NSW GOVERNMENT

Manly Hydraulics Laboratory

NSW WATER LEVEL
FREQUENCY DISTRIBUTION ANALYSIS

Report MHL2971
February 2025

Prepared for:

Department of Climate Change, Energy, the Environment and Water-Conservation Programs, Heritage and Regulation

Cover photograph: Dunmore Bridge, Paterson River. Image by Ben Cox

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Foreword

Manly Hydraulics Laboratory (MHL) on behalf of the Department of Climate Change, Energy, the Environment and Water - Conservation Programs, Heritage and Regulation (DCCEEW CPHR) monitors water levels along the NSW coast through an extensive data network. MHL is a business unit within the Water Group of DCCEEW.

The NSW coastal monitoring database has been developed to support the department's programs associated with coastal, floodplain and estuary management. MHL operates and maintains the coastal data network with an annual service level agreement to DCCEEW CPHR.

MHL was commissioned by DCCEEW CPHR to update and expand the water level frequency distribution analysis presented in MHL Report 2100 (MHL, 2014). The primary purpose is to extend the analysis from 2013 to 2023 and improve the frequency distribution figure plotting technique for easier interpretation by users.

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Executive summary

MHL manages 247 long term flood, estuary and ocean tide water level monitoring stations. This report presents the frequency distribution analysis for these stations.

The report presents the following:

- a review of available stations and datasets for accuracy and validity for analysis
- statistical analysis of all available water level stations for the complete record of available data up to and including June 2022
- frequency distribution analysis of available water level data for each station (detrended monitored data), together with the highest and lowest recorded water levels (actual monitored data)
- compilation and presentation of results in table format
- graphical display of frequency distribution analysis
- graphical display of cumulative frequency of water level observations
- daily exceedance levels using detrended datasets
- brief discussion on the methodology, results and recommendations for further analysis.

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1 Introduction

1.1 Background

In 2014 MHL published MHL report 2100 (MHL, 2014), which analysed the frequencies of water level observations along the NSW coast. The purpose was to understand the variations in tidal forcing functions along with flooding anomalies over an entire water level record.

Understanding the magnitude and recurrence of water levels outside of the tidal range is an important component of risk analysis, protection strategy, design and resource management for the NSW coast. The need for this type of research has been highlighted in recent years with devastating floods affecting many Australians. A comprehensive knowledge of the varying water level responses along NSW's coastal estuaries can be gained from data supplied by the extensive network of water level recording stations that MHL manages.

This report provides a frequency distribution analysis of recorded water levels at long term stations up to June 2022 and provides the basis for an analysis of the recurrence of extreme water levels on the NSW coast.

1.2 Study objectives

The main objectives of this study includes:

1. Review and quality assurance of available data from NSW water level recording stations, up to and including June 2022.
2. Description of an appropriate frequency distribution method.
3. Calculation of frequency distribution for all water level stations including percentage exceedance.
4. Graphical display of frequency distribution analysis and daily exceedance plots.
5. Prepare automated processes for analysis and plot production to make future updates efficient and repeatable.

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2 Frequency distribution analysis method

2.1 Water level station types

This report includes data from various ocean tide, estuary and flood water level stations. Refer to the *Station Details* on the MHL website for an explanation of each station's hydraulic conditions. Short term water level stations have been excluded from frequency distribution analysis due to the limited record.

Bathymetry and hydraulic drivers will influence each station and have different effects on its water level distributions. All data is presented in Australian Height Datum (AHD 1971) unless identified otherwise. Please note that the water levels only approximately relate to AHD 1971 or other specified datum. Users should independently verify the suitability of this data for their particular use.

2.1.1 Ocean tide stations

MHL has 19 coastal and 4 offshore ocean tide stations. These stations are located in bays, harbours, at river entrances and offshore of major rivers. These stations represent the best ocean conditions in the nearshore, where flooding anomalies are least present in most cases. Ocean tide water levels are recorded in local port datums, however in this report are presented and reported in AHD (1971) for consistency with the flood and estuary stations, except for Lord Howe Island where AHD (1971) is not available.

Offshore stations have not been included in this report due to having datums relating to mean sea level, which can be variable.

2.1.2 Estuary stations

Estuary stations are characterised by the mixing of fresh and salt water and are affected by tides and flooding from the upper river reaches. Estuaries in NSW vary in their shape and size, ranging from large coastal embayments and drowned river valleys such as Port Stephens, to coastal lakes such as Lake Macquarie and Wallis Lake.

Estuaries also include intermittently closed or open (coastal) lakes and lagoons (ICOLLS) such as Cockrone Lake and Tabourie Lake. When closed, ICOLLS are more heavily influenced by flood waters than when open.

Estuary systems often have a smaller tidal range than ocean tide stations, where large flood events can dominate the tidal signal for long durations of time before returning to a mean level.

2.1.3 Flood stations

These stations are characterised by their position along the river and the effect rainfall has on the river conditions. These stations can be tidally influenced or non-tidal such as sites upstream of a weir or floodgate. These stations are the most sensitive to flooding and will have the greatest flood peaks in the analysis. Flood stations display the most variability in

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water level distributions as a result.

Management of flood stations play an important role in providing warnings to local communities across the state and providing inputs to the flood modelling process.

2.2 Interval method of frequency distribution analysis

This report uses the same frequency distribution analysis technique performed in MHL 2100 (MHL, 2014) using the method derived by Pilgrim and Doran (Pilgrim, 1999) defined below[1]. Frequency analysis is based on interval classes of 15-minute water levels recorded since the inception of each MHL operated station to 30 June 2022. Please note that the "Start of Record" cited in Appendix A is the start date of analysis and may differ from the actual station start date due to the data being inappropriate for analysis. Years where less than 50% of the data is captured are excluded from analysis.

The interval method categorises recorded water levels from a station into bins to then calculate their frequency of occurrence. To improve the resolution of the results presented in MHL report 2100 (MHL, 2014) the bin size has been decreased from 0.1m to 0.02m for this analysis.

Definition:

$$F_i = F(a_i < x \leq b_i) = m_i/n$$

where
- F_i = frequency of data in the i'th interval
- x = data point
- k = interval
- i = interval serial number
- a_i = lower limit of interval
- b_i = upper limit of interval
- n = total number of data points
- m_i = total number of data points in interval

The sum of the frequency of all intervals is equal to one, as shown below:

$$\sum_{i=1}^{k} F_i = \Sigma\, m_i /n = n/n = 1$$

Frequency of Exceedance: $F(x > a_i) = m_i/n$

2.3 Tidal planes

In contrast to MHL report 2100 (2014), the tidal planes of Mean High Water (MHW), Mean Sea Level (MSL) and Mean Low Water (MLW) have not been provided with the frequency of water levels as part of this analysis to reduce duplication. If desired, these tidal planes can

[1] The frequency distribution method used in this report is based on a method developed for United States flood data which is less variable than Australian flood data (Pilgrim, 1999).

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be compared with the frequency analysis results using the 'Tidal Planes' tab on the individual station pages on the MHL website.

2.4 Detrending

Detrending involves removal of trends from a non-stationary (e.g. sea-level rise impacted) data set to allow comparison over time. The resulting detrended data better identifies cyclical patterns as well as variability around the extremes. This detrending was applied to all data in this report, except for the highest and lowest summary statistics, which is based on actual monitored data.

For this report detrending was performed using a simple linear regression centred around the end date of 30 June 2022 (equation below). A simple linear regression is first performed on the whole timeseries. For each data point, then, an offset is calculated based on the linear prediction at that point in relation to the prediction at the end of the timeseries. This offset is then added to each corresponding point to move all preceding data 'up' to account for any trends due to sea-level rise or other factors.

$$\bar{x}_i = x_i + \hat{f}(x_n) - \hat{f}(x_i)$$

where $\bar{x}_i$ = detrended i'th data point
x_i = i'th data point
n = total number of data points
$\hat{f}(x)$ = linear prediction at point x

Please note that detrending was applied consistently across all stations and individual station hydraulic characteristics and changes over time was not adjusted for. In particular, the variable hydraulic characteristics of ICOLLs can impact the calculated linear regression and can be highly dependent on the selected period of analysis.

2.5 Plotting and presentation

Another goal for this updated analysis was to produce the resulting tables and figures in an automated fashion. This helps to reduce manual processing time and cost and facilitates annual updates to the results as more observations are recorded. The analysis and presentation code has been packaged into a python module, which utilises the *matplotlib* library to produce the plots used in this report's figures. Additionally, tabulated outputs of all the plots and tables have been made available via CSV format online on the MHL website. These can be found presented as plots and tables on the *Frequency Distribution* tab in each water level station page, navigable from the homepage.

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3 Results

Results of the frequency distribution analysis are presented from north to south in Appendix A . Each catchment section in NSW is displayed with a location map showing the monitoring stations. The results published per water level station include:

- Table presentation for each station:
    - water level with minimum[2] increment of 0.1m covering maximum to minimum recorded water levels
    - normalised frequency of each recorded water level
    - number of observations
    - percentage exceedance.
- station metadata: Australian Water Resources Council (AWRC) station number, station name, datum, geographical co-ordinates
- summary statistics: logging interval (minutes), start of station record, the dates and level of highest and lowest monitored water level (not detrended)
- distribution of water levels plot: The graphical representation of percentage of observations in each 0.02m bin over the station record length
- cumulative exceedance plot: A log scale plot is used to show the frequent water levels recorded at a station and the infrequent; which generally relates to anomalies such as flooding.
- daily exceedance plot: The exceedance of daily minimum, mean and maximum water level values presented as average days exceeded per year.

Further detailed station information can be found in the *Station Details* tab for each station on the MHL website. The water level record for each station (including periods of data loss) can be found in annual summary reports located on the MHL publications page and quality controlled time series data can be requested by contacting data-request@mhl.nsw.gov.au.

[2] Tabulated water level increments will vary for stations with large flood ranges to enable presentation as one table.

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4 Discussion

4.1 Physical influences on frequency distribution

Updates to the frequency distribution analysis and presentation from the MHL report 2100 (MHL, 2014) include:

- distribution of water levels is presented as a percentage of observations as opposed to number of data points
- water level axis on distribution plots is no longer fixed and include highest and lowest recordings
- cumulative exceedance plots are now presented as the percentage of time the water level is exceeded on a log scale
- daily exceedance plots provide a maximum, mean and minimum value
- all results, with the exception of highest and lowest summary statistics, are based on detrended datasets.

4.1.1 Ocean tide stations

The frequency distribution plot for ocean tide stations exhibit a bimodal distribution due to the semi-diurnal tidal signal prevalent in NSW waters. The finer resolution of bins and increased number of observations accentuates this feature,

Figure 4-1 provides a comparison of the Sydney ocean tide station in the previous and current analysis to highlight this.

Ocean tide station daily exceedance curves are the most consistent between maximum, minimum and mean due to a lack of flooding anomalies at these locations.

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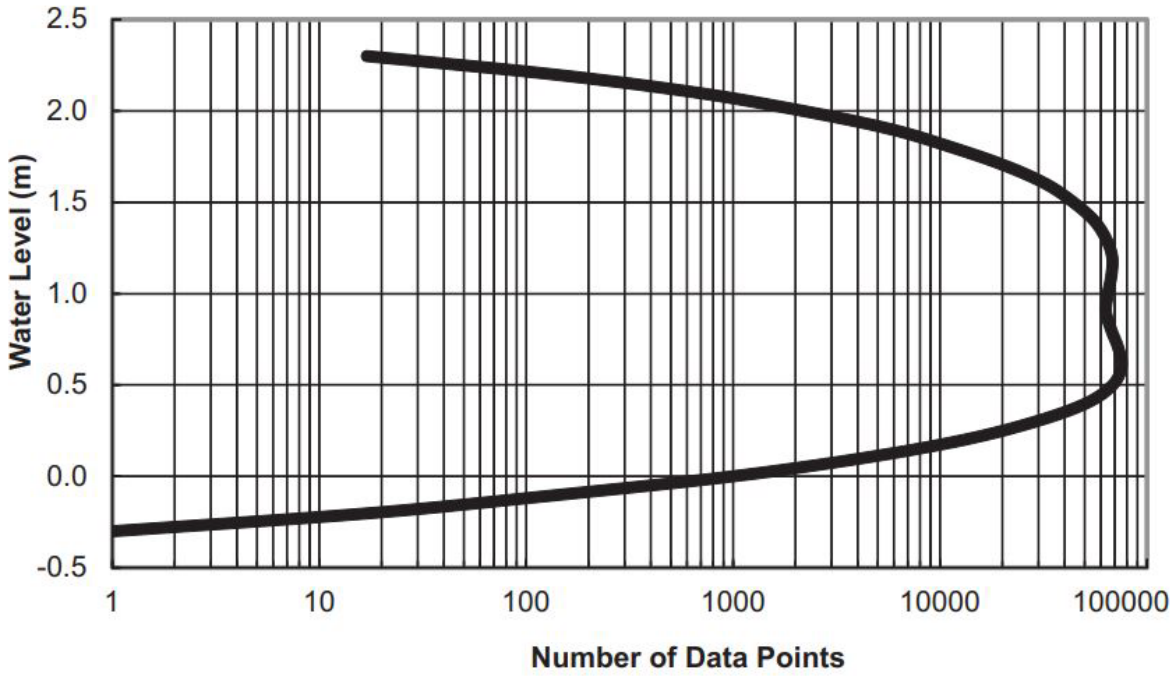

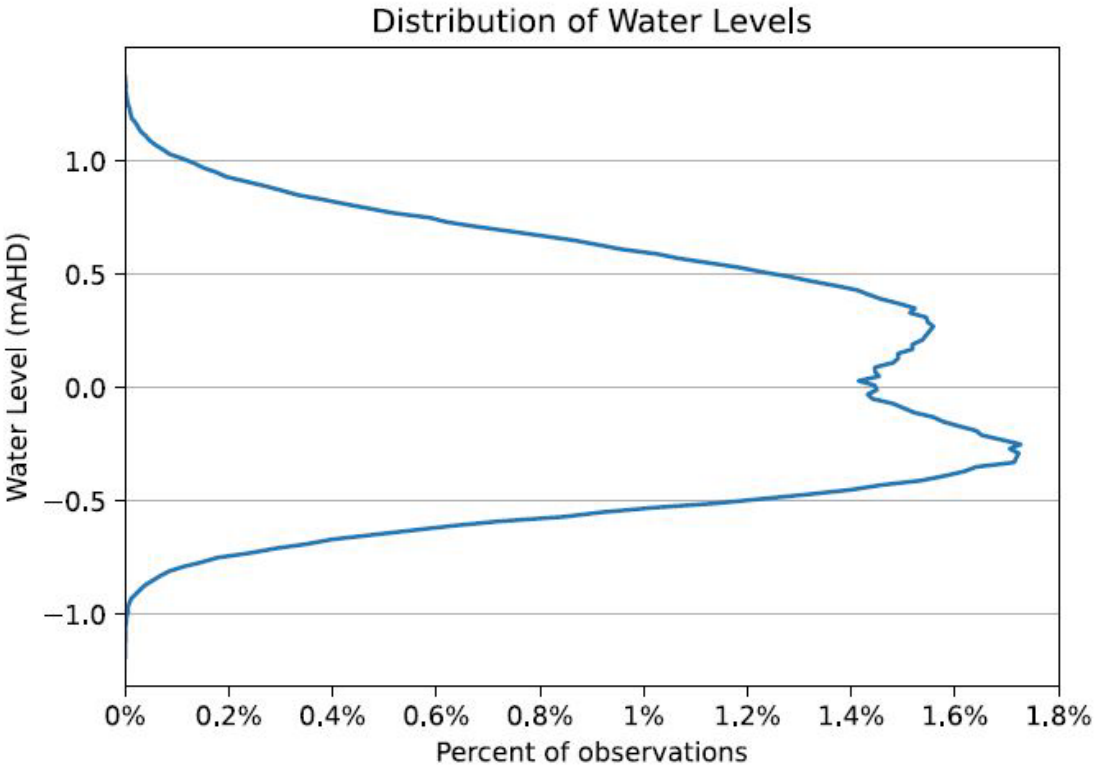

Figure 4-1 Sydney ocean tide station comparison of water level distributions plotting technique (upper image is an extract from MHL report 2100)

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4.1.2 Estuary stations

Estuary stations display predominately unimodal distributions centred around their mean level. Often estuaries are governed by entrance morphology and may experience elevated water levels even during low intensity flood events.

Stations with no tidal influence or small tidal ranges display concentrated daily exceedance plots as a result. Flooding events at these locations create a large range of water level observations that are outliers. The log plot of cumulative exceedance allows users to compare the dominant range to these outliers.

Permanent coastal lakes with trained entrances display bimodal water level distributions consistent with a semi-diurnal tidal signal. A historical water level plot of the Lake Illawarra Entrance (214417) station is provided in **Figure 4-2** as an example: this system previously operated as an ICOLL before having permanent training walls constructed at the entrance in 2007. This permanent opening has dramatically changed the mean tidal range and overall hydrodynamics of Lake Illawarra with the effects of continued entrance scouring.

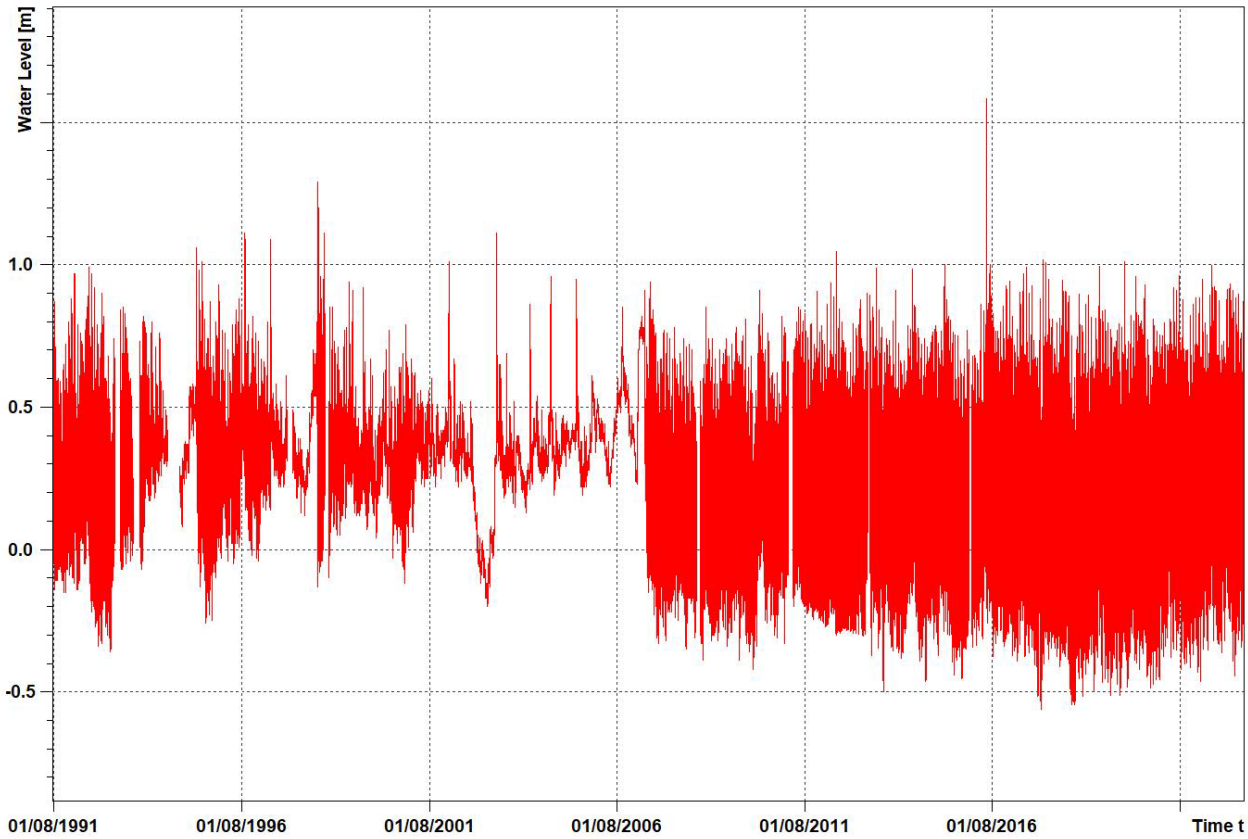

Figure 4-2 Lake Illawarra Entrance (214417) station historical water levels

The overall observed range has increased from 1.7 m (1.3m to -0.4m) in MHL 2100 (MHL, 2014) to 2.2m (1.6 to -0.6m). A comparison of the frequency distribution tables is presented in **Table 4-1** and graphically shown in **Figure 4-3**.The change in normalised observation frequency shows the water level observations disbursing over the tidal range with a large-scale decrease around the mean levels where the lake entrance was previously closed. The overall tidal range was also smaller in the past.

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Table 4-1 Lake Illawarra Entrance (214417) variance in water level distribution from 2013 to 2022

Water level observation (m AHD1971)	Normalised frequency up until 2013	Normalised frequency up until 2022	Variance in normalised frequency (%)
1.6		0	0.000%
1.5		0.00001	0.001%
1.4		0	0.000%
1.3	0	0.00001	0.001%
1.2	0.00002	0.00004	0.002%
1.1	0.00032	0.00039	0.007%
1	0.00077	0.00141	0.064%
0.9	0.00268	0.00339	0.071%
0.8	0.01188	0.01416	0.228%
0.7	0.01404	0.02337	0.933%
0.6	0.03749	0.05888	2.139%
0.5	0.08953	0.11815	2.862%
0.4	0.19487	0.19435	-0.052%
0.3	0.26197	0.17496	-8.701%
0.2	0.13972	0.10768	-3.204%
0.1	0.08796	0.09876	1.080%
0	0.07466	0.0902	1.554%
-0.1	0.05586	0.06774	1.188%
-0.2	0.02391	0.03508	1.117%
-0.3	0.00399	0.00932	0.533%
-0.4	0.00031	0.00194	0.163%
-0.5		0.00016	0.016%
-0.6		0	0.000%

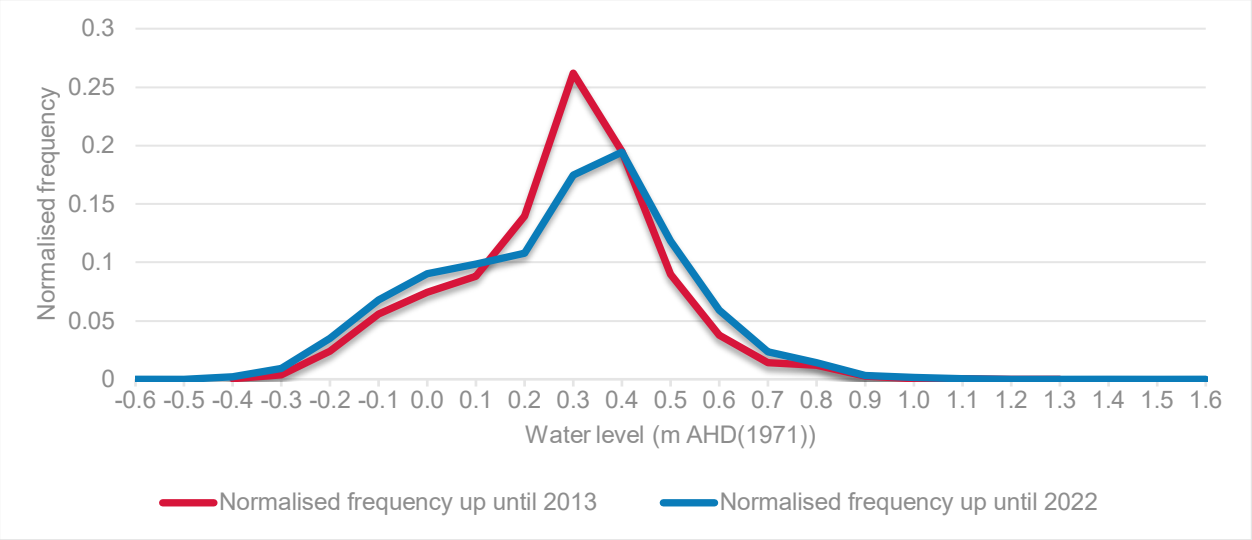

Figure 4-3 Lake Illawarra Entrance (214417) water level normalised frequency plot from 2013 to 2022

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4.1.3 Flood stations

Flood station water level distributions are governed by their location along the river. Stations located closer to the river entrance display much more tidally-dominated distributions, with tidal range decreasing and mean-prominence increasing further up the river.

Figure 4-4 displays observation distributions for three stations along the Clarence River, demonstrating how distribution shapes can differ based on location and river bathymetry. The three sites are as follows with map provided in Appendix A39:

- Maclean: 25.6km from ocean entrance
- Lawrence: 36.7km from ocean entrance
- Ulmarra: 54.9km from ocean entrance

The observed water level range drops from 6.1m to 4.9m to 3.9 moving from the furthest upstream gauge down the river. This is to be expected with flooding effects generally amplified upstream where water may have more limited floodplain to disperse over. Each gauge has a similar lowest recorded water level showing the effect of variability of floods as opposed to astronomic forcing functions on water levels.

The number of observations over the tidal range significantly increase as the flood gauge moves closer to the ocean entrance. This is not linear however as river bathymetry effect the overall tidal range. The distance from Lawrence to Ulmarra is approximately 7km further than the distance from Lawrence to Maclean however the disbursement of highest water level observations is more condensed between the upstream stations as shown in **Figure 4-4**. River bathymetry is also dynamic with scouring after large scale flooding events creating an alternate mean tidal range (MHL, 2024).

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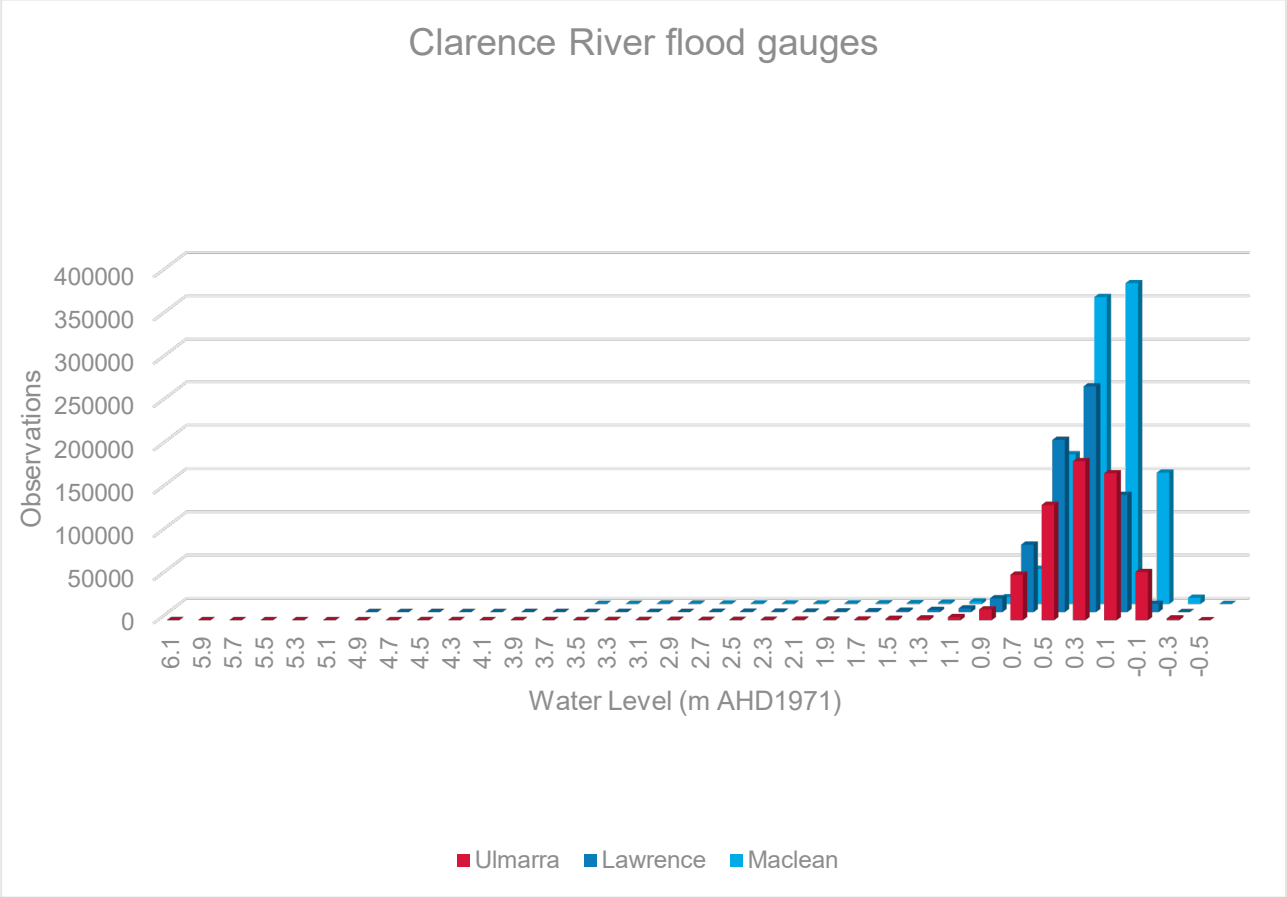

Figure 4-4 Comparison of water level observations of three different flood stations on the Clarence River

4.1.4 Appended water level records

During the history of a water level station, the monitoring point may need to be relocated due to environmental conditions not being conducive to continued monitoring e.g. siltation, sand bank formation, river bank destabilisation etc; aging or unsafe infrastructure e.g. jetty where the station is located is decommissioned; or improved water level monitoring technique e.g. submerged water level sensing on the river bank transferred to non-contact radar sensing on a nearby bridge.

In cases where the water levels are comparative between locations, the data has been concatenated to create the longest possible continuous water level time series for a location. The frequency distribution analysis results are referenced to the current active location. **Table 4-2** summarises stations where the monitoring point has been moved and the data has been concatenated.

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Table 4-2 Concatenated water level time series

Station name	AWRC #	Comments
Tweed Entrance South	201472	Station relocated from the northern side of the entrance (AWRC: 201431) to the southern side of Tweed River entrance in May 2014.
Ballina Breakwall	203425	Station relocated from Ballina (AWRC: 203421) in May 2011.
Stuarts Island Downstream	205466	Station relocated from Stuarts Island (AWRC: 204465) to Stuarts Island Downstream in Nov 2008.
Aldavilla Downstream	206459	Station relocated from Euroka Upstream (AWRC: 206458) to Aldavilla Downstream in Dec 2011.
Tuncurry Downstream	209401D	Station relocated from Tuncurry (AWRC: 209401) in Jun 2016.
Pacific Palms Wharf	209406	Station relocated from Tiona (AWRC: 209403) in Oct 2013.
Shoal Bay	209474	Station relocated from Tomaree (AWRC: 209474) in Apr 2014.
Koolewong	2124301	Station relocated from Koolewong (AWRC: 212422) in Jul 2016.
Ocean Street Bridge	213408D	Station was relocated from Narrabeen Caravan Park (AWRC: 213408) in May 2017.
Bundeena	214452	Station relocated from Port Hacking (AWRC: 214451) in Dec 2014.
Cudgeree Bay	2144101	Station relocated from Cudgeree Bay (AWRC: 214416) in Aug 2020.
Little Lake Entrance	214467	Station relocated from Little Lake (AWRC: 214466) in May 2014.
Gradys Caravan Park	215430	Station relocated from Gradys (AWRC: 215452) in Oct 2010.
Lake Conjola Downstream	216420D	Station relocated from middle of Lake Conjola (AWRC: 216420) to the bank in Oct 2010.
Wonboyn Lake	220452	Station relocated from Agnew Wharf (AWRC: 220425) in Oct 2018.

4.1.5 Inversion of water level distribution

Appendix A has cases where sudden inverse spikes occur around the -0.1 to 0.1m bins in the frequency distribution plot. Referencing Newports Creek (205460) and Boambee (205438) in Coffs Harbour, NSW there are three water level stations (Appendix A63, A64, A65) which are in the same catchment. Examining the historical water level of Newports Creek (A63) in **Figure 4-5** there is a noticeable change in the tidal range in 2009 due to a hydrological effect possibly scouring after events which changes the tidal range. From the annual harmonic analysis results (MHL, 2023), all three stations show an increase in average annual tidal range after 2009 (**Table 4-3**).

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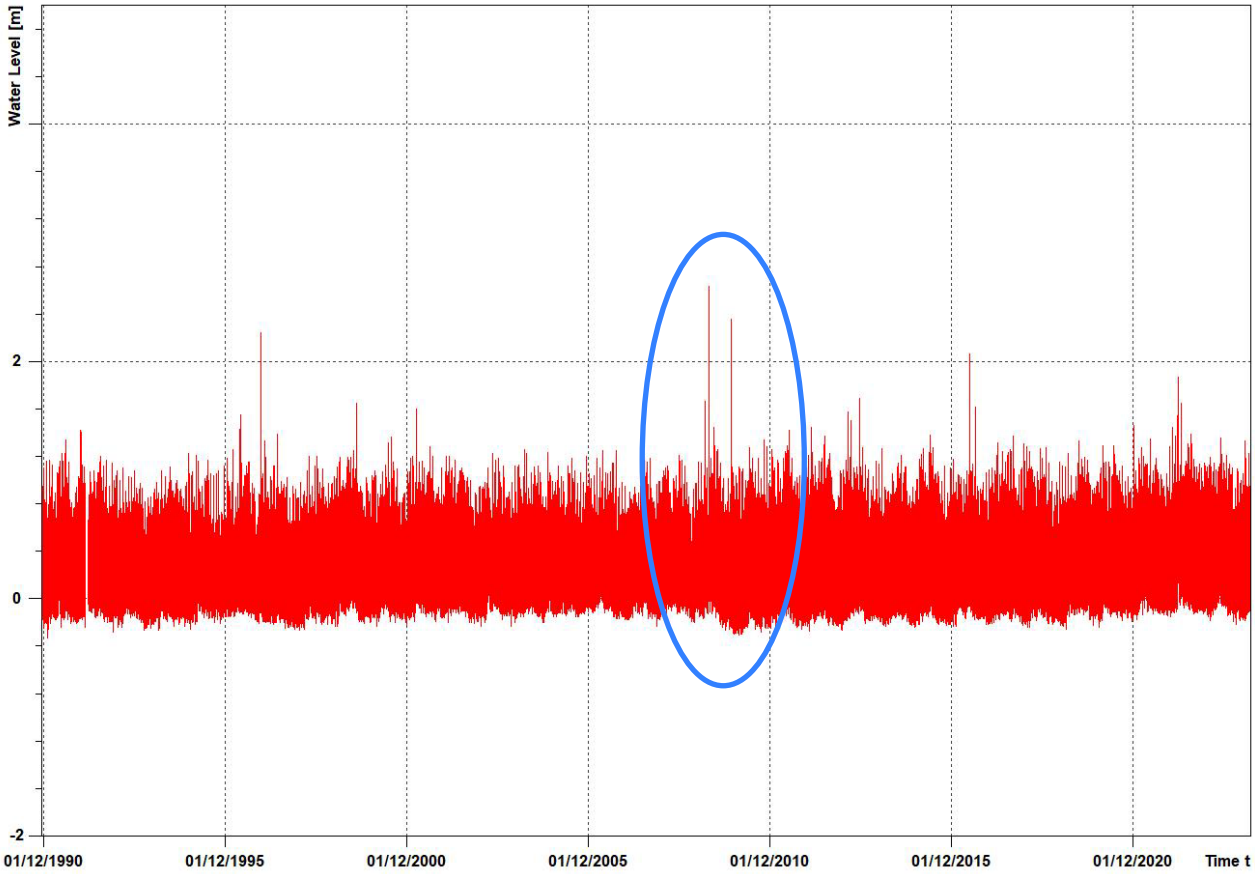

Figure 4-5 Newports Creek (205460) water level record indicating a change in tidal range after 2009

Table 4-3 Newports and Boambee Creek catchment tidal range changes

Station name	AWRC #	Average yearly tidal range 2001-2009 (m)	Average yearly tidal range 2009-2022 (m)	Range increase (m)
Newports Creek	205460	0.510	0.627	0.117
Boambee	205438	0.544	0.659	0.115
Boambee Entrance	205475	1.430	1.522	0.092

By focusing in on a single daily semi diurnal tide it is possible to explain the consistent inversion amongst the three related stations. The simplified semi diurnal tide generally consists of two high tides and two low tides per day, as we are using the AHD 1971 datum for reference, the 0.0m point is crossed 4 times per day. This has the highest frequency of occurrence but also correlates with the fastest tidal movement as the curve always crosses near the asymptote.

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If we have determined that there has been an increase in tidal range since 2009 in these three gauges, mathematically we can see the effects of changing the amplitude on a fixed period for a sine curve in **Figure 4-6**. The increased amplitude essentially increases the asymptotes slope and shortens the potential time a water level can be recorded in the -0.1 to 0.1m frequency bins. This change occurring mid record length then creates the sharp inversion of the peak of the distribution curve as there are fewer frequencies recorded.

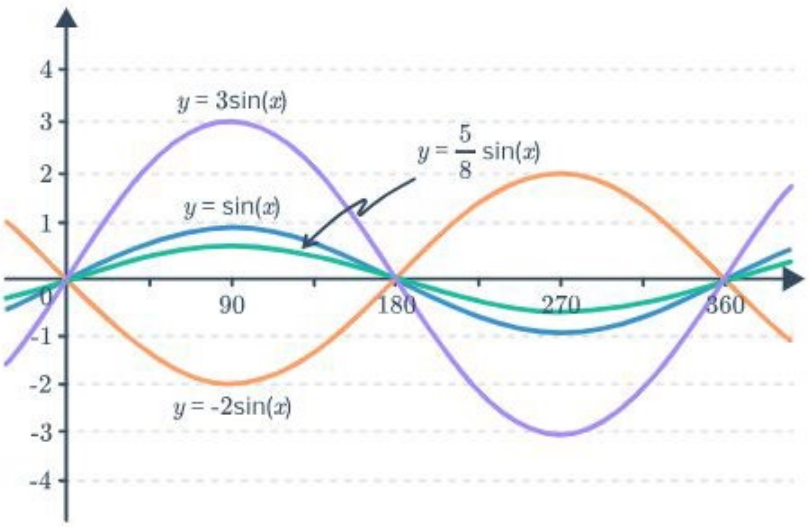

Figure 4-6 Effects of changing amplitude of a sine curve on a fixed period

Gradual changes in tidal ranges over a record length can also produce a more gradual inversion of the frequency distribution curve as seen at Swansea Channel. Tidal gauging exercises conducted in 1996 and 2019 indicate an increase in tidal range, velocity and flow in Swansea Channel (MHL, 2022).

4.2 Limitations and recommendations

Data for each station should be interpreted for that station based on the method of collection and the characteristics of the surrounding area. This would include being aware of any difference in datums used at each station, the length of the data set and the physical characteristics and hydrology at that station.

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4.2.1 Increased record length

The water level data record has been extended by 9 years (July 2013 to June 2022) since the previous frequency distribution report and therefore the analysis includes more flood and drought conditions, and water level behaviours during opening and closing of estuary entrances for the various locations. Longer record length has resulted in more stations being eligible for analysis.

Further work that is recommended is the inclusion of historical flood data. This is when a flood has been recorded prior to the digitised record for example the 1955 Hunter Valley flood. Such floods can provide valuable information however it is important to determine the reliability of such records.

4.2.2 Flood duration

Flood duration looks at how long a flooding event lasts over a certain threshold point or if a single event had multiple peaks. This report does not consider the duration of specific flood events however other MHL publications such as the Flood Reports do document event specific information.

4.2.3 Climate change and population growth

A limitation of this type of analysis is that it does not take into account any change in the catchment population, climate change or recording conditions during which the data was obtained. Population growth patterns in coastal country areas and coastal cities is at or above the national average growth rate in 2020-21 (Autralian Government, 2022).

The detrending described in section 2.4 has been used to account for changes in sea levels and water level trends within estuaries over period of record. A previous report done on extreme ocean water levels (MHL, 2018) has looked at extrapolating out ocean water levels to forecasted heights that include sea level rise for ocean tide sites. This report offers a more comprehensive look along all NSW estuaries with no level forecasting but the opportunity for continued analysis annually of water levels.

These results should not be used to plan for future floods. Please refer to the NSW Planning and NSW DCCEEW websites for more information about risk based approaches for flood-prone land.

4.2.4 Automated processing

As part of this project, automated processes have been created for detrending datasets, frequency distribution analysis and production of plots and tables. It is recommended that updates to the frequency distribution results are made on an annual basis and published to the public MHL website.

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5 Conclusion

This report presents frequency distribution analysis for a range of ocean, estuary and flood stations managed by MHL from the start of record to June 2022.

The results in this report include water level distribution, cumulative exceedance and days exceeded per year. All frequency distribution results are based on detrended data sets. These results can be found presented as plots and tables on the *Frequency Distribution* tab in each water level station page, navigable from the MHL website.

As part of this project, automated processes have been created for detrending datasets, frequency distribution analysis and production of plots and tables. This will enable time efficient and repeatable processes with reduced manual data handling errors for future updates and presentation on the web.

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Appendix A Frequency distribution results

Results of the frequency distribution analysis along with station maps for relevant NSW river basins are presented from north to south in Tables A1 to A284

Station	AWRC	Latitude	Longitude	Table/figure no.
Station Locations Tweed River Region				A1
Tweed River at Tweed Entrance South	201472	-28.1706	153.5512	A2
Broadwater at Cobaki	201448	-28.1766	153.5027	A3
Terranora Inlet at Dry Dock	201428	-28.1937	153.5167	A4
Terranora Inlet at Terranora	201447	-28.2014	153.4988	A5
Tweed River at Letitia 2A	201429	-28.183	153.5533	A6
Tweed River at Barneys Point	201426	-28.2254	153.5515	A7
Tweed River at Tumbulgum	201432	-28.2772	153.4606	A8
Tweed River at North Murwillumbah	201420	-28.3274	153.4012	A9
Tweed River at Bray Park Weir	201455	-28.3454	153.3695	A10
Tweed River at Murwillumbah Bridge	201465	-28.3284	153.4001	A11
Rous River at Kynnumboon	201422	-28.3145	153.3894	A12
Cudgen Lake at Bogangar	202416	-28.3271	153.558	A13
Cudgen Creek at Kingscliff	202418	-28.2597	153.5818	A14
Cudgen Creek at Kingscliff Upstream	202434	-28.2652	153.5815	A15
Mooball Creek at Tweed Coast Road	202435	-28.3919	153.5665	A16
Station Locations Brunswick River Region				A17
Brunswick River at Brunswick Heads	202403	-28.537	153.5528	A18
Marshalls Creek at Orana Bridge	202475	-28.5158	153.5479	A19
Marshalls Creek at Billinudgel	202400	-28.5016	153.5268	A20
Brunswick River at Mullumbimby	202402	-28.55	153.4966	A21
Station Locations Richmond River Region				A22
Richmond River at Ballina Breakwall	203425	-28.8754	153.5844	A23
Lennox Head at Lake Ainsworth	203455	-28.7808	153.5928	A24
Richmond River at Missingham Bridge	203465	-28.8687	153.5759	A25
Richmond River at Byrnes Point	203461	-28.8738	153.5267	A26
Richmond River at Wardell	203468	-28.9534	153.4647	A27
Richmond River at Woodburn	203412	-29.071	153.3419	A28
Evans River at Evans River Fishing Co-op	203462	-29.1224	153.4343	A29
Evans River at Iron Gates	203475	-29.1237	153.4081	A30
Tucombil Canal at Tucombil Highway Bridge	203480	-29.0846	153.3386	A31
Rocky Mouth Creek at Rocky Mouth Creek	203432	-29.096	153.3263	A32
Richmond River at Bungawalbin	203450	-29.0335	153.2776	A33
Bungawalbin Creek at Bungawalbin Creek	2034133	-29.1399	153.1703	A34
Richmond River at Coraki	203403	-28.9838	153.2872	A35
Wilsons River at East Gundurimba	203427	-28.8457	153.2669	A36
Leycester Creek at Tuncester	203443	-28.7958	153.2402	A37

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Station	AWRC	Latitude	Longitude	Table/figure no.
Wilsons River at Woodlawn College	203402	-28.7854	153.3025	A38
Station Locations Clarence River Region				A39
Clarence River at Yamba	204454	-29.429	153.3621	A40
Clarence River at Oyster Channel	204451	-29.4307	153.3141	A41
Clarence River at Maclean	204410	-29.456	153.1959	A42
Clarence River at Lawrence	204453	-29.497	153.1058	A43
Clarence River at Tyndale	204465	-29.5666	153.1299	A44
Clarence River at The Avenue Upstream	204475	-29.703	153.0739	A45
Clarence River at The Avenue Downstream	204476	-29.7028	153.0742	A46
Clarence River at Brushgrove	204406	-29.5679	153.0775	A47
Clarence River at Ulmarra	204480	-29.631	153.0268	A48
Clarence River at Grafton	204400	-29.6938	152.9317	A49
Clarence River at Rogans Bridge	204414	-29.6192	152.8845	A50
Palmers Channel at Palmers Island Bridge	204426	-29.4321	153.2658	A51
Lake Wooloweyah at Lake Wooloweyah	204485	-29.4776	153.3418	A52
Station Locations Woolgoolga Region				A53
Wooli River at Wooli Entrance	205462	-29.8903	153.266	A54
Wooli River at Wooli Caravan Park	205463	-29.8501	153.2542	A55
Corindi River at Red Rock	205450	-29.9831	153.2272	A56
Woolgoolga Lake at Woolgoolga Lake	205455	-30.1057	153.1982	A57
Woolgoolga Creek at Woolgoolga	205441	-30.1169	153.1638	A58
Moonee Creek at Moonee Creek	205435	-30.2008	153.1554	A59
Station Locations Coffs Harbour Region				A60
Tasman Sea at Coffs Harbour	205470	-30.3029	153.1461	A61
Coffs Creek at Coffs Creek Highway Bridge	205439	-30.2932	153.1161	A62
Newports Creek at Newports Creek	205460	-30.3209	153.1042	A63
Boambee Creek at Boambee	205438	-30.3376	153.0815	A64
Boambee Creek at Boambee Entrance	205475	-30.3532	153.103	A65
Station Locations Bellinger River Region				A66
Bonville Creek at Bonville	205480	-30.3685	153.0414	A67
Bellinger River at Repton	205403	-30.4422	153.0246	A68
Bellinger River at Bellingen Bridge	205442	-30.4511	152.8993	A69
Kalang River at Urunga	205407	-30.4909	153.0128	A70
Kalang River at Upstream Newry Island	205458	-30.5053	152.9788	A71
Kalang River at Kooroowi	205440	-30.4652	152.8226	A72
Station Locations Nambucca River Region				A73
Deep Creek at Deep Creek	205485	-30.6117	153.0026	A74
Nambucca River at Stuarts Island Downstream	205466	-30.6556	152.995	A75
Nambucca River at Macksville	205416	-30.7061	152.9204	A76
Taylors Arm at Utungun	205414	-30.7297	152.8517	A77
Nambucca River at Bowraville Downstream	205425	-30.6544	152.8619	A78
Warrell Creek at Warrell Creek	205490	-30.7322	152.9163	A79
Station Locations Macleay River Region				A80

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Station	AWRC	Latitude	Longitude	Table/figure no.
Borringala Creek at Borringala Creek	206450	-30.8586	152.9268	A81
Macleay River at South West Rocks	206456	-30.8901	153.0171	A82
Korogoro Creek at Hat Head	206465	-31.0578	153.0572	A83
Saltwater Lagoon at Saltwater Lagoon	206460	-30.8898	153.064	A84
Macleay River at Smithtown	206406	-31.0158	152.9472	A85
Macleay River at Kempsey	206402	-31.0815	152.8442	A86
Macleay River at Aldavilla Downstream	206459	-31.0825	152.7832	A87
Killick Creek at Crescent Head	207452	-31.1874	152.9759	A88
Station Locations Hastings River Region				A89
Port Macquarie at Port Macquarie	207420	-31.4268	152.9111	A90
Maria River at Green Valley	207406	-31.2736	152.8573	A91
Wilson River at Telegraph Point	207415	-31.3236	152.8012	A92
Hastings River at Settlement Point	207418	-31.4068	152.9015	A93
Hastings River at Dennis Bridge Downstream	207444	-31.4074	152.8211	A94
Hastings River at Wauchope Railway Bridge	207401	-31.4527	152.7368	A95
Station Locations Lord Howe				A96
Tasman Sea at Lord Howe Island	240402	-31.5236	159.0582	A97
Station Locations Camden Haven Region				A98
Lake Cathie at Lake Cathie	207441	-31.5478	152.8542	A99
Camden Haven River at North Haven	207423	-31.6404	152.8221	A100
Stingray Creek at West Haven	207437	-31.6371	152.7961	A101
Camden Haven River at Laurieton	207425	-31.6554	152.7988	A102
Camden Haven River at Logans Crossing	207428	-31.6141	152.6933	A103
Queens Lake at Lakewood	207475	-31.6298	152.7623	A104
Watson Taylors Lake at Watson Taylors Lake	207480	-31.7154	152.7422	A105
Tasman Sea at Crowdy Head Boat Harbour	208471	-31.8387	152.75	A106
Station Locations Manning River Region				A107
Manning River at Harrington	208425	-31.8749	152.6855	A108
Manning River at Croki	208404	-31.8771	152.5939	A109
Manning River at Dumaresq Island	208430	-31.9006	152.517	A110
Manning River at Taree	208410	-31.917	152.4572	A111
Manning River at Wingham	208400	-31.8753	152.3716	A112
Manning River at Mount George	208440	-31.8826	152.146	A113
Dingo Creek at Ashlea Bridge Downstream	208436	-31.8437	152.3011	A114
Manning River at Farquhar Inlet	208415	-31.9411	152.5953	A115
Station Locations Great Lakes Region				A116
Wallis Lake Entrance at Forster	209402	-32.174	152.5082	A117
Wallamba River at Tuncurry Downstream	209401D	-32.159	152.4736	A118
Wallamba River at Nabiac	209404	-32.1167	152.3304	A119
Wallis Lakes at Pacific Palms Wharf	209406	-32.333	152.5261	A120
Smiths Lake at Tarbuck Bay	209465	-32.3748	152.4849	A121
Myall River at Bulahdelah	209460	-32.4139	152.2071	A122
Myall River at Bombah Point	209475	-32.5056	152.3046	A123

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Station	AWRC	Latitude	Longitude	Table/figure no.
Station Locations Port Stephens Region				A124
Port Stephens at Shoal Bay	209474	-32.7197	152.1757	A125
Myall River at Tea Gardens	209480	-32.6689	152.1652	A126
Karuah River at Karuah	209485	-32.6549	151.97	A127
Karuah River at Mallabulla Point	209461	-32.7209	152.0158	A128
Station Locations Hunter River Region				A129
Hunter River at Stockton Bridge	210456	-32.8849	151.7838	A130
Hunter River at Hexham Bridge	210448	-32.8177	151.6814	A131
Williams River at Raymond Terrace	210452	-32.7534	151.7442	A132
Williams River at Seaham	210462	-32.6634	151.7324	A133
Hunter River at Green Rocks	210432	-32.7277	151.6923	A134
Hunter River at Morpeth	210430	-32.724	151.6297	A135
Hunter River at McKimms Corner	210455	-32.7195	151.5935	A136
Hunter River at Belmore Bridge	210458	-32.7295	151.5539	A137
Hunter River at Bolwarra Downstream	210451	-32.7076	151.566	A138
Hunter River at Oakhampton Railway Bridge	210475	-32.6952	151.5691	A139
Station Locations Paterson River Region				A140
Paterson River at Hinton Bridge	210410	-32.7139	151.6482	A141
Paterson River at Dunmore	210409	-32.6807	151.6057	A142
Paterson River at Paterson Railway Bridge	210406	-32.5983	151.6179	A143
Paterson River at Gostwyck	210402	-32.565	151.6055	A144
Station Locations Wallis Creek Region				A145
Wallis Creek at Wallis Creek Upstream	210428	-32.7372	151.5743	A146
Wallis Creek at Wallis Creek Downstream	210457	-32.7368	151.5745	A147
Wallis Creek at Louth Park	210453	-32.7662	151.54	A148
Station Locations Lake Macquarie Region				A149
Lake Macquarie at Marmong Point	211460	-32.9774	151.6194	A150
Cockle Creek at Cockle Railway Station	211455	-32.9428	151.622	A151
Cockle Creek at Barnsley Vale	211450	-32.9372	151.5991	A152
Lake Macquarie at Belmont	211461	-32.0402	151.6537	A153
Lake Macquarie at Swansea Channel	211462	-33.0868	151.6409	A154
Dora Creek at Kalang Road	211475	-33.0786	151.4883	A155
Dora Creek at Cooranbong	211470	-33.0775	151.4513	A156
Stockton Creek at Morisset	211480	-33.1002	151.4752	A157
Station Locations Tuggerah Lakes Region				A158
Wallarah Creek at Wallarah Creek Bridge	211420	-33.2177	151.5075	A159
Tuggerah Lake at Toukley	211401	-33.2635	151.5248	A160
Wyong River at Wyong Weir Upstream	211417	-33.2778	151.4064	A161
Ourimbah Creek at Lees Bridge	211425	-33.3254	151.428	A162
Tuggerah Lake at Long Jetty	211418	-33.3572	151.4819	A163
Tumbi Umbi Creek at Tumbi Umbi	211419	-33.3622	151.4449	A164
Station Locations Brisbane Water Region				A165
Narara Creek at Manns Road	211435	-33.4017	151.3428	A166

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Station	AWRC	Latitude	Longitude	Table/figure no.
Wamberal Lagoon at Wamberal Lagoon	212450	-33.4271	151.446	A167
Terrigal Lagoon at Terrigal Bridge	212455	-33.4415	151.4409	A168
Avoca Lagoon at Avoca Lagoon	212452	-33.4641	151.4297	A169
Cockrone Lake at Cockrone Lake	212453	-33.4929	151.4267	A170
Erina Creek at Erina	212436	-33.4324	151.3881	A171
Erina Creek at Punt Bridge	212433	-33.4382	151.3596	A172
Brisbane Water at Ettalong	212423	-33.5171	151.342	A173
Brisbane Water at Koolewong 2	2124301	-33.4762	151.3242	A174
Station Locations Hawkesbury River Region				A175
Hawkesbury River at Patonga	212440	-33.551	151.2746	A176
Hawkesbury River at Spencer	212431	-33.4571	151.1468	A177
Hawkesbury River at Gunderman Caravan Park	212429	-33.4409	151.0576	A178
Hawkesbury River at Wisemans Ferry	212460	-33.3819	150.9893	A179
Hawkesbury River at Webbs Creek	212408	-33.3875	150.9823	A180
Hawkesbury River at Colo Junction	212407	-33.4377	150.8832	A181
Hawkesbury River at Sackville	212406	-33.4933	150.8816	A182
Hawkesbury River at Ebenezer	212427	-33.5475	150.8931	A183
Hawkesbury River at Windsor	212426	-33.6049	150.8184	A184
Hawkesbury River at Freemans Reach	212410	-33.5699	150.7807	A185
Nepean River at Castlereagh	212404	-33.6344	150.6765	A186
Station Locations North Sydney Region				A187
Port Jackson at Sydney	213470	-33.8255	151.2585	A188
Narrabeen Lagoon at Ocean Street Bridge	213408D	-33.7038	151.3048	A189
Narrabeen Lagoon at Narrabeen Bridge	213422	-33.7122	151.2968	A190
Dee Why Lagoon at Dee Why	213424	-33.7459	151.3021	A191
Curl Curl Lagoon at Curl Curl	213426	-33.7662	151.2949	A192
Manly Lagoon at Riverview Parade	213413	-33.784	151.2773	A193
Manly Lagoon at Queenscliff Bridge	213414	-33.7832	151.2823	A194
Lane Cove River at Fullers Bridge	213476	-33.7929	151.1569	A195
Station Locations Parramatta and Cooks River Region				A196
Parramatta River at Silverwater Bridge	213435	-33.8245	151.0516	A197
Cooks River at Tempe Bridge	213415	-33.9286	151.1575	A198
Cooks River at Illawarra Road Bridge	213420	-33.9227	151.1426	A199
Cooks River at Canterbury Road	213411	-33.9134	151.1173	A200
Station Locations Georges River Region				A201
Port Hacking at Bundeena	214452	-34.0827	151.1509	A202
Georges River at Como Bridge	213425	-33.997	151.0709	A203
Georges River at Picnic Point Downstream	213410D	-33.9823	151.0002	A204
Georges River at Milperra	213405	-33.9275	150.9793	A205
Prospect Creek at Lansdowne Bridge	213402	-33.8903	150.9674	A206
Georges River at Lansvale	213401	-33.8996	150.9576	A207
Cabramatta Creek at Irelands Bridge	213407	-33.9049	150.9432	A208

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Station	AWRC	Latitude	Longitude	Table/figure no.
Georges River at Scrivener Street	213404	-33.9223	150.9353	A209
Georges River at Liverpool Weir	213400	-33.9269	150.9284	A210
Station Locations Wollongong Region				A211
Hewitts Creek at Hewitts Creek Upstream	214410	-34.3197	150.9152	A212
Hewitts Creek at Hewitts Creek Downstream	214411	-34.3199	150.9152	A213
Hewitts Creek at Hewitts Creek Entrance	214408	-34.3239	150.9239	A214
Cabbage Tree Creek at Balgownie Road	214409	-34.3888	150.8829	A215
Bellambi Lake at Bellambi	214488	-34.3761	150.9196	A216
Towradgi Creek at Towradgi Creek Upstream	214477	-34.3809	150.9074	A217
Towradgi Creek at Towradgi Creek Downstream	214475	-34.3811	150.9076	A218
Cabbage Tree Creek at Cabbage Tree Creek	214405	-34.3966	150.8923	A219
Cabbage Tree Creek at Cabbage Tree Creek Downstream	214406	-34.3968	150.8925	A220
Fairy Creek at Fairy Creek Upstream	214403	-34.4135	150.8926	A221
Fairy Creek at Fairy Creek Downstream	214404	-34.4136	150.893	A222
Byarong Creek at Byarong Creek	214420	-34.44	150.8642	A223
Byarong Creek at Koloona Avenue Upstream	214425	-34.4179	150.8554	A224
Byarong Creek at Koloona Avenue Downstream	214426	-34.418	150.8556	A225
American Creek at Blackmans Parade Upstream	214430	-34.4545	150.8339	A226
American Creek at Blackmans Parade Downstream	214431	-34.4546	150.8342	A227
Station Locations Lake Illawarra Region				A228
Mullet Creek at Mullet Creek	214400	-34.4801	150.8047	A229
Lake Illawarra at Koonawarra Bay	214440	-34.5042	150.8266	A230
Lake Illawarra at Cudgeree Bay 2	2144101	-34.5302	150.8629	A231
Lake Illawarra at Lake Illawarra Entrance	214417	-34.5374	150.8705	A232
Macquarie Rivulet at Princes Highway	214402	-34.5468	150.7856	A233
Little Lake at Little Lake Entrance	214467	-34.561	150.8663	A234
Station Locations Kiama Region				A235
Minnamurra River at Minnamurra	214442	-34.6216	150.8459	A236
Werri Lagoon at Werri Lagoon	214445	-34.7274	150.8374	A237
Crooked River at Gerroa	215410	-34.771	150.8082	A238
Station Locations Shoalhaven River Region				A239
Crookhaven River at Crookhaven Heads	215408	-34.9053	150.7594	A240
Shoalhaven River at Shoalhaven Heads	215470	-34.8546	150.7453	A241
Shoalhaven River at Hay Street	215415	-34.8597	150.7298	A242
Shoalhaven River at Terara	215420	-34.8635	150.629	A243
Shoalhaven River at Nowra Bridge	215411	-34.8652	150.6024	A244
Shoalhaven River at Gradys Caravan Park	215430	-34.8709	150.4629	A245
Crookhaven River at Greenwell Point	215417	-34.9073	150.7365	A246
Wollumboola Lake at Wollumboola	215454	-34.9384	150.7647	A247
Station Locations Jervis Bay Region				A248

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Station	AWRC	Latitude	Longitude	Table/figure no.
Jervis Bay at Jervis Bay	216470	-35.122	150.7074	A249
Currarong Creek at Currarong Creek	216405	-35.0175	150.8205	A250
St Georges Basin at Island Point	216415	-35.0974	150.5947	A251
Sussex Inlet at Sussex Inlet	216412	-35.1695	150.5942	A252
Swan Lake at Swan Lake	216425	-35.1953	150.5606	A253
Station Locations Ulladulla Region				A254
Tasman Sea at Ulladulla Boat Harbour	216471	-35.3577	150.4765	A255
Lake Conjola at Lake Conjola Downstream	216420D	-35.2692	150.5003	A256
Narrawallee Inlet at Narrawallee	216430	-35.3007	150.4687	A257
Burrill Lake at Burrill Lake Bridge	216435	-35.388	150.4452	A258
Tabourie Lake at Lake Tabourie	216440	-35.441	150.4034	A259
Station Locations Batemans Bay Region				A260
Clyde River at Princess Jetty	216410	-35.7038	150.1778	A261
Durras Lake at Durras Lake	216445	-35.6439	150.2974	A262
Clyde River at Nelligen	216453	-35.6515	150.1433	A263
Station Locations Moruya River Region				A264
Tomaga River at George Bass Drive	216455	-35.826	150.1784	A265
Moruya River at Moruya Bridge	217410	-35.908	150.0824	A266
Moruya River at Moruya Hospital	217402	-35.9035	150.0712	A267
Station Locations Coila and Tuross Lakes				A268
Coila Lake at Coila Lake	218405	-36.0487	150.1391	A269
Tuross River at Tuross Head	218410	-36.064	150.1232	A270
Station Locations Wagonga Inlet and Wallaga Lake				A271
Wagonga Inlet at Barlows Bay	218415	-36.2092	150.102	A272
Wallaga Lake at Regatta Point	219405	-36.3696	150.0672	A273
Station Locations Bega River and Back Lagoon				A274
Bermagui Harbour at Bermagui	219470	-36.4263	150.0715	A275
Bega River at Bega River	219410	-36.7026	149.9779	A276
Back Lagoon at Back Lagoon	219415	-36.8836	149.9157	A277
Station Locations Eden Region				A278
Tasman Sea at Eden Boat Harbour	220470	-37.0712	149.9083	A279
Merimbula Lake at Merimbula Wharf	220410	-36.893	149.9098	A280
Merimbula Lake at Merimbula Lake	220405	-36.8917	149.8784	A281
Pambula Lake at Pambula Lake	220415	-36.9658	149.8839	A282
Lake Curalo at Lake Curalo	220420	-37.0523	149.9059	A283
Wonboyn Lake at Wonboyn Lake	220452	-37.2494	149.9183	A284

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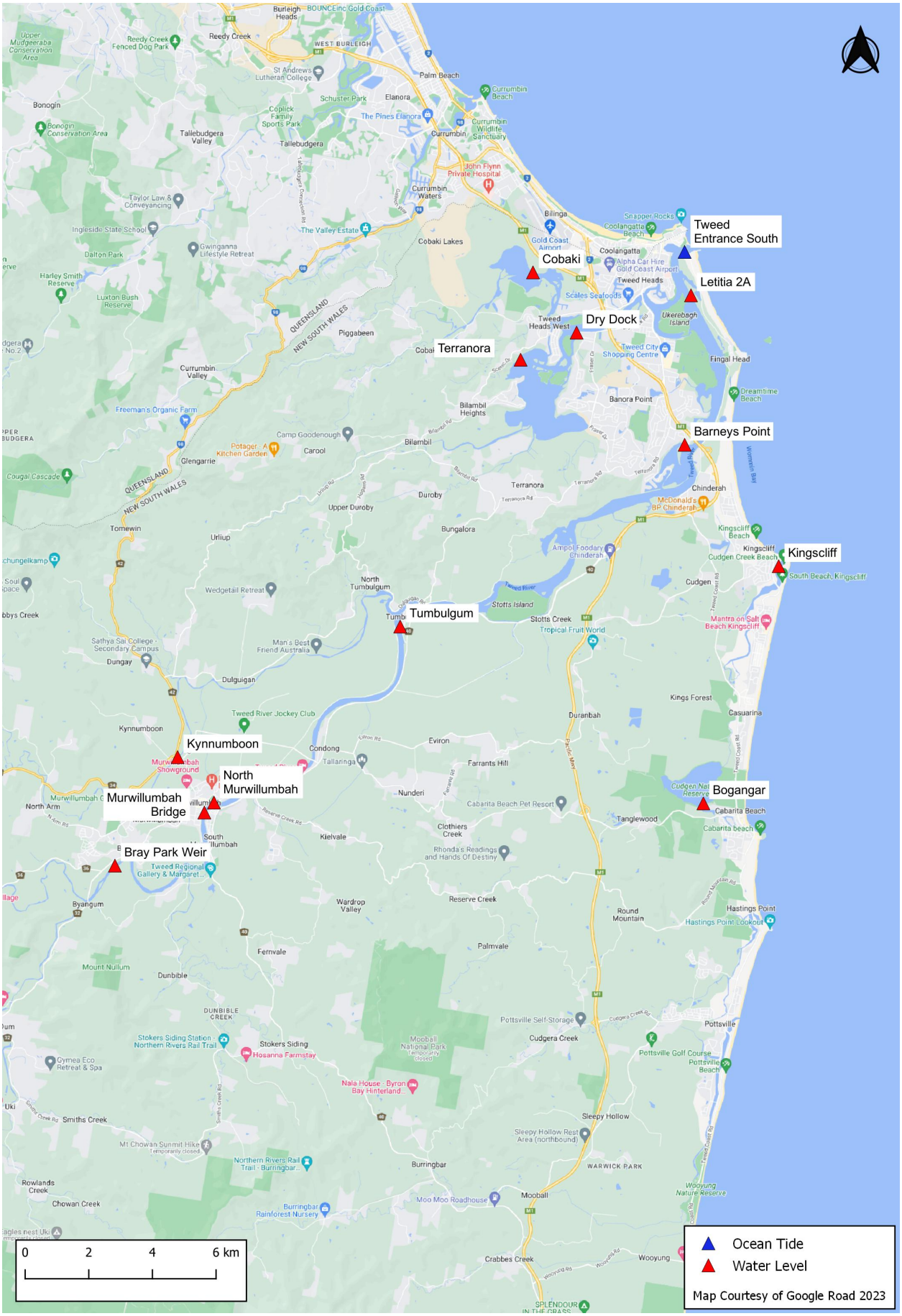
Classification: Public



NSW GOVERNMENT

STATION LOCATIONS
TWEED RIVER REGION

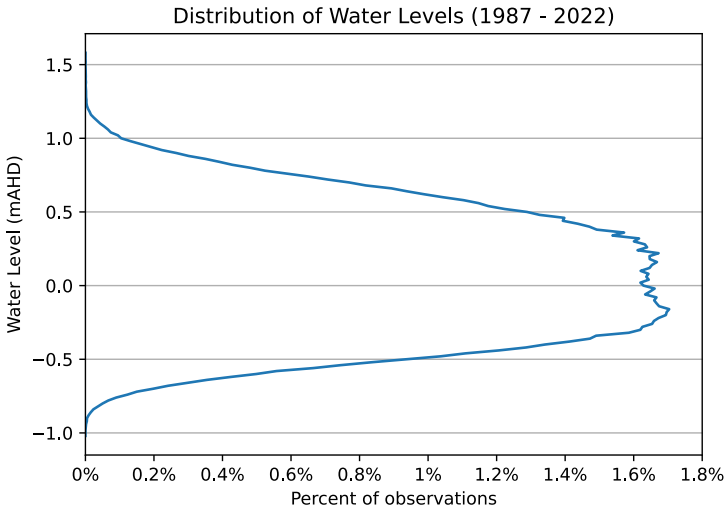
Manly Hydraulics Laboratory

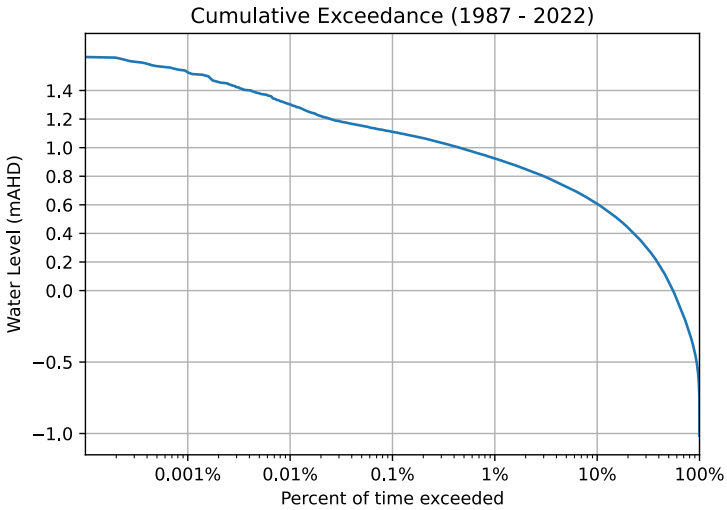
MHL2971
Figure
A1

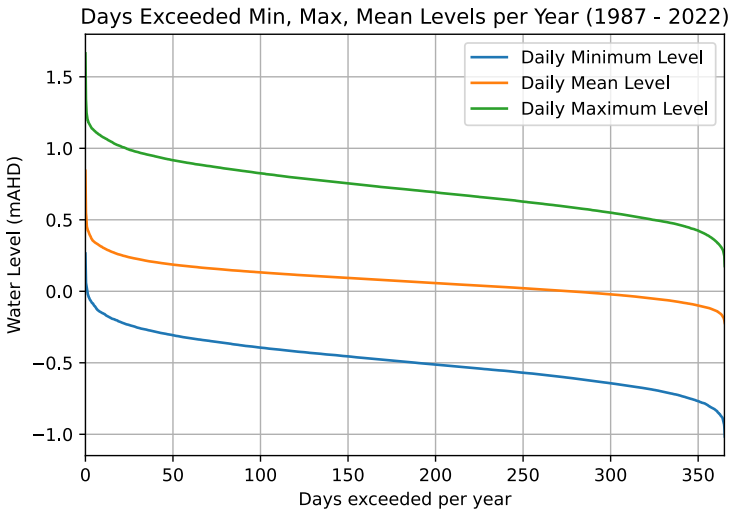
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00000	0	0	0
1.7	0.00000	4	4	0.00037008
1.6	0.00001	14	18	0.0016653
1.5	0.00003	28	46	0.0042559
1.4	0.00006	66	112	0.010362
1.3	0.00014	154	266	0.02461
1.2	0.00094	1018	1284	0.11879
1.1	0.00333	3598	4882	0.45168
1.0	0.00814	8794	13676	1.2653
0.9	0.01736	18769	32445	3.0018
0.8	0.02953	31916	64361	5.9546
0.7	0.04408	47649	112010	10.363
0.6	0.05692	61527	173537	16.055
0.5	0.06842	73951	247488	22.897
0.4	0.07689	83106	330594	30.586
0.3	0.08156	88160	418754	38.743
0.2	0.08261	89288	508042	47.004
0.1	0.08164	88242	596284	55.168
0.0	0.08238	89040	685324	63.405
-0.1	0.08400	90796	776120	71.806
-0.2	0.08305	89764	865884	80.111
-0.3	0.07581	81937	947821	87.691
-0.4	0.05979	64628	1012449	93.671
-0.5	0.03738	40404	1052853	97.409
-0.6	0.01817	19636	1072489	99.226
-0.7	0.00627	6781	1079270	99.853
-0.8	0.00135	1458	1080728	99.988
-0.9	0.00012	130	1080858	100
-1.0	0.00000	1	1080859	100

Station Information	
Station no.	201472
Station name	Tweed Entrance South
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	554109
Northing	6883772

Summary Statistics	
Time interval (mins)	15
Start of record	23/01/1987
Highest water level recorded (m)	1.597
Date recorded	02/05/1996
Lowest water level recorded (m)	-1.043
Date recorded	16/09/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201472

NSW GOVERNMENT

Tweed Entrance South (201472)
FREQUENCY DISTRIBUTION ANALYSIS

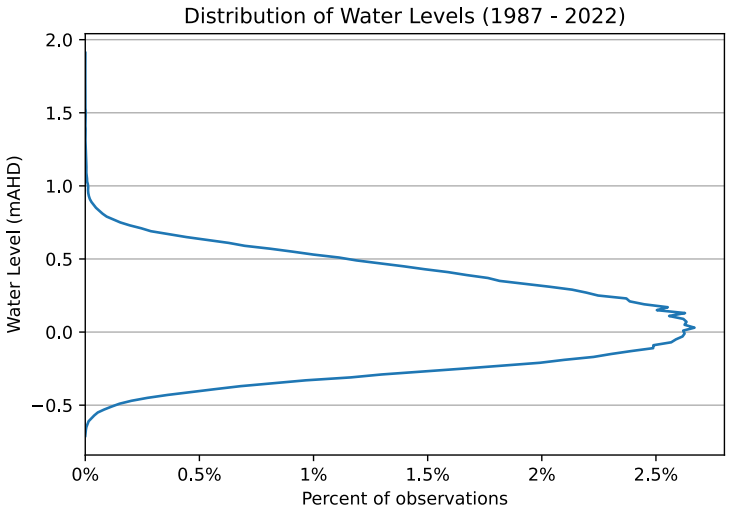
Manly Hydraulics Laboratory

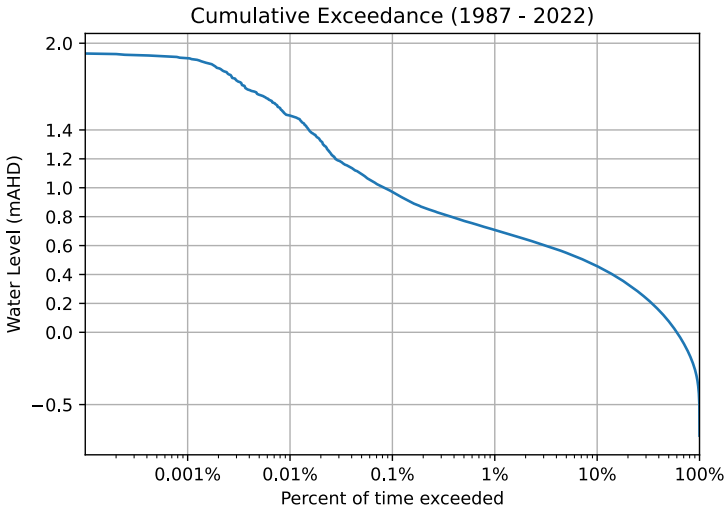
MHL2971
Figure
A2

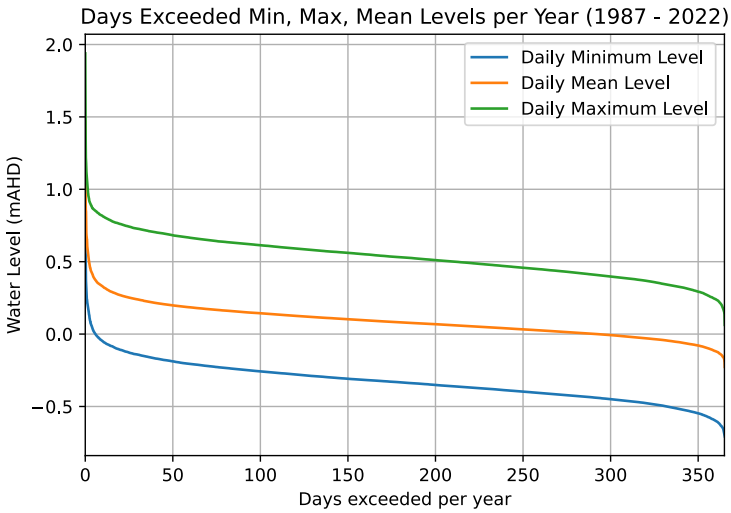
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00002	19	19	0.0016179
1.8	0.00001	14	33	0.0028101
1.7	0.00003	36	69	0.0058756
1.6	0.00003	38	107	0.0091115
1.5	0.00005	64	171	0.014561
1.4	0.00006	66	237	0.020182
1.3	0.00007	78	315	0.026824
1.2	0.00021	247	562	0.047857
1.1	0.00035	407	969	0.082515
1.0	0.00069	809	1778	0.1514
0.9	0.00221	2595	4373	0.37238
0.8	0.00720	8458	12831	1.0926
0.7	0.02059	24179	37010	3.1516
0.6	0.04288	50351	87361	7.4392
0.5	0.06715	78851	166212	14.154
0.4	0.08980	105457	271669	23.134
0.3	0.11141	130838	402507	34.275
0.2	0.12632	148346	550853	46.907
0.1	0.13165	154597	705450	60.072
0.0	0.12925	151780	857230	72.997
-0.1	0.11700	137396	994626	84.697
-0.2	0.08669	101802	1096428	93.366
-0.3	0.04569	53659	1150087	97.935
-0.4	0.01644	19302	1169389	99.578
-0.5	0.00375	4400	1173789	99.953
-0.6	0.00046	536	1174325	99.999
-0.7	0.00000	4	1174329	99.999

Station Information	
Station no.	201448
Station name	Cobaki
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	549344
Northing	6883128

Summary Statistics	
Time interval (mins)	15
Start of record	12/12/1987
Highest water level recorded (m)	1.918
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.733
Date recorded	05/09/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201448

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Cobaki (201448)
FREQUENCY DISTRIBUTION ANALYSIS

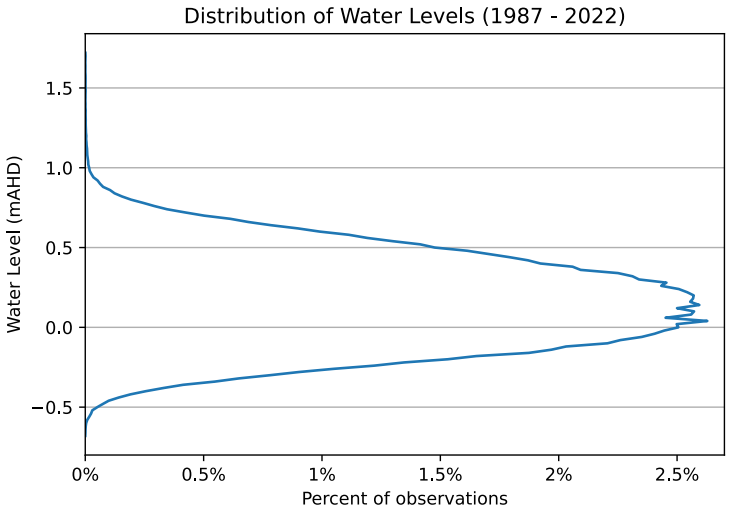
Manly Hydraulics Laboratory

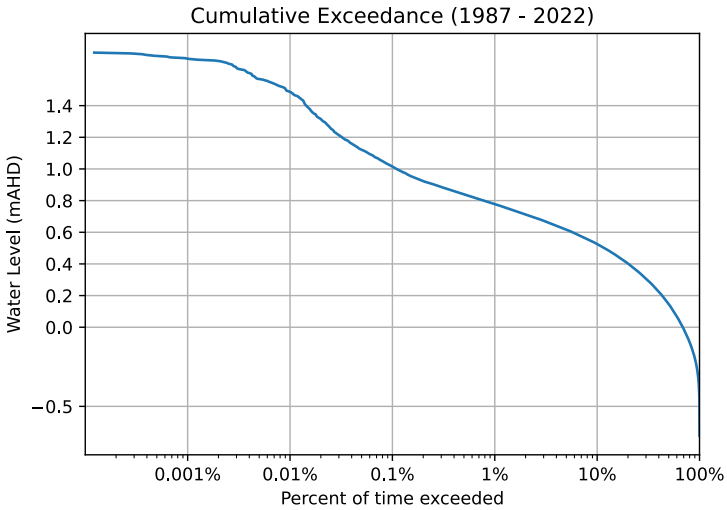
MHL2971
Figure
A3

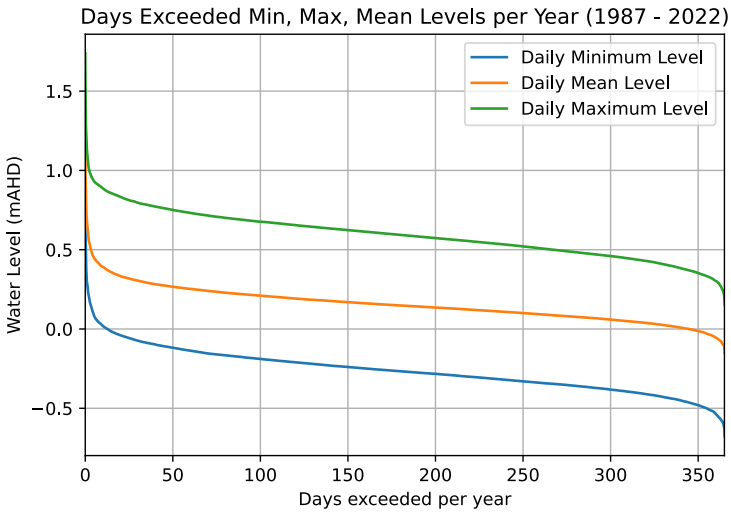
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00003	39	39	0.0032893
1.6	0.00005	57	96	0.0080967
1.5	0.00005	63	159	0.01341
1.4	0.00007	80	239	0.020157
1.3	0.00011	130	369	0.031122
1.2	0.00026	307	676	0.057014
1.1	0.00052	613	1289	0.10871
1.0	0.00148	1757	3046	0.2569
0.9	0.00521	6182	9228	0.77829
0.8	0.01496	17738	26966	2.2743
0.7	0.03486	41338	68304	5.7608
0.6	0.06009	71242	139546	11.769
0.5	0.08451	100203	239749	20.221
0.4	0.10636	126105	365854	30.856
0.3	0.12278	145573	511427	43.134
0.2	0.12787	151612	663039	55.921
0.1	0.12709	150682	813721	68.63
0.0	0.11968	141906	955627	80.598
-0.1	0.09733	115401	1071028	90.331
-0.2	0.06049	71727	1142755	96.381
-0.3	0.02720	32249	1175004	99.1
-0.4	0.00761	9018	1184022	99.861
-0.5	0.00131	1549	1185571	99.992
-0.6	0.00007	87	1185658	99.999

Station Information	
Station no.	201428
Station name	Dry Dock
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	550715
Northing	6881235

Summary Statistics	
Time interval (mins)	15
Start of record	22/12/1987
Highest water level recorded (m)	1.737
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.705
Date recorded	23/12/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201428

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Dry Dock (201428)
FREQUENCY DISTRIBUTION ANALYSIS

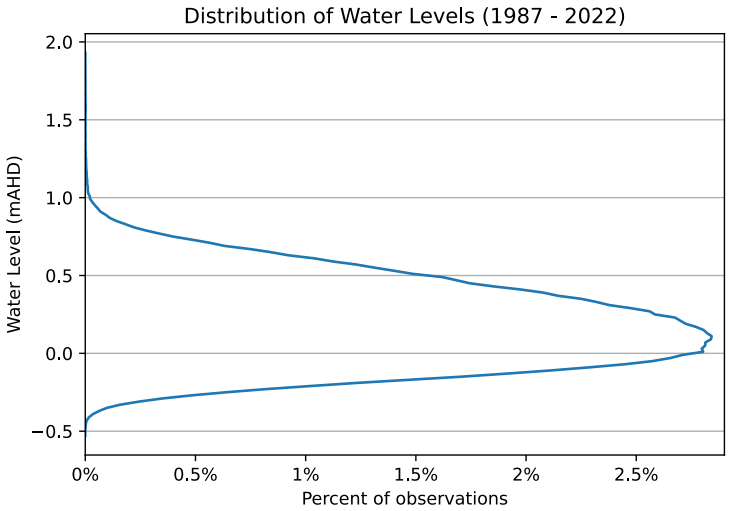
Manly Hydraulics Laboratory

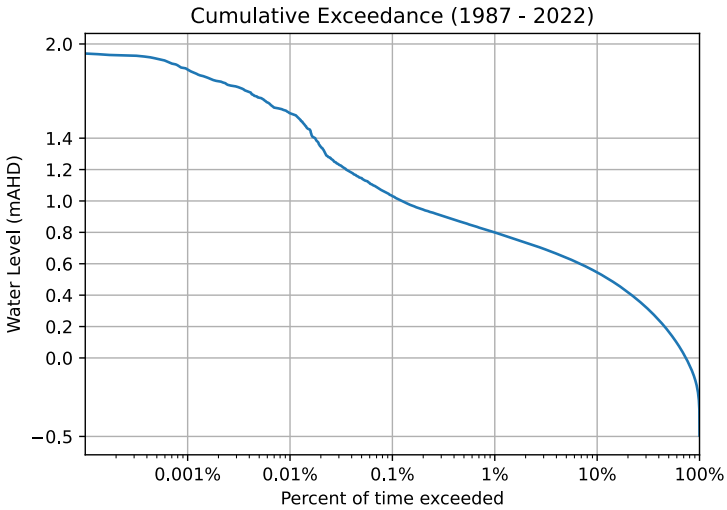
MHL2971
Figure
A4

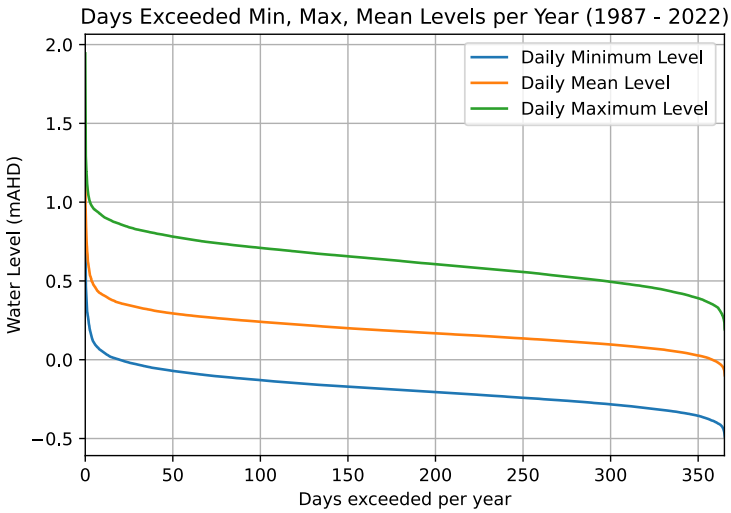
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00001	9	9	0.00077624
1.8	0.00003	29	38	0.0032775
1.7	0.00003	35	73	0.0062962
1.6	0.00006	74	147	0.012679
1.5	0.00004	51	198	0.017077
1.4	0.00005	53	251	0.021648
1.3	0.00013	152	403	0.034758
1.2	0.00029	342	745	0.064255
1.1	0.00058	671	1416	0.12213
1.0	0.00198	2297	3713	0.32024
0.9	0.00665	7716	11429	0.98574
0.8	0.01880	21801	33230	2.8661
0.7	0.03928	45546	78776	6.7943
0.6	0.06342	73530	152306	13.136
0.5	0.08621	99953	252259	21.757
0.4	0.10976	127257	379516	32.733
0.3	0.12845	148934	528450	45.578
0.2	0.13872	160836	689286	59.45
0.1	0.14117	163675	852961	73.567
0.0	0.12931	149924	1002885	86.498
-0.1	0.08986	104192	1107077	95.484
-0.2	0.03737	43331	1150408	99.222
-0.3	0.00734	8512	1158920	99.956
-0.4	0.00044	507	1159427	99.999

Station Information	
Station no.	201447
Station name	Terranora
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	548955
Northing	6880384

Summary Statistics	
Time interval (mins)	15
Start of record	09/12/1987
Highest water level recorded (m)	1.943
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.553
Date recorded	28/05/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201447

NSW GOVERNMENT

Terranora (201447)
FREQUENCY DISTRIBUTION ANALYSIS

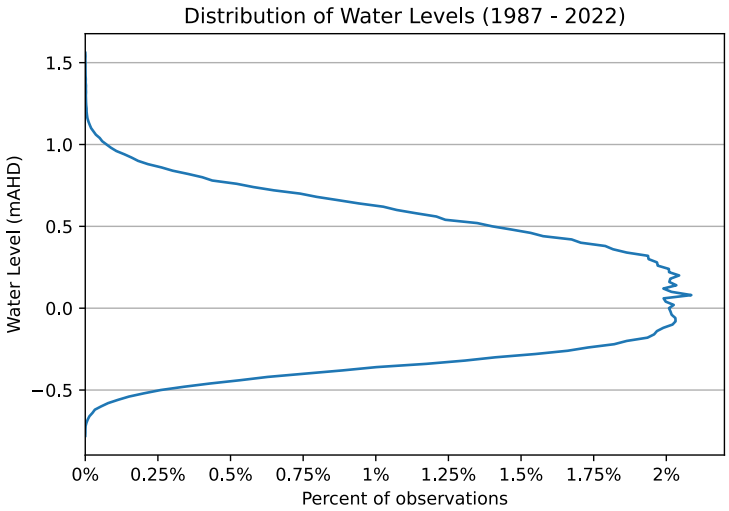
Manly Hydraulics Laboratory

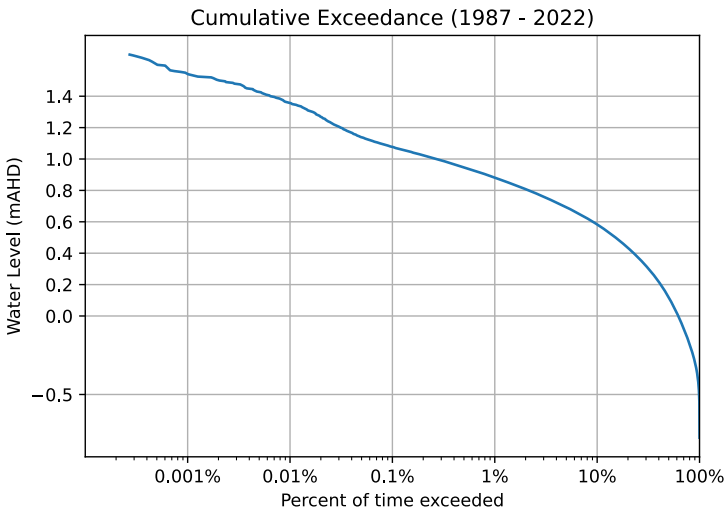
MHL2971
Figure
A5

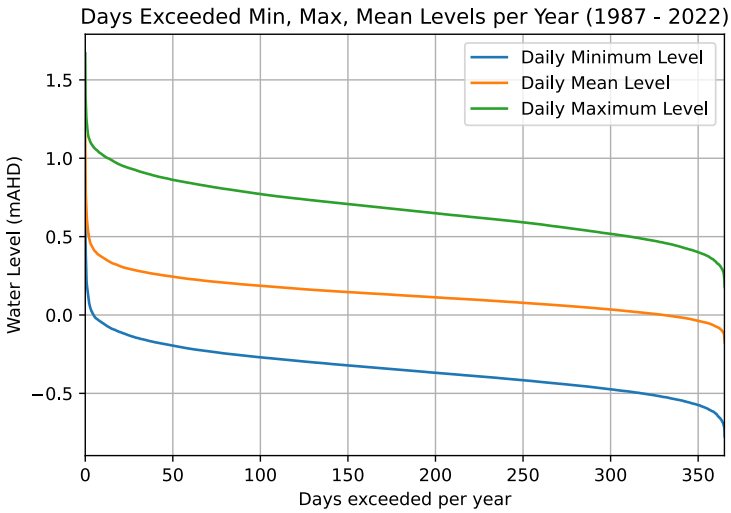
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00001	6	6	0.00050908
1.6	0.00002	19	25	0.0021212
1.5	0.00004	51	76	0.0064484
1.4	0.00010	121	197	0.016715
1.3	0.00015	171	368	0.031224
1.2	0.00044	521	889	0.075429
1.1	0.00193	2273	3162	0.26829
1.0	0.00563	6641	9803	0.83176
0.9	0.01315	15493	25296	2.1463
0.8	0.02589	30513	55809	4.7352
0.7	0.04374	51548	107357	9.1089
0.6	0.06007	70802	178159	15.116
0.5	0.07653	90194	268353	22.769
0.4	0.09113	107400	375753	31.882
0.3	0.09895	116626	492379	41.777
0.2	0.10093	118952	611331	51.87
0.1	0.10118	119245	730576	61.987
0.0	0.10105	119096	849672	72.092
-0.1	0.09872	116349	966021	81.964
-0.2	0.08625	101650	1067671	90.589
-0.3	0.05781	68137	1135808	96.37
-0.4	0.02686	31652	1167460	99.056
-0.5	0.00803	9464	1176924	99.859
-0.6	0.00135	1593	1178517	99.994
-0.7	0.00006	72	1178589	100

Station Information	
Station no.	201429
Station name	Letitia 2A
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	554309
Northing	6882407

Summary Statistics	
Time interval (mins)	15
Start of record	25/11/1987
Highest water level recorded (m)	1.584
Date recorded	02/05/1996
Lowest water level recorded (m)	-0.796
Date recorded	16/09/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201429

NSW GOVERNMENT

Letitia 2A (201429)
FREQUENCY DISTRIBUTION ANALYSIS

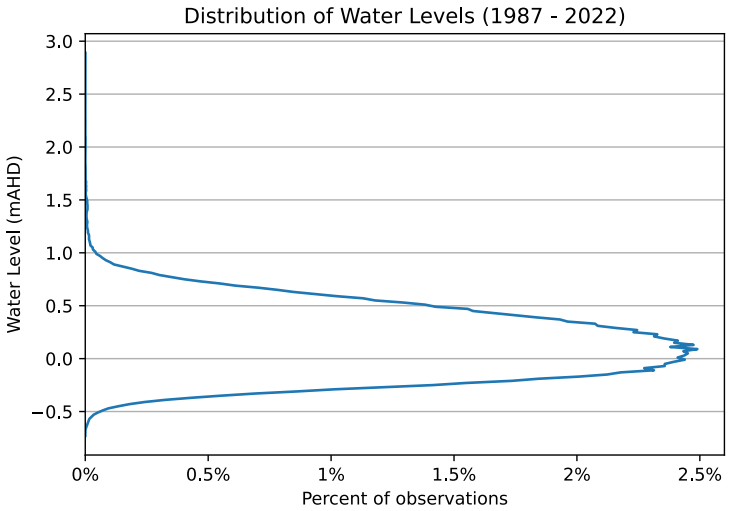
Manly Hydraulics Laboratory

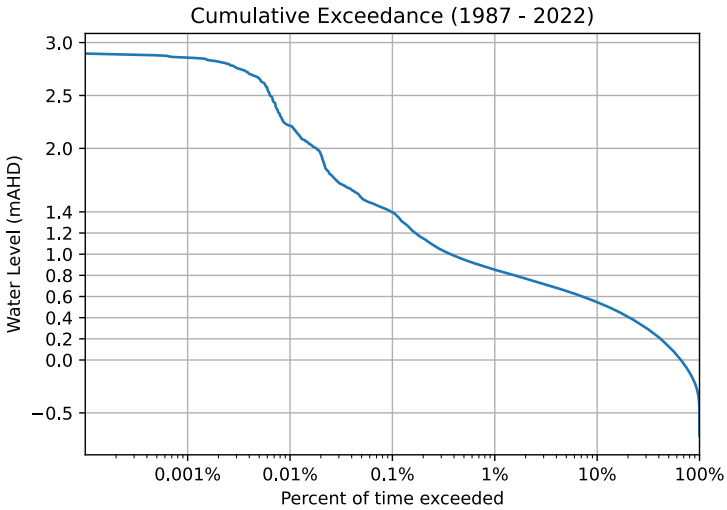
MHL2971
Figure
A6

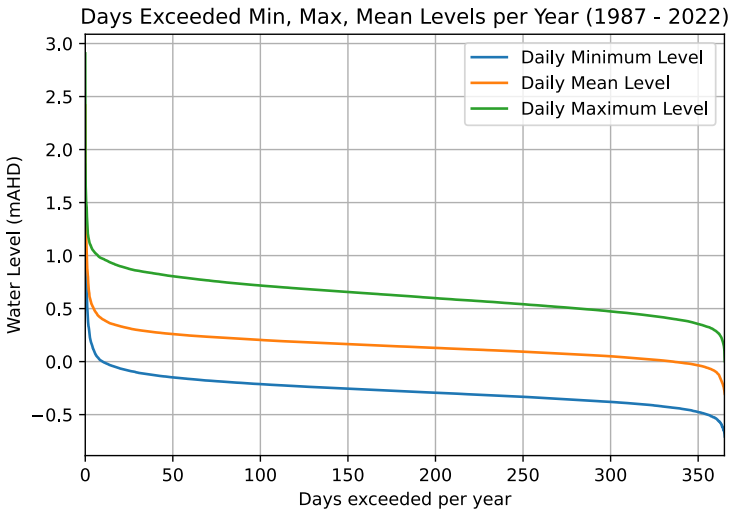
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.9	0.00004	47	47	0.0041027
2.7	0.00002	25	72	0.006285
2.5	0.00002	21	93	0.0081181
2.3	0.00005	52	145	0.012657
2.1	0.00008	91	236	0.020601
1.9	0.00008	87	323	0.028195
1.7	0.00028	324	647	0.056478
1.5	0.00071	816	1463	0.12771
1.3	0.00110	1261	2724	0.23778
1.1	0.00461	5284	8008	0.69903
0.9	0.02792	31983	39991	3.4909
0.7	0.09472	108510	148501	12.963
0.5	0.17486	200317	348818	30.449
0.3	0.23164	265361	614179	53.613
0.1	0.24127	276391	890570	77.739
-0.1	0.18038	206635	1097205	95.777
-0.3	0.04028	46140	1143345	99.805
-0.5	0.00195	2235	1145580	100
-0.7	0.00000	2	1145582	100

Station Information	
Station no.	201426
Station name	Barneys Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	554110
Northing	6877710

Summary Statistics	
Time interval (mins)	15
Start of record	18/03/1987
Highest water level recorded (m)	2.906
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.753
Date recorded	19/09/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201426

NSW GOVERNMENT

Barneys Point (201426)
FREQUENCY DISTRIBUTION ANALYSIS

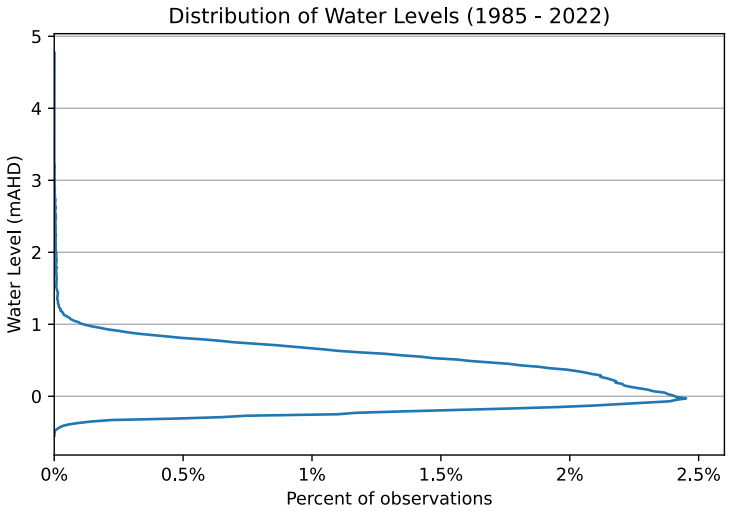
Manly Hydraulics Laboratory

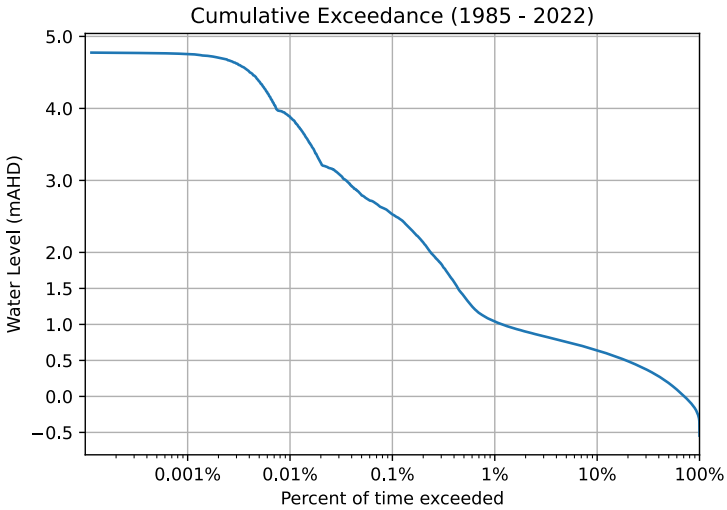
MHL2971
Figure
A7

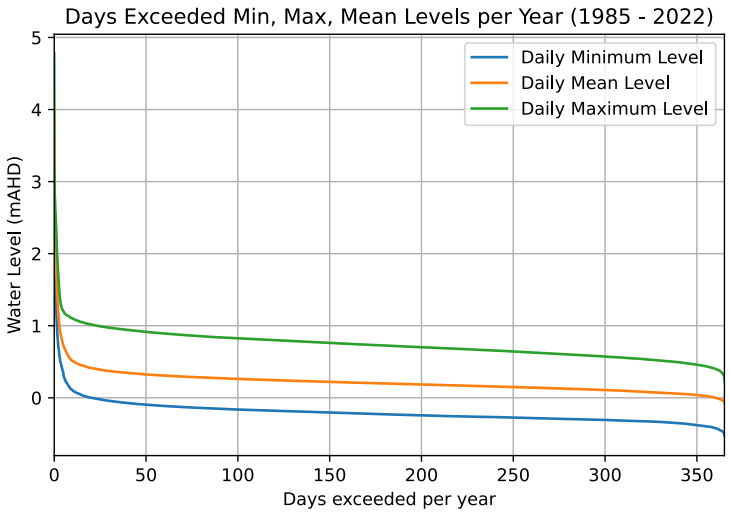
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.9	0.00002	25	25	0.0020695
4.7	0.00002	24	49	0.0040561
4.5	0.00001	18	67	0.0055461
4.3	0.00001	15	82	0.0067878
4.1	0.00003	34	116	0.0096023
3.9	0.00003	40	156	0.012913
3.7	0.00003	36	192	0.015893
3.5	0.00003	38	230	0.019039
3.3	0.00011	127	357	0.029552
3.1	0.00012	147	504	0.04172
2.9	0.00024	290	794	0.065726
2.7	0.00042	509	1303	0.10786
2.5	0.00049	591	1894	0.15678
2.3	0.00054	649	2543	0.21051
2.1	0.00064	778	3321	0.27491
1.9	0.00077	934	4255	0.35222
1.7	0.00086	1035	5290	0.4379
1.5	0.00124	1492	6782	0.5614
1.3	0.00253	3054	9836	0.81421
1.1	0.01193	14416	24252	2.0075
0.9	0.05167	62423	86675	7.1748
0.7	0.11977	144688	231363	19.152
0.5	0.18591	224586	455949	37.743
0.3	0.21722	262407	718356	59.464
0.1	0.23749	286898	1005254	83.213
-0.1	0.15411	186169	1191423	98.624
-0.3	0.01373	16591	1208014	99.997
-0.5	0.00003	32	1208046	100

Station Information	
Station no.	201432
Station name	Tumbulgum
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	545172
Northing	6871999

Summary Statistics	
Time interval (mins)	15
Start of record	16/07/1985
Highest water level recorded (m)	4.778
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.573
Date recorded	03/11/1985







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201432

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Tumbulgum (201432)
FREQUENCY DISTRIBUTION ANALYSIS

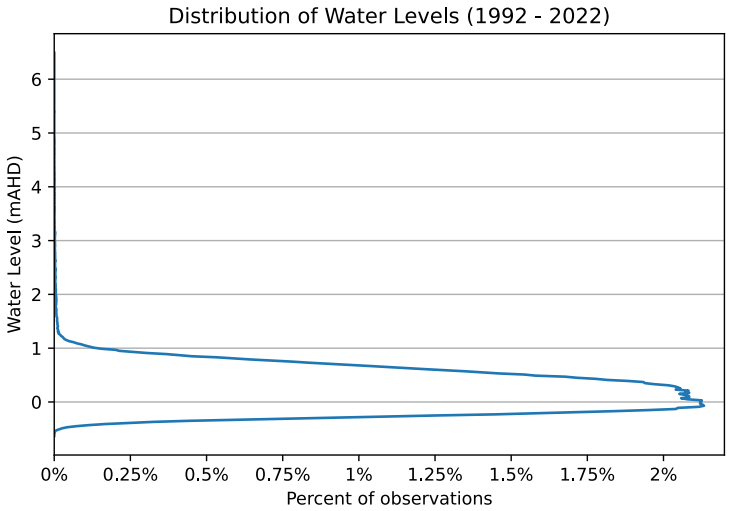
Manly Hydraulics Laboratory

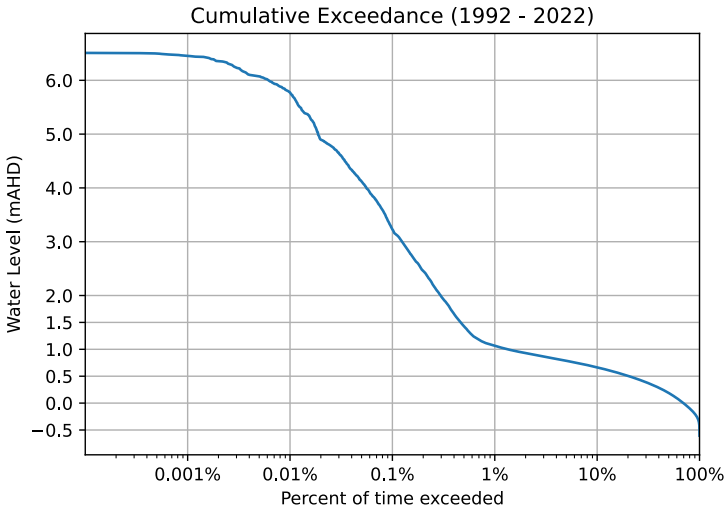
MHL2971
Figure
A8

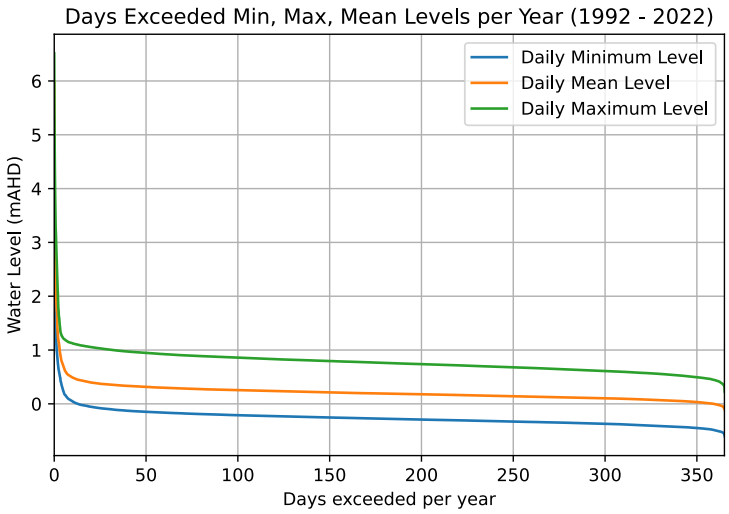
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.6	0.00003	26	26	0.0026105
6.3	0.00004	36	62	0.0062251
6.0	0.00004	44	106	0.010643
5.7	0.00003	31	137	0.013756
5.4	0.00004	42	179	0.017973
5.1	0.00006	63	242	0.024298
4.8	0.00010	100	342	0.034339
4.5	0.00012	118	460	0.046186
4.2	0.00015	145	605	0.060745
3.9	0.00019	186	791	0.07942
3.6	0.00016	162	953	0.095686
3.3	0.00029	286	1239	0.1244
3.0	0.00036	355	1594	0.16005
2.7	0.00052	520	2114	0.21226
2.4	0.00058	573	2687	0.26979
2.1	0.00087	868	3555	0.35694
1.8	0.00108	1077	4632	0.46508
1.5	0.00201	2000	6632	0.66589
1.2	0.01715	17084	23716	2.3812
0.9	0.11214	111689	135405	13.595
0.6	0.24953	248527	383932	38.549
0.3	0.31049	309240	693172	69.598
0.0	0.27139	270292	963464	96.737
-0.3	0.03263	32499	995963	100
-0.6	0.00000	2	995965	100

Station Information	
Station no.	201420
Station name	North Murwillumbah
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	539329
Northing	6866467

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1992
Highest water level recorded (m)	6.511
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.649
Date recorded	23/12/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201420

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North Murwillumbah (201420)
FREQUENCY DISTRIBUTION ANALYSIS

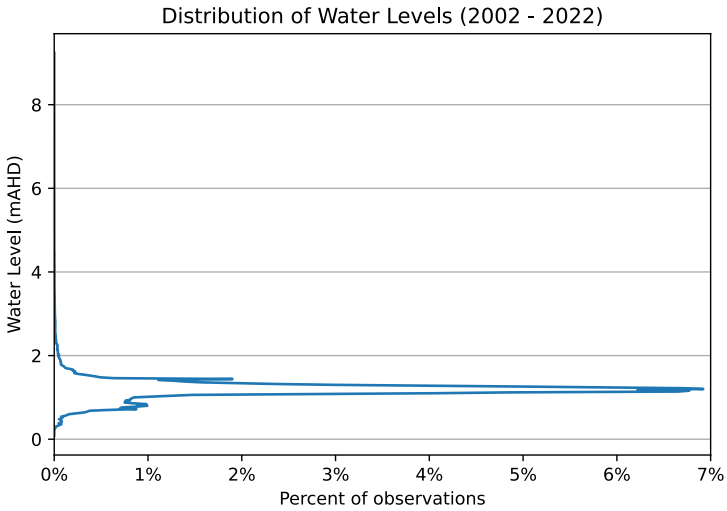
Manly Hydraulics Laboratory

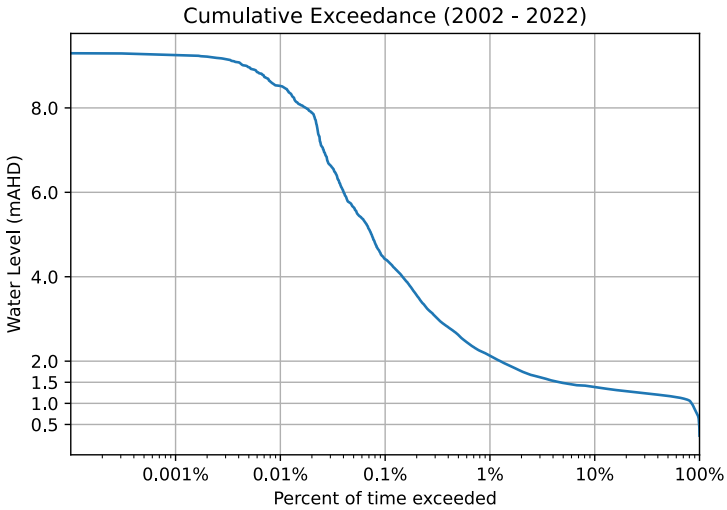
MHL2971
Figure
A9

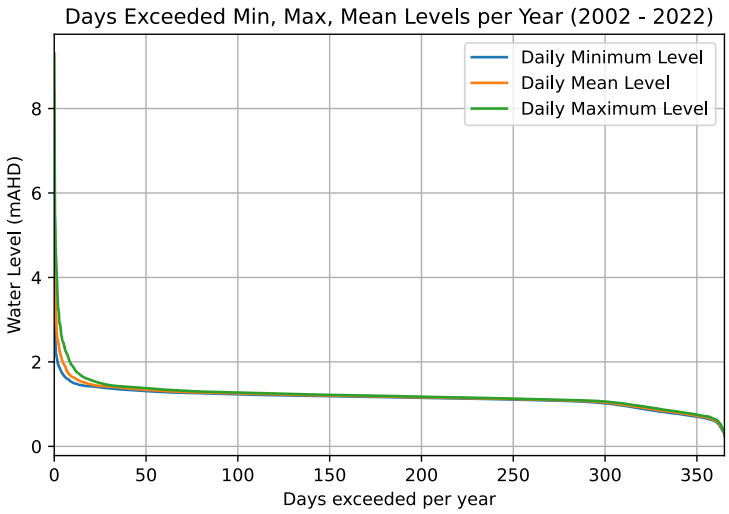
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
9.5	0.00002	16	16	0.002402
9.2	0.00003	23	39	0.005855
8.9	0.00003	17	56	0.0084071
8.6	0.00005	30	86	0.012911
8.3	0.00005	32	118	0.017715
8.0	0.00004	28	146	0.021919
7.7	0.00001	7	153	0.022969
7.4	0.00002	12	165	0.024771
7.1	0.00003	20	185	0.027774
6.8	0.00005	33	218	0.032728
6.5	0.00005	30	248	0.037232
6.2	0.00005	34	282	0.042336
5.9	0.00009	60	342	0.051343
5.6	0.00013	85	427	0.064104
5.3	0.00010	69	496	0.074463
5.0	0.00009	57	553	0.08302
4.7	0.00019	127	680	0.10209
4.4	0.00033	222	902	0.13541
4.1	0.00035	231	1133	0.17009
3.8	0.00039	259	1392	0.20898
3.5	0.00053	356	1748	0.26242
3.2	0.00091	603	2351	0.35295
2.9	0.00156	1036	3387	0.50848
2.6	0.00224	1489	4876	0.73202
2.3	0.00528	3516	8392	1.2599
2.0	0.01044	6955	15347	2.304
1.7	0.06900	45959	61306	9.2037
1.4	0.64466	429408	490714	73.669
1.1	0.19009	126622	617336	92.679
0.8	0.06622	44107	661443	99.301
0.5	0.00699	4659	666102	100

Station Information	
Station no.	201455
Station name	Bray Park Weir
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	536209
Northing	6864484

Summary Statistics	
Time interval (mins)	15
Start of record	04/11/2002
Highest water level recorded (m)	9.256
Date recorded	28/02/2022
Lowest water level recorded (m)	0.056
Date recorded	14/10/2005







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201455

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Bray Park Weir (201455)
FREQUENCY DISTRIBUTION ANALYSIS

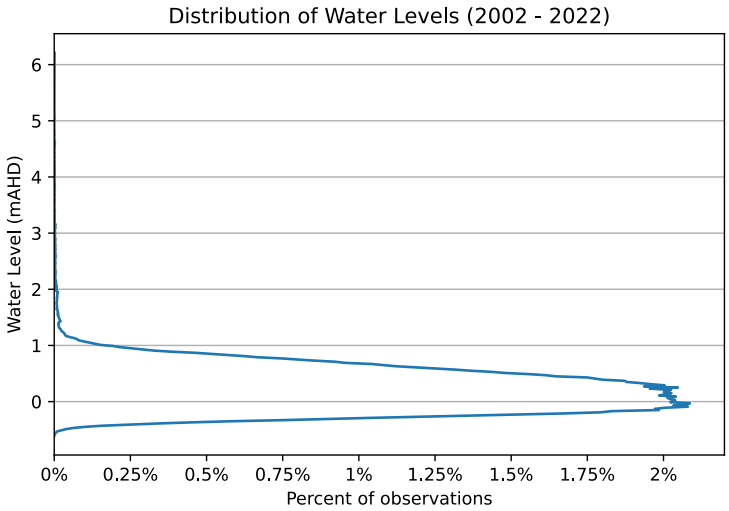
Manly Hydraulics Laboratory

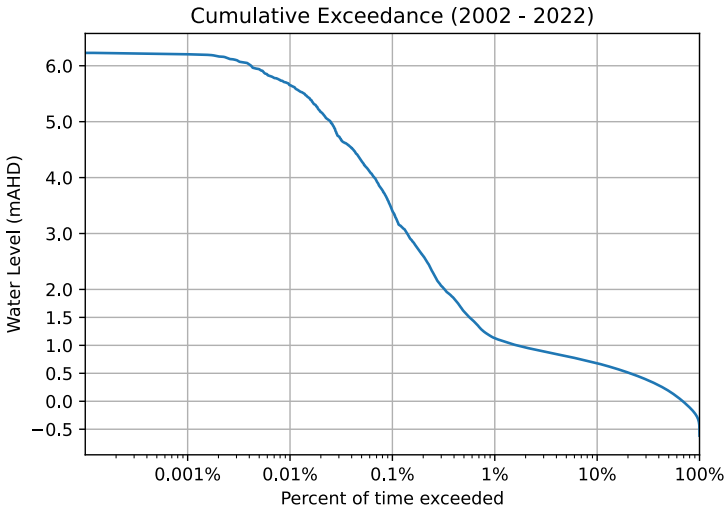
MHL2971
Figure
A10

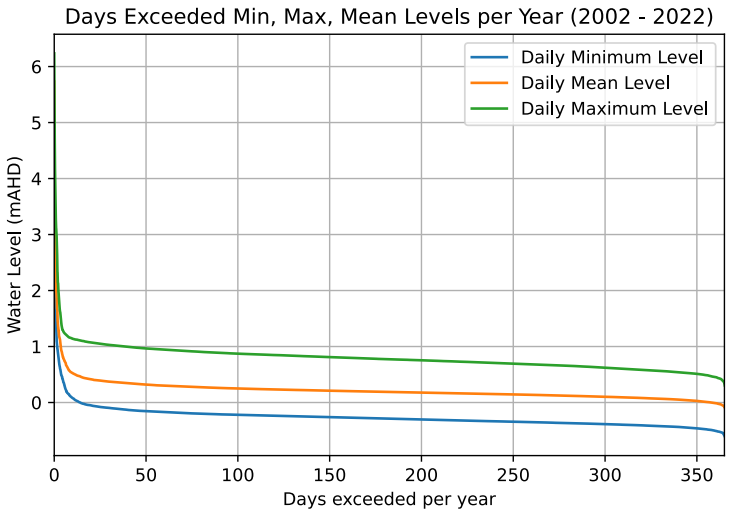
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.2	0.00003	20	20	0.0029008
6.0	0.00003	18	38	0.0055115
5.8	0.00004	31	69	0.010008
5.6	0.00004	31	100	0.014504
5.4	0.00004	26	126	0.018275
5.2	0.00005	36	162	0.023497
5.0	0.00004	25	187	0.027123
4.8	0.00007	51	238	0.03452
4.6	0.00010	70	308	0.044673
4.4	0.00009	59	367	0.05323
4.2	0.00012	83	450	0.065268
4.0	0.00012	80	530	0.076872
3.8	0.00012	80	610	0.088475
3.6	0.00011	73	683	0.099063
3.4	0.00012	86	769	0.11154
3.2	0.00027	183	952	0.13808
3.0	0.00027	186	1138	0.16506
2.8	0.00034	233	1371	0.19885
2.6	0.00032	224	1595	0.23134
2.4	0.00034	237	1832	0.26571
2.2	0.00057	393	2225	0.32272
2.0	0.00091	629	2854	0.41395
1.8	0.00089	613	3467	0.50286
1.6	0.00149	1026	4493	0.65167
1.4	0.00195	1344	5837	0.8466
1.2	0.00789	5443	11280	1.6361
1.0	0.03553	24495	35775	5.1888
0.8	0.09124	62906	98681	14.313
0.6	0.14868	102506	201187	29.18
0.4	0.19342	133354	334541	48.522
0.2	0.20108	138639	473180	68.63
0.0	0.20032	138113	611293	88.662
-0.2	0.10543	72690	683983	99.205
-0.4	0.00793	5469	689452	99.999
-0.6	0.00000	1	689453	99.999

Station Information	
Station no.	201465
Station name	Murwillumbah Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	539219
Northing	6866353

Summary Statistics	
Time interval (mins)	15
Start of record	05/11/2002
Highest water level recorded (m)	6.234
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.628
Date recorded	26/11/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201465

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Murwillumbah Bridge (201465)
FREQUENCY DISTRIBUTION ANALYSIS

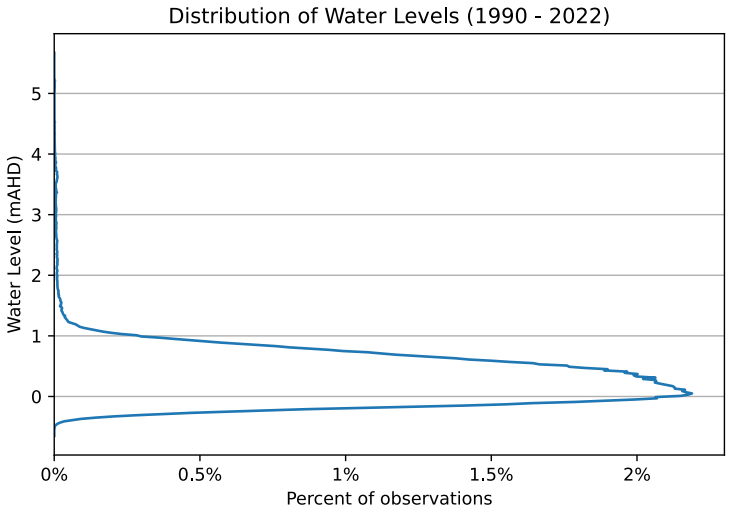
Manly Hydraulics Laboratory

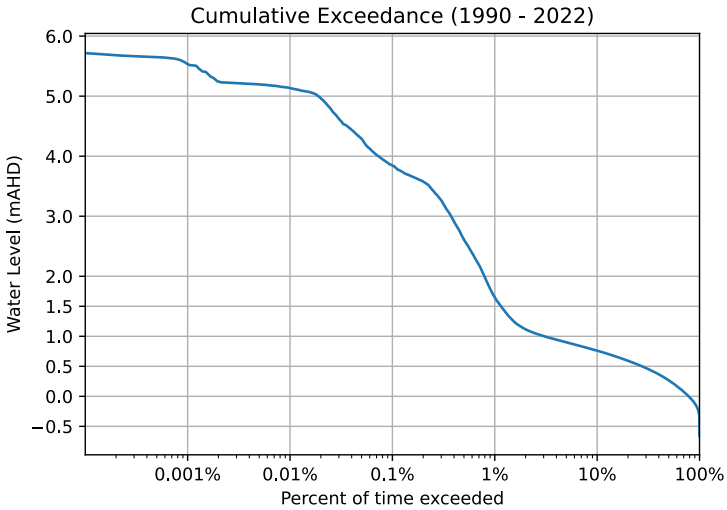
MHL2971
Figure
A11

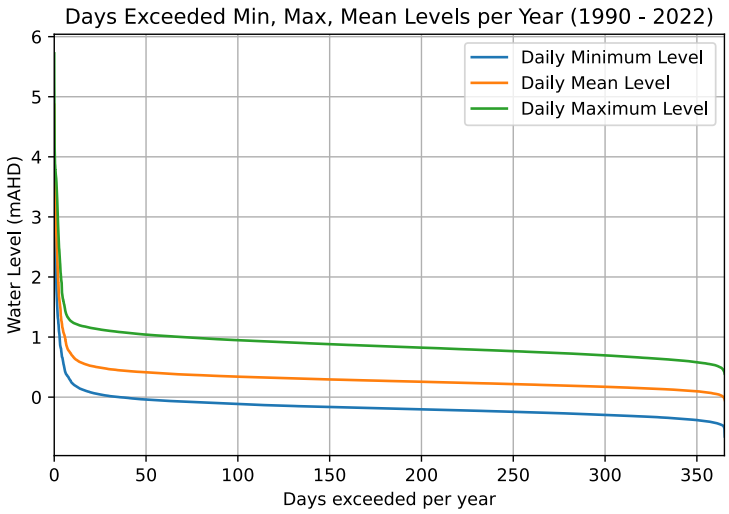
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.7	0.00001	12	12	0.0011218
5.5	0.00001	6	18	0.0016827
5.3	0.00011	113	131	0.012246
5.1	0.00009	101	232	0.021688
4.9	0.00006	62	294	0.027484
4.7	0.00008	90	384	0.035897
4.5	0.00013	143	527	0.049265
4.3	0.00013	138	665	0.062166
4.1	0.00026	281	946	0.088434
3.9	0.00049	520	1466	0.13704
3.7	0.00093	995	2461	0.23006
3.5	0.00060	639	3100	0.28979
3.3	0.00052	555	3655	0.34168
3.1	0.00062	658	4313	0.40319
2.9	0.00066	703	5016	0.46891
2.7	0.00081	866	5882	0.54986
2.5	0.00092	989	6871	0.64232
2.3	0.00102	1087	7958	0.74393
2.1	0.00097	1033	8991	0.8405
1.9	0.00120	1282	10273	0.96034
1.7	0.00193	2060	12333	1.1529
1.5	0.00279	2987	15320	1.4321
1.3	0.00655	7005	22325	2.087
1.1	0.02862	30615	52940	4.9489
0.9	0.08161	87303	140243	13.11
0.7	0.14310	153080	293323	27.42
0.5	0.19210	205491	498814	46.63
0.3	0.20890	223470	722284	67.521
0.1	0.20869	223239	945523	88.39
-0.1	0.10589	113268	1058791	98.978
-0.3	0.01019	10898	1069689	99.997
-0.5	0.00003	31	1069720	100

Station Information	
Station no.	201422
Station name	Kynnumboon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	538179
Northing	6867895

Summary Statistics	
Time interval (mins)	15
Start of record	01/08/1990
Highest water level recorded (m)	5.688
Date recorded	31/03/2017
Lowest water level recorded (m)	-0.670
Date recorded	28/12/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-201422

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Kynnumboon (201422)
FREQUENCY DISTRIBUTION ANALYSIS

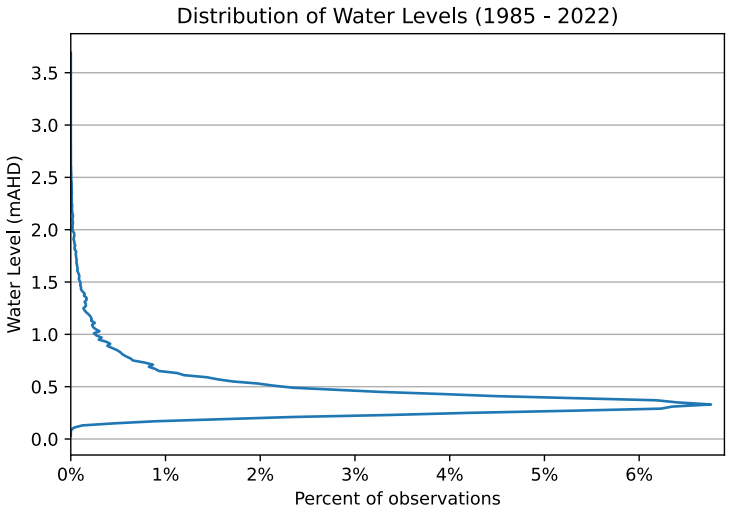
Manly Hydraulics Laboratory

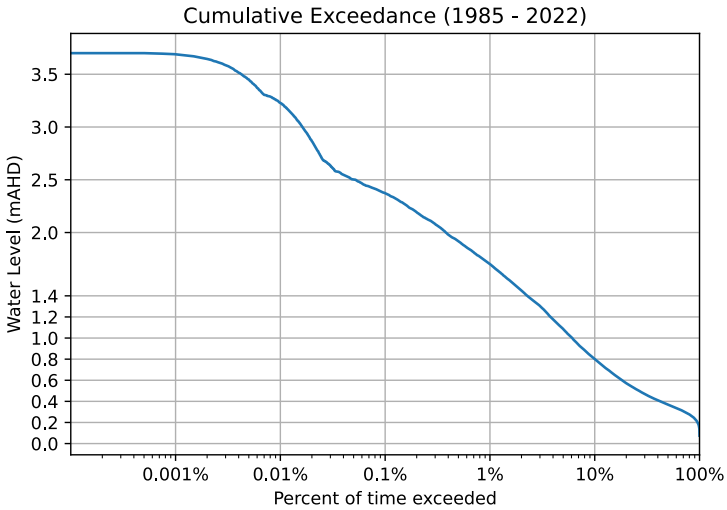
MHL2971
Figure
A12

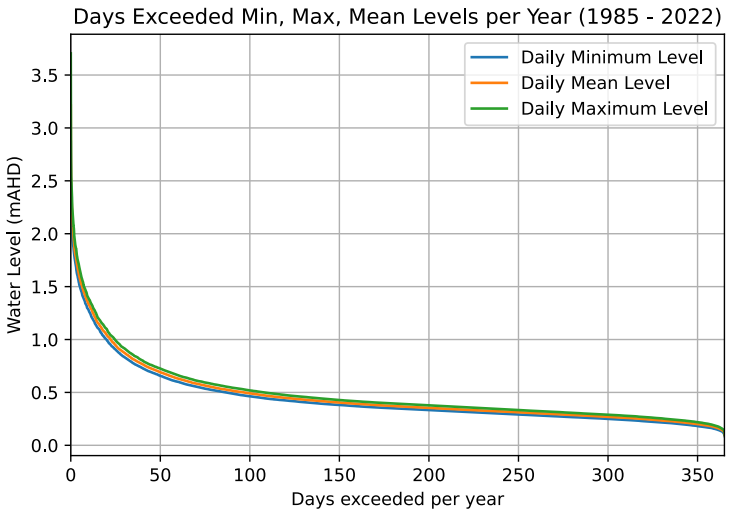
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.7	0.00004	46	46	0.0037078
3.5	0.00003	39	85	0.0068513
3.3	0.00006	77	162	0.013058
3.1	0.00005	68	230	0.018539
2.9	0.00006	75	305	0.024584
2.7	0.00027	336	641	0.051667
2.5	0.00084	1047	1688	0.13606
2.3	0.00146	1814	3502	0.28227
2.1	0.00246	3057	6559	0.52868
1.9	0.00474	5886	12445	1.0031
1.7	0.00745	9244	21689	1.7482
1.5	0.01282	15909	37598	3.0305
1.3	0.01804	22384	59982	4.8348
1.1	0.02853	35401	95383	7.6882
0.9	0.05646	70047	165430	13.334
0.7	0.13147	163103	328533	26.481
0.5	0.45788	568066	896599	72.269
0.3	0.27702	343676	1240275	99.971
0.1	0.00028	353	1240628	99.999

Station Information	
Station no.	202416
Station name	Bogangar
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	554698
Northing	6866441

Summary Statistics	
Time interval (mins)	15
Start of record	19/12/1985
Highest water level recorded (m)	3.703
Date recorded	28/02/2022
Lowest water level recorded (m)	0.009
Date recorded	14/01/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202416

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Bogangar (202416)
FREQUENCY DISTRIBUTION ANALYSIS

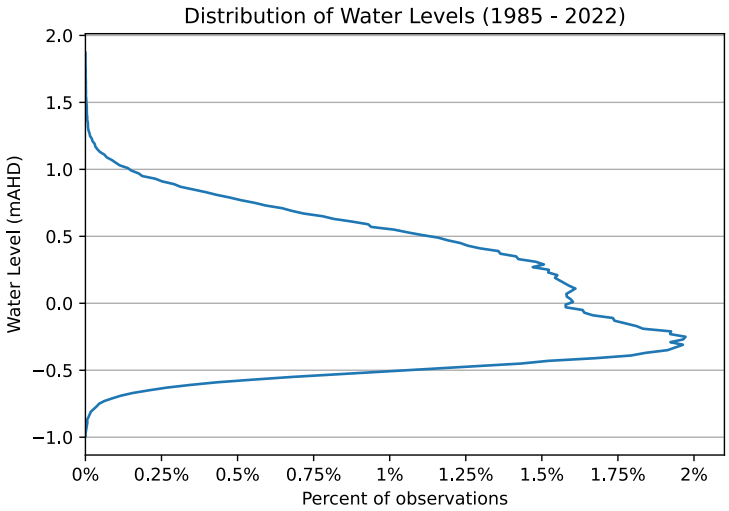
Manly Hydraulics Laboratory

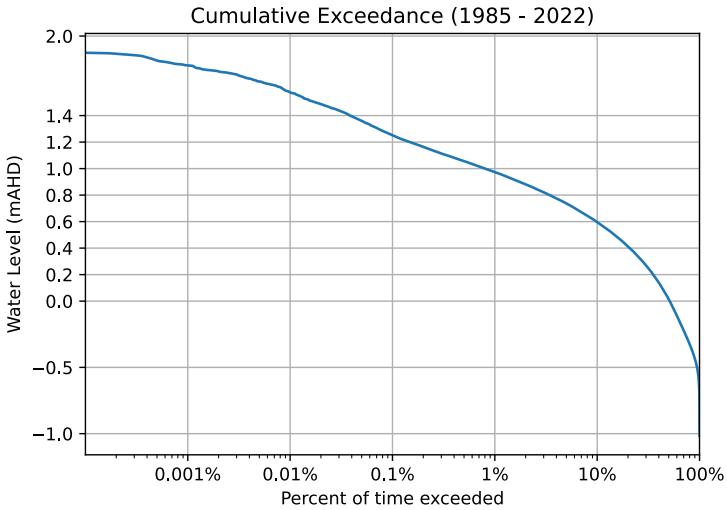
MHL2971
Figure
A13

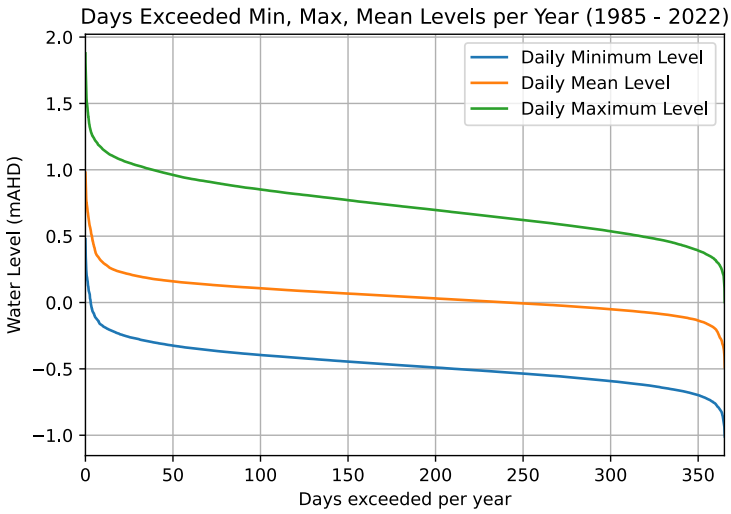
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00001	8	8	0.00068837
1.8	0.00003	30	38	0.0032697
1.7	0.00005	62	100	0.0086046
1.6	0.00009	105	205	0.017639
1.5	0.00021	243	448	0.038548
1.4	0.00034	391	839	0.072192
1.3	0.00076	881	1720	0.148
1.2	0.00191	2216	3936	0.33868
1.1	0.00470	5467	9403	0.80909
1.0	0.00939	10908	20311	1.7477
0.9	0.01689	19633	39944	3.437
0.8	0.02674	31076	71020	6.111
0.7	0.03753	43622	114642	9.8644
0.6	0.04924	57226	171868	14.788
0.5	0.06053	70343	242211	20.841
0.4	0.06941	80664	322875	27.782
0.3	0.07547	87712	410587	35.329
0.2	0.07854	91279	501866	43.183
0.1	0.07956	92466	594332	51.14
0.0	0.08057	93639	687971	59.197
-0.1	0.08818	102485	790456	68.015
-0.2	0.09655	112210	902666	77.67
-0.3	0.09534	110804	1013470	87.205
-0.4	0.07372	85680	1099150	94.577
-0.5	0.03809	44266	1143416	98.386
-0.6	0.01233	14324	1157740	99.618
-0.7	0.00304	3529	1161269	99.922
-0.8	0.00062	719	1161988	99.984
-0.9	0.00016	181	1162169	100
-1.0	0.00000	5	1162174	100

Station Information	
Station no.	202418
Station name	Kingscliff
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	557064
Northing	6873896

Summary Statistics	
Time interval (mins)	15
Start of record	17/05/1985
Highest water level recorded (m)	1.877
Date recorded	15/06/2022
Lowest water level recorded (m)	-1.010
Date recorded	18/11/2021







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202418

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Kingscliff (202418)
FREQUENCY DISTRIBUTION ANALYSIS

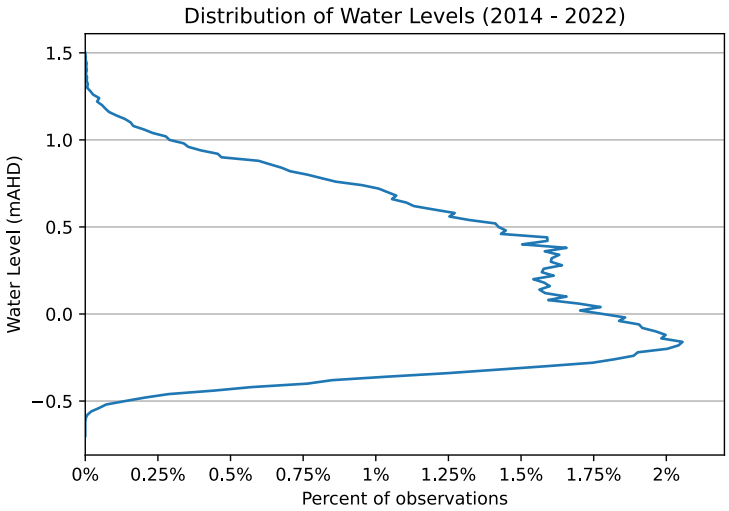
Manly Hydraulics Laboratory

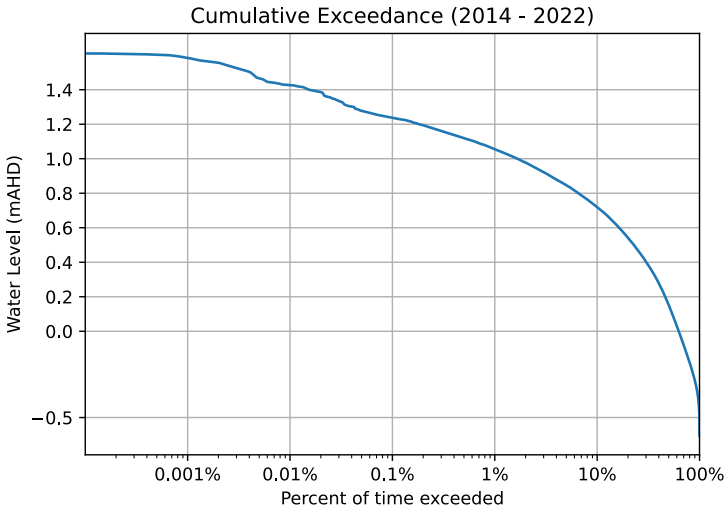
MHL2971
Figure
A14

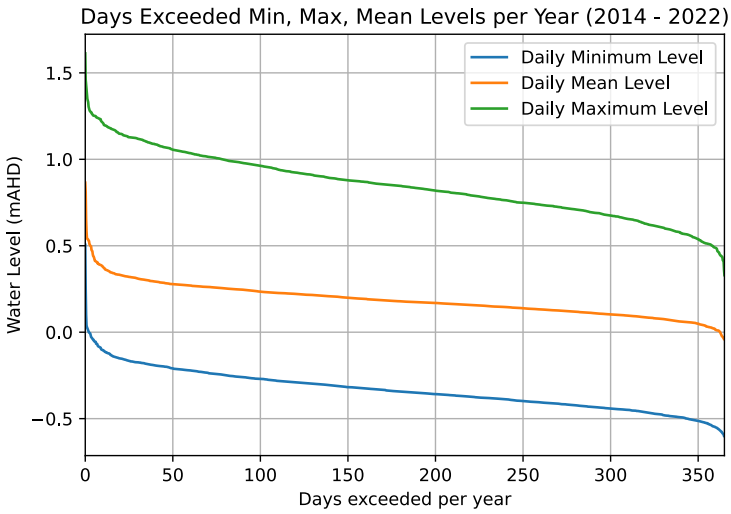
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00004	6	6	0.0040603
1.5	0.00011	16	22	0.014888
1.4	0.00027	40	62	0.041957
1.3	0.00139	206	268	0.18136
1.2	0.00453	669	937	0.63408
1.1	0.01032	1525	2462	1.6661
1.0	0.01837	2714	5176	3.5027
0.9	0.03082	4554	9730	6.5845
0.8	0.04404	6508	16238	10.989
0.7	0.05402	7983	24221	16.391
0.6	0.06457	9542	33763	22.848
0.5	0.07482	11056	44819	30.33
0.4	0.07979	11790	56609	38.308
0.3	0.08006	11830	68439	46.314
0.2	0.07867	11625	80064	54.181
0.1	0.08424	12449	92513	62.605
0.0	0.09301	13744	106257	71.906
-0.1	0.10042	14840	121097	81.949
-0.2	0.09360	13831	134928	91.308
-0.3	0.06135	9066	143994	97.443
-0.4	0.02271	3356	147350	99.714
-0.5	0.00284	419	147769	99.998
-0.6	0.00001	2	147771	99.999

Station Information	
Station no.	202434
Station name	Kingscliff Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	557030
Northing	6873280

Summary Statistics	
Time interval (mins)	15
Start of record	12/05/2014
Highest water level recorded (m)	1.509
Date recorded	04/06/2016
Lowest water level recorded (m)	-0.722
Date recorded	26/11/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202434

NSW GOVERNMENT

Kingscliff Upstream (202434)
FREQUENCY DISTRIBUTION ANALYSIS

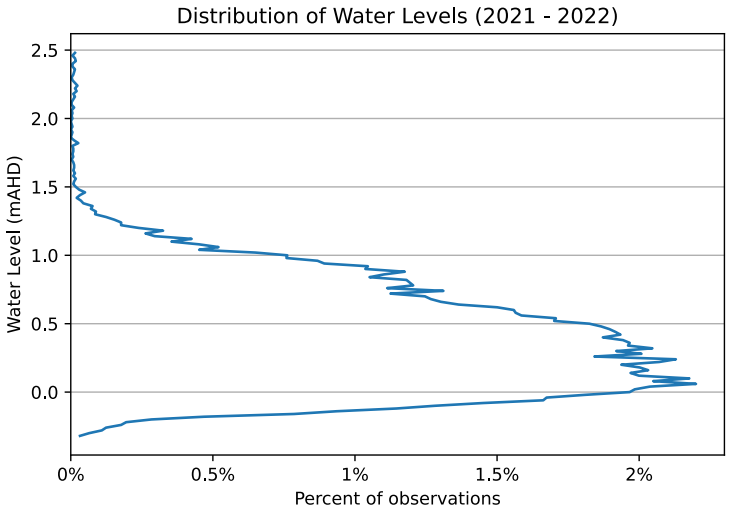
Manly Hydraulics Laboratory

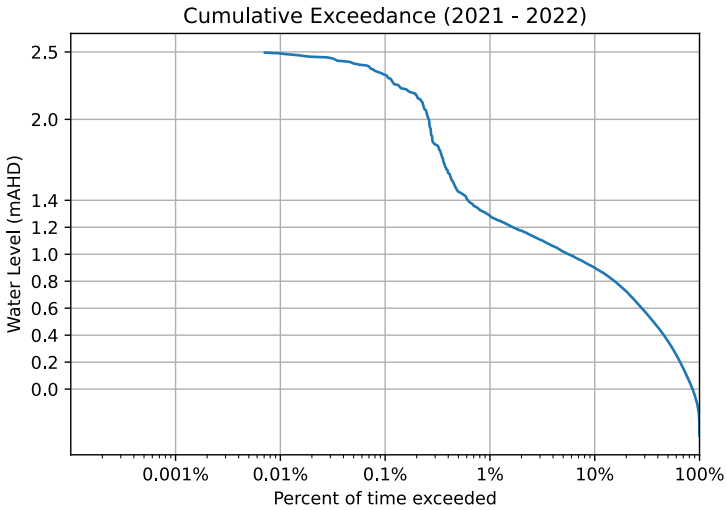
MHL2971
Figure
A15

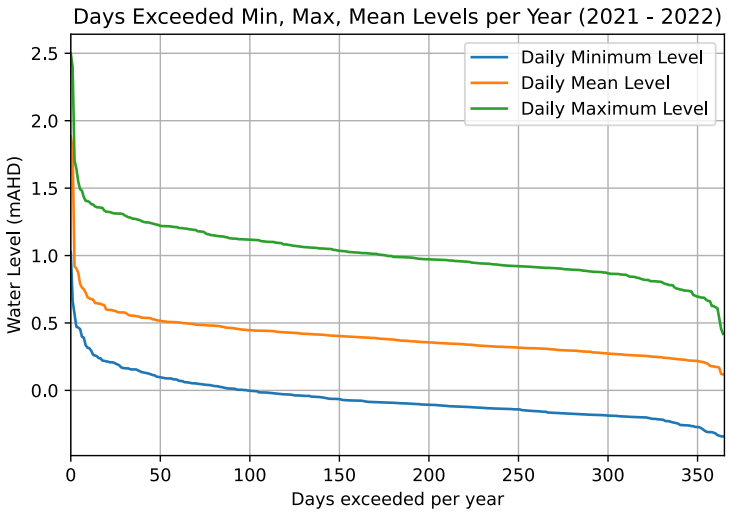
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00068	23	23	0.067919
2.4	0.00047	16	39	0.11517
2.3	0.00062	21	60	0.17718
2.2	0.00056	19	79	0.23329
2.1	0.00027	9	88	0.25986
2.0	0.00015	5	93	0.27463
1.9	0.00047	16	109	0.32188
1.8	0.00038	13	122	0.36026
1.7	0.00044	15	137	0.40456
1.6	0.00062	21	158	0.46657
1.5	0.00151	51	209	0.61717
1.4	0.00316	107	316	0.93314
1.3	0.00718	243	559	1.6507
1.2	0.01547	524	1083	3.1981
1.1	0.02427	822	1905	5.6254
1.0	0.04326	1465	3370	9.9516
0.9	0.05546	1878	5248	15.497
0.8	0.05947	2014	7262	21.445
0.7	0.06680	2262	9524	28.124
0.6	0.08118	2749	12273	36.242
0.5	0.09438	3196	15469	45.68
0.4	0.09789	3315	18784	55.469
0.3	0.09969	3376	22160	65.438
0.2	0.09940	3366	25526	75.378
0.1	0.10448	3538	29064	85.826
0.0	0.08564	2900	31964	94.389
-0.1	0.04618	1564	33528	99.008
-0.2	0.00889	301	33829	99.897
-0.3	0.00103	35	33864	100

Station Information	
Station no.	202435
Station name	Mooball Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	555495
Northing	6859252

Summary Statistics	
Time interval (mins)	15
Start of record	25/02/2021
Highest water level recorded (m)	2.489
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.345
Date recorded	18/05/2022







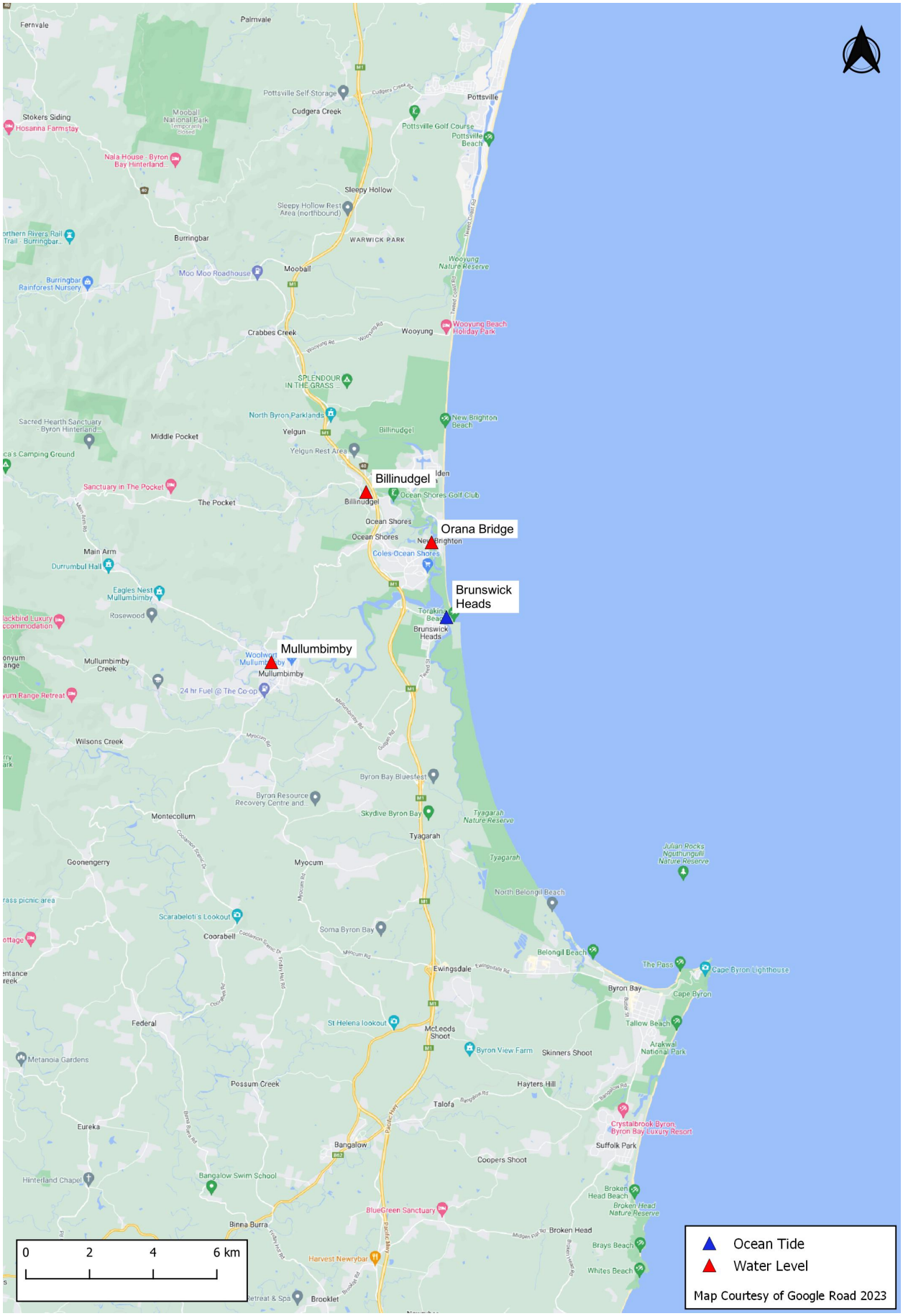
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202435

NSW GOVERNMENT

Mooball Creek (202435)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A16



NSW GOVERNMENT

STATION LOCATIONS
BRUNSWICK RIVER REGION

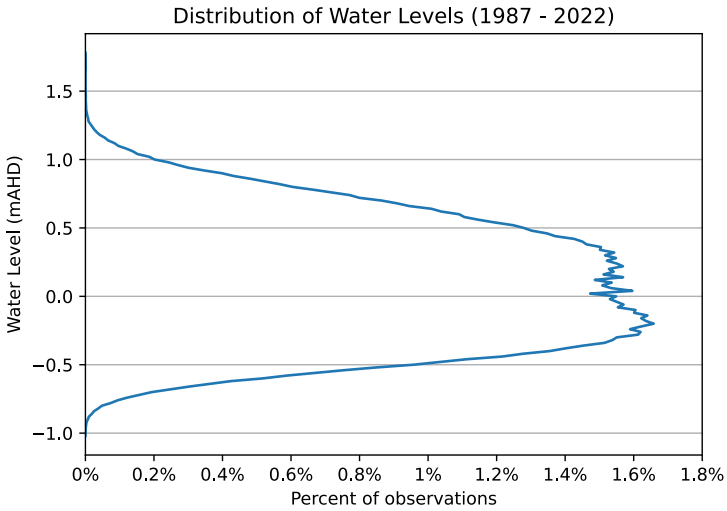
Manly Hydraulics Laboratory

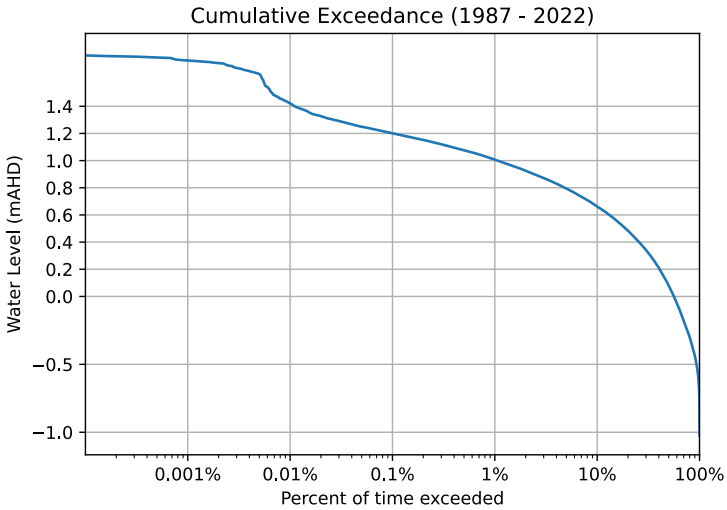
MHL2971
Figure
A17

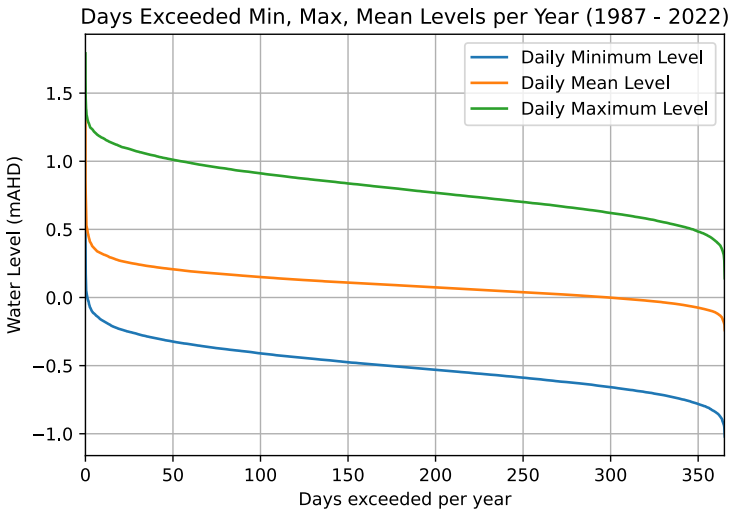
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00003	30	30	0.0025515
1.7	0.00003	33	63	0.0053582
1.6	0.00001	15	78	0.0066339
1.5	0.00004	52	130	0.011057
1.4	0.00016	184	314	0.026706
1.3	0.00077	902	1216	0.10342
1.2	0.00282	3315	4531	0.38536
1.1	0.00692	8132	12663	1.077
1.0	0.01361	16003	28666	2.4381
0.9	0.02400	28221	56887	4.8383
0.8	0.03558	41830	98717	8.3959
0.7	0.04767	56046	154763	13.163
0.6	0.05786	68032	222795	18.949
0.5	0.06726	79081	301876	25.675
0.4	0.07462	87737	389613	33.137
0.3	0.07706	90602	480215	40.843
0.2	0.07637	89798	570013	48.48
0.1	0.07648	89922	659935	56.128
0.0	0.07754	91165	751100	63.881
-0.1	0.08104	95288	846388	71.986
-0.2	0.08103	95276	941664	80.089
-0.3	0.07458	87692	1029356	87.547
-0.4	0.05994	70470	1099826	93.541
-0.5	0.03813	44827	1144653	97.353
-0.6	0.01851	21769	1166422	99.205
-0.7	0.00643	7556	1173978	99.847
-0.8	0.00138	1628	1175606	99.986
-0.9	0.00014	164	1175770	100
-1.0	0.00000	2	1175772	100

Station Information	
Station no.	202403
Station name	Brunswick Heads
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	554078
Northing	6843182

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1987
Highest water level recorded (m)	1.791
Date recorded	28/02/2022
Lowest water level recorded (m)	-1.042
Date recorded	19/09/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202403

NSW GOVERNMENT

Brunswick Heads (202403)
FREQUENCY DISTRIBUTION ANALYSIS

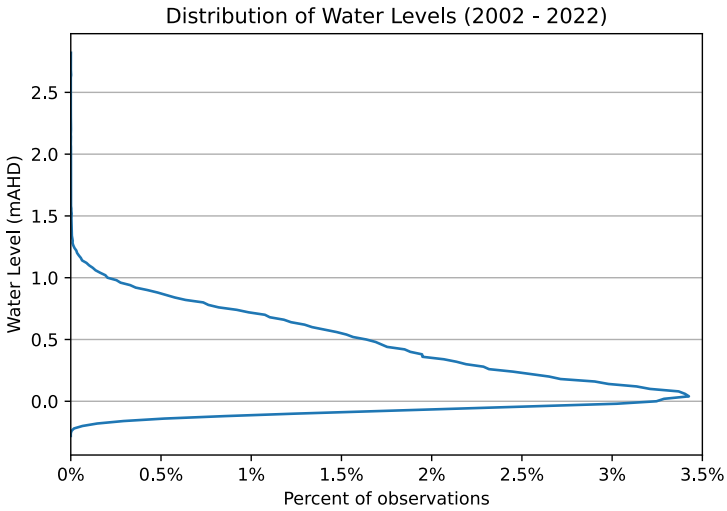
Manly Hydraulics Laboratory

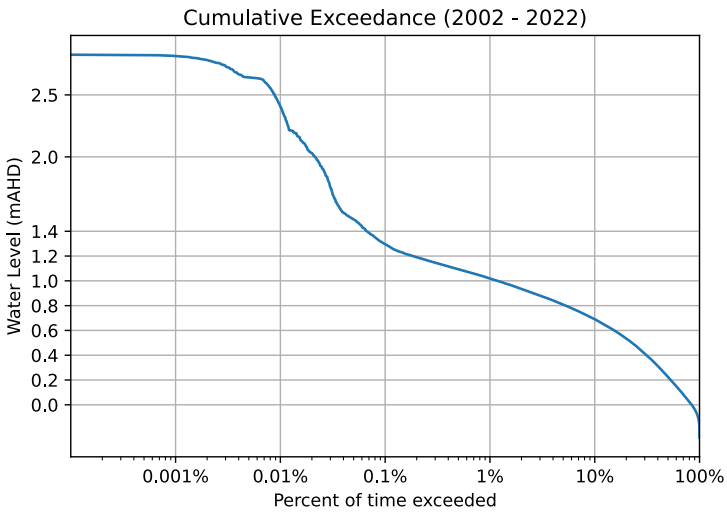
MHL2971
Figure
A18

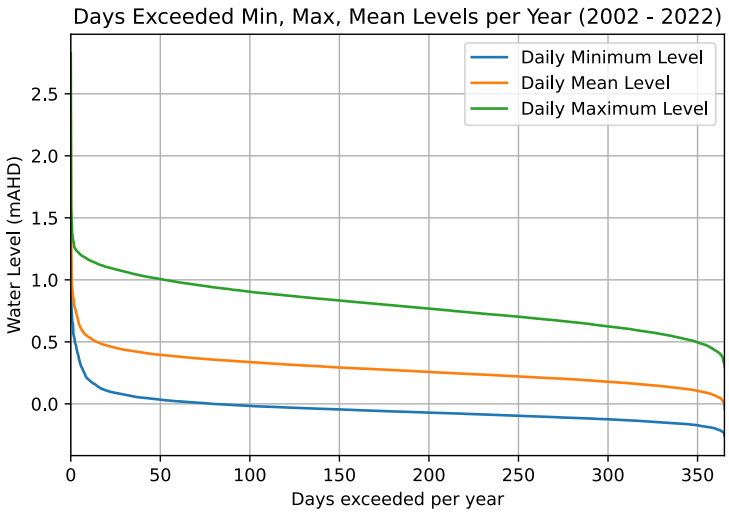
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.8	0.00002	15	15	0.0021947
2.7	0.00004	24	39	0.0057062
2.6	0.00002	12	51	0.007462
2.5	0.00001	9	60	0.0087788
2.4	0.00001	7	67	0.009803
2.3	0.00002	14	81	0.011851
2.2	0.00004	27	108	0.015802
2.1	0.00004	30	138	0.020191
2.0	0.00004	28	166	0.024288
1.9	0.00003	22	188	0.027507
1.8	0.00002	17	205	0.029994
1.7	0.00005	33	238	0.034823
1.6	0.00013	89	327	0.047844
1.5	0.00018	120	447	0.065402
1.4	0.00030	208	655	0.095835
1.3	0.00086	589	1244	0.18201
1.2	0.00285	1950	3194	0.46732
1.1	0.00716	4894	8088	1.1834
1.0	0.01422	9716	17804	2.605
0.9	0.02645	18081	35885	5.2504
0.8	0.04221	28846	64731	9.471
0.7	0.05876	40161	104892	15.347
0.6	0.07307	49942	154834	22.654
0.5	0.08649	59116	213950	31.304
0.4	0.09982	68221	282171	41.285
0.3	0.11796	80624	362795	53.082
0.2	0.14384	98310	461105	67.466
0.1	0.16695	114104	575209	84.161
0.0	0.12694	86758	661967	96.854
-0.1	0.03058	20897	682864	99.912
-0.2	0.00087	592	683456	99.999

Station Information	
Station no.	202475
Station name	Orana Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	553611
Northing	6845534

Summary Statistics	
Time interval (mins)	15
Start of record	08/11/2002
Highest water level recorded (m)	2.825
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.304
Date recorded	02/12/2003







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202475

NSW GOVERNMENT

Orana Bridge (202475)
FREQUENCY DISTRIBUTION ANALYSIS

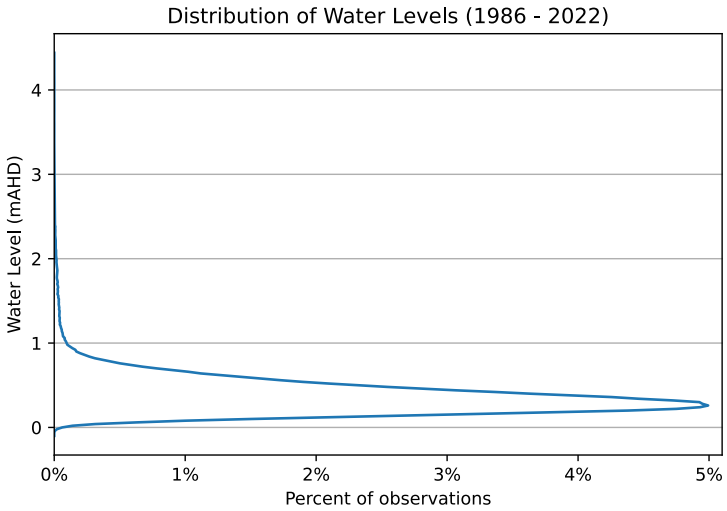
Manly Hydraulics Laboratory

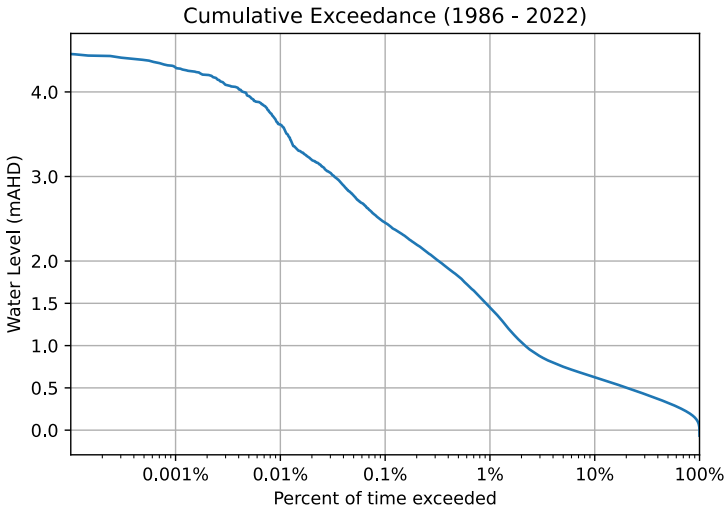
MHL2971
Figure
A19

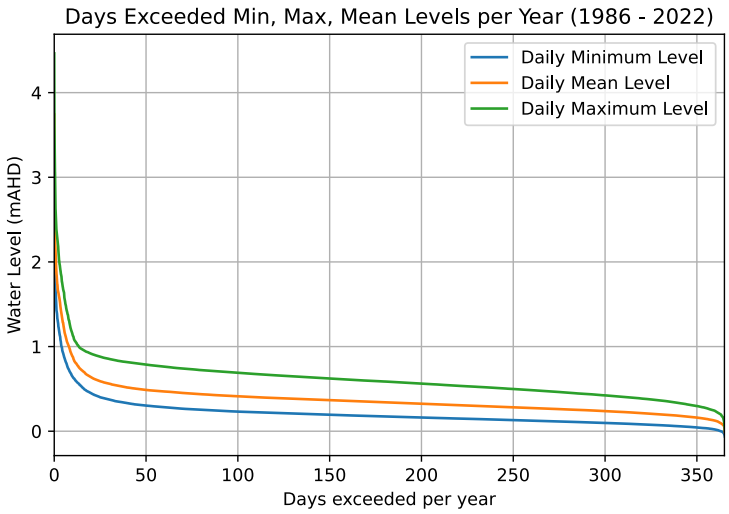
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.5	0.00001	13	13	0.0010242
4.3	0.00002	24	37	0.002915
4.1	0.00003	34	71	0.0055937
3.9	0.00003	40	111	0.0087451
3.7	0.00003	38	149	0.011739
3.5	0.00004	48	197	0.015521
3.3	0.00011	136	333	0.026235
3.1	0.00013	169	502	0.03955
2.9	0.00018	233	735	0.057907
2.7	0.00030	385	1120	0.088239
2.5	0.00065	822	1942	0.153
2.3	0.00099	1262	3204	0.25243
2.1	0.00159	2017	5221	0.41134
1.9	0.00224	2841	8062	0.63516
1.7	0.00283	3598	11660	0.91863
1.5	0.00374	4742	16402	1.2922
1.3	0.00491	6229	22631	1.783
1.1	0.00994	12620	35251	2.7772
0.9	0.03747	47561	82812	6.5243
0.7	0.13817	175371	258183	20.341
0.5	0.35113	445683	703866	55.454
0.3	0.40869	518741	1222607	96.323
0.1	0.03677	46674	1269281	100

Station Information	
Station no.	202400
Station name	Billinudgel
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	551554
Northing	6847116

Summary Statistics	
Time interval (mins)	15
Start of record	22/01/1986
Highest water level recorded (m)	4.451
Date recorded	31/03/2017
Lowest water level recorded (m)	-0.119
Date recorded	28/10/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202400

NSW GOVERNMENT

Billinudgel (202400)
FREQUENCY DISTRIBUTION ANALYSIS

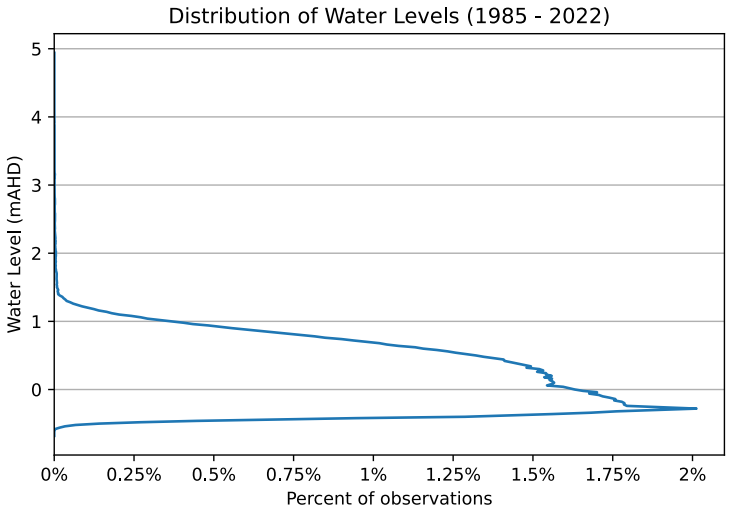
Manly Hydraulics Laboratory

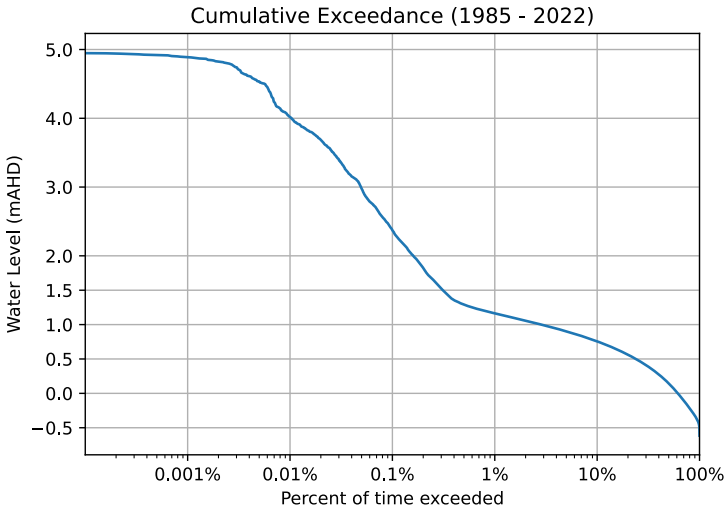
MHL2971
Figure
A20

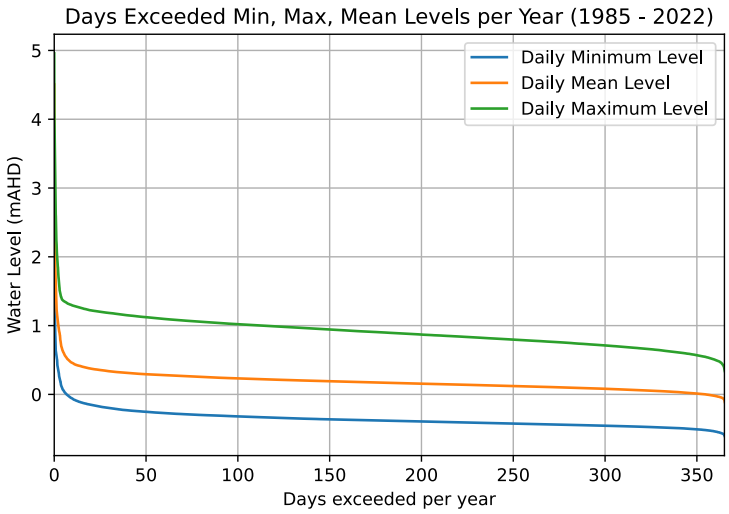
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.0	0.00002	31	31	0.0024681
4.8	0.00002	22	53	0.0042197
4.6	0.00002	26	79	0.0062897
4.4	0.00001	12	91	0.0072451
4.2	0.00003	39	130	0.01035
4.0	0.00006	73	203	0.016162
3.8	0.00007	86	289	0.023009
3.6	0.00007	88	377	0.030015
3.4	0.00007	92	469	0.03734
3.2	0.00012	151	620	0.049362
3.0	0.00010	123	743	0.059155
2.8	0.00017	215	958	0.076273
2.6	0.00021	264	1222	0.097291
2.4	0.00026	325	1547	0.12317
2.2	0.00037	468	2015	0.16043
2.0	0.00044	556	2571	0.20469
1.8	0.00065	815	3386	0.26958
1.6	0.00096	1200	4586	0.36512
1.4	0.00427	5365	9951	0.79226
1.2	0.02050	25751	35702	2.8425
1.0	0.05399	67818	103520	8.2419
0.8	0.09522	119603	223123	17.764
0.6	0.12999	163264	386387	30.763
0.4	0.14975	188093	574480	45.738
0.2	0.15645	196503	770983	61.383
0.0	0.17122	215059	986042	78.505
-0.2	0.17597	221027	1207069	96.103
-0.4	0.03897	48941	1256010	99.999
-0.6	0.00001	10	1256020	100

Station Information	
Station no.	202402
Station name	Mullumbimby
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	548580
Northing	6841766

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1985
Highest water level recorded (m)	4.956
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.700
Date recorded	21/11/1988







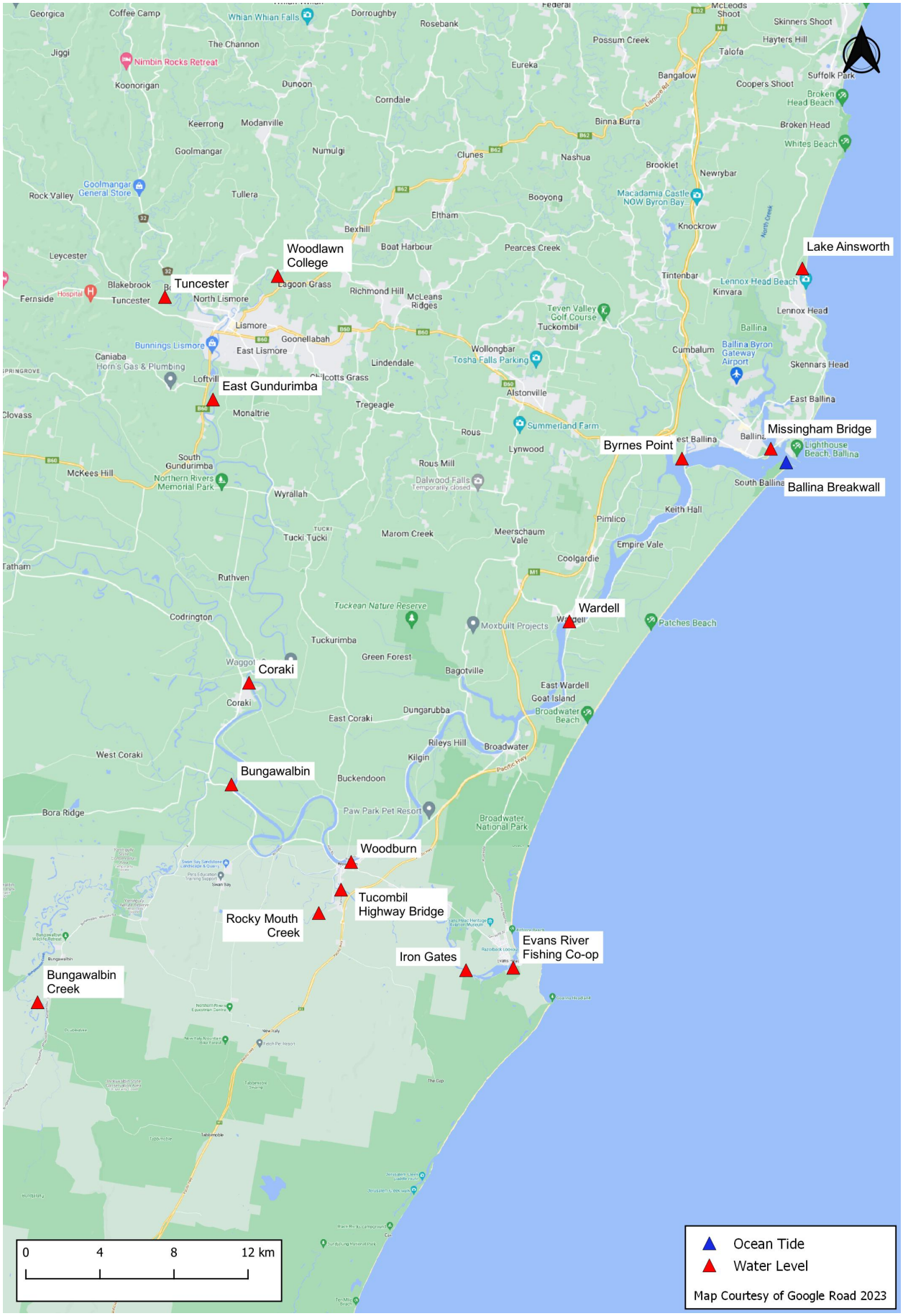
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-202402

NSW GOVERNMENT

Mullumbimby (202402)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A21



NSW GOVERNMENT

STATION LOCATIONS
RICHMOND RIVER REGION

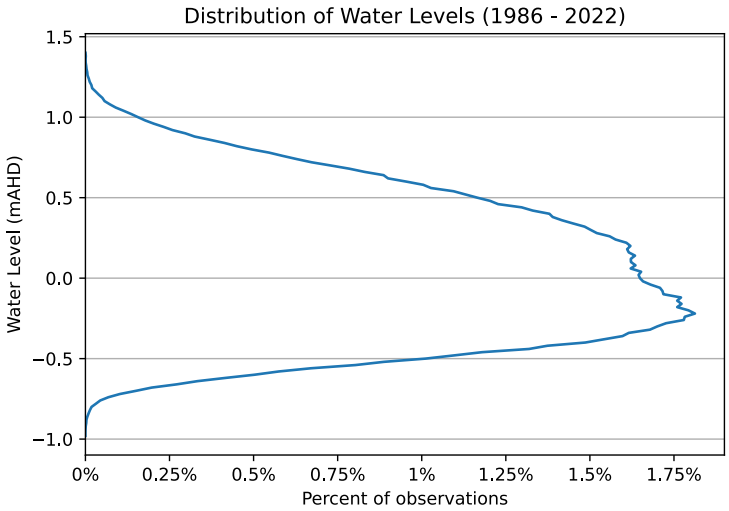
Manly Hydraulics Laboratory

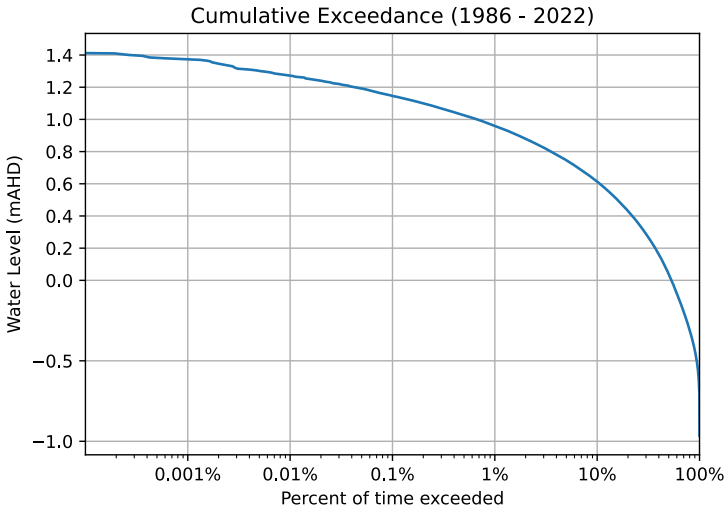
MHL2971
Figure
A22

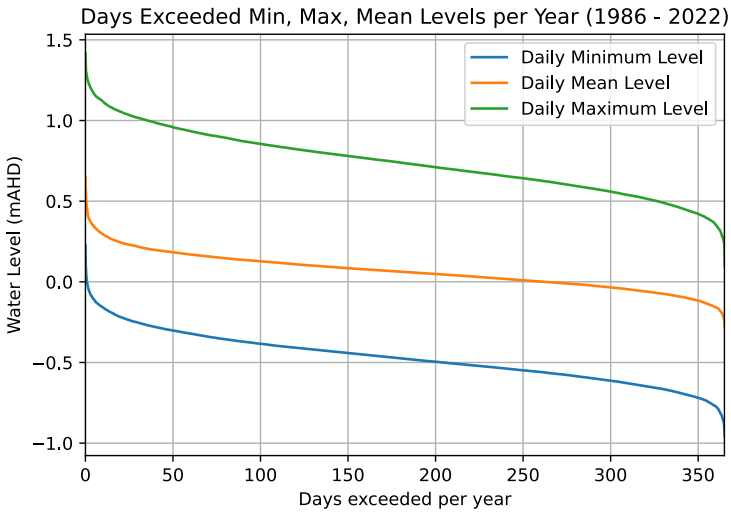
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00005	56	56	0.0048461
1.3	0.00038	435	491	0.04249
1.2	0.00158	1831	2322	0.20094
1.1	0.00469	5421	7743	0.67006
1.0	0.01029	11887	19630	1.6987
0.9	0.01854	21429	41059	3.5531
0.8	0.02927	33819	74878	6.4798
0.7	0.04131	47737	122615	10.611
0.6	0.05210	60210	182825	15.821
0.5	0.06223	71907	254732	22.044
0.4	0.07119	82270	337002	29.163
0.3	0.07766	89743	426745	36.929
0.2	0.08103	93632	520377	45.032
0.1	0.08176	94479	614856	53.208
0.0	0.08411	97197	712053	61.619
-0.1	0.08781	101474	813527	70.401
-0.2	0.08893	102768	916295	79.294
-0.3	0.08133	93987	1010282	87.427
-0.4	0.06455	74597	1084879	93.883
-0.5	0.03947	45606	1130485	97.829
-0.6	0.01720	19879	1150364	99.55
-0.7	0.00397	4582	1154946	99.946
-0.8	0.00050	577	1155523	99.996
-0.9	0.00004	41	1155564	100

Station Information	
Station no.	203425
Station name	Ballina Breakwall
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	556992
Northing	6805681

Summary Statistics	
Time interval (mins)	15
Start of record	19/03/1986
Highest water level recorded (m)	1.414
Date recorded	04/01/2022
Lowest water level recorded (m)	-1.000
Date recorded	10/08/1999







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203425

NSW GOVERNMENT

Ballina Breakwall (203425)
FREQUENCY DISTRIBUTION ANALYSIS

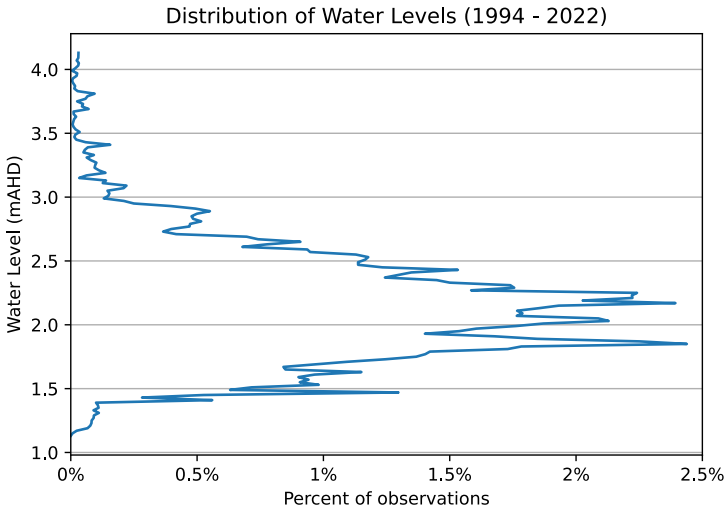
Manly Hydraulics Laboratory

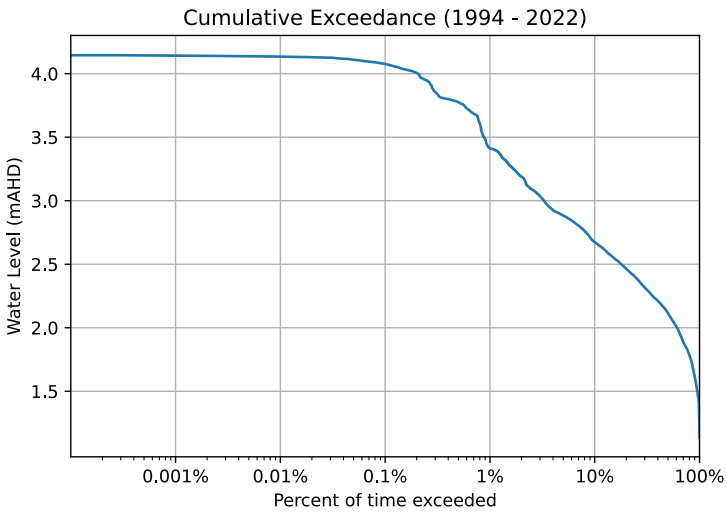
MHL2971
Figure
A23

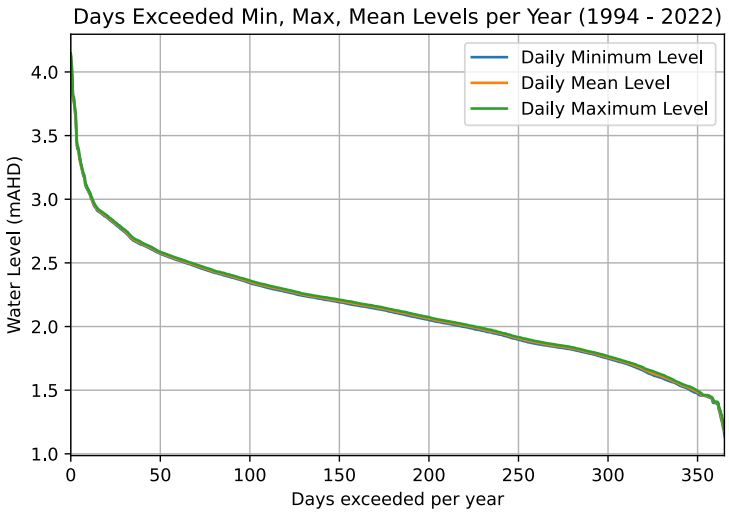
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.1	0.00145	1307	1307	0.14468
4.0	0.00073	660	1967	0.21774
3.9	0.00120	1081	3048	0.33741
3.8	0.00261	2359	5407	0.59855
3.7	0.00147	1327	6734	0.74544
3.6	0.00070	636	7370	0.81585
3.5	0.00221	1998	9368	1.037
3.4	0.00363	3282	12650	1.4003
3.3	0.00452	4081	16731	1.8521
3.2	0.00492	4446	21177	2.3443
3.1	0.00873	7882	29059	3.2168
3.0	0.01317	11894	40953	4.5334
2.9	0.02475	22358	63311	7.0084
2.8	0.02169	19593	82904	9.1773
2.7	0.03707	33485	116389	12.884
2.6	0.05066	45767	162156	17.95
2.5	0.06317	57064	219220	24.267
2.4	0.07022	63431	282651	31.289
2.3	0.09863	89102	371753	41.152
2.2	0.10207	92207	463960	51.36
2.1	0.09489	85721	549681	60.849
2.0	0.08178	73872	623553	69.026
1.9	0.09877	89220	712773	78.903
1.8	0.06960	62877	775650	85.863
1.7	0.04765	43042	818692	90.628
1.6	0.04589	41453	860145	95.217
1.5	0.03445	31121	891266	98.662
1.4	0.00706	6381	897647	99.368
1.3	0.00425	3838	901485	99.793
1.2	0.00146	1317	902802	99.939

Station Information	
Station no.	203455
Station name	Lake Ainsworth
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	557863
Northing	6816160

Summary Statistics	
Time interval (mins)	15
Start of record	30/09/1994
Highest water level recorded (m)	4.143
Date recorded	03/04/2022
Lowest water level recorded (m)	1.109
Date recorded	16/01/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203455

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Lake Ainsworth (203455)
FREQUENCY DISTRIBUTION ANALYSIS

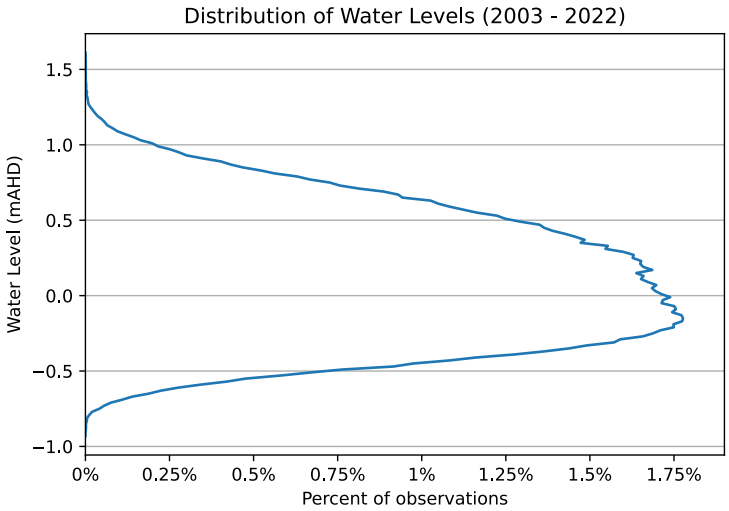
Manly Hydraulics Laboratory

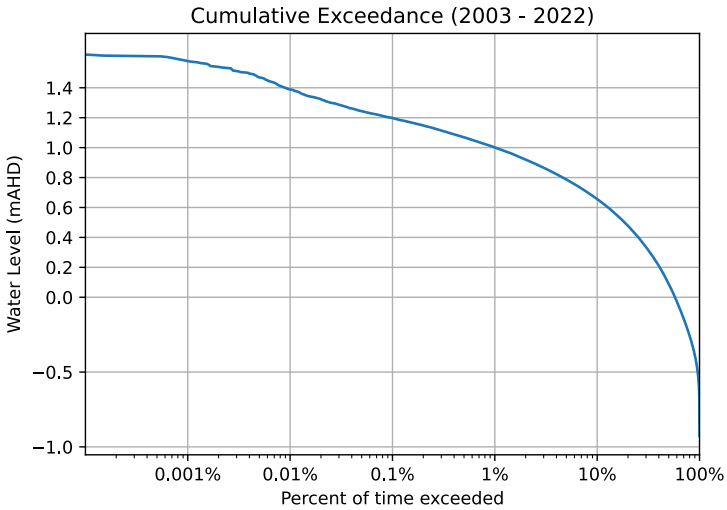
MHL2971
Figure
A24

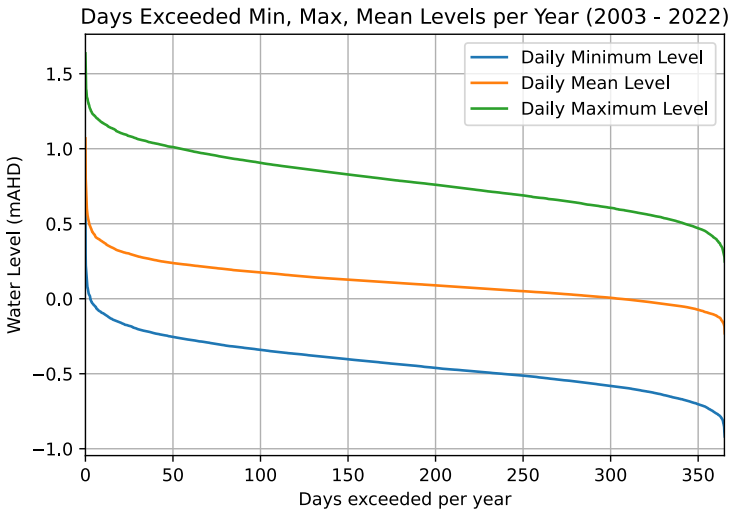
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00003	21	21	0.0032506
1.5	0.00005	32	53	0.008204
1.4	0.00016	103	156	0.024148
1.3	0.00072	466	622	0.096281
1.2	0.00262	1691	2313	0.35803
1.1	0.00660	4264	6577	1.0181
1.0	0.01317	8509	15086	2.3352
0.9	0.02280	14729	29815	4.6151
0.8	0.03470	22418	52233	8.0853
0.7	0.04713	30448	82681	12.798
0.6	0.05751	37151	119832	18.549
0.5	0.06718	43399	163231	25.267
0.4	0.07467	48237	211468	32.734
0.3	0.08096	52300	263768	40.829
0.2	0.08304	53649	317417	49.134
0.1	0.08443	54547	371964	57.577
0.0	0.08625	55718	427682	66.202
-0.1	0.08832	57057	484739	75.034
-0.2	0.08484	54808	539547	83.518
-0.3	0.07306	47197	586744	90.823
-0.4	0.05156	33311	620055	95.98
-0.5	0.02700	17441	637496	98.679
-0.6	0.01049	6779	644275	99.729
-0.7	0.00252	1625	645900	99.98
-0.8	0.00018	118	646018	99.999
-0.9	0.00001	4	646022	99.999

Station Information	
Station no.	203465
Station name	Missingham Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	556161
Northing	6806420

Summary Statistics	
Time interval (mins)	15
Start of record	28/11/2003
Highest water level recorded (m)	1.633
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.953
Date recorded	06/11/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203465

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Missingham Bridge (203465)
FREQUENCY DISTRIBUTION ANALYSIS

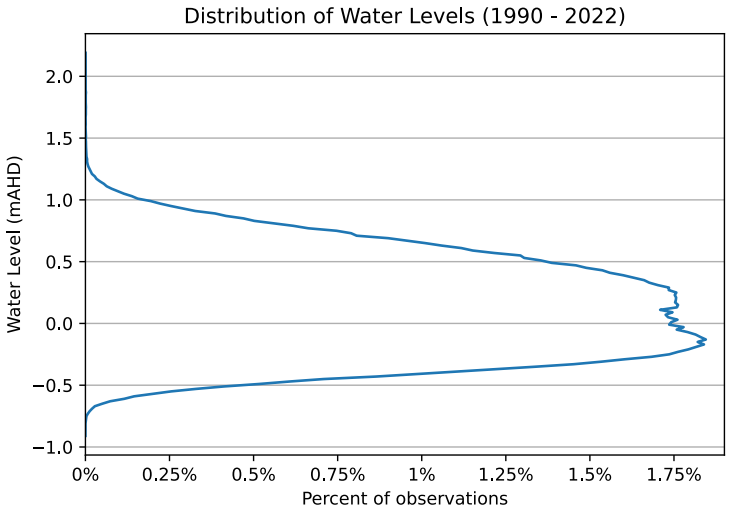
Manly Hydraulics Laboratory

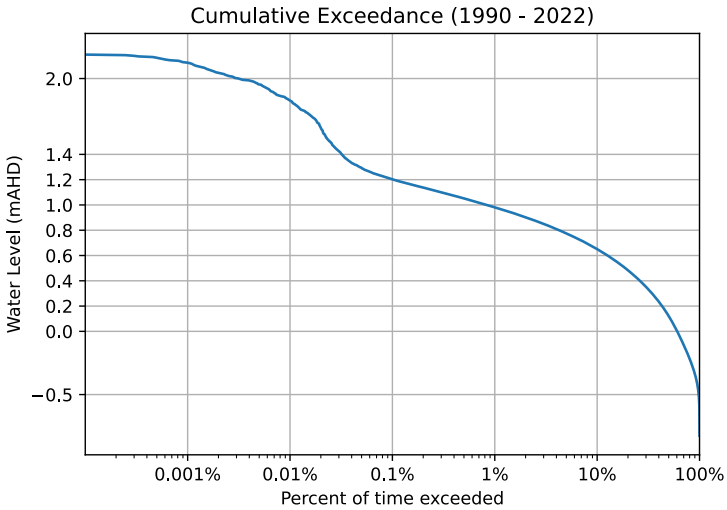
MHL2971
Figure
A25

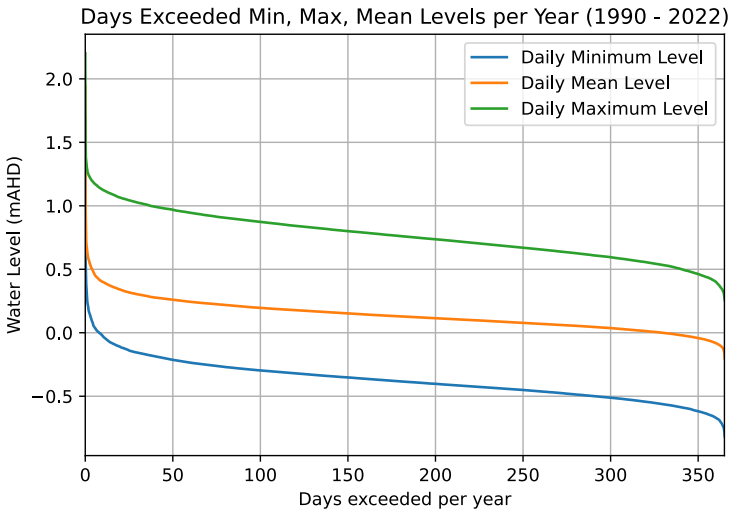
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00001	13	13	0.0011758
2.1	0.00002	21	34	0.0030751
2.0	0.00003	37	71	0.0064215
1.9	0.00004	49	120	0.010853
1.8	0.00005	59	179	0.016189
1.7	0.00004	45	224	0.020259
1.6	0.00004	49	273	0.024691
1.5	0.00007	80	353	0.031927
1.4	0.00016	175	528	0.047754
1.3	0.00054	598	1126	0.10184
1.2	0.00199	2199	3325	0.30073
1.1	0.00533	5898	9223	0.83416
1.0	0.01204	13317	22540	2.0386
0.9	0.02211	24447	46987	4.2497
0.8	0.03512	38835	85822	7.7621
0.7	0.04886	54018	139840	12.648
0.6	0.06194	68489	208329	18.842
0.5	0.07321	80944	289273	26.163
0.4	0.08206	90729	380002	34.369
0.3	0.08720	96409	476411	43.088
0.2	0.08747	96711	573122	51.835
0.1	0.08711	96313	669435	60.546
0.0	0.08837	97704	767139	69.383
-0.1	0.09137	101019	868158	78.52
-0.2	0.08692	96102	964260	87.211
-0.3	0.06918	76489	1040749	94.129
-0.4	0.03967	43858	1084607	98.096
-0.5	0.01527	16885	1101492	99.623
-0.6	0.00342	3780	1105272	99.965
-0.7	0.00034	381	1105653	99.999
-0.8	0.00000	5	1105658	100

Station Information	
Station no.	203461
Station name	Byrnes Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	551362
Northing	6805886

Summary Statistics	
Time interval (mins)	15
Start of record	14/11/1990
Highest water level recorded (m)	2.199
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.927
Date recorded	09/02/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203461

NSW GOVERNMENT

Byrnes Point (203461)
FREQUENCY DISTRIBUTION ANALYSIS

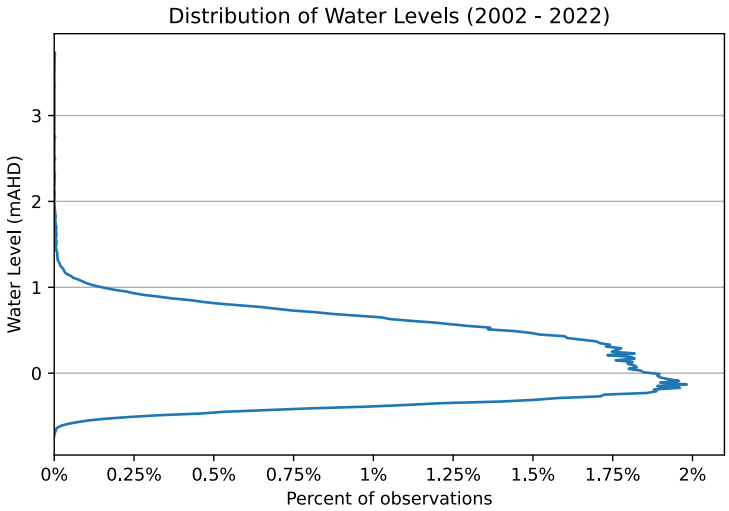
Manly Hydraulics Laboratory

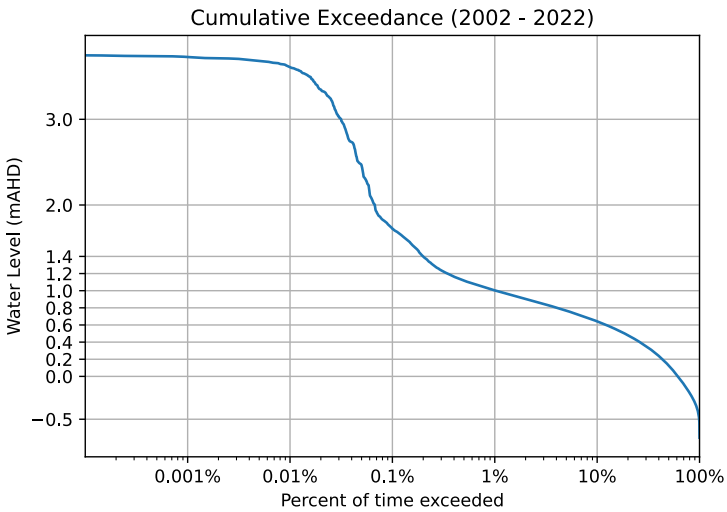
MHL2971
Figure
A26

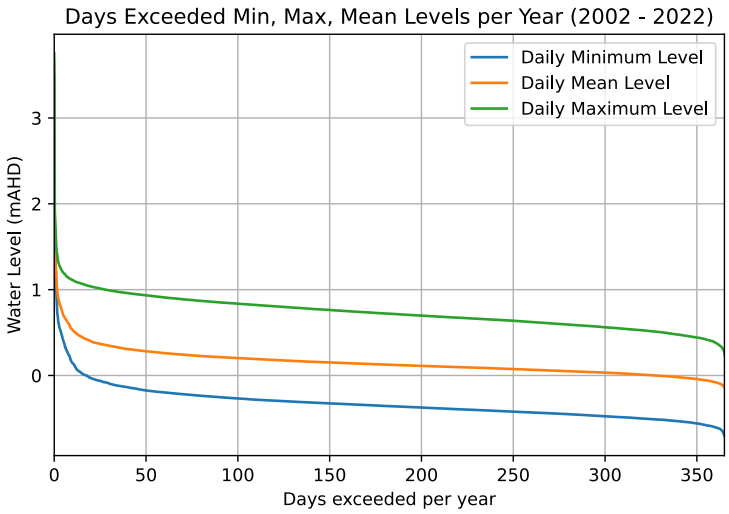
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.9	0.00004	26	26	0.003602
3.7	0.00012	85	111	0.015378
3.5	0.00007	51	162	0.022443
3.3	0.00006	41	203	0.028123
3.1	0.00006	45	248	0.034358
2.9	0.00008	56	304	0.042116
2.7	0.00005	33	337	0.046688
2.5	0.00008	58	395	0.054723
2.3	0.00006	44	439	0.060818
2.1	0.00010	75	514	0.071209
1.9	0.00035	251	765	0.10598
1.7	0.00062	449	1214	0.16819
1.5	0.00081	585	1799	0.24923
1.3	0.00299	2156	3955	0.54792
1.1	0.01518	10960	14915	2.0663
0.9	0.05322	38415	53330	7.3883
0.7	0.11192	80785	134115	18.58
0.5	0.16008	115552	249667	34.589
0.3	0.17800	128482	378149	52.388
0.1	0.18597	134235	512384	70.985
-0.1	0.18592	134202	646586	89.577
-0.3	0.09597	69274	715860	99.174
-0.5	0.00825	5953	721813	99.999
-0.7	0.00001	7	721820	100

Station Information	
Station no.	203468
Station name	Wardell
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	545282
Northing	6797087

Summary Statistics	
Time interval (mins)	15
Start of record	27/10/2002
Highest water level recorded (m)	3.751
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.746
Date recorded	17/10/2012







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203468

NSW GOVERNMENT

Wardell (203468)
FREQUENCY DISTRIBUTION ANALYSIS

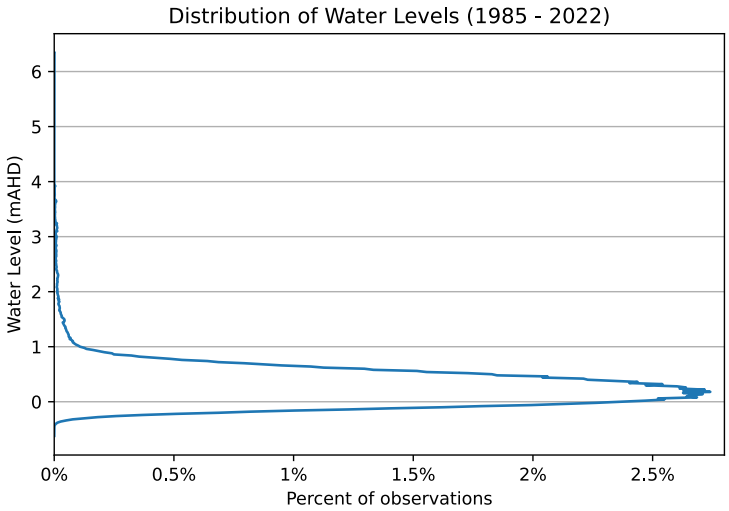
Manly Hydraulics Laboratory

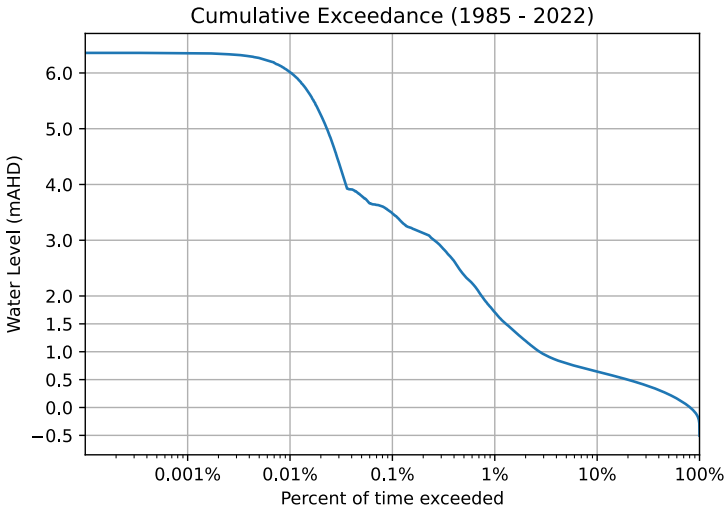
MHL2971
Figure
A27

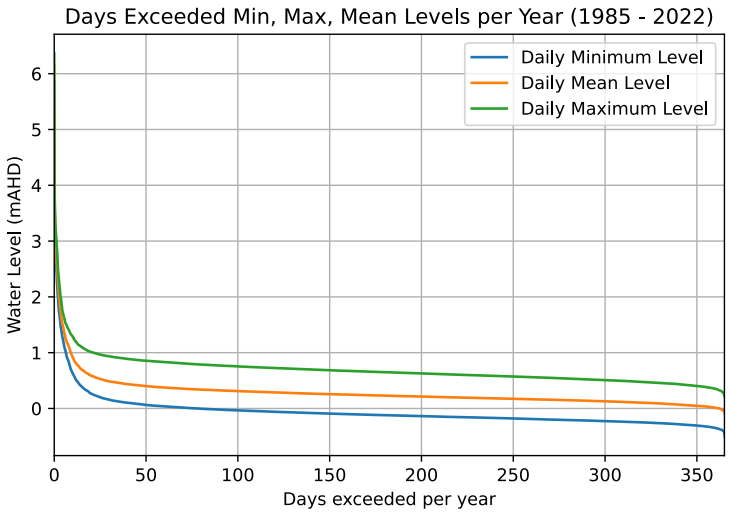
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.5	0.00004	52	52	0.0041404
6.3	0.00004	55	107	0.0085196
6.1	0.00003	42	149	0.011864
5.9	0.00003	34	183	0.014571
5.7	0.00002	31	214	0.017039
5.5	0.00002	29	243	0.019348
5.3	0.00002	31	274	0.021817
5.1	0.00002	29	303	0.024126
4.9	0.00002	29	332	0.026435
4.7	0.00002	29	361	0.028744
4.5	0.00002	30	391	0.031132
4.3	0.00002	31	422	0.033601
4.1	0.00008	103	525	0.041802
3.9	0.00016	199	724	0.057647
3.7	0.00040	504	1228	0.097777
3.5	0.00030	375	1603	0.12764
3.3	0.00089	1119	2722	0.21673
3.1	0.00079	996	3718	0.29604
2.9	0.00075	944	4662	0.3712
2.7	0.00073	918	5580	0.44429
2.5	0.00103	1299	6879	0.54772
2.3	0.00136	1713	8592	0.68412
2.1	0.00133	1675	10267	0.81749
1.9	0.00192	2409	12676	1.0093
1.7	0.00274	3435	16111	1.2828
1.5	0.00427	5362	21473	1.7097
1.3	0.00602	7566	29039	2.3122
1.1	0.01148	14420	43459	3.4603
0.9	0.04136	51947	95406	7.5965
0.7	0.12246	153801	249207	19.843
0.5	0.21940	275554	524761	41.783
0.3	0.26414	331740	856501	68.197
0.1	0.23411	294028	1150529	91.608
-0.1	0.08086	101548	1252077	99.694
-0.3	0.00306	3844	1255921	100
-0.5	0.00000	2	1255923	100

Station Information	
Station no.	203412
Station name	Woodburn
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	533281
Northing	6784097

Summary Statistics	
Time interval (mins)	15
Start of record	10/09/1985
Highest water level recorded (m)	6.362
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.645
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203412

NSW GOVERNMENT

Woodburn (203412)
FREQUENCY DISTRIBUTION ANALYSIS

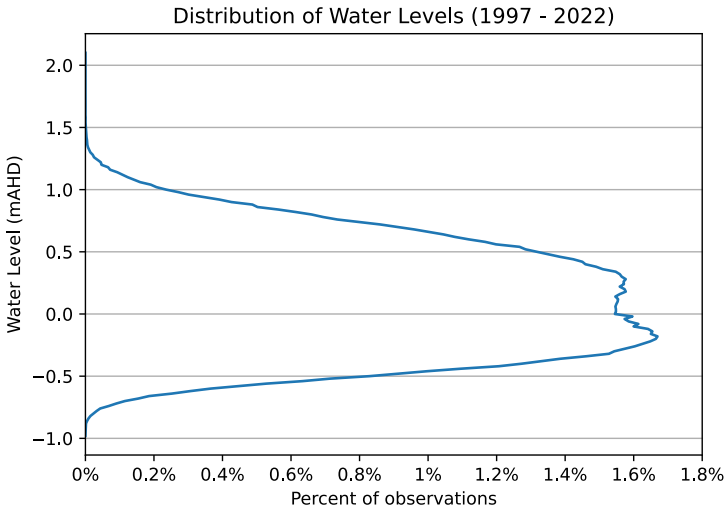
Manly Hydraulics Laboratory

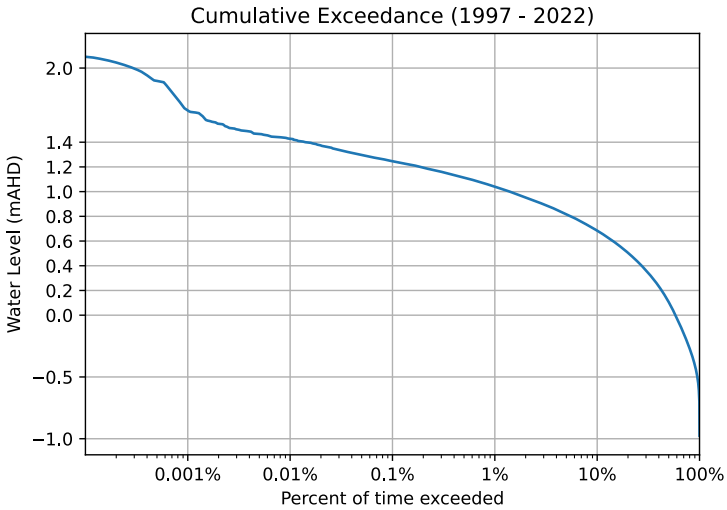
MHL2971
Figure
A28

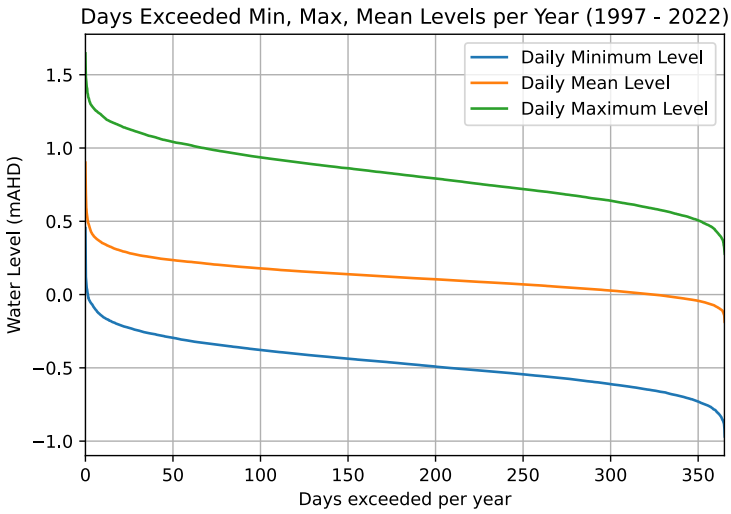
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00000	2	2	0.00023287
2.0	0.00000	2	4	0.00046573
1.9	0.00000	2	6	0.0006986
1.8	0.00000	1	7	0.00081503
1.7	0.00001	5	12	0.0013972
1.6	0.00002	15	27	0.0031437
1.5	0.00011	93	120	0.013972
1.4	0.00034	289	409	0.047621
1.3	0.00141	1212	1621	0.18874
1.2	0.00386	3314	4935	0.5746
1.1	0.00823	7070	12005	1.3978
1.0	0.01546	13282	25287	2.9442
0.9	0.02593	22268	47555	5.537
0.8	0.03745	32162	79717	9.2817
0.7	0.04993	42886	122603	14.275
0.6	0.06034	51828	174431	20.31
0.5	0.06928	59499	233930	27.237
0.4	0.07567	64987	298917	34.804
0.3	0.07843	67363	366280	42.647
0.2	0.07811	67083	433363	50.458
0.1	0.07746	66525	499888	58.203
0.0	0.07914	67973	567861	66.118
-0.1	0.08216	70563	638424	74.334
-0.2	0.08114	69691	708115	82.448
-0.3	0.07249	62256	770371	89.697
-0.4	0.05484	47103	817474	95.181
-0.5	0.03150	27051	844525	98.331
-0.6	0.01264	10854	855379	99.594
-0.7	0.00349	2999	858378	99.944
-0.8	0.00054	463	858841	99.997
-0.9	0.00002	21	858862	100

Station Information	
Station no.	203462
Station name	Evans River Fishing Co-op
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	542250
Northing	6778375

Summary Statistics	
Time interval (mins)	15
Start of record	05/03/1997
Highest water level recorded (m)	2.124
Date recorded	01/03/2022
Lowest water level recorded (m)	-1.005
Date recorded	17/09/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203462

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Evans River Fishing Co-op (203462)
FREQUENCY DISTRIBUTION ANALYSIS

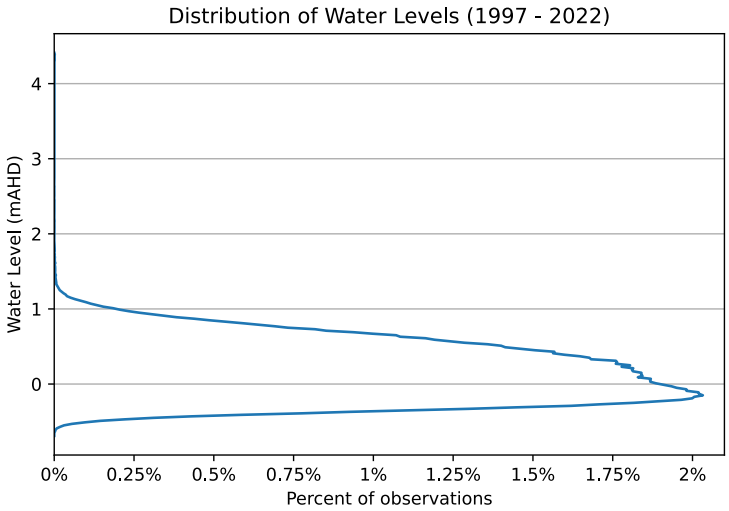
Manly Hydraulics Laboratory

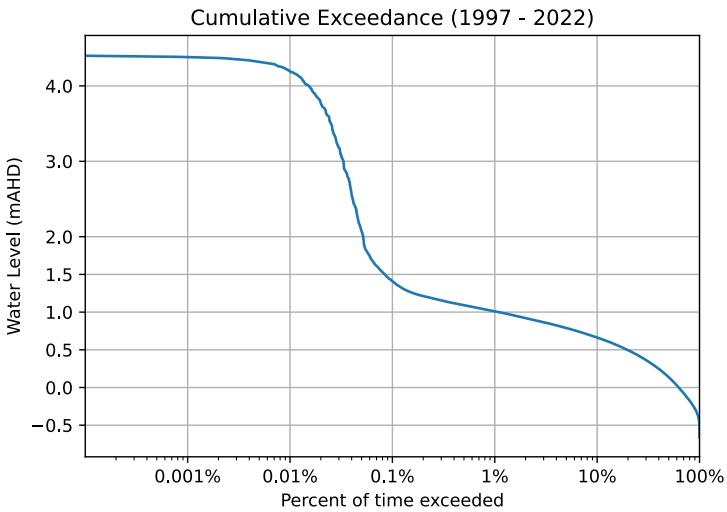
MHL2971
Figure
A29

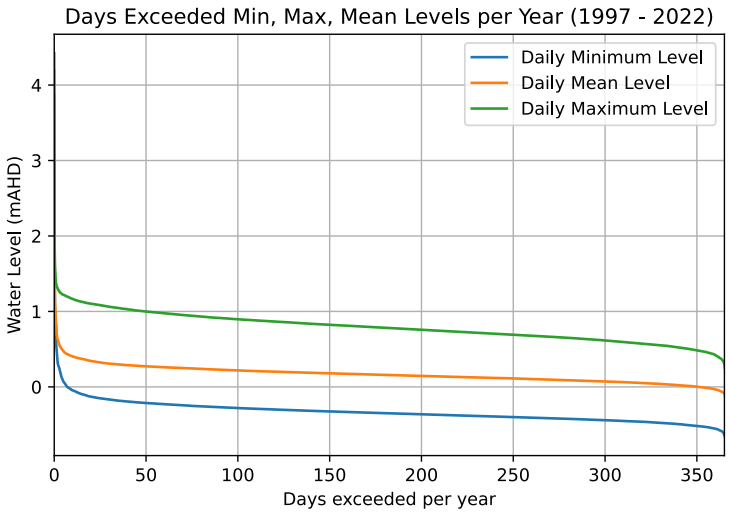
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.5	0.00006	52	52	0.0062338
4.3	0.00007	57	109	0.013067
4.1	0.00004	37	146	0.017503
3.9	0.00004	36	182	0.021818
3.7	0.00003	27	209	0.025055
3.5	0.00003	26	235	0.028172
3.3	0.00003	25	260	0.031169
3.1	0.00003	23	283	0.033926
2.9	0.00005	39	322	0.038602
2.7	0.00002	20	342	0.040999
2.5	0.00004	34	376	0.045075
2.3	0.00004	33	409	0.049031
2.1	0.00004	31	440	0.052748
1.9	0.00009	77	517	0.061978
1.7	0.00022	186	703	0.084276
1.5	0.00048	399	1102	0.13211
1.3	0.00330	2749	3851	0.46166
1.1	0.01900	15853	19704	2.3621
0.9	0.05909	49287	68991	8.2707
0.7	0.11459	95586	164577	19.73
0.5	0.15689	130872	295449	35.419
0.3	0.18032	150420	445869	53.451
0.1	0.19016	158624	604493	72.467
-0.1	0.19266	160713	765206	91.734
-0.3	0.07985	66607	831813	99.719
-0.5	0.00281	2348	834161	100

Station Information	
Station no.	203475
Station name	Iron Gates
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	539700
Northing	6778241

Summary Statistics	
Time interval (mins)	15
Start of record	21/08/1997
Highest water level recorded (m)	4.418
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.709
Date recorded	26/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203475

NSW GOVERNMENT

Iron Gates (203475)
FREQUENCY DISTRIBUTION ANALYSIS

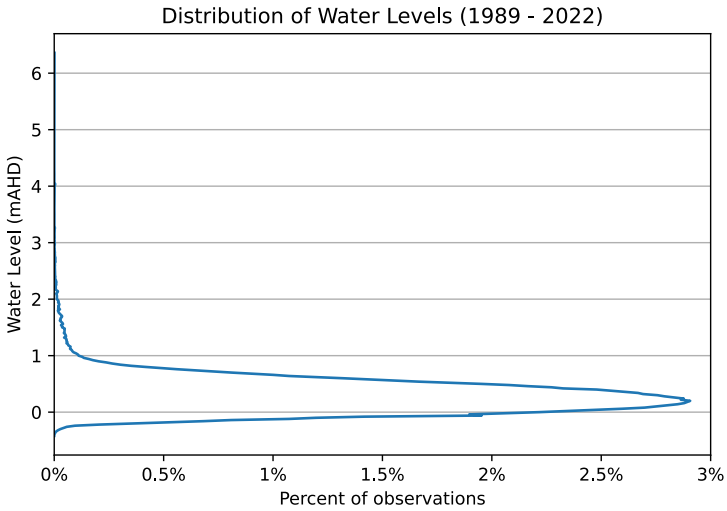
Manly Hydraulics Laboratory

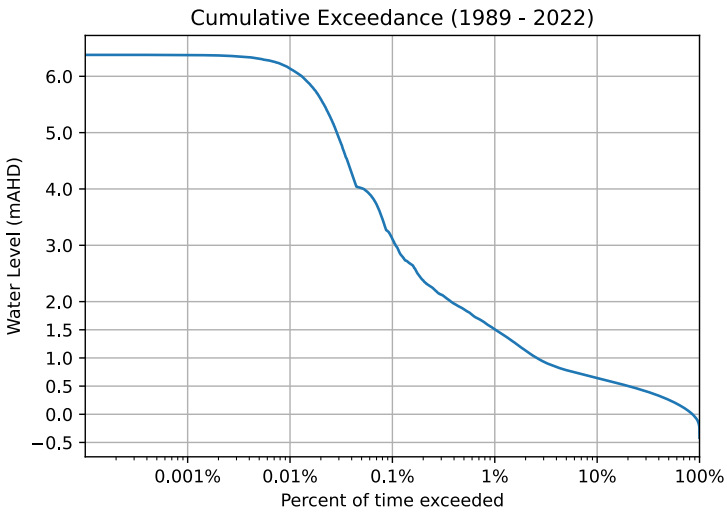
MHL2971
Figure
A30

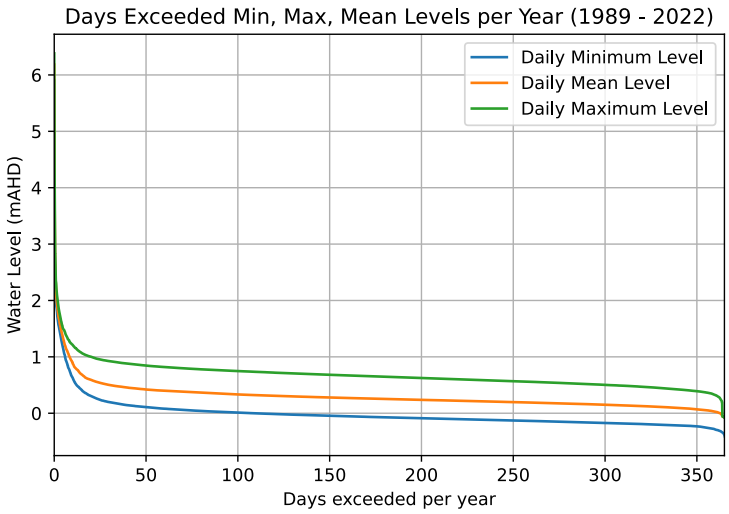
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.4	0.00009	92	92	0.0086904
6.2	0.00004	47	139	0.01313
6.0	0.00004	38	177	0.01672
5.8	0.00003	34	211	0.019931
5.6	0.00003	31	242	0.02286
5.4	0.00003	32	274	0.025882
5.2	0.00003	31	305	0.028811
5.0	0.00003	31	336	0.031739
4.8	0.00003	30	366	0.034573
4.6	0.00004	38	404	0.038162
4.4	0.00003	36	440	0.041563
4.2	0.00011	116	556	0.05252
4.0	0.00014	148	704	0.066501
3.8	0.00009	91	795	0.075097
3.6	0.00007	77	872	0.08237
3.4	0.00012	132	1004	0.094839
3.2	0.00013	137	1141	0.10778
3.0	0.00017	185	1326	0.12526
2.8	0.00038	400	1726	0.16304
2.6	0.00031	323	2049	0.19355
2.4	0.00069	727	2776	0.26222
2.2	0.00111	1170	3946	0.37274
2.0	0.00197	2082	6028	0.56941
1.8	0.00266	2818	8846	0.8356
1.6	0.00401	4241	13087	1.2362
1.4	0.00528	5592	18679	1.7644
1.2	0.00807	8543	27222	2.5714
1.0	0.02070	21909	49131	4.641
0.8	0.07807	82652	131783	12.448
0.6	0.18569	196580	328363	31.018
0.4	0.27101	286903	615266	58.119
0.2	0.27221	288174	903440	85.34
0.0	0.13829	146396	1049836	99.169
-0.2	0.00831	8797	1058633	100
-0.4	0.00000	3	1058636	100

Station Information	
Station no.	203480
Station name	Tucombil Highway Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	532949
Northing	6782596

Summary Statistics	
Time interval (mins)	15
Start of record	01/12/1989
Highest water level recorded (m)	6.380
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.440
Date recorded	28/11/2012







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203480

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Tucombil Highway Bridge (203480) FREQUENCY DISTRIBUTION ANALYSIS

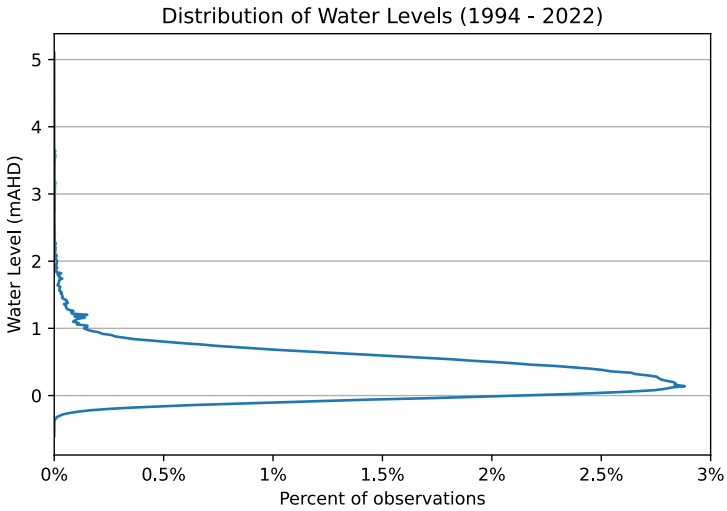
Manly Hydraulics Laboratory

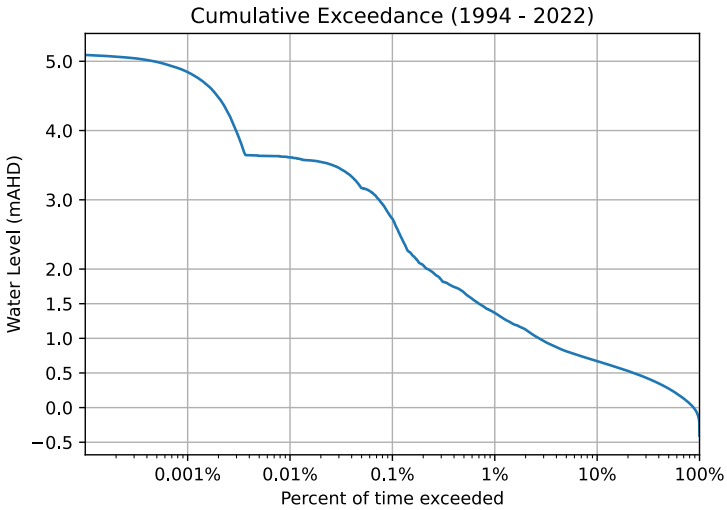
MHL2971
Figure
A31

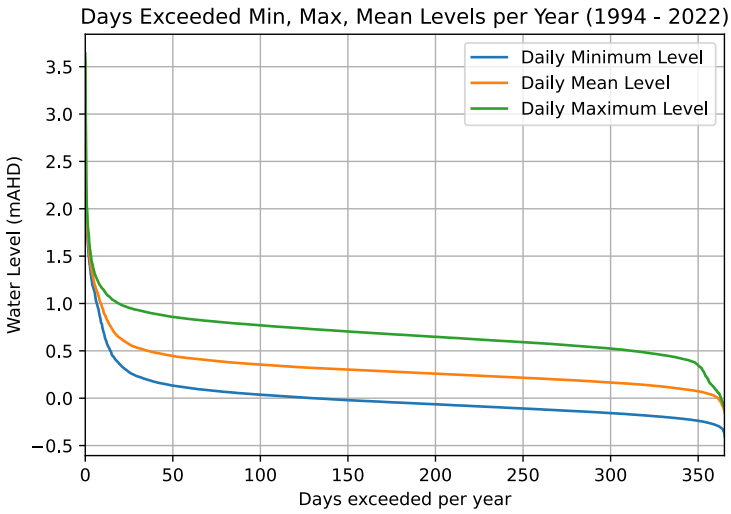
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.2	0.00001	5	5	0.00052721
5.0	0.00001	6	11	0.0011599
4.8	0.00001	6	17	0.0017925
4.6	0.00000	4	21	0.0022143
4.4	0.00000	4	25	0.0026361
4.2	0.00000	4	29	0.0030578
4.0	0.00000	3	32	0.0033742
3.8	0.00008	80	112	0.01181
3.6	0.00023	222	334	0.035218
3.4	0.00013	122	456	0.048082
3.2	0.00026	246	702	0.074021
3.0	0.00018	169	871	0.091841
2.8	0.00018	169	1040	0.10966
2.6	0.00018	170	1210	0.12759
2.4	0.00029	277	1487	0.15679
2.2	0.00063	601	2088	0.22016
2.0	0.00121	1143	3231	0.34069
1.8	0.00224	2124	5355	0.56465
1.6	0.00343	3254	8609	0.90776
1.4	0.00634	6015	14624	1.542
1.2	0.01187	11259	25883	2.7292
1.0	0.02550	24182	50065	5.279
0.8	0.08975	85118	135183	14.254
0.6	0.19417	184143	319326	33.671
0.4	0.26592	252195	571521	60.263
0.2	0.27217	258117	829638	87.479
0.0	0.11850	112382	942020	99.329
-0.2	0.00670	6358	948378	100
-0.4	0.00000	2	948380	100

Station Information	
Station no.	203432
Station name	Rocky Mouth Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	531748
Northing	6781331

Summary Statistics	
Time interval (mins)	15
Start of record	02/09/1994
Highest water level recorded (m)	5.118
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.625
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203432

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Rocky Mouth Creek (203432)
FREQUENCY DISTRIBUTION ANALYSIS

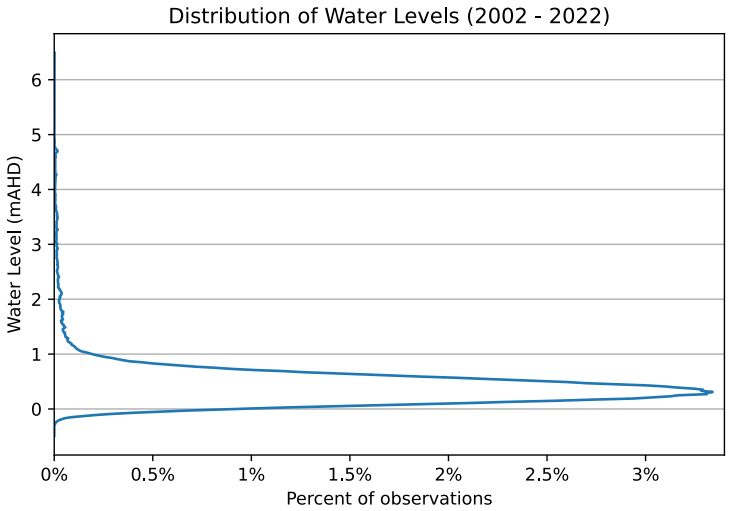
Manly Hydraulics Laboratory

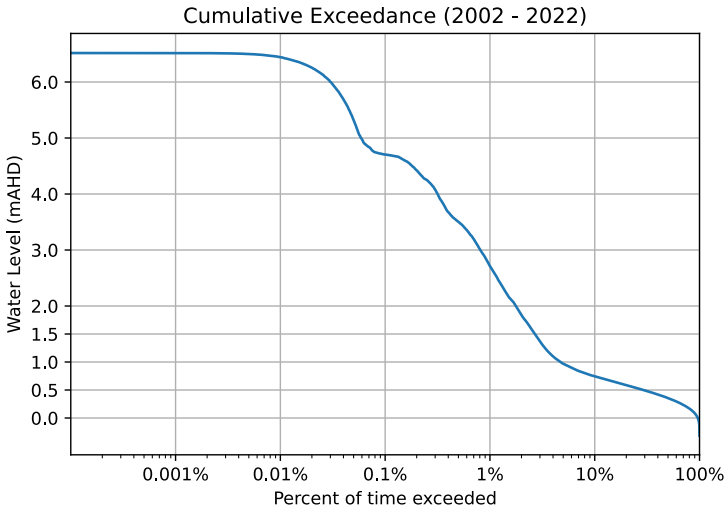
MHL2971
Figure
A32

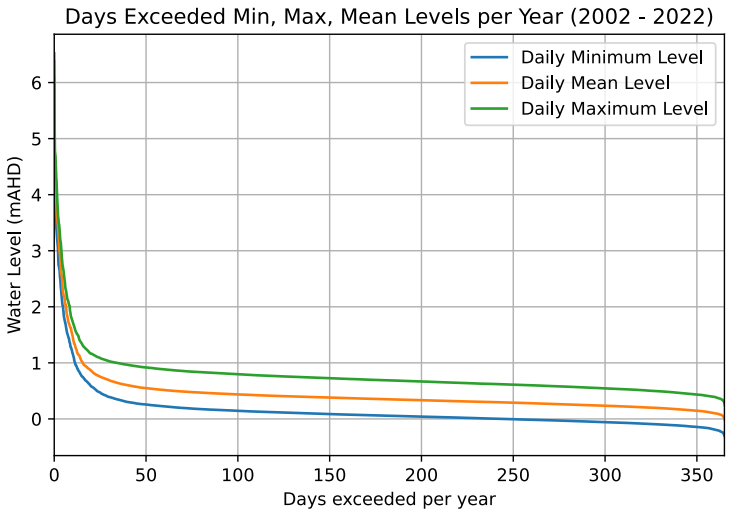
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.5	0.00013	83	83	0.012631
6.3	0.00009	57	140	0.021306
6.1	0.00007	47	187	0.028458
5.9	0.00006	40	227	0.034546
5.7	0.00006	37	264	0.040176
5.5	0.00005	34	298	0.045351
5.3	0.00005	32	330	0.050221
5.1	0.00008	53	383	0.058286
4.9	0.00040	265	648	0.098615
4.7	0.00077	507	1155	0.17577
4.5	0.00048	317	1472	0.22401
4.3	0.00066	431	1903	0.2896
4.1	0.00043	281	2184	0.33237
3.9	0.00053	348	2532	0.38533
3.7	0.00113	740	3272	0.49794
3.5	0.00131	858	4130	0.62852
3.3	0.00120	790	4920	0.74874
3.1	0.00124	818	5738	0.87323
2.9	0.00132	865	6603	1.0049
2.7	0.00165	1086	7689	1.1701
2.5	0.00190	1249	8938	1.3602
2.3	0.00250	1646	10584	1.6107
2.1	0.00289	1896	12480	1.8992
1.9	0.00364	2393	14873	2.2634
1.7	0.00407	2673	17546	2.6702
1.5	0.00512	3364	20910	3.1822
1.3	0.00817	5371	26281	3.9995
1.1	0.01913	12571	38852	5.9126
0.9	0.05996	39398	78250	11.908
0.7	0.17231	113223	191473	29.139
0.5	0.30169	198238	389711	59.308
0.3	0.29211	191947	581658	88.519
0.1	0.10774	70793	652451	99.292
-0.1	0.00702	4610	657061	99.994
-0.3	0.00001	7	657068	99.995

Station Information	
Station no.	203450
Station name	Bungawalbin
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	527031
Northing	6788276

Summary Statistics	
Time interval (mins)	15
Start of record	19/09/2002
Highest water level recorded (m)	6.514
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.509
Date recorded	22/12/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203450

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Bungawalbin (203450)
FREQUENCY DISTRIBUTION ANALYSIS

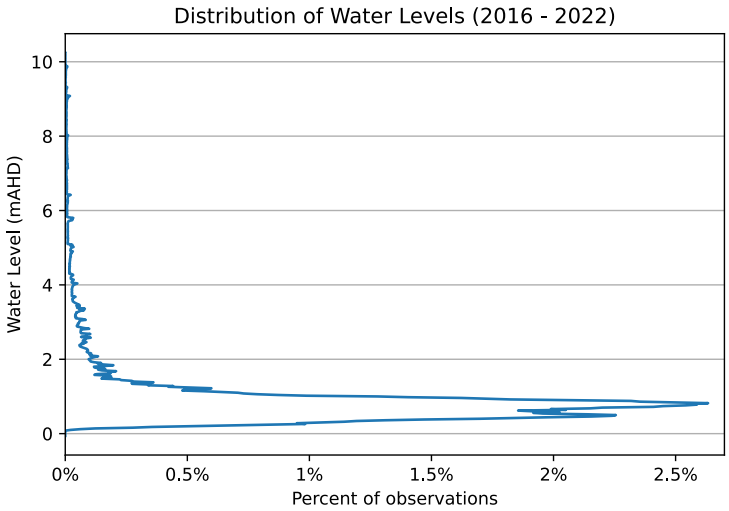
Manly Hydraulics Laboratory

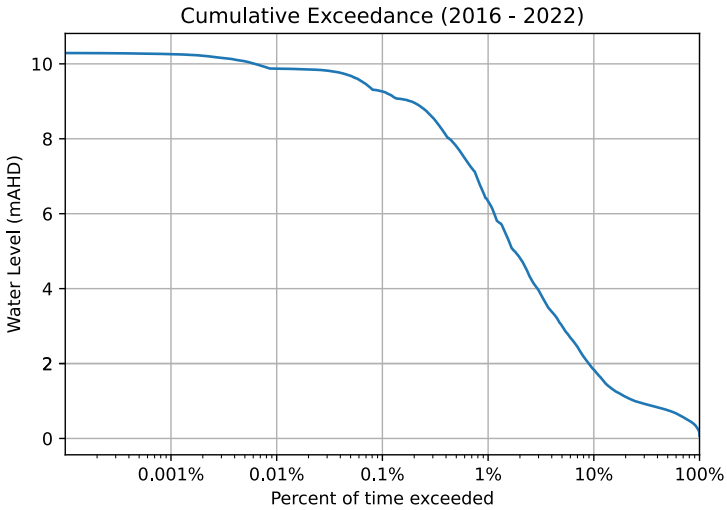
MHL2971
Figure
A33

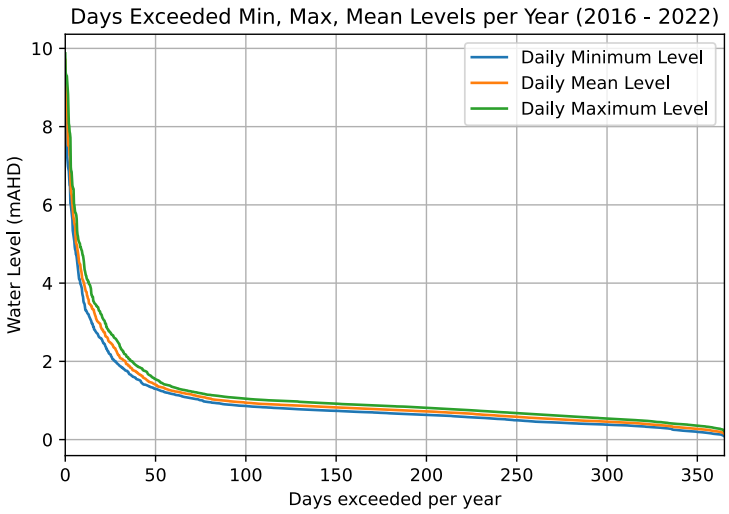
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
10.3	0.00006	10	10	0.006216
10.0	0.00042	67	77	0.047864
9.7	0.00027	43	120	0.074593
9.4	0.00056	90	210	0.13054
9.1	0.00116	186	396	0.24616
8.8	0.00069	111	507	0.31515
8.5	0.00062	99	606	0.37669
8.2	0.00093	149	755	0.46931
7.9	0.00094	152	907	0.5638
7.6	0.00103	165	1072	0.66636
7.3	0.00110	177	1249	0.77638
7.0	0.00083	133	1382	0.85906
6.7	0.00108	173	1555	0.96659
6.4	0.00141	227	1782	1.1077
6.1	0.00110	177	1959	1.2177
5.8	0.00236	379	2338	1.4533
5.5	0.00155	249	2587	1.6081
5.2	0.00288	463	3050	1.8959
4.9	0.00332	534	3584	2.2278
4.6	0.00265	426	4010	2.4926
4.3	0.00440	708	4718	2.9327
4.0	0.00427	687	5405	3.3598
3.7	0.00586	943	6348	3.9459
3.4	0.00774	1245	7593	4.7198
3.1	0.00919	1479	9072	5.6392
2.8	0.01156	1860	10932	6.7954
2.5	0.01131	1820	12752	7.9267
2.2	0.01580	2542	15294	9.5068
1.9	0.02376	3823	19117	11.883
1.6	0.03367	5416	24533	15.25
1.3	0.09145	14712	39245	24.395
1.0	0.32304	51968	91213	56.698
0.7	0.30656	49317	140530	87.354
0.4	0.12624	20309	160839	99.978
0.1	0.00022	35	160874	100

Station Information	
Station no.	2034133
Station name	Bungawalbin Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	516561
Northing	6776508

Summary Statistics	
Time interval (mins)	15
Start of record	17/02/2016
Highest water level recorded (m)	10.258
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.076
Date recorded	22/11/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-2034133

NSW GOVERNMENT

Bungawalbin Creek (2034133)
FREQUENCY DISTRIBUTION ANALYSIS

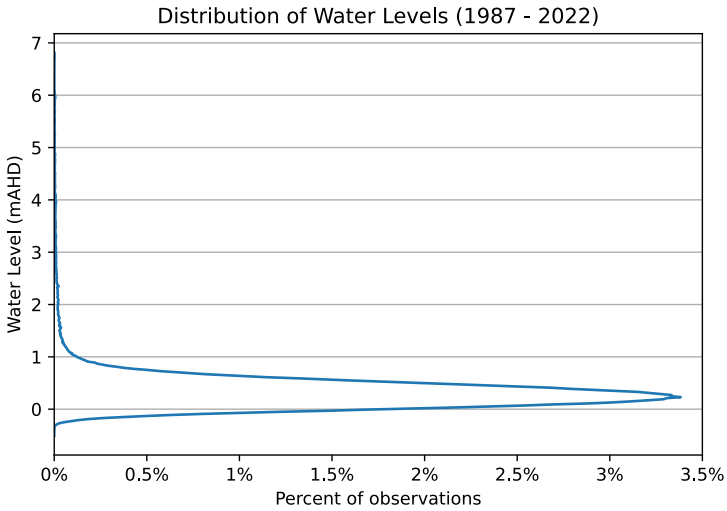
Manly Hydraulics Laboratory

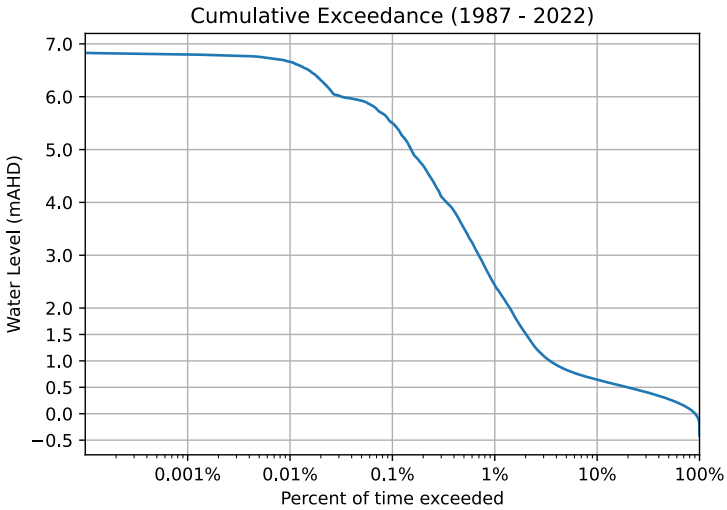
MHL2971
Figure
A34

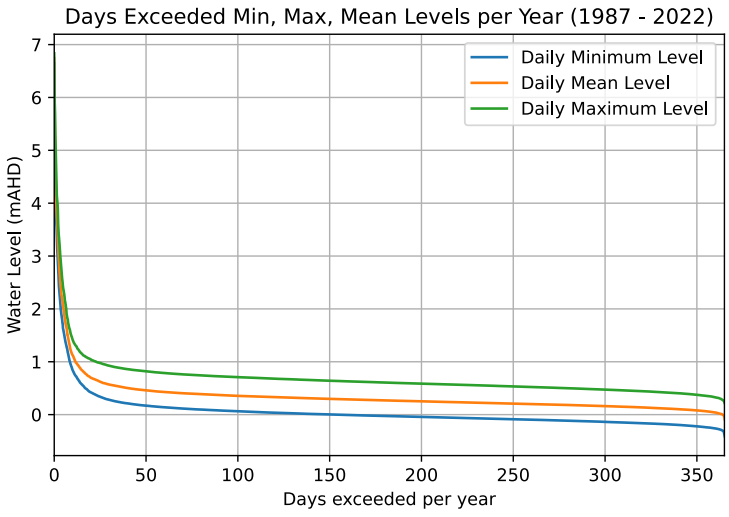
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.8	0.00014	161	161	0.014382
6.5	0.00008	85	246	0.021975
6.2	0.00032	358	604	0.053956
5.9	0.00035	387	991	0.088527
5.6	0.00032	359	1350	0.1206
5.3	0.00031	345	1695	0.15142
5.0	0.00047	525	2220	0.19831
4.7	0.00050	562	2782	0.24852
4.4	0.00055	613	3395	0.30328
4.1	0.00108	1211	4606	0.41146
3.8	0.00093	1039	5645	0.50427
3.5	0.00112	1251	6896	0.61603
3.2	0.00128	1431	8327	0.74386
2.9	0.00148	1655	9982	0.8917
2.6	0.00220	2461	12443	1.1115
2.3	0.00289	3238	15681	1.4008
2.0	0.00328	3676	19357	1.7292
1.7	0.00457	5114	24471	2.186
1.4	0.00790	8838	33309	2.9755
1.1	0.02484	27806	61115	5.4595
0.8	0.14375	160922	222037	19.835
0.5	0.42936	480637	702674	62.771
0.2	0.34583	387133	1089807	97.354
-0.1	0.02645	29605	1119412	99.998
-0.4	0.00001	10	1119422	99.999

Station Information	
Station no.	203403
Station name	Coraki
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	527981
Northing	6793775

Summary Statistics	
Time interval (mins)	15
Start of record	11/12/1987
Highest water level recorded (m)	6.832
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.535
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203403

NSW GOVERNMENT

Coraki (203403)
FREQUENCY DISTRIBUTION ANALYSIS

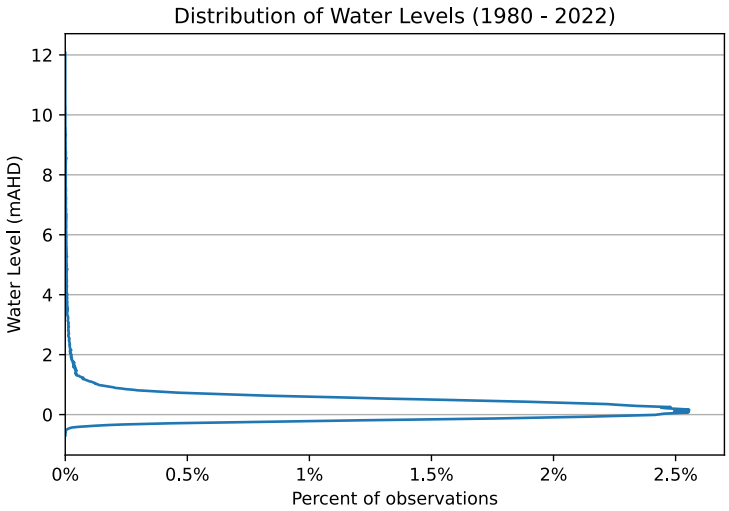
Manly Hydraulics Laboratory

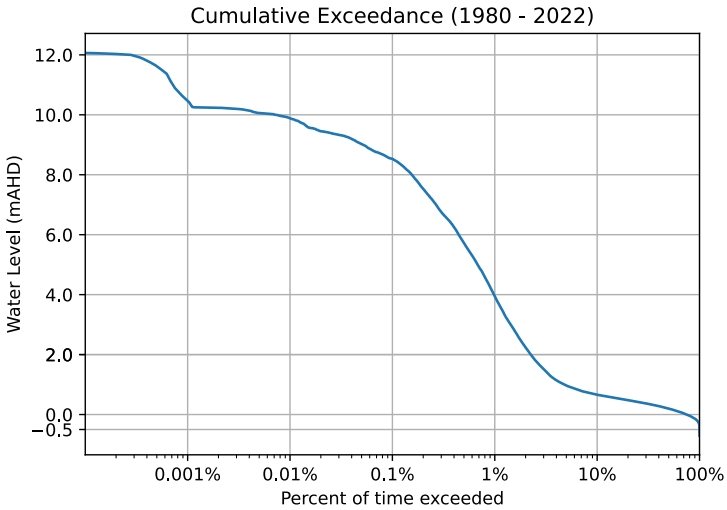
MHL2971
Figure
A35

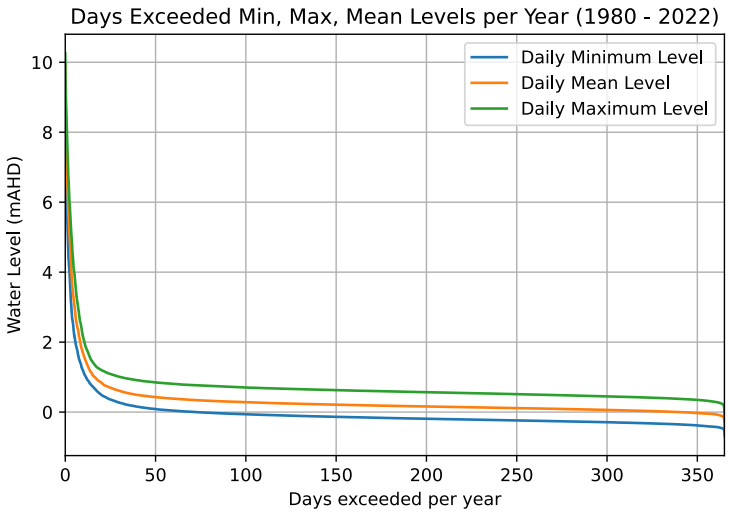
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.1	0.00000	7	7	0.00048653
11.7	0.00000	3	10	0.00069504
11.3	0.00000	1	11	0.00076454
10.9	0.00000	3	14	0.00097306
10.5	0.00003	48	62	0.0043092
10.1	0.00009	135	197	0.013692
9.7	0.00020	284	481	0.033431
9.3	0.00024	347	828	0.057549
8.9	0.00046	665	1493	0.10377
8.5	0.00042	603	2096	0.14568
8.1	0.00037	536	2632	0.18293
7.7	0.00045	641	3273	0.22749
7.3	0.00052	746	4019	0.27934
6.9	0.00072	1043	5062	0.35183
6.5	0.00076	1091	6153	0.42766
6.1	0.00078	1116	7269	0.50522
5.7	0.00096	1381	8650	0.60121
5.3	0.00106	1525	10175	0.7072
4.9	0.00118	1697	11872	0.82515
4.5	0.00121	1737	13609	0.94588
4.1	0.00145	2083	15692	1.0907
3.7	0.00167	2409	18101	1.2581
3.3	0.00240	3447	21548	1.4977
2.9	0.00275	3959	25507	1.7728
2.5	0.00369	5313	30820	2.1421
2.1	0.00517	7444	38264	2.6595
1.7	0.00805	11577	49841	3.4641
1.3	0.02128	30612	80453	5.5918
0.9	0.12744	183358	263811	18.336
0.5	0.44097	634458	898269	62.433
0.1	0.36286	522066	1420335	98.719
-0.3	0.01281	18432	1438767	100

Station Information	
Station no.	203427
Station name	East Gundurimba
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	526034
Northing	6809079

Summary Statistics	
Time interval (mins)	15
Start of record	05/03/1980
Highest water level recorded (m)	12.077
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.731
Date recorded	30/05/1988







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203427

NSW GOVERNMENT

East Gundurimba (203427)
FREQUENCY DISTRIBUTION ANALYSIS

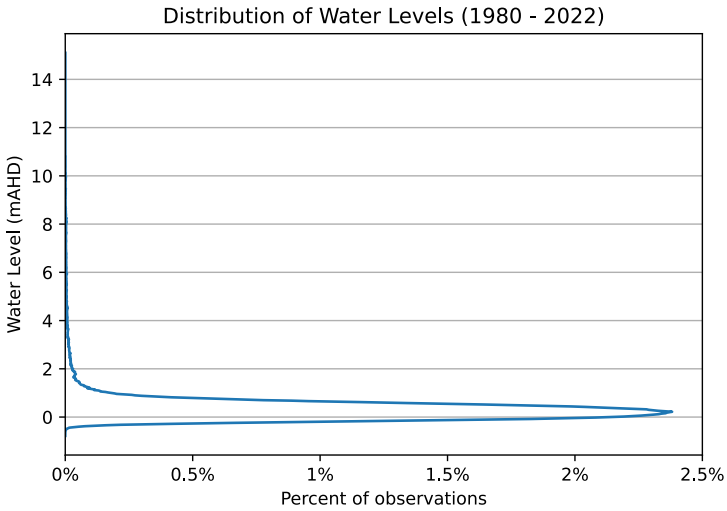
Manly Hydraulics Laboratory

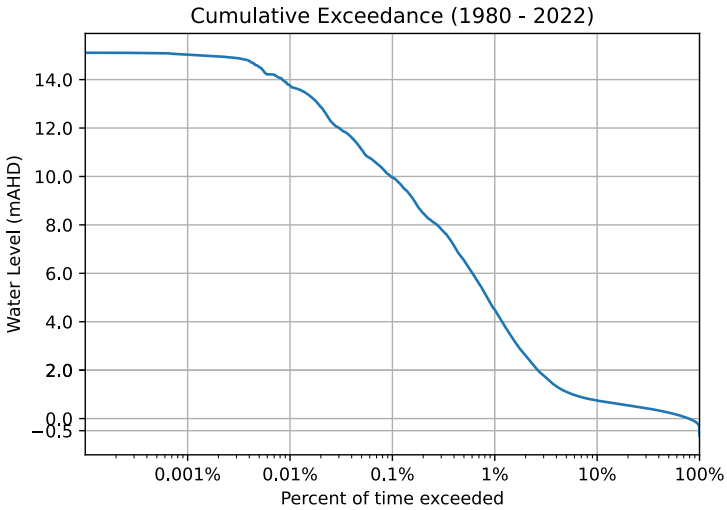
MHL2971
Figure
A36

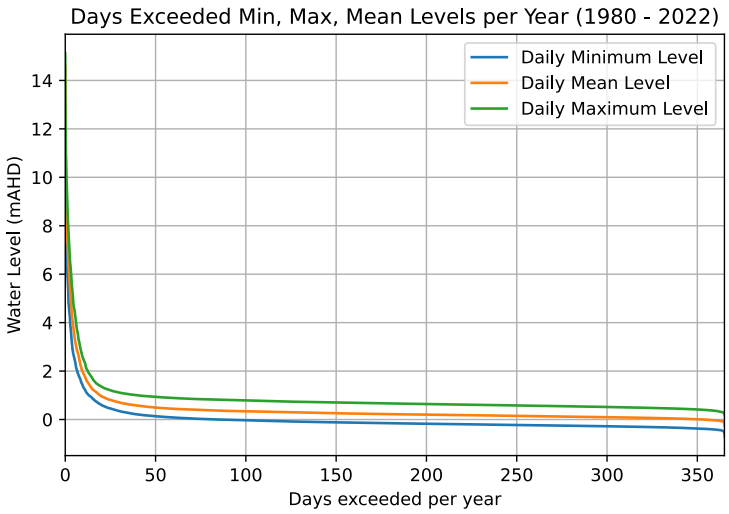
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
15.3	0.00004	54	54	0.0039589
14.8	0.00002	23	77	0.0056451
14.3	0.00004	54	131	0.0096039
13.8	0.00006	88	219	0.016055
13.3	0.00005	65	284	0.020821
12.8	0.00004	55	339	0.024853
12.3	0.00011	145	484	0.035483
11.8	0.00011	148	632	0.046333
11.3	0.00012	160	792	0.058063
10.8	0.00023	313	1105	0.08101
10.3	0.00031	422	1527	0.11195
9.8	0.00033	453	1980	0.14516
9.3	0.00029	399	2379	0.17441
8.8	0.00046	621	3000	0.21994
8.3	0.00084	1145	4145	0.30388
7.8	0.00076	1032	5177	0.37954
7.3	0.00068	926	6103	0.44743
6.8	0.00096	1307	7410	0.54325
6.3	0.00108	1474	8884	0.65131
5.8	0.00118	1608	10492	0.76919
5.3	0.00128	1742	12234	0.8969
4.8	0.00169	2305	14539	1.0659
4.3	0.00194	2640	17179	1.2594
3.8	0.00238	3245	20424	1.4973
3.3	0.00327	4466	24890	1.8247
2.8	0.00456	6215	31105	2.2804
2.3	0.00678	9244	40349	2.9581
1.8	0.01138	15528	55877	4.0965
1.3	0.04424	60349	116226	8.5208
0.8	0.35391	482736	598962	43.911
0.3	0.51695	705134	1304096	95.606
-0.2	0.04394	59929	1364025	100

Station Information	
Station no.	203443
Station name	Tuncester
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	523441
Northing	6814619

Summary Statistics	
Time interval (mins)	15
Start of record	21/03/1980
Highest water level recorded (m)	15.115
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.805
Date recorded	26/07/1986







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203443

NSW GOVERNMENT

Tuncester (203443)
FREQUENCY DISTRIBUTION ANALYSIS

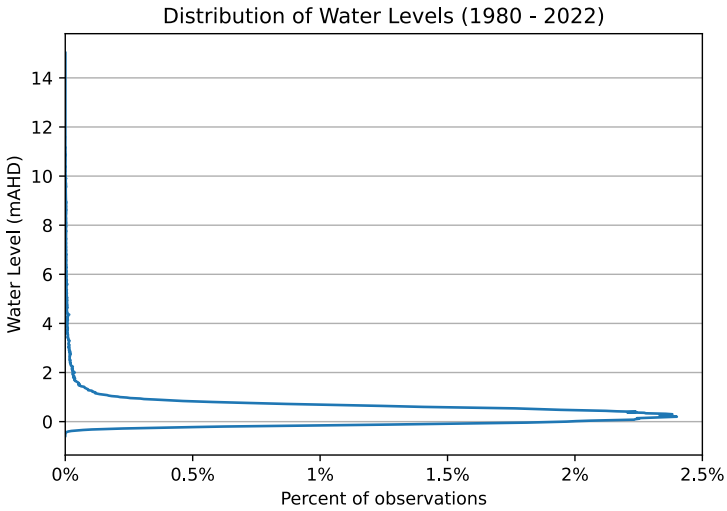
Manly Hydraulics Laboratory

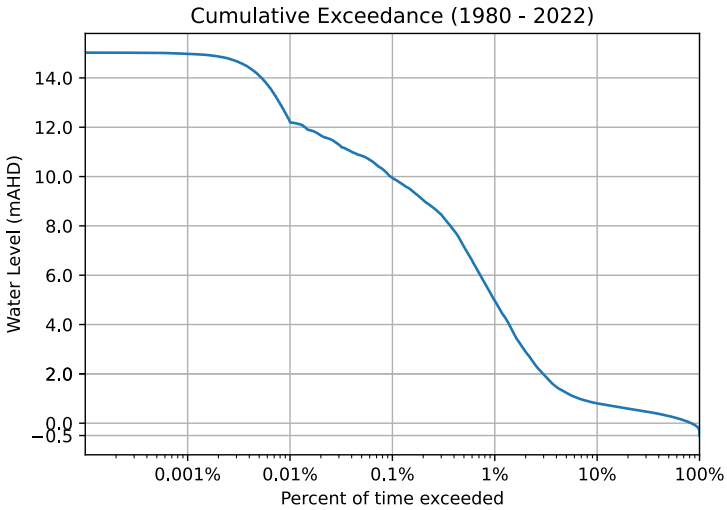
MHL2971
Figure
A37

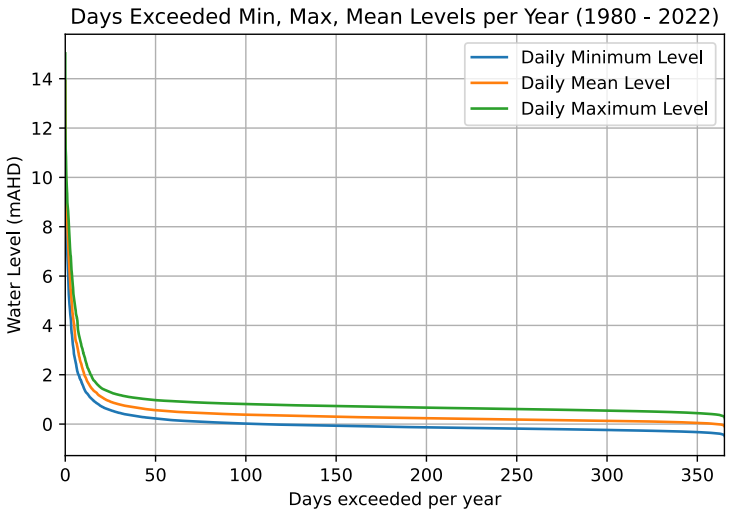
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
15.0	0.00003	40	40	0.002927
14.5	0.00002	21	61	0.0044637
14.0	0.00001	19	80	0.005854
13.5	0.00001	18	98	0.0071711
13.0	0.00001	17	115	0.0084151
12.5	0.00005	66	181	0.013245
12.0	0.00011	152	333	0.024367
11.5	0.00015	203	536	0.039222
11.0	0.00029	393	929	0.067979
10.5	0.00027	369	1298	0.094981
10.0	0.00052	714	2012	0.14723
9.5	0.00057	784	2796	0.2046
9.0	0.00087	1187	3983	0.29145
8.5	0.00076	1038	5021	0.36741
8.0	0.00081	1105	6126	0.44827
7.5	0.00077	1046	7172	0.52481
7.0	0.00092	1259	8431	0.61694
6.5	0.00105	1429	9860	0.7215
6.0	0.00126	1728	11588	0.84795
5.5	0.00140	1915	13503	0.98808
5.0	0.00175	2389	15892	1.1629
4.5	0.00220	3011	18903	1.3832
4.0	0.00214	2924	21827	1.5972
3.5	0.00325	4442	26269	1.9222
3.0	0.00430	5877	32146	2.3523
2.5	0.00610	8339	40485	2.9625
2.0	0.00957	13073	53558	3.9191
1.5	0.02690	36767	90325	6.6095
1.0	0.20909	285737	376062	27.518
0.5	0.55533	758915	1134977	83.052
0.0	0.16947	231603	1366580	99.999
-0.5	0.00000	1	1366581	99.999

Station Information	
Station no.	203402
Station name	Woodlawn College
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	529528
Northing	6815751

Summary Statistics	
Time interval (mins)	15
Start of record	13/03/1980
Highest water level recorded (m)	15.025
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.596
Date recorded	14/01/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-203402

NSW GOVERNMENT

Woodlawn College (203402)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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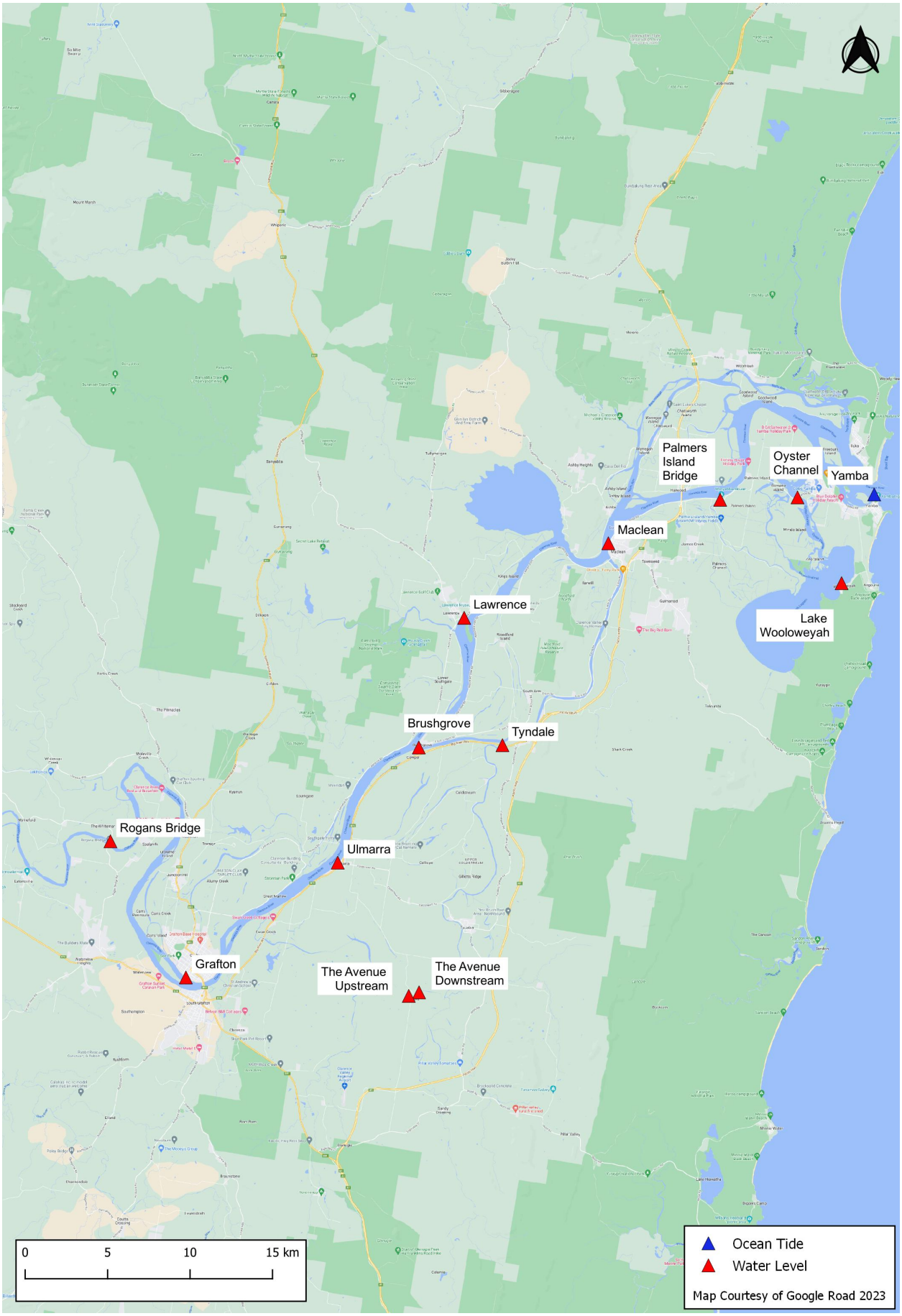


NSW GOVERNMENT

STATION LOCATIONS
CLARENCE RIVER REGION

Manly Hydraulics Laboratory

MHL2971

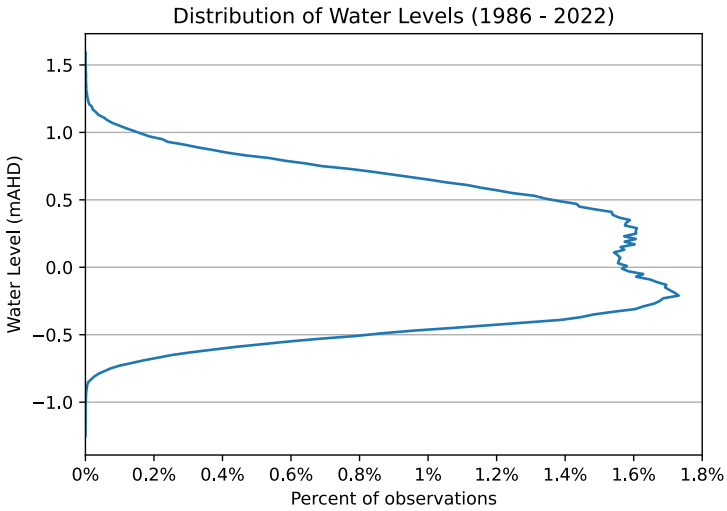
Figure

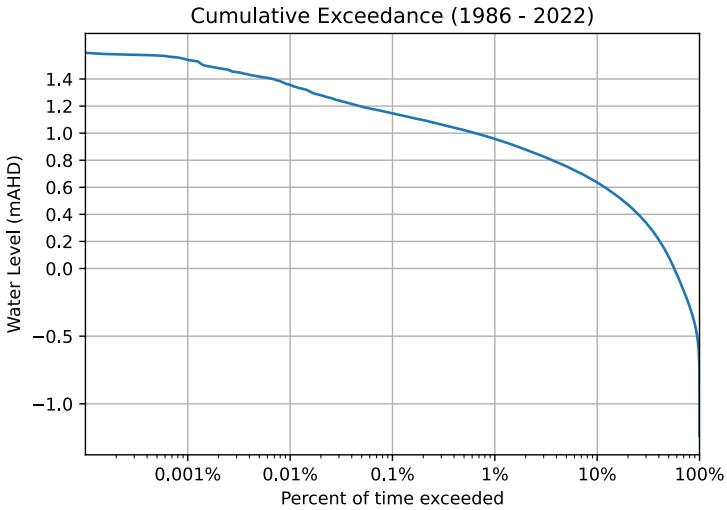
A39

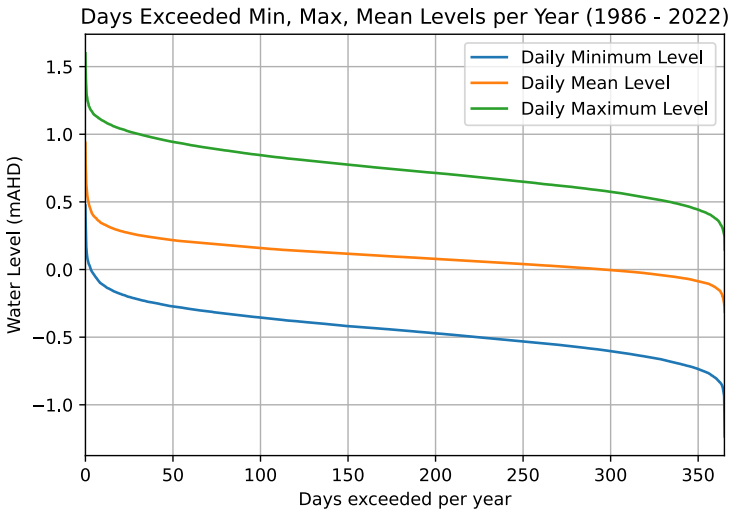
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00001	18	18	0.0014881
1.5	0.00005	64	82	0.0067793
1.4	0.00010	117	199	0.016452
1.3	0.00032	386	585	0.048364
1.2	0.00140	1693	2278	0.18833
1.1	0.00460	5569	7847	0.64874
1.0	0.01029	12444	20291	1.6775
0.9	0.01991	24078	44369	3.6682
0.8	0.03364	40692	85061	7.0323
0.7	0.04861	58794	143855	11.893
0.6	0.06139	74255	218110	18.032
0.5	0.07196	87043	305153	25.228
0.4	0.07812	94494	399647	33.04
0.3	0.07985	96583	496230	41.025
0.2	0.07885	95380	591610	48.911
0.1	0.07778	94081	685691	56.689
0.0	0.08000	96767	782458	64.689
-0.1	0.08438	102061	884519	73.127
-0.2	0.08438	102069	986588	81.565
-0.3	0.07595	91864	1078452	89.16
-0.4	0.05603	67774	1146226	94.763
-0.5	0.03236	39138	1185364	97.999
-0.6	0.01449	17521	1202885	99.447
-0.7	0.00460	5561	1208446	99.907
-0.8	0.00078	940	1209386	99.985
-0.9	0.00010	122	1209508	99.995
-1.0	0.00003	31	1209539	99.998
-1.1	0.00002	25	1209564	100
-1.2	0.00000	4	1209568	100

Station Information	
Station no.	204454
Station name	Yamba
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	535118
Northing	6744433

Summary Statistics	
Time interval (mins)	15
Start of record	02/07/1986
Highest water level recorded (m)	1.597
Date recorded	01/03/2022
Lowest water level recorded (m)	-1.275
Date recorded	06/10/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204454

NSW GOVERNMENT

Yamba (204454)
FREQUENCY DISTRIBUTION ANALYSIS

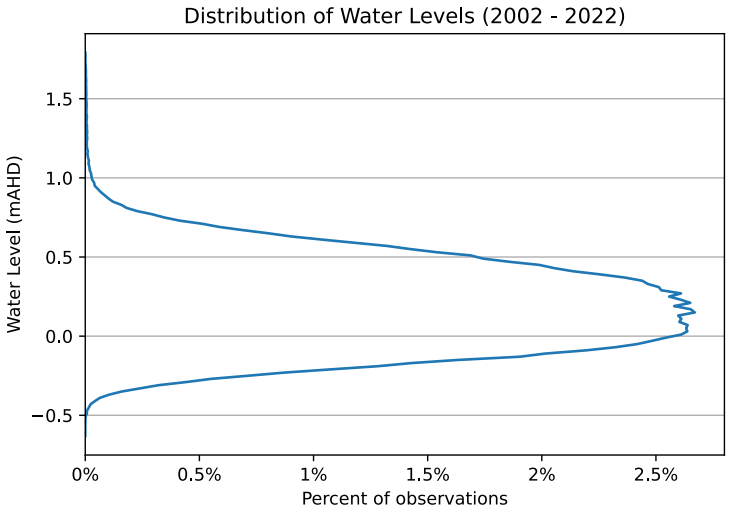
Manly Hydraulics Laboratory

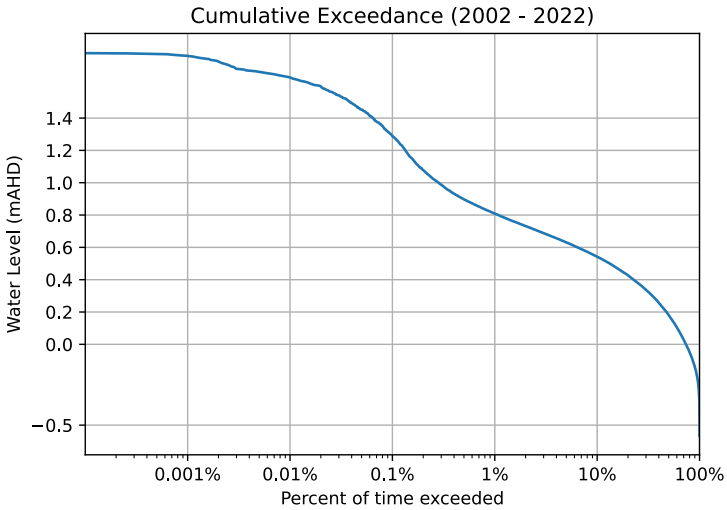
MHL2971
Figure
A40

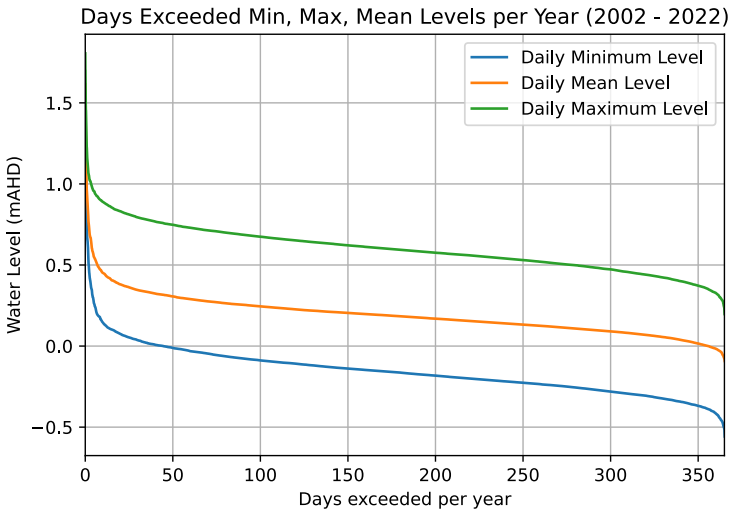
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00003	21	21	0.0033025
1.7	0.00016	101	122	0.019186
1.6	0.00019	123	245	0.038529
1.5	0.00026	167	412	0.064792
1.4	0.00032	203	615	0.096717
1.3	0.00037	238	853	0.13415
1.2	0.00049	309	1162	0.18274
1.1	0.00101	643	1805	0.28386
1.0	0.00209	1328	3133	0.4927
0.9	0.00592	3763	6896	1.0845
0.8	0.01623	10319	17215	2.7073
0.7	0.03743	23802	41017	6.4505
0.6	0.06845	43528	84545	13.296
0.5	0.09553	60745	145290	22.849
0.4	0.11865	75447	220737	34.714
0.3	0.12866	81810	302547	47.579
0.2	0.13143	83576	386123	60.723
0.1	0.13142	83565	469688	73.864
0.0	0.12161	77331	547019	86.026
-0.1	0.08708	55374	602393	94.734
-0.2	0.04067	25861	628254	98.801
-0.3	0.01067	6784	635038	99.868
-0.4	0.00127	809	635847	99.995
-0.5	0.00005	29	635876	100

Station Information	
Station no.	204451
Station name	Oyster Channel
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	530468
Northing	6744254

Summary Statistics	
Time interval (mins)	15
Start of record	20/11/2002
Highest water level recorded (m)	1.803
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.650
Date recorded	22/12/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204451

NSW GOVERNMENT

Oyster Channel (204451)
FREQUENCY DISTRIBUTION ANALYSIS

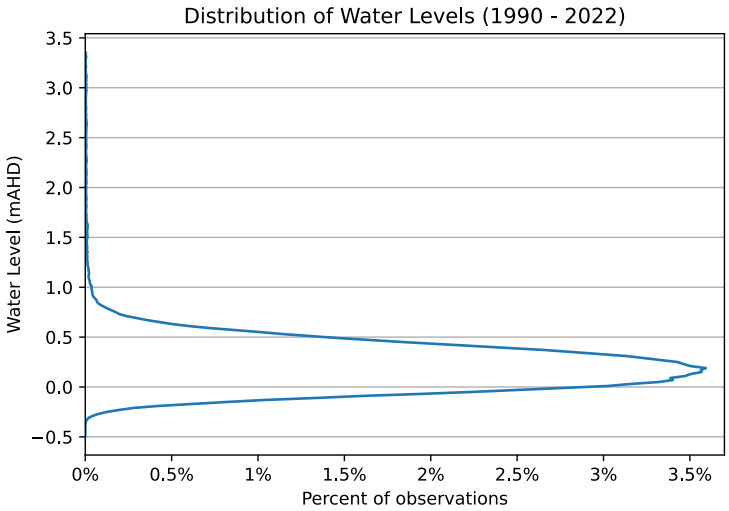
Manly Hydraulics Laboratory

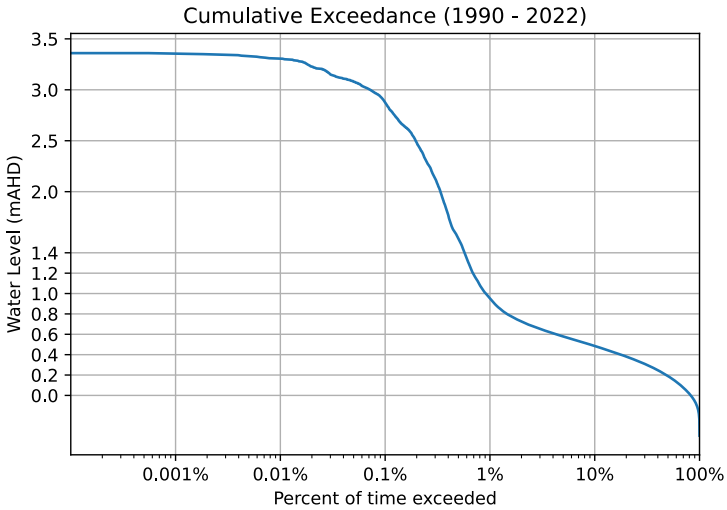
MHL2971
Figure
A41

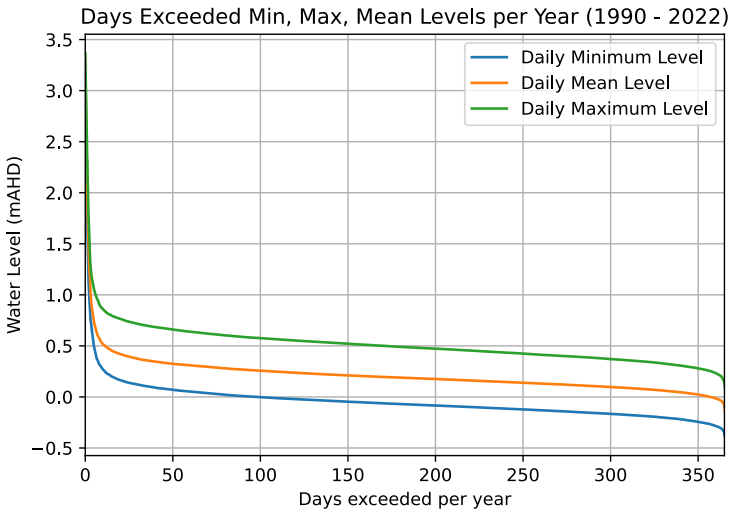
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.4	0.00025	282	282	0.025227
3.2	0.00047	523	805	0.072015
3.0	0.00040	443	1248	0.11165
2.8	0.00058	648	1896	0.16961
2.6	0.00051	570	2466	0.22061
2.4	0.00057	636	3102	0.2775
2.2	0.00059	663	3765	0.33681
2.0	0.00054	602	4367	0.39067
1.8	0.00073	819	5186	0.46394
1.6	0.00107	1201	6387	0.57138
1.4	0.00116	1293	7680	0.68705
1.2	0.00226	2522	10202	0.91266
1.0	0.00539	6024	16226	1.4516
0.8	0.02837	31713	47939	4.2886
0.6	0.13495	150850	198789	17.784
0.4	0.30433	340193	538982	48.217
0.2	0.34255	382910	921892	82.472
0.0	0.16581	185350	1107242	99.053
-0.2	0.00947	10586	1117828	100

Station Information	
Station no.	204410
Station name	Maclean
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	518999
Northing	6741473

Summary Statistics	
Time interval (mins)	15
Start of record	12/01/1990
Highest water level recorded (m)	3.363
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.510
Date recorded	23/12/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204410

NSW GOVERNMENT

Maclean (204410)
FREQUENCY DISTRIBUTION ANALYSIS

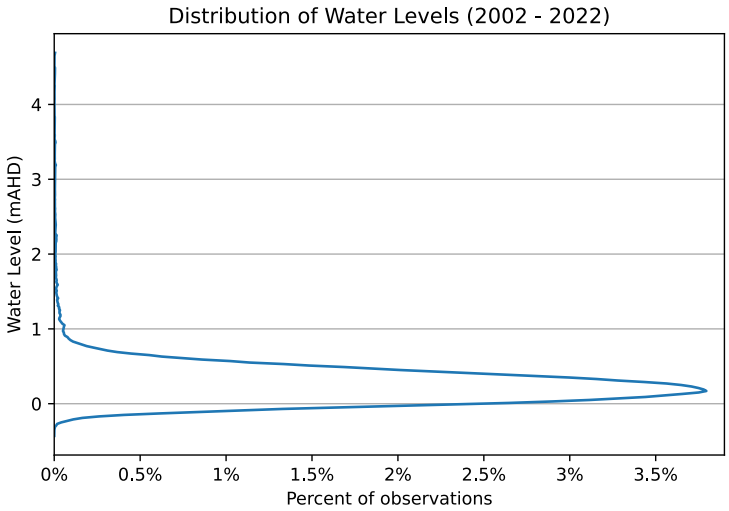
Manly Hydraulics Laboratory

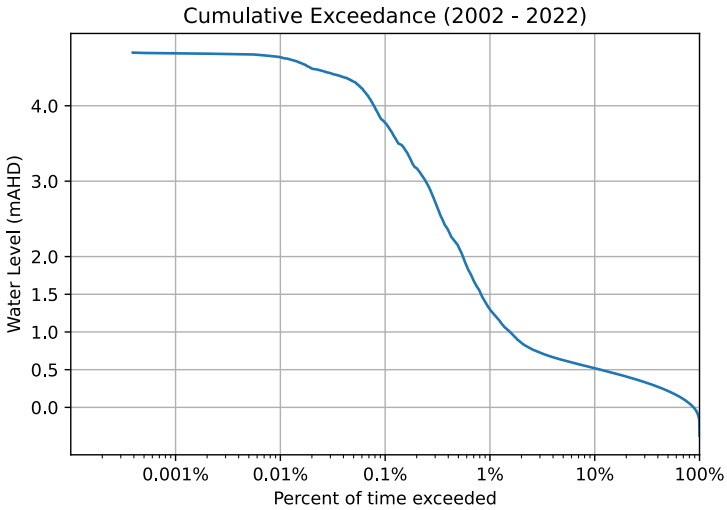
MHL2971
Figure
A42

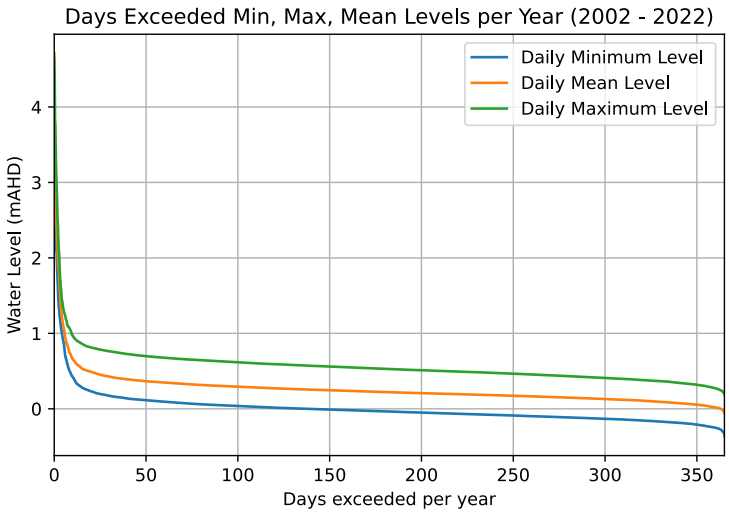
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.8	0.00013	96	96	0.013449
4.6	0.00023	166	262	0.036706
4.4	0.00026	186	448	0.062764
4.2	0.00016	111	559	0.078315
4.0	0.00018	128	687	0.096247
3.8	0.00025	176	863	0.1209
3.6	0.00037	262	1125	0.15761
3.4	0.00031	221	1346	0.18857
3.2	0.00056	400	1746	0.24461
3.0	0.00041	291	2037	0.28538
2.8	0.00041	290	2327	0.32601
2.6	0.00054	382	2709	0.37952
2.4	0.00085	605	3314	0.46428
2.2	0.00089	634	3948	0.55311
2.0	0.00082	588	4536	0.63548
1.8	0.00115	818	5354	0.75008
1.6	0.00151	1076	6430	0.90083
1.4	0.00244	1739	8169	1.1445
1.2	0.00413	2947	11116	1.5573
1.0	0.00736	5256	16372	2.2937
0.8	0.03570	25483	41855	5.8638
0.6	0.15221	108648	150503	21.085
0.4	0.32255	230235	380738	53.34
0.2	0.34519	246392	627130	87.859
0.0	0.11806	84267	711397	99.665
-0.2	0.00335	2391	713788	100

Station Information	
Station no.	204453
Station name	Lawrence
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	510259
Northing	6736948

Summary Statistics	
Time interval (mins)	15
Start of record	11/11/2002
Highest water level recorded (m)	4.708
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.446
Date recorded	30/10/2008







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204453

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Lawrence (204453)
FREQUENCY DISTRIBUTION ANALYSIS

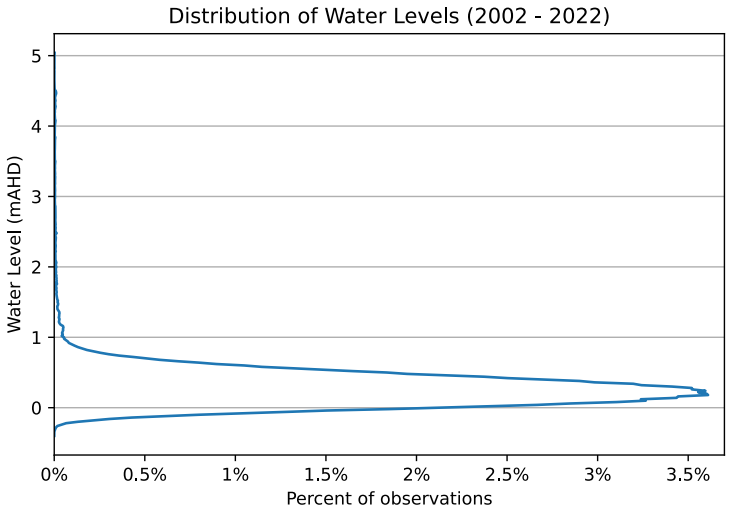
Manly Hydraulics Laboratory

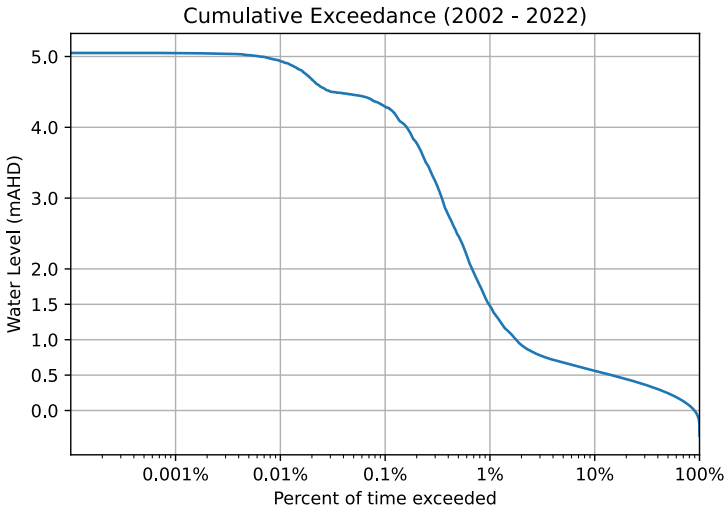
MHL2971
Figure
A43

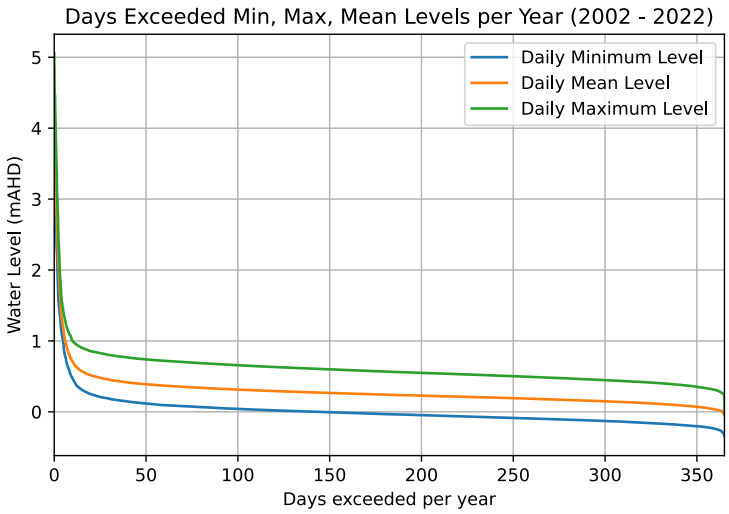
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.1	0.00012	80	80	0.012086
4.9	0.00007	47	127	0.019187
4.7	0.00012	78	205	0.030971
4.5	0.00067	441	646	0.097597
4.3	0.00038	253	899	0.13582
4.1	0.00040	267	1166	0.17616
3.9	0.00037	244	1410	0.21302
3.7	0.00032	210	1620	0.24475
3.5	0.00042	279	1899	0.2869
3.3	0.00041	273	2172	0.32814
3.1	0.00037	247	2419	0.36546
2.9	0.00054	360	2779	0.41985
2.7	0.00065	433	3212	0.48526
2.5	0.00077	512	3724	0.56262
2.3	0.00068	451	4175	0.63075
2.1	0.00093	616	4791	0.72382
1.9	0.00114	754	5545	0.83773
1.7	0.00139	922	6467	0.97703
1.5	0.00218	1444	7911	1.1952
1.3	0.00346	2288	10199	1.5409
1.1	0.00555	3671	13870	2.0955
0.9	0.02246	14868	28738	4.3417
0.7	0.10120	66984	95722	14.462
0.5	0.25870	171236	266958	40.332
0.3	0.34932	231220	498178	75.264
0.1	0.22103	146299	644477	97.367
-0.1	0.02624	17367	661844	99.99
-0.3	0.00010	63	661907	100

Station Information	
Station no.	204465
Station name	Tyndale
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	512580
Northing	6729227

Summary Statistics	
Time interval (mins)	15
Start of record	10/11/2002
Highest water level recorded (m)	5.052
Date recorded	01/03/2022
Lowest water level recorded (m)	-0.420
Date recorded	16/09/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204465

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Tyndale (204465)
FREQUENCY DISTRIBUTION ANALYSIS

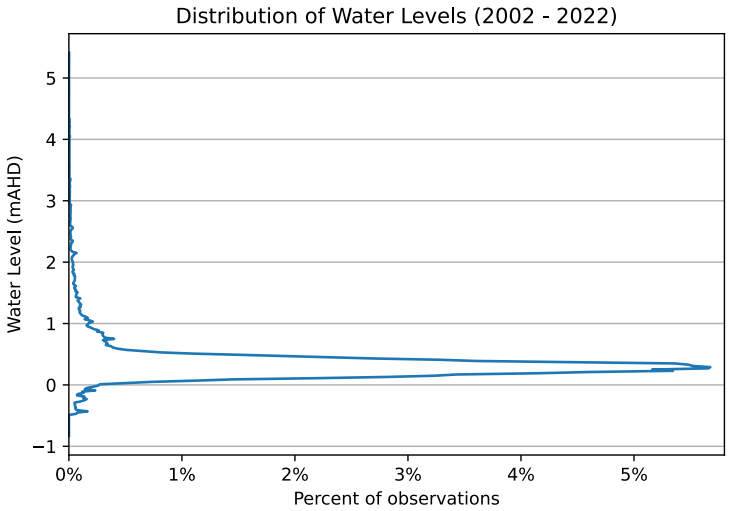
Manly Hydraulics Laboratory

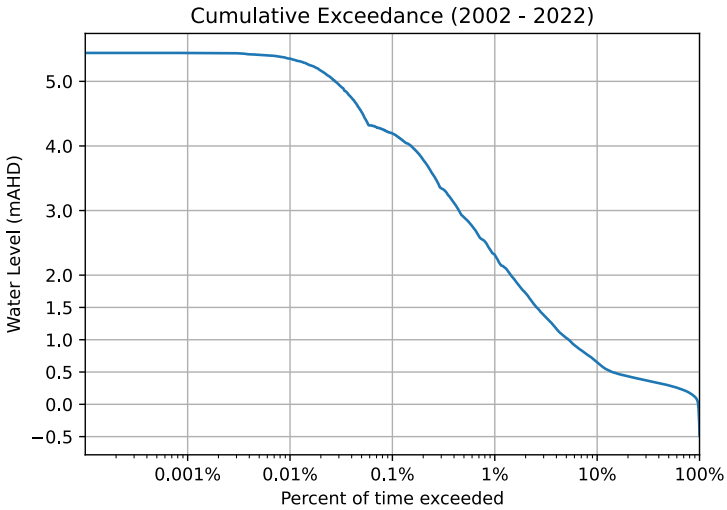
MHL2971
Figure
A44

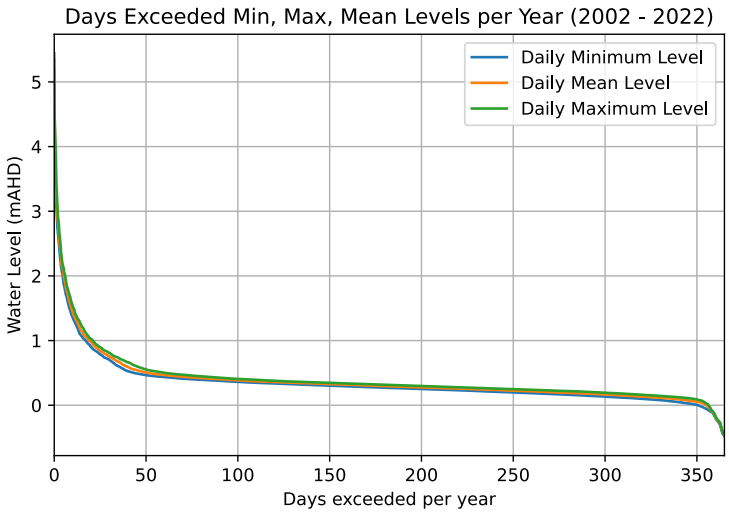
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.5	0.00013	86	86	0.013266
5.3	0.00010	63	149	0.022985
5.1	0.00010	62	211	0.032549
4.9	0.00010	64	275	0.042422
4.7	0.00009	57	332	0.051214
4.5	0.00016	106	438	0.067566
4.3	0.00055	356	794	0.12248
4.1	0.00053	344	1138	0.17555
3.9	0.00044	282	1420	0.21905
3.7	0.00043	281	1701	0.2624
3.5	0.00066	430	2131	0.32873
3.3	0.00080	520	2651	0.40894
3.1	0.00090	586	3237	0.49934
2.9	0.00143	926	4163	0.64219
2.7	0.00179	1158	5321	0.82082
2.5	0.00192	1242	6563	1.0124
2.3	0.00279	1808	8371	1.2913
2.1	0.00316	2050	10421	1.6075
1.9	0.00448	2905	13326	2.0557
1.7	0.00517	3350	16676	2.5724
1.5	0.00804	5212	21888	3.3764
1.3	0.01023	6633	28521	4.3997
1.1	0.01749	11338	39859	6.1487
0.9	0.03008	19502	59361	9.157
0.7	0.04847	31423	90784	14.004
0.5	0.34157	221426	312210	48.162
0.3	0.43951	284912	597122	92.112
0.1	0.06032	39103	636225	98.144
-0.1	0.01178	7637	643862	99.322
-0.3	0.00678	4393	648255	100

Station Information	
Station no.	204475
Station name	The Avenue Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	507150
Northing	6714123

Summary Statistics	
Time interval (mins)	15
Start of record	14/11/2002
Highest water level recorded (m)	5.435
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.850
Date recorded	17/02/2003







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204475

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The Avenue Upstream (204475)
FREQUENCY DISTRIBUTION ANALYSIS

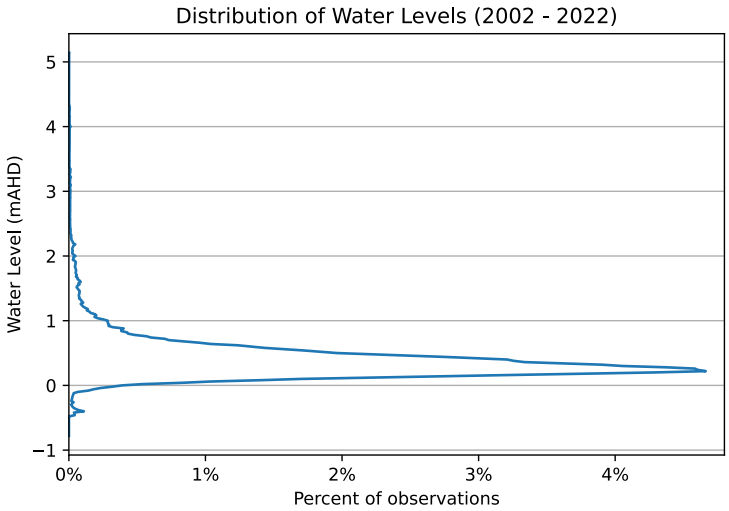
Manly Hydraulics Laboratory

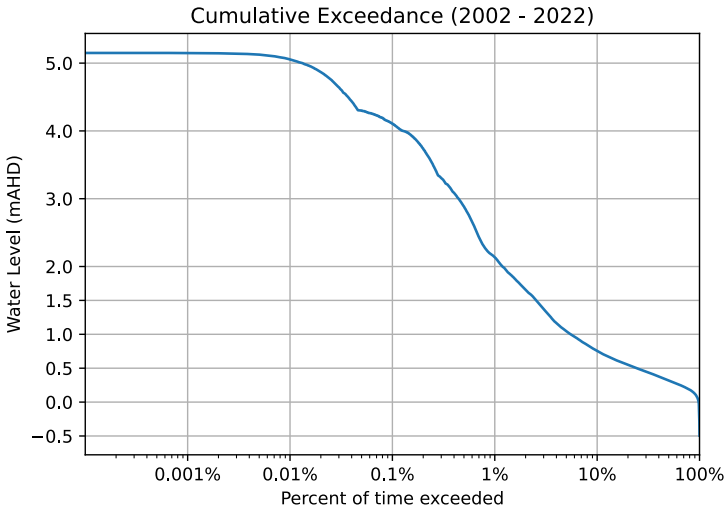
MHL2971
Figure
A45

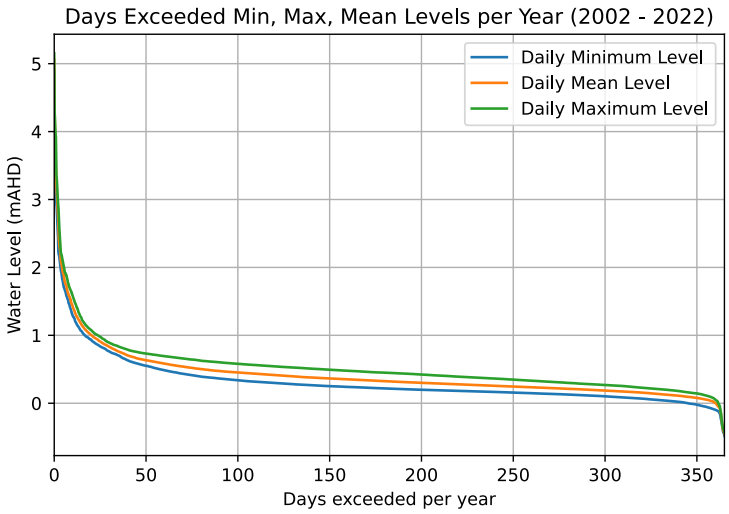
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.3	0.00007	48	48	0.00724
5.1	0.00011	75	123	0.018553
4.9	0.00009	60	183	0.027603
4.7	0.00010	63	246	0.037105
4.5	0.00013	89	335	0.05053
4.3	0.00052	343	678	0.10227
4.1	0.00060	399	1077	0.16245
3.9	0.00046	304	1381	0.2083
3.7	0.00041	272	1653	0.24933
3.5	0.00053	351	2004	0.30227
3.3	0.00087	579	2583	0.38961
3.1	0.00102	676	3259	0.49157
2.9	0.00093	617	3876	0.58463
2.7	0.00085	563	4439	0.66955
2.5	0.00113	751	5190	0.78283
2.3	0.00267	1773	6963	1.0503
2.1	0.00328	2176	9139	1.3785
1.9	0.00494	3275	12414	1.8725
1.7	0.00671	4446	16860	2.5431
1.5	0.00756	5015	21875	3.2995
1.3	0.01181	7833	29708	4.481
1.1	0.02478	16430	46138	6.9592
0.9	0.04701	31164	77302	11.66
0.7	0.12717	84311	161613	24.377
0.5	0.29747	197214	358827	54.123
0.3	0.38392	254528	613355	92.515
0.1	0.06760	44819	658174	99.275
-0.1	0.00307	2037	660211	99.582
-0.3	0.00418	2768	662979	100

Station Information	
Station no.	204476
Station name	The Avenue Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	507174
Northing	6714140

Summary Statistics	
Time interval (mins)	15
Start of record	14/11/2002
Highest water level recorded (m)	5.146
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.800
Date recorded	19/02/2003







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204476

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The Avenue Downstream (204476)
FREQUENCY DISTRIBUTION ANALYSIS

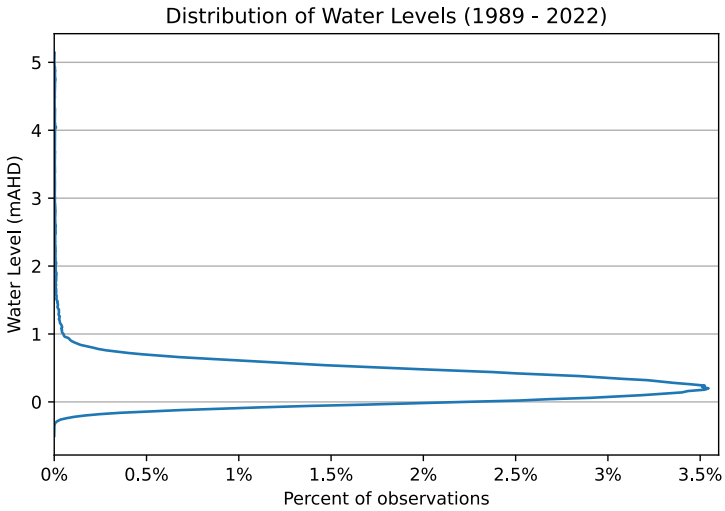
Manly Hydraulics Laboratory

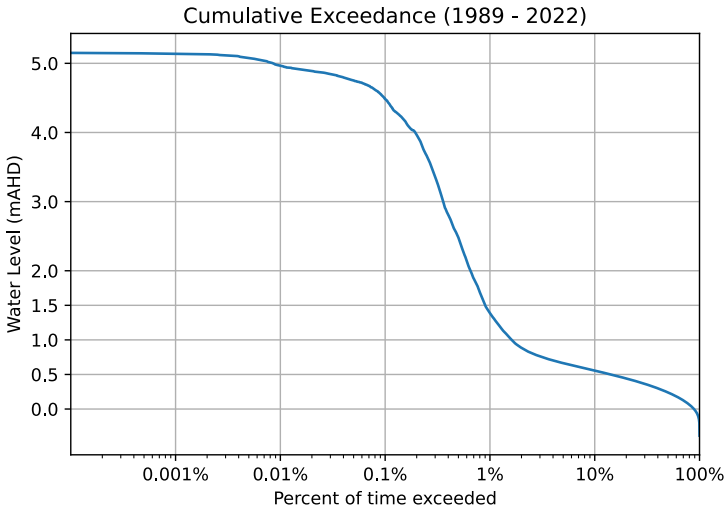
MHL2971
Figure
A46

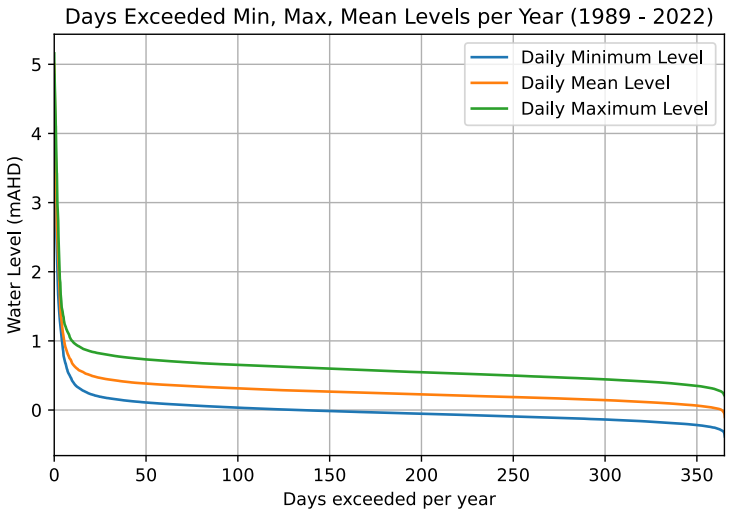
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.2	0.00008	89	89	0.0084918
5.0	0.00031	324	413	0.039406
4.8	0.00044	466	879	0.083868
4.6	0.00027	286	1165	0.11116
4.4	0.00037	388	1553	0.14818
4.2	0.00046	482	2035	0.19417
4.0	0.00033	341	2376	0.2267
3.8	0.00034	358	2734	0.26086
3.6	0.00032	331	3065	0.29244
3.4	0.00033	348	3413	0.32565
3.2	0.00033	342	3755	0.35828
3.0	0.00044	465	4220	0.40264
2.8	0.00054	566	4786	0.45665
2.6	0.00066	695	5481	0.52296
2.4	0.00059	621	6102	0.58221
2.2	0.00072	757	6859	0.65444
2.0	0.00095	993	7852	0.74918
1.8	0.00094	986	8838	0.84326
1.6	0.00144	1513	10351	0.98762
1.4	0.00246	2574	12925	1.2332
1.2	0.00377	3955	16880	1.6106
1.0	0.00956	10021	26901	2.5667
0.8	0.04936	51736	78637	7.503
0.6	0.17587	184320	262957	25.09
0.4	0.31909	334425	597382	56.998
0.2	0.31539	330555	927937	88.537
0.0	0.11053	115843	1043780	99.59
-0.2	0.00410	4293	1048073	100

Station Information	
Station no.	204406
Station name	Brushgrove
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	507508
Northing	6729089

Summary Statistics	
Time interval (mins)	15
Start of record	11/09/1989
Highest water level recorded (m)	5.156
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.520
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204406

NSW GOVERNMENT

Brushgrove (204406)
FREQUENCY DISTRIBUTION ANALYSIS

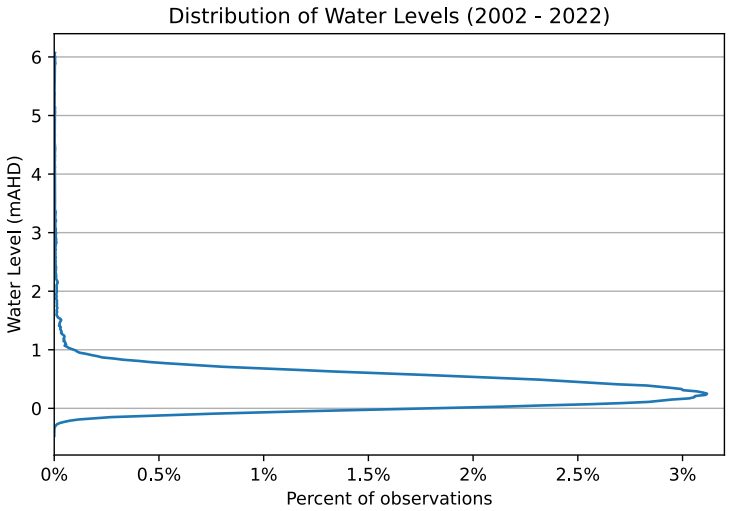
Manly Hydraulics Laboratory

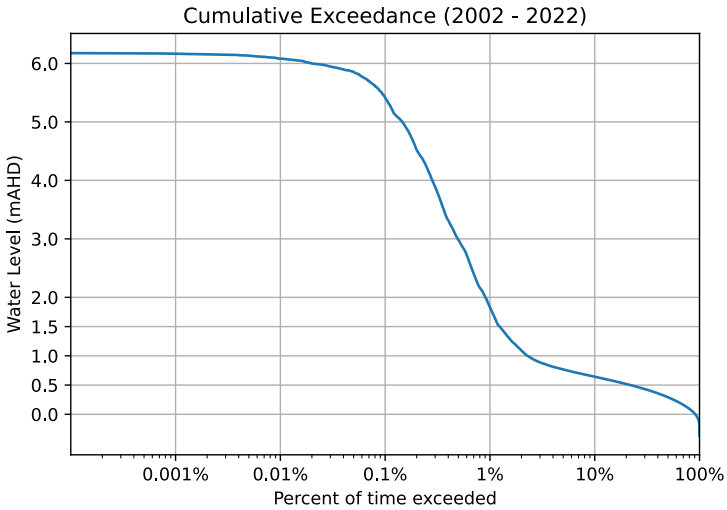
MHL2971
Figure
A47

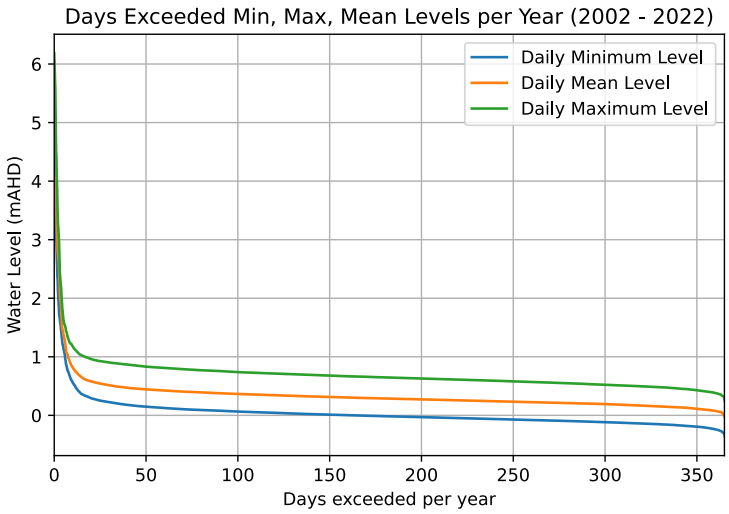
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.2	0.00020	125	125	0.020006
6.0	0.00037	232	357	0.057136
5.8	0.00025	158	515	0.082423
5.6	0.00019	117	632	0.10115
5.4	0.00016	103	735	0.11763
5.2	0.00029	179	914	0.14628
5.0	0.00025	154	1068	0.17093
4.8	0.00021	132	1200	0.19205
4.6	0.00029	182	1382	0.22118
4.4	0.00033	205	1587	0.25399
4.2	0.00028	175	1762	0.282
4.0	0.00033	204	1966	0.31465
3.8	0.00033	204	2170	0.3473
3.6	0.00032	199	2369	0.37915
3.4	0.00054	335	2704	0.43276
3.2	0.00061	380	3084	0.49358
3.0	0.00083	518	3602	0.57648
2.8	0.00060	375	3977	0.6365
2.6	0.00064	401	4378	0.70068
2.4	0.00079	491	4869	0.77926
2.2	0.00126	789	5658	0.90554
2.0	0.00111	692	6350	1.0163
1.8	0.00128	797	7147	1.1438
1.6	0.00233	1456	8603	1.3769
1.4	0.00360	2252	10855	1.7373
1.2	0.00540	3376	14231	2.2776
1.0	0.01956	12224	26455	4.234
0.8	0.08566	53521	79976	12.8
0.6	0.21488	134260	214236	34.288
0.4	0.29912	186895	401131	64.199
0.2	0.27054	169040	570171	91.253
0.0	0.08514	53200	623371	99.768
-0.2	0.00232	1451	624822	100

Station Information	
Station no.	204480
Station name	Ulmarra
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	502596
Northing	6722105

Summary Statistics	
Time interval (mins)	15
Start of record	11/09/2002
Highest water level recorded (m)	6.080
Date recorded	29/01/2013
Lowest water level recorded (m)	-0.490
Date recorded	08/12/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204480

NSW GOVERNMENT

Ulmarra (204480)
FREQUENCY DISTRIBUTION ANALYSIS

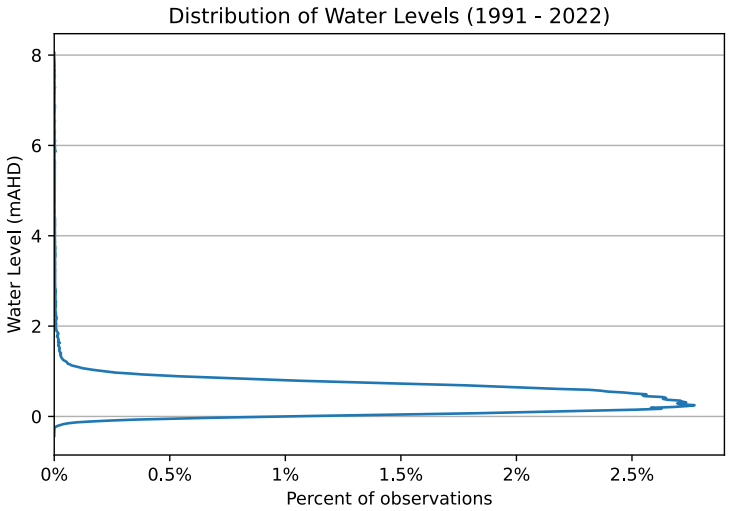
Manly Hydraulics Laboratory

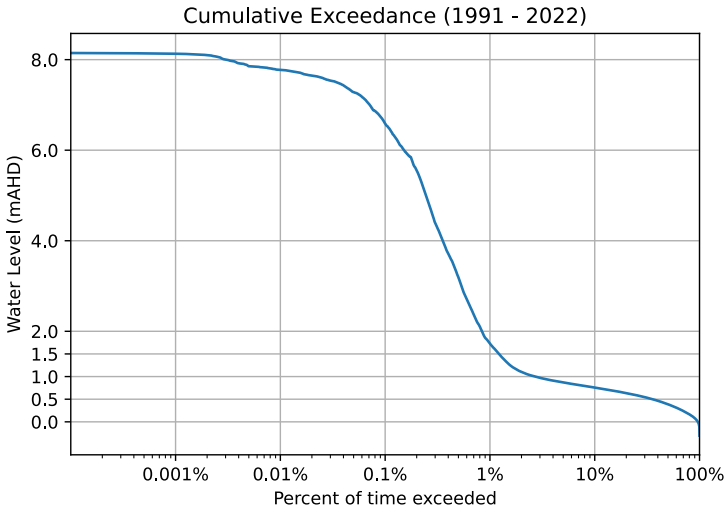
MHL2971
Figure
A48

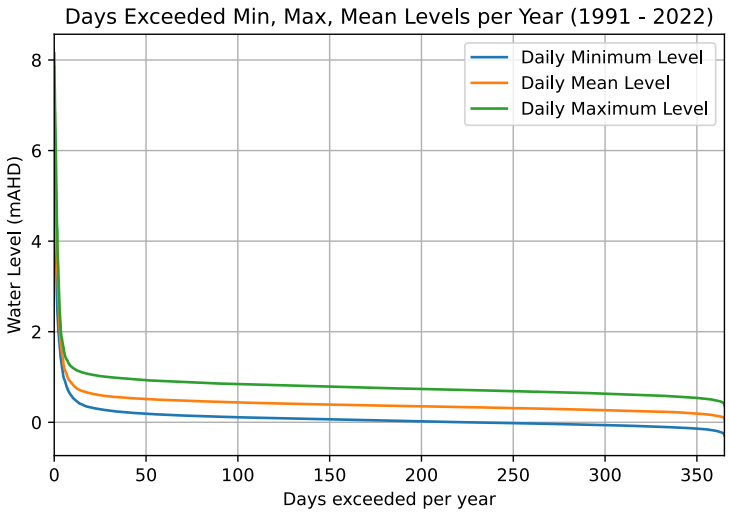
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
8.4	0.00002	22	22	0.0021139
8.1	0.00006	66	88	0.0084555
7.8	0.00026	270	358	0.034399
7.5	0.00024	252	610	0.058612
7.2	0.00017	182	792	0.0761
6.9	0.00023	242	1034	0.099352
6.6	0.00025	258	1292	0.12414
6.3	0.00027	286	1578	0.15162
6.0	0.00034	350	1928	0.18525
5.7	0.00028	294	2222	0.2135
5.4	0.00024	252	2474	0.23772
5.1	0.00025	259	2733	0.2626
4.8	0.00027	281	3014	0.2896
4.5	0.00038	397	3411	0.32775
4.2	0.00042	432	3843	0.36926
3.9	0.00054	559	4402	0.42297
3.6	0.00057	591	4993	0.47975
3.3	0.00055	576	5569	0.5351
3.0	0.00069	715	6284	0.6038
2.7	0.00087	909	7193	0.69114
2.4	0.00112	1165	8358	0.80308
2.1	0.00146	1516	9874	0.94875
1.8	0.00269	2803	12677	1.2181
1.5	0.00451	4691	17368	1.6688
1.2	0.02552	26560	43928	4.2208
0.9	0.19458	202512	246440	23.679
0.6	0.38166	397208	643648	61.845
0.3	0.34562	359701	1003349	96.407
0.0	0.03593	37391	1040740	100
-0.3	0.00000	2	1040742	100

Station Information	
Station no.	204400
Station name	Grafton
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	493388
Northing	6715141

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1991
Highest water level recorded (m)	8.059
Date recorded	29/01/2013
Lowest water level recorded (m)	-0.450
Date recorded	06/02/2000







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204400

NSW GOVERNMENT

Grafton (204400)
FREQUENCY DISTRIBUTION ANALYSIS

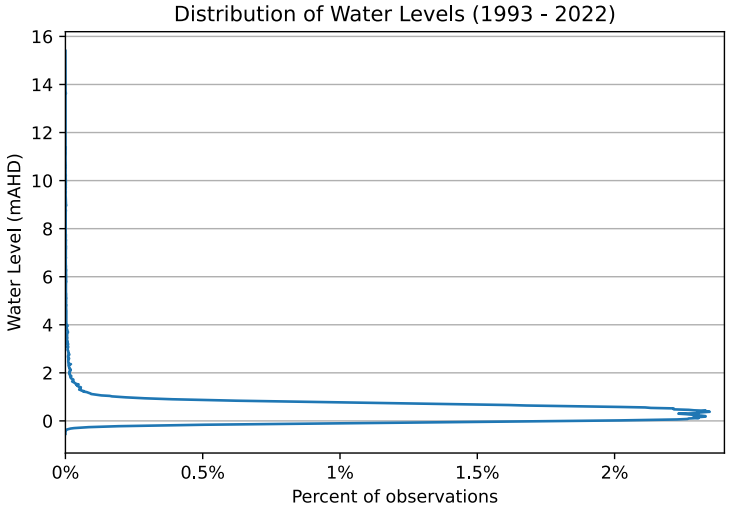
Manly Hydraulics Laboratory

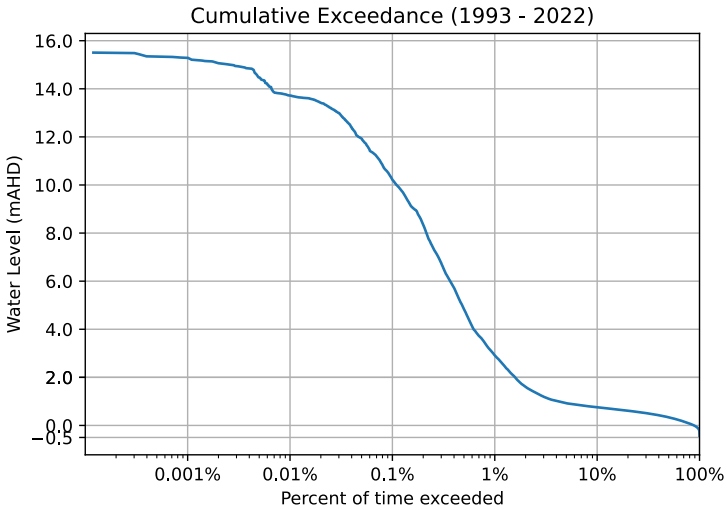
MHL2971
Figure
A49

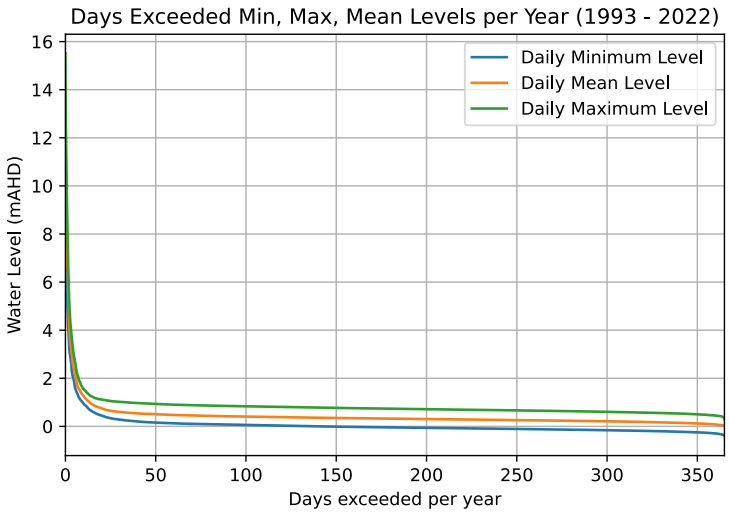
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
15.6	0.00002	19	19	0.0019119
15.1	0.00003	28	47	0.0047294
14.6	0.00002	15	62	0.0062388
14.1	0.00009	93	155	0.015597
13.6	0.00012	116	271	0.02727
13.1	0.00009	92	363	0.036527
12.6	0.00008	76	439	0.044175
12.1	0.00013	132	571	0.057457
11.6	0.00016	155	726	0.073054
11.1	0.00014	141	867	0.087242
10.6	0.00018	182	1049	0.10556
10.1	0.00025	248	1297	0.13051
9.6	0.00023	228	1525	0.15345
9.1	0.00035	347	1872	0.18837
8.6	0.00022	222	2094	0.21071
8.1	0.00025	251	2345	0.23597
7.6	0.00038	373	2718	0.2735
7.1	0.00037	366	3084	0.31033
6.6	0.00045	450	3534	0.35561
6.1	0.00057	568	4102	0.41277
5.6	0.00053	531	4633	0.4662
5.1	0.00066	651	5284	0.53171
4.6	0.00073	721	6005	0.60426
4.1	0.00144	1434	7439	0.74855
3.6	0.00171	1698	9137	0.91942
3.1	0.00251	2498	11635	1.1708
2.6	0.00329	3266	14901	1.4994
2.1	0.00503	4997	19898	2.0022
1.6	0.01409	14006	33904	3.4116
1.1	0.17673	175627	209531	21.084
0.6	0.56225	558756	768287	77.309
0.1	0.22689	225481	993768	99.998
-0.4	0.00002	16	993784	100

Station Information	
Station no.	204414
Station name	Rogans Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	488813
Northing	6723401

Summary Statistics	
Time interval (mins)	15
Start of record	08/07/1993
Highest water level recorded (m)	15.416
Date recorded	29/01/2013
Lowest water level recorded (m)	-0.560
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204414

NSW GOVERNMENT

Rogans Bridge (204414)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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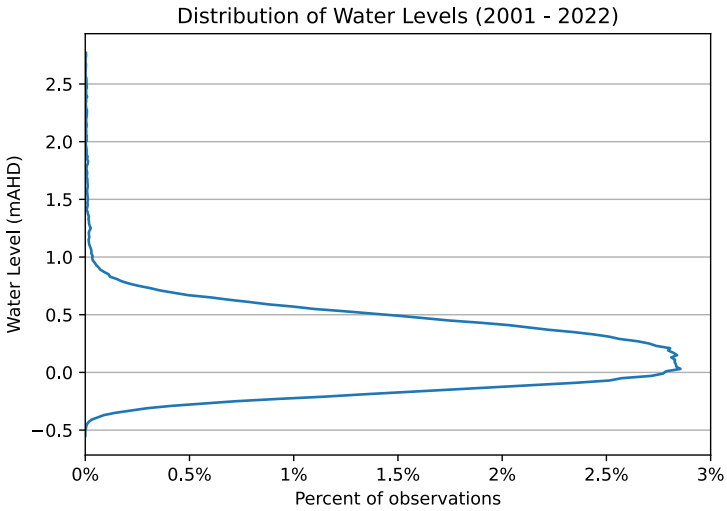
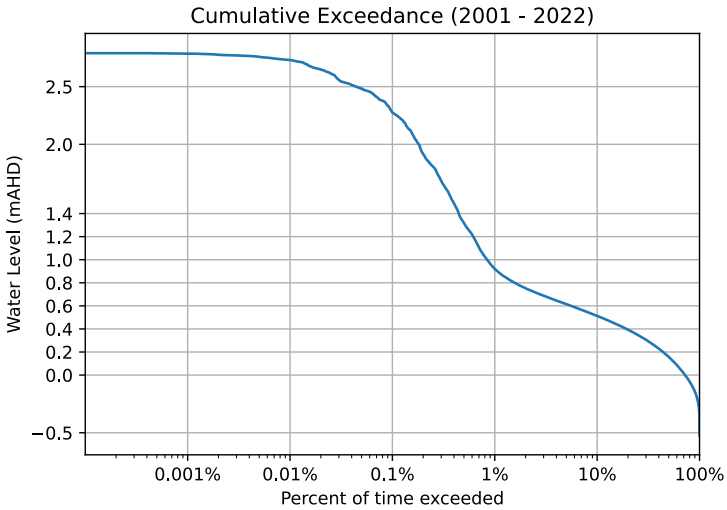
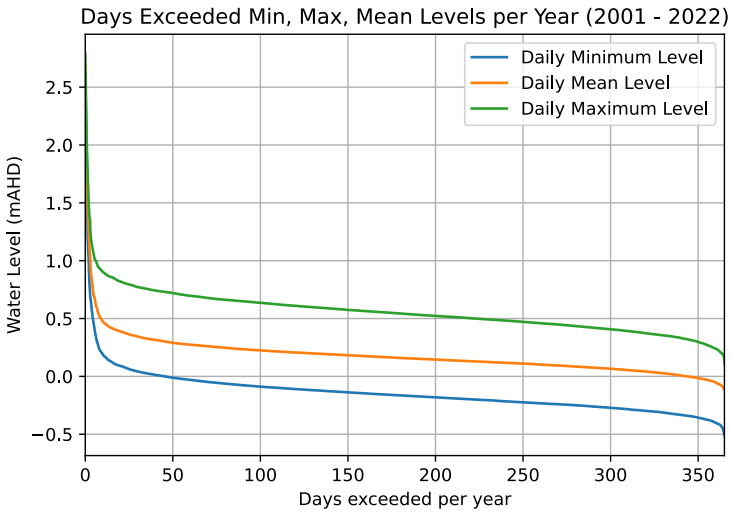
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.8	0.00014	98	98	0.013963
2.7	0.00013	93	191	0.027215
2.6	0.00018	124	315	0.044883
2.5	0.00028	196	511	0.07281
2.4	0.00023	163	674	0.096035
2.3	0.00032	224	898	0.12795
2.2	0.00027	186	1084	0.15445
2.1	0.00026	185	1269	0.18081
2.0	0.00024	168	1437	0.20475
1.9	0.00049	347	1784	0.25419
1.8	0.00039	276	2060	0.29352
1.7	0.00050	348	2408	0.3431
1.6	0.00050	353	2761	0.3934
1.5	0.00052	362	3123	0.44498
1.4	0.00069	485	3608	0.51408
1.3	0.00105	736	4344	0.61895
1.2	0.00088	615	4959	0.70658
1.1	0.00135	947	5906	0.84151
1.0	0.00222	1555	7461	1.0631
0.9	0.00497	3491	10952	1.5605
0.8	0.01203	8440	19392	2.7631
0.7	0.02779	19503	38895	5.5419
0.6	0.05308	37254	76149	10.85
0.5	0.08483	59539	135688	19.333
0.4	0.11397	79988	215676	30.73
0.3	0.13343	93645	309321	44.073
0.2	0.14078	98807	408128	58.152
0.1	0.14132	99182	507310	72.284
0.0	0.13174	92460	599770	85.458
-0.1	0.09265	65026	664796	94.723
-0.2	0.04211	29552	694348	98.934
-0.3	0.00979	6874	701222	99.913
-0.4	0.00085	595	701817	99.998
-0.5	0.00002	14	701831	100

Station Information	
Station no.	204426
Station name	Palmers Island Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	525780
Northing	6744108

Summary Statistics	
Time interval (mins)	15
Start of record	06/12/2001
Highest water level recorded (m)	2.790
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.571
Date recorded	12/07/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204426

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Palmers Island Bridge (204426)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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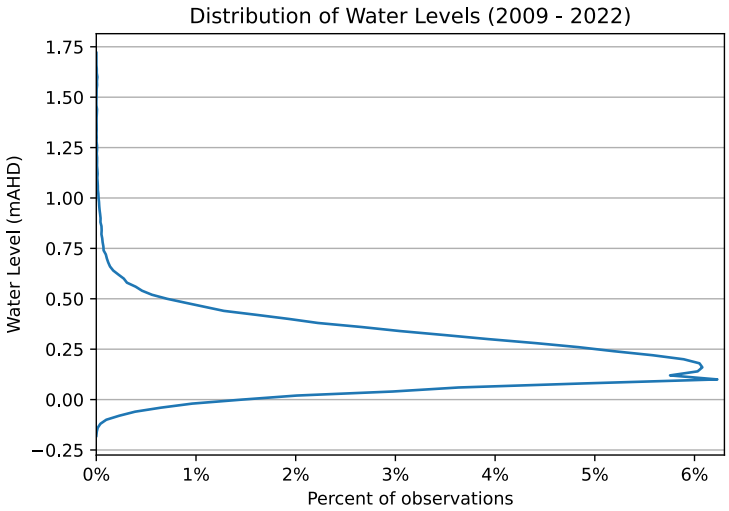
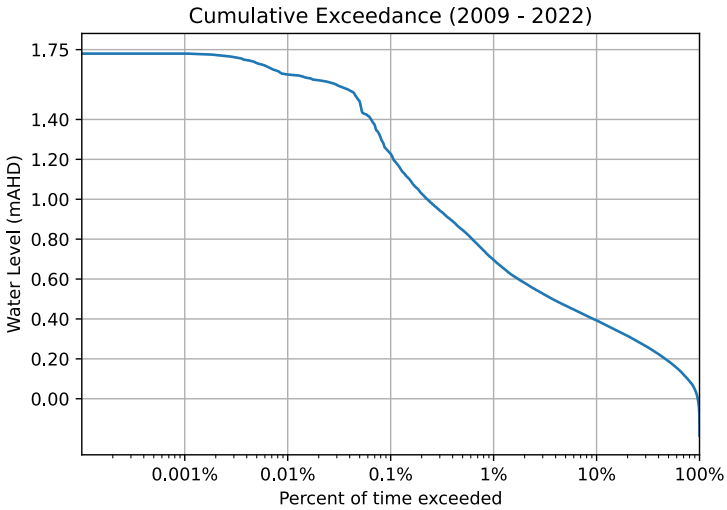
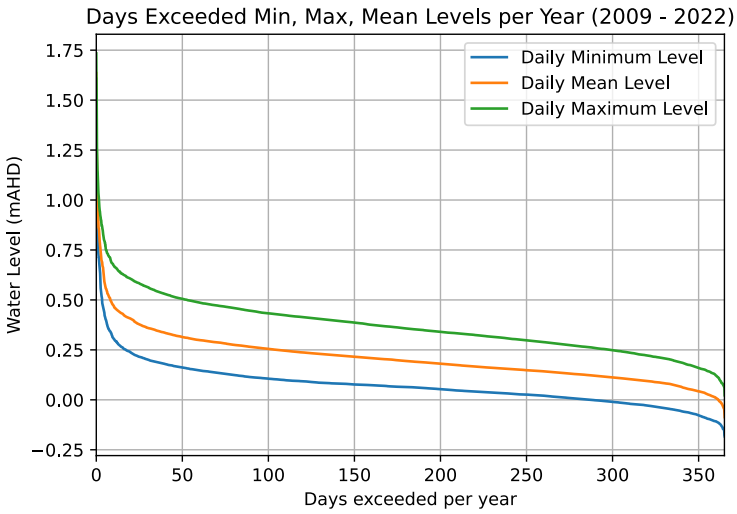
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00014	63	63	0.01381
1.6	0.00031	140	203	0.044498
1.5	0.00017	76	279	0.061158
1.4	0.00016	74	353	0.077379
1.3	0.00025	116	469	0.10281
1.2	0.00046	211	680	0.14906
1.1	0.00075	342	1022	0.22403
1.0	0.00151	688	1710	0.37484
0.9	0.00242	1102	2812	0.6164
0.8	0.00363	1656	4468	0.9794
0.7	0.00756	3448	7916	1.7352
0.6	0.01995	9099	17015	3.7297
0.5	0.05584	25474	42489	9.3137
0.4	0.13353	60916	103405	22.667
0.3	0.23945	109239	212644	46.612
0.2	0.29805	135971	348615	76.417
0.1	0.19724	89980	438595	96.141
0.0	0.03695	16856	455451	99.836
-0.1	0.00160	731	456182	99.996

Station Information	
Station no.	204485
Station name	Lake Wooloweyah
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	533141
Northing	6739053

Summary Statistics	
Time interval (mins)	15
Start of record	26/06/2009
Highest water level recorded (m)	1.732
Date recorded	02/03/2022
Lowest water level recorded (m)	-0.205
Date recorded	22/10/2011







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-204485

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Lake Wooloweyah (204485)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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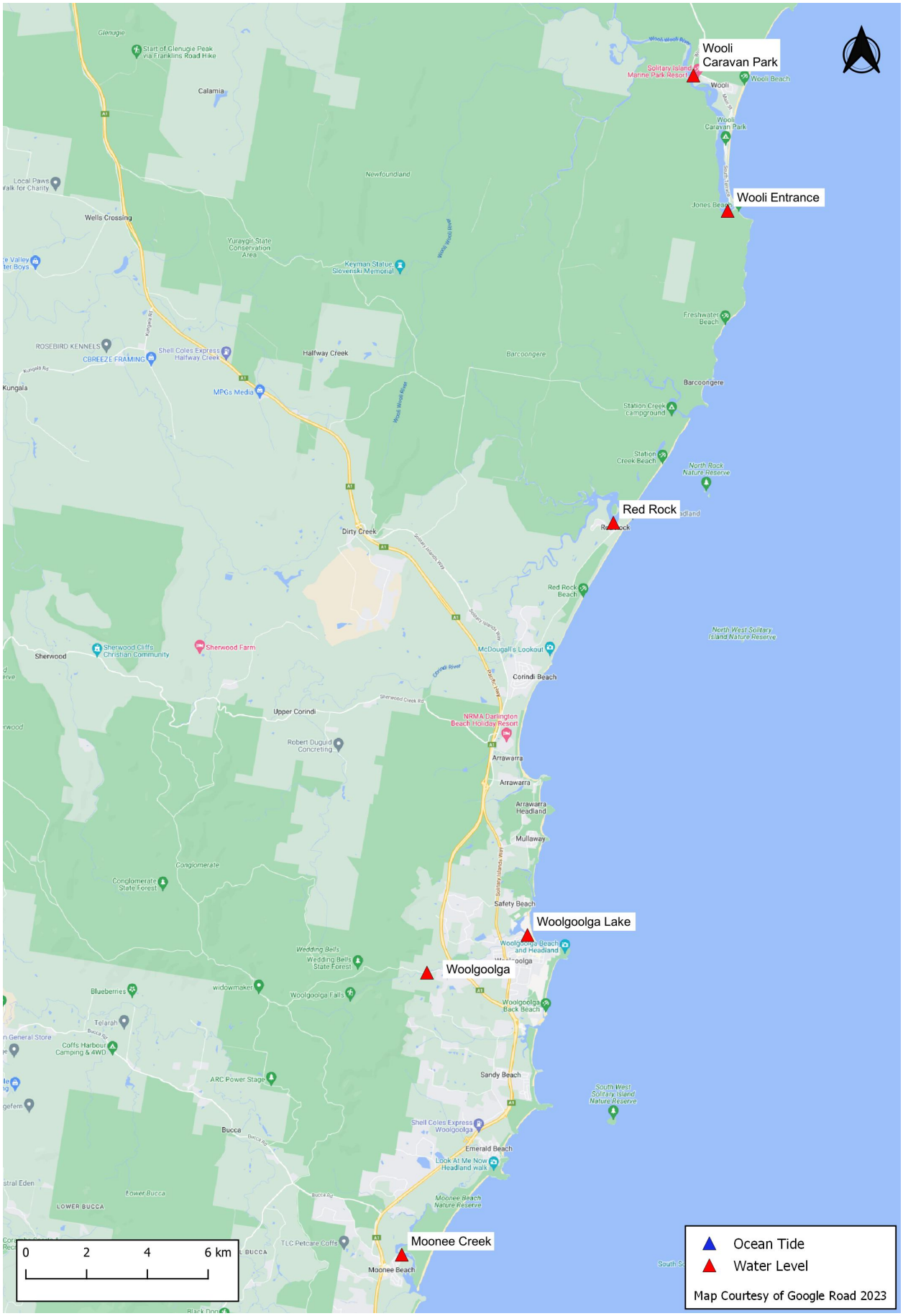

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STATION LOCATIONS
WOOLGOOLGA

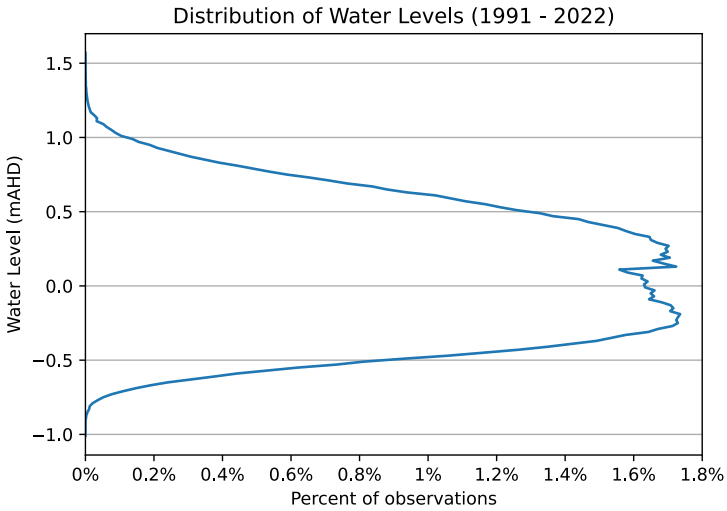
Manly Hydraulics Laboratory

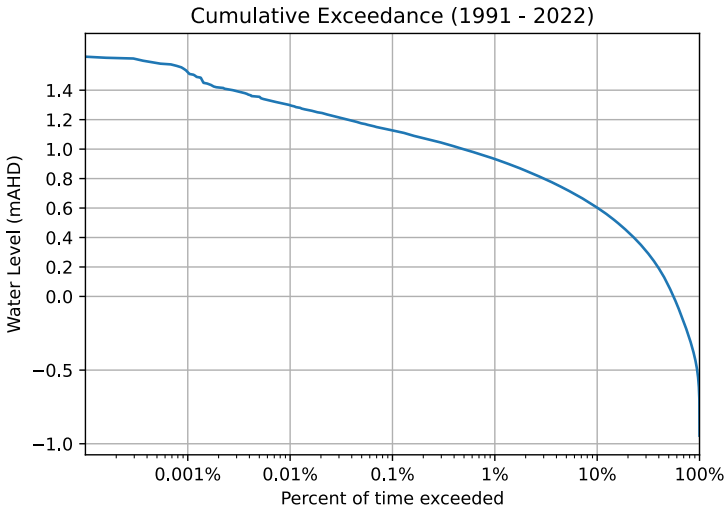
MHL2971
Figure
A53

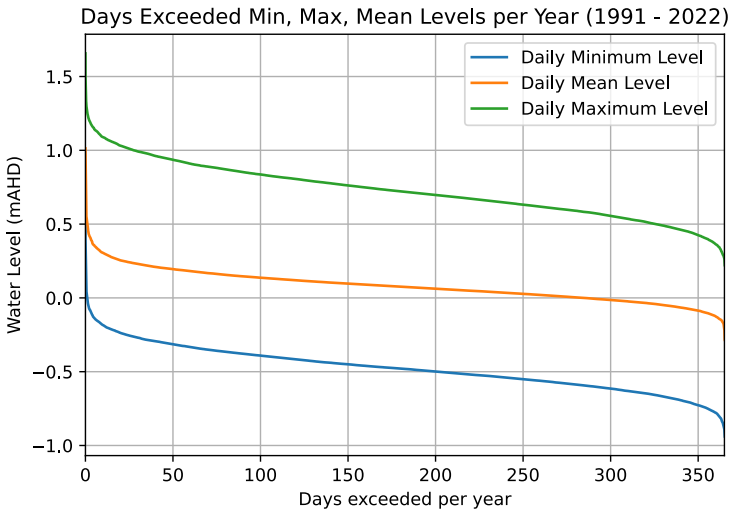
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00000	4	4	0.00038145
1.6	0.00001	9	13	0.0012397
1.5	0.00002	16	29	0.0027655
1.4	0.00007	74	103	0.0098224
1.3	0.00026	272	375	0.035761
1.2	0.00111	1164	1539	0.14676
1.1	0.00343	3596	5135	0.48969
1.0	0.00862	9036	14171	1.3514
0.9	0.01667	17483	31654	3.0186
0.8	0.02835	29733	61387	5.854
0.7	0.04288	44960	106347	10.142
0.6	0.05708	59859	166206	15.85
0.5	0.06970	73091	239297	22.82
0.4	0.07960	83475	322772	30.78
0.3	0.08446	88562	411334	39.226
0.2	0.08411	88202	499536	47.637
0.1	0.08033	84232	583768	55.67
0.0	0.08234	86341	670109	63.903
-0.1	0.08501	89146	759255	72.405
-0.2	0.08624	90431	849686	81.028
-0.3	0.07793	81723	931409	88.822
-0.4	0.06015	63078	994487	94.837
-0.5	0.03370	35337	1029824	98.207
-0.6	0.01400	14677	1044501	99.606
-0.7	0.00351	3678	1048179	99.957
-0.8	0.00042	441	1048620	99.999
-0.9	0.00001	8	1048628	100

Station Information	
Station no.	205462
Station name	Wooli Entrance
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	525680
Northing	6693338

Summary Statistics	
Time interval (mins)	15
Start of record	01/05/1991
Highest water level recorded (m)	1.580
Date recorded	09/03/2001
Lowest water level recorded (m)	-1.030
Date recorded	08/02/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205462

NSW GOVERNMENT

Wooli Entrance (205462)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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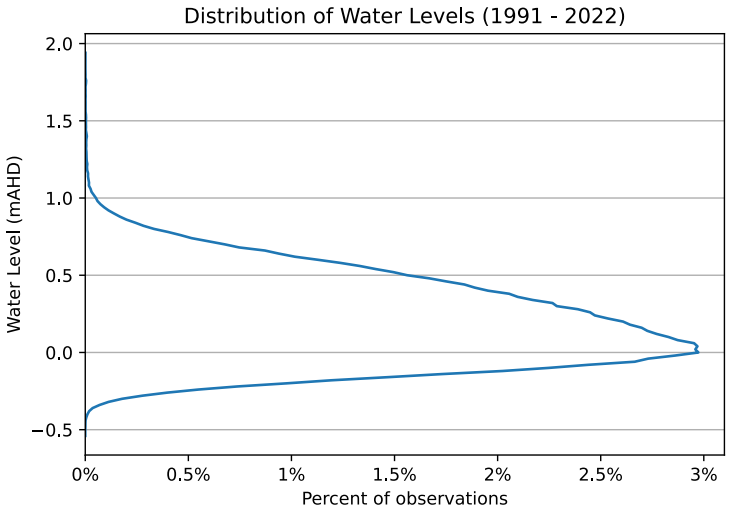
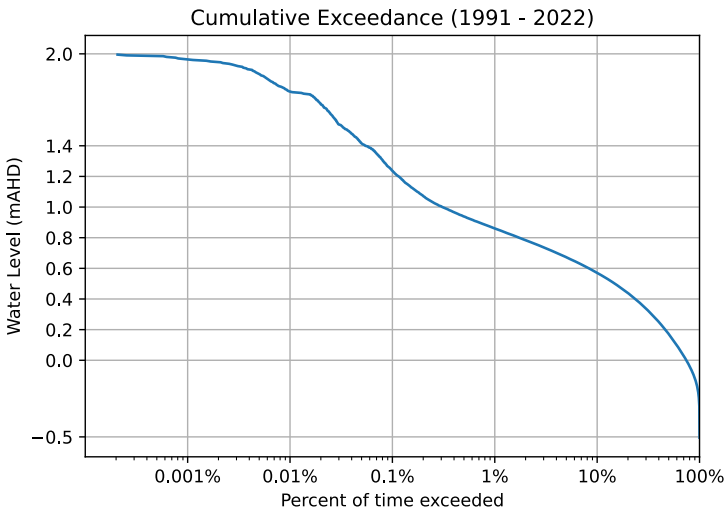
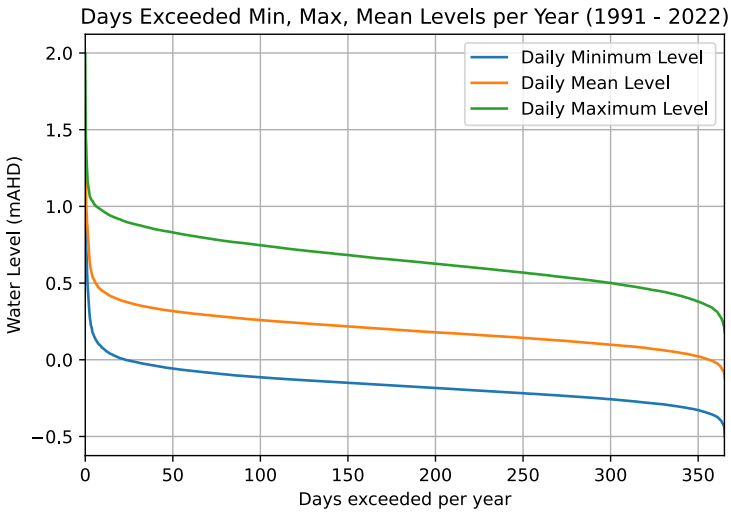
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.0	0.00004	42	42	0.0038852
1.9	0.00004	38	80	0.0074004
1.8	0.00011	115	195	0.018038
1.7	0.00007	81	276	0.025531
1.6	0.00011	120	396	0.036632
1.5	0.00018	193	589	0.054485
1.4	0.00026	286	875	0.080941
1.3	0.00034	372	1247	0.11535
1.2	0.00060	646	1893	0.17511
1.1	0.00132	1431	3324	0.30748
1.0	0.00389	4204	7528	0.69637
0.9	0.01032	11153	18681	1.7281
0.8	0.02309	24965	43646	4.0374
0.7	0.04249	45938	89584	8.2869
0.6	0.06601	71356	160940	14.888
0.5	0.08709	94144	255084	23.596
0.4	0.10542	113967	369051	34.139
0.3	0.12131	131137	500188	46.27
0.2	0.13446	145355	645543	59.716
0.1	0.14583	157646	803189	74.299
0.0	0.13668	147750	950939	87.966
-0.1	0.08663	93645	1044584	96.629
-0.2	0.02937	31754	1076338	99.566
-0.3	0.00416	4493	1080831	99.982
-0.4	0.00018	198	1081029	100

Station Information	
Station no.	205463
Station name	Wooli Caravan Park
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	524551
Northing	6697797

Summary Statistics	
Time interval (mins)	15
Start of record	26/03/1991
Highest water level recorded (m)	1.961
Date recorded	28/02/2022
Lowest water level recorded (m)	-0.560
Date recorded	20/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205463

NSW GOVERNMENT

Wooli Caravan Park (205463)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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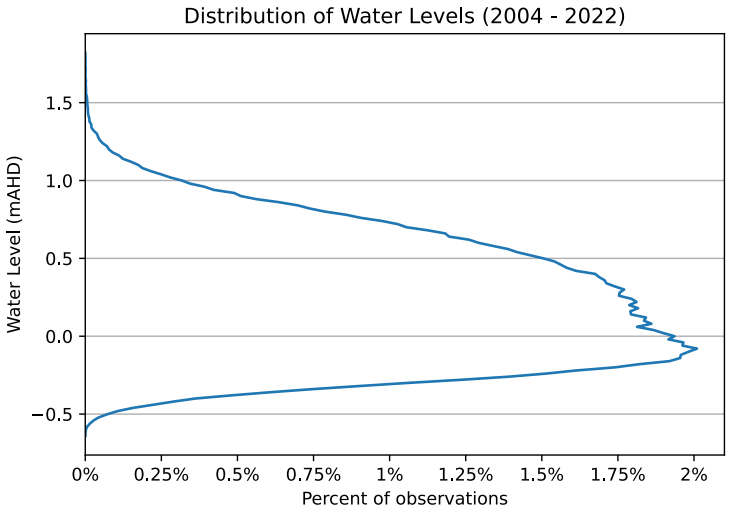
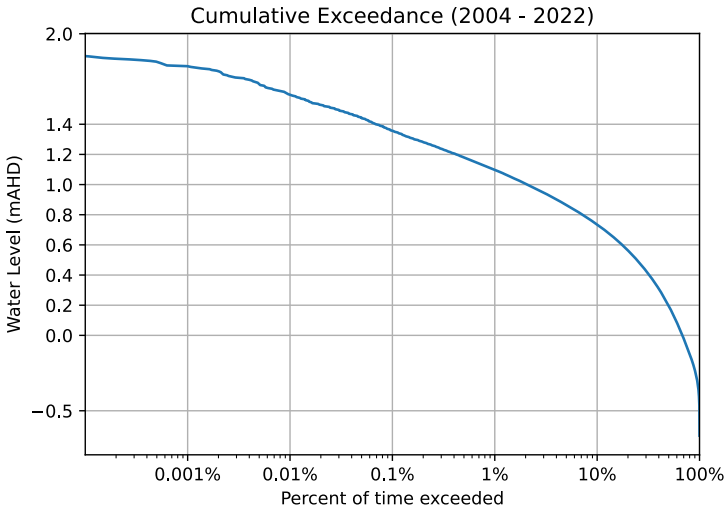
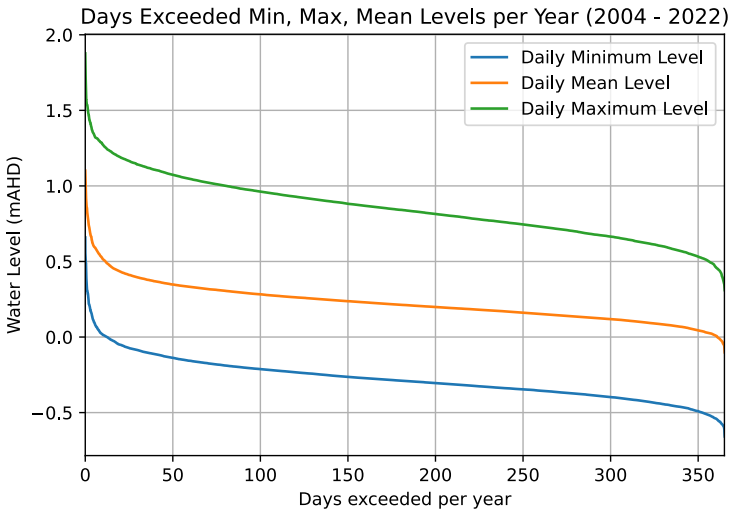
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00001	4	4	0.00064397
1.8	0.00003	19	23	0.0037028
1.7	0.00006	37	60	0.0096596
1.6	0.00018	112	172	0.027691
1.5	0.00041	256	428	0.068905
1.4	0.00095	588	1016	0.16357
1.3	0.00256	1593	2609	0.42003
1.2	0.00553	3438	6047	0.97352
1.1	0.01105	6862	12909	2.0783
1.0	0.01965	12204	25113	4.043
0.9	0.03151	19572	44685	7.194
0.8	0.04553	28280	72965	11.747
0.7	0.05820	36150	109115	17.567
0.6	0.06900	42860	151975	24.467
0.5	0.07802	48463	200438	32.269
0.4	0.08522	52931	253369	40.791
0.3	0.08886	55196	308565	49.677
0.2	0.09030	56089	364654	58.707
0.1	0.09275	57611	422265	67.982
0.0	0.09789	60806	483071	77.771
-0.1	0.09632	59831	542902	87.403
-0.2	0.07492	46535	589437	94.895
-0.3	0.03790	23539	612976	98.685
-0.4	0.01141	7089	620065	99.826
-0.5	0.00170	1059	621124	99.997
-0.6	0.00003	21	621145	100

Station Information	
Station no.	205450
Station name	Red Rock
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	521919
Northing	6683065

Summary Statistics	
Time interval (mins)	15
Start of record	02/02/2004
Highest water level recorded (m)	1.840
Date recorded	03/06/2008
Lowest water level recorded (m)	-0.661
Date recorded	29/03/2021







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205450

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Red Rock (205450)
FREQUENCY DISTRIBUTION ANALYSIS

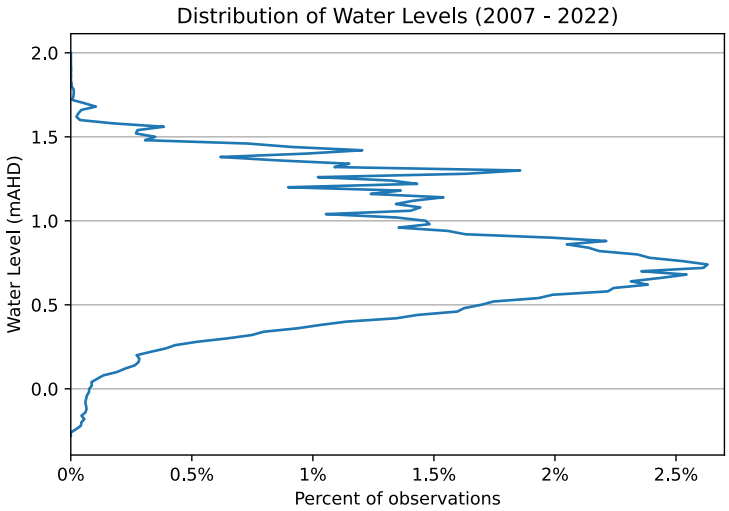
Manly Hydraulics Laboratory

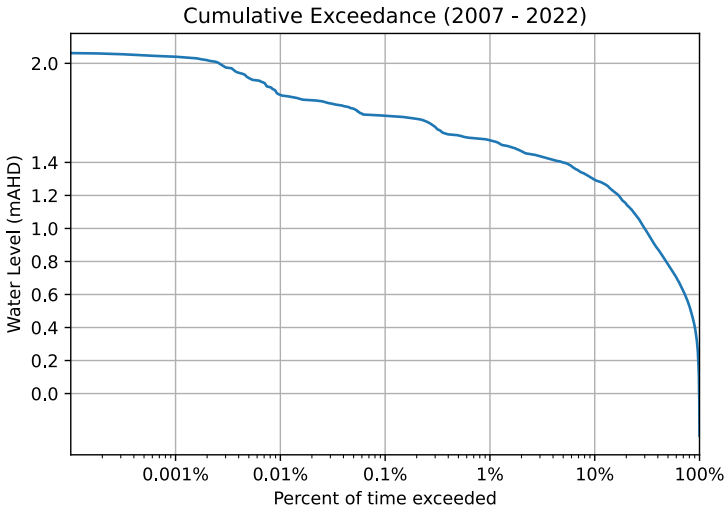
MHL2971
Figure
A56

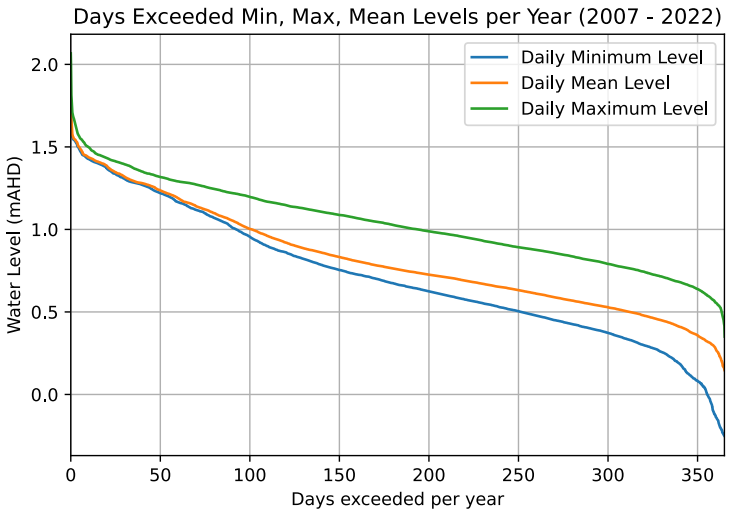
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00003	14	14	0.0026634
2.0	0.00003	15	29	0.0055169
1.9	0.00006	34	63	0.011985
1.8	0.00045	238	301	0.057262
1.7	0.00259	1360	1661	0.31599
1.6	0.01143	6010	7671	1.4593
1.5	0.03502	18408	26079	4.9613
1.4	0.04680	24601	50680	9.6413
1.3	0.07263	38176	88856	16.904
1.2	0.06456	33935	122791	23.36
1.1	0.06589	34636	157427	29.949
1.0	0.07491	39375	196802	37.44
0.9	0.10565	55537	252339	48.005
0.8	0.12503	65721	318060	60.508
0.7	0.12033	63254	381314	72.541
0.6	0.10130	53247	434561	82.671
0.5	0.07694	40442	475003	90.364
0.4	0.04648	24433	499436	95.012
0.3	0.02318	12186	511622	97.331
0.2	0.01324	6961	518583	98.655
0.1	0.00607	3191	521774	99.262
0.0	0.00341	1793	523567	99.603
-0.1	0.00289	1521	525088	99.893
-0.2	0.00107	565	525653	100

Station Information	
Station no.	205455
Station name	Woolgoolga Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	519091
Northing	6669486

Summary Statistics	
Time interval (mins)	15
Start of record	08/05/2007
Highest water level recorded (m)	2.015
Date recorded	04/06/2016
Lowest water level recorded (m)	-0.303
Date recorded	30/01/2012







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205455

NSW GOVERNMENT

Woolgoolga Lake (205455)
FREQUENCY DISTRIBUTION ANALYSIS

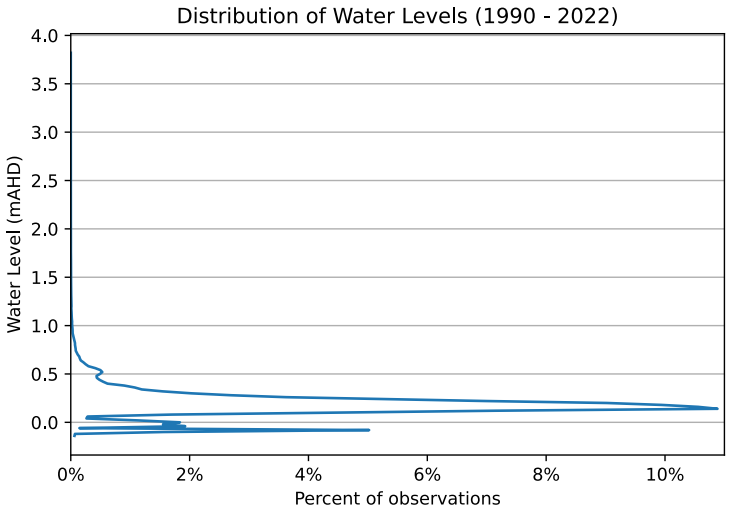
Manly Hydraulics Laboratory

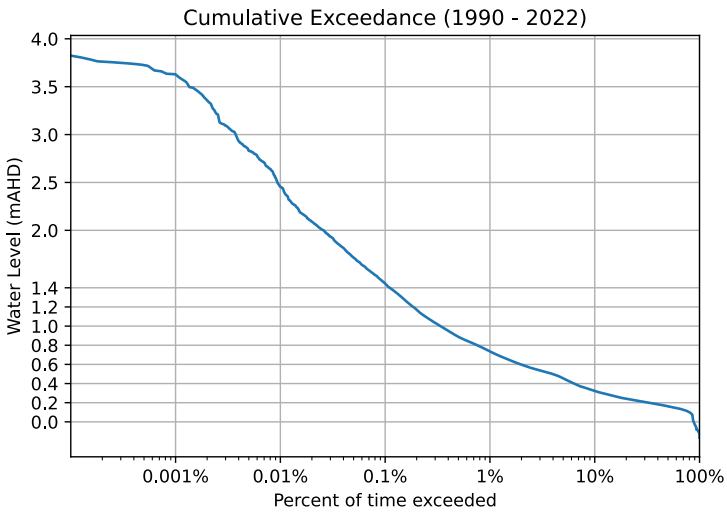
MHL2971
Figure
A57

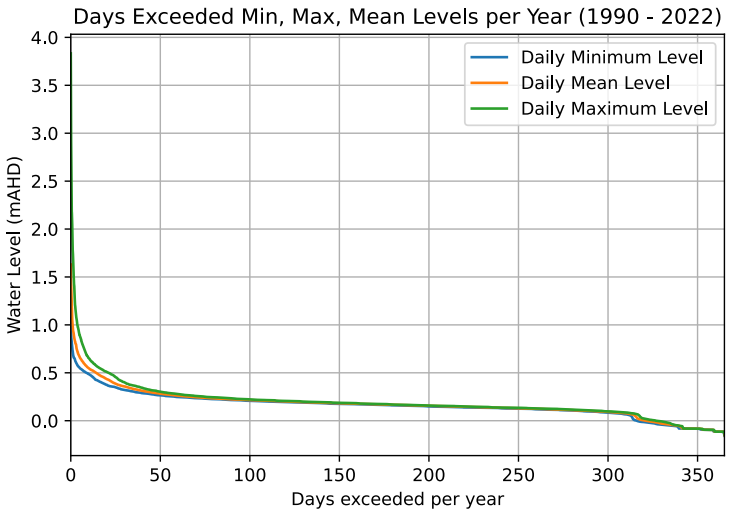
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.8	0.00001	10	10	0.00090478
3.6	0.00001	9	19	0.0017191
3.4	0.00001	8	27	0.0024429
3.2	0.00001	13	40	0.0036191
3.0	0.00002	20	60	0.0054287
2.8	0.00003	33	93	0.0084144
2.6	0.00002	25	118	0.010676
2.4	0.00004	49	167	0.01511
2.2	0.00011	117	284	0.025696
2.0	0.00016	172	456	0.041258
1.8	0.00025	279	735	0.066501
1.6	0.00044	487	1222	0.11056
1.4	0.00074	820	2042	0.18476
1.2	0.00151	1668	3710	0.33567
1.0	0.00420	4646	8356	0.75603
0.8	0.01209	13358	21714	1.9646
0.6	0.04380	48410	70124	6.3447
0.4	0.26055	287974	358098	32.4
0.2	0.55418	612501	970599	87.817
0.0	0.12182	134645	1105244	100

Station Information	
Station no.	205441
Station name	Woolgoolga
Datum	Cease to flow of control structure (1990)
MGA zone	56
Easting	515783
Northing	6668246

Summary Statistics	
Time interval (mins)	15
Start of record	15/03/1990
Highest water level recorded (m)	3.831
Date recorded	11/02/2020
Lowest water level recorded (m)	-0.164
Date recorded	28/06/2022







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205441

NSW GOVERNMENT

Woolgoolga (205441)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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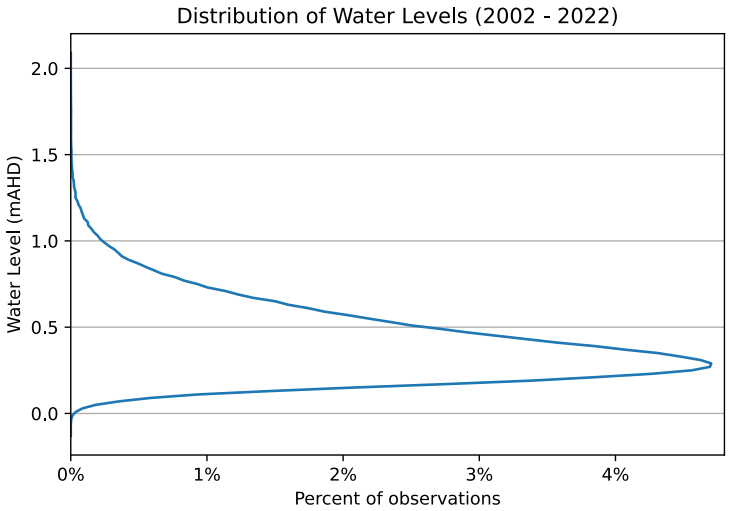
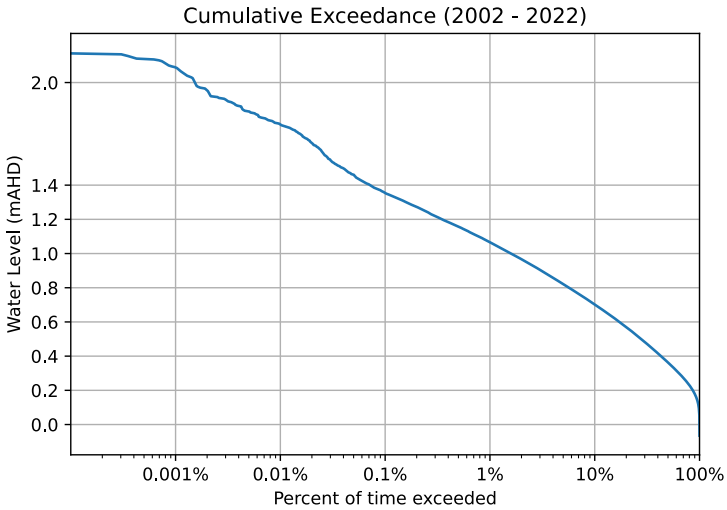
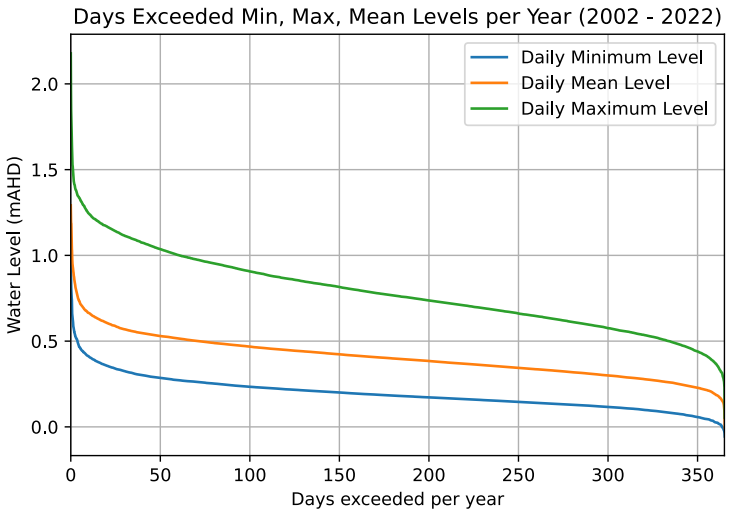
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00001	6	6	0.00087013
2.1	0.00001	5	11	0.0015952
2.0	0.00001	10	21	0.0030454
1.9	0.00003	22	43	0.0062359
1.8	0.00009	64	107	0.015517
1.7	0.00009	63	170	0.024654
1.6	0.00015	102	272	0.039446
1.5	0.00032	222	494	0.071641
1.4	0.00087	601	1095	0.1588
1.3	0.00191	1316	2411	0.34965
1.2	0.00429	2957	5368	0.77847
1.1	0.00817	5635	11003	1.5957
1.0	0.01492	10290	21293	3.0879
0.9	0.02601	17937	39230	5.6892
0.8	0.04426	30518	69748	10.115
0.7	0.07094	48919	118667	17.209
0.6	0.10538	72668	191335	27.748
0.5	0.15143	104419	295754	42.891
0.4	0.20838	143688	439442	63.728
0.3	0.22527	155333	594775	86.255
0.2	0.12064	83185	677960	98.319
0.1	0.01648	11362	689322	99.966
0.0	0.00034	232	689554	100

Station Information	
Station no.	205435
Station name	Moonee Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	514953
Northing	6658959

Summary Statistics	
Time interval (mins)	15
Start of record	16/08/2002
Highest water level recorded (m)	2.095
Date recorded	07/11/2009
Lowest water level recorded (m)	-0.153
Date recorded	19/08/2007







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205435

NSW GOVERNMENT

Moonee Creek (205435)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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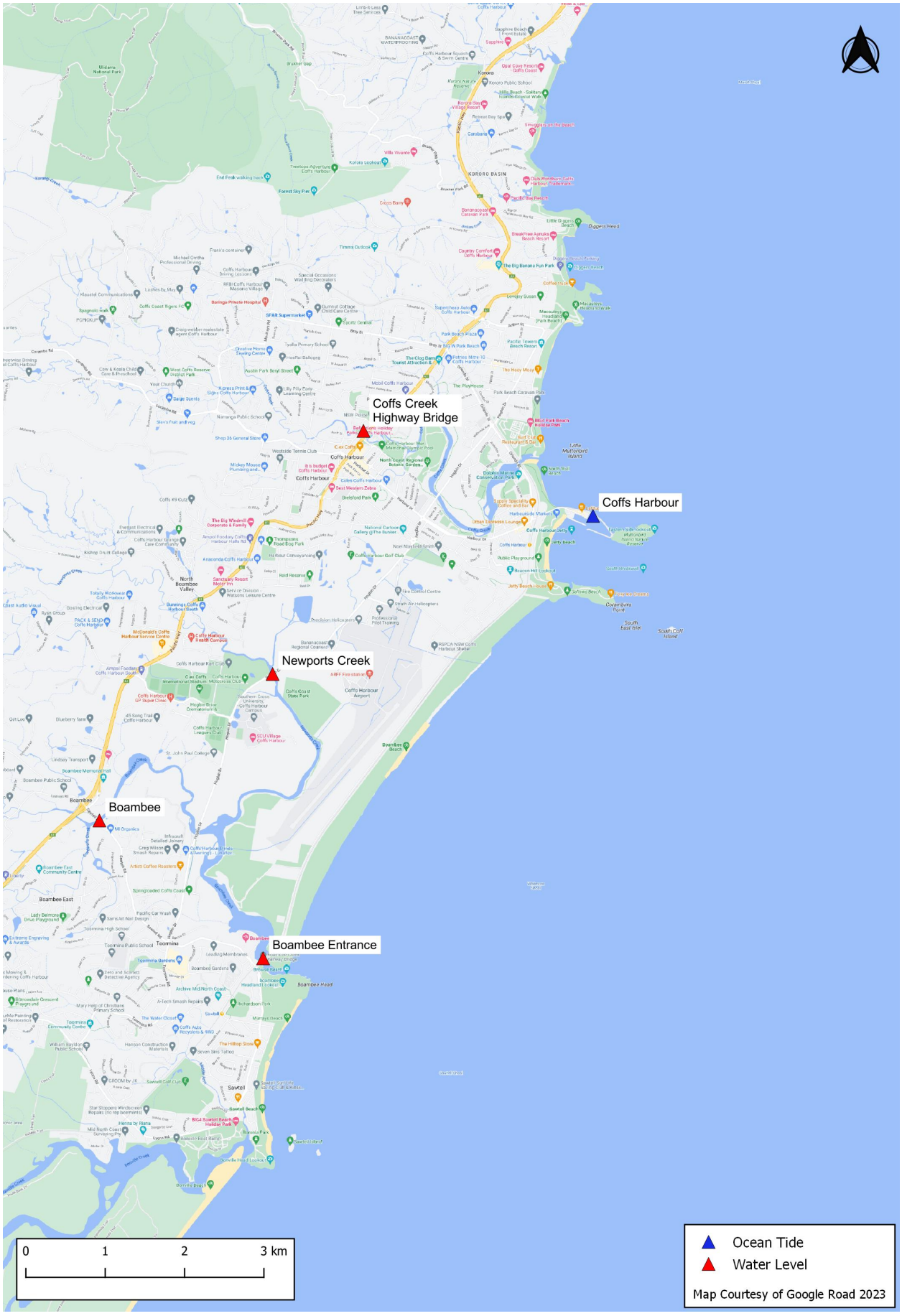


NSW GOVERNMENT

STATION LOCATIONS
COFFS HARBOUR RIVER REGION

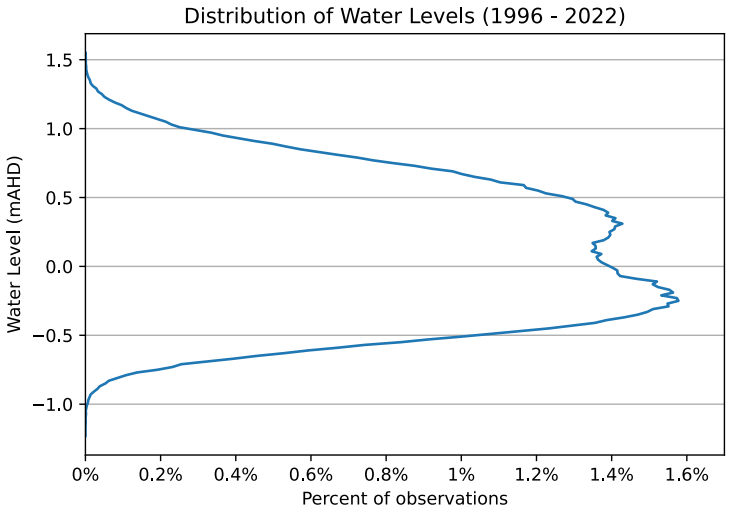
Manly Hydraulics Laboratory

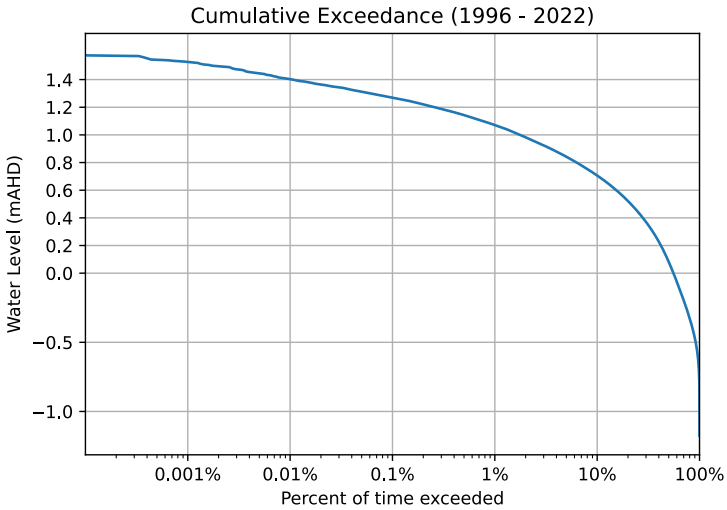
MHL2971
Figure
A60

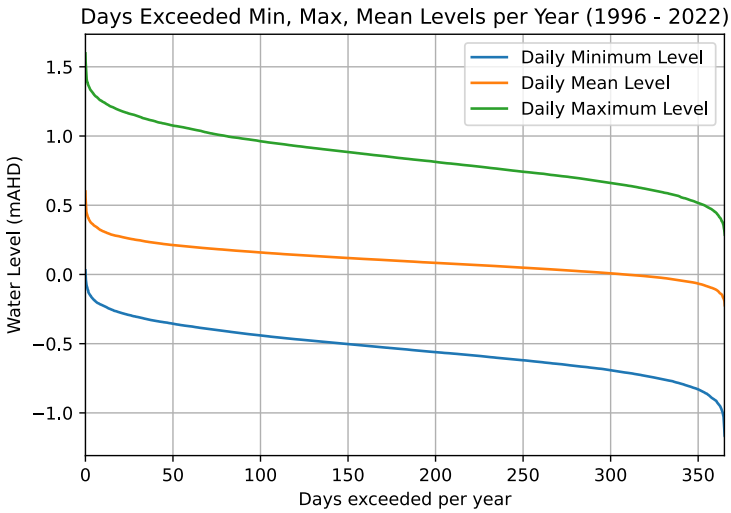
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00002	16	16	0.0017786
1.5	0.00009	79	95	0.01056
1.4	0.00050	450	545	0.060584
1.3	0.00199	1793	2338	0.2599
1.2	0.00506	4551	6889	0.7658
1.1	0.00999	8983	15872	1.7644
1.0	0.01752	15763	31635	3.5166
0.9	0.02785	25051	56686	6.3014
0.8	0.03970	35709	92395	10.271
0.7	0.05119	46049	138444	15.39
0.6	0.05945	53479	191923	21.335
0.5	0.06617	59521	251444	27.951
0.4	0.06996	62938	314382	34.948
0.3	0.07018	63129	377511	41.965
0.2	0.06812	61284	438795	48.778
0.1	0.06830	61439	500234	55.607
0.0	0.07084	63730	563964	62.692
-0.1	0.07606	68418	632382	70.297
-0.2	0.07805	70212	702594	78.102
-0.3	0.07377	66360	768954	85.479
-0.4	0.06270	56405	825359	91.749
-0.5	0.04363	39253	864612	96.113
-0.6	0.02471	22226	886838	98.583
-0.7	0.01024	9214	896052	99.608
-0.8	0.00308	2767	898819	99.915
-0.9	0.00072	645	899464	99.987
-1.0	0.00011	102	899566	99.998
-1.1	0.00002	16	899582	100

Station Information	
Station no.	205470
Station name	Coffs Harbour
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	514052
Northing	6647645

Summary Statistics	
Time interval (mins)	15
Start of record	16/08/1996
Highest water level recorded (m)	1.565
Date recorded	04/06/2016
Lowest water level recorded (m)	-1.252
Date recorded	08/10/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205470

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Coffs Harbour (205470)
FREQUENCY DISTRIBUTION ANALYSIS

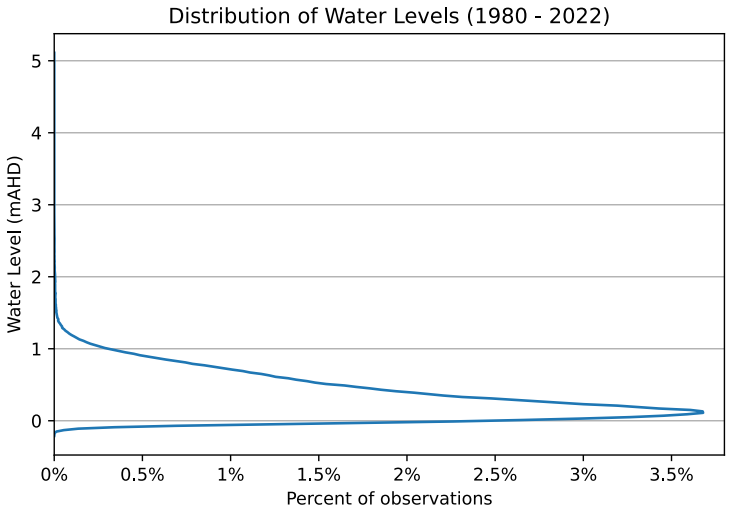
Manly Hydraulics Laboratory

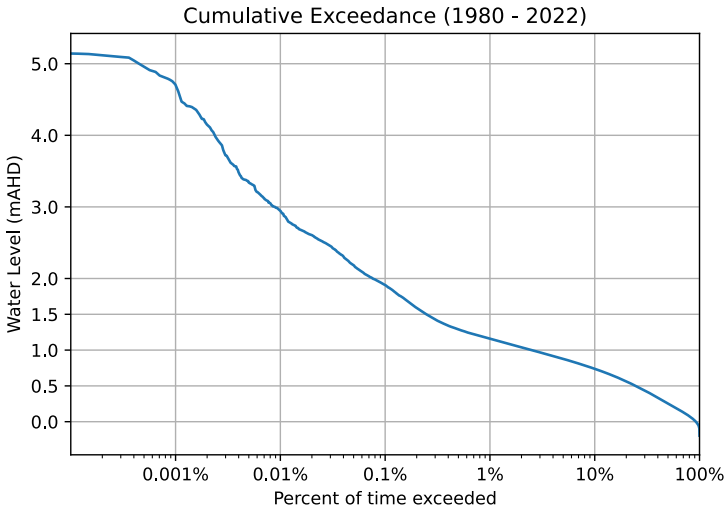
MHL2971
Figure
A61

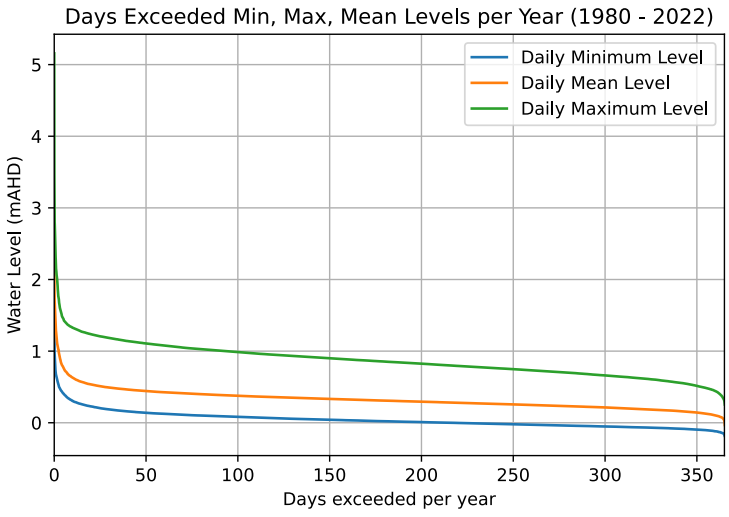
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.4	0.00000	0	0	0
5.2	0.00001	7	7	0.0005001
5.0	0.00000	5	12	0.00085731
4.8	0.00000	3	15	0.0010716
4.6	0.00000	5	20	0.0014288
4.4	0.00001	7	27	0.0019289
4.2	0.00001	7	34	0.002429
4.0	0.00000	6	40	0.0028577
3.8	0.00001	9	49	0.0035007
3.6	0.00001	11	60	0.0042865
3.4	0.00002	26	86	0.006144
3.2	0.00003	39	125	0.0089303
3.0	0.00003	41	166	0.011859
2.8	0.00008	118	284	0.02029
2.6	0.00013	183	467	0.033364
2.4	0.00015	214	681	0.048652
2.2	0.00028	387	1068	0.0763
2.0	0.00050	704	1772	0.1266
1.8	0.00068	953	2725	0.19468
1.6	0.00131	1839	4564	0.32606
1.4	0.00459	6423	10987	0.78494
1.2	0.01711	23945	34932	2.4956
1.0	0.04981	69717	104649	7.4764
0.8	0.10091	141251	245900	17.568
0.6	0.15744	220373	466273	33.312
0.4	0.24929	348934	815207	58.24
0.2	0.33955	475276	1290483	92.195
0.0	0.07805	109247	1399730	100

Station Information	
Station no.	205439
Station name	Coffs Creek Highway Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	511160
Northing	6648716

Summary Statistics	
Time interval (mins)	15
Start of record	03/12/1980
Highest water level recorded (m)	5.130
Date recorded	31/03/2009
Lowest water level recorded (m)	-0.230
Date recorded	22/12/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205439

NSW GOVERNMENT

Coffs Creek Highway Bridge (205439)
FREQUENCY DISTRIBUTION ANALYSIS

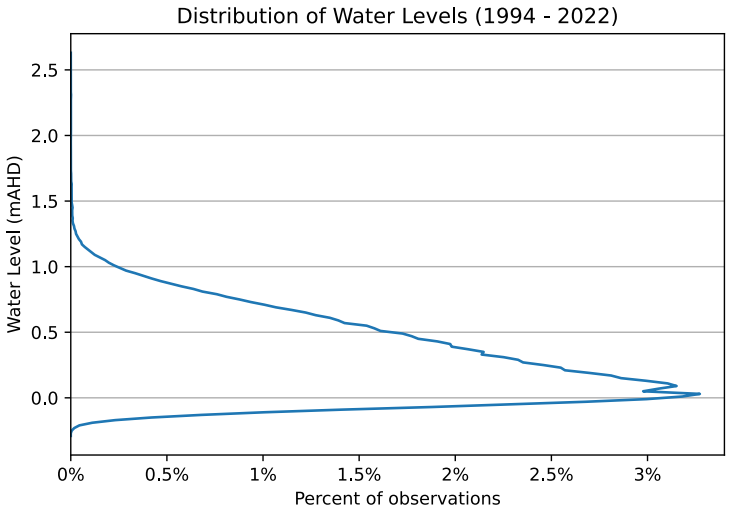
Manly Hydraulics Laboratory

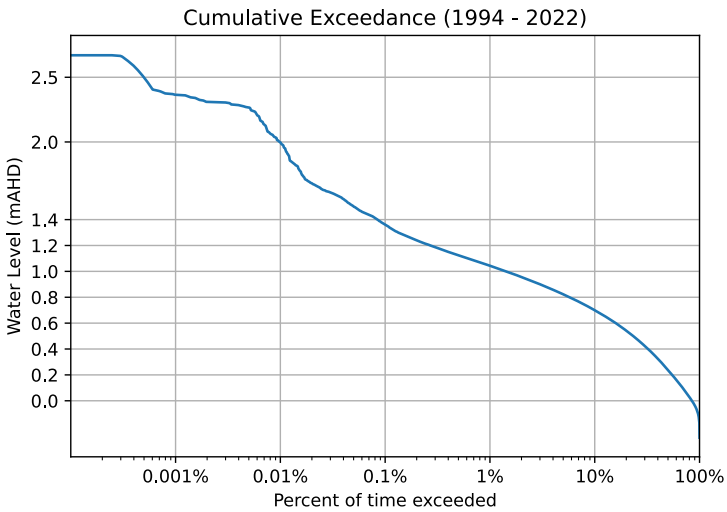
MHL2971
Figure
A62

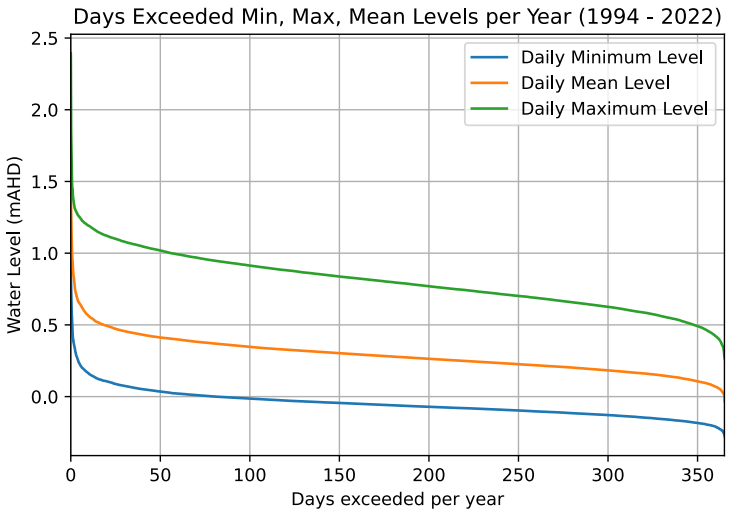
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.7	0.00000	4	4	0.0004035
2.6	0.00000	1	5	0.00050438
2.5	0.00000	2	7	0.00070613
2.4	0.00003	26	33	0.0033289
2.3	0.00003	29	62	0.0062543
2.2	0.00001	12	74	0.0074648
2.1	0.00002	24	98	0.0098858
2.0	0.00002	20	118	0.011903
1.9	0.00003	29	147	0.014829
1.8	0.00003	33	180	0.018158
1.7	0.00014	140	320	0.03228
1.6	0.00018	178	498	0.050236
1.5	0.00034	339	837	0.084433
1.4	0.00049	483	1320	0.13316
1.3	0.00137	1358	2678	0.27015
1.2	0.00347	3436	6114	0.61676
1.1	0.00813	8059	14173	1.4297
1.0	0.01581	15669	29842	3.0103
0.9	0.02749	27254	57096	5.7596
0.8	0.04223	41868	98964	9.9831
0.7	0.05895	58436	157400	15.878
0.6	0.07424	73594	230994	23.302
0.5	0.08989	89110	320104	32.291
0.4	0.10453	103619	423723	42.743
0.3	0.12107	120023	543746	54.851
0.2	0.14188	140646	684392	69.039
0.1	0.15640	155041	839433	84.679
0.0	0.12141	120357	959790	96.82
-0.1	0.03068	30410	990200	99.887
-0.2	0.00113	1117	991317	100

Station Information	
Station no.	205460
Station name	Newports Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	510016
Northing	6645652

Summary Statistics	
Time interval (mins)	15
Start of record	18/03/1994
Highest water level recorded (m)	2.640
Date recorded	31/03/2009
Lowest water level recorded (m)	-0.310
Date recorded	28/01/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205460

NSW GOVERNMENT

Newports Creek (205460)
FREQUENCY DISTRIBUTION ANALYSIS

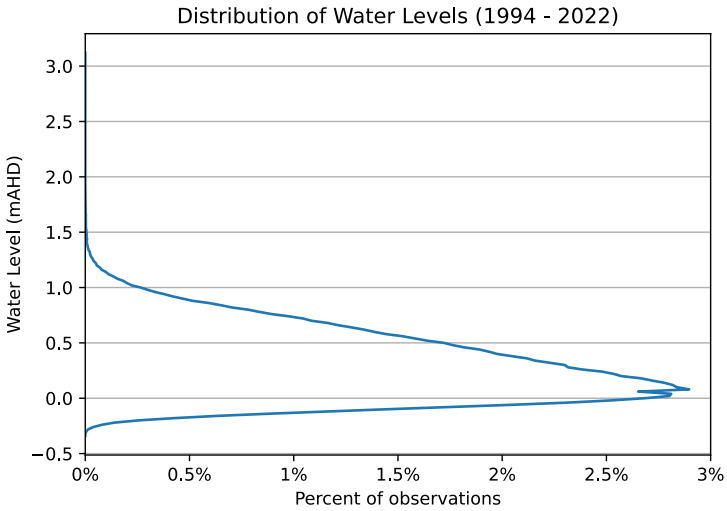
Manly Hydraulics Laboratory

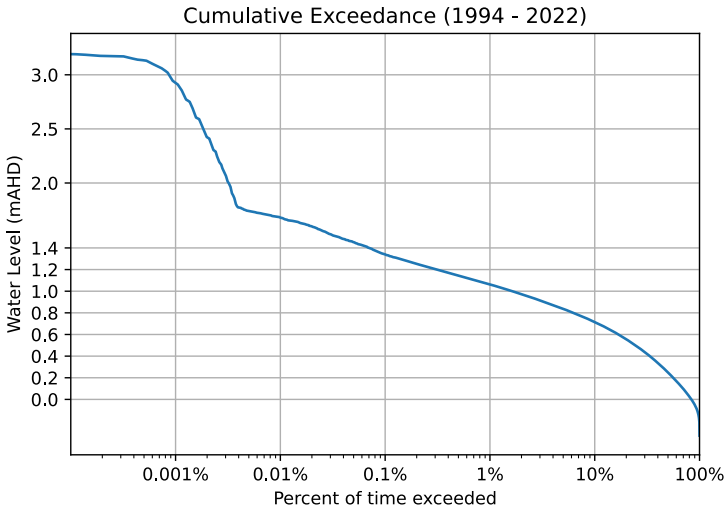
MHL2971
Figure
A63

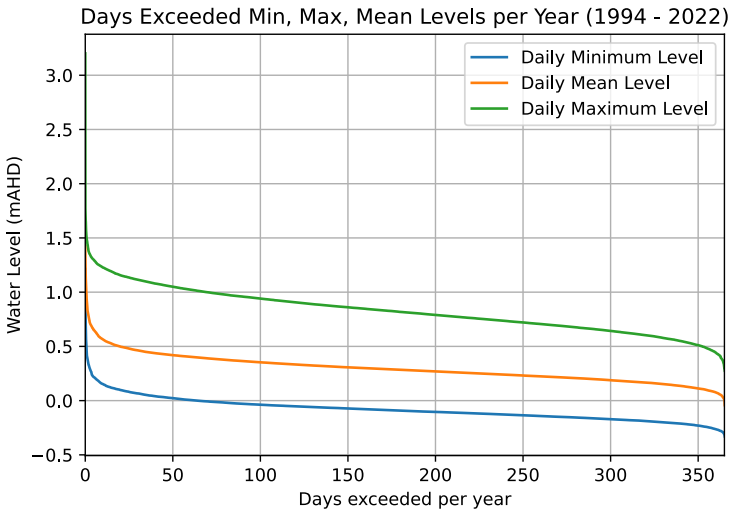
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00001	5	5	0.00052397
3.1	0.00000	3	8	0.00083835
3.0	0.00000	2	10	0.0010479
2.9	0.00000	1	11	0.0011527
2.8	0.00000	2	13	0.0013623
2.7	0.00000	2	15	0.0015719
2.6	0.00000	2	17	0.0017815
2.5	0.00000	3	20	0.0020959
2.4	0.00000	2	22	0.0023055
2.3	0.00000	2	24	0.0025151
2.2	0.00000	3	27	0.0028294
2.1	0.00000	3	30	0.0031438
2.0	0.00000	3	33	0.0034582
1.9	0.00000	3	36	0.0037726
1.8	0.00004	41	77	0.0080691
1.7	0.00012	112	189	0.019806
1.6	0.00016	156	345	0.036154
1.5	0.00034	325	670	0.070212
1.4	0.00067	641	1311	0.13738
1.3	0.00177	1690	3001	0.31449
1.2	0.00416	3971	6972	0.73062
1.1	0.00894	8527	15499	1.6242
1.0	0.01697	16191	31690	3.3209
0.9	0.02930	27960	59650	6.251
0.8	0.04532	43250	102900	10.783
0.7	0.06072	57947	160847	16.856
0.6	0.07569	72223	233070	24.424
0.5	0.09128	87102	320172	33.552
0.4	0.10522	100402	420574	44.074
0.3	0.12012	114628	535202	56.086
0.2	0.13548	129283	664485	69.634
0.1	0.14000	133596	798081	83.634
0.0	0.11298	107809	905890	94.932
-0.1	0.04532	43246	949136	99.464
-0.2	0.00530	5062	954198	99.994
-0.3	0.00006	54	954252	100

Station Information	
Station no.	205438
Station name	Boambee
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	507834
Northing	6643805

Summary Statistics	
Time interval (mins)	15
Start of record	18/03/1994
Highest water level recorded (m)	3.140
Date recorded	23/11/1996
Lowest water level recorded (m)	-0.360
Date recorded	28/01/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205438

NSW GOVERNMENT

Boambee (205438)
FREQUENCY DISTRIBUTION ANALYSIS

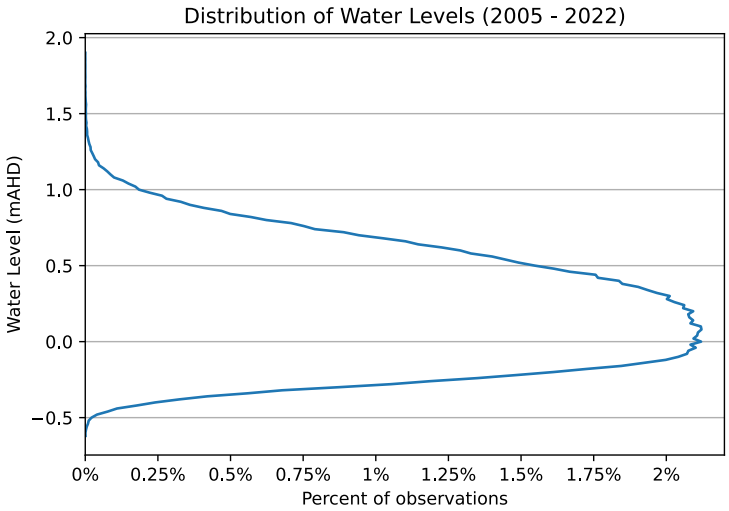
Manly Hydraulics Laboratory

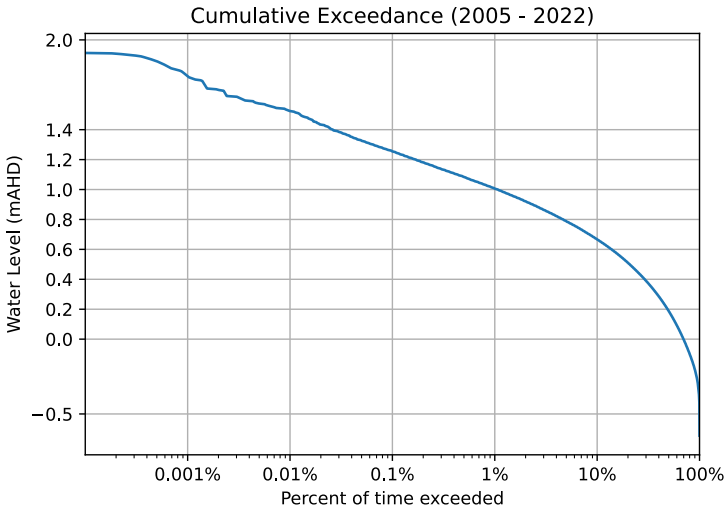
MHL2971
Figure
A64

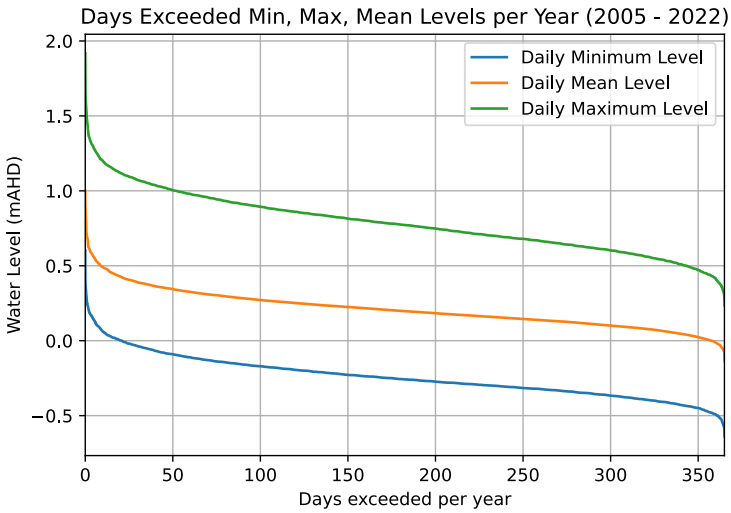
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00001	3	3	0.0005175
1.8	0.00001	4	7	0.0012075
1.7	0.00002	12	19	0.0032775
1.6	0.00009	53	72	0.01242
1.5	0.00014	79	151	0.026047
1.4	0.00039	226	377	0.065032
1.3	0.00104	604	981	0.16922
1.2	0.00264	1530	2511	0.43315
1.1	0.00636	3689	6200	1.0695
1.0	0.01279	7413	13613	2.3482
0.9	0.02305	13365	26978	4.6537
0.8	0.03764	21820	48798	8.4176
0.7	0.05440	31538	80336	13.858
0.6	0.06956	40322	120658	20.813
0.5	0.08349	48401	169059	29.163
0.4	0.09491	55023	224082	38.654
0.3	0.10161	58905	282987	48.815
0.2	0.10422	60420	343407	59.238
0.1	0.10548	61150	404557	69.786
0.0	0.10451	60586	465143	80.237
-0.1	0.09530	55244	520387	89.767
-0.2	0.06685	38755	559142	96.452
-0.3	0.02851	16527	575669	99.303
-0.4	0.00645	3742	579411	99.948
-0.5	0.00050	290	579701	99.998
-0.6	0.00001	8	579709	100

Station Information	
Station no.	205475
Station name	Boambee Entrance
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	509896
Northing	6642068

Summary Statistics	
Time interval (mins)	15
Start of record	03/03/2005
Highest water level recorded (m)	1.917
Date recorded	04/06/2016
Lowest water level recorded (m)	-0.639
Date recorded	05/12/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205475

NSW GOVERNMENT

Boambee Entrance (205475)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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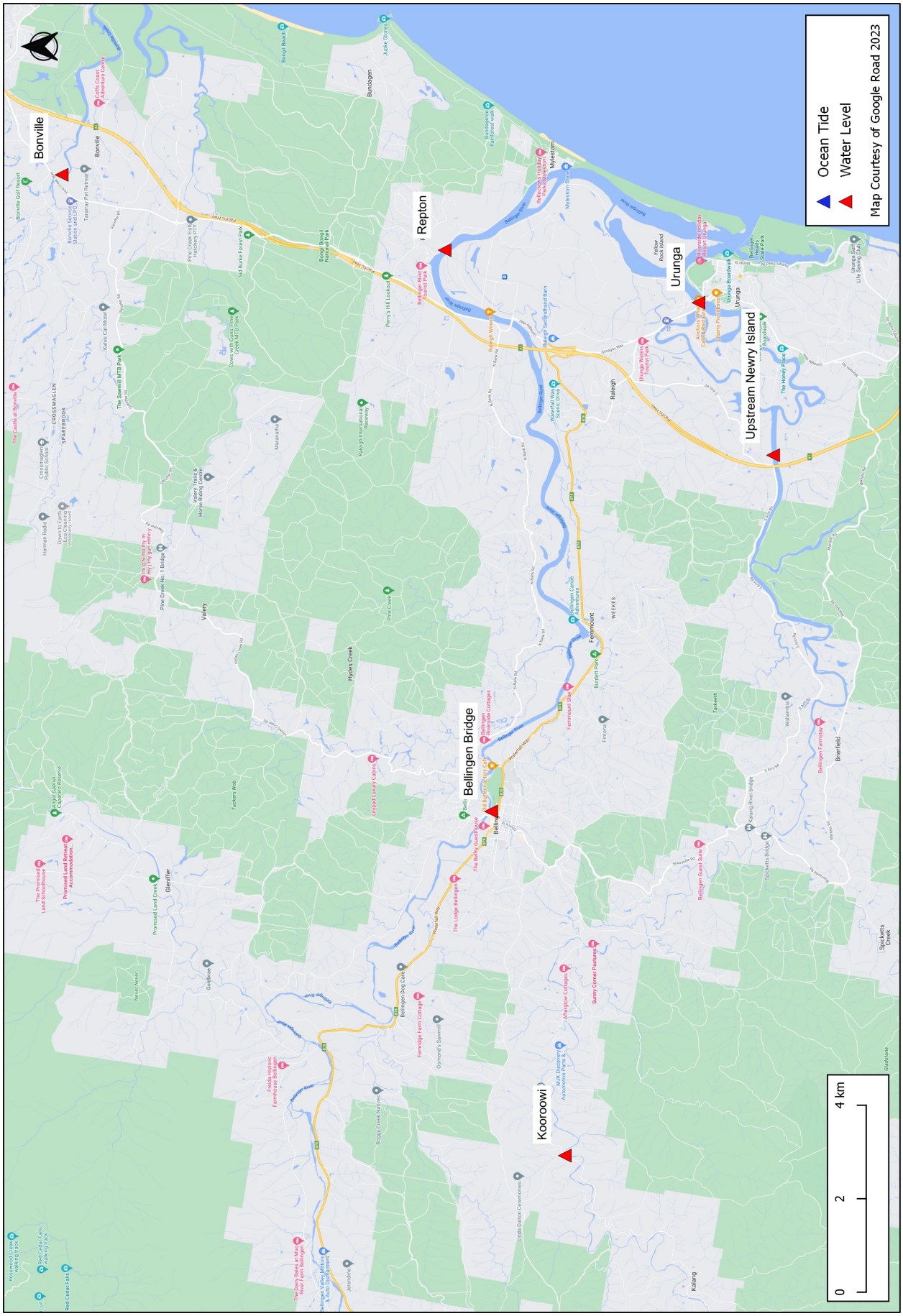


NSW GOVERNMENT

STATION LOCATIONS
BELLINGER RIVER REGION

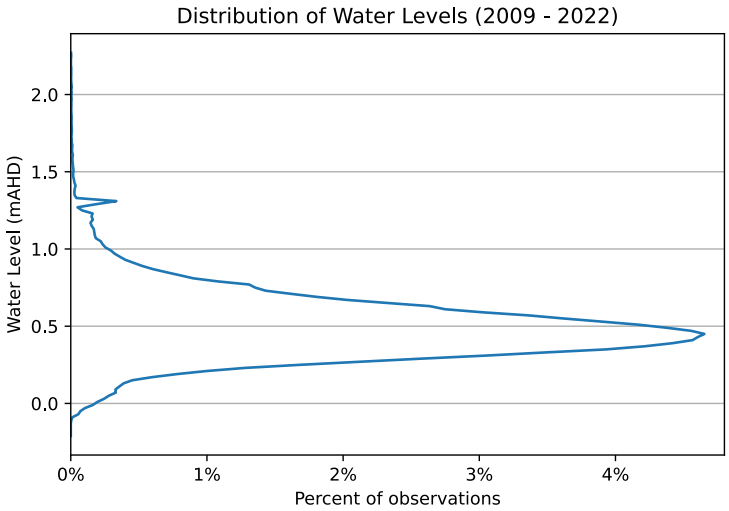
Manly Hydraulics Laboratory

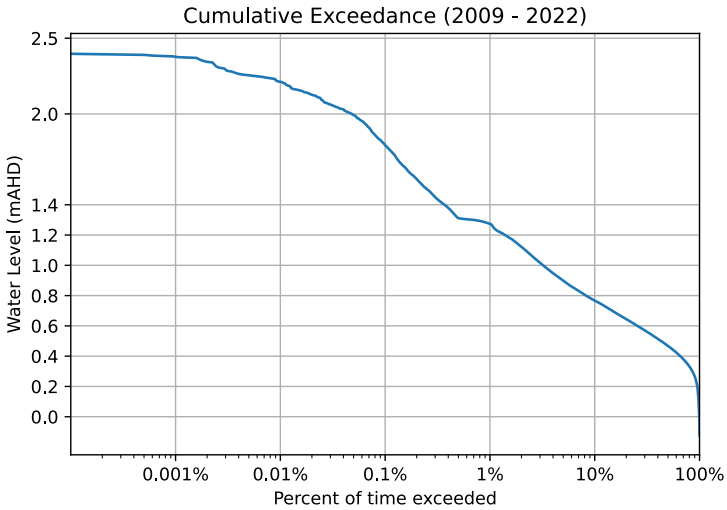
Report MHL2902
Figure
A66

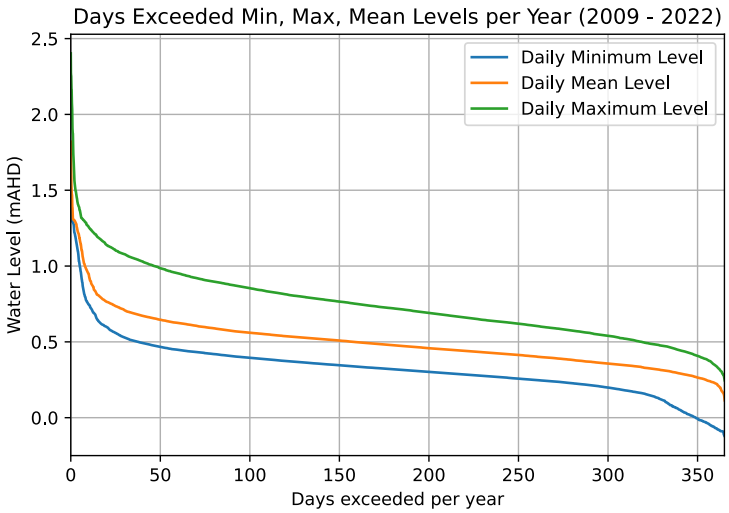
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00003	13	13	0.0028965
2.3	0.00008	36	49	0.010918
2.2	0.00013	60	109	0.024286
2.1	0.00024	107	216	0.048126
2.0	0.00024	108	324	0.072189
1.9	0.00027	119	443	0.098703
1.8	0.00032	143	586	0.13056
1.7	0.00048	216	802	0.17869
1.6	0.00074	332	1134	0.25266
1.5	0.00115	514	1648	0.36719
1.4	0.00336	1506	3154	0.70273
1.3	0.00692	3107	6261	1.395
1.2	0.00794	3565	9826	2.1893
1.1	0.01024	4598	14424	3.2138
1.0	0.01721	7723	22147	4.9345
0.9	0.03314	14874	37021	8.2485
0.8	0.06419	28808	65829	14.667
0.7	0.10980	49279	115108	25.647
0.6	0.17359	77911	193019	43.006
0.5	0.22615	101500	294519	65.621
0.4	0.19876	89209	383728	85.497
0.3	0.09674	43417	427145	95.171
0.2	0.02863	12850	439995	98.034
0.1	0.01466	6578	446573	99.5
0.0	0.00493	2214	448787	99.993
-0.1	0.00007	31	448818	100

Station Information	
Station no.	205480
Station name	Bonville
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	503975
Northing	6640378

Summary Statistics	
Time interval (mins)	15
Start of record	21/08/2009
Highest water level recorded (m)	2.290
Date recorded	06/11/2009
Lowest water level recorded (m)	-0.230
Date recorded	11/07/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205480

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Bonville (205480)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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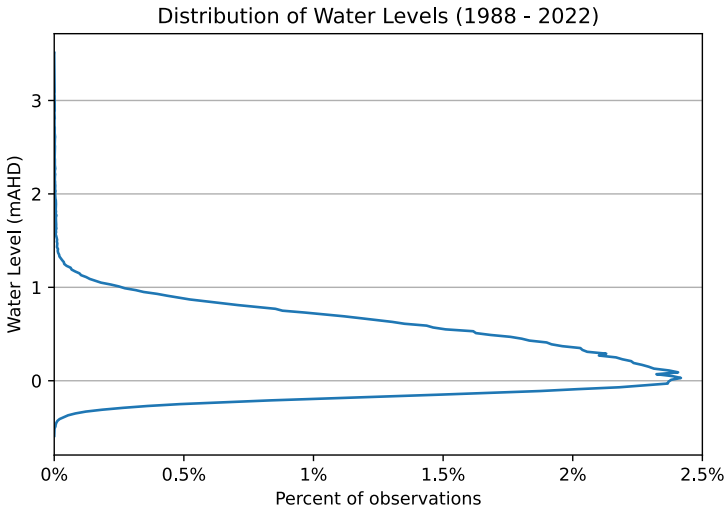
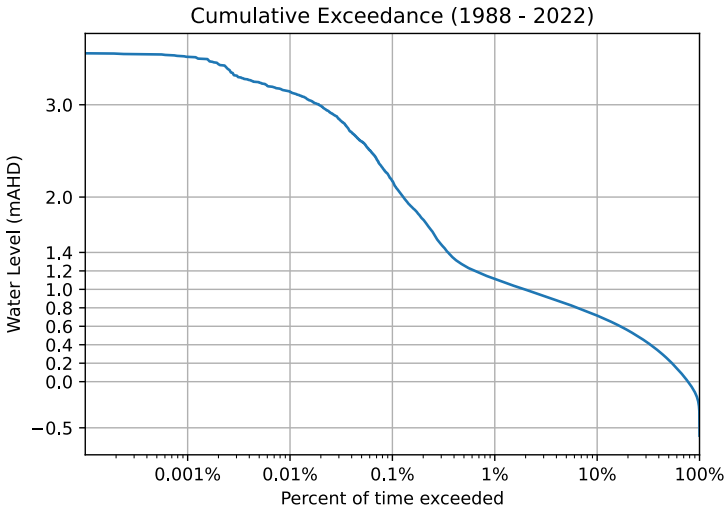
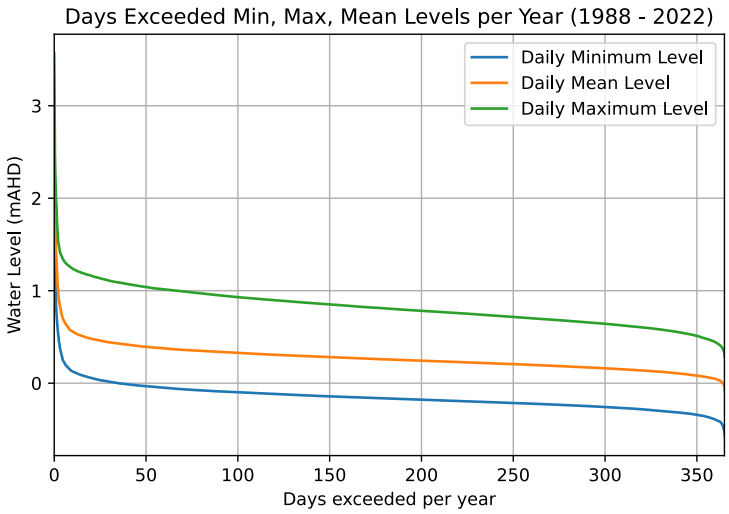
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.6	0.00002	27	27	0.0024748
3.4	0.00004	40	67	0.0061411
3.2	0.00013	142	209	0.019157
3.0	0.00014	157	366	0.033547
2.8	0.00016	180	546	0.050045
2.6	0.00021	229	775	0.071035
2.4	0.00025	273	1048	0.096058
2.2	0.00032	348	1396	0.12795
2.0	0.00058	631	2027	0.18579
1.8	0.00069	758	2785	0.25527
1.6	0.00094	1021	3806	0.34885
1.4	0.00284	3100	6906	0.63299
1.2	0.01319	14392	21298	1.9521
1.0	0.04478	48853	70151	6.4299
0.8	0.10386	113312	183463	16.816
0.6	0.16365	178549	362012	33.181
0.4	0.20659	225393	587405	53.841
0.2	0.23299	254193	841598	77.139
0.0	0.19228	209783	1051381	96.368
-0.2	0.03564	38880	1090261	99.931
-0.4	0.00069	748	1091009	100

Station Information	
Station no.	205403
Station name	Repton
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	502358
Northing	6632218

Summary Statistics	
Time interval (mins)	15
Start of record	02/06/1988
Highest water level recorded (m)	3.530
Date recorded	01/04/2009
Lowest water level recorded (m)	-0.610
Date recorded	03/11/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205403

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Repton (205403)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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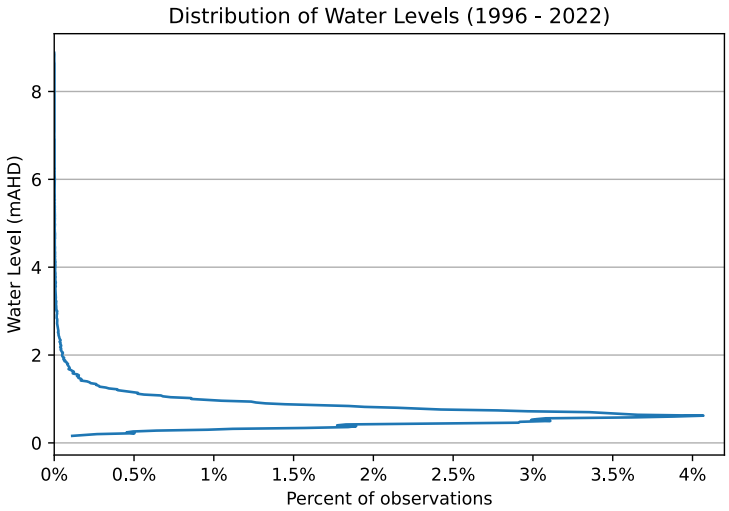
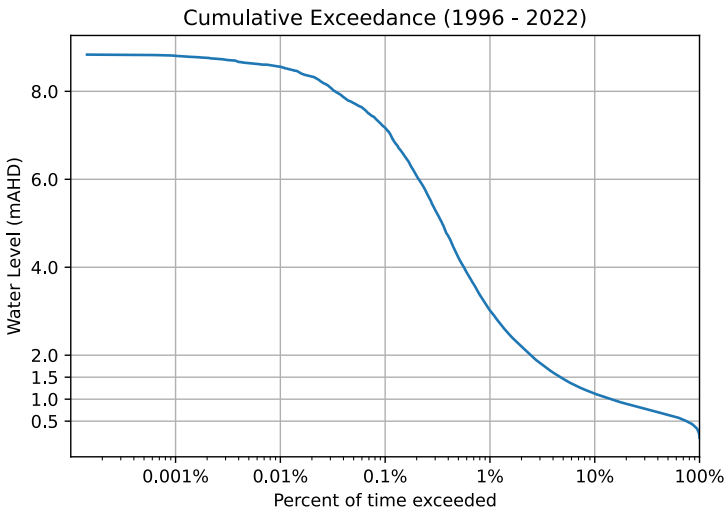
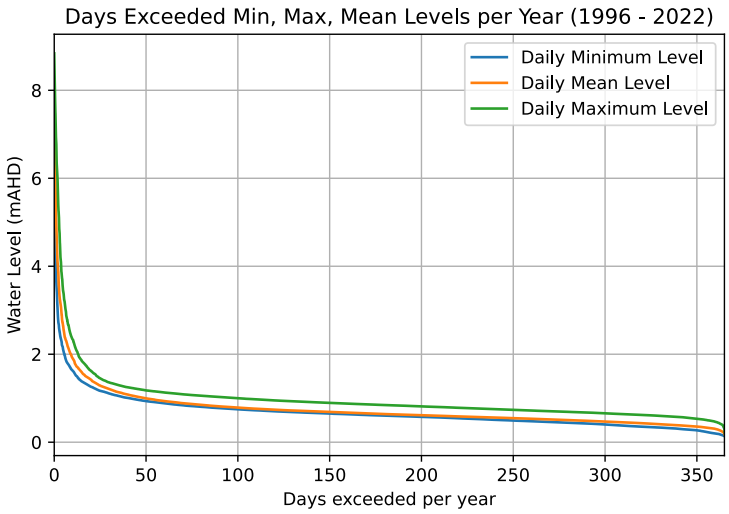
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
8.8	0.00011	99	99	0.010981
8.5	0.00013	120	219	0.024291
8.2	0.00013	118	337	0.037379
7.9	0.00024	217	554	0.061448
7.6	0.00025	223	777	0.086182
7.3	0.00026	233	1010	0.11203
7.0	0.00023	204	1214	0.13465
6.7	0.00032	290	1504	0.16682
6.4	0.00030	267	1771	0.19643
6.1	0.00039	348	2119	0.23503
5.8	0.00038	340	2459	0.27274
5.5	0.00043	384	2843	0.31534
5.2	0.00049	440	3283	0.36414
4.9	0.00057	517	3800	0.42148
4.6	0.00059	534	4334	0.48071
4.3	0.00083	746	5080	0.56346
4.0	0.00101	908	5988	0.66417
3.7	0.00122	1098	7086	0.78596
3.4	0.00158	1422	8508	0.94368
3.1	0.00231	2087	10595	1.1752
2.8	0.00317	2857	13452	1.4921
2.5	0.00507	4568	18020	1.9987
2.2	0.00729	6570	24590	2.7274
1.9	0.01313	11834	36424	4.04
1.6	0.02666	24033	60457	6.7057
1.3	0.07497	67588	128045	14.202
1.0	0.26166	235906	363951	40.368
0.7	0.47807	431016	794967	88.175
0.4	0.11824	106600	901567	99.999

Station Information	
Station no.	205442
Station name	Bellingen Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	490336
Northing	6631224

Summary Statistics	
Time interval (mins)	15
Start of record	17/07/1996
Highest water level recorded (m)	8.893
Date recorded	23/02/2013
Lowest water level recorded (m)	0.144
Date recorded	11/10/2021







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205442

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Bellingen Bridge (205442)
FREQUENCY DISTRIBUTION ANALYSIS

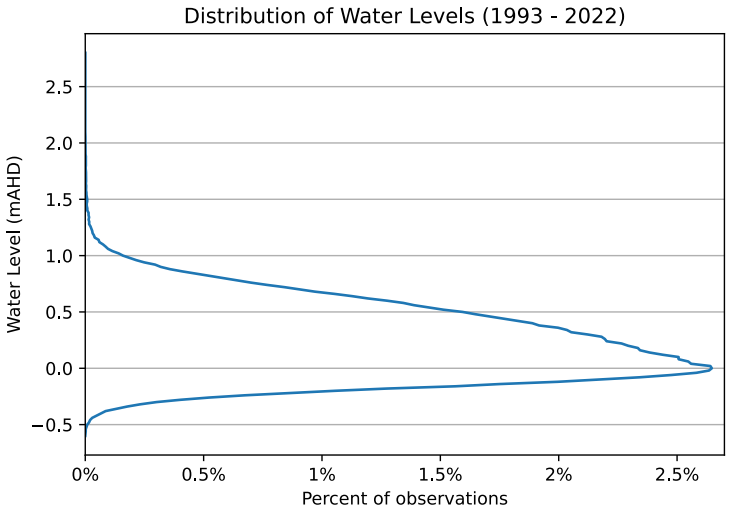
Manly Hydraulics Laboratory

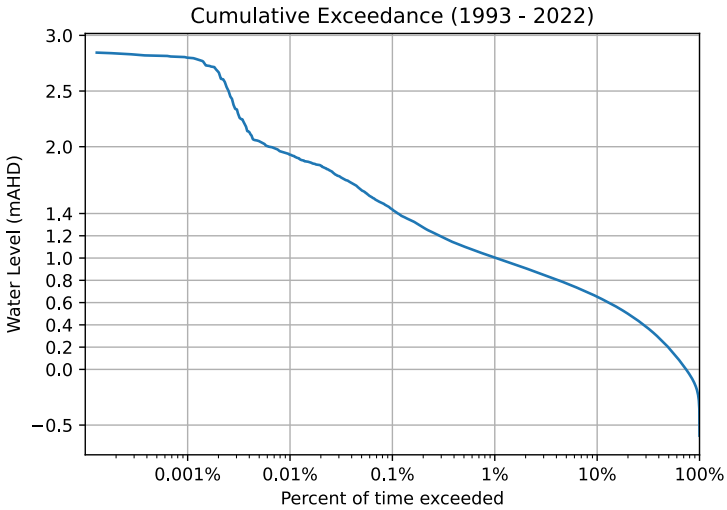
MHL2971
Figure
A69

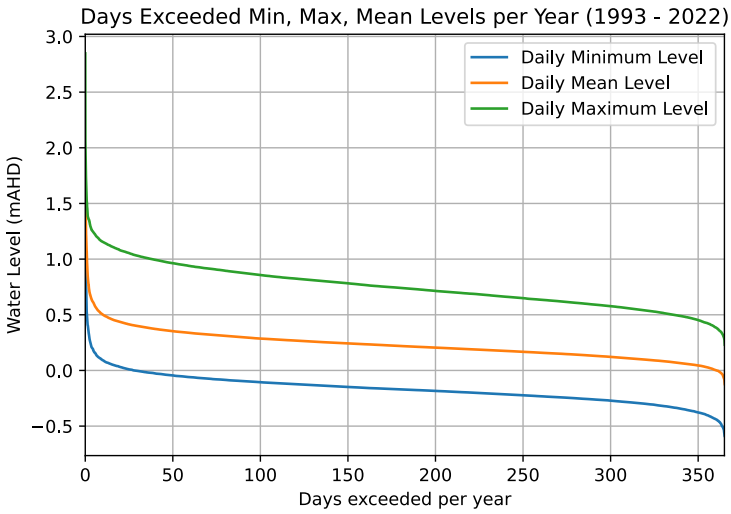
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.8	0.00001	9	9	0.00090644
2.7	0.00000	4	13	0.0013093
2.6	0.00000	2	15	0.0015107
2.5	0.00000	3	18	0.0018129
2.4	0.00000	3	21	0.002115
2.3	0.00001	5	26	0.0026186
2.2	0.00001	6	32	0.0032229
2.1	0.00002	20	52	0.0052372
2.0	0.00006	55	107	0.010777
1.9	0.00011	109	216	0.021755
1.8	0.00012	123	339	0.034143
1.7	0.00017	170	509	0.051264
1.6	0.00024	236	745	0.075033
1.5	0.00037	370	1115	0.1123
1.4	0.00067	663	1778	0.17907
1.3	0.00109	1086	2864	0.28845
1.2	0.00223	2219	5083	0.51194
1.1	0.00512	5085	10168	1.0241
1.0	0.01106	10979	21147	2.1298
0.9	0.02069	20547	41694	4.1993
0.8	0.03533	35082	76776	7.7326
0.7	0.05251	52133	128909	12.983
0.6	0.06972	69226	198135	19.955
0.5	0.08546	84850	282985	28.501
0.4	0.09890	98200	381185	38.391
0.3	0.10966	108879	490064	49.357
0.2	0.11794	117104	607168	61.152
0.1	0.12760	126696	733864	73.912
0.0	0.12680	125900	859764	86.592
-0.1	0.08760	86982	946746	95.353
-0.2	0.03518	34931	981677	98.871
-0.3	0.00929	9219	990896	99.799
-0.4	0.00181	1799	992695	99.98
-0.5	0.00019	185	992880	99.999

Station Information	
Station no.	205407
Station name	Urunga
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	501233
Northing	6626813

Summary Statistics	
Time interval (mins)	15
Start of record	20/09/1993
Highest water level recorded (m)	2.820
Date recorded	01/04/2009
Lowest water level recorded (m)	-0.619
Date recorded	03/01/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205407

NSW GOVERNMENT

Urunga (205407)
FREQUENCY DISTRIBUTION ANALYSIS

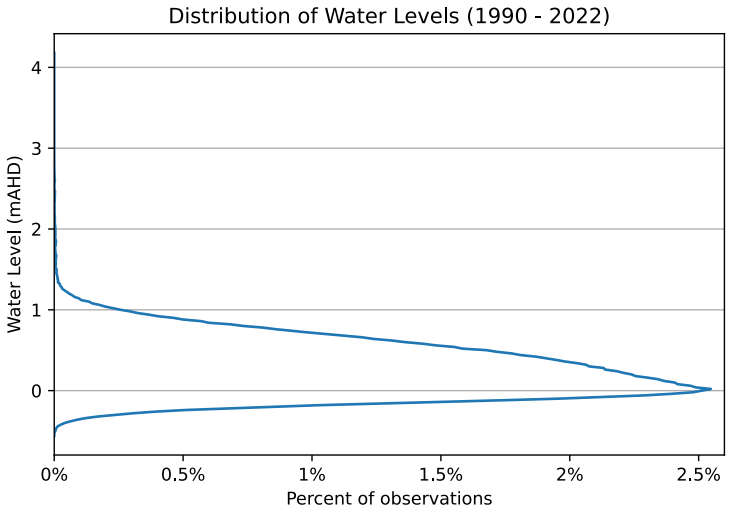
Manly Hydraulics Laboratory

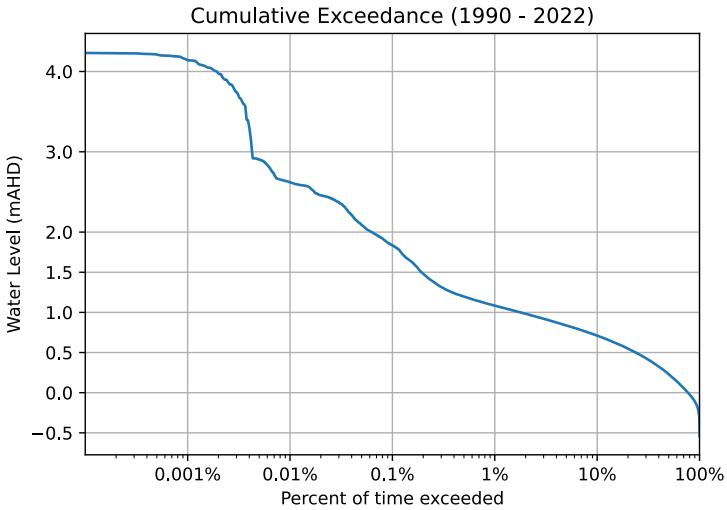
MHL2971
Figure
A70

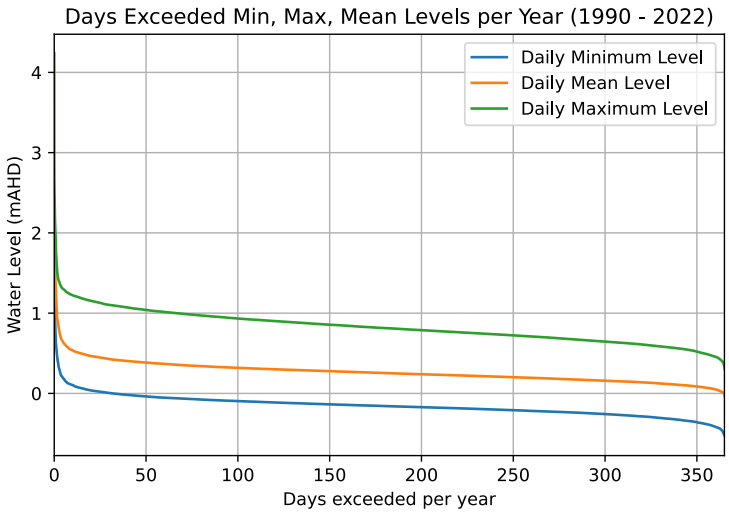
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00001	14	14	0.0012861
4.1	0.00001	11	25	0.0022966
3.9	0.00001	10	35	0.0032153
3.7	0.00001	6	41	0.0037665
3.5	0.00000	3	44	0.0040421
3.3	0.00000	2	46	0.0042258
3.1	0.00001	9	55	0.0050526
2.9	0.00002	22	77	0.0070737
2.7	0.00010	112	189	0.017363
2.5	0.00017	190	379	0.034817
2.3	0.00014	156	535	0.049148
2.1	0.00034	374	909	0.083506
1.9	0.00047	515	1424	0.13082
1.7	0.00060	653	2077	0.19081
1.5	0.00125	1357	3434	0.31547
1.3	0.00579	6304	9738	0.89459
1.1	0.02534	27579	37317	3.4282
0.9	0.07122	77528	114845	10.55
0.7	0.13316	144951	259796	23.866
0.5	0.18775	204379	464175	42.642
0.3	0.22242	242114	706289	64.884
0.1	0.24120	262553	968842	89.004
-0.1	0.10215	111196	1080038	99.219
-0.3	0.00776	8451	1088489	99.995
-0.5	0.00005	54	1088543	100

Station Information	
Station no.	205458
Station name	Upstream Newry Island
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	497967
Northing	6625223

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1990
Highest water level recorded (m)	4.190
Date recorded	31/03/2009
Lowest water level recorded (m)	-0.580
Date recorded	03/11/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205458

NSW GOVERNMENT

Upstream Newry Island (205458)
FREQUENCY DISTRIBUTION ANALYSIS

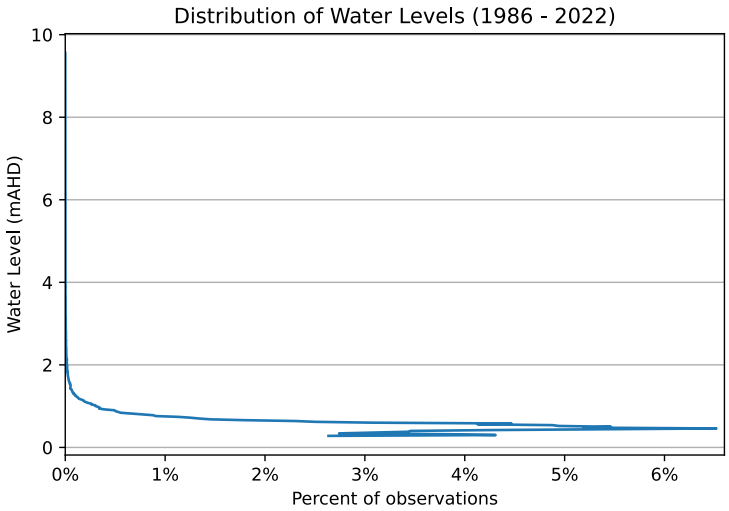
Manly Hydraulics Laboratory

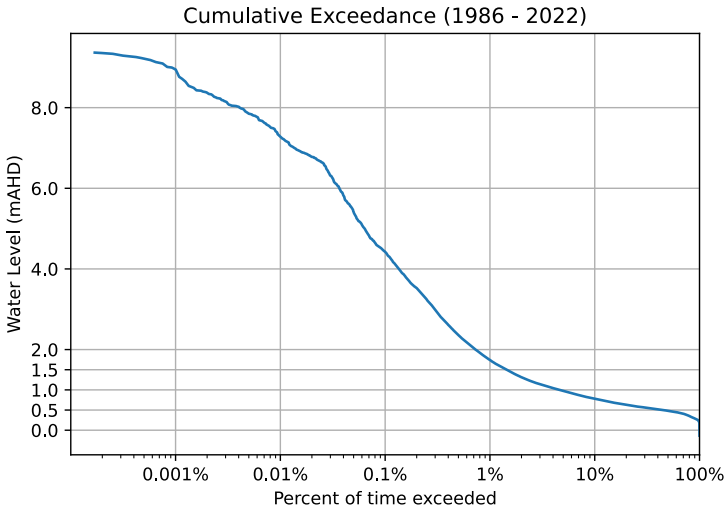
MHL2971
Figure
A71

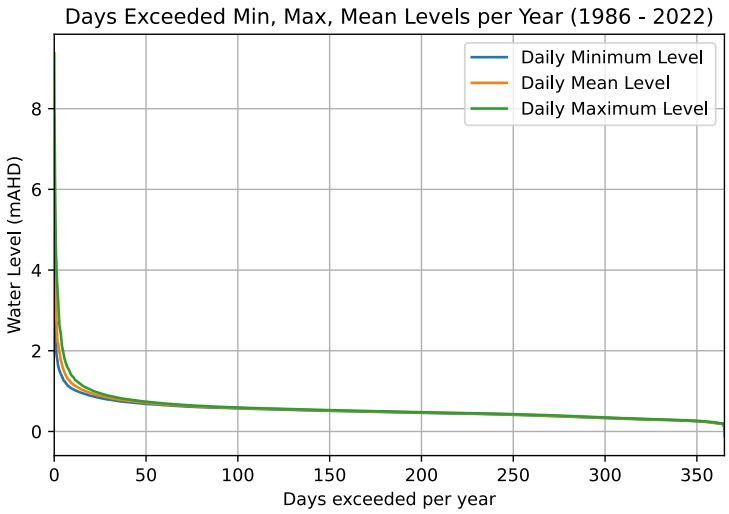
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
9.5	0.00001	7	7	0.00058486
9.2	0.00001	6	13	0.0010862
8.9	0.00000	3	16	0.0013368
8.6	0.00001	12	28	0.0023394
8.3	0.00002	21	49	0.004094
8.0	0.00002	26	75	0.0062663
7.7	0.00003	36	111	0.0092742
7.4	0.00003	34	145	0.012115
7.1	0.00007	88	233	0.019467
6.8	0.00008	96	329	0.027488
6.5	0.00005	57	386	0.032251
6.2	0.00006	77	463	0.038684
5.9	0.00007	82	545	0.045535
5.6	0.00007	84	629	0.052554
5.3	0.00011	134	763	0.06375
5.0	0.00013	157	920	0.076867
4.7	0.00025	300	1220	0.10193
4.4	0.00024	293	1513	0.12641
4.1	0.00030	364	1877	0.15683
3.8	0.00047	560	2437	0.20361
3.5	0.00052	618	3055	0.25525
3.2	0.00063	749	3804	0.31783
2.9	0.00086	1025	4829	0.40347
2.6	0.00125	1496	6325	0.52846
2.3	0.00199	2385	8710	0.72773
2.0	0.00325	3891	12601	1.0528
1.7	0.00648	7751	20352	1.7004
1.4	0.01657	19835	40187	3.3577
1.1	0.05721	68470	108657	9.0784
0.8	0.35850	429078	537735	44.928
0.5	0.54146	648062	1185797	99.075
0.2	0.00925	11073	1196870	100
-0.1	0.00000	1	1196871	100

Station Information	
Station no.	205440
Station name	Kooroowi
Datum	Assumed Datum (1985)
MGA zone	56
Easting	482967
Northing	6629647

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1986
Highest water level recorded (m)	9.570
Date recorded	31/03/2009
Lowest water level recorded (m)	0.260
Date recorded	05/10/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205440

NSW GOVERNMENT

Kooroowi (205440)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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NSW GOVERNMENT

STATION LOCATIONS
NAMBUCCA RIVER REGION

Manly Hydraulics Laboratory

MHL2971
Figure
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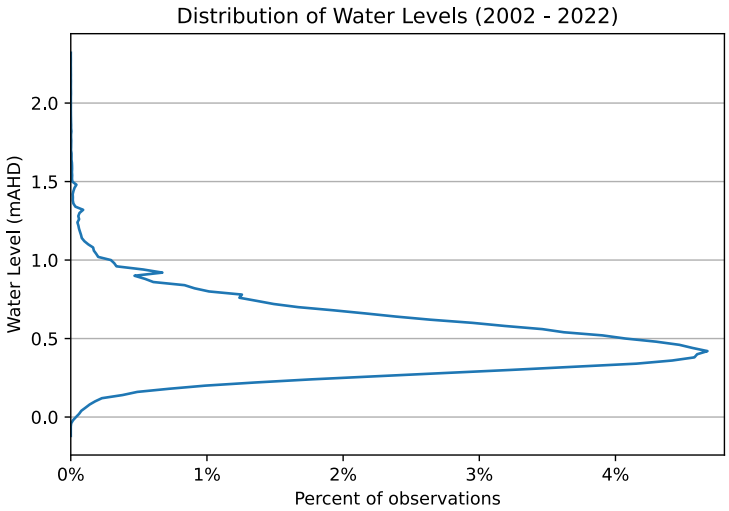
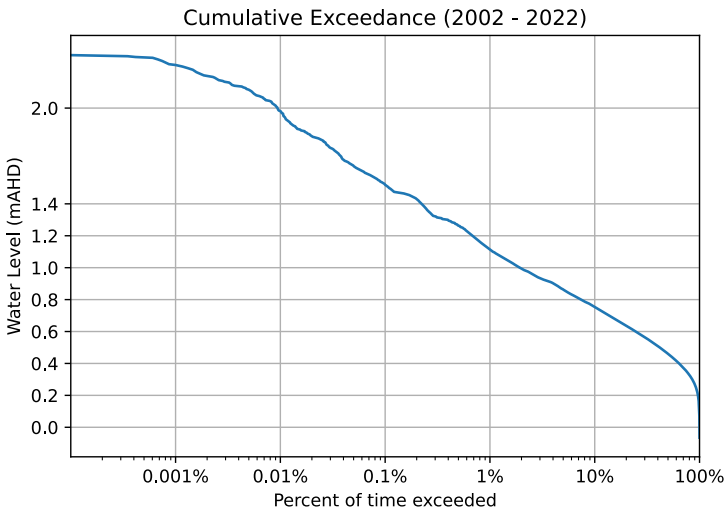
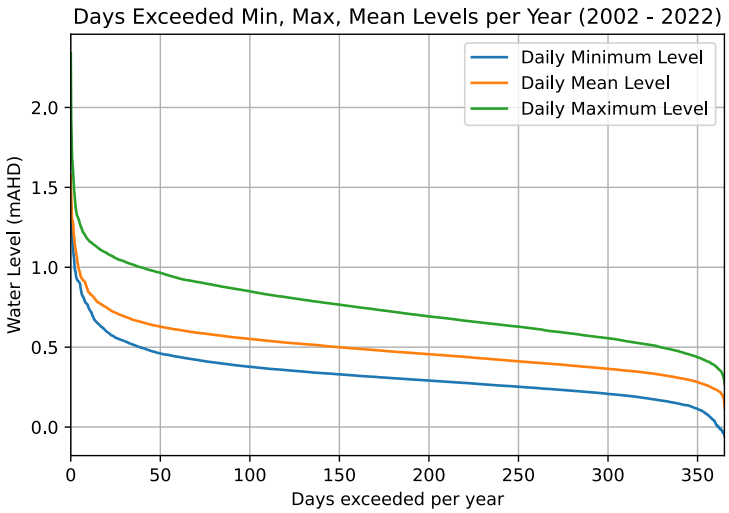
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00001	10	10	0.0014495
2.2	0.00003	23	33	0.0047833
2.1	0.00004	27	60	0.008697
2.0	0.00003	23	83	0.012031
1.9	0.00012	84	167	0.024207
1.8	0.00013	87	254	0.036817
1.7	0.00025	175	429	0.062183
1.6	0.00046	316	745	0.10799
1.5	0.00114	785	1530	0.22177
1.4	0.00175	1204	2734	0.39629
1.3	0.00285	1967	4701	0.68141
1.2	0.00384	2652	7353	1.0658
1.1	0.00850	5861	13214	1.9154
1.0	0.02152	14849	28063	4.0677
0.9	0.03364	23211	51274	7.4321
0.8	0.06366	43916	95190	13.798
0.7	0.10789	74432	169622	24.587
0.6	0.17127	118156	287778	41.713
0.5	0.22082	152346	440124	63.796
0.4	0.21440	147911	588035	85.235
0.3	0.11334	78194	666229	96.57
0.2	0.02806	19357	685586	99.375
0.1	0.00566	3902	689488	99.941
0.0	0.00058	402	689890	99.999

Station Information	
Station no.	205485
Station name	Deep Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	500253
Northing	6613431

Summary Statistics	
Time interval (mins)	15
Start of record	23/04/2002
Highest water level recorded (m)	2.330
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.140
Date recorded	23/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205485

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Deep Creek (205485)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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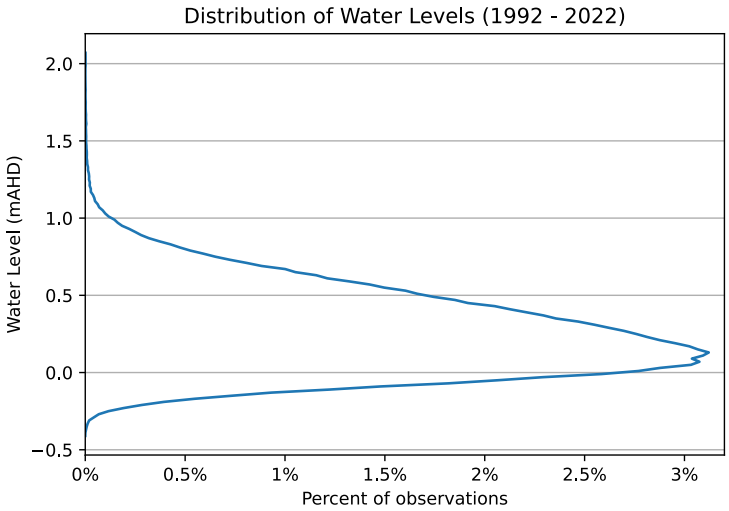
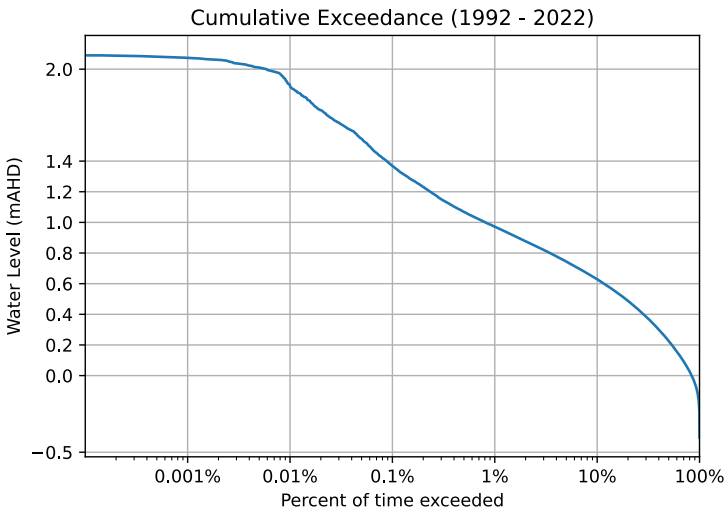
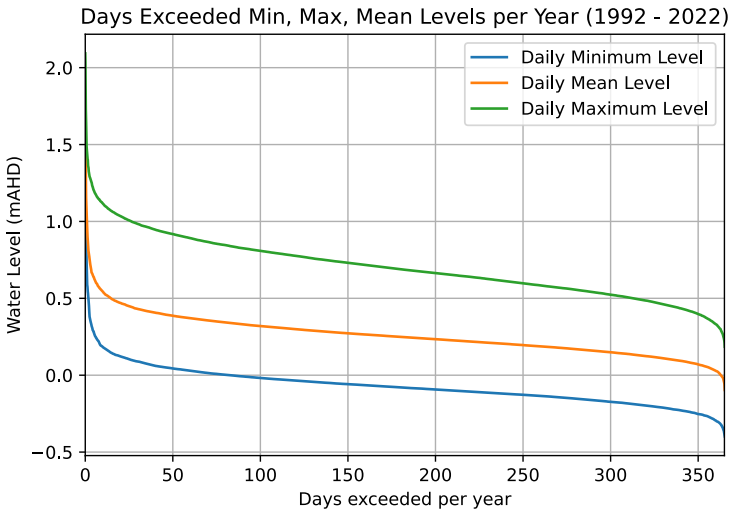
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00006	61	61	0.0059204
2.0	0.00004	42	103	0.0099967
1.9	0.00005	50	153	0.014849
1.8	0.00008	84	237	0.023002
1.7	0.00017	175	412	0.039987
1.6	0.00019	194	606	0.058815
1.5	0.00030	304	910	0.08832
1.4	0.00051	524	1434	0.13918
1.3	0.00097	997	2431	0.23594
1.2	0.00174	1789	4220	0.40957
1.1	0.00402	4141	8361	0.81148
1.0	0.00891	9179	17540	1.7023
0.9	0.01757	18100	35640	3.459
0.8	0.03126	32213	67853	6.5855
0.7	0.05103	52578	120431	11.688
0.6	0.07283	75043	195474	18.972
0.5	0.09448	97345	292819	28.42
0.4	0.11665	120185	413004	40.084
0.3	0.13602	140144	553148	53.686
0.2	0.15155	156144	709292	68.84
0.1	0.15023	154789	864081	83.863
0.0	0.10860	111900	975981	94.724
-0.1	0.04348	44796	1020777	99.071
-0.2	0.00867	8937	1029714	99.939
-0.3	0.00061	630	1030344	100

Station Information	
Station no.	205466
Station name	Stuarts Island Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	499519
Northing	6608564

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1992
Highest water level recorded (m)	2.089
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.430
Date recorded	03/11/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205466

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Stuarts Island Downstream (205466)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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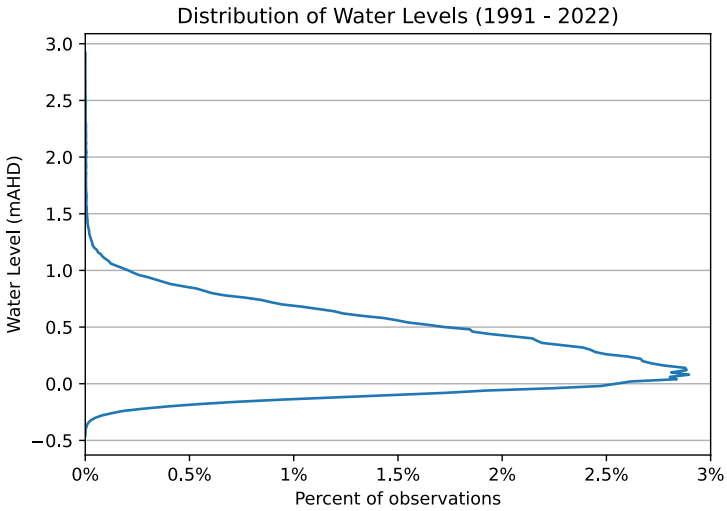
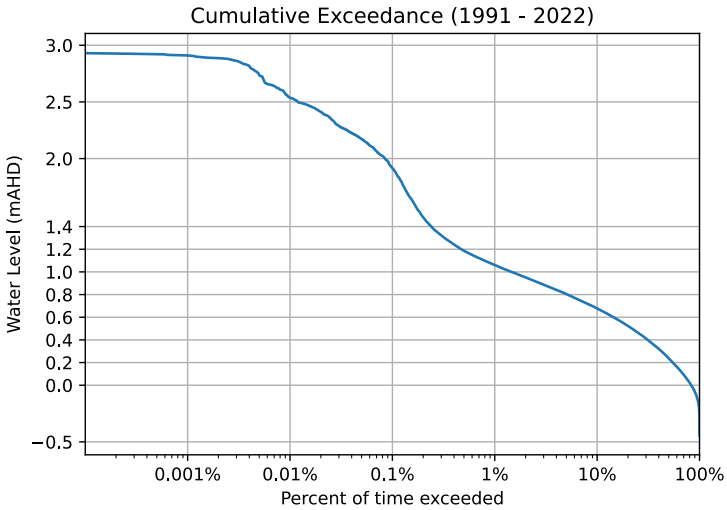
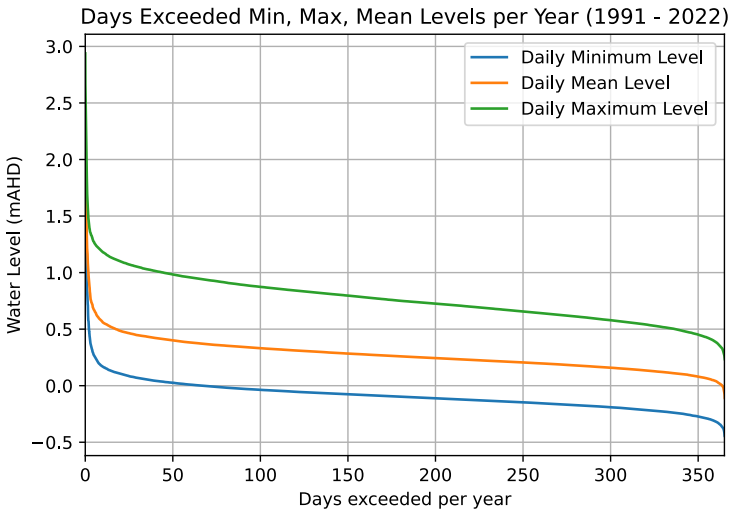
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.9	0.00003	31	31	0.0028946
2.8	0.00001	15	46	0.0042953
2.7	0.00003	33	79	0.0073766
2.6	0.00003	36	115	0.010738
2.5	0.00009	96	211	0.019702
2.4	0.00008	85	296	0.027639
2.3	0.00017	178	474	0.04426
2.2	0.00019	205	679	0.063402
2.1	0.00020	217	896	0.083664
2.0	0.00019	202	1098	0.10253
1.9	0.00018	193	1291	0.12055
1.8	0.00017	185	1476	0.13782
1.7	0.00025	266	1742	0.16266
1.6	0.00029	311	2053	0.1917
1.5	0.00047	505	2558	0.23885
1.4	0.00082	878	3436	0.32084
1.3	0.00148	1589	5025	0.46921
1.2	0.00321	3434	8459	0.78986
1.1	0.00663	7104	15563	1.4532
1.0	0.01331	14258	29821	2.7845
0.9	0.02354	25213	55034	5.1388
0.8	0.03773	40412	95446	8.9123
0.7	0.05528	59201	154647	14.44
0.6	0.07445	79732	234379	21.885
0.5	0.09405	100721	335100	31.29
0.4	0.11177	119698	454798	42.467
0.3	0.12634	135305	590103	55.101
0.2	0.13932	149199	739302	69.033
0.1	0.13967	149576	888878	82.999
0.0	0.10915	116891	1005769	93.914
-0.1	0.04908	52562	1058331	98.822
-0.2	0.01065	11406	1069737	99.887
-0.3	0.00108	1157	1070894	99.995
-0.4	0.00004	40	1070934	99.999

Station Information	
Station no.	205416
Station name	Macksville
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	492382
Northing	6602967

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1991
Highest water level recorded (m)	2.935
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.481
Date recorded	18/08/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205416

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Macksville (205416)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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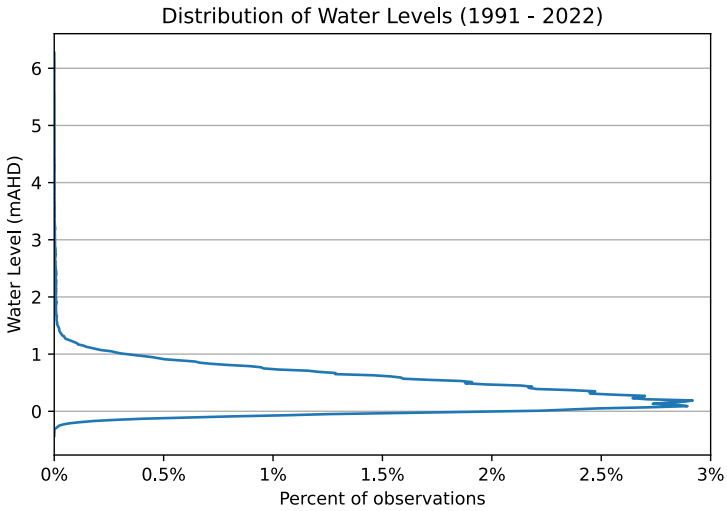
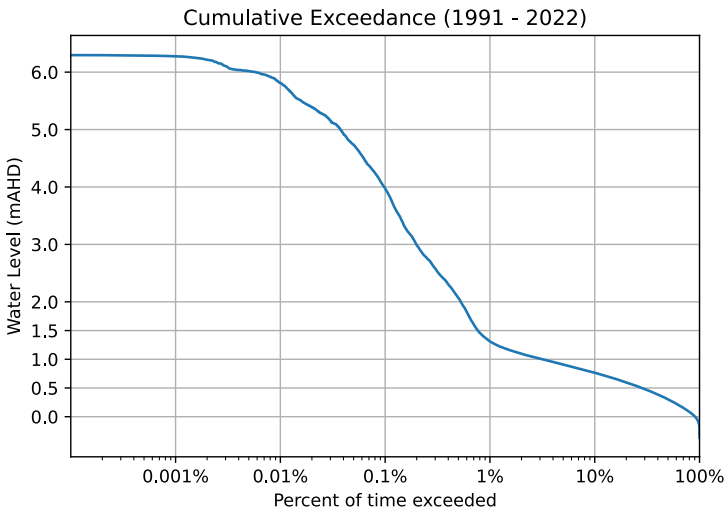
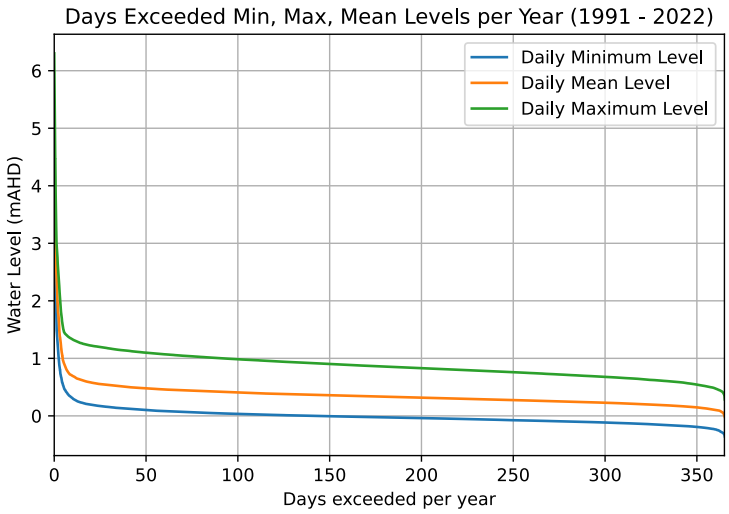
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.4	0.00002	24	24	0.0022657
6.2	0.00004	38	62	0.005853
6.0	0.00004	47	109	0.01029
5.8	0.00003	33	142	0.013405
5.6	0.00006	64	206	0.019447
5.4	0.00009	96	302	0.02851
5.2	0.00009	95	397	0.037478
5.0	0.00008	86	483	0.045597
4.8	0.00012	124	607	0.057303
4.6	0.00010	109	716	0.067593
4.4	0.00016	166	882	0.083264
4.2	0.00015	160	1042	0.098369
4.0	0.00014	151	1193	0.11262
3.8	0.00014	149	1342	0.12669
3.6	0.00019	199	1541	0.14548
3.4	0.00023	244	1785	0.16851
3.2	0.00030	322	2107	0.19891
3.0	0.00040	423	2530	0.23884
2.8	0.00055	587	3117	0.29426
2.6	0.00069	728	3845	0.36298
2.4	0.00083	878	4723	0.44587
2.2	0.00082	870	5593	0.528
2.0	0.00085	896	6489	0.61259
1.8	0.00093	984	7473	0.70548
1.6	0.00159	1687	9160	0.86474
1.4	0.00473	5013	14173	1.338
1.2	0.01804	19105	33278	3.1416
1.0	0.05310	56246	89524	8.4514
0.8	0.11387	120624	210148	19.839
0.6	0.18682	197898	408046	38.521
0.4	0.24959	264384	672430	63.48
0.2	0.27173	287834	960264	90.653
0.0	0.09129	96706	1056970	99.782
-0.2	0.00218	2308	1059278	100

Station Information	
Station no.	205414
Station name	Utungun
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	485800
Northing	6600344

Summary Statistics	
Time interval (mins)	15
Start of record	28/10/1991
Highest water level recorded (m)	6.294
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.450
Date recorded	16/05/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205414

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Utungun (205414)
FREQUENCY DISTRIBUTION ANALYSIS

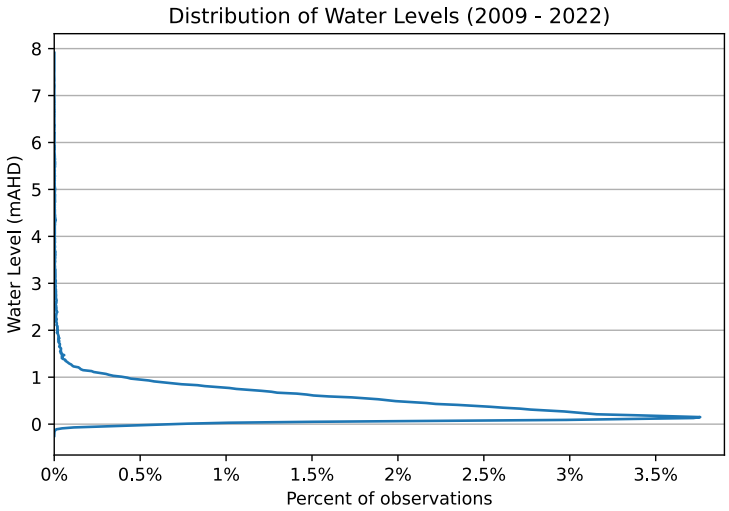
Manly Hydraulics Laboratory

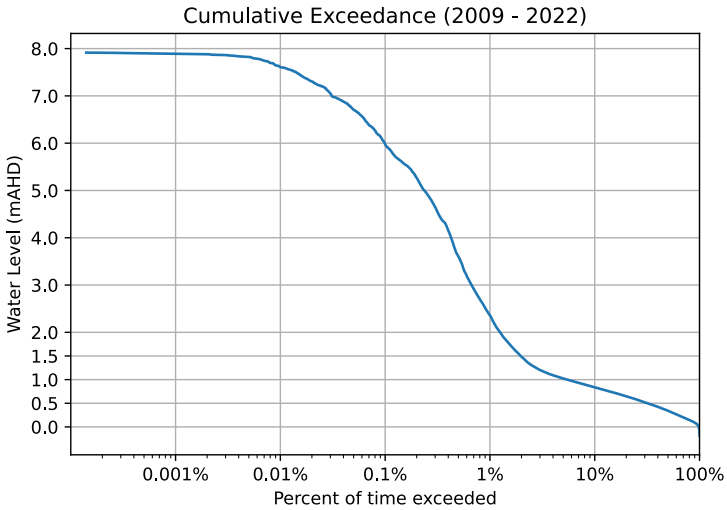
MHL2971
Figure
A77

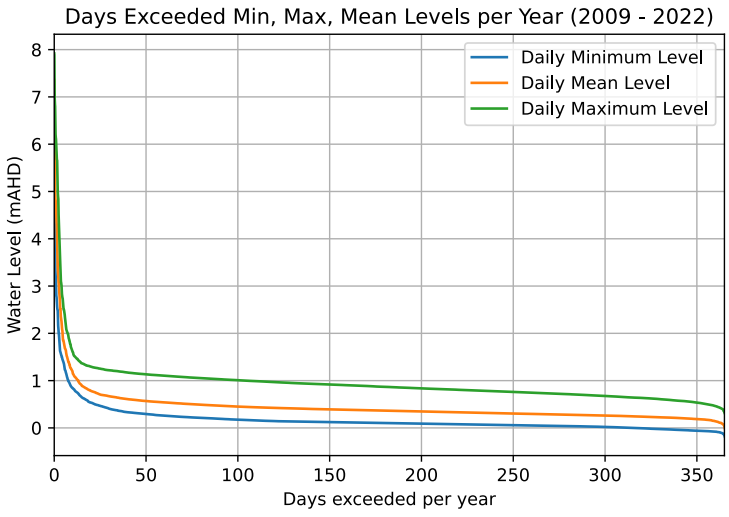
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
7.9	0.00010	43	43	0.0096896
7.6	0.00010	44	87	0.019604
7.3	0.00011	48	135	0.030421
7.0	0.00020	87	222	0.050025
6.7	0.00018	82	304	0.068503
6.4	0.00024	107	411	0.092614
6.1	0.00023	103	514	0.11582
5.8	0.00050	221	735	0.16562
5.5	0.00042	187	922	0.20776
5.2	0.00047	207	1129	0.25441
4.9	0.00053	233	1362	0.30691
4.6	0.00069	306	1668	0.37587
4.3	0.00050	220	1888	0.42544
4.0	0.00048	214	2102	0.47366
3.7	0.00075	333	2435	0.5487
3.4	0.00079	352	2787	0.62802
3.1	0.00123	547	3334	0.75128
2.8	0.00157	695	4029	0.90789
2.5	0.00185	822	4851	1.0931
2.2	0.00249	1105	5956	1.3421
1.9	0.00428	1898	7854	1.7698
1.6	0.00742	3292	11146	2.5116
1.3	0.02925	12980	24126	5.4365
1.0	0.11245	49902	74028	16.681
0.7	0.26121	115919	189947	42.802
0.4	0.45538	202086	392033	88.34
0.1	0.11659	51741	443774	100

Station Information	
Station no.	205425
Station name	Bowraville Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	486768
Northing	6608695

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/2009
Highest water level recorded (m)	7.918
Date recorded	30/03/2022
Lowest water level recorded (m)	-0.273
Date recorded	03/09/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205425

NSW GOVERNMENT

Bowraville Downstream (205425)
FREQUENCY DISTRIBUTION ANALYSIS

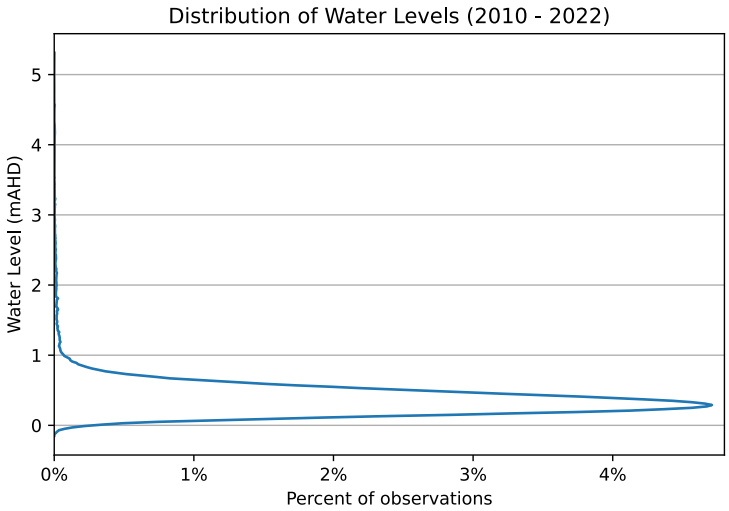
Manly Hydraulics Laboratory

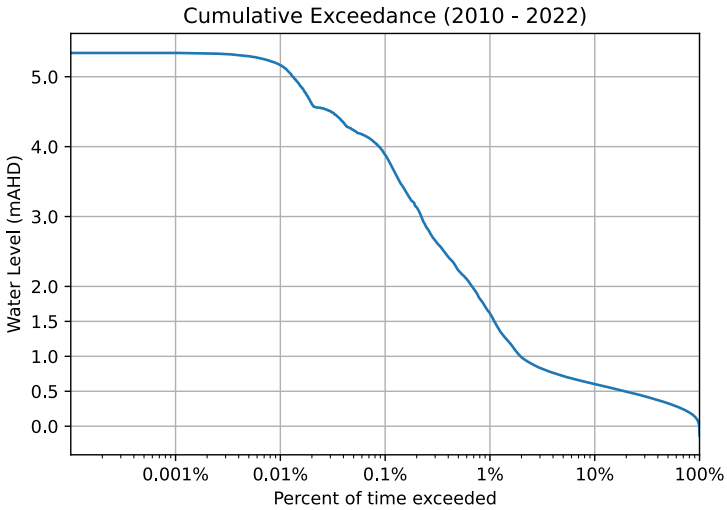
MHL2971
Figure
A78

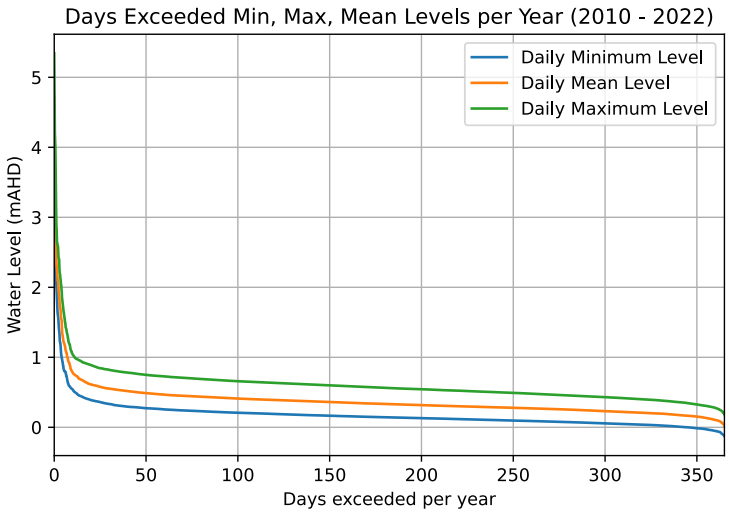
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.3	0.00007	27	27	0.0066287
5.1	0.00004	15	42	0.010311
4.9	0.00003	14	56	0.013748
4.7	0.00012	48	104	0.025533
4.5	0.00012	48	152	0.037317
4.3	0.00032	130	282	0.069233
4.1	0.00024	98	380	0.093293
3.9	0.00019	79	459	0.11269
3.7	0.00020	81	540	0.13257
3.5	0.00028	115	655	0.16081
3.3	0.00041	165	820	0.20132
3.1	0.00031	128	948	0.23274
2.9	0.00047	193	1141	0.28012
2.7	0.00079	323	1464	0.35942
2.5	0.00103	418	1882	0.46204
2.3	0.00137	560	2442	0.59953
2.1	0.00146	595	3037	0.7456
1.9	0.00161	654	3691	0.90616
1.7	0.00191	777	4468	1.0969
1.5	0.00239	974	5442	1.336
1.3	0.00378	1540	6982	1.7141
1.1	0.00722	2942	9924	2.4364
0.9	0.03049	12418	22342	5.4851
0.7	0.14026	57129	79471	19.511
0.5	0.36968	150580	230051	56.479
0.3	0.37966	154645	384696	94.445
0.1	0.05530	22526	407222	99.976
-0.1	0.00019	79	407301	99.995

Station Information	
Station no.	205490
Station name	Warrell Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	491986
Northing	6600076

Summary Statistics	
Time interval (mins)	15
Start of record	01/02/2010
Highest water level recorded (m)	5.331
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.172
Date recorded	03/09/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-205490

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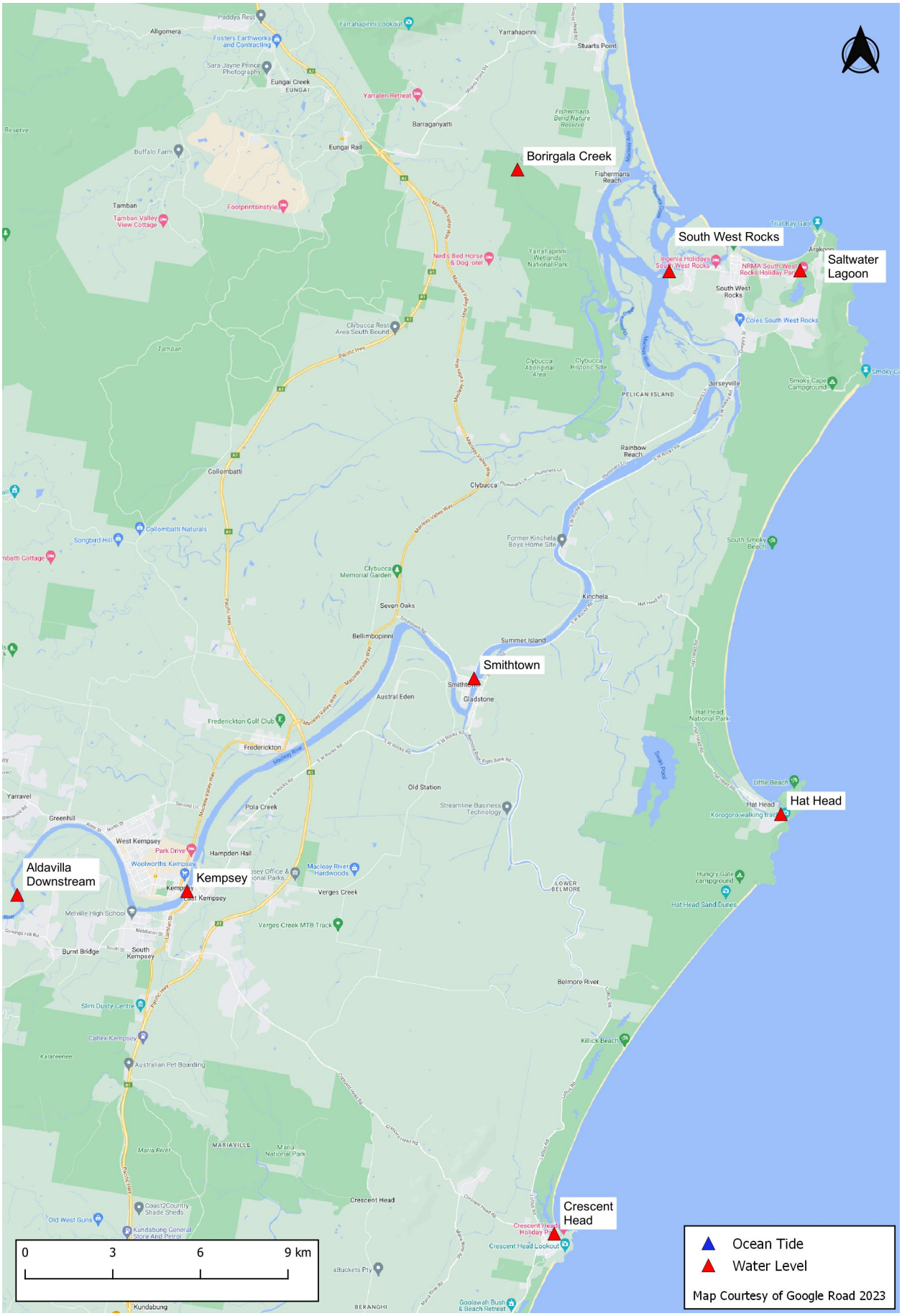
Warrell Creek (205490)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A79



NSW GOVERNMENT

STATION LOCATIONS
MACLEAY RIVER REGION

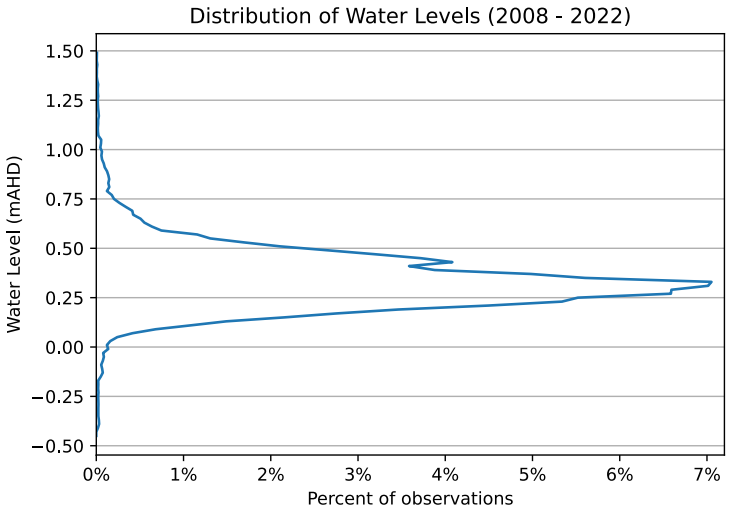
Manly Hydraulics Laboratory

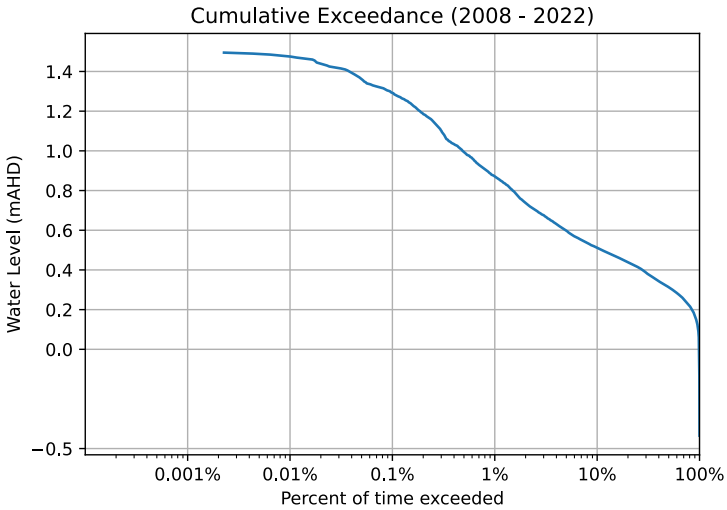
MHL2971
Figure
A80

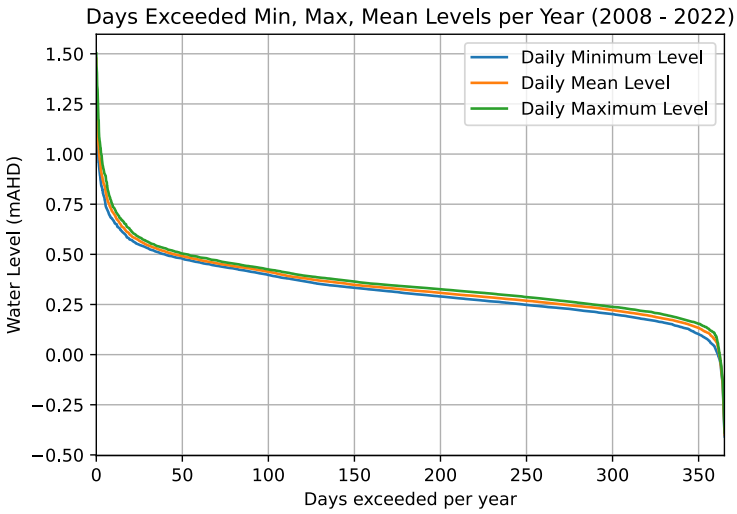
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00038	183	183	0.037938
1.4	0.00057	275	458	0.094949
1.3	0.00091	438	896	0.18575
1.2	0.00116	560	1456	0.30185
1.1	0.00183	881	2337	0.48449
1.0	0.00352	1698	4035	0.8365
0.9	0.00660	3183	7218	1.4964
0.8	0.01026	4948	12166	2.5222
0.7	0.02395	11555	23721	4.9176
0.6	0.06222	30014	53735	11.14
0.5	0.16609	80117	133852	27.749
0.4	0.26736	128967	262819	54.485
0.3	0.29820	143840	406659	84.305
0.2	0.12575	60659	467318	96.88
0.1	0.02123	10242	477560	99.004
0.0	0.00462	2230	479790	99.466
-0.1	0.00255	1229	481019	99.721
-0.2	0.00119	575	481594	99.84
-0.3	0.00122	589	482183	99.962
-0.4	0.00038	183	482366	100

Station Information	
Station no.	206450
Station name	Boringalla Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	496445
Northing	6586064

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/2008
Highest water level recorded (m)	1.496
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.470
Date recorded	12/02/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206450

NSW GOVERNMENT

Boringalla Creek (206450)
FREQUENCY DISTRIBUTION ANALYSIS

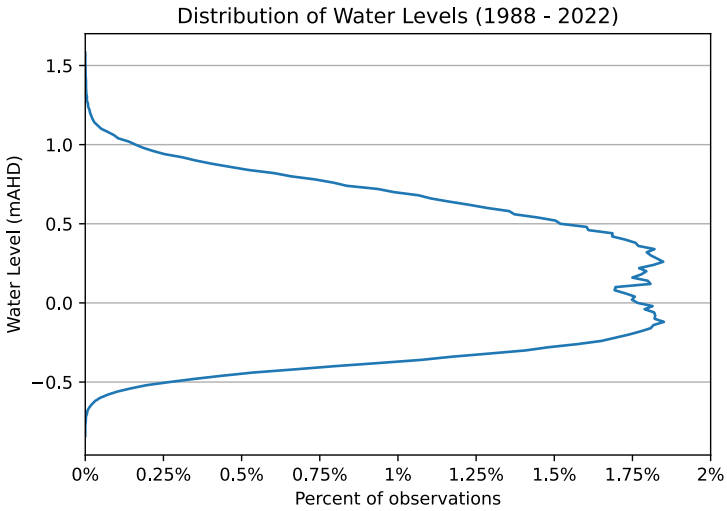
Manly Hydraulics Laboratory

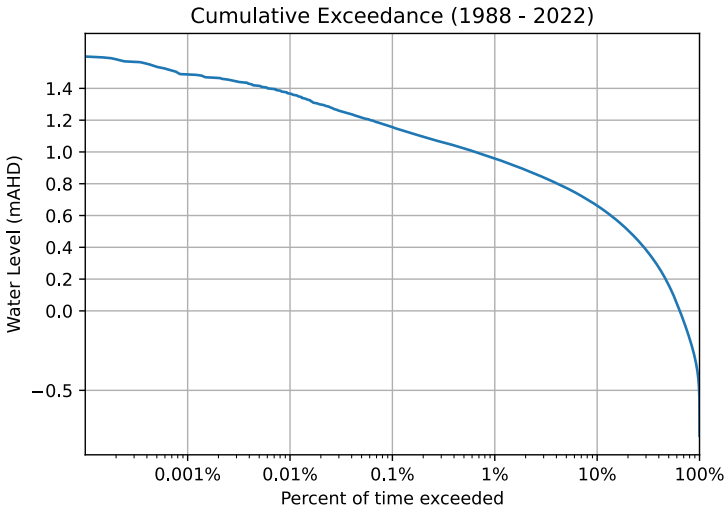
MHL2971
Figure
A81

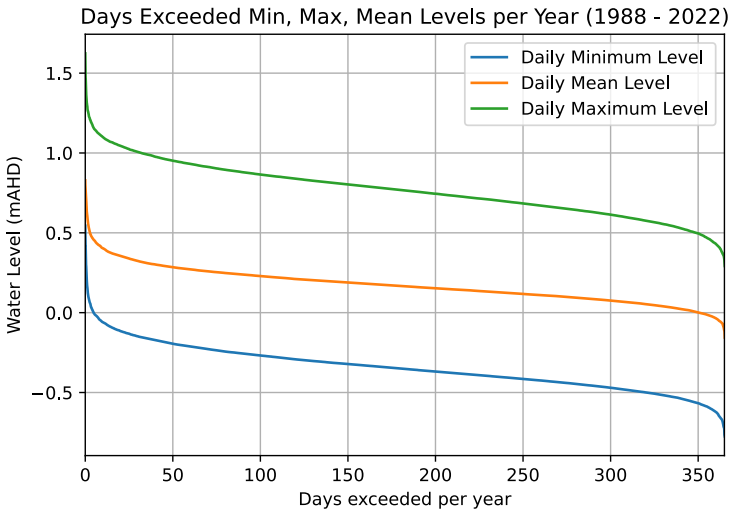
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00001	8	8	0.00067943
1.5	0.00005	61	69	0.0058601
1.4	0.00013	158	227	0.019279
1.3	0.00042	490	717	0.060894
1.2	0.00129	1515	2232	0.18956
1.1	0.00459	5404	7636	0.64851
1.0	0.01127	13268	20904	1.7753
0.9	0.02343	27584	48488	4.118
0.8	0.03957	46595	95083	8.0753
0.7	0.05550	65347	160430	13.625
0.6	0.06962	81978	242408	20.587
0.5	0.08103	95414	337822	28.691
0.4	0.08871	104457	442279	37.562
0.3	0.09075	106849	549128	46.637
0.2	0.08929	105135	654263	55.566
0.1	0.08622	101524	755787	64.188
0.0	0.09012	106114	861901	73.2
-0.1	0.09072	106819	968720	82.272
-0.2	0.08141	95861	1064581	90.413
-0.3	0.05884	69281	1133862	96.297
-0.4	0.02788	32825	1166687	99.085
-0.5	0.00784	9235	1175922	99.869
-0.6	0.00120	1416	1177338	99.99
-0.7	0.00010	121	1177459	100

Station Information	
Station no.	206456
Station name	South West Rocks
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	501638
Northing	6582579

Summary Statistics	
Time interval (mins)	15
Start of record	21/04/1988
Highest water level recorded (m)	1.601
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.860
Date recorded	27/10/1996







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206456

NSW GOVERNMENT

South West Rocks (206456)
FREQUENCY DISTRIBUTION ANALYSIS

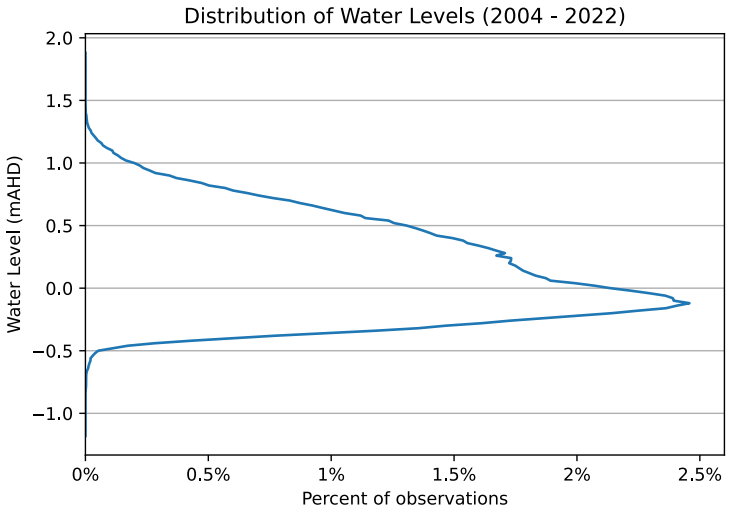
Manly Hydraulics Laboratory

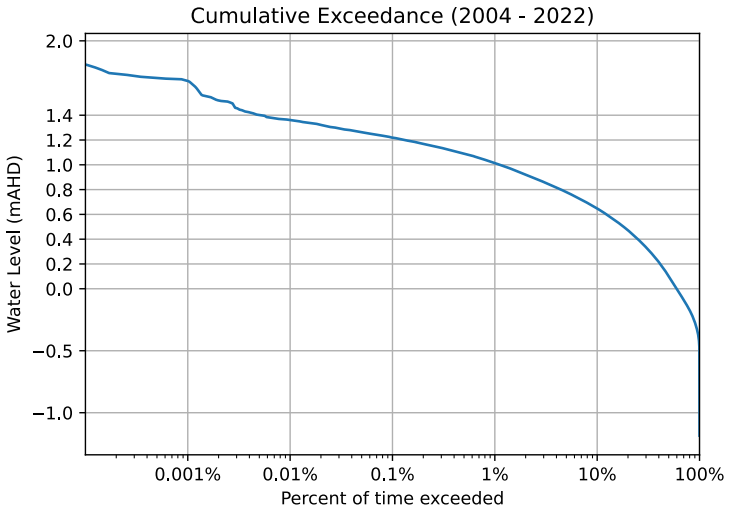
MHL2971
Figure
A82

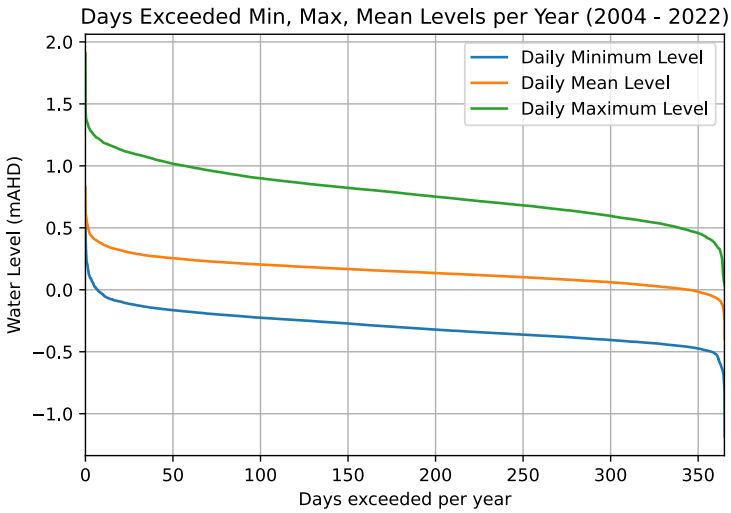
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00000	0	0	0
1.8	0.00000	2	2	0.00034229
1.7	0.00001	5	7	0.001198
1.6	0.00001	8	15	0.0025672
1.5	0.00002	14	29	0.0049633
1.4	0.00023	132	161	0.027555
1.3	0.00104	608	769	0.13161
1.2	0.00315	1843	2612	0.44704
1.1	0.00666	3893	6505	1.1133
1.0	0.01201	7015	13520	2.3139
0.9	0.02113	12349	25869	4.4274
0.8	0.03295	19255	45124	7.7228
0.7	0.04603	26895	72019	12.326
0.6	0.05802	33903	105922	18.128
0.5	0.06855	40054	145976	24.983
0.4	0.07823	45708	191684	32.806
0.3	0.08514	49749	241433	41.32
0.2	0.08824	51558	292991	50.144
0.1	0.09659	56435	349426	59.803
0.0	0.11398	66597	416023	71.201
-0.1	0.11867	69338	485361	83.068
-0.2	0.09347	54614	539975	92.415
-0.3	0.05752	33609	573584	98.167
-0.4	0.01601	9356	582940	99.768
-0.5	0.00162	945	583885	99.93
-0.6	0.00051	298	584183	99.981
-0.7	0.00013	77	584260	99.994
-0.8	0.00003	19	584279	99.997
-0.9	0.00001	4	584283	99.998
-1.0	0.00001	7	584290	99.999
-1.1	0.00001	3	584293	100

Station Information	
Station no.	206465
Station name	Hat Head
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	505462
Northing	6563993

Summary Statistics	
Time interval (mins)	15
Start of record	15/01/2004
Highest water level recorded (m)	1.892
Date recorded	05/06/2016
Lowest water level recorded (m)	-1.200
Date recorded	05/11/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206465

NSW GOVERNMENT

Hat Head (206465)
FREQUENCY DISTRIBUTION ANALYSIS

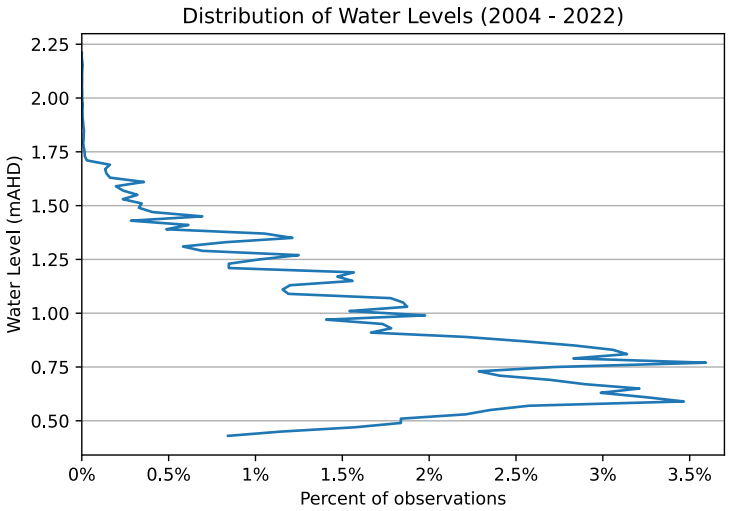
Manly Hydraulics Laboratory

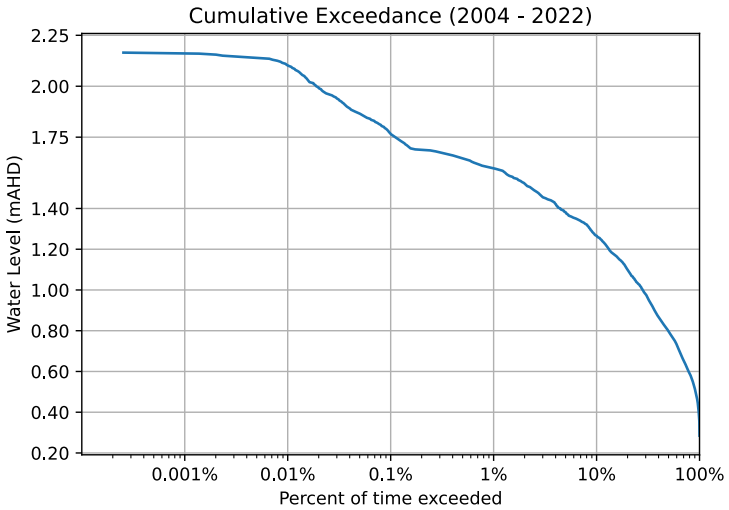
MHL2971
Figure
A83

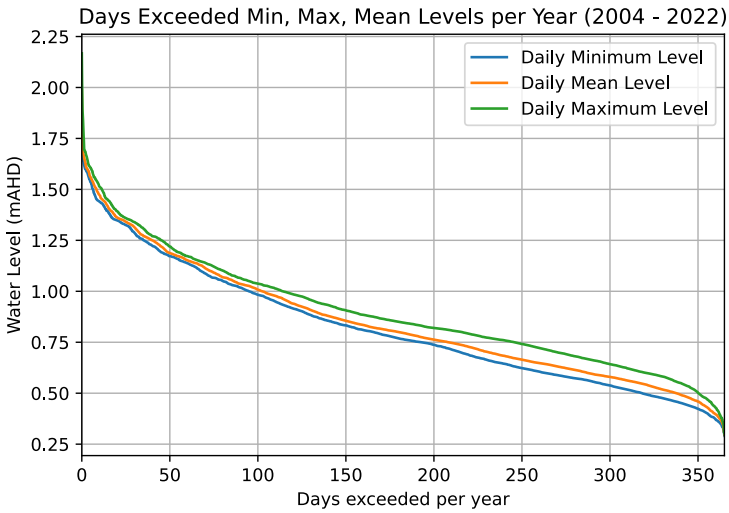
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00010	64	64	0.010276
2.1	0.00009	54	118	0.018947
2.0	0.00019	116	234	0.037573
1.9	0.00049	303	537	0.086225
1.8	0.00066	410	947	0.15206
1.7	0.00795	4952	5899	0.94719
1.6	0.01380	8593	14492	2.327
1.5	0.02133	13283	27775	4.4598
1.4	0.04193	26116	53891	8.6532
1.3	0.04534	28235	82126	13.187
1.2	0.06779	42218	124344	19.966
1.1	0.08046	50111	174455	28.012
1.0	0.08530	53121	227576	36.542
0.9	0.13186	82121	309697	49.728
0.8	0.14006	87228	396925	63.734
0.7	0.14521	90432	487357	78.254
0.6	0.13277	82686	570043	91.531
0.5	0.06685	41632	611675	98.216
0.4	0.01738	10824	622499	99.954
0.3	0.00046	288	622787	100

Station Information	
Station no.	206460
Station name	Saltwater Lagoon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	506119
Northing	6582610

Summary Statistics	
Time interval (mins)	15
Start of record	21/07/2004
Highest water level recorded (m)	2.228
Date recorded	03/08/2016
Lowest water level recorded (m)	0.409
Date recorded	23/01/2021







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206460

NSW GOVERNMENT

Saltwater Lagoon (206460)
FREQUENCY DISTRIBUTION ANALYSIS

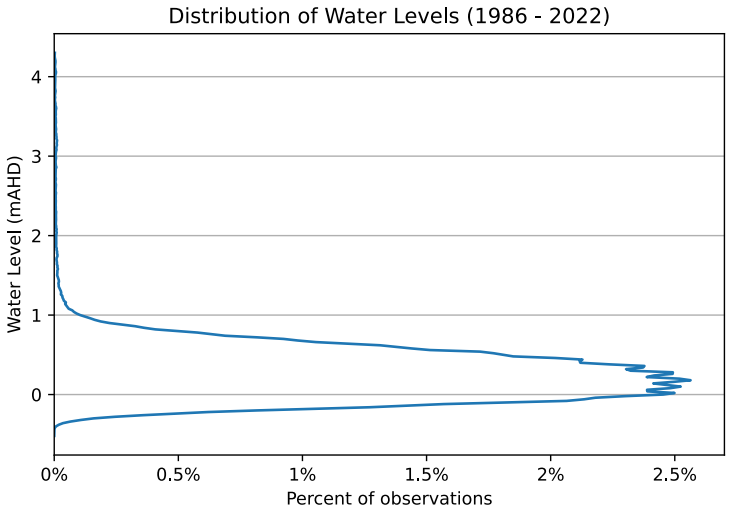
Manly Hydraulics Laboratory

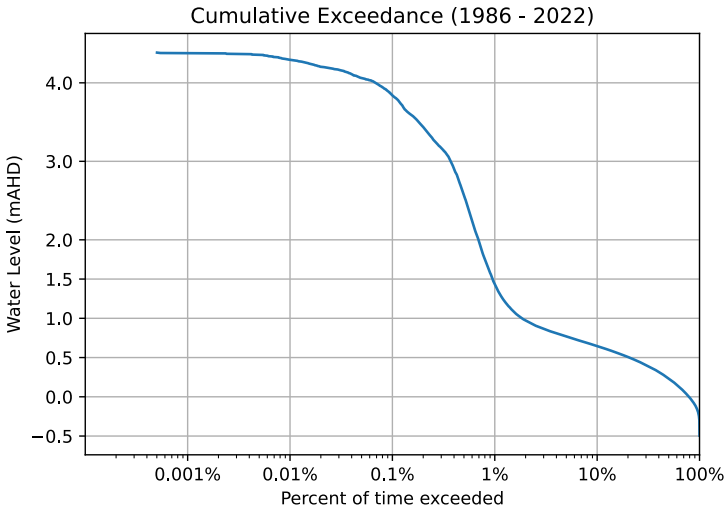
MHL2971
Figure
A84

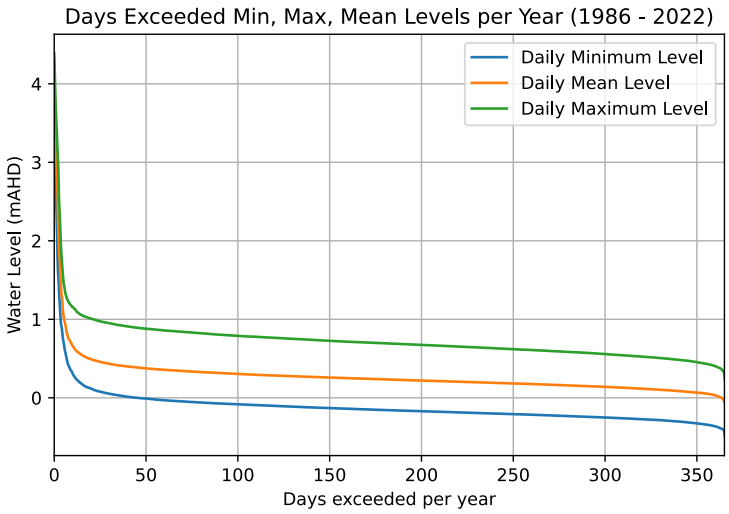
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.5	0.00009	117	117	0.0094337
4.3	0.00032	397	514	0.041444
4.1	0.00048	594	1108	0.089338
3.9	0.00037	461	1569	0.12651
3.7	0.00055	685	2254	0.18174
3.5	0.00062	773	3027	0.24407
3.3	0.00091	1133	4160	0.33542
3.1	0.00066	818	4978	0.40137
2.9	0.00060	741	5719	0.46112
2.7	0.00060	743	6462	0.52103
2.5	0.00060	738	7200	0.58053
2.3	0.00069	858	8058	0.64971
2.1	0.00082	1022	9080	0.73212
1.9	0.00101	1253	10333	0.83315
1.7	0.00119	1477	11810	0.95224
1.5	0.00176	2187	13997	1.1286
1.3	0.00363	4504	18501	1.4917
1.1	0.01077	13352	31853	2.5683
0.9	0.04803	59565	91418	7.371
0.7	0.13274	164631	256049	20.645
0.5	0.21332	264562	520611	41.977
0.3	0.24566	304675	825286	66.543
0.1	0.23415	290396	1115682	89.957
-0.1	0.09648	119653	1235335	99.605
-0.3	0.00395	4902	1240237	100

Station Information	
Station no.	206406
Station name	Smithtown
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	494960
Northing	6568643

Summary Statistics	
Time interval (mins)	15
Start of record	21/02/1986
Highest water level recorded (m)	4.320
Date recorded	10/03/2001
Lowest water level recorded (m)	-0.535
Date recorded	29/10/2008







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206406

NSW GOVERNMENT

Smithtown (206406)
FREQUENCY DISTRIBUTION ANALYSIS

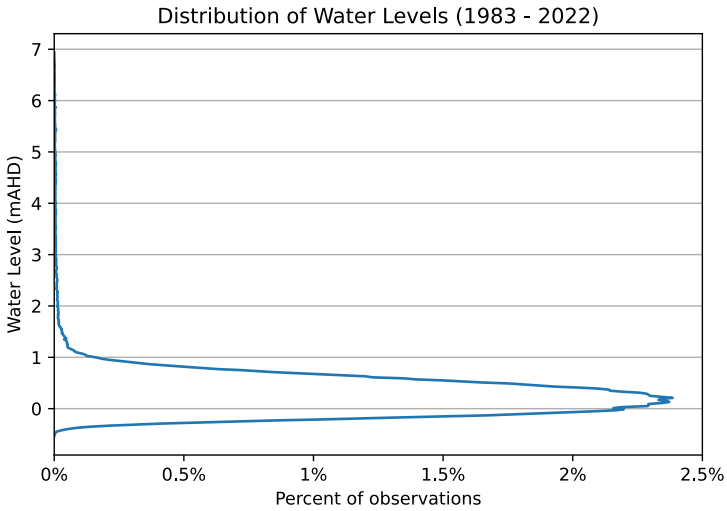
Manly Hydraulics Laboratory

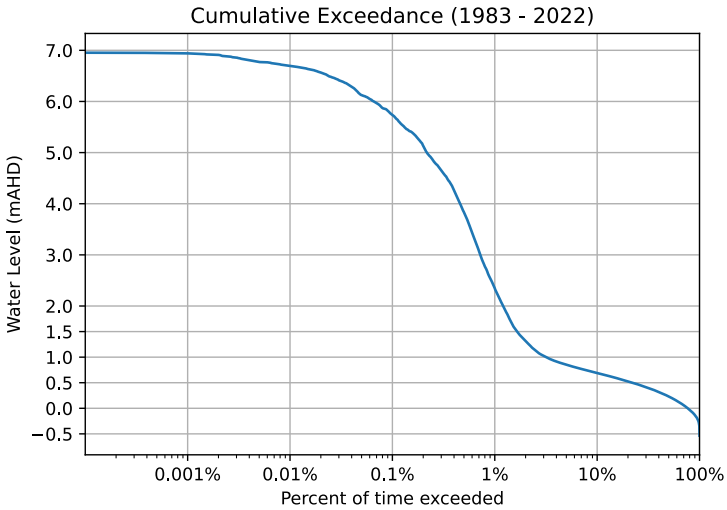
MHL2971
Figure
A85

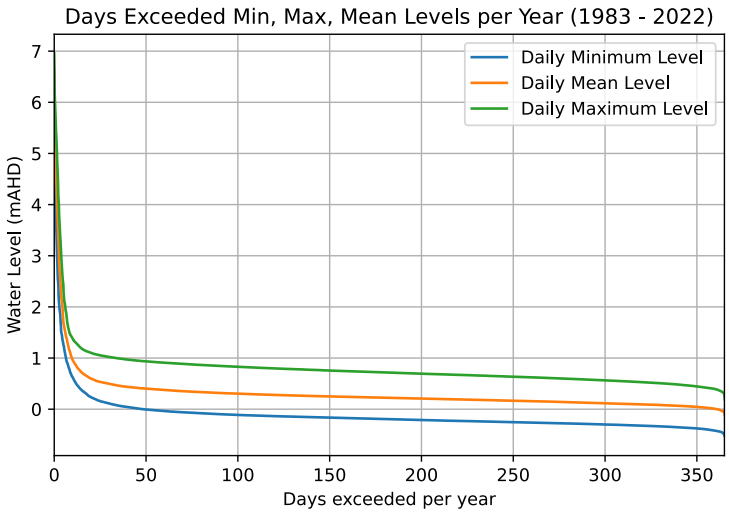
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
7.0	0.00009	124	124	0.0094381
6.7	0.00022	288	412	0.031359
6.4	0.00023	299	711	0.054117
6.1	0.00038	499	1210	0.092097
5.8	0.00039	509	1719	0.13084
5.5	0.00060	783	2502	0.19044
5.2	0.00049	644	3146	0.23945
4.9	0.00075	983	4129	0.31427
4.6	0.00079	1034	5163	0.39297
4.3	0.00066	864	6027	0.45874
4.0	0.00077	1007	7034	0.53538
3.7	0.00074	970	8004	0.60921
3.4	0.00083	1097	9101	0.69271
3.1	0.00098	1289	10390	0.79082
2.8	0.00131	1722	12112	0.92188
2.5	0.00157	2067	14179	1.0792
2.2	0.00198	2604	16783	1.2774
1.9	0.00244	3208	19991	1.5216
1.6	0.00508	6676	26667	2.0297
1.3	0.01128	14826	41493	3.1582
1.0	0.06394	84011	125504	9.5525
0.7	0.21792	286310	411814	31.345
0.4	0.34048	447330	859144	65.392
0.1	0.29605	388963	1248107	94.998
-0.2	0.05000	65695	1313802	99.998
-0.5	0.00002	28	1313830	100

Station Information	
Station no.	206402
Station name	Kempsey
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	485137
Northing	6561355

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1983
Highest water level recorded (m)	6.944
Date recorded	24/02/2013
Lowest water level recorded (m)	-0.550
Date recorded	29/10/2008







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206402

NSW GOVERNMENT

Kempsey (206402)
FREQUENCY DISTRIBUTION ANALYSIS

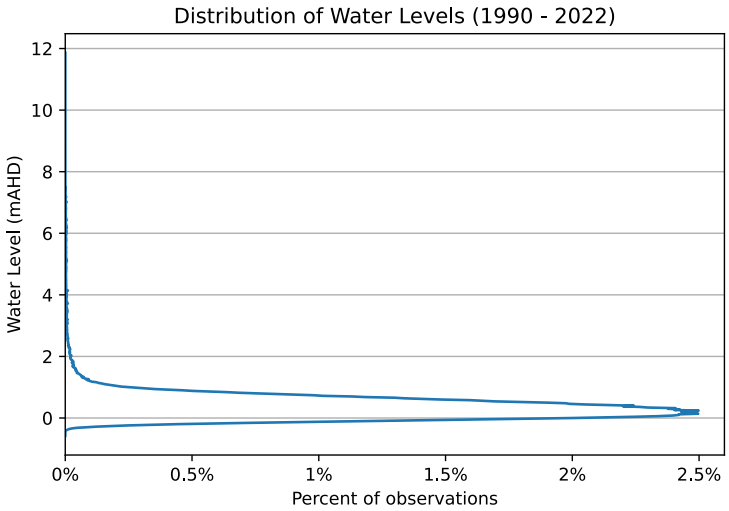
Manly Hydraulics Laboratory

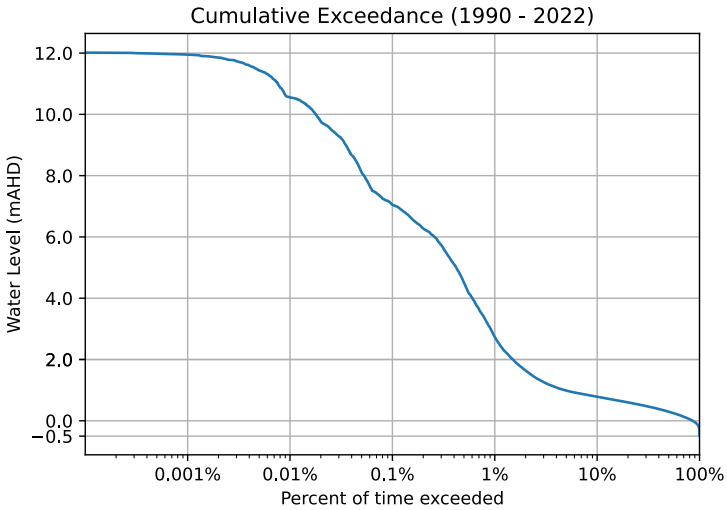
MHL2971
Figure
A86

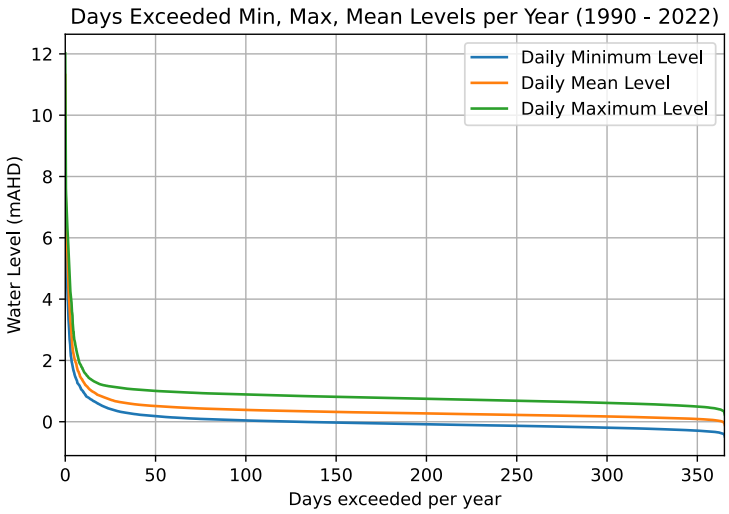
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.3	0.00001	15	15	0.0013914
11.9	0.00003	35	50	0.0046379
11.5	0.00003	29	79	0.007328
11.1	0.00001	16	95	0.0088121
10.7	0.00006	63	158	0.014656
10.3	0.00004	45	203	0.01883
9.9	0.00006	70	273	0.025323
9.5	0.00008	91	364	0.033764
9.1	0.00005	59	423	0.039237
8.7	0.00008	86	509	0.047214
8.3	0.00008	84	593	0.055006
7.9	0.00009	93	686	0.063633
7.5	0.00033	356	1042	0.096655
7.1	0.00047	506	1548	0.14359
6.7	0.00052	557	2105	0.19526
6.3	0.00079	854	2959	0.27447
5.9	0.00059	638	3597	0.33365
5.5	0.00066	711	4308	0.39961
5.1	0.00072	774	5082	0.4714
4.7	0.00062	669	5751	0.53346
4.3	0.00097	1049	6800	0.63076
3.9	0.00112	1210	8010	0.743
3.5	0.00131	1417	9427	0.87444
3.1	0.00141	1516	10943	1.0151
2.7	0.00213	2299	13242	1.2283
2.3	0.00378	4072	17314	1.606
1.9	0.00665	7171	24485	2.2712
1.5	0.01597	17215	41700	3.868
1.1	0.09874	106451	148151	13.742
0.7	0.36018	388292	536443	49.76
0.3	0.44401	478673	1015116	94.161
-0.1	0.05839	62947	1078063	100

Station Information	
Station no.	206459
Station name	Aldavilla Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	479318
Northing	6561231

Summary Statistics	
Time interval (mins)	15
Start of record	21/07/1990
Highest water level recorded (m)	11.870
Date recorded	10/03/2001
Lowest water level recorded (m)	-0.601
Date recorded	22/11/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-206459

NSW GOVERNMENT

Aldavilla Downstream (206459)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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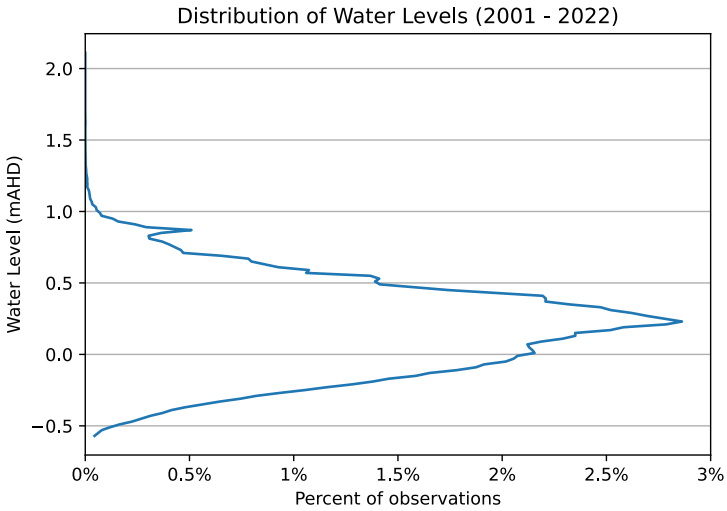
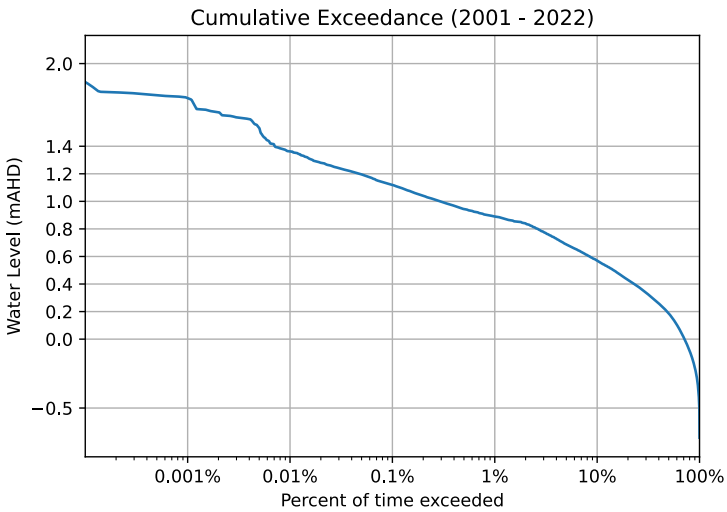
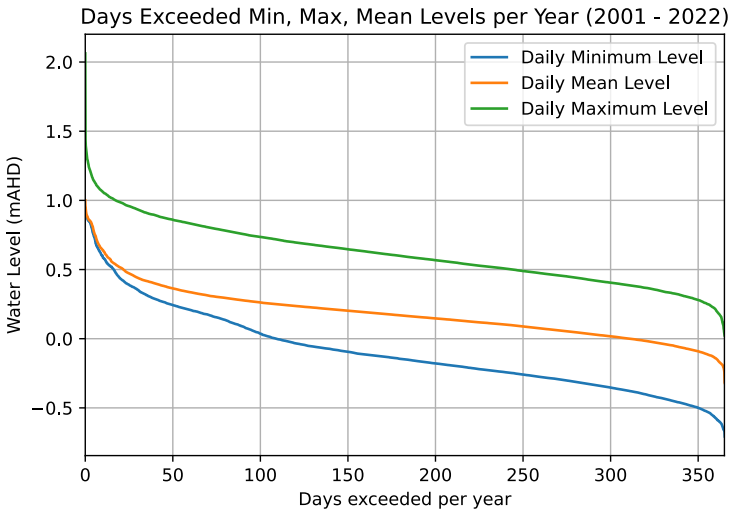
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00000	1	1	0.000136
2.0	0.00000	0	1	0.000136
1.9	0.00000	0	1	0.000136
1.8	0.00001	8	9	0.001224
1.7	0.00003	19	28	0.0038081
1.6	0.00001	10	38	0.0051681
1.5	0.00002	15	53	0.0072081
1.4	0.00010	70	123	0.016728
1.3	0.00031	228	351	0.047737
1.2	0.00071	520	871	0.11846
1.1	0.00175	1285	2156	0.29322
1.0	0.00557	4093	6249	0.84988
0.9	0.01783	13109	19358	2.6327
0.8	0.02032	14942	34300	4.6649
0.7	0.03791	27871	62171	8.4554
0.6	0.06081	44716	106887	14.537
0.5	0.08473	62297	169184	23.009
0.4	0.11564	85028	254212	34.573
0.3	0.13612	100090	354302	48.186
0.2	0.12342	90751	445053	60.528
0.1	0.10813	79504	524557	71.341
0.0	0.10081	74123	598680	81.422
-0.1	0.08115	59671	658351	89.537
-0.2	0.05516	40555	698906	95.053
-0.3	0.03040	22350	721256	98.093
-0.4	0.01464	10768	732024	99.557
-0.5	0.00396	2914	734938	99.953
-0.6	0.00046	341	735279	100
-0.7	0.00000	2	735281	100

Station Information	
Station no.	207452
Station name	Crescent Head Killick Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	497704
Northing	6549628

Summary Statistics	
Time interval (mins)	15
Start of record	11/04/2001
Highest water level recorded (m)	2.118
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.594
Date recorded	27/03/2013







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207452

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Crescent Head Killick Creek (207452)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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STATION LOCATIONS
HASTINGS RIVER REGION

Manly Hydraulics Laboratory

MHL2971
Figure
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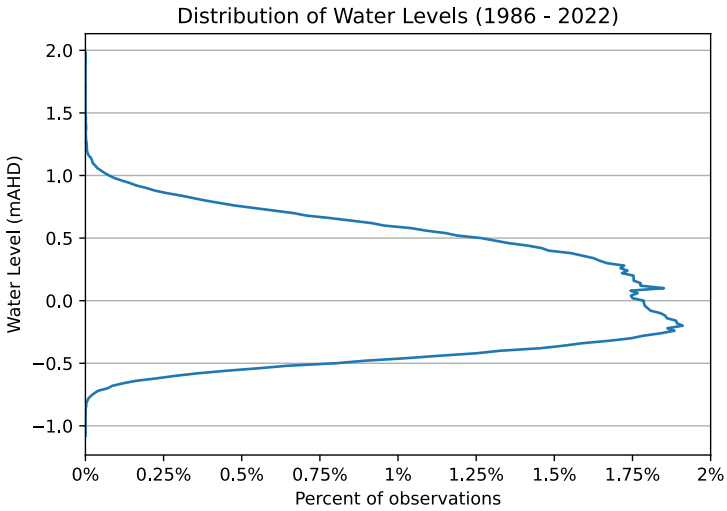
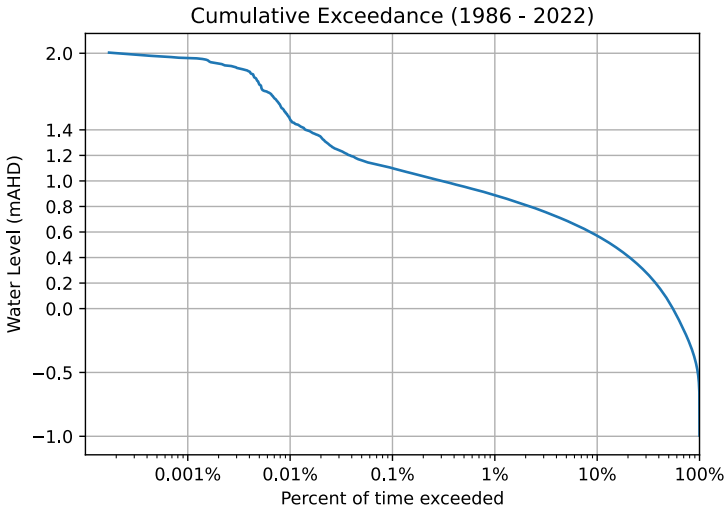
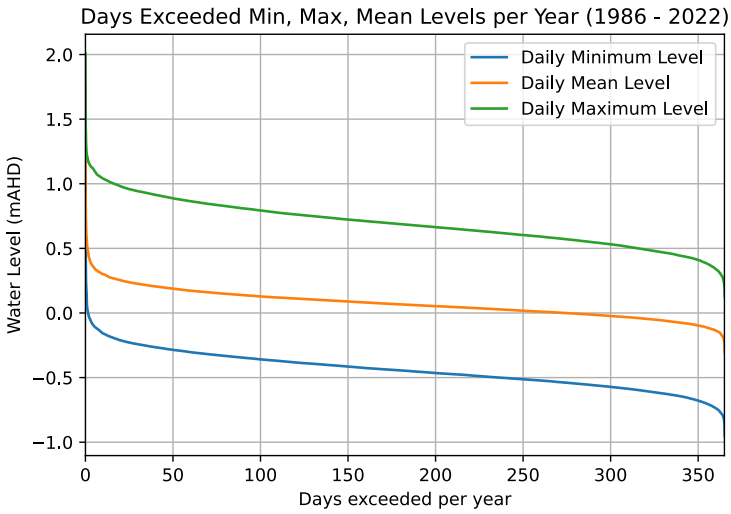
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.0	0.00002	30	30	0.0024667
1.9	0.00002	24	54	0.00444
1.8	0.00001	15	69	0.0056734
1.7	0.00002	25	94	0.0077289
1.6	0.00002	23	117	0.0096201
1.5	0.00004	53	170	0.013978
1.4	0.00009	105	275	0.022611
1.3	0.00016	191	466	0.038316
1.2	0.00062	750	1216	0.099983
1.1	0.00203	2474	3690	0.3034
1.0	0.00589	7165	10855	0.89253
0.9	0.01324	16103	26958	2.2166
0.8	0.02437	29635	56593	4.6532
0.7	0.03919	47667	104260	8.5725
0.6	0.05428	66012	170272	14
0.5	0.06803	82734	253006	20.803
0.4	0.07892	95983	348989	28.695
0.3	0.08554	104030	453019	37.248
0.2	0.08812	107175	560194	46.061
0.1	0.08855	107699	667893	54.916
0.0	0.08969	109078	776971	63.885
-0.1	0.09337	113553	890524	73.221
-0.2	0.09282	112894	1003418	82.504
-0.3	0.07994	97224	1100642	90.498
-0.4	0.05625	68416	1169058	96.123
-0.5	0.02809	34169	1203227	98.933
-0.6	0.00887	10786	1214013	99.82
-0.7	0.00167	2030	1216043	99.986
-0.8	0.00012	152	1216195	99.999
-0.9	0.00001	10	1216205	100

Station Information	
Station no.	207420
Station name	Port Macquarie
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	491554
Northing	6523090

Summary Statistics	
Time interval (mins)	15
Start of record	19/02/1986
Highest water level recorded (m)	2.005
Date recorded	20/03/2021
Lowest water level recorded (m)	-1.100
Date recorded	14/06/1986







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207420

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Port Macquarie (207420)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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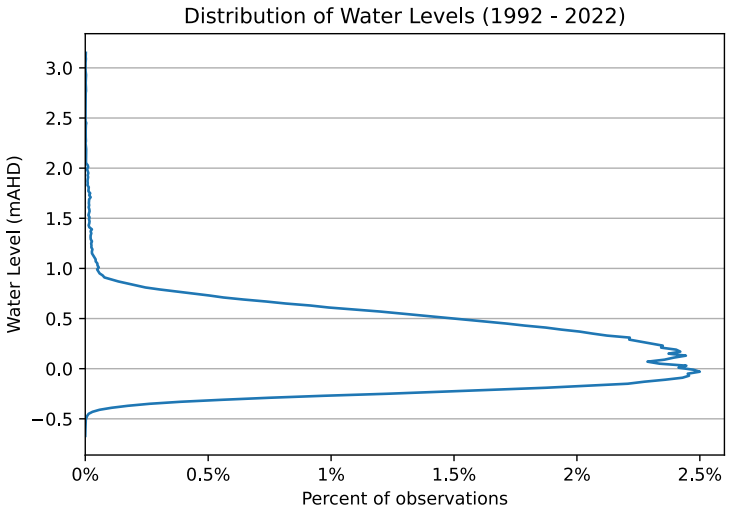
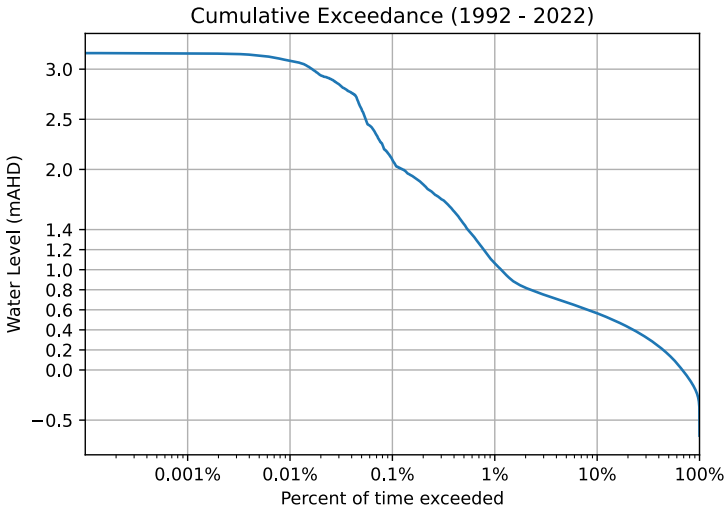
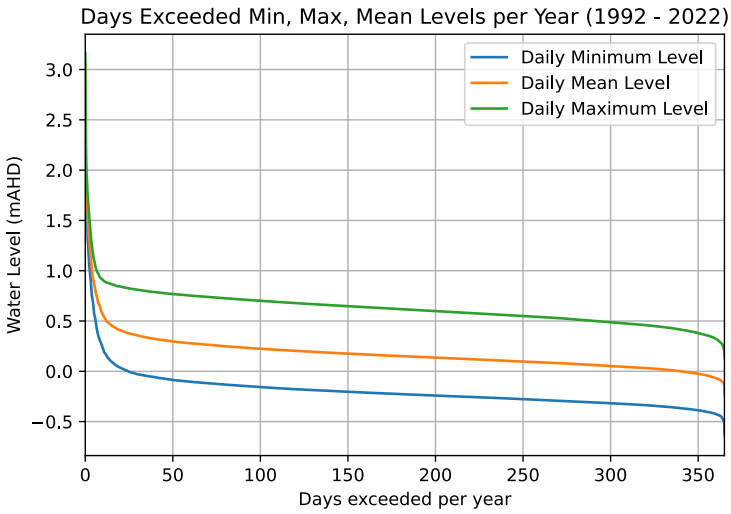
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00017	164	164	0.01654
3.0	0.00018	183	347	0.034997
2.8	0.00015	150	497	0.050125
2.6	0.00015	146	643	0.06485
2.4	0.00018	181	824	0.083105
2.2	0.00042	418	1242	0.12526
2.0	0.00100	990	2232	0.22511
1.8	0.00161	1595	3827	0.38597
1.6	0.00156	1545	5372	0.54179
1.4	0.00238	2362	7734	0.78002
1.2	0.00379	3759	11493	1.1591
1.0	0.01071	10621	22114	2.2303
0.8	0.05899	58486	80600	8.1289
0.6	0.14476	143536	224136	22.605
0.4	0.21595	214116	438252	44.2
0.2	0.23844	236421	674673	68.044
0.0	0.23352	231543	906216	91.397
-0.2	0.08437	83650	989866	99.833
-0.4	0.00165	1637	991503	99.998
-0.6	0.00002	16	991519	100

Station Information	
Station no.	207406
Station name	Green Valley
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	486416
Northing	6540068

Summary Statistics	
Time interval (mins)	15
Start of record	14/12/1992
Highest water level recorded (m)	3.156
Date recorded	22/03/2021
Lowest water level recorded (m)	-0.693
Date recorded	25/03/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207406

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Green Valley (207406)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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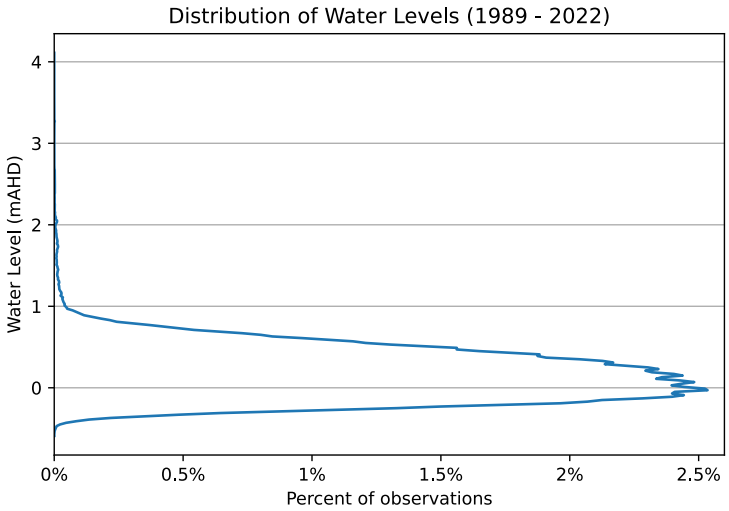
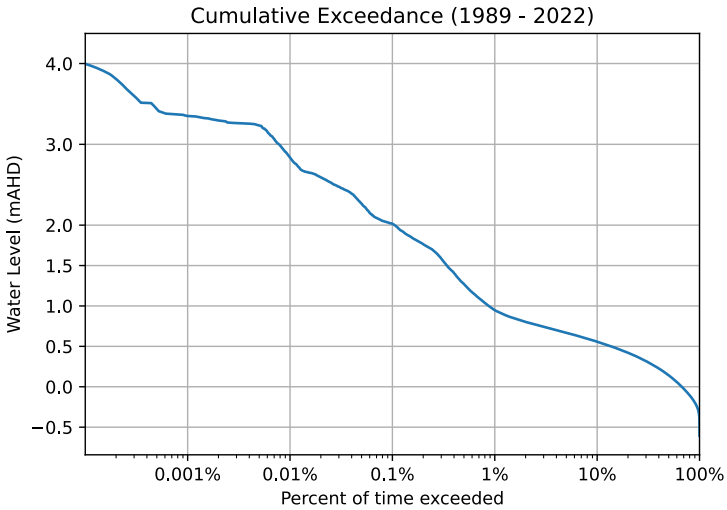
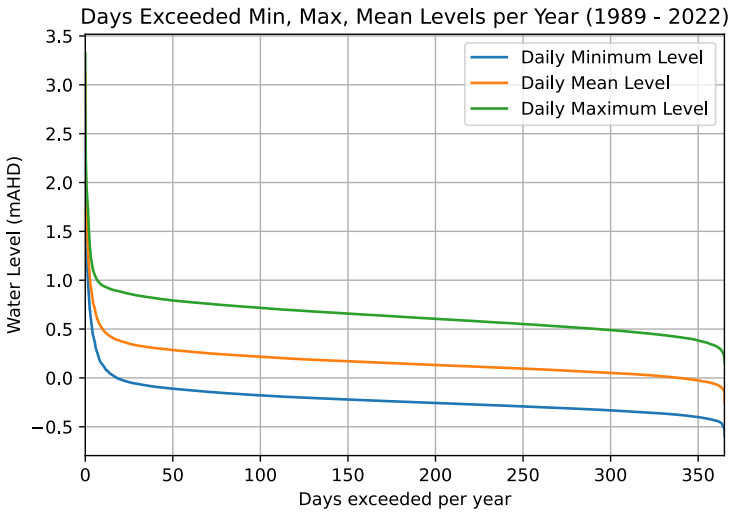
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.2	0.00000	2	2	0.0001753
4.0	0.00000	1	3	0.00026295
3.8	0.00000	1	4	0.0003506
3.6	0.00000	3	7	0.00061355
3.4	0.00005	55	62	0.0054343
3.2	0.00002	27	89	0.0078008
3.0	0.00003	31	120	0.010518
2.8	0.00009	101	221	0.019371
2.6	0.00020	225	446	0.039092
2.4	0.00017	193	639	0.056008
2.2	0.00049	564	1203	0.10544
2.0	0.00073	832	2035	0.17837
1.8	0.00116	1326	3361	0.29459
1.6	0.00109	1249	4610	0.40406
1.4	0.00161	1837	6447	0.56508
1.2	0.00309	3521	9968	0.87369
1.0	0.01156	13186	23154	2.0294
0.8	0.05721	65266	88420	7.75
0.6	0.14145	161383	249803	21.895
0.4	0.21229	242206	492009	43.124
0.2	0.23924	272956	764965	67.049
0.0	0.23432	267332	1032297	90.48
-0.2	0.09283	105909	1138206	99.763
-0.4	0.00237	2700	1140906	100

Station Information	
Station no.	207415
Station name	Telegraph Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	481082
Northing	6534512

Summary Statistics	
Time interval (mins)	15
Start of record	15/09/1989
Highest water level recorded (m)	4.134
Date recorded	19/03/2021
Lowest water level recorded (m)	-0.610
Date recorded	17/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207415

NSW GOVERNMENT

Telegraph Point (207415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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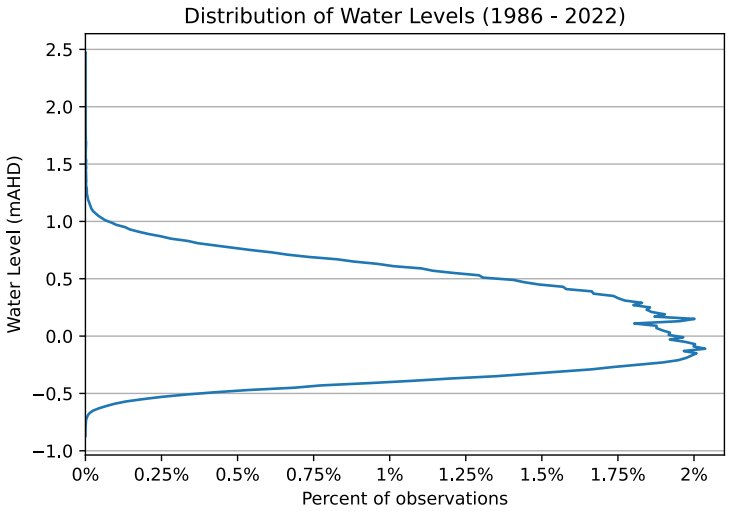
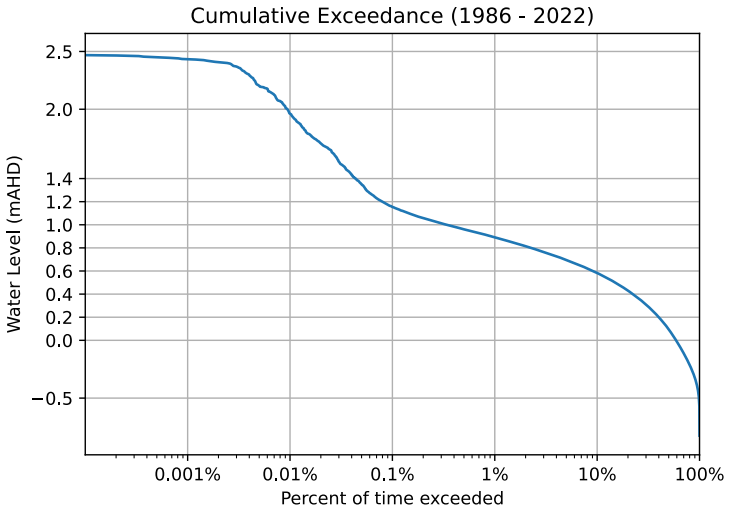
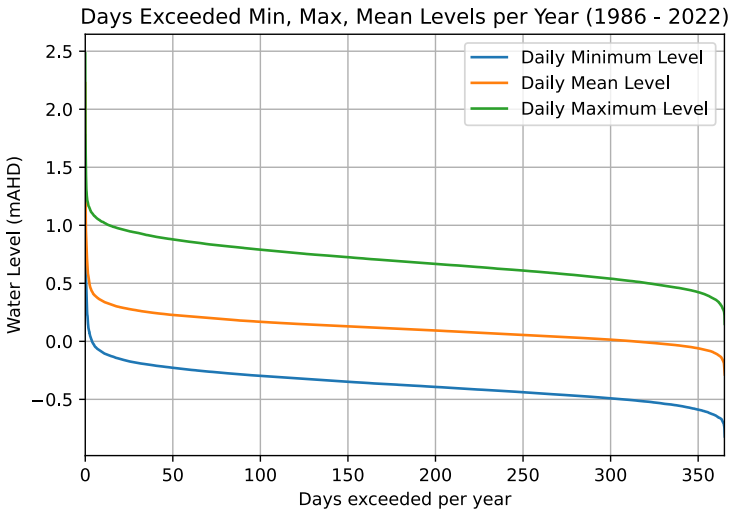
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00002	31	31	0.0024666
2.4	0.00002	20	51	0.004058
2.3	0.00001	13	64	0.0050924
2.2	0.00002	28	92	0.0073203
2.1	0.00002	27	119	0.0094686
2.0	0.00002	26	145	0.011537
1.9	0.00003	37	182	0.014481
1.8	0.00006	73	255	0.02029
1.7	0.00007	90	345	0.027451
1.6	0.00007	86	431	0.034294
1.5	0.00010	121	552	0.043922
1.4	0.00012	150	702	0.055857
1.3	0.00024	300	1002	0.079727
1.2	0.00065	813	1815	0.14442
1.1	0.00193	2427	4242	0.33753
1.0	0.00582	7311	11553	0.91925
0.9	0.01338	16819	28372	2.2575
0.8	0.02579	32415	60787	4.8367
0.7	0.04241	53302	114089	9.0778
0.6	0.05920	74400	188489	14.998
0.5	0.07350	92375	280864	22.348
0.4	0.08518	107050	387914	30.866
0.3	0.09153	115030	502944	40.018
0.2	0.09514	119567	622511	49.532
0.1	0.09457	118858	741369	58.989
0.0	0.09816	123370	864739	68.806
-0.1	0.10001	125690	990429	78.806
-0.2	0.09229	115993	1106422	88.036
-0.3	0.06928	87072	1193494	94.964
-0.4	0.03667	46091	1239585	98.631
-0.5	0.01156	14531	1254116	99.788
-0.6	0.00200	2513	1256629	99.988
-0.7	0.00012	155	1256784	100
-0.8	0.00000	2	1256786	100

Station Information	
Station no.	207418
Station name	Settlement Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	490636
Northing	6525312

Summary Statistics	
Time interval (mins)	15
Start of record	20/02/1986
Highest water level recorded (m)	2.476
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.890
Date recorded	08/02/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207418

NSW GOVERNMENT

Settlement Point (207418)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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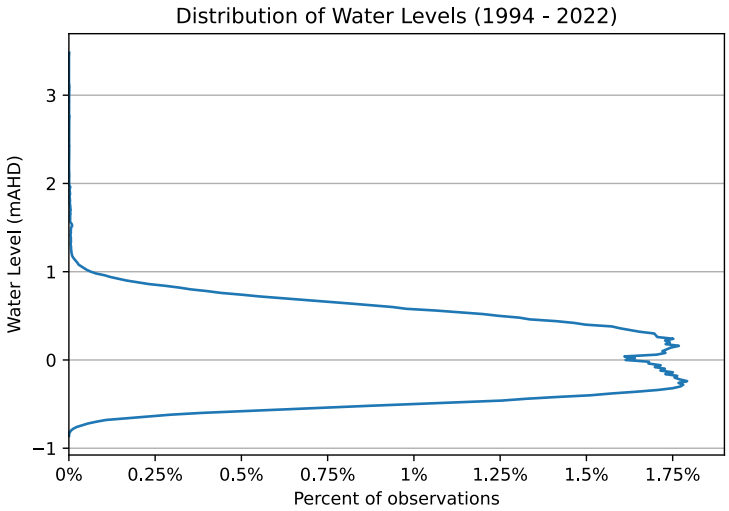
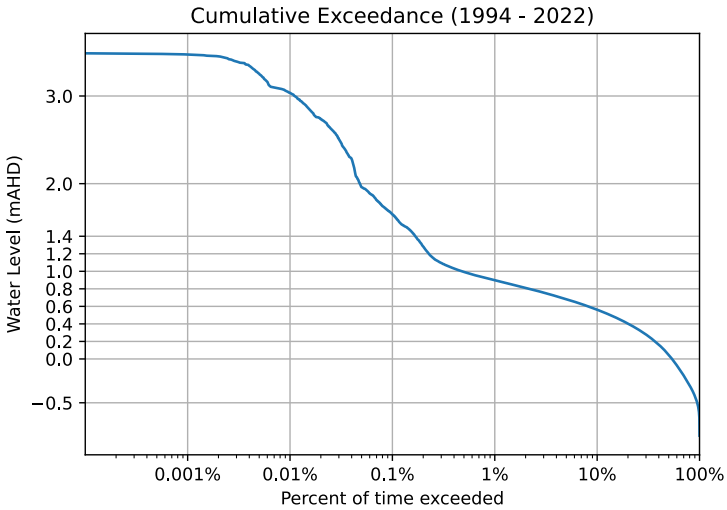
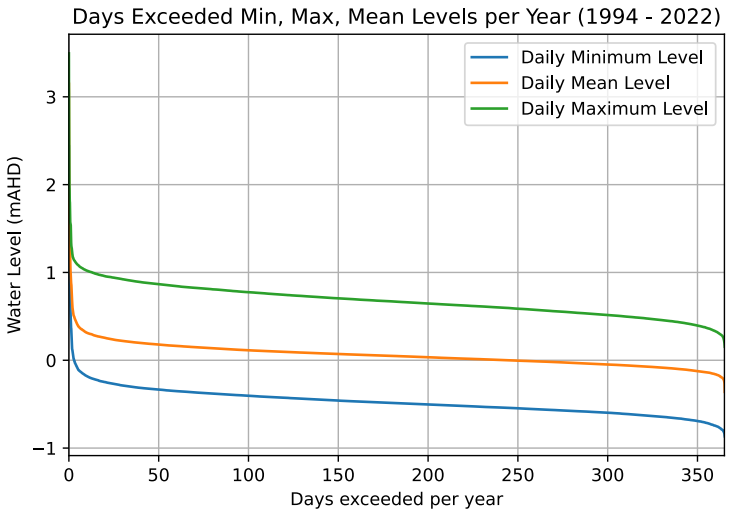
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.7	0.00000	0	0	0
3.5	0.00005	43	43	0.0045458
3.3	0.00002	22	65	0.0068715
3.1	0.00007	69	134	0.014166
2.9	0.00008	74	208	0.021989
2.7	0.00008	79	287	0.03034
2.5	0.00008	78	365	0.038586
2.3	0.00005	48	413	0.043661
2.1	0.00015	145	558	0.058989
1.9	0.00030	288	846	0.089436
1.7	0.00050	474	1320	0.13954
1.5	0.00056	525	1845	0.19505
1.3	0.00100	943	2788	0.29474
1.1	0.00693	6558	9346	0.98802
0.9	0.03443	32571	41917	4.4313
0.7	0.09056	85659	127576	13.487
0.5	0.14708	139129	266705	28.195
0.3	0.17299	163636	430341	45.494
0.1	0.16791	158832	589173	62.285
-0.1	0.17550	166013	755186	79.835
-0.3	0.15064	142499	897685	94.899
-0.5	0.04883	46192	943877	99.783
-0.7	0.00217	2056	945933	100

Station Information	
Station no.	207444
Station name	Dennis Bridge Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	482995
Northing	6525235

Summary Statistics	
Time interval (mins)	15
Start of record	01/05/1994
Highest water level recorded (m)	3.493
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.880
Date recorded	01/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207444

NSW GOVERNMENT

Dennis Bridge Downstream (207444)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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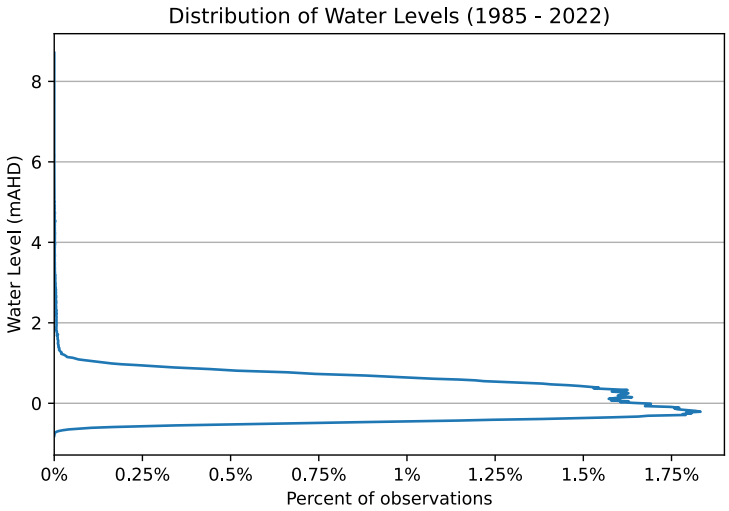
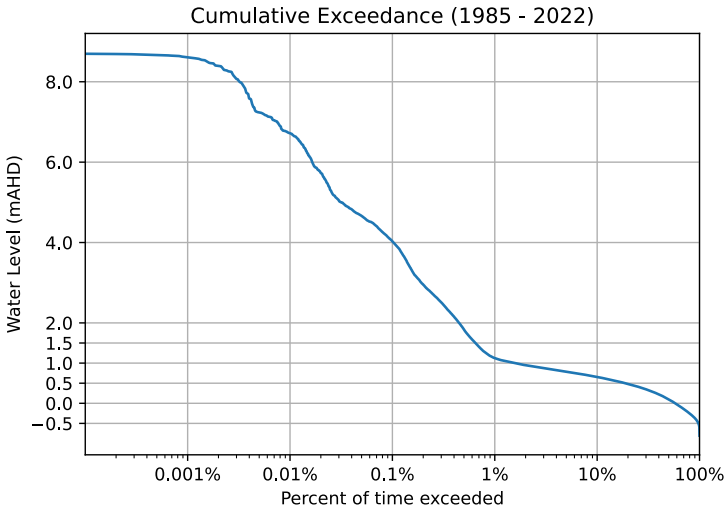
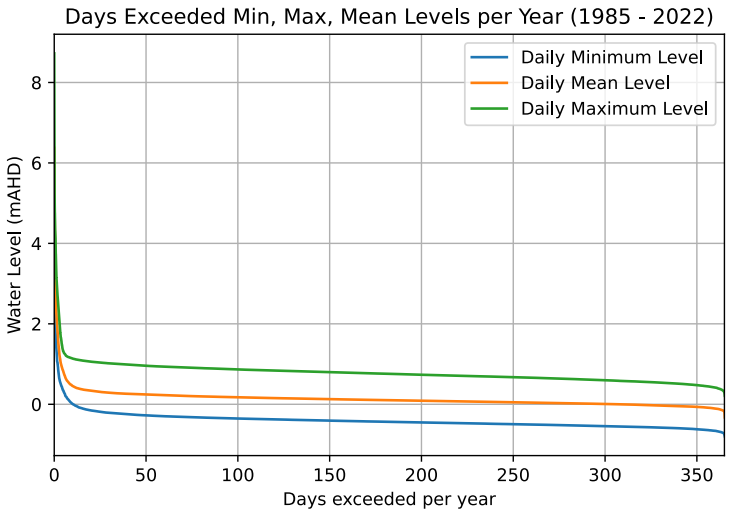
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
8.8	0.00002	20	20	0.0016255
8.5	0.00001	14	34	0.0027634
8.2	0.00001	9	43	0.0034949
7.9	0.00000	6	49	0.0039826
7.6	0.00001	7	56	0.0045515
7.3	0.00003	37	93	0.0075588
7.0	0.00003	36	129	0.010485
6.7	0.00003	37	166	0.013492
6.4	0.00002	30	196	0.01593
6.1	0.00003	40	236	0.019181
5.8	0.00003	43	279	0.022676
5.5	0.00004	44	323	0.026252
5.2	0.00010	120	443	0.036006
4.9	0.00018	221	664	0.053968
4.6	0.00023	285	949	0.077132
4.3	0.00026	316	1265	0.10282
4.0	0.00023	287	1552	0.12614
3.7	0.00022	266	1818	0.14776
3.4	0.00030	374	2192	0.17816
3.1	0.00052	642	2834	0.23034
2.8	0.00072	889	3723	0.30259
2.5	0.00083	1025	4748	0.3859
2.2	0.00095	1169	5917	0.48092
1.9	0.00114	1401	7318	0.59478
1.6	0.00179	2197	9515	0.77335
1.3	0.00780	9595	19110	1.5532
1.0	0.06468	79577	98687	8.021
0.7	0.17987	221311	319998	26.008
0.4	0.23896	294008	614006	49.905
0.1	0.25321	311542	925548	75.226
-0.2	0.22346	274931	1200479	97.571
-0.5	0.02429	29882	1230361	100

Station Information	
Station no.	207401
Station name	Wauchope Railway Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	474995
Northing	6520192

Summary Statistics	
Time interval (mins)	15
Start of record	14/10/1985
Highest water level recorded (m)	8.719
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.830
Date recorded	13/01/1998







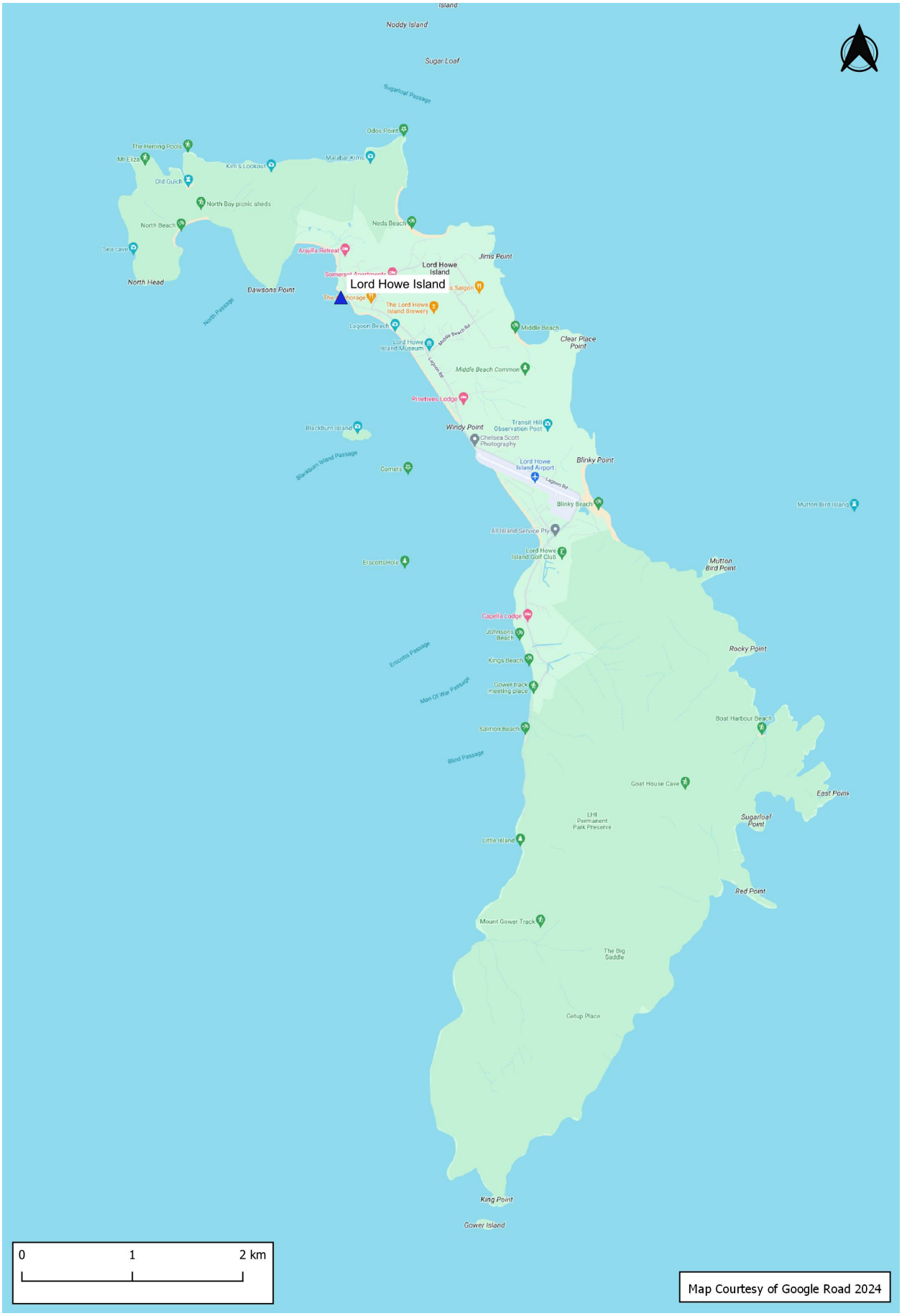
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207401

NSW GOVERNMENT

Wauchope Railway Bridge (207401)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A95



NSW GOVERNMENT

STATION LOCATIONS
LORD HOWE ISLAND

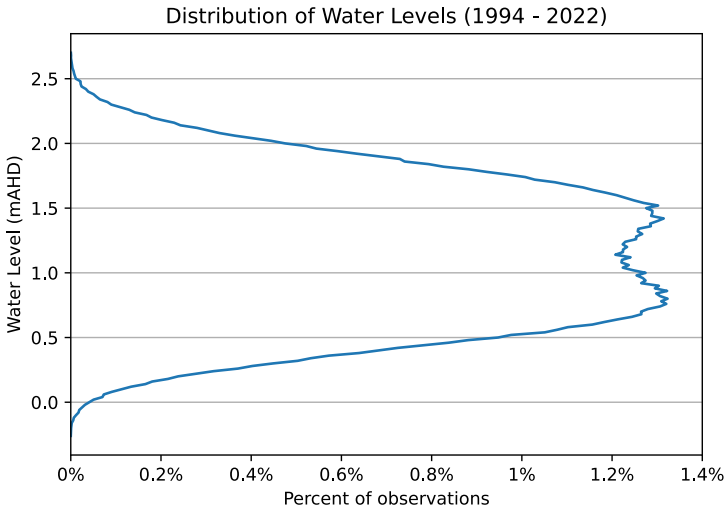
Manly Hydraulics Laboratory

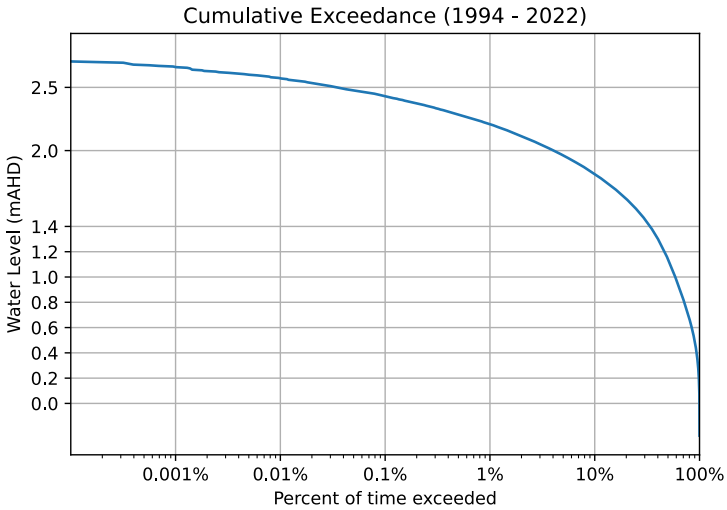
MHL2971
Figure
A96

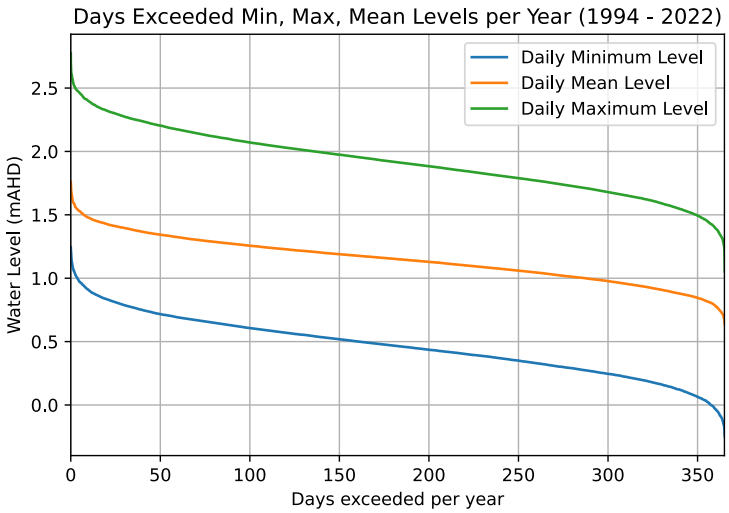
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.8	0.00000	2	2	0.00020783
2.7	0.00005	47	49	0.0050919
2.6	0.00030	284	333	0.034604
2.5	0.00112	1076	1409	0.14642
2.4	0.00292	2814	4223	0.43884
2.3	0.00638	6141	10364	1.077
2.2	0.01134	10910	21274	2.2107
2.1	0.01845	17755	39029	4.0558
2.0	0.02770	26652	65681	6.8254
1.9	0.03770	36277	101958	10.595
1.8	0.04807	46260	148218	15.402
1.7	0.05653	54403	202621	21.056
1.6	0.06259	60233	262854	27.315
1.5	0.06455	62119	324973	33.77
1.4	0.06386	61451	386424	40.156
1.3	0.06226	59917	446341	46.382
1.2	0.06130	58988	505329	52.512
1.1	0.06150	59179	564508	58.662
1.0	0.06335	60967	625475	64.997
0.9	0.06525	62792	688267	71.522
0.8	0.06538	62914	751181	78.06
0.7	0.06169	59363	810544	84.229
0.6	0.05364	51614	862158	89.593
0.5	0.04171	40141	902299	93.764
0.4	0.02929	28183	930482	96.693
0.3	0.01815	17469	947951	98.508
0.2	0.00933	8982	956933	99.441
0.1	0.00397	3820	960753	99.838
0.0	0.00133	1279	962032	99.971
-0.1	0.00027	263	962295	99.999
-0.2	0.00001	14	962309	100

Station Information	
Station no.	240402
Station name	Lord Howe Island
Datum	Lord Howe Island Hydro Datum (1963)
MGA zone	57
Easting	505521
Northing	6512362

Summary Statistics	
Time interval (mins)	15
Start of record	03/08/1994
Highest water level recorded (m)	2.700
Date recorded	14/07/1995
Lowest water level recorded (m)	-0.280
Date recorded	09/10/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-240402

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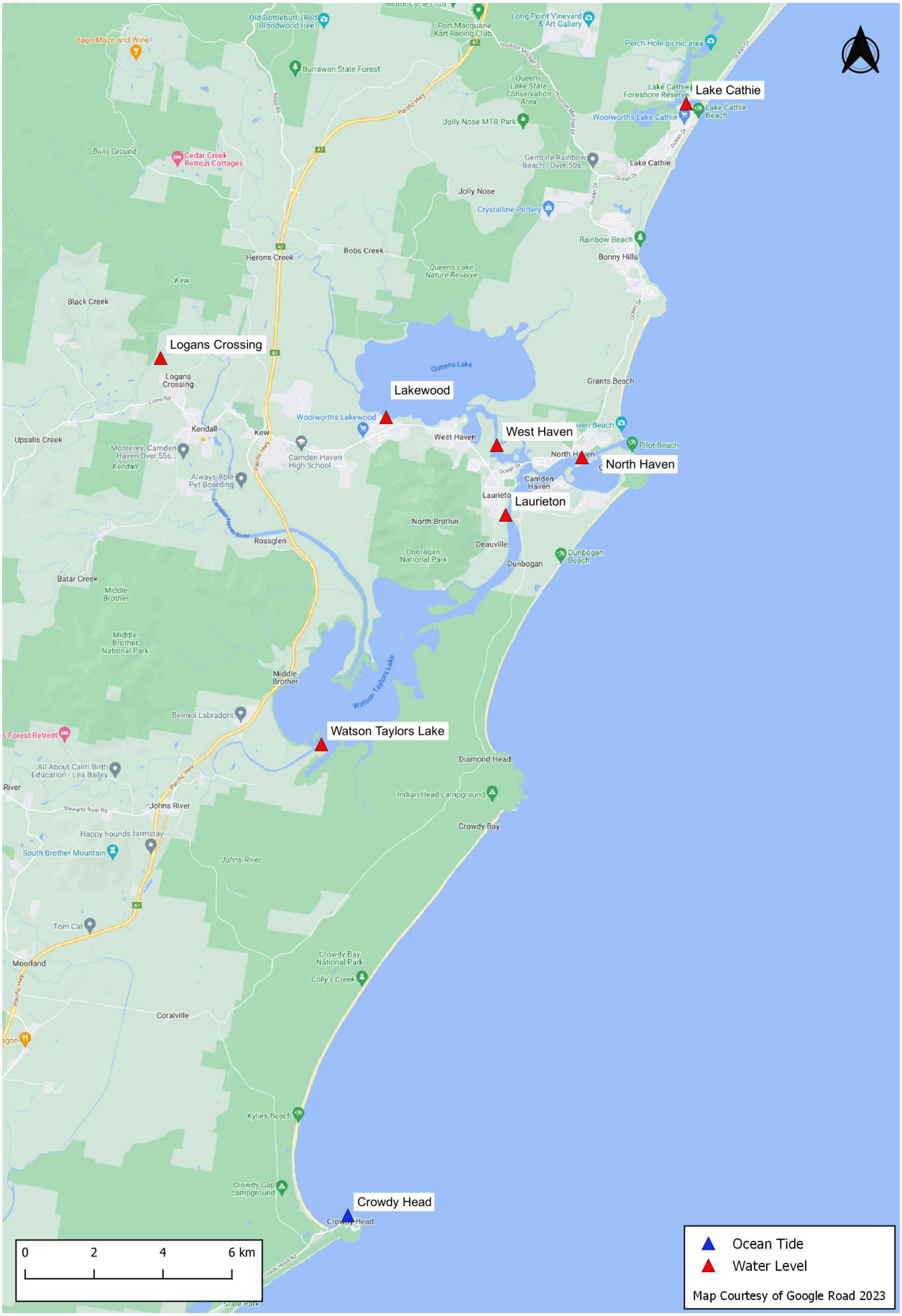
Lord Howe Island (240402)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A97



NSW GOVERNMENT

STATION LOCATIONS
CAMDEN HAVEN RIVER REGION

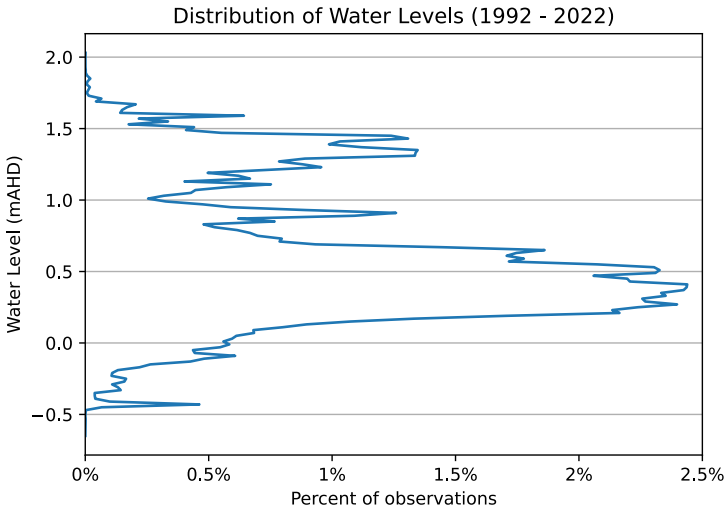
Manly Hydraulics Laboratory

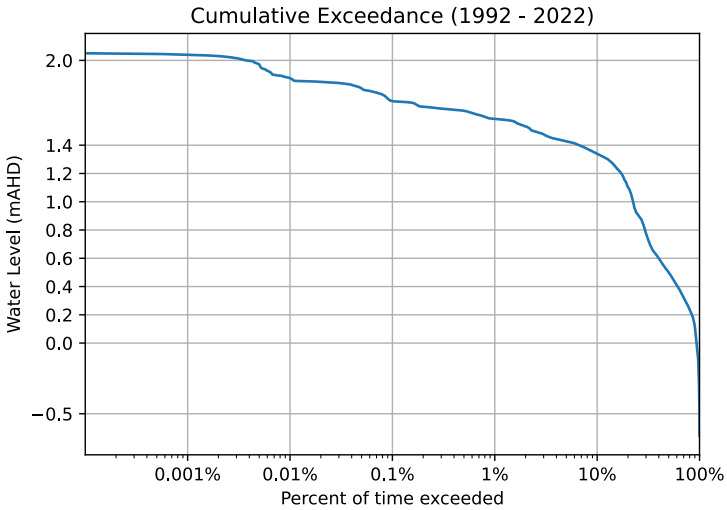
MHL2971
Figure
A98

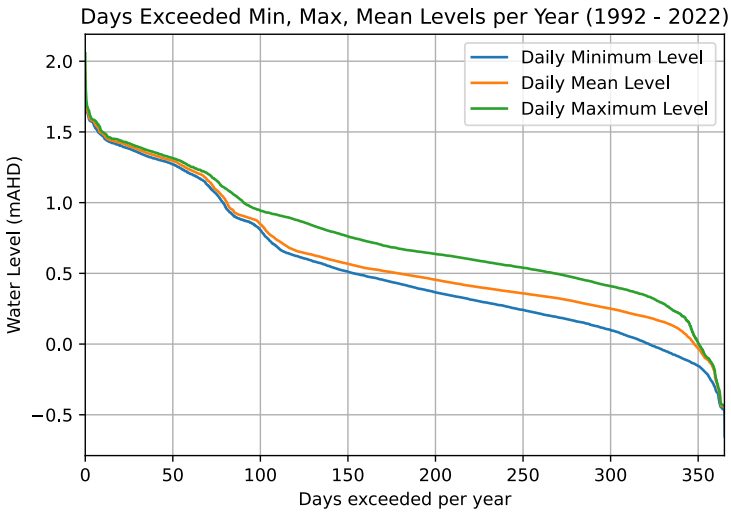
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00004	39	39	0.0037509
2.0	0.00003	31	70	0.0067323
1.9	0.00044	455	525	0.050492
1.8	0.00107	1109	1634	0.15715
1.7	0.00642	6672	8306	0.79884
1.6	0.01598	16614	24920	2.3967
1.5	0.04291	44619	69539	6.688
1.4	0.06052	62930	132469	12.74
1.3	0.04508	46870	179339	17.248
1.2	0.02916	30323	209662	20.164
1.1	0.02264	23541	233203	22.428
1.0	0.03046	31666	264869	25.474
0.9	0.03810	39619	304488	29.284
0.8	0.03457	35945	340433	32.741
0.7	0.07252	75401	415834	39.993
0.6	0.09887	102801	518635	49.88
0.5	0.11122	115647	634282	61.003
0.4	0.11928	124022	758304	72.93
0.3	0.11294	117426	875730	84.224
0.2	0.06441	66969	942699	90.665
0.1	0.03245	33743	976442	93.91
0.0	0.02551	26528	1002970	96.461
-0.1	0.01805	18765	1021735	98.266
-0.2	0.00648	6737	1028472	98.914
-0.3	0.00422	4384	1032856	99.336
-0.4	0.00658	6843	1039699	99.994
-0.5	0.00004	45	1039744	99.998
-0.6	0.00002	19	1039763	100

Station Information	
Station no.	207441
Station name	Lake Cathie
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	486162
Northing	6509679

Summary Statistics	
Time interval (mins)	15
Start of record	04/08/1992
Highest water level recorded (m)	2.050
Date recorded	24/02/2013
Lowest water level recorded (m)	-0.670
Date recorded	01/11/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207441

NSW GOVERNMENT

Lake Cathie (207441)
FREQUENCY DISTRIBUTION ANALYSIS

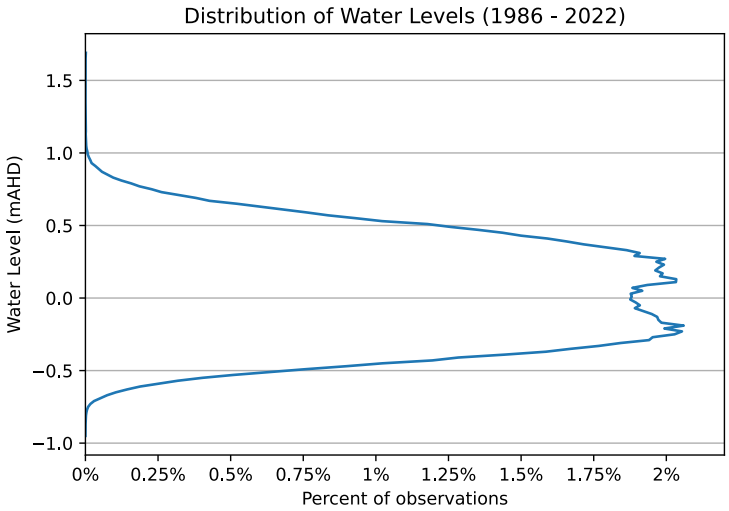
Manly Hydraulics Laboratory

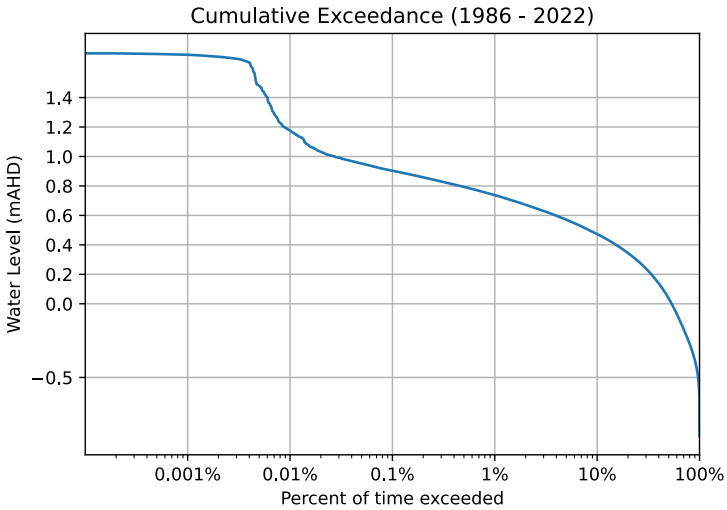
MHL2971
Figure
A99

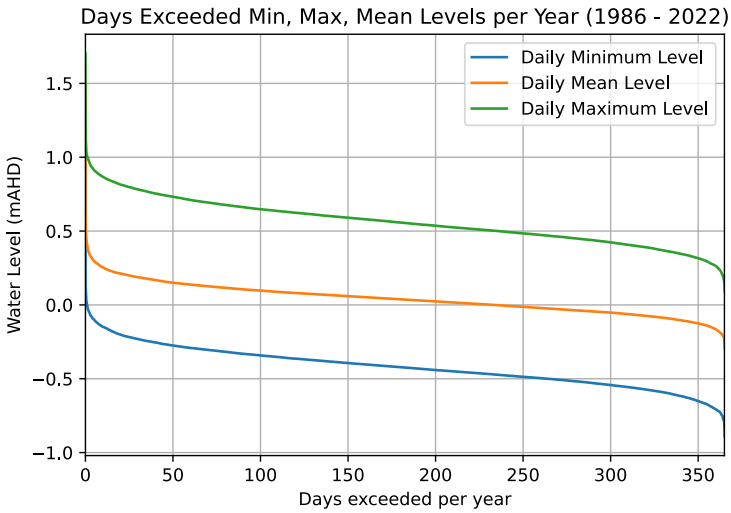
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00004	47	47	0.0040536
1.6	0.00000	5	52	0.0044848
1.5	0.00001	15	67	0.0057785
1.4	0.00001	10	77	0.0066409
1.3	0.00002	21	98	0.0084521
1.2	0.00005	60	158	0.013627
1.1	0.00013	156	314	0.027081
1.0	0.00078	902	1216	0.10487
0.9	0.00352	4078	5294	0.45659
0.8	0.01050	12174	17468	1.5065
0.7	0.02432	28201	45669	3.9388
0.6	0.04483	51980	97649	8.4218
0.5	0.06926	80310	177959	15.348
0.4	0.08773	101726	279685	24.122
0.3	0.09772	113309	392994	33.894
0.2	0.10033	116335	509329	43.927
0.1	0.09525	110440	619769	53.452
0.0	0.09467	109771	729540	62.92
-0.1	0.09855	114261	843801	72.774
-0.2	0.10033	116328	960129	82.807
-0.3	0.08575	99427	1059556	91.382
-0.4	0.05499	63754	1123310	96.881
-0.5	0.02364	27414	1150724	99.245
-0.6	0.00661	7667	1158391	99.906
-0.7	0.00088	1017	1159408	99.994
-0.8	0.00006	66	1159474	100

Station Information	
Station no.	207423
Station name	North Haven
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	483134
Northing	6499413

Summary Statistics	
Time interval (mins)	15
Start of record	16/10/1986
Highest water level recorded (m)	1.699
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.970
Date recorded	08/02/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207423

NSW GOVERNMENT

North Haven (207423)
FREQUENCY DISTRIBUTION ANALYSIS

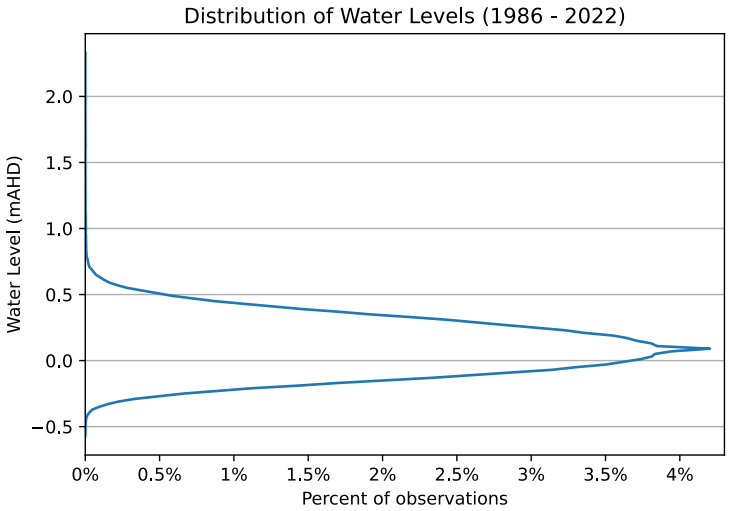
Manly Hydraulics Laboratory

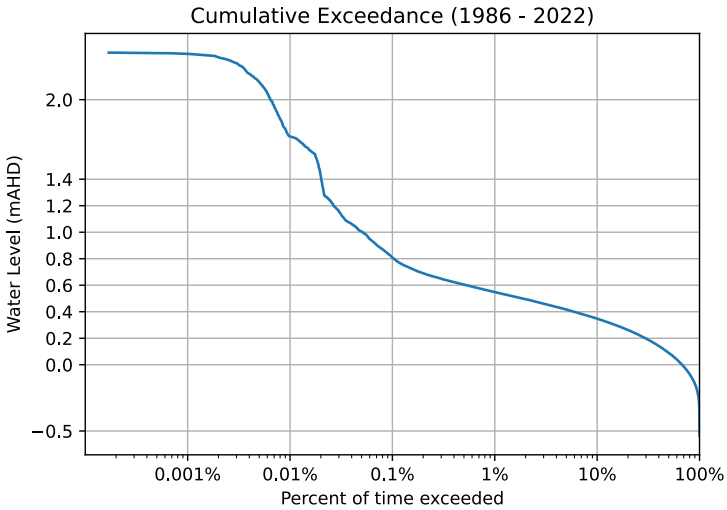
MHL2971
Figure
A100

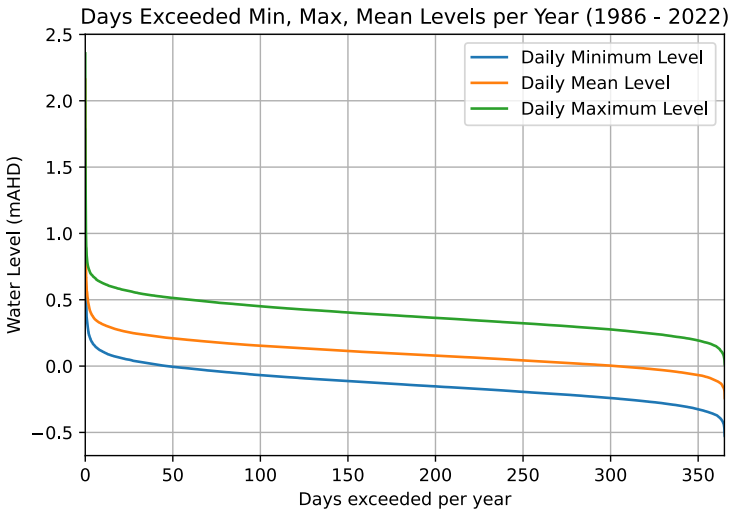
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00002	30	30	0.0024903
2.3	0.00001	18	48	0.0039844
2.2	0.00001	18	66	0.0054786
2.1	0.00001	12	78	0.0064747
2.0	0.00001	13	91	0.0075538
1.9	0.00001	13	104	0.008633
1.8	0.00003	39	143	0.01187
1.7	0.00005	58	201	0.016685
1.6	0.00002	29	230	0.019092
1.5	0.00001	14	244	0.020254
1.4	0.00001	14	258	0.021416
1.3	0.00005	63	321	0.026646
1.2	0.00007	89	410	0.034034
1.1	0.00017	204	614	0.050968
1.0	0.00020	244	858	0.071222
0.9	0.00032	386	1244	0.10326
0.8	0.00080	963	2207	0.1832
0.7	0.00346	4164	6371	0.52885
0.6	0.01334	16072	22443	1.863
0.5	0.04101	49405	71848	5.964
0.4	0.09096	109579	181427	15.06
0.3	0.14592	175790	357217	29.652
0.2	0.18338	220920	578137	47.991
0.1	0.19558	235610	813747	67.549
0.0	0.16884	203395	1017142	84.432
-0.1	0.10811	130241	1147383	95.243
-0.2	0.04015	48364	1195747	99.258
-0.3	0.00692	8338	1204085	99.95
-0.4	0.00048	577	1204662	99.998
-0.5	0.00002	23	1204685	100

Station Information	
Station no.	207437
Station name	West Haven
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	480664
Northing	6499768

Summary Statistics	
Time interval (mins)	15
Start of record	16/10/1986
Highest water level recorded (m)	2.354
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.590
Date recorded	12/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207437

NSW GOVERNMENT

West Haven (207437)
FREQUENCY DISTRIBUTION ANALYSIS

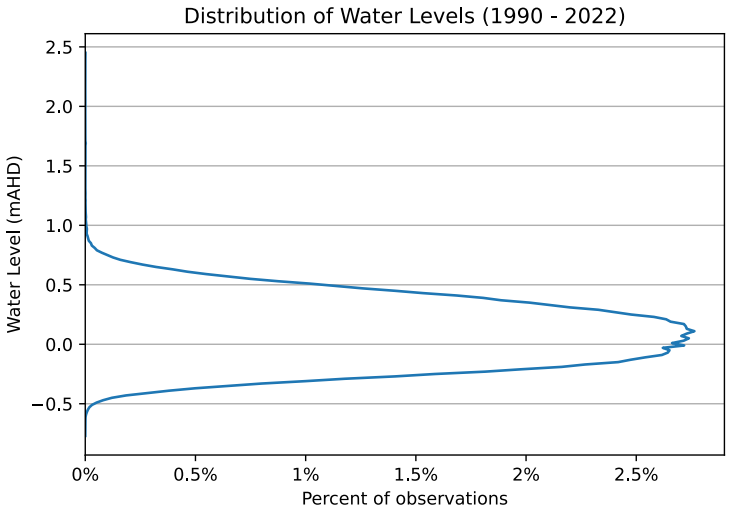
Manly Hydraulics Laboratory

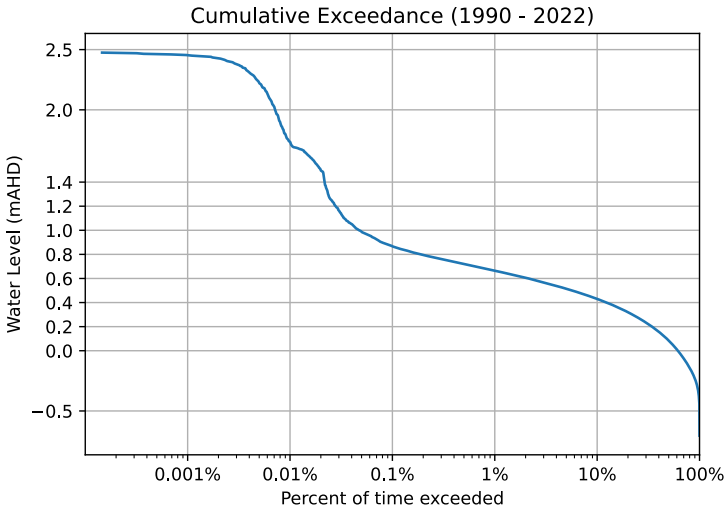
MHL2971
Figure
A101

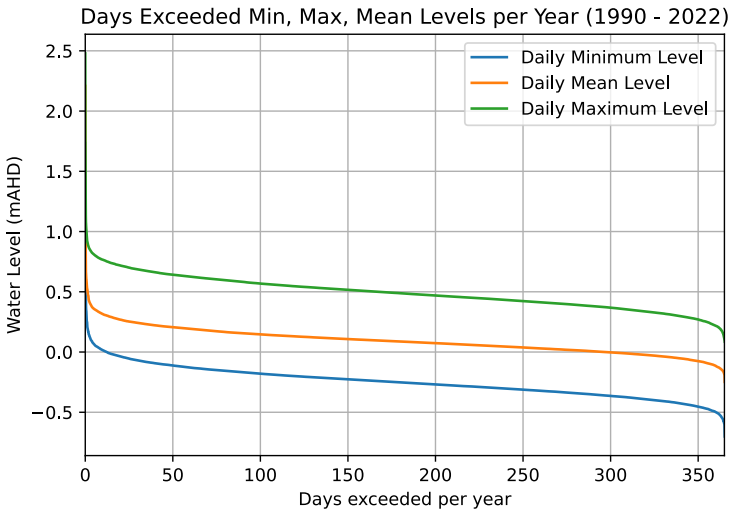
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00003	28	28	0.0026206
2.4	0.00002	17	45	0.0042117
2.3	0.00001	12	57	0.0053348
2.2	0.00001	10	67	0.0062707
2.1	0.00001	10	77	0.0072067
2.0	0.00001	9	86	0.008049
1.9	0.00001	11	97	0.0090785
1.8	0.00001	15	112	0.010482
1.7	0.00006	60	172	0.016098
1.6	0.00004	41	213	0.019935
1.5	0.00002	20	233	0.021807
1.4	0.00002	19	252	0.023585
1.3	0.00004	46	298	0.027891
1.2	0.00006	64	362	0.033881
1.1	0.00013	144	506	0.047358
1.0	0.00032	337	843	0.078899
0.9	0.00111	1183	2026	0.18962
0.8	0.00452	4826	6852	0.6413
0.7	0.01494	15958	22810	2.1349
0.6	0.03554	37968	60778	5.6884
0.5	0.06679	71357	132135	12.367
0.4	0.09754	104218	236353	22.121
0.3	0.12217	130533	366886	34.338
0.2	0.13557	144848	511734	47.895
0.1	0.13577	145060	656794	61.471
0.0	0.13270	141783	798577	74.741
-0.1	0.12112	129410	927987	86.853
-0.2	0.08470	90501	1018488	95.323
-0.3	0.03700	39535	1058023	99.024
-0.4	0.00880	9405	1067428	99.904
-0.5	0.00092	981	1068409	99.996
-0.6	0.00004	44	1068453	100
-0.7	0.00000	2	1068455	100

Station Information	
Station no.	207425
Station name	Laurieton
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	480923
Northing	6497744

Summary Statistics	
Time interval (mins)	15
Start of record	10/08/1990
Highest water level recorded (m)	2.474
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.790
Date recorded	12/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207425

NSW GOVERNMENT

Laurieton (207425)
FREQUENCY DISTRIBUTION ANALYSIS

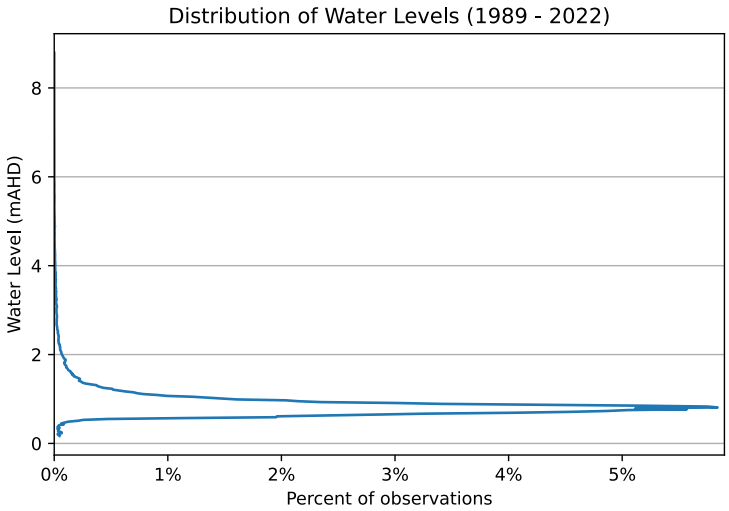
Manly Hydraulics Laboratory

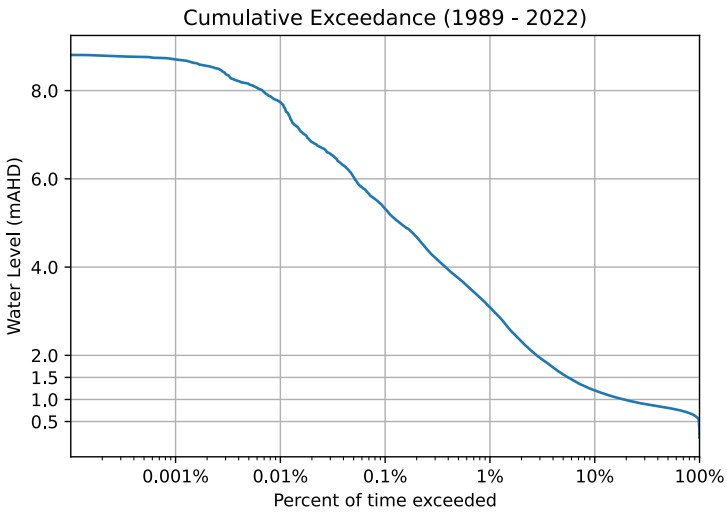
MHL2971
Figure
A102

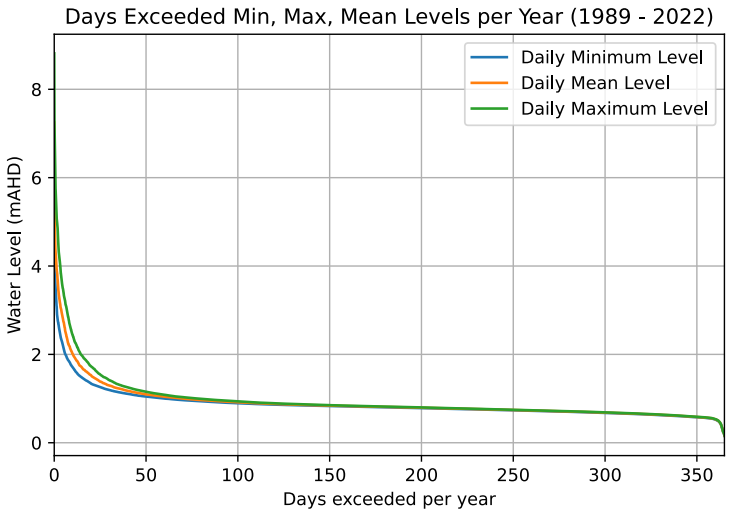
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
8.8	0.00002	26	26	0.0023113
8.5	0.00002	18	44	0.0039115
8.2	0.00003	38	82	0.0072896
7.9	0.00004	40	122	0.010846
7.6	0.00002	21	143	0.012712
7.3	0.00004	48	191	0.01698
7.0	0.00008	87	278	0.024714
6.7	0.00010	118	396	0.035204
6.4	0.00013	146	542	0.048183
6.1	0.00012	139	681	0.06054
5.8	0.00024	266	947	0.084186
5.5	0.00027	299	1246	0.11077
5.2	0.00046	518	1764	0.15682
4.9	0.00057	642	2406	0.21389
4.6	0.00059	667	3073	0.27318
4.3	0.00103	1160	4233	0.37631
4.0	0.00154	1732	5965	0.53028
3.7	0.00201	2260	8225	0.73119
3.4	0.00255	2871	11096	0.98641
3.1	0.00321	3612	14708	1.3075
2.8	0.00362	4068	18776	1.6691
2.5	0.00572	6430	25206	2.2408
2.2	0.00935	10513	35719	3.1753
1.9	0.01592	17906	53625	4.7672
1.6	0.03219	36211	89836	7.9862
1.3	0.11005	123790	213626	18.991
1.0	0.59375	667901	881527	78.366
0.7	0.21110	237458	1118985	99.476
0.4	0.00524	5897	1124882	100

Station Information	
Station no.	207428
Station name	Logans Crossing
Datum	Local Water Resources Datum (1990)
MGA zone	56
Easting	470913
Northing	6502295

Summary Statistics	
Time interval (mins)	15
Start of record	31/10/1989
Highest water level recorded (m)	8.815
Date recorded	19/03/2021
Lowest water level recorded (m)	0.148
Date recorded	15/01/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207428

NSW GOVERNMENT

Logans Crossing (207428)
FREQUENCY DISTRIBUTION ANALYSIS

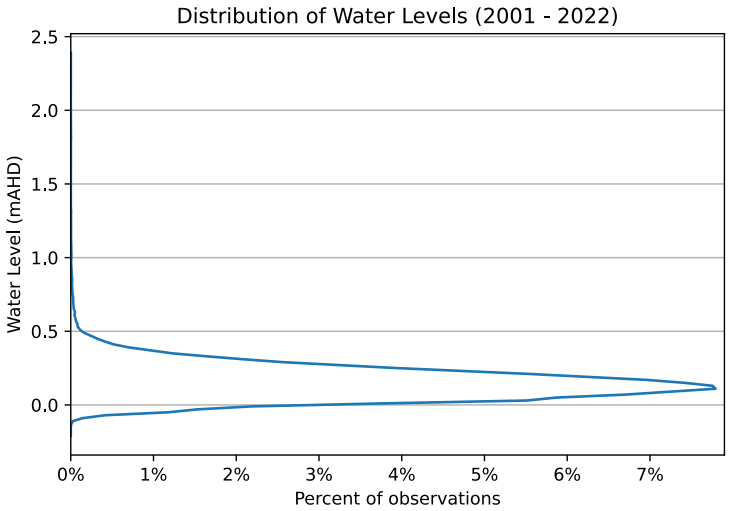
Manly Hydraulics Laboratory

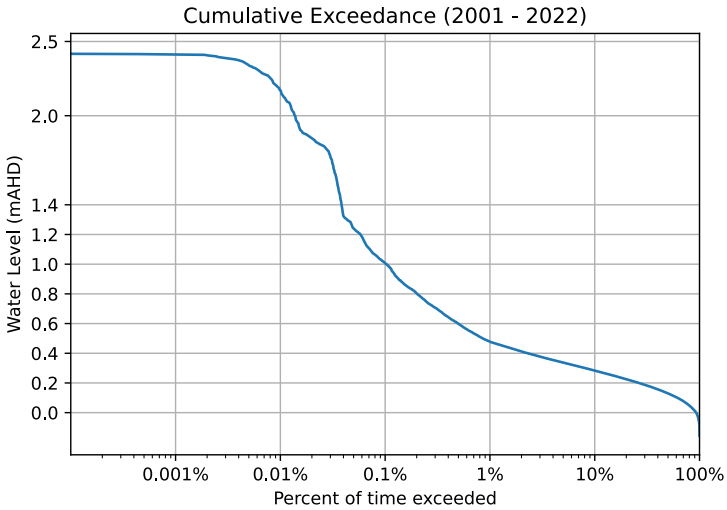
MHL2971
Figure
A103

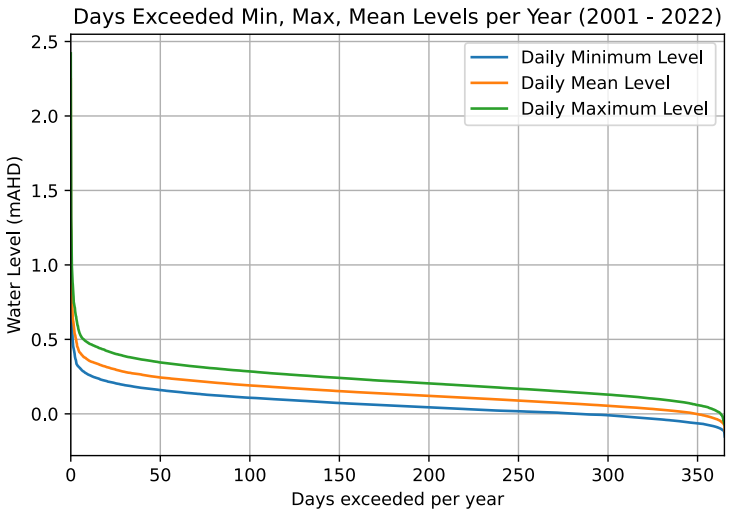
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00004	27	27	0.0038629
2.3	0.00003	20	47	0.0067243
2.2	0.00002	16	63	0.0090134
2.1	0.00002	16	79	0.011303
2.0	0.00002	13	92	0.013162
1.9	0.00010	67	159	0.022748
1.8	0.00006	41	200	0.028614
1.7	0.00003	18	218	0.031189
1.6	0.00002	16	234	0.033479
1.5	0.00002	16	250	0.035768
1.4	0.00005	36	286	0.040918
1.3	0.00015	102	388	0.055511
1.2	0.00014	95	483	0.069103
1.1	0.00031	220	703	0.10058
1.0	0.00032	221	924	0.1322
0.9	0.00068	477	1401	0.20044
0.8	0.00109	759	2160	0.30903
0.7	0.00186	1298	3458	0.49474
0.6	0.00358	2501	5959	0.85256
0.5	0.01441	10070	16029	2.2933
0.4	0.05792	40485	56514	8.0855
0.3	0.18306	127951	184465	26.392
0.2	0.35167	245801	430266	61.558
0.1	0.31197	218051	648317	92.755
0.0	0.07172	50127	698444	99.927
-0.1	0.00071	494	698938	99.997

Station Information	
Station no.	207475
Station name	Lakewood
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	477455
Northing	6500578

Summary Statistics	
Time interval (mins)	15
Start of record	18/12/2001
Highest water level recorded (m)	2.412
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.230
Date recorded	10/03/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207475

NSW GOVERNMENT

Lakewood (207475)
FREQUENCY DISTRIBUTION ANALYSIS

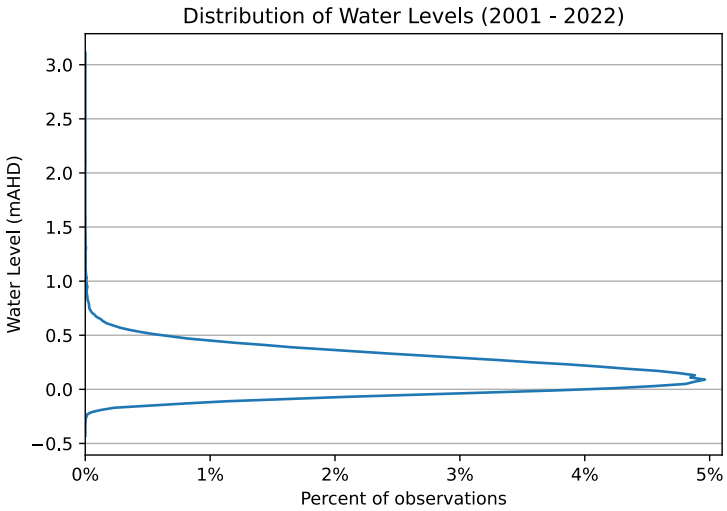
Manly Hydraulics Laboratory

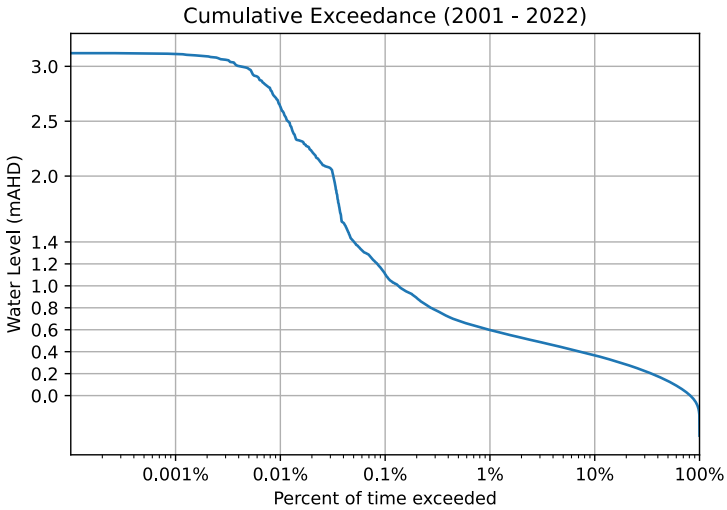
MHL2971
Figure
A104

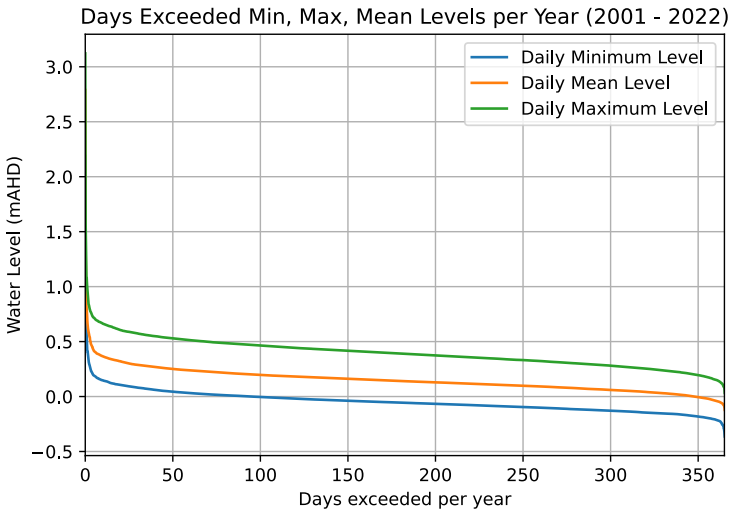
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.1	0.00003	18	18	0.0025966
3.0	0.00002	14	32	0.0046161
2.9	0.00002	13	45	0.0064914
2.8	0.00001	8	53	0.0076455
2.7	0.00001	8	61	0.0087995
2.6	0.00001	10	71	0.010242
2.5	0.00001	9	80	0.01154
2.4	0.00004	25	105	0.015147
2.3	0.00004	29	134	0.01933
2.2	0.00004	31	165	0.023802
2.1	0.00007	47	212	0.030582
2.0	0.00002	11	223	0.032169
1.9	0.00001	10	233	0.033611
1.8	0.00002	12	245	0.035342
1.7	0.00001	10	255	0.036785
1.6	0.00006	39	294	0.042411
1.5	0.00007	47	341	0.049191
1.4	0.00014	99	440	0.063472
1.3	0.00019	134	574	0.082802
1.2	0.00017	115	689	0.099391
1.1	0.00033	226	915	0.13199
1.0	0.00060	419	1334	0.19244
0.9	0.00078	544	1878	0.27091
0.8	0.00171	1188	3066	0.44228
0.7	0.00534	3705	6771	0.97674
0.6	0.01661	11512	18283	2.6374
0.5	0.04686	32482	50765	7.3231
0.4	0.10255	71092	121857	17.578
0.3	0.17225	119409	241266	34.804
0.2	0.23058	159843	401109	57.862
0.1	0.23802	165003	566112	81.664
0.0	0.14669	101687	667799	96.333
-0.1	0.03524	24429	692228	99.857
-0.2	0.00137	951	693179	99.994
-0.3	0.00004	31	693210	99.998

Station Information	
Station no.	207480
Station name	Watson Taylors Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	475578
Northing	6491082

Summary Statistics	
Time interval (mins)	15
Start of record	01/12/2001
Highest water level recorded (m)	3.115
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.450
Date recorded	27/02/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-207480

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Watson Taylors Lake (207480)
FREQUENCY DISTRIBUTION ANALYSIS

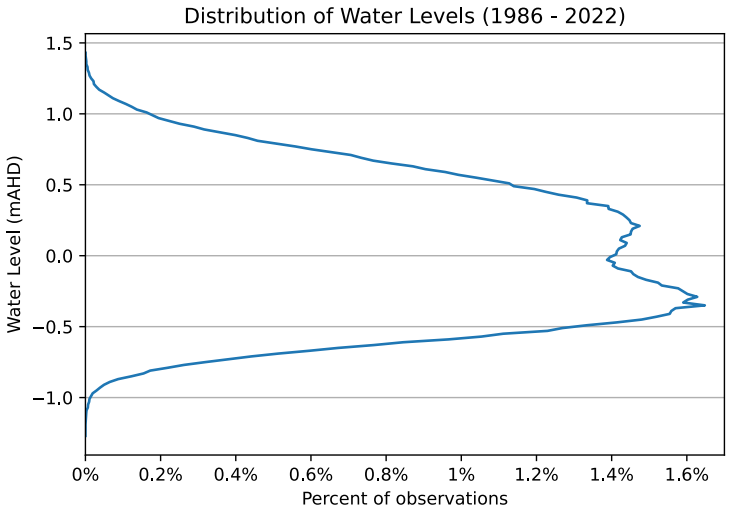
Manly Hydraulics Laboratory

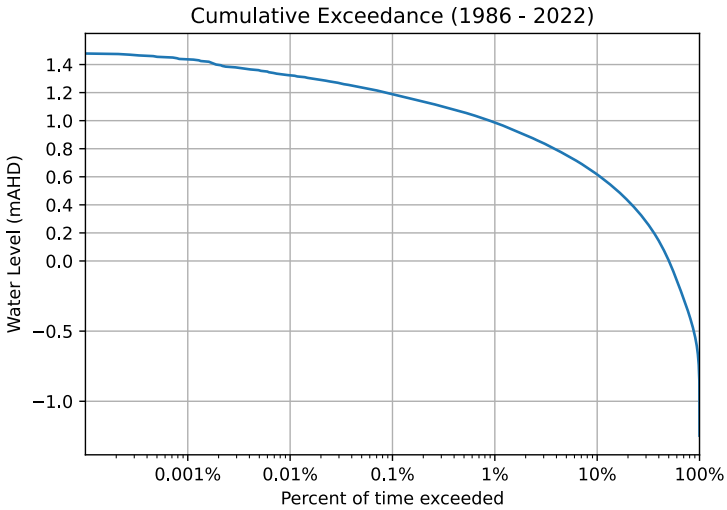
MHL2971
Figure
A105

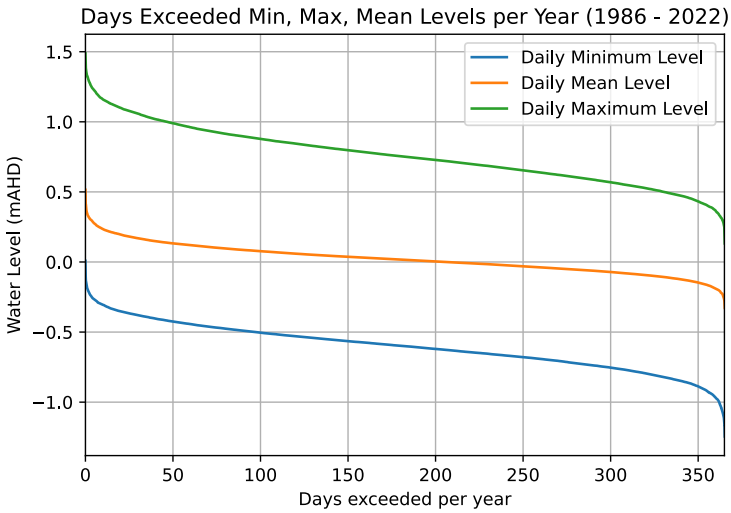
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00000	0	0	0
1.5	0.00002	23	23	0.0019324
1.4	0.00014	171	194	0.0163
1.3	0.00071	847	1041	0.087464
1.2	0.00227	2707	3748	0.3149
1.1	0.00575	6840	10588	0.8896
1.0	0.01065	12680	23268	1.955
0.9	0.01880	22380	45648	3.8353
0.8	0.02899	34509	80157	6.7347
0.7	0.03989	47473	127630	10.723
0.6	0.05099	60686	188316	15.822
0.5	0.06023	71687	260003	21.845
0.4	0.06823	81209	341212	28.668
0.3	0.07212	85840	427052	35.881
0.2	0.07236	86118	513170	43.116
0.1	0.07129	84844	598014	50.245
0.0	0.07008	83414	681428	57.253
-0.1	0.07334	87293	768721	64.587
-0.2	0.07881	93796	862517	72.468
-0.3	0.08019	95438	957955	80.487
-0.4	0.07409	88182	1046137	87.896
-0.5	0.05824	69319	1115456	93.72
-0.6	0.03612	42988	1158444	97.332
-0.7	0.01767	21027	1179471	99.098
-0.8	0.00677	8062	1187533	99.776
-0.9	0.00174	2074	1189607	99.95
-1.0	0.00043	516	1190123	99.993
-1.1	0.00006	77	1190200	100
-1.2	0.00000	4	1190204	100

Station Information	
Station no.	208471
Station name	Crowdy Head
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	476346
Northing	6477415

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1986
Highest water level recorded (m)	1.439
Date recorded	19/08/2001
Lowest water level recorded (m)	-1.291
Date recorded	06/10/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208471

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Crowdy Head (208471)
FREQUENCY DISTRIBUTION ANALYSIS

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MHL2971
Figure
A107

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STATION LOCATIONS
MANNING RIVER REGION

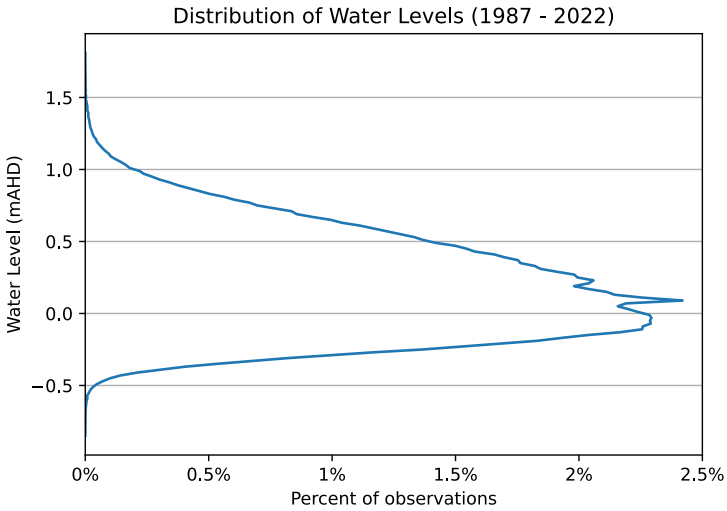
Manly Hydraulics Laboratory

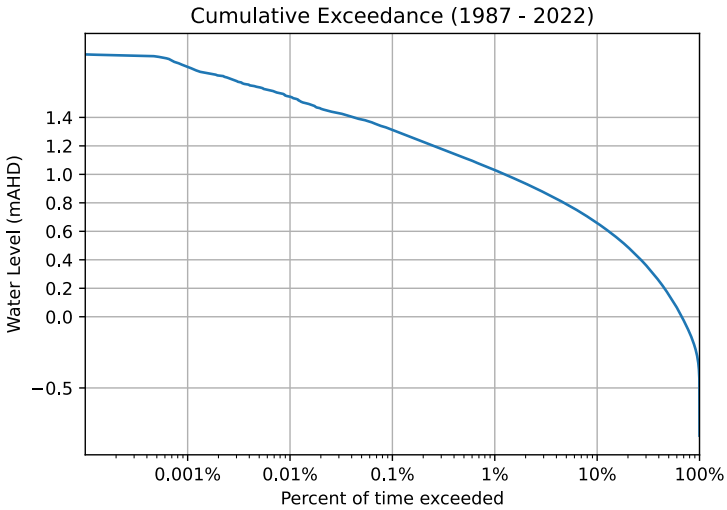
MHL2971
Figure
A107

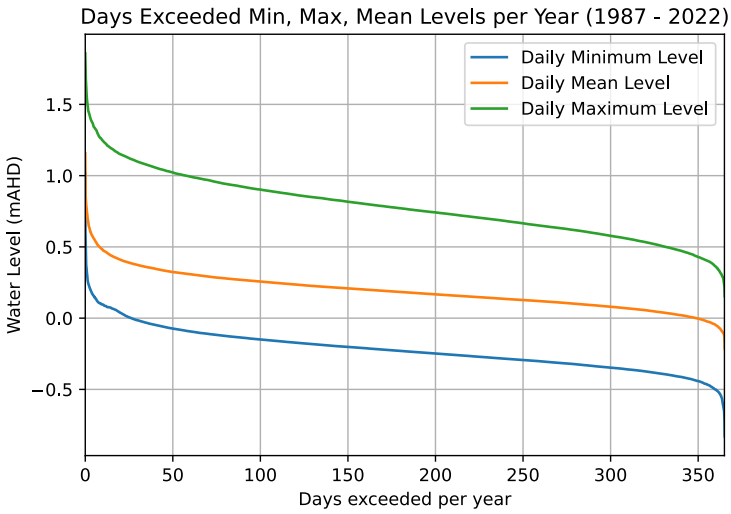
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00001	8	8	0.00074246
1.8	0.00001	13	21	0.001949
1.7	0.00004	39	60	0.0055685
1.6	0.00009	93	153	0.0142
1.5	0.00028	301	454	0.042135
1.4	0.00070	752	1206	0.11193
1.3	0.00141	1518	2724	0.25281
1.2	0.00324	3492	6216	0.57689
1.1	0.00675	7275	13491	1.2521
1.0	0.01290	13901	27392	2.5422
0.9	0.02204	23746	51138	4.746
0.8	0.03430	36962	88100	8.1764
0.7	0.04797	51690	139790	12.974
0.6	0.06238	67210	207000	19.211
0.5	0.07549	81344	288344	26.761
0.4	0.08794	94751	383095	35.554
0.3	0.09914	106824	489919	45.468
0.2	0.10382	111870	601789	55.851
0.1	0.11237	121081	722870	67.088
0.0	0.11398	122813	845683	78.486
-0.1	0.10457	112670	958353	88.943
-0.2	0.07167	77219	1035572	96.109
-0.3	0.03074	33123	1068695	99.183
-0.4	0.00695	7484	1076179	99.878
-0.5	0.00102	1102	1077281	99.98
-0.6	0.00018	190	1077471	99.998
-0.7	0.00002	24	1077495	100
-0.8	0.00000	2	1077497	100

Station Information	
Station no.	208425
Station name	Harrington
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	470255
Northing	6473391

Summary Statistics	
Time interval (mins)	15
Start of record	22/07/1987
Highest water level recorded (m)	1.821
Date recorded	02/04/2022
Lowest water level recorded (m)	-0.873
Date recorded	28/09/2011







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208425

NSW GOVERNMENT

Harrington (208425)
FREQUENCY DISTRIBUTION ANALYSIS

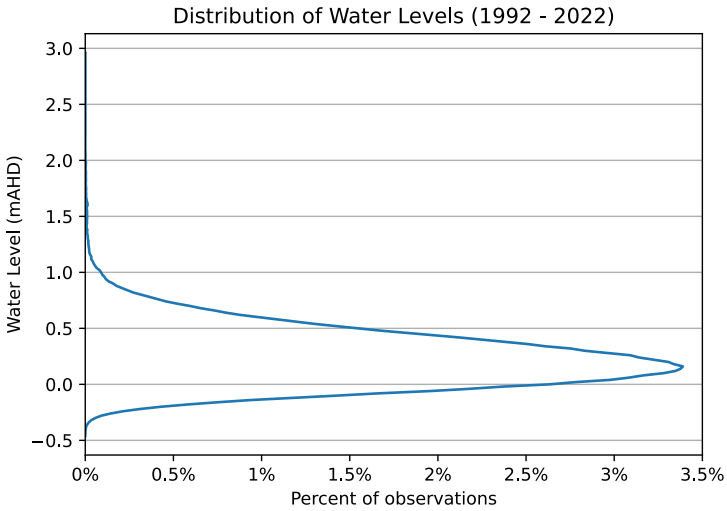
Manly Hydraulics Laboratory

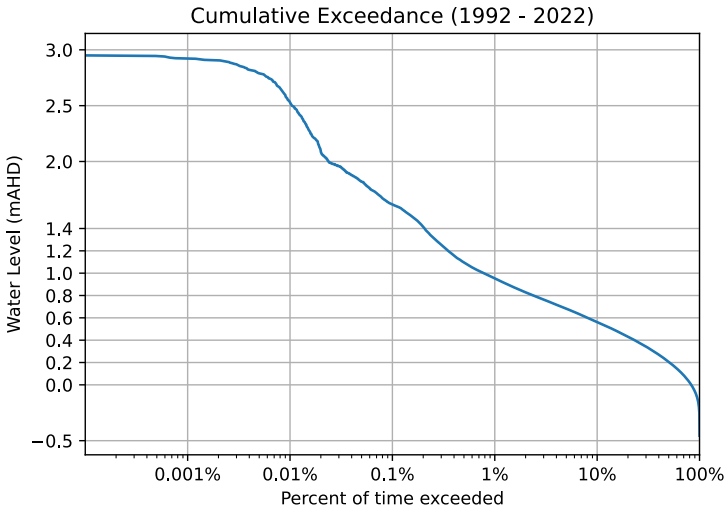
MHL2971
Figure
A108

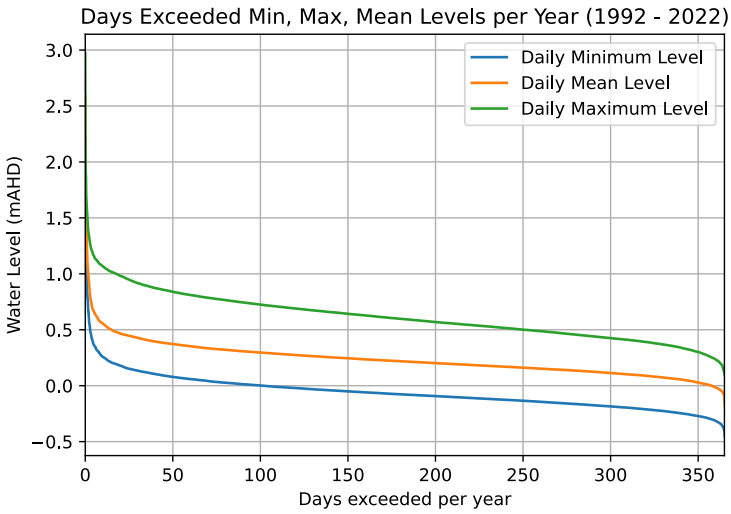
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.0	0.00002	23	23	0.0022241
2.9	0.00003	27	50	0.0048351
2.8	0.00003	26	76	0.0073493
2.7	0.00002	16	92	0.0088965
2.6	0.00002	16	108	0.010444
2.5	0.00003	27	135	0.013055
2.4	0.00002	20	155	0.014989
2.3	0.00003	31	186	0.017986
2.2	0.00002	21	207	0.020017
2.1	0.00004	39	246	0.023788
2.0	0.00012	124	370	0.035779
1.9	0.00018	182	552	0.053379
1.8	0.00020	203	755	0.073009
1.7	0.00035	367	1122	0.1085
1.6	0.00050	522	1644	0.15898
1.5	0.00047	491	2135	0.20646
1.4	0.00056	578	2713	0.26235
1.3	0.00089	917	3630	0.35102
1.2	0.00139	1440	5070	0.49027
1.1	0.00289	2985	8055	0.77893
1.0	0.00543	5619	13674	1.3223
0.9	0.01052	10881	24555	2.3745
0.8	0.02079	21497	46052	4.4533
0.7	0.03654	37791	83843	8.1077
0.6	0.06001	62059	145902	14.109
0.5	0.09098	94084	239986	23.207
0.4	0.12482	129074	369060	35.688
0.3	0.15240	157601	526661	50.929
0.2	0.16761	173325	699986	67.689
0.1	0.15287	158087	858073	82.977
0.0	0.10804	111721	969794	93.78
-0.1	0.04898	50648	1020442	98.678
-0.2	0.01192	12328	1032770	99.87
-0.3	0.00126	1305	1034075	99.996
-0.4	0.00004	40	1034115	100

Station Information	
Station no.	208404
Station name	Croki
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	461590
Northing	6473115

Summary Statistics	
Time interval (mins)	15
Start of record	01/01/1992
Highest water level recorded (m)	2.966
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.482
Date recorded	03/09/2013







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208404

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Croki (208404)
FREQUENCY DISTRIBUTION ANALYSIS

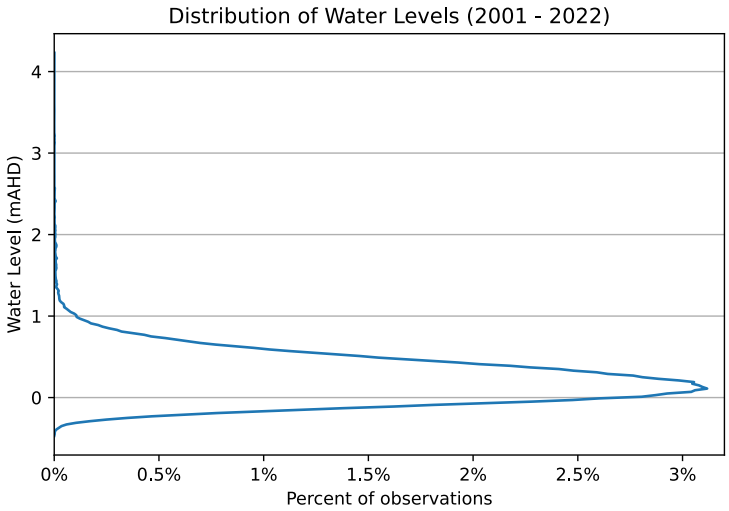
Manly Hydraulics Laboratory

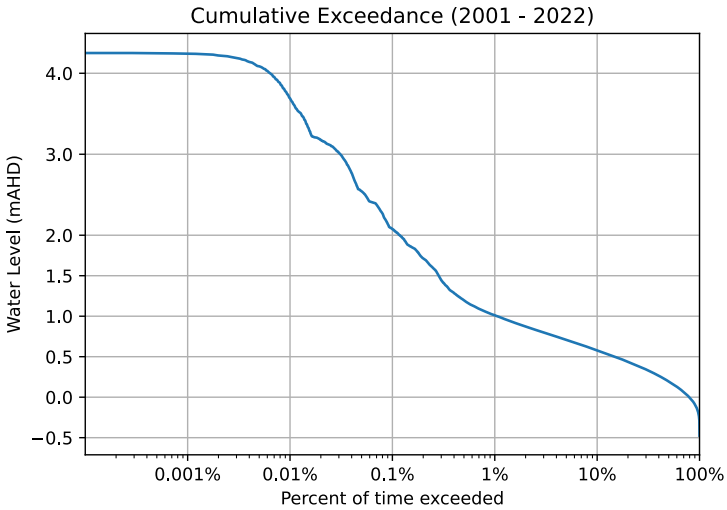
MHL2971
Figure
A109

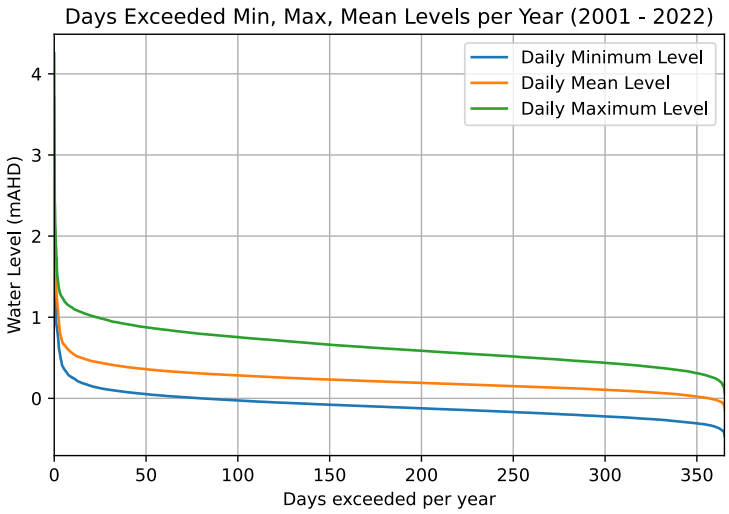
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00005	33	33	0.0047122
4.1	0.00003	21	54	0.0077108
3.9	0.00002	15	69	0.0098528
3.7	0.00003	21	90	0.012851
3.5	0.00003	18	108	0.015422
3.3	0.00010	70	178	0.025417
3.1	0.00010	69	247	0.03527
2.9	0.00007	46	293	0.041838
2.7	0.00012	87	380	0.054262
2.5	0.00023	158	538	0.076823
2.3	0.00017	116	654	0.093387
2.1	0.00044	309	963	0.13751
1.9	0.00069	481	1444	0.20619
1.7	0.00078	545	1989	0.28402
1.5	0.00105	736	2725	0.38911
1.3	0.00291	2038	4763	0.68013
1.1	0.01052	7369	12132	1.7324
0.9	0.03503	24535	36667	5.2358
0.7	0.09655	67618	104285	14.891
0.5	0.20374	142680	246965	35.265
0.3	0.29246	204815	451780	64.511
0.1	0.26568	186062	637842	91.08
-0.1	0.08608	60282	698124	99.688
-0.3	0.00312	2188	700312	100

Station Information	
Station no.	208430
Station name	Dumaresq Island
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	454329
Northing	6470475

Summary Statistics	
Time interval (mins)	15
Start of record	12/08/2001
Highest water level recorded (m)	4.249
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.490
Date recorded	03/09/2013







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208430

NSW GOVERNMENT

Dumaresq Island (208430)
FREQUENCY DISTRIBUTION ANALYSIS

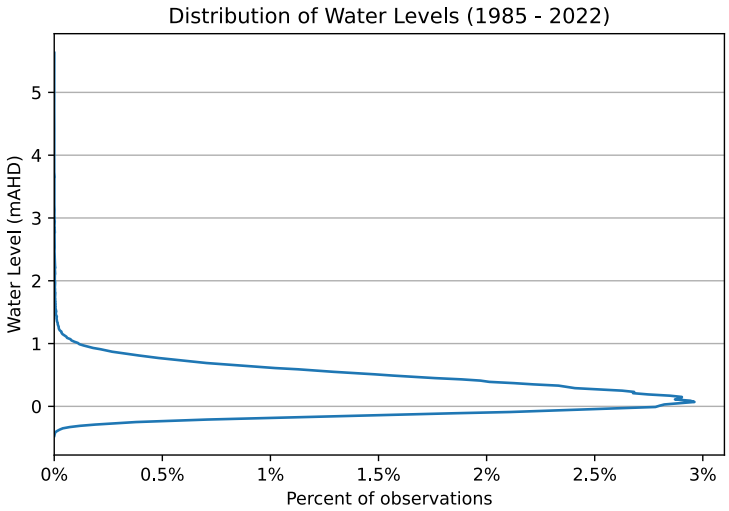
Manly Hydraulics Laboratory

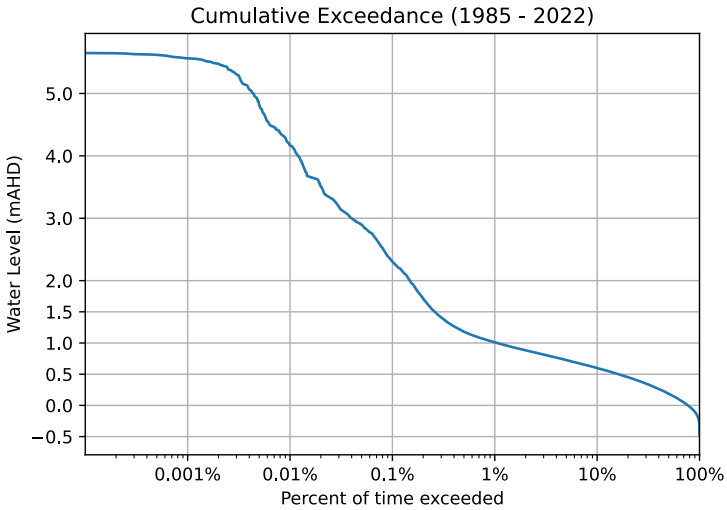
MHL2971
Figure
A110

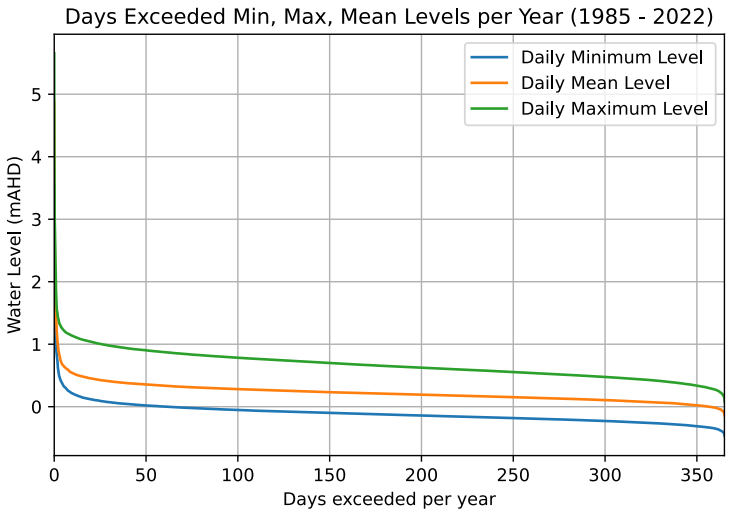
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.7	0.00002	22	22	0.0017714
5.5	0.00001	16	38	0.0030598
5.3	0.00001	11	49	0.0039455
5.1	0.00001	11	60	0.0048312
4.9	0.00001	7	67	0.0053949
4.7	0.00001	12	79	0.0063611
4.5	0.00002	31	110	0.0088572
4.3	0.00002	28	138	0.011112
4.1	0.00002	23	161	0.012964
3.9	0.00002	21	182	0.014655
3.7	0.00006	70	252	0.020291
3.5	0.00006	76	328	0.026411
3.3	0.00008	94	422	0.03398
3.1	0.00016	195	617	0.049681
2.9	0.00017	213	830	0.066832
2.7	0.00015	187	1017	0.081889
2.5	0.00019	233	1250	0.10065
2.3	0.00034	421	1671	0.13455
2.1	0.00030	377	2048	0.16491
1.9	0.00038	470	2518	0.20275
1.7	0.00057	708	3226	0.25976
1.5	0.00111	1374	4600	0.37039
1.3	0.00295	3669	8269	0.66582
1.1	0.01139	14147	22416	1.8049
0.9	0.04025	49982	72398	5.8295
0.7	0.10386	128989	201387	16.216
0.5	0.19477	241889	443276	35.693
0.3	0.26935	334514	777790	62.628
0.1	0.27028	335667	1113457	89.656
-0.1	0.09978	123918	1237375	99.634
-0.3	0.00366	4546	1241921	100

Station Information	
Station no.	208410
Station name	Taree
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	448687
Northing	6468633

Summary Statistics	
Time interval (mins)	15
Start of record	25/09/1985
Highest water level recorded (m)	5.651
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.492
Date recorded	03/09/2013







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208410

NSW GOVERNMENT

Taree (208410)
FREQUENCY DISTRIBUTION ANALYSIS

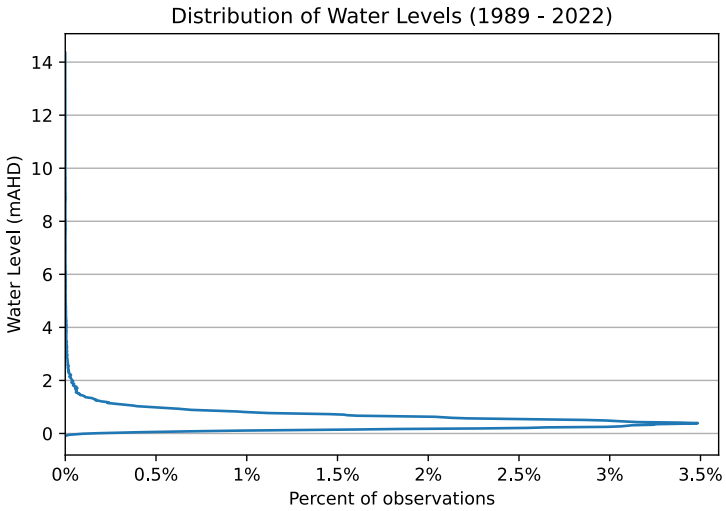
Manly Hydraulics Laboratory

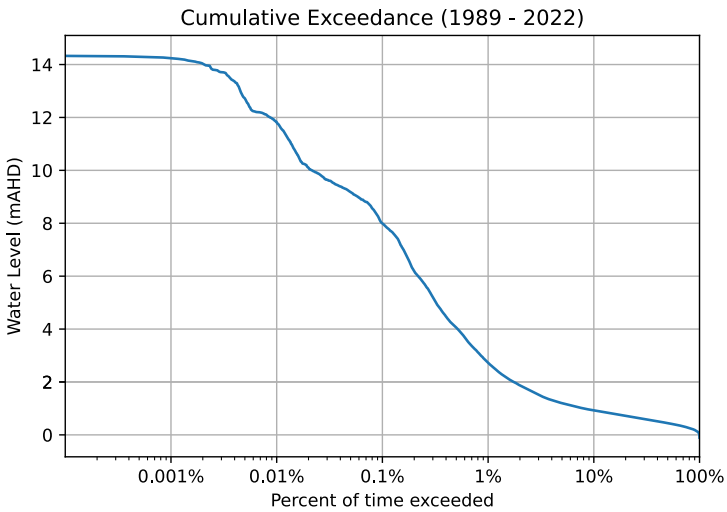
MHL2971
Figure
A111

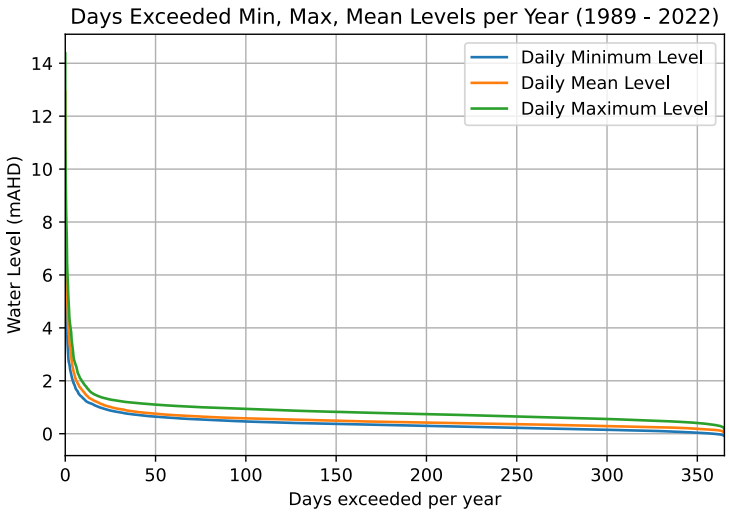
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
14.4	0.00002	27	27	0.0024123
13.9	0.00002	17	44	0.0039311
13.4	0.00001	8	52	0.0046459
12.9	0.00001	10	62	0.0055393
12.4	0.00004	44	106	0.0094705
11.9	0.00003	29	135	0.012061
11.4	0.00002	24	159	0.014206
10.9	0.00003	28	187	0.016707
10.4	0.00007	82	269	0.024034
9.9	0.00015	172	441	0.039401
9.4	0.00024	264	705	0.062988
8.9	0.00023	259	964	0.086128
8.4	0.00019	218	1182	0.1056
7.9	0.00035	389	1571	0.14036
7.4	0.00023	261	1832	0.16368
6.9	0.00023	262	2094	0.18709
6.4	0.00042	469	2563	0.22899
5.9	0.00053	591	3154	0.28179
5.4	0.00050	563	3717	0.33209
4.9	0.00080	900	4617	0.4125
4.4	0.00131	1463	6080	0.54321
3.9	0.00143	1605	7685	0.68661
3.4	0.00216	2417	10102	0.90255
2.9	0.00339	3789	13891	1.2411
2.4	0.00696	7788	21679	1.9369
1.9	0.01540	17238	38917	3.477
1.4	0.07239	81024	119941	10.716
0.9	0.46271	517892	637833	56.987
0.4	0.43013	481432	1119265	100
-0.1	0.00000	4	1119269	100

Station Information	
Station no.	208400
Station name	Wingham
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	440559
Northing	6473212

Summary Statistics	
Time interval (mins)	15
Start of record	07/07/1989
Highest water level recorded (m)	14.368
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.111
Date recorded	31/12/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208400

NSW GOVERNMENT

Wingham (208400)
FREQUENCY DISTRIBUTION ANALYSIS

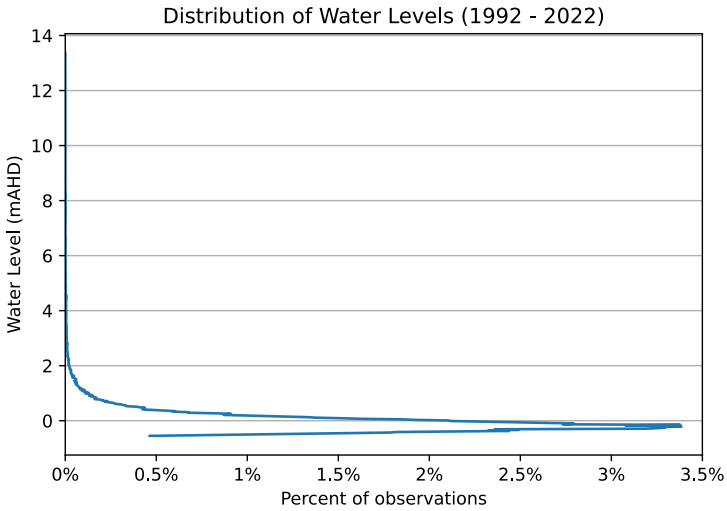
Manly Hydraulics Laboratory

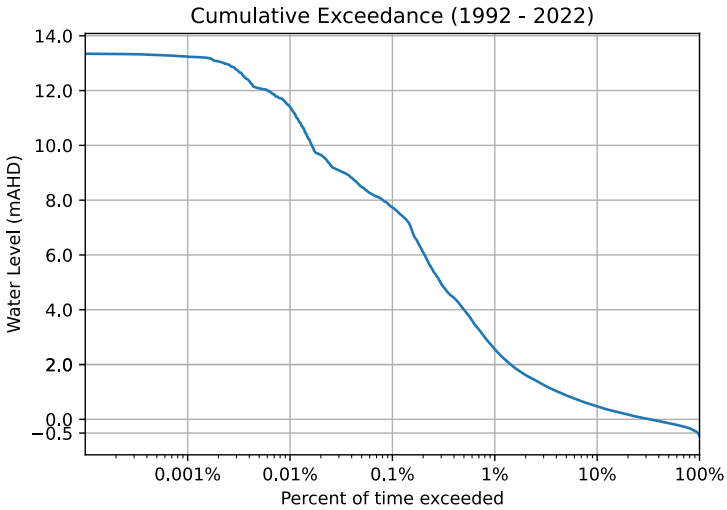
MHL2971
Figure
A112

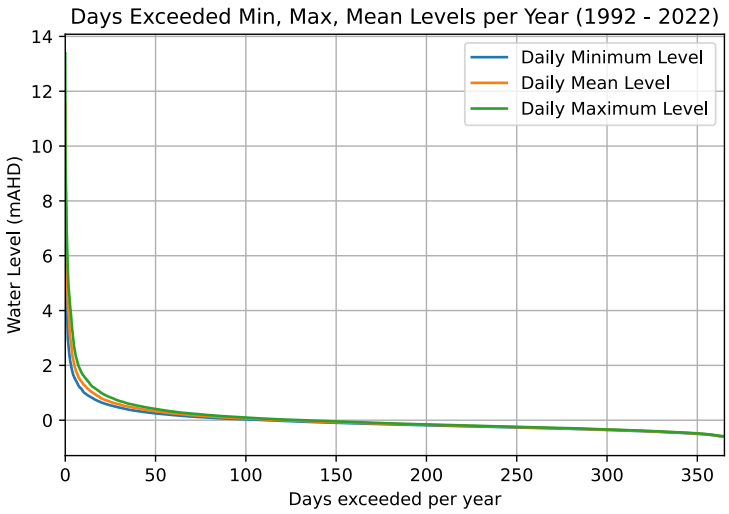
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
13.4	0.00002	24	24	0.00228
13.0	0.00001	12	36	0.00342
12.6	0.00001	10	46	0.00437
12.2	0.00003	30	76	0.00722
11.8	0.00003	30	106	0.01007
11.4	0.00002	17	123	0.011685
11.0	0.00002	22	145	0.013775
10.6	0.00002	19	164	0.01558
10.2	0.00002	18	182	0.01729
9.8	0.00006	66	248	0.02356
9.4	0.00010	106	354	0.03363
9.0	0.00012	131	485	0.046075
8.6	0.00019	197	682	0.06479
8.2	0.00030	316	998	0.09481
7.8	0.00033	343	1341	0.12739
7.4	0.00024	252	1593	0.15133
7.0	0.00016	171	1764	0.16758
6.6	0.00026	269	2033	0.19313
6.2	0.00026	276	2309	0.21935
5.8	0.00032	340	2649	0.25165
5.4	0.00043	449	3098	0.29431
5.0	0.00061	640	3738	0.35511
4.6	0.00100	1051	4789	0.45495
4.2	0.00098	1031	5820	0.5529
3.8	0.00105	1108	6928	0.65816
3.4	0.00139	1458	8386	0.79667
3.0	0.00184	1938	10324	0.98078
2.6	0.00263	2769	13093	1.2438
2.2	0.00445	4689	17782	1.6893
1.8	0.00872	9176	26958	2.561
1.4	0.01626	17112	44070	4.1866
1.0	0.03647	38394	82464	7.8341
0.6	0.10557	111126	193590	18.391
0.2	0.41189	433574	627164	59.58
-0.2	0.40420	425470	1052634	100

Station Information	
Station no.	208440
Station name	Mount George
Datum	Local Water Resources Datum (1992)
MGA zone	56
Easting	419229
Northing	6472262

Summary Statistics	
Time interval (mins)	15
Start of record	01/01/1992
Highest water level recorded (m)	13.386
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.573
Date recorded	07/11/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208440

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Mount George (208440)
FREQUENCY DISTRIBUTION ANALYSIS

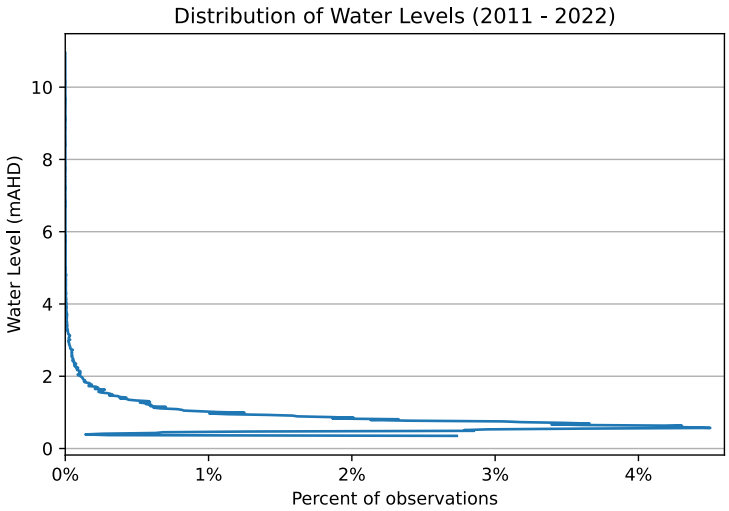
Manly Hydraulics Laboratory

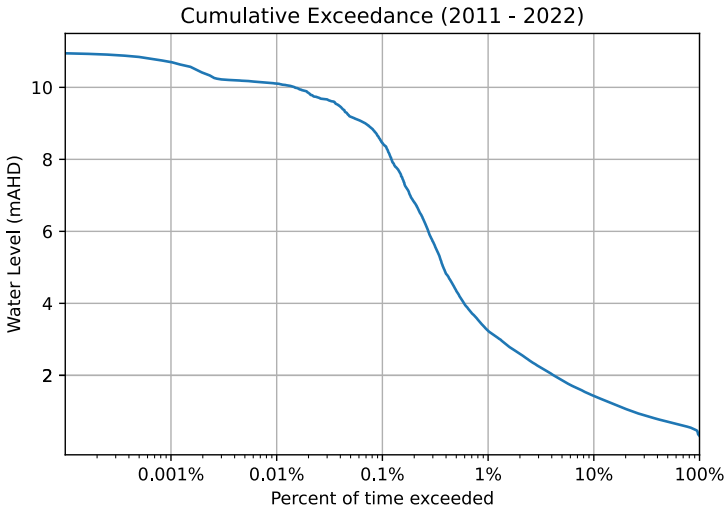
MHL2971
Figure
A113

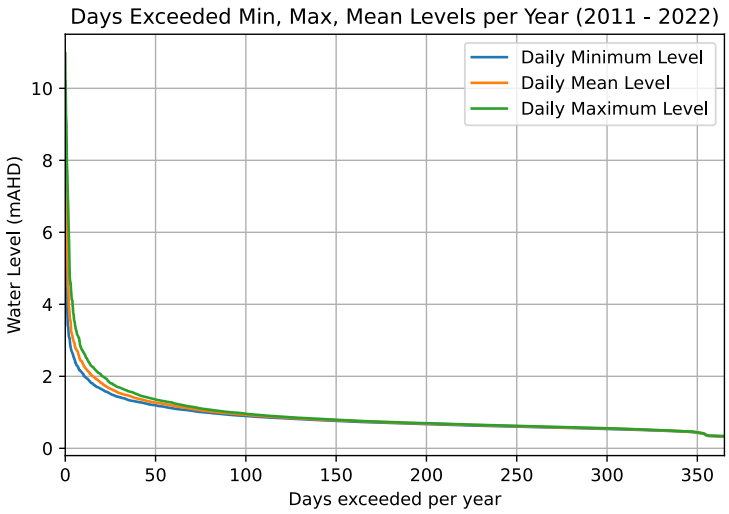
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
11.1	0.00001	4	4	0.0010343
10.7	0.00002	6	10	0.0025857
10.3	0.00016	61	71	0.018359
9.9	0.00020	78	149	0.038528
9.5	0.00019	75	224	0.057921
9.1	0.00030	117	341	0.088174
8.7	0.00022	84	425	0.10989
8.3	0.00017	65	490	0.1267
7.9	0.00027	106	596	0.15411
7.5	0.00024	92	688	0.1779
7.1	0.00033	129	817	0.21126
6.7	0.00036	139	956	0.2472
6.3	0.00033	126	1082	0.27978
5.9	0.00045	175	1257	0.32503
5.5	0.00041	159	1416	0.36614
5.1	0.00060	233	1649	0.42639
4.7	0.00085	327	1976	0.51094
4.3	0.00117	452	2428	0.62782
3.9	0.00195	755	3183	0.82304
3.5	0.00336	1299	4482	1.1589
3.1	0.00609	2357	6839	1.7684
2.7	0.01059	4097	10936	2.8278
2.3	0.01911	7392	18328	4.7392
1.9	0.04055	15682	34010	8.7941
1.5	0.09950	38480	72490	18.744
1.1	0.33253	128601	201091	51.997
0.7	0.48003	185644	386735	100

Station Information	
Station no.	208436
Station name	Ashlea Bridge Downstream
Datum	Assumed Datum (2011)
MGA zone	56
Easting	433875
Northing	6476673

Summary Statistics	
Time interval (mins)	15
Start of record	06/04/2011
Highest water level recorded (m)	10.970
Date recorded	19/03/2021
Lowest water level recorded (m)	0.330
Date recorded	19/10/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208436

NSW GOVERNMENT

Ashlea Bridge Downstream (208436) FREQUENCY DISTRIBUTION ANALYSIS

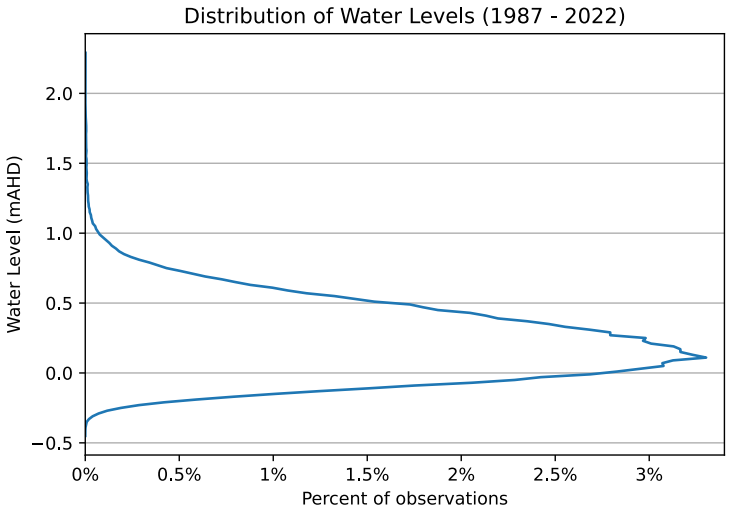
Manly Hydraulics Laboratory

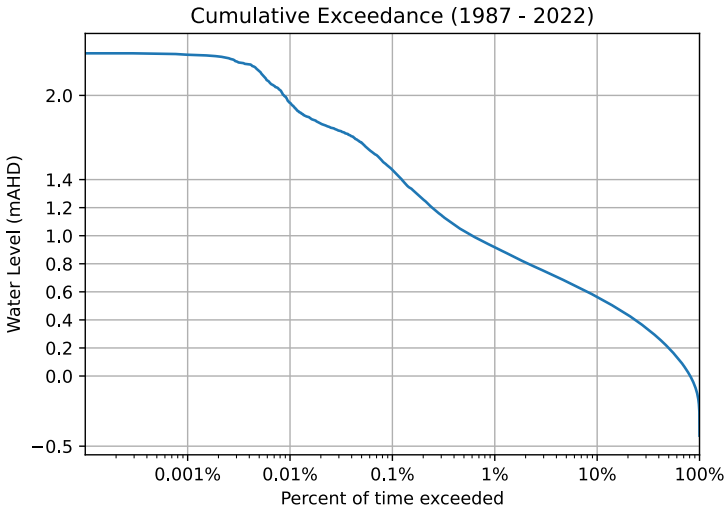
MHL2971
Figure
A114

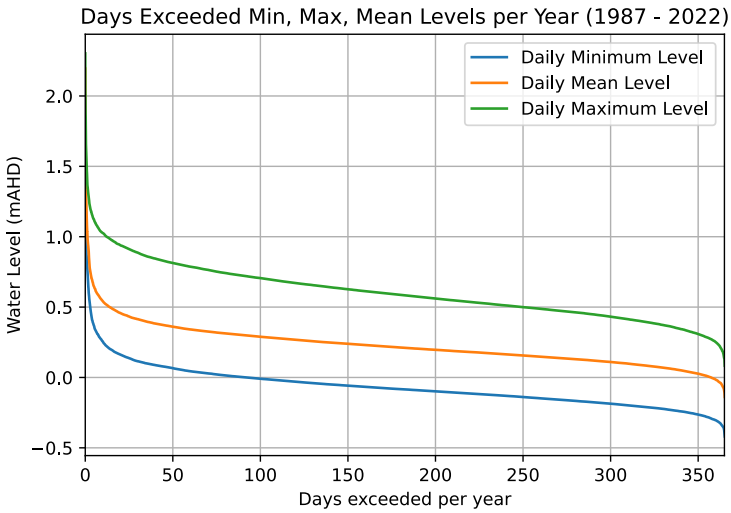
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00004	51	51	0.0042471
2.2	0.00002	20	71	0.0059127
2.1	0.00002	30	101	0.008411
2.0	0.00003	33	134	0.011159
1.9	0.00008	102	236	0.019653
1.8	0.00022	263	499	0.041555
1.7	0.00020	245	744	0.061958
1.6	0.00027	326	1070	0.089106
1.5	0.00034	413	1483	0.1235
1.4	0.00048	580	2063	0.1718
1.3	0.00072	864	2927	0.24375
1.2	0.00121	1448	4375	0.36434
1.1	0.00236	2838	7213	0.60068
1.0	0.00519	6237	13450	1.1201
0.9	0.01000	12007	25457	2.12
0.8	0.02092	25116	50573	4.2116
0.7	0.03812	45775	96348	8.0236
0.6	0.06283	75450	171798	14.307
0.5	0.09273	111356	283154	23.58
0.4	0.11967	143707	426861	35.548
0.3	0.14387	172766	599627	49.935
0.2	0.15858	190429	790056	65.793
0.1	0.15303	183760	973816	81.096
0.0	0.11756	141170	1114986	92.852
-0.1	0.05721	68693	1183679	98.573
-0.2	0.01324	15896	1199575	99.897
-0.3	0.00102	1229	1200804	99.999
-0.4	0.00001	7	1200811	100

Station Information	
Station no.	208415
Station name	Farquhar Inlet
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	461745
Northing	6466021

Summary Statistics	
Time interval (mins)	15
Start of record	18/08/1987
Highest water level recorded (m)	2.299
Date recorded	20/03/2021
Lowest water level recorded (m)	-0.470
Date recorded	31/01/1993







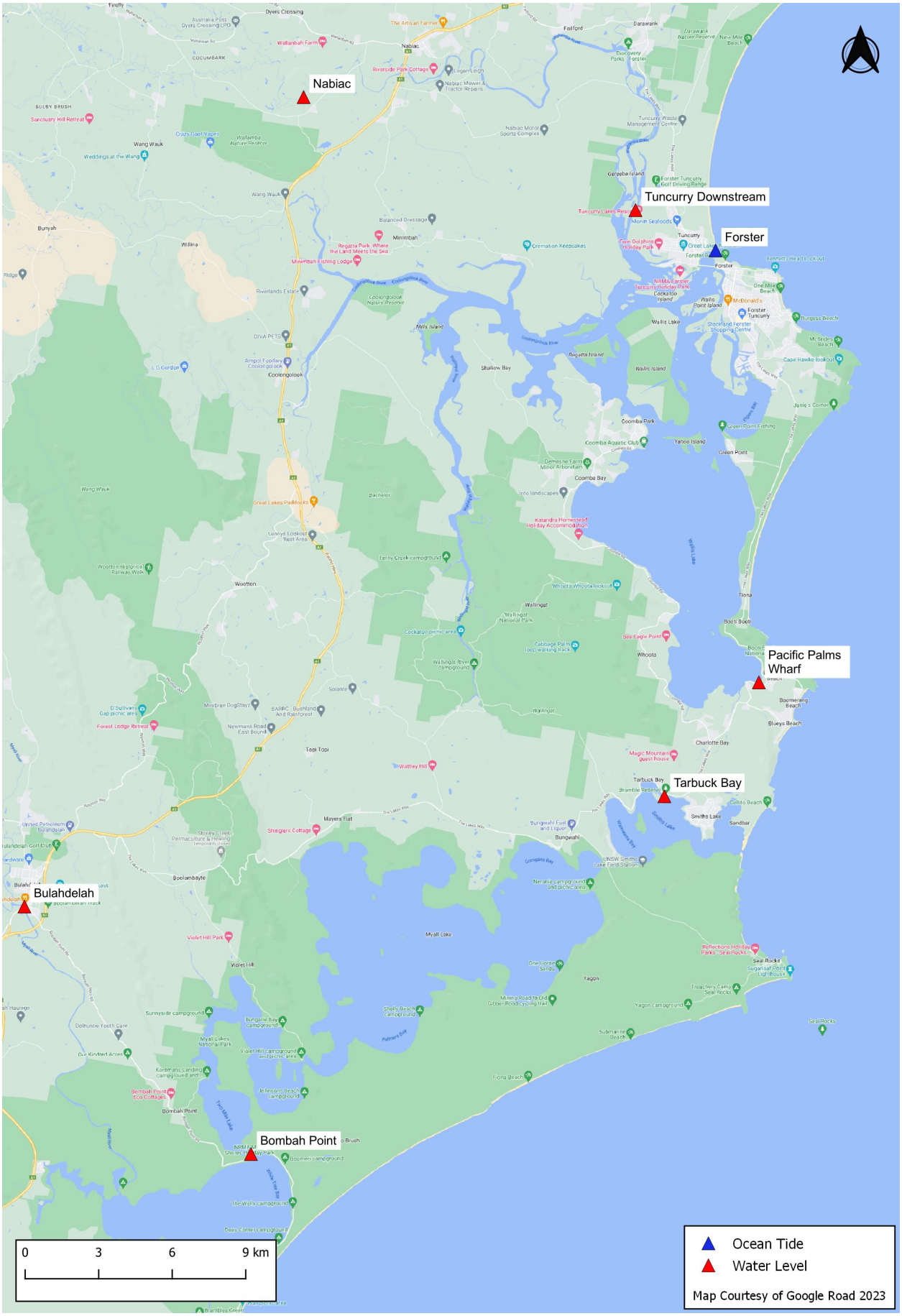
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-208415

NSW GOVERNMENT

Farquhar Inlet (208415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A115



NSW GOVERNMENT

STATION LOCATIONS
GREAT LAKES RIVER REGION

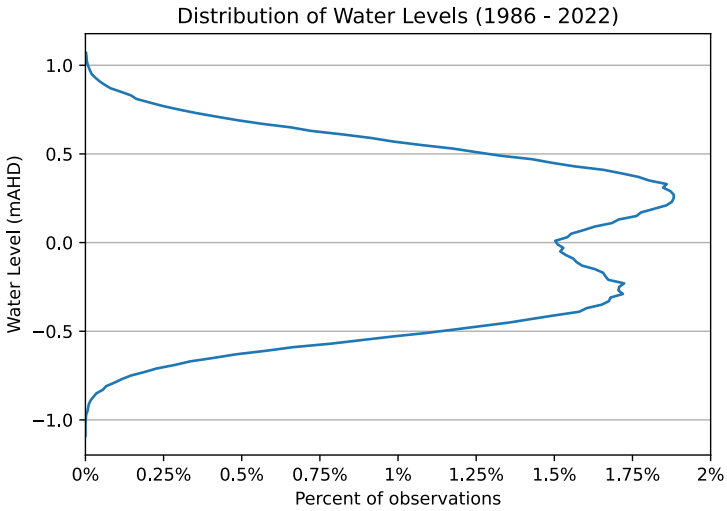
Manly Hydraulics Laboratory

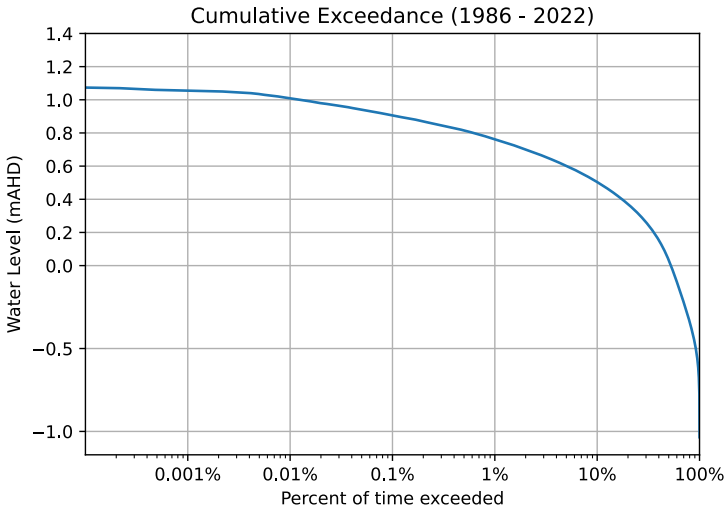
MHL2971
Figure
A116

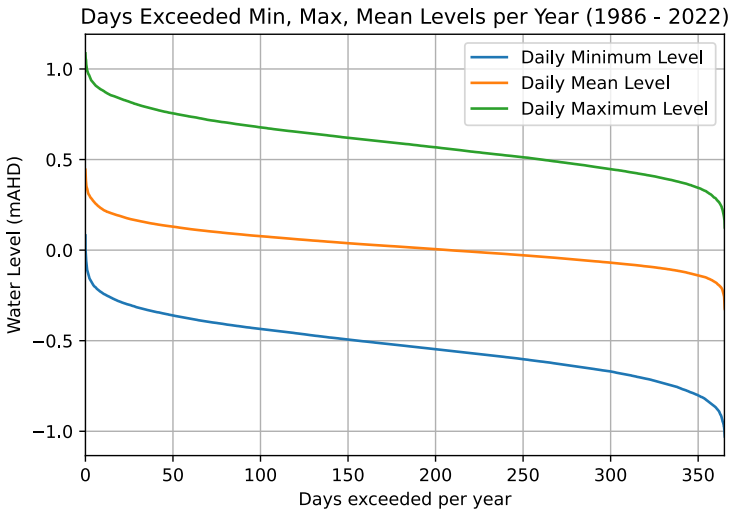
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.1	0.00012	148	148	0.012017
1.0	0.00100	1233	1381	0.11214
0.9	0.00503	6198	7579	0.61541
0.8	0.01396	17195	24774	2.0116
0.7	0.03043	37472	62246	5.0543
0.6	0.05187	63879	126125	10.241
0.5	0.07269	89526	215651	17.511
0.4	0.08910	109733	325384	26.421
0.3	0.09379	115500	440884	35.799
0.2	0.08834	108799	549683	44.634
0.1	0.07903	97329	647012	52.537
0.0	0.07621	93852	740864	60.158
-0.1	0.08066	99331	840195	68.223
-0.2	0.08498	104657	944852	76.721
-0.3	0.08262	101753	1046605	84.984
-0.4	0.06949	85574	1132179	91.932
-0.5	0.04647	57234	1189413	96.579
-0.6	0.02282	28101	1217514	98.861
-0.7	0.00867	10676	1228190	99.728
-0.8	0.00234	2884	1231074	99.962
-0.9	0.00037	453	1231527	99.999
-1.0	0.00001	11	1231538	100

Station Information	
Station no.	209402
Station name	Forster
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	453635
Northing	6440173

Summary Statistics	
Time interval (mins)	15
Start of record	26/03/1986
Highest water level recorded (m)	1.076
Date recorded	04/06/2019
Lowest water level recorded (m)	-1.111
Date recorded	26/03/1990







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209402

NSW GOVERNMENT

Forster (209402)
FREQUENCY DISTRIBUTION ANALYSIS

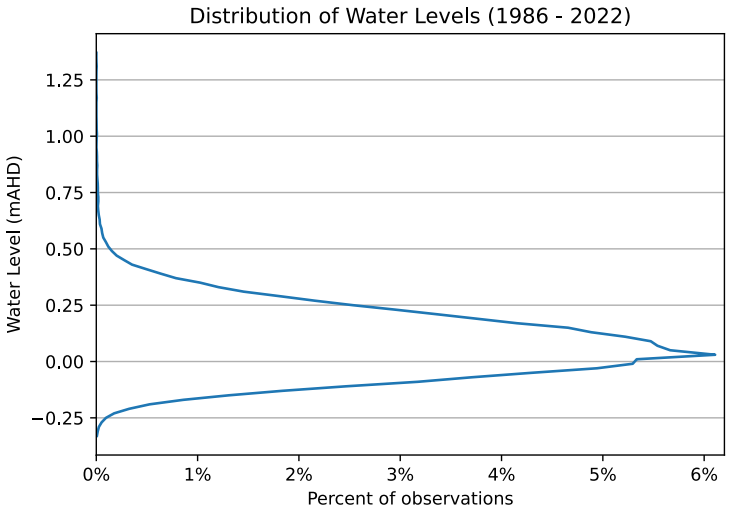
Manly Hydraulics Laboratory

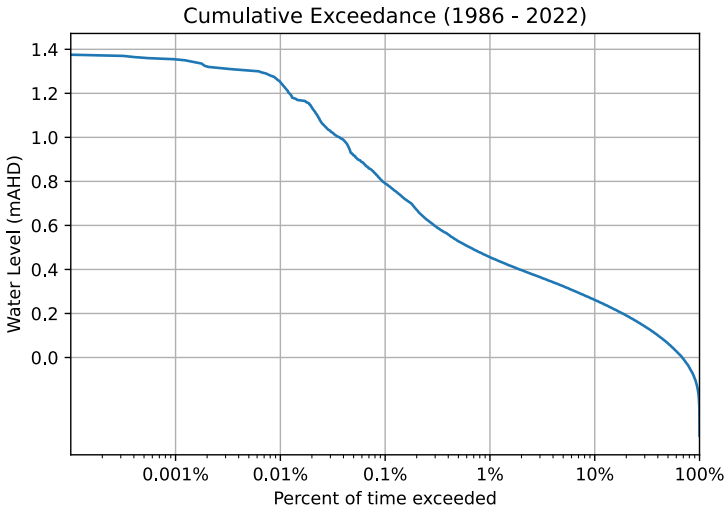
MHL2971
Figure
A117

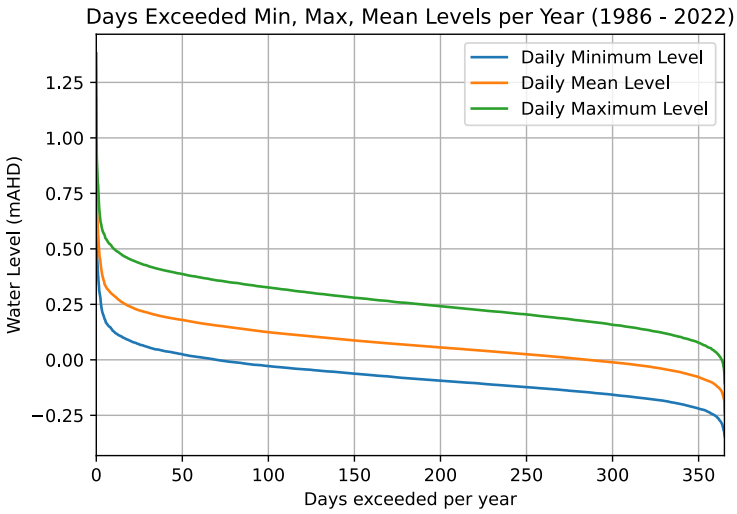
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00006	75	75	0.0062476
1.3	0.00006	71	146	0.012162
1.2	0.00010	124	270	0.022491
1.1	0.00014	171	441	0.036736
1.0	0.00018	216	657	0.054729
0.9	0.00040	476	1133	0.09438
0.8	0.00083	1001	2134	0.17776
0.7	0.00116	1390	3524	0.29355
0.6	0.00351	4211	7735	0.64433
0.5	0.01271	15262	22997	1.9157
0.4	0.04622	55490	78487	6.538
0.3	0.11869	142480	220967	18.407
0.2	0.21710	260621	481588	40.117
0.1	0.28186	338361	819949	68.303
0.0	0.22499	270088	1090037	90.801
-0.1	0.08275	99336	1189373	99.076
-0.2	0.00892	10707	1200080	99.968
-0.3	0.00032	385	1200465	100

Station Information	
Station no.	209401D
Station name	Tuncurry Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	450368
Northing	6441819

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1986
Highest water level recorded (m)	1.380
Date recorded	22/03/2021
Lowest water level recorded (m)	-0.347
Date recorded	19/10/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209401D

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Tuncurry Downstream (209401D)
FREQUENCY DISTRIBUTION ANALYSIS

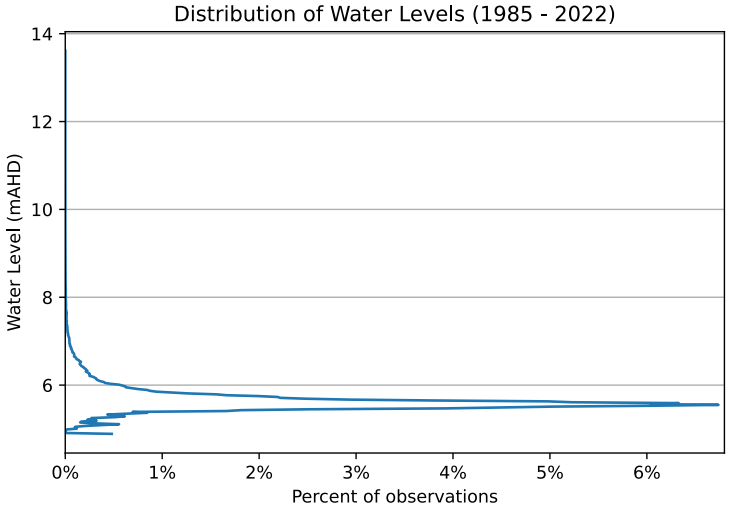
Manly Hydraulics Laboratory

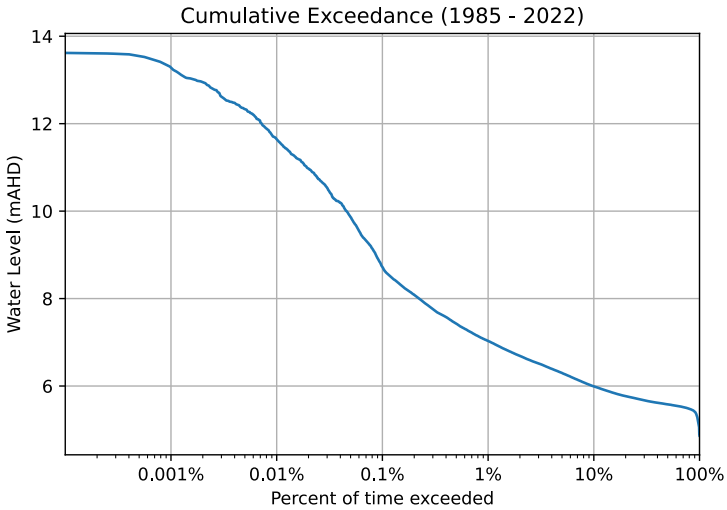
MHL2971
Figure
A118

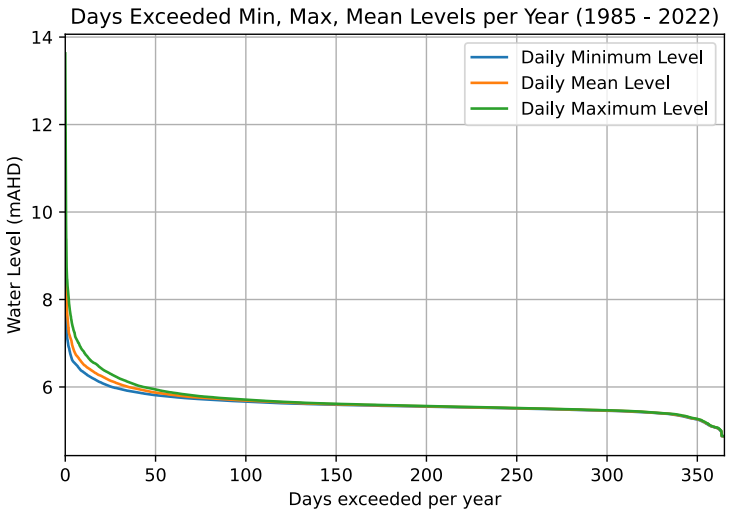
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
13.6	0.00001	9	9	0.00073533
13.3	0.00001	8	17	0.001389
13.0	0.00001	15	32	0.0026145
12.7	0.00002	19	51	0.0041669
12.4	0.00002	28	79	0.0064546
12.1	0.00002	24	103	0.0084155
11.8	0.00003	33	136	0.011112
11.5	0.00004	54	190	0.015524
11.2	0.00006	70	260	0.021243
10.9	0.00007	86	346	0.028269
10.6	0.00006	72	418	0.034152
10.3	0.00012	141	559	0.045672
10.0	0.00009	110	669	0.05466
9.7	0.00011	129	798	0.065199
9.4	0.00017	206	1004	0.08203
9.1	0.00014	169	1173	0.095838
8.8	0.00023	287	1460	0.11929
8.5	0.00051	624	2084	0.17027
8.2	0.00080	982	3066	0.2505
7.9	0.00134	1641	4707	0.38458
7.6	0.00227	2776	7483	0.61139
7.3	0.00454	5556	13039	1.0653
7.0	0.00888	10867	23906	1.9532
6.7	0.01978	24207	48113	3.931
6.4	0.03789	46380	94493	7.7204
6.1	0.09993	122305	216798	17.713
5.8	0.57441	703044	919842	75.154
5.5	0.21800	266814	1186656	96.954
5.2	0.02564	31383	1218039	99.518
4.9	0.00482	5896	1223935	100

Station Information	
Station no.	209404
Station name	Nabiac
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	436831
Northing	6446432

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1985
Highest water level recorded (m)	13.625
Date recorded	21/03/2021
Lowest water level recorded (m)	4.866
Date recorded	01/12/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209404

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Nabiac (209404)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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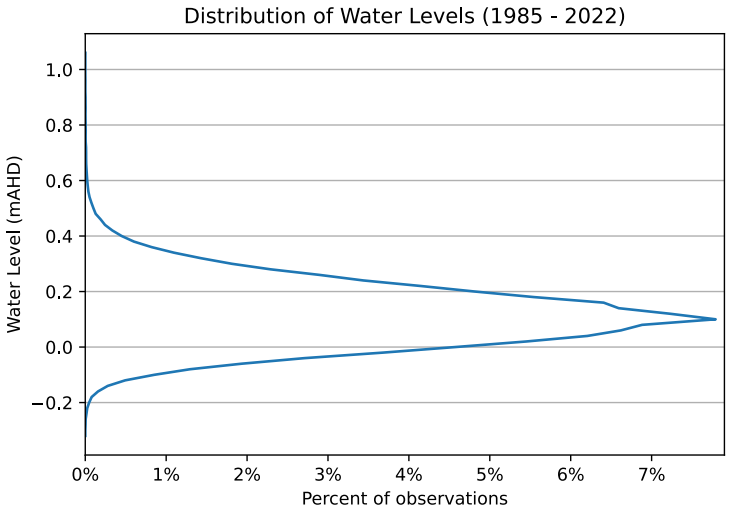
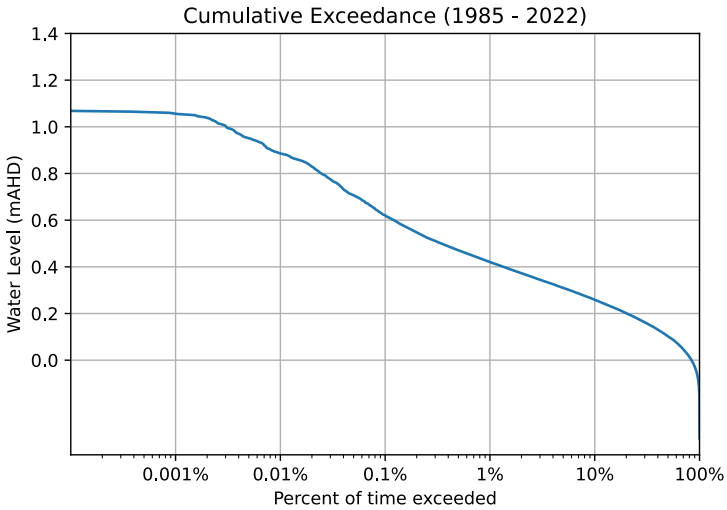
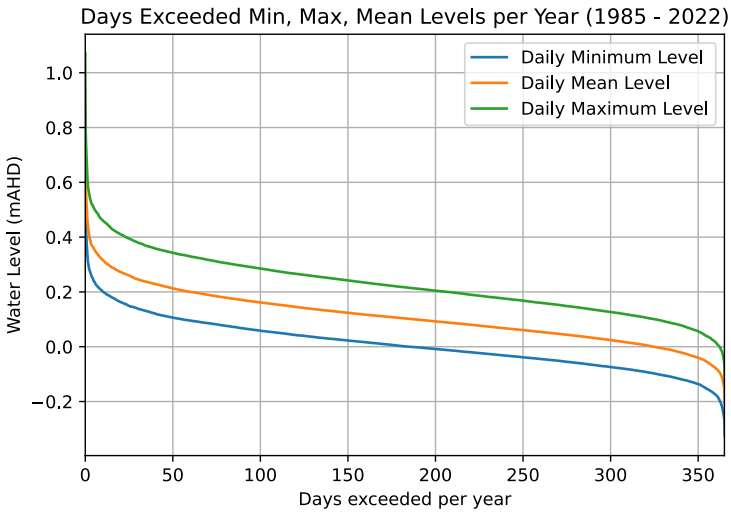
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.1	0.00003	38	38	0.0031288
1.0	0.00005	62	100	0.0082338
0.9	0.00016	199	299	0.024619
0.8	0.00029	348	647	0.053273
0.7	0.00067	814	1461	0.1203
0.6	0.00222	2699	4160	0.34253
0.5	0.00999	12127	16287	1.341
0.4	0.04400	53437	69724	5.7409
0.3	0.14578	177056	246780	20.319
0.2	0.30589	371511	618291	50.909
0.1	0.32947	400147	1018438	83.856
0.0	0.14189	172323	1190761	98.045
-0.1	0.01860	22584	1213345	99.904
-0.2	0.00095	1155	1214500	99.999
-0.3	0.00001	9	1214509	100

Station Information	
Station no.	209406
Station name	Pacific Palms Wharf
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	455401
Northing	6422551

Summary Statistics	
Time interval (mins)	15
Start of record	16/08/1985
Highest water level recorded (m)	1.067
Date recorded	22/03/2021
Lowest water level recorded (m)	-0.338
Date recorded	23/09/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209406

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Pacific Palms Wharf (209406)
FREQUENCY DISTRIBUTION ANALYSIS

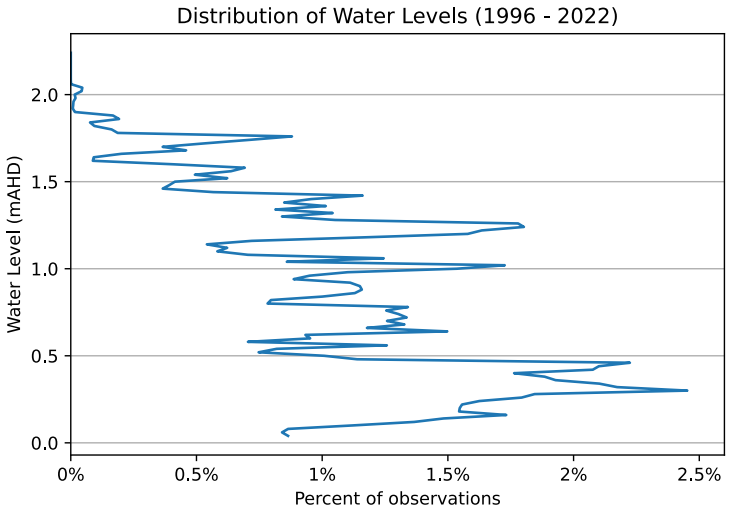
Manly Hydraulics Laboratory

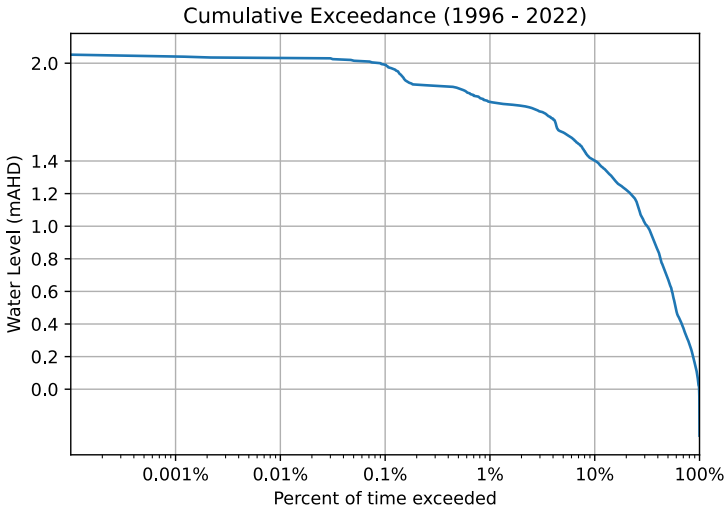
MHL2971
Figure
A120

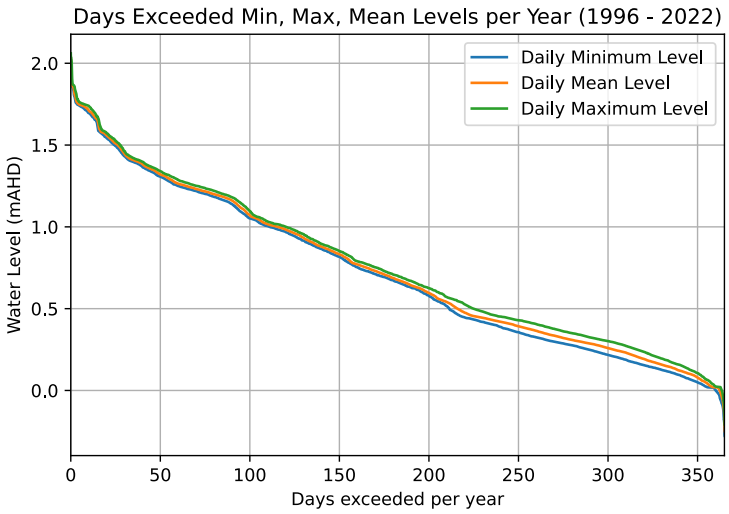
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00090	806	806	0.090467
2.0	0.00063	560	1366	0.15332
1.9	0.00547	4873	6239	0.70028
1.8	0.02471	22017	28256	3.1715
1.7	0.01205	10732	38988	4.3761
1.6	0.02851	25400	64388	7.227
1.5	0.02899	25830	90218	10.126
1.4	0.04675	41648	131866	14.801
1.3	0.07108	63327	195193	21.909
1.2	0.04624	41195	236388	26.533
1.1	0.05117	45592	281980	31.65
1.0	0.05584	49747	331727	37.234
0.9	0.05235	46638	378365	42.468
0.8	0.06017	53610	431975	48.486
0.7	0.06194	55183	487158	54.679
0.6	0.04481	39919	527077	59.16
0.5	0.08548	76155	603232	67.708
0.4	0.09852	87777	691009	77.56
0.3	0.09272	82608	773617	86.832
0.2	0.07673	68360	841977	94.505
0.1	0.04660	41516	883493	99.165
0.0	0.00644	5741	889234	99.809
-0.1	0.00156	1387	890621	99.965
-0.2	0.00035	314	890935	100

Station Information	
Station no.	209465
Station name	Tarbuck Bay
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	451548
Northing	6417906

Summary Statistics	
Time interval (mins)	15
Start of record	16/05/1996
Highest water level recorded (m)	2.250
Date recorded	28/03/2005
Lowest water level recorded (m)	0.020
Date recorded	15/04/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209465

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Tarbuck Bay (209465)
FREQUENCY DISTRIBUTION ANALYSIS

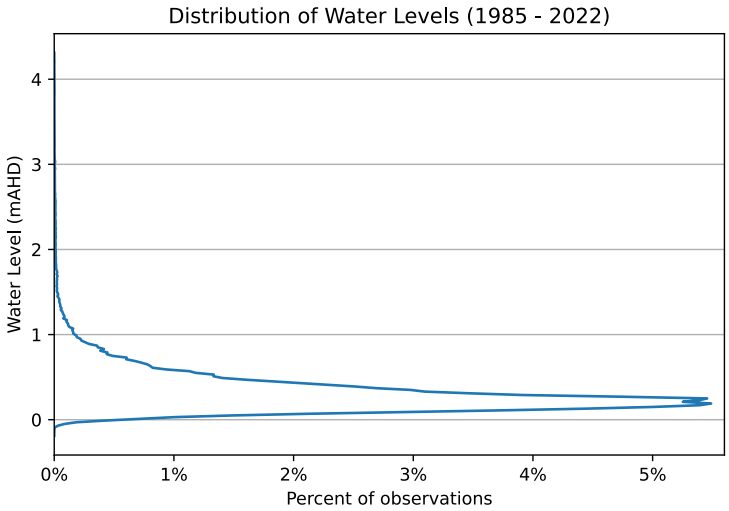
Manly Hydraulics Laboratory

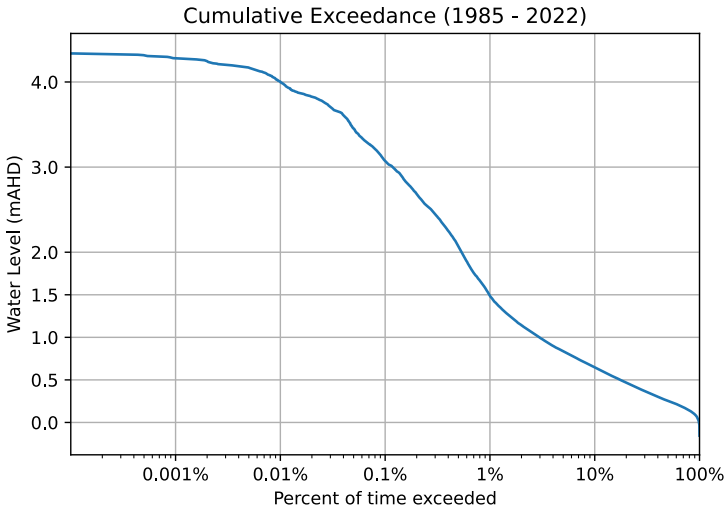
MHL2971
Figure
A121

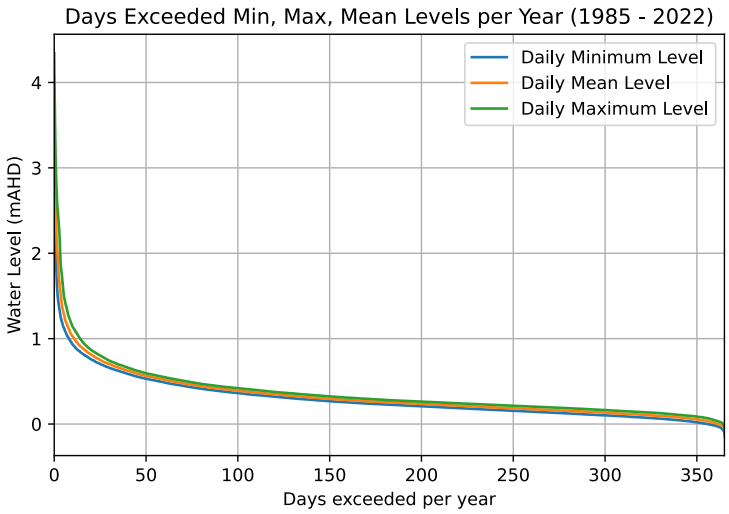
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00007	83	83	0.0066344
4.1	0.00006	71	154	0.01231
3.9	0.00018	219	373	0.029815
3.7	0.00016	203	576	0.046041
3.5	0.00018	229	805	0.064346
3.3	0.00031	383	1188	0.09496
3.1	0.00047	591	1779	0.1422
2.9	0.00052	656	2435	0.19464
2.7	0.00080	1003	3438	0.27481
2.5	0.00098	1224	4662	0.37265
2.3	0.00112	1400	6062	0.48455
2.1	0.00110	1370	7432	0.59406
1.9	0.00167	2086	9518	0.7608
1.7	0.00225	2820	12338	0.98621
1.5	0.00399	4990	17328	1.3851
1.3	0.00842	10539	27867	2.2275
1.1	0.01750	21889	49756	3.9771
0.9	0.04236	52996	102752	8.2133
0.7	0.09364	117146	219898	17.577
0.5	0.22755	284677	504575	40.332
0.3	0.48855	611204	1115779	89.187
0.1	0.10809	135224	1251003	99.996
-0.1	0.00003	37	1251040	99.999

Station Information	
Station no.	209460
Station name	Bulahdelah
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	425442
Northing	6413407

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1985
Highest water level recorded (m)	4.335
Date recorded	22/03/2021
Lowest water level recorded (m)	-0.210
Date recorded	18/09/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209460

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Bulahdelah (209460)
FREQUENCY DISTRIBUTION ANALYSIS

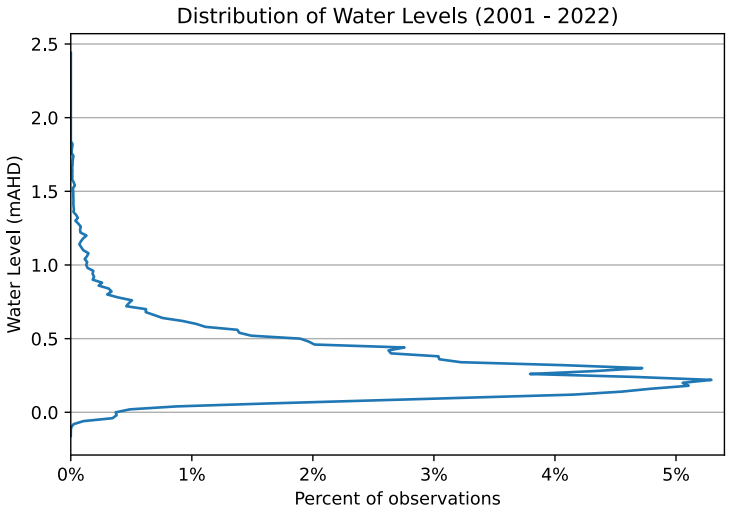
Manly Hydraulics Laboratory

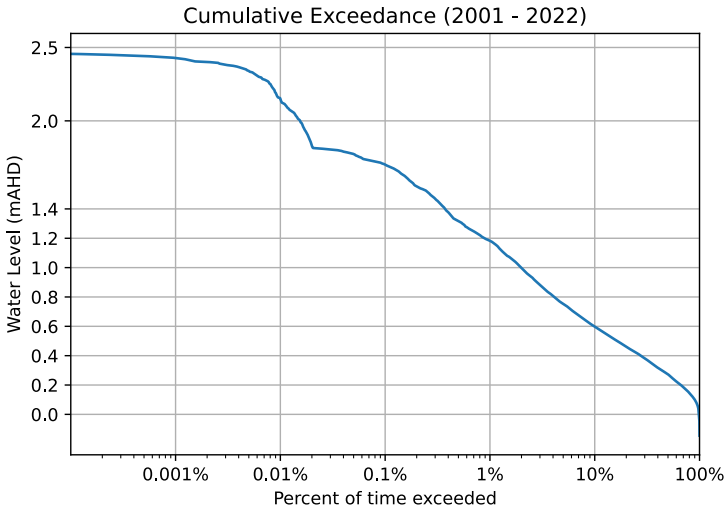
MHL2971
Figure
A122

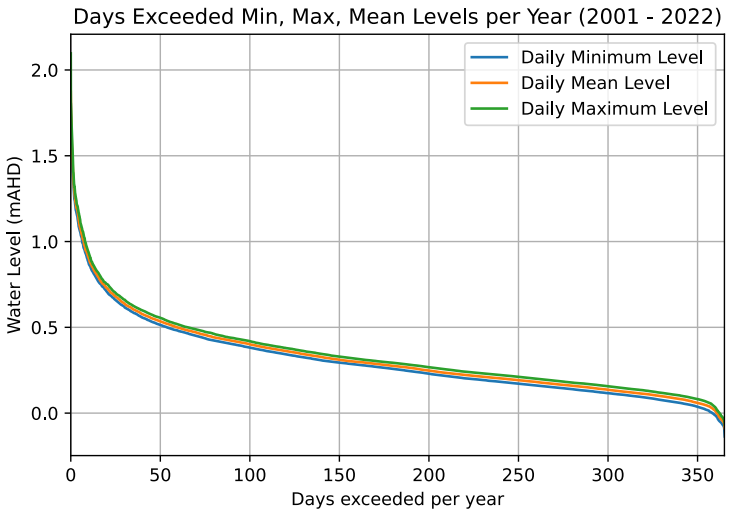
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00002	15	15	0.0021902
2.4	0.00004	28	43	0.0062785
2.3	0.00003	18	61	0.0089067
2.2	0.00003	18	79	0.011535
2.1	0.00004	27	106	0.015477
2.0	0.00003	20	126	0.018397
1.9	0.00017	116	242	0.035335
1.8	0.00066	453	695	0.10148
1.7	0.00066	454	1149	0.16777
1.6	0.00100	686	1835	0.26793
1.5	0.00105	721	2556	0.37321
1.4	0.00172	1180	3736	0.5455
1.3	0.00341	2336	6072	0.88658
1.2	0.00472	3236	9308	1.3591
1.1	0.00634	4345	13653	1.9935
1.0	0.00825	5651	19304	2.8186
0.9	0.01320	9038	28342	4.1383
0.8	0.02133	14611	42953	6.2716
0.7	0.03612	24738	67691	9.8837
0.6	0.06408	43886	111577	16.292
0.5	0.11256	77090	188667	27.548
0.4	0.16018	109704	298371	43.566
0.3	0.22800	156153	454524	66.366
0.2	0.23652	161989	616513	90.018
0.1	0.08753	59945	676458	98.771
0.0	0.01224	8383	684841	99.995
-0.1	0.00005	36	684877	100

Station Information	
Station no.	209475
Station name	Bombah Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	434682
Northing	6403309

Summary Statistics	
Time interval (mins)	15
Start of record	17/07/2001
Highest water level recorded (m)	2.455
Date recorded	21/03/2021
Lowest water level recorded (m)	-0.177
Date recorded	30/11/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209475

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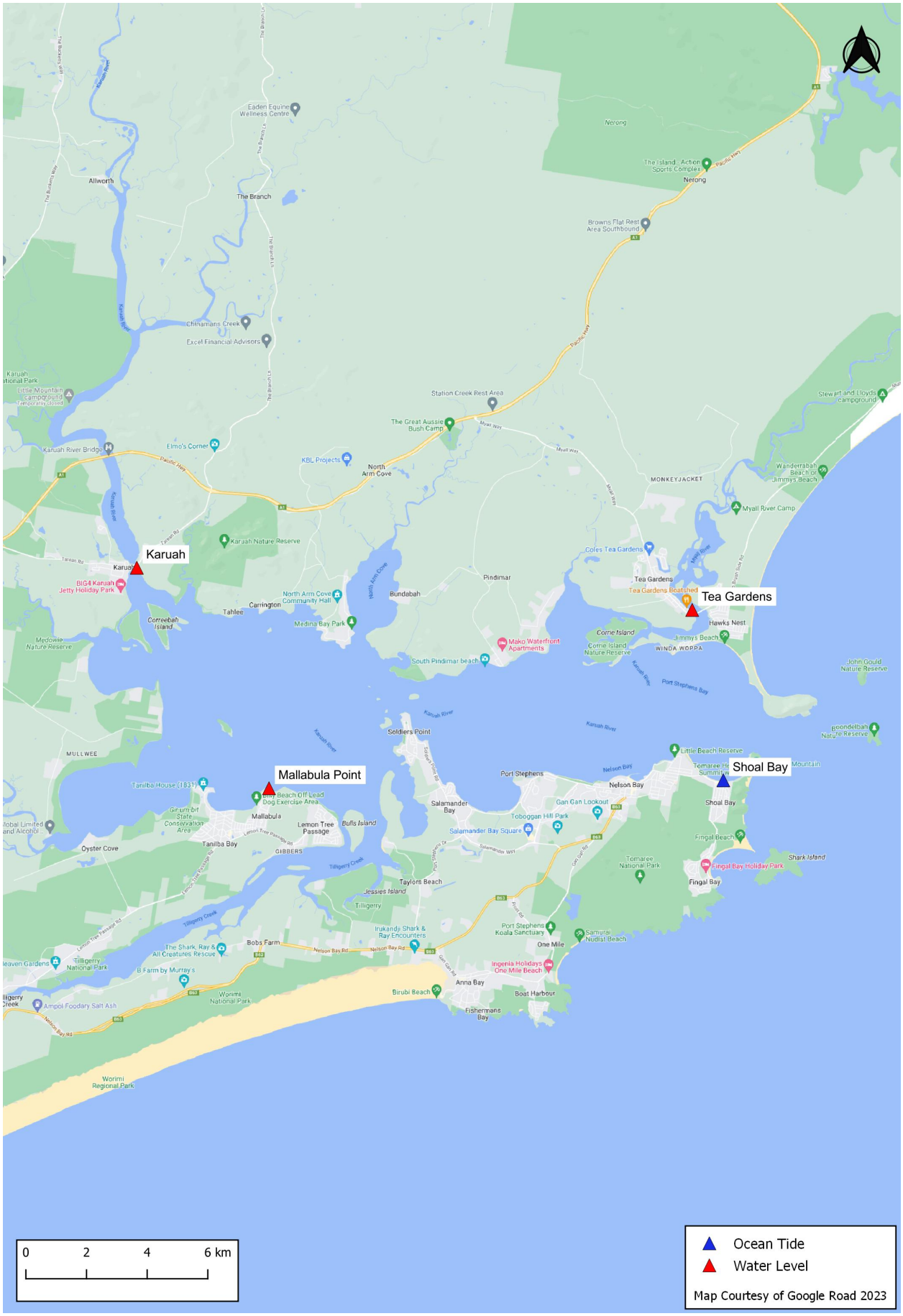
Bombah Point (209475)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A123



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STATION LOCATIONS
PORT STEPHENS REGION

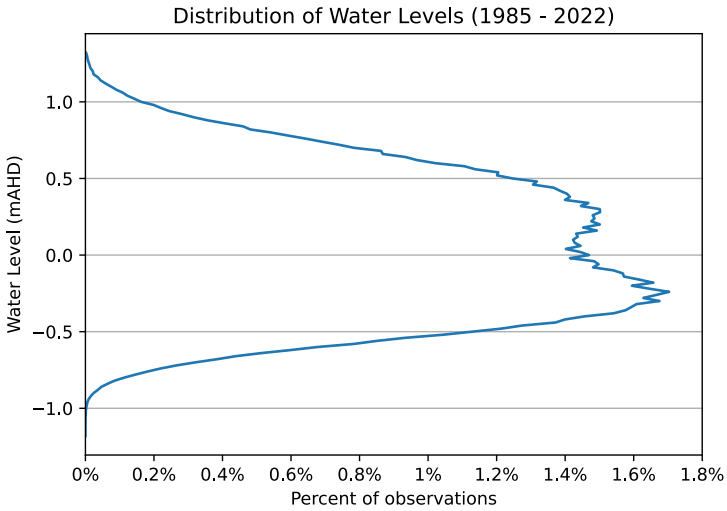
Manly Hydraulics Laboratory

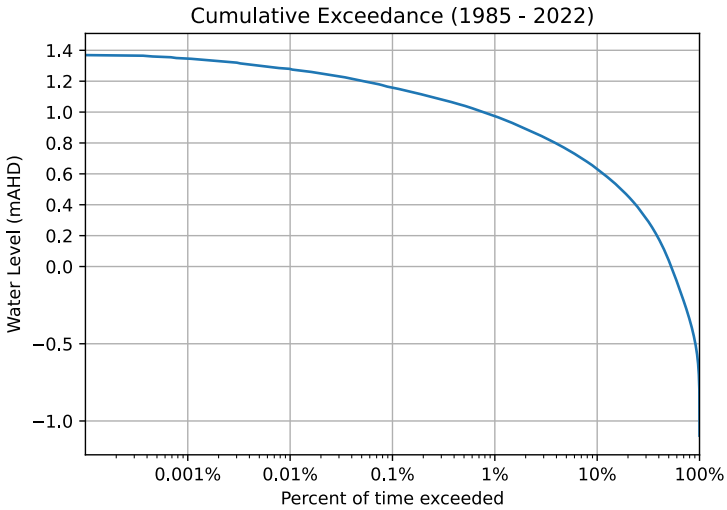
MHL2971
Figure
A124

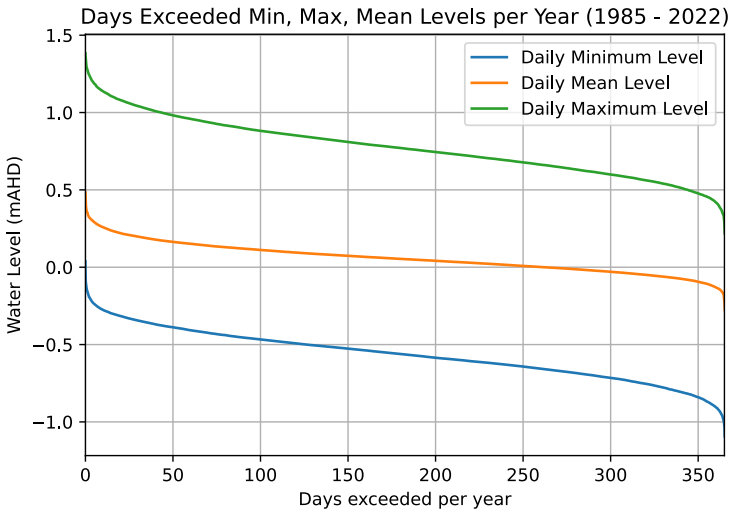
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00005	63	63	0.0049866
1.3	0.00047	596	659	0.052161
1.2	0.00185	2336	2995	0.23706
1.1	0.00539	6812	9807	0.77625
1.0	0.01108	13999	23806	1.8843
0.9	0.02018	25500	49306	3.9027
0.8	0.03207	40518	89824	7.1098
0.7	0.04416	55785	145609	11.525
0.6	0.05671	71641	217250	17.196
0.5	0.06622	83657	300907	23.818
0.4	0.07133	90119	391026	30.951
0.3	0.07446	94069	485095	38.396
0.2	0.07315	92420	577515	45.712
0.1	0.07143	90238	667753	52.854
0.0	0.07347	92823	760576	60.201
-0.1	0.07954	100494	861070	68.156
-0.2	0.08240	104099	965169	76.395
-0.3	0.07994	100993	1066162	84.389
-0.4	0.06718	84868	1151030	91.107
-0.5	0.04739	59876	1210906	95.846
-0.6	0.02609	32968	1243874	98.456
-0.7	0.01134	14333	1258207	99.59
-0.8	0.00346	4367	1262574	99.936
-0.9	0.00060	752	1263326	99.995
-1.0	0.00005	60	1263386	100

Station Information	
Station no.	209474
Station name	Shoal Bay
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	422749
Northing	6379489

Summary Statistics	
Time interval (mins)	15
Start of record	23/09/1985
Highest water level recorded (m)	1.330
Date recorded	05/06/2012
Lowest water level recorded (m)	-1.204
Date recorded	08/02/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209474

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Shoal Bay (209474)
FREQUENCY DISTRIBUTION ANALYSIS

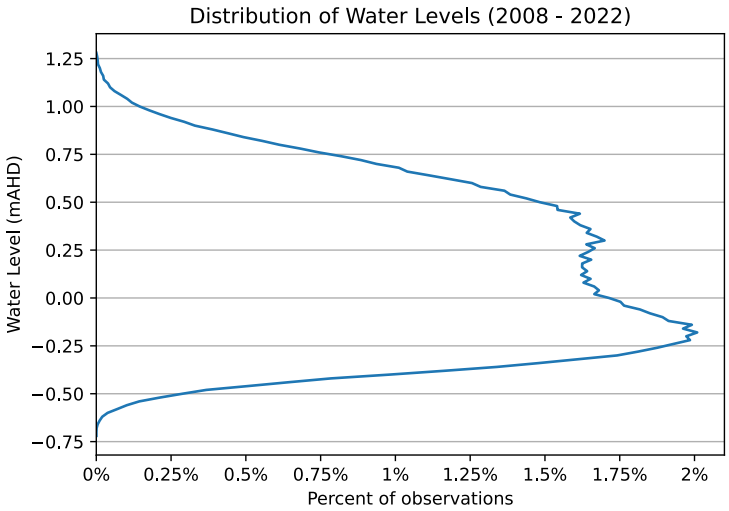
Manly Hydraulics Laboratory

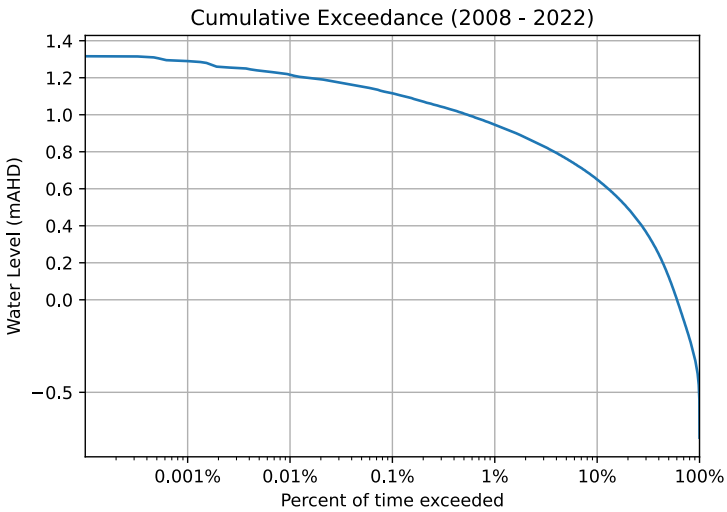
MHL2971
Figure
A125

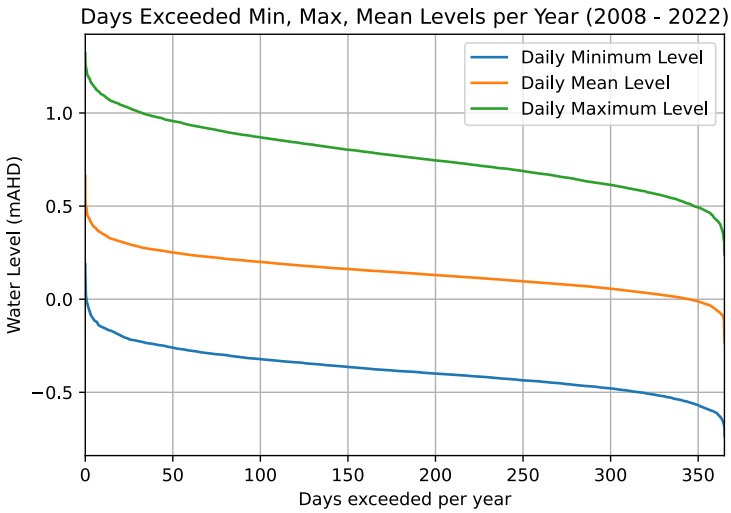
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.3	0.00015	69	69	0.014702
1.2	0.00115	540	609	0.12976
1.1	0.00412	1933	2542	0.54164
1.0	0.01076	5051	7593	1.6179
0.9	0.02205	10349	17942	3.823
0.8	0.03743	17566	35508	7.5659
0.7	0.05286	24809	60317	12.852
0.6	0.06727	31573	91890	19.579
0.5	0.07767	36452	128342	27.346
0.4	0.08181	38396	166738	35.528
0.3	0.08264	38785	205523	43.792
0.2	0.08165	38321	243844	51.957
0.1	0.08291	38913	282757	60.248
0.0	0.08900	41769	324526	69.148
-0.1	0.09768	45844	370370	78.917
-0.2	0.09574	44931	415301	88.49
-0.3	0.07335	34424	449725	95.825
-0.4	0.03283	15407	465132	99.108
-0.5	0.00816	3829	468961	99.924
-0.6	0.00075	350	469311	99.999
-0.7	0.00001	4	469315	99.999

Station Information	
Station no.	209480
Station name	Tea Gardens
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	421723
Northing	6385111

Summary Statistics	
Time interval (mins)	15
Start of record	16/12/2008
Highest water level recorded (m)	1.302
Date recorded	05/06/2012
Lowest water level recorded (m)	-0.740
Date recorded	17/10/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209480

NSW GOVERNMENT

Tea Gardens (209480)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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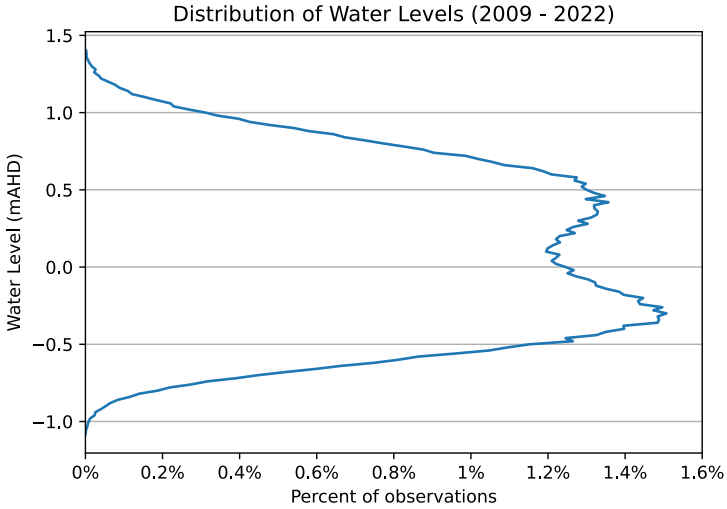
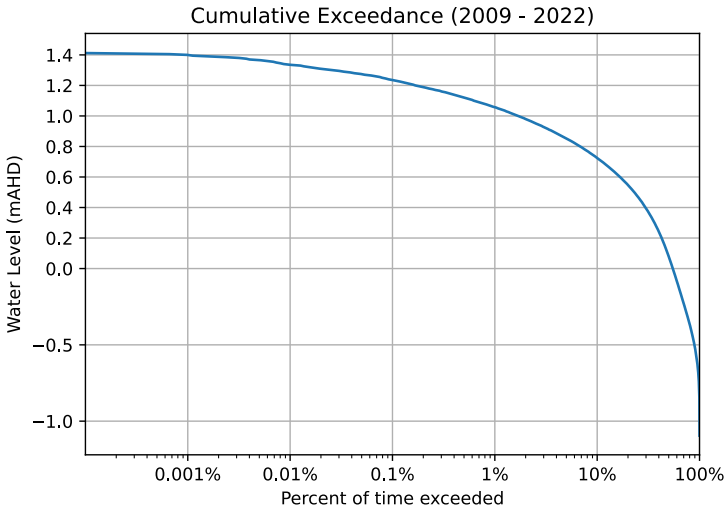
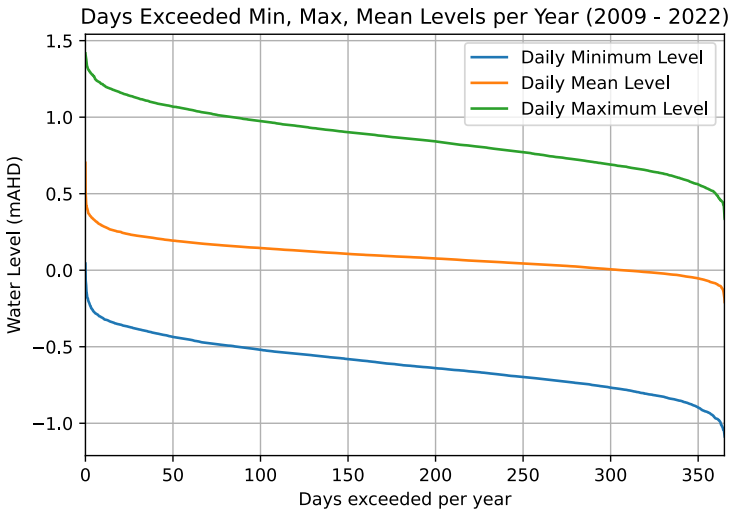
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00025	109	109	0.024934
1.3	0.00141	616	725	0.16584
1.2	0.00456	1994	2719	0.62197
1.1	0.01060	4633	7352	1.6818
1.0	0.01957	8554	15906	3.6385
0.9	0.03164	13831	29737	6.8023
0.8	0.04369	19100	48837	11.171
0.7	0.05511	24090	72927	16.682
0.6	0.06338	27705	100632	23.02
0.5	0.06622	28949	129581	29.642
0.4	0.06607	28884	158465	36.249
0.3	0.06365	27825	186290	42.614
0.2	0.06092	26631	212921	48.706
0.1	0.06076	26563	239484	54.782
0.0	0.06340	27715	267199	61.122
-0.1	0.06778	29631	296830	67.9
-0.2	0.07289	31864	328694	75.189
-0.3	0.07360	32176	360870	82.549
-0.4	0.06583	28779	389649	89.132
-0.5	0.05117	22369	412018	94.249
-0.6	0.03337	14588	426606	97.586
-0.7	0.01646	7197	433803	99.232
-0.8	0.00592	2588	436391	99.824
-0.9	0.00155	677	437068	99.979
-1.0	0.00020	86	437154	99.999

Station Information	
Station no.	209485
Station name	Karuah
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	403411
Northing	6386503

Summary Statistics	
Time interval (mins)	15
Start of record	15/12/2009
Highest water level recorded (m)	1.406
Date recorded	20/04/2015
Lowest water level recorded (m)	-1.097
Date recorded	19/02/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209485

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Karuah (209485)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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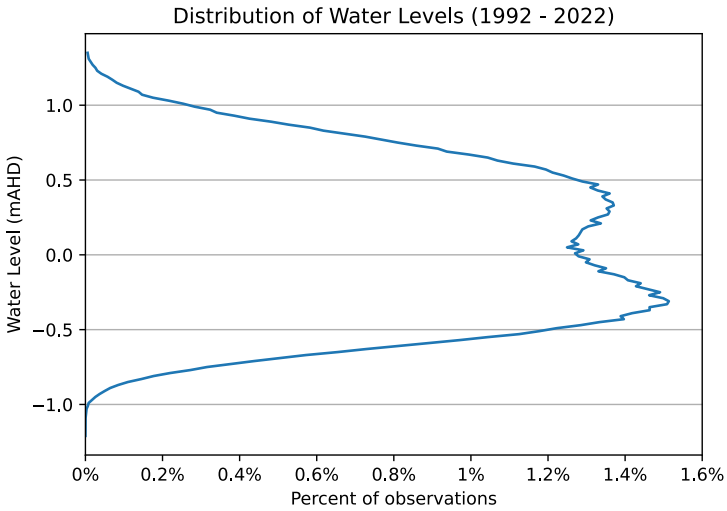
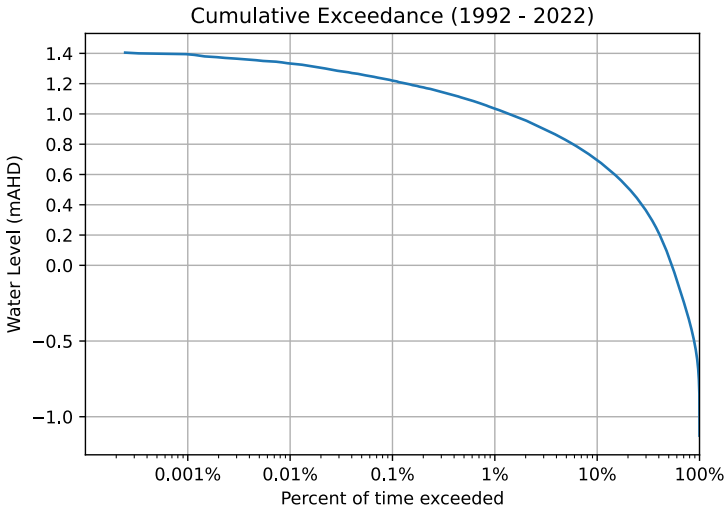
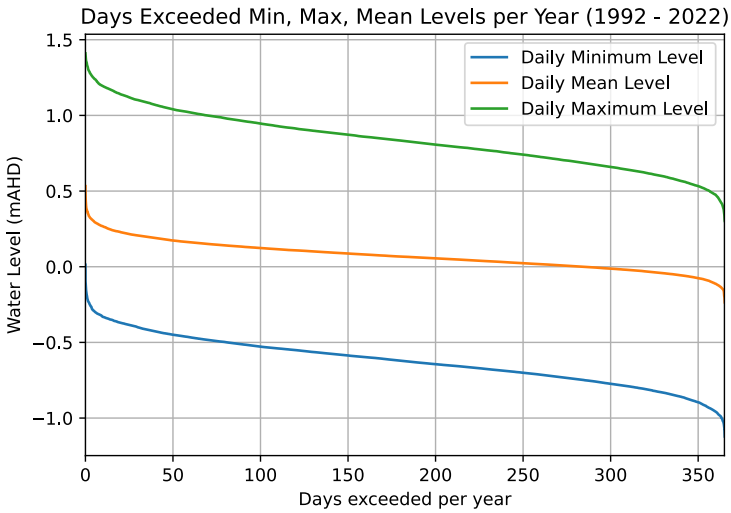
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00022	207	207	0.021747
1.3	0.00113	1078	1285	0.135
1.2	0.00382	3640	4925	0.51742
1.1	0.00863	8210	13135	1.3799
1.0	0.01671	15903	29038	3.0507
0.9	0.02754	26211	55249	5.8044
0.8	0.03954	37640	92889	9.7588
0.7	0.05055	48112	141001	14.813
0.6	0.06007	57178	198179	20.82
0.5	0.06575	62585	260764	27.396
0.4	0.06776	64495	325259	34.171
0.3	0.06704	63816	389075	40.876
0.2	0.06455	61440	450515	47.331
0.1	0.06354	60483	510998	53.685
0.0	0.06509	61959	572957	60.194
-0.1	0.06916	65834	638791	67.111
-0.2	0.07301	69494	708285	74.412
-0.3	0.07422	70650	778935	81.834
-0.4	0.06727	64033	842968	88.561
-0.5	0.05379	51203	894171	93.941
-0.6	0.03461	32946	927117	97.402
-0.7	0.01760	16749	943866	99.162
-0.8	0.00659	6277	950143	99.821
-0.9	0.00163	1550	951693	99.984
-1.0	0.00015	147	951840	99.999
-1.1	0.00000	3	951843	100

Station Information	
Station no.	209461
Station name	Mallabula Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	407770
Northing	6379228

Summary Statistics	
Time interval (mins)	15
Start of record	08/07/1992
Highest water level recorded (m)	1.359
Date recorded	05/06/2012
Lowest water level recorded (m)	-1.229
Date recorded	08/02/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-209461

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Mallabula Point (209461)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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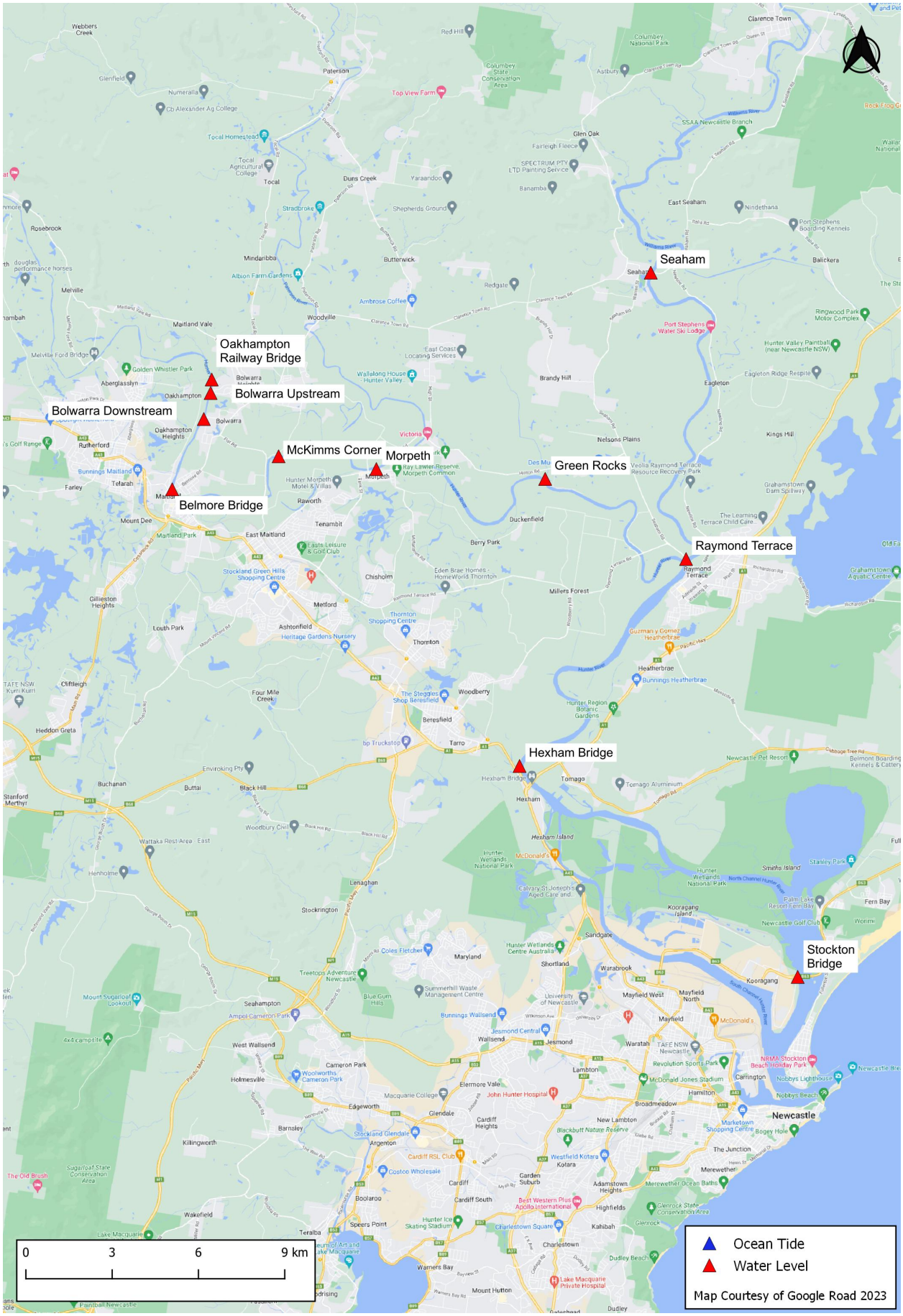

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STATION LOCATIONS
HUNTER RIVER REGION

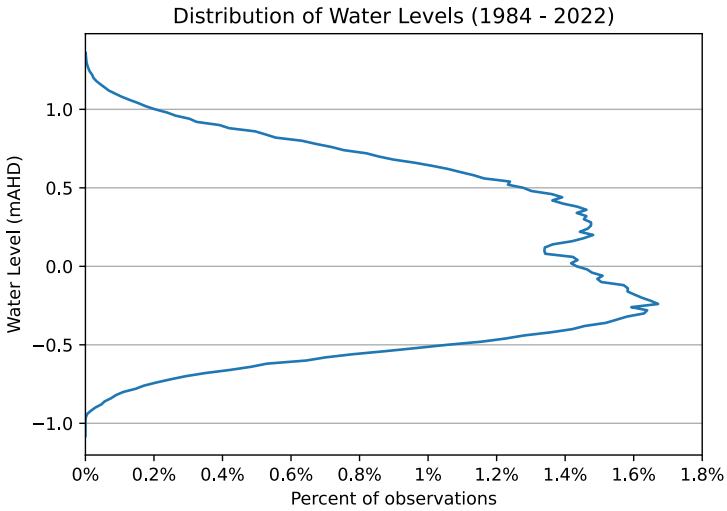
Manly Hydraulics Laboratory

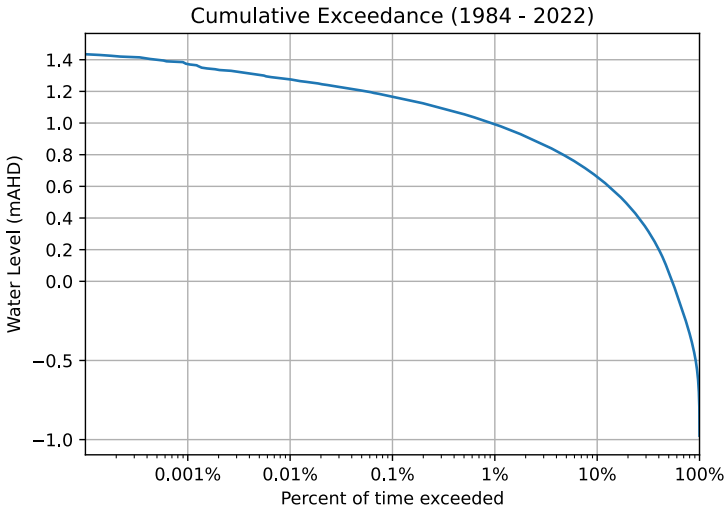
MHL2971
Figure
A129

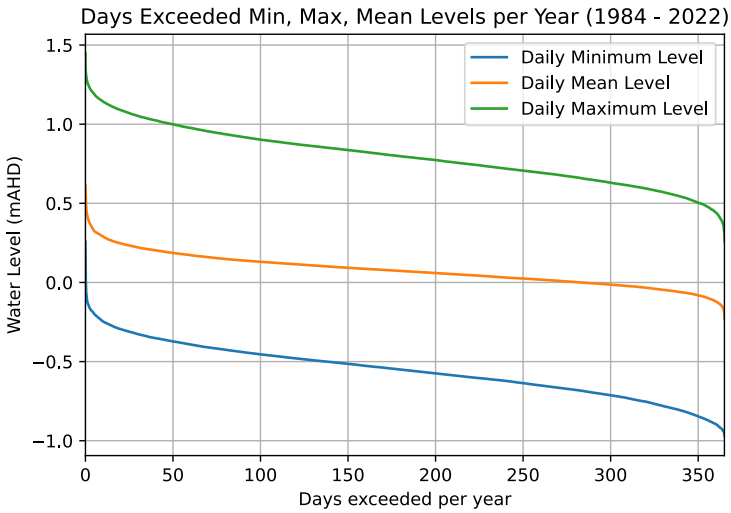
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00005	63	63	0.0050518
1.3	0.00051	630	693	0.05557
1.2	0.00223	2782	3475	0.27865
1.1	0.00652	8130	11605	0.93058
1.0	0.01333	16621	28226	2.2634
0.9	0.02386	29761	57987	4.6499
0.8	0.03597	44854	102841	8.2466
0.7	0.04786	59687	162528	13.033
0.6	0.05864	73132	235660	18.897
0.5	0.06695	83487	319147	25.592
0.4	0.07187	89623	408770	32.778
0.3	0.07315	91217	499987	40.093
0.2	0.07062	88069	588056	47.155
0.1	0.06957	86764	674820	54.112
0.0	0.07380	92028	766848	61.492
-0.1	0.07844	97817	864665	69.336
-0.2	0.08178	101986	966651	77.514
-0.3	0.07737	96491	1063142	85.251
-0.4	0.06444	80356	1143498	91.695
-0.5	0.04381	54640	1198138	96.076
-0.6	0.02428	30285	1228423	98.505
-0.7	0.01065	13282	1241705	99.57
-0.8	0.00378	4714	1246419	99.948
-0.9	0.00052	643	1247062	99.999

Station Information	
Station no.	210456
Station name	Stockton Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	386238
Northing	6360819

Summary Statistics	
Time interval (mins)	15
Start of record	11/12/1984
Highest water level recorded (m)	1.374
Date recorded	21/04/2015
Lowest water level recorded (m)	-1.100
Date recorded	12/06/1987







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210456

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Stockton Bridge (210456)
FREQUENCY DISTRIBUTION ANALYSIS

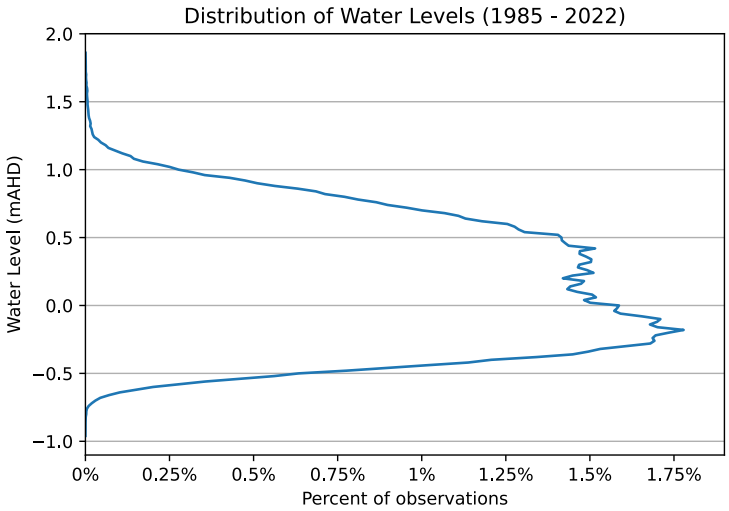
Manly Hydraulics Laboratory

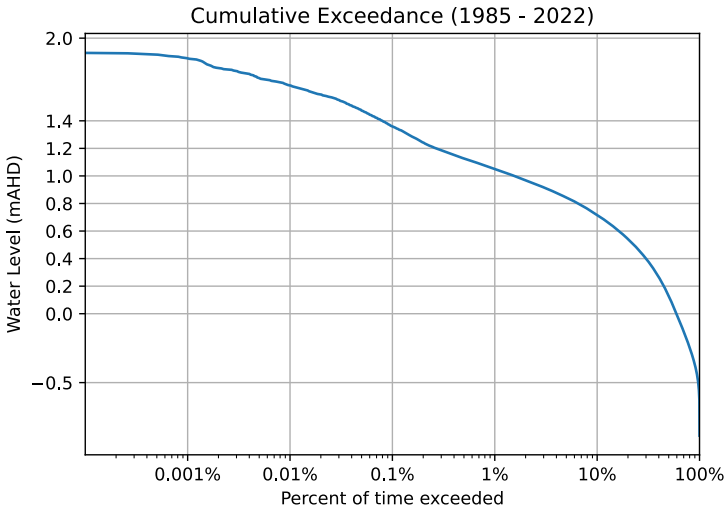
MHL2971
Figure
A130

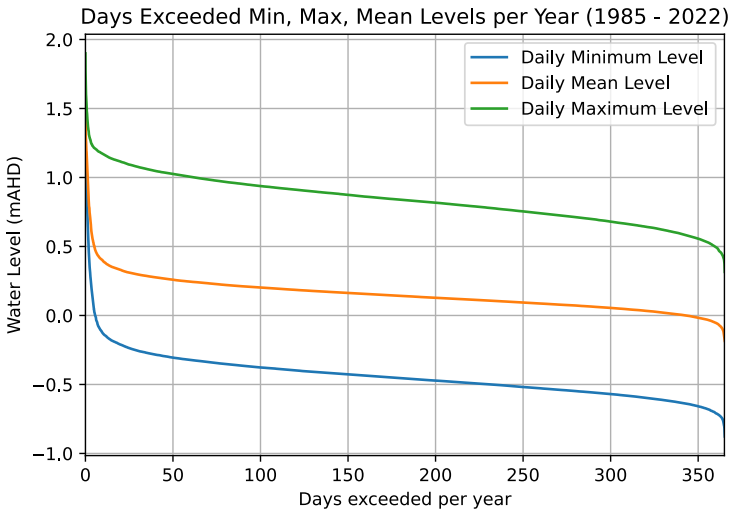
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00002	21	21	0.0017002
1.8	0.00004	50	71	0.0057484
1.7	0.00012	148	219	0.017731
1.6	0.00025	311	530	0.04291
1.5	0.00037	456	986	0.079829
1.4	0.00064	788	1774	0.14363
1.3	0.00124	1526	3300	0.26718
1.2	0.00373	4603	7903	0.63985
1.1	0.00914	11291	19194	1.554
1.0	0.01855	22914	42108	3.4092
0.9	0.03103	38330	80438	6.5125
0.8	0.04299	53100	133538	10.812
0.7	0.05487	67768	201306	16.298
0.6	0.06529	80642	281948	22.827
0.5	0.07210	89057	371005	30.038
0.4	0.07435	91834	462839	37.473
0.3	0.07383	91195	554034	44.856
0.2	0.07250	89548	643582	52.106
0.1	0.07471	92272	735854	59.577
0.0	0.07985	98631	834485	67.562
-0.1	0.08568	105823	940308	76.13
-0.2	0.08488	104843	1045151	84.618
-0.3	0.07423	91680	1136831	92.041
-0.4	0.05037	62211	1199042	97.078
-0.5	0.02284	28212	1227254	99.362
-0.6	0.00569	7026	1234280	99.931
-0.7	0.00065	805	1235085	99.996
-0.8	0.00004	52	1235137	100

Station Information	
Station no.	210448
Station name	Hexham Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	376568
Northing	6368156

Summary Statistics	
Time interval (mins)	15
Start of record	12/06/1985
Highest water level recorded (m)	1.874
Date recorded	23/04/2015
Lowest water level recorded (m)	-0.980
Date recorded	08/02/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210448

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Hexham Bridge (210448)
FREQUENCY DISTRIBUTION ANALYSIS

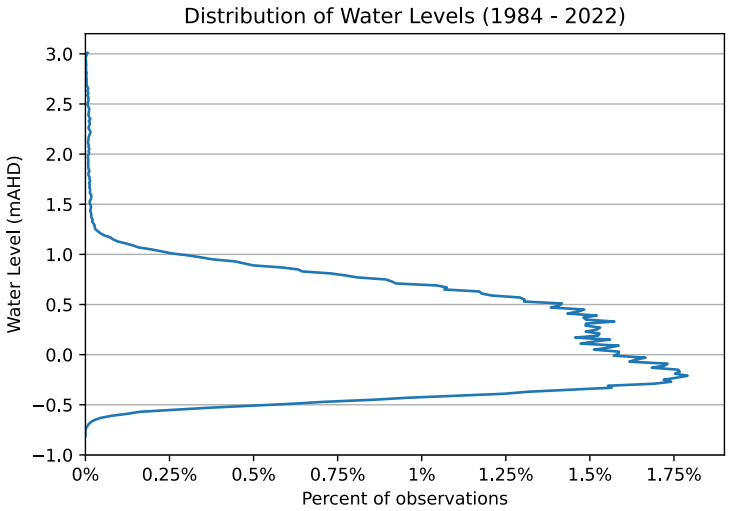
Manly Hydraulics Laboratory

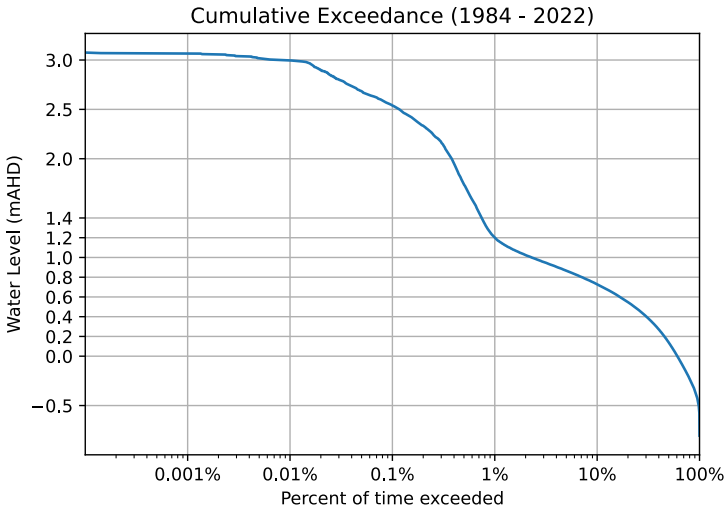
MHL2971
Figure
A131

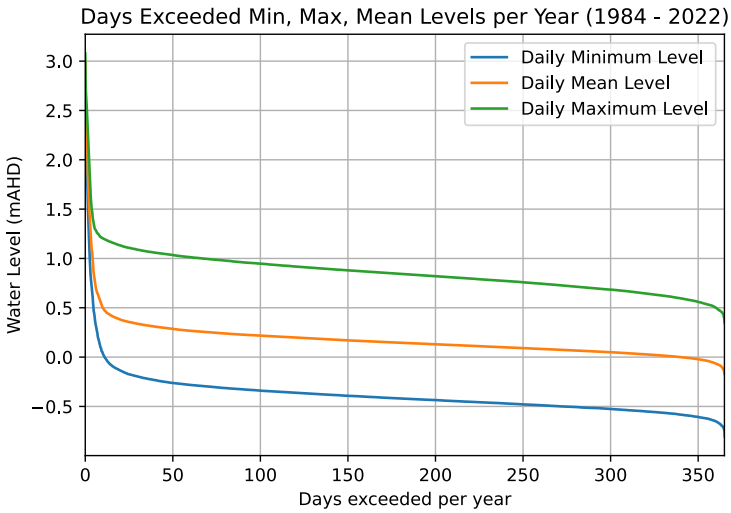
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00008	99	99	0.0076649
3.0	0.00023	291	390	0.030195
2.8	0.00047	604	994	0.076959
2.6	0.00086	1112	2106	0.16305
2.4	0.00117	1513	3619	0.2802
2.2	0.00100	1287	4906	0.37984
2.0	0.00089	1147	6053	0.46864
1.8	0.00122	1572	7625	0.59035
1.6	0.00153	1975	9600	0.74326
1.4	0.00253	3267	12867	0.99621
1.2	0.01291	16674	29541	2.2872
1.0	0.04795	61938	91479	7.0826
0.8	0.09581	123742	215221	16.663
0.6	0.13636	176126	391347	30.299
0.4	0.15049	194370	585717	45.348
0.2	0.15292	197517	783234	60.641
0.0	0.16827	217337	1000571	77.468
-0.2	0.16114	208127	1208698	93.582
-0.4	0.06173	79730	1288428	99.754
-0.6	0.00245	3170	1291598	100
-0.8	0.00000	1	1291599	100

Station Information	
Station no.	210452
Station name	Raymond Terrace
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	382357
Northing	6375355

Summary Statistics	
Time interval (mins)	15
Start of record	11/12/1984
Highest water level recorded (m)	3.020
Date recorded	04/02/1990
Lowest water level recorded (m)	-0.832
Date recorded	22/12/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210452

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Raymond Terrace (210452)
FREQUENCY DISTRIBUTION ANALYSIS

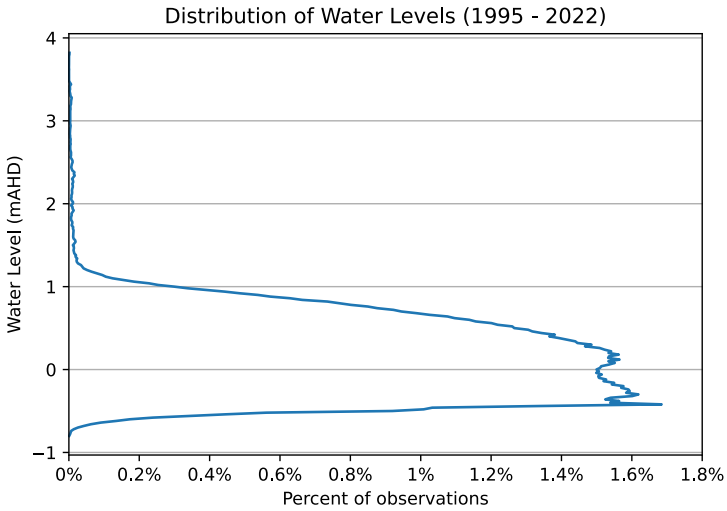
Manly Hydraulics Laboratory

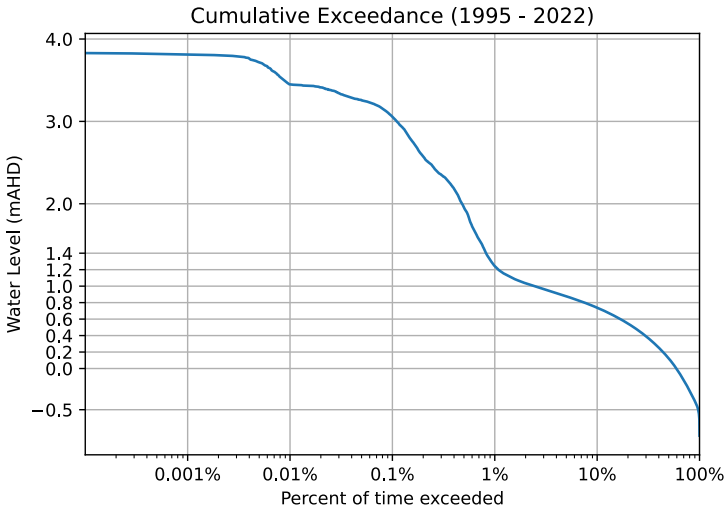
MHL2971
Figure
A132

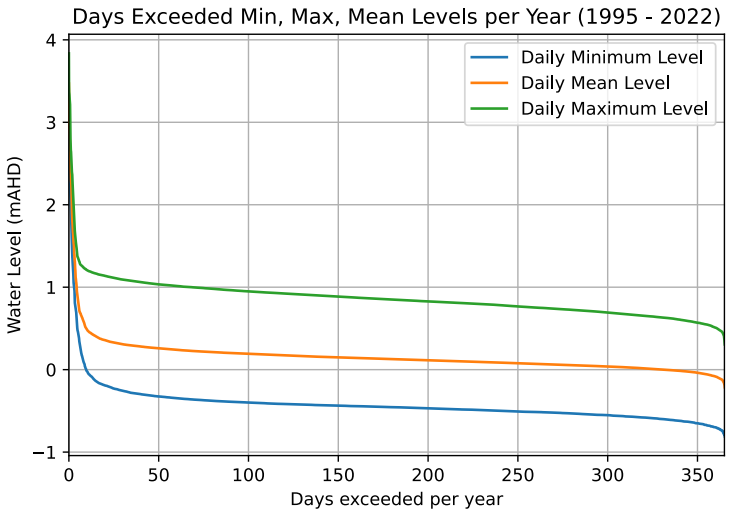
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.8	0.00005	46	46	0.0049998
3.6	0.00015	136	182	0.019782
3.4	0.00047	433	615	0.066846
3.2	0.00042	382	997	0.10837
3.0	0.00037	341	1338	0.14543
2.8	0.00045	411	1749	0.1901
2.6	0.00076	698	2447	0.26597
2.4	0.00123	1129	3576	0.38868
2.2	0.00088	810	4386	0.47672
2.0	0.00090	825	5211	0.56639
1.8	0.00109	1001	6212	0.67519
1.6	0.00145	1331	7543	0.81986
1.4	0.00263	2416	9959	1.0825
1.2	0.01339	12319	22278	2.4214
1.0	0.05089	46817	69095	7.5101
0.8	0.09349	86018	155113	16.86
0.6	0.12587	115807	270920	29.447
0.4	0.14584	134177	405097	44.031
0.2	0.15372	141424	546521	59.402
0.0	0.15170	139565	686086	74.572
-0.2	0.15762	145013	831099	90.334
-0.4	0.09106	83779	914878	99.44
-0.6	0.00557	5126	920004	99.997
-0.8	0.00001	8	920012	99.998

Station Information	
Station no.	210462
Station name	Seaham
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	381130
Northing	6385316

Summary Statistics	
Time interval (mins)	15
Start of record	13/12/1995
Highest water level recorded (m)	3.831
Date recorded	21/04/2015
Lowest water level recorded (m)	-0.820
Date recorded	07/10/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210462

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Seaham (210462)
FREQUENCY DISTRIBUTION ANALYSIS

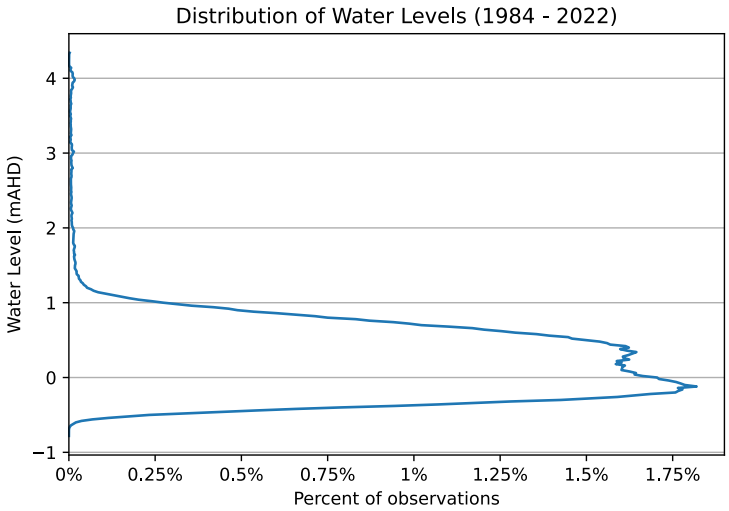
Manly Hydraulics Laboratory

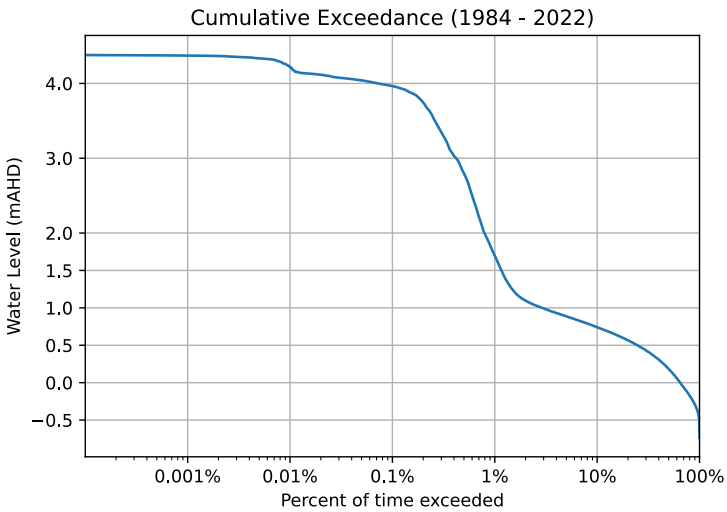
MHL2971
Figure
A133

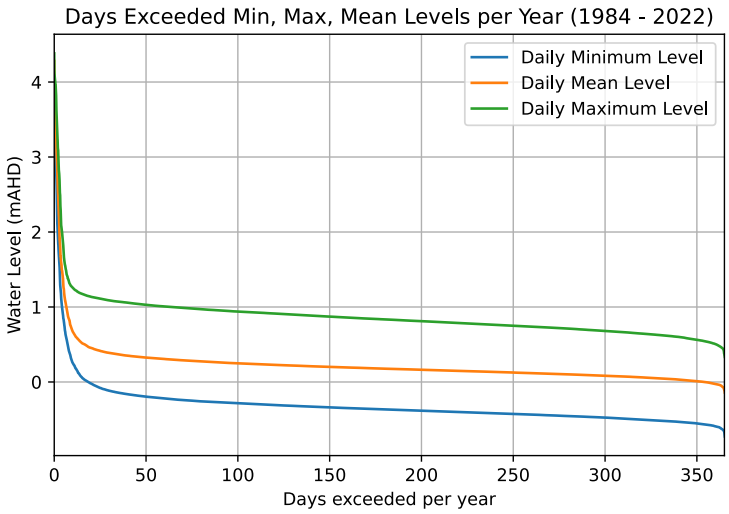
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.5	0.00008	97	97	0.0075835
4.3	0.00016	211	308	0.02408
4.1	0.00116	1486	1794	0.14026
3.9	0.00071	902	2696	0.21077
3.7	0.00050	637	3333	0.26058
3.5	0.00053	680	4013	0.31374
3.3	0.00057	725	4738	0.37042
3.1	0.00090	1149	5887	0.46025
2.9	0.00077	987	6874	0.53741
2.7	0.00063	811	7685	0.60082
2.5	0.00069	887	8572	0.67016
2.3	0.00078	993	9565	0.7478
2.1	0.00112	1427	10992	0.85936
1.9	0.00140	1797	12789	0.99985
1.7	0.00164	2094	14883	1.1636
1.5	0.00225	2883	17766	1.389
1.3	0.00580	7423	25189	1.9693
1.1	0.02728	34897	60086	4.6976
0.9	0.07377	94361	154447	12.075
0.7	0.12695	162386	316833	24.77
0.5	0.15895	203316	520149	40.665
0.3	0.16053	205333	725482	56.719
0.1	0.16861	215664	941146	73.579
-0.1	0.17096	218674	1159820	90.675
-0.3	0.08656	110723	1270543	99.332
-0.5	0.00668	8546	1279089	100
-0.7	0.00000	3	1279092	100

Station Information	
Station no.	210432
Station name	Green Rocks
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	377459
Northing	6378142

Summary Statistics	
Time interval (mins)	15
Start of record	10/12/1984
Highest water level recorded (m)	4.362
Date recorded	22/04/2015
Lowest water level recorded (m)	-0.800
Date recorded	13/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210432

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Green Rocks (210432)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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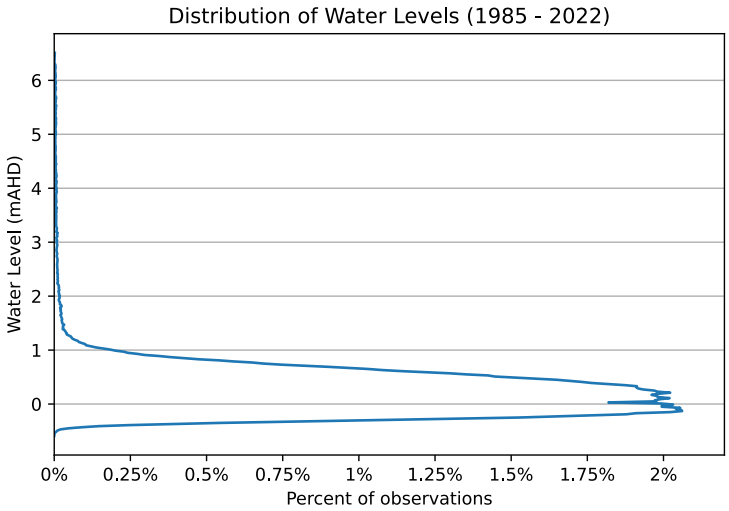
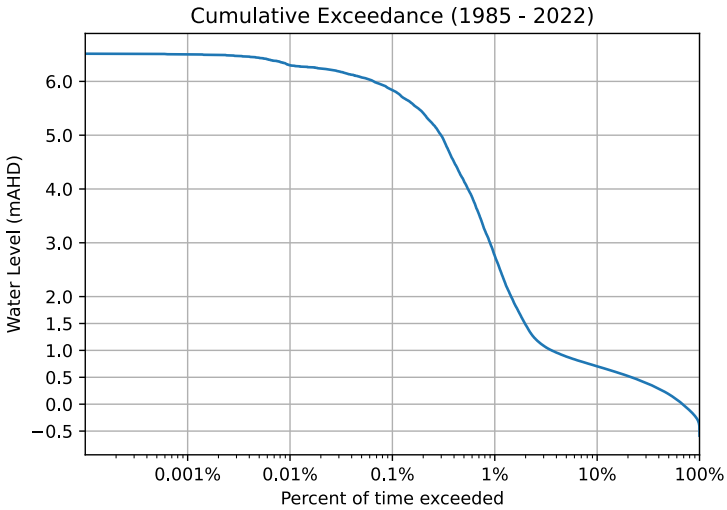
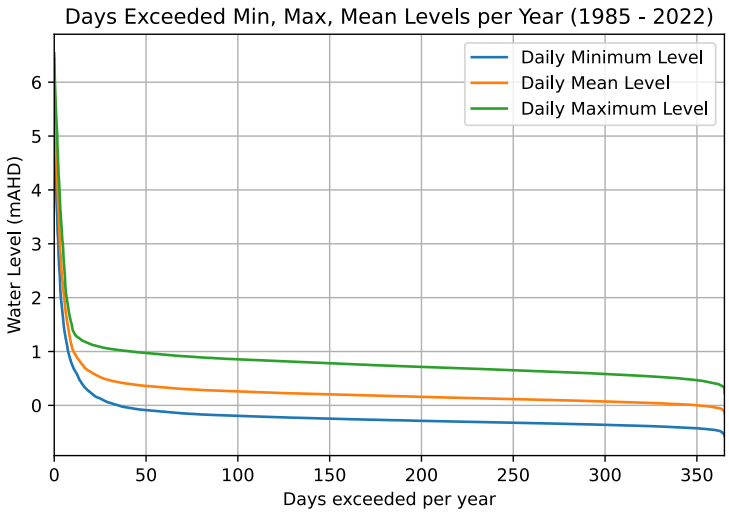
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.6	0.00010	127	127	0.010135
6.3	0.00056	699	826	0.065916
6.0	0.00061	760	1586	0.12656
5.7	0.00075	945	2531	0.20198
5.4	0.00074	923	3454	0.27563
5.1	0.00061	760	4214	0.33628
4.8	0.00065	809	5023	0.40084
4.5	0.00085	1060	6083	0.48543
4.2	0.00099	1240	7323	0.58438
3.9	0.00094	1173	8496	0.67799
3.6	0.00097	1210	9706	0.77455
3.3	0.00125	1566	11272	0.89952
3.0	0.00127	1590	12862	1.0264
2.7	0.00152	1907	14769	1.1786
2.4	0.00191	2388	17157	1.3691
2.1	0.00259	3246	20403	1.6282
1.8	0.00344	4305	24708	1.9717
1.5	0.00568	7122	31830	2.5401
1.2	0.02235	28009	59839	4.7752
0.9	0.10334	129501	189340	15.109
0.6	0.23799	298235	487575	38.909
0.3	0.29459	369152	856727	68.368
0.0	0.27912	349774	1206501	96.28
-0.3	0.03720	46618	1253119	100

Station Information	
Station no.	210430
Station name	Morpeth
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	371590
Northing	6378484

Summary Statistics	
Time interval (mins)	15
Start of record	30/04/1985
Highest water level recorded (m)	6.520
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.610
Date recorded	23/09/1987







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210430

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Morpeth (210430)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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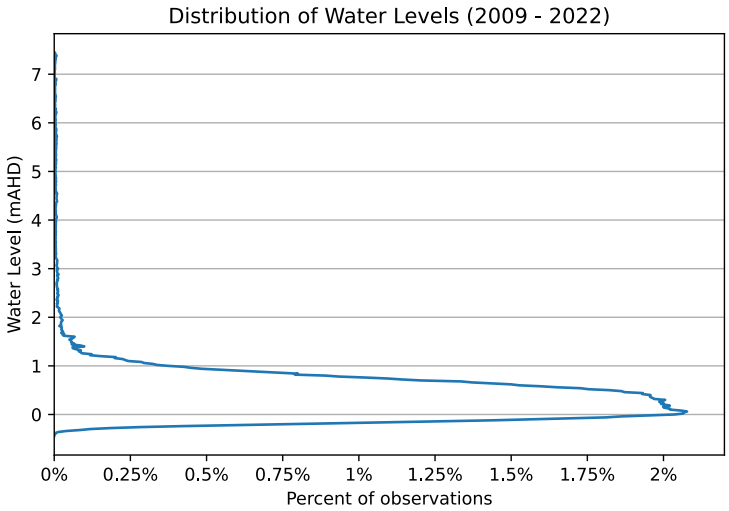
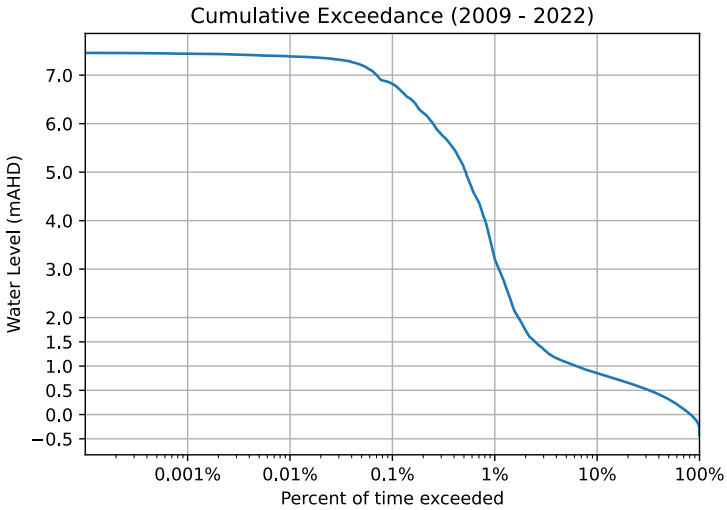
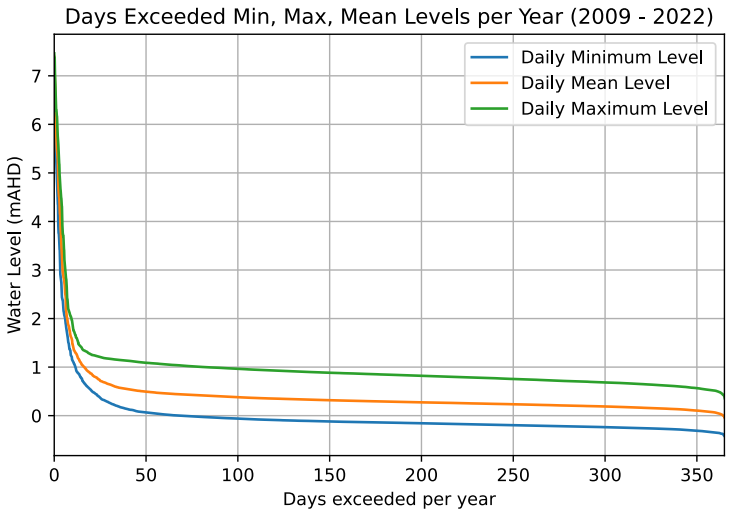
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
7.7	0.00006	33	33	0.0063211
7.4	0.00056	290	323	0.06187
7.1	0.00043	222	545	0.10439
6.8	0.00048	252	797	0.15266
6.5	0.00054	282	1079	0.20668
6.2	0.00062	322	1401	0.26836
5.9	0.00094	490	1891	0.36222
5.6	0.00085	442	2333	0.44688
5.3	0.00072	377	2710	0.5191
5.0	0.00071	371	3081	0.59016
4.7	0.00098	511	3592	0.68804
4.4	0.00084	438	4030	0.77194
4.1	0.00084	437	4467	0.85565
3.8	0.00070	366	4833	0.92576
3.5	0.00077	401	5234	1.0026
3.2	0.00140	733	5967	1.143
2.9	0.00152	796	6763	1.2954
2.6	0.00166	867	7630	1.4615
2.3	0.00236	1234	8864	1.6979
2.0	0.00349	1822	10686	2.0469
1.7	0.00757	3953	14639	2.8041
1.4	0.01891	9873	24512	4.6952
1.1	0.07391	38584	63096	12.086
0.8	0.20191	105411	168507	32.277
0.5	0.29200	152442	320949	61.477
0.2	0.29712	155112	476061	91.189
-0.1	0.08806	45975	522036	99.995
-0.4	0.00005	24	522060	100

Station Information	
Station no.	210455
Station name	McKimms Corner
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	368191
Northing	6378929

Summary Statistics	
Time interval (mins)	15
Start of record	31/10/2009
Highest water level recorded (m)	7.459
Date recorded	11/03/2022
Lowest water level recorded (m)	-0.462
Date recorded	18/10/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210455

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McKimms Corner (210455)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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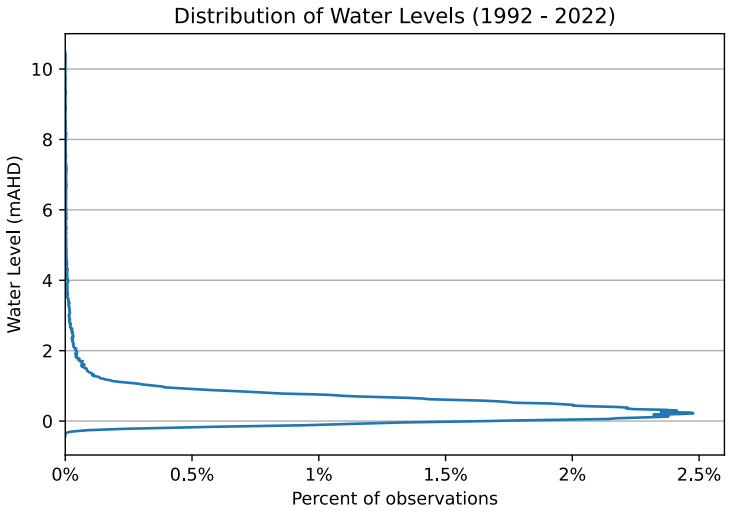
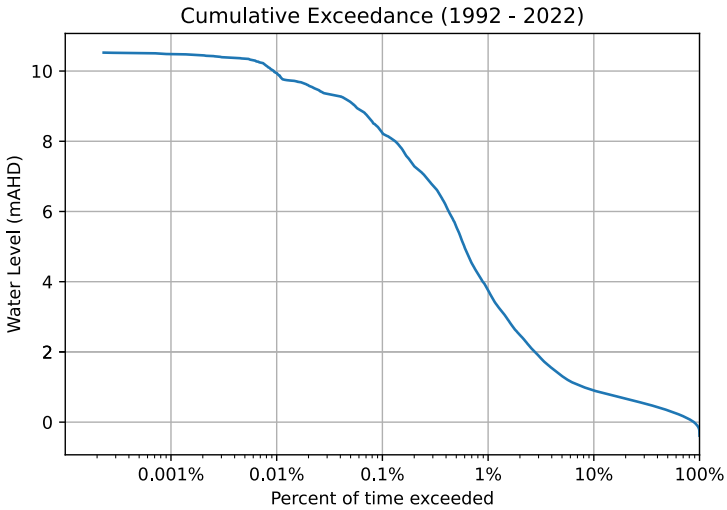
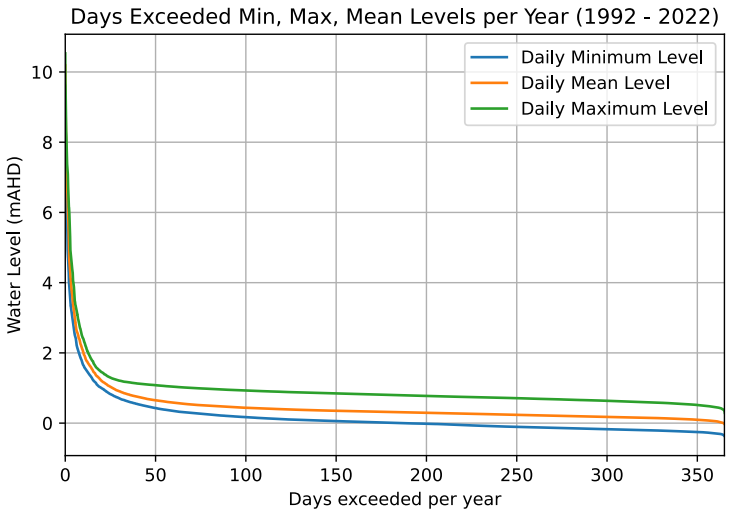
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
10.8	0.00003	31	31	0.0029775
10.4	0.00006	67	98	0.0094128
10.0	0.00010	108	206	0.019786
9.6	0.00025	264	470	0.045143
9.2	0.00023	242	712	0.068387
8.8	0.00023	237	949	0.09115
8.4	0.00041	428	1377	0.13226
8.0	0.00035	362	1739	0.16703
7.6	0.00049	506	2245	0.21563
7.2	0.00073	761	3006	0.28872
6.8	0.00074	768	3774	0.36249
6.4	0.00062	650	4424	0.42492
6.0	0.00070	729	5153	0.49494
5.6	0.00066	689	5842	0.56112
5.2	0.00074	770	6612	0.63507
4.8	0.00106	1099	7711	0.74063
4.4	0.00150	1564	9275	0.89085
4.0	0.00174	1811	11086	1.0648
3.6	0.00245	2552	13638	1.3099
3.2	0.00326	3394	17032	1.6359
2.8	0.00485	5047	22079	2.1207
2.4	0.00643	6695	28774	2.7637
2.0	0.01018	10597	39371	3.7815
1.6	0.01904	19826	59197	5.6858
1.2	0.07521	78305	137502	13.207
0.8	0.29743	309662	447164	42.949
0.4	0.45470	473402	920566	88.419
0.0	0.11581	120575	1041141	100

Station Information	
Station no.	210458
Station name	Belmore Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	364492
Northing	6377780

Summary Statistics	
Time interval (mins)	15
Start of record	13/06/1992
Highest water level recorded (m)	10.470
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.440
Date recorded	22/12/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210458

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Belmore Bridge (210458)
FREQUENCY DISTRIBUTION ANALYSIS

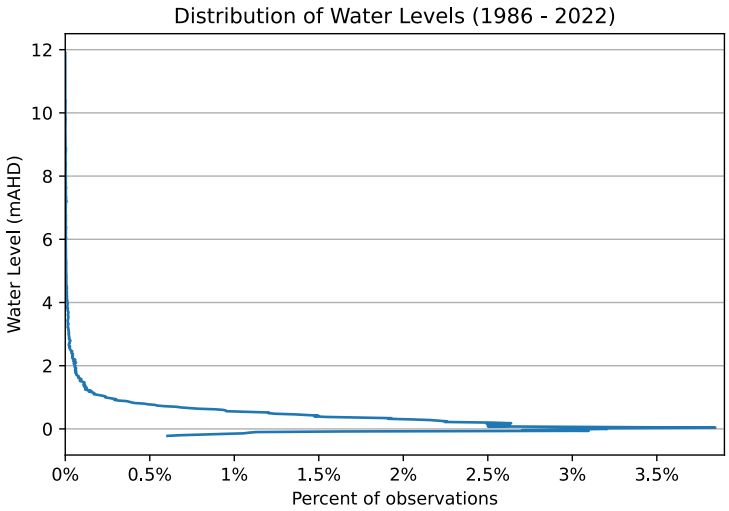
Manly Hydraulics Laboratory

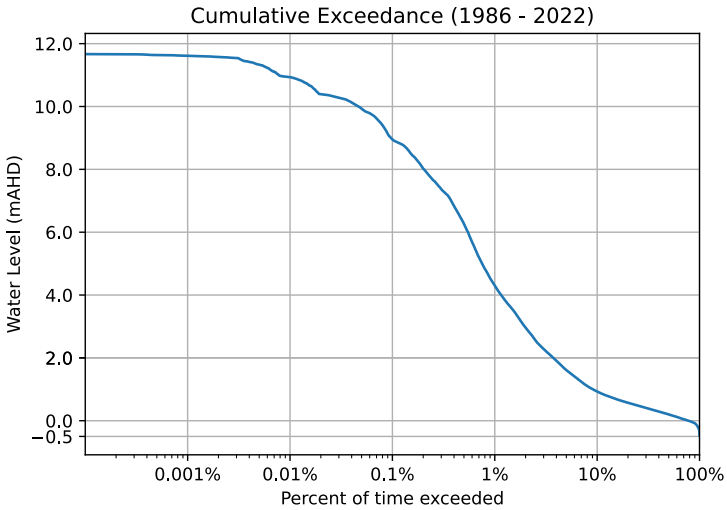
MHL2971
Figure
A137

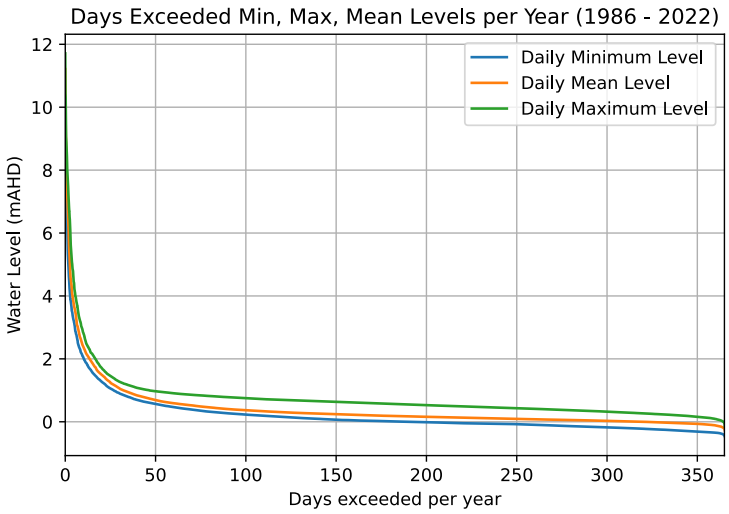
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
11.9	0.00003	41	41	0.0033315
11.5	0.00004	46	87	0.0070694
11.1	0.00008	99	186	0.015114
10.7	0.00013	158	344	0.027952
10.3	0.00023	287	631	0.051273
9.9	0.00024	301	932	0.075732
9.5	0.00015	190	1122	0.091171
9.1	0.00044	537	1659	0.13481
8.7	0.00039	475	2134	0.1734
8.3	0.00043	529	2663	0.21639
7.9	0.00061	754	3417	0.27766
7.5	0.00082	1009	4426	0.35964
7.1	0.00063	772	5198	0.42237
6.7	0.00072	892	6090	0.49486
6.3	0.00067	830	6920	0.5623
5.9	0.00075	919	7839	0.63698
5.5	0.00089	1096	8935	0.72603
5.1	0.00120	1479	10414	0.84621
4.7	0.00155	1903	12317	1.0008
4.3	0.00218	2687	15004	1.2192
3.9	0.00310	3810	18814	1.5288
3.5	0.00327	4027	22841	1.856
3.1	0.00469	5770	28611	2.3249
2.7	0.00640	7879	36490	2.9651
2.3	0.01067	13127	49617	4.0317
1.9	0.01454	17898	67515	5.4861
1.5	0.02552	31404	98919	8.0379
1.1	0.06859	84416	183335	14.897
0.7	0.24191	297711	481046	39.088
0.3	0.52462	645634	1126680	91.551
-0.1	0.08449	103980	1230660	100

Station Information	
Station no.	210451
Station name	Bolwarra Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	365591
Northing	6380224

Summary Statistics	
Time interval (mins)	15
Start of record	04/03/1986
Highest water level recorded (m)	11.920
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.242
Date recorded	22/09/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210451

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Bolwarra Downstream (210451)
FREQUENCY DISTRIBUTION ANALYSIS

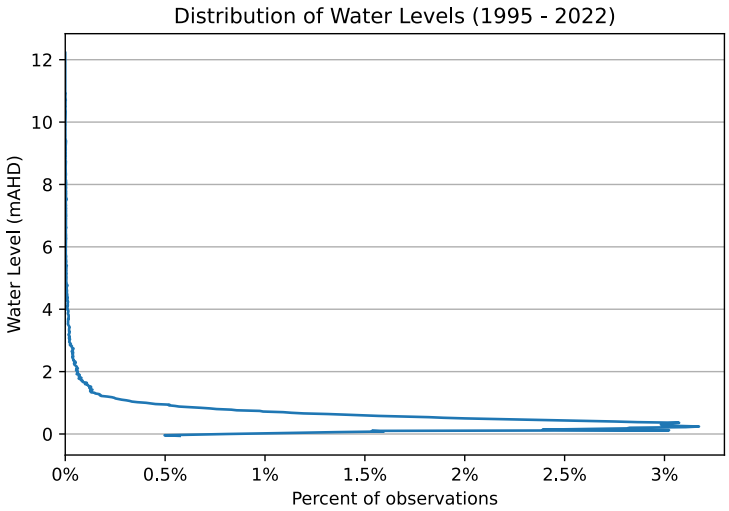
Manly Hydraulics Laboratory

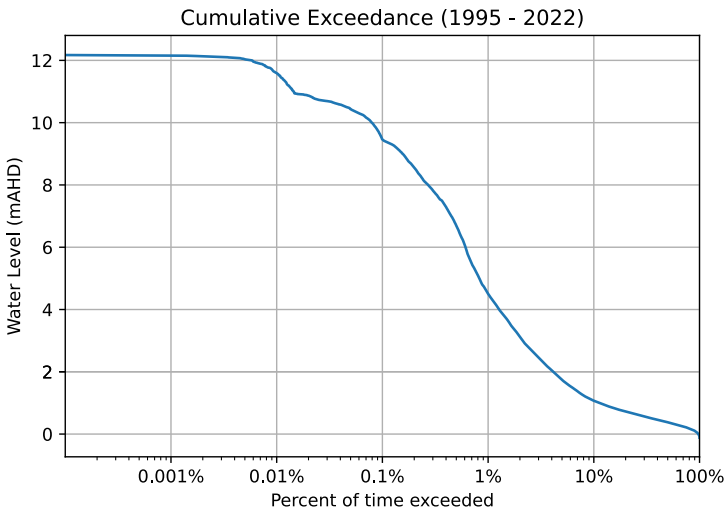
MHL2971
Figure
A138

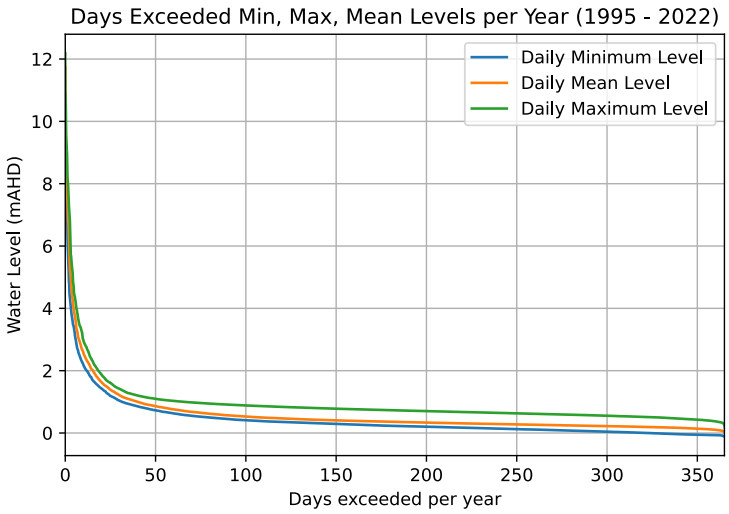
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.3	0.00007	65	65	0.0069866
11.9	0.00004	36	101	0.010856
11.5	0.00003	28	129	0.013866
11.1	0.00015	139	268	0.028806
10.7	0.00031	291	559	0.060085
10.3	0.00024	222	781	0.083946
9.9	0.00015	140	921	0.098994
9.5	0.00047	436	1357	0.14586
9.1	0.00039	361	1718	0.18466
8.7	0.00043	404	2122	0.22808
8.3	0.00059	552	2674	0.28742
7.9	0.00077	715	3389	0.36427
7.5	0.00067	619	4008	0.4308
7.1	0.00068	632	4640	0.49873
6.7	0.00064	596	5236	0.5628
6.3	0.00062	573	5809	0.62438
5.9	0.00071	657	6466	0.695
5.5	0.00105	979	7445	0.80023
5.1	0.00124	1155	8600	0.92438
4.7	0.00177	1650	10250	1.1017
4.3	0.00238	2218	12468	1.3401
3.9	0.00300	2788	15256	1.6398
3.5	0.00385	3579	18835	2.0245
3.1	0.00529	4922	23757	2.5535
2.7	0.00774	7202	30959	3.3277
2.3	0.01105	10285	41244	4.4331
1.9	0.01778	16542	57786	6.2112
1.5	0.03352	31185	88971	9.5631
1.1	0.11473	106740	195711	21.036
0.7	0.40745	379078	574789	61.782
0.3	0.38199	355385	930174	99.98
-0.1	0.00020	182	930356	100

Station Information	
Station no.	210475
Station name	Oakhampton Railway Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	365866
Northing	6381600

Summary Statistics	
Time interval (mins)	15
Start of record	14/12/1995
Highest water level recorded (m)	12.244
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.078
Date recorded	18/11/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210475

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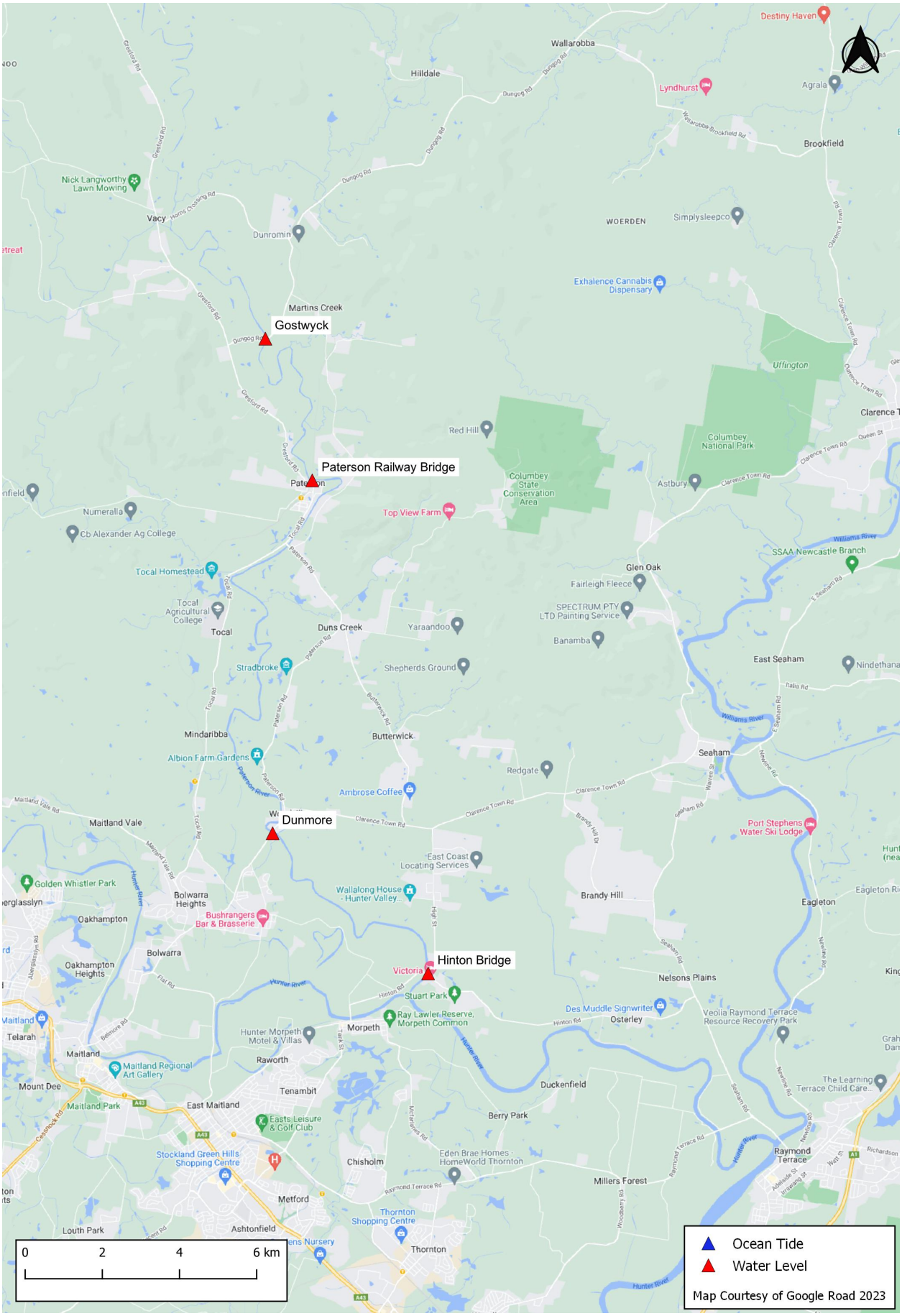
Oakhampton Railway Bridge (210475)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A139



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STATION LOCATIONS
PATERSON RIVER REGION

Manly Hydraulics Laboratory

MHL2971

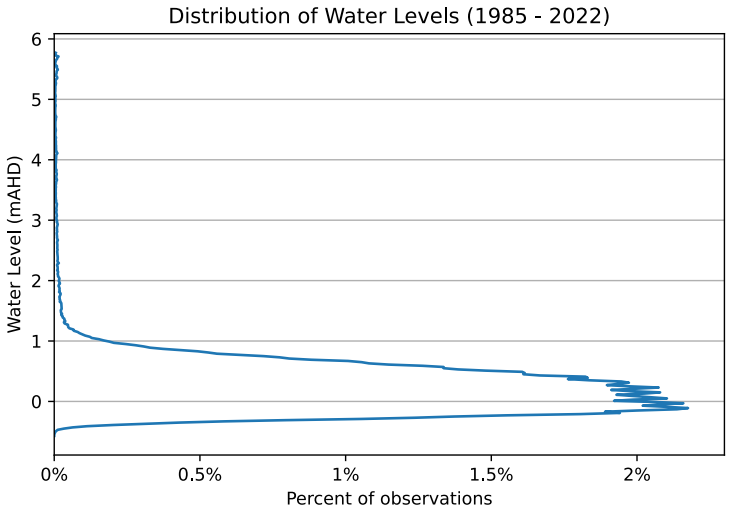
Figure

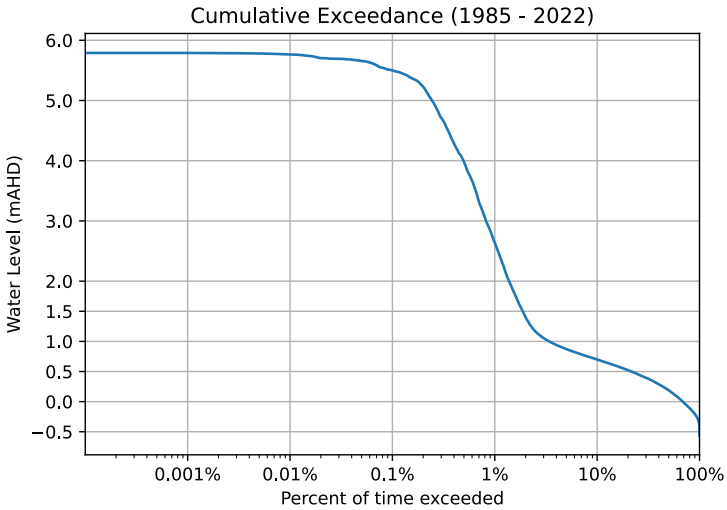
A140

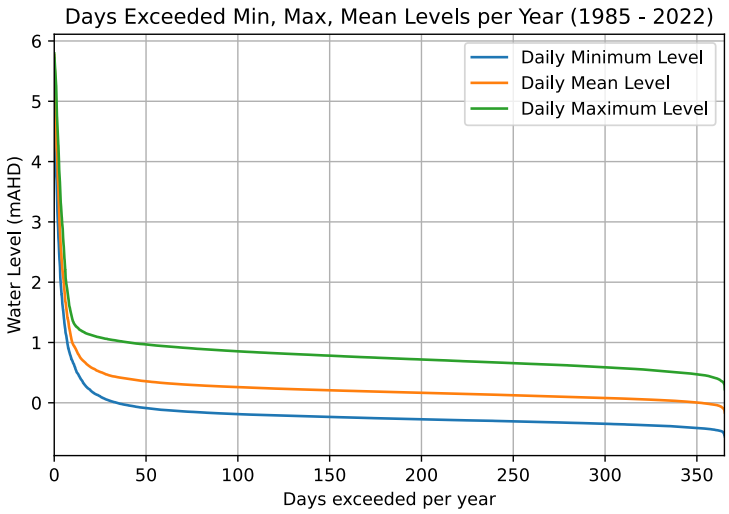
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.8	0.00067	862	862	0.067305
5.6	0.00077	984	1846	0.14414
5.4	0.00062	793	2639	0.20605
5.2	0.00038	481	3120	0.24361
5.0	0.00039	494	3614	0.28218
4.8	0.00047	597	4211	0.3288
4.6	0.00043	550	4761	0.37174
4.4	0.00053	674	5435	0.42437
4.2	0.00070	897	6332	0.49441
4.0	0.00057	730	7062	0.5514
3.8	0.00074	944	8006	0.62511
3.6	0.00054	687	8693	0.67875
3.4	0.00067	862	9555	0.74606
3.2	0.00076	979	10534	0.8225
3.0	0.00099	1273	11807	0.9219
2.8	0.00098	1255	13062	1.0199
2.6	0.00108	1379	14441	1.1276
2.4	0.00117	1504	15945	1.245
2.2	0.00135	1726	17671	1.3798
2.0	0.00173	2217	19888	1.5529
1.8	0.00202	2590	22478	1.7551
1.6	0.00247	3167	25645	2.0024
1.4	0.00387	4953	30598	2.3891
1.2	0.01020	13063	43661	3.4091
1.0	0.03197	40942	84603	6.6058
0.8	0.08350	106937	191540	14.956
0.6	0.14787	189385	380925	29.743
0.4	0.19161	245405	626330	48.904
0.2	0.19990	256024	882354	68.895
0.0	0.20549	263183	1145537	89.444
-0.2	0.10235	131089	1276626	99.679
-0.4	0.00321	4105	1280731	100

Station Information	
Station no.	210410
Station name	Hinton Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	373306
Northing	6379619

Summary Statistics	
Time interval (mins)	15
Start of record	19/03/1985
Highest water level recorded (m)	5.780
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.590
Date recorded	14/01/1988







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210410

NSW GOVERNMENT

Hinton Bridge (210410)
FREQUENCY DISTRIBUTION ANALYSIS

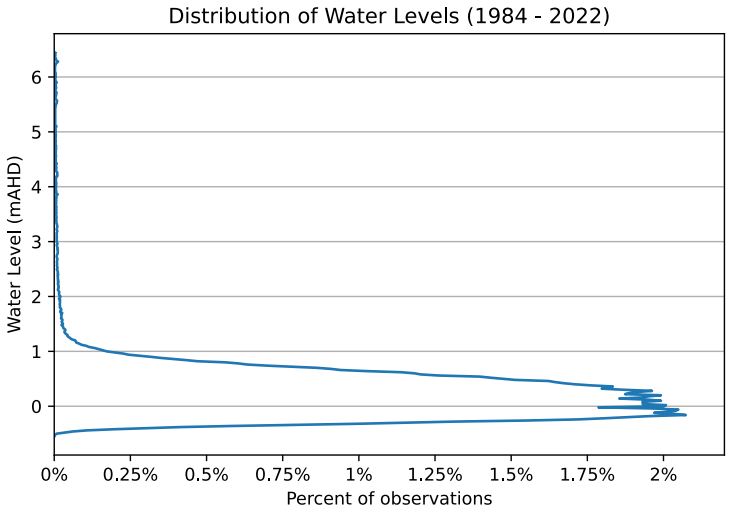
Manly Hydraulics Laboratory

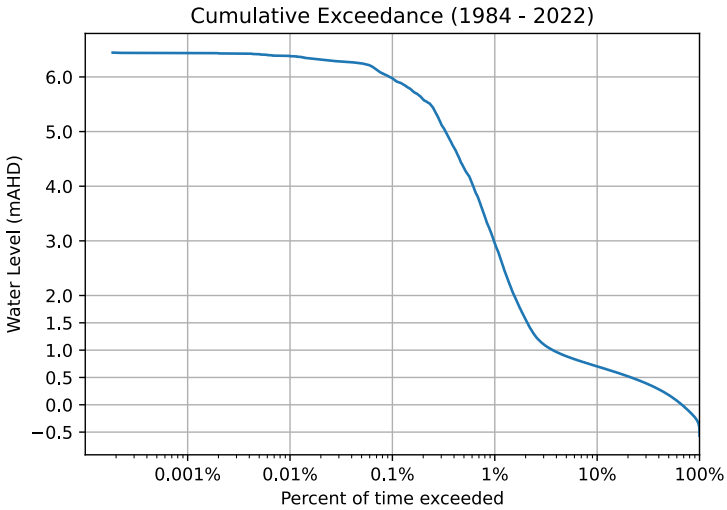
MHL2971
Figure
A141

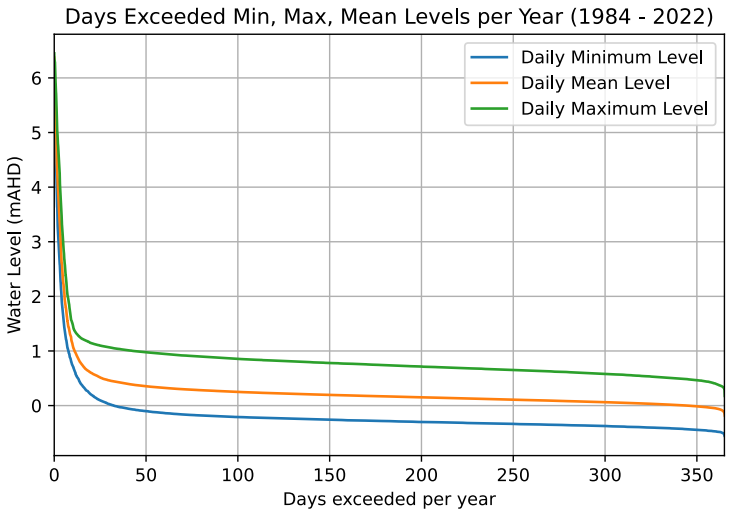
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.4	0.00056	717	717	0.055913
6.2	0.00032	407	1124	0.087652
6.0	0.00050	640	1764	0.13756
5.8	0.00053	675	2439	0.1902
5.6	0.00059	761	3200	0.24954
5.4	0.00034	431	3631	0.28315
5.2	0.00041	528	4159	0.32433
5.0	0.00046	586	4745	0.37002
4.8	0.00051	657	5402	0.42126
4.6	0.00053	674	6076	0.47382
4.4	0.00072	928	7004	0.54619
4.2	0.00063	814	7818	0.60966
4.0	0.00067	856	8674	0.67642
3.8	0.00065	828	9502	0.74098
3.6	0.00067	860	10362	0.80805
3.4	0.00082	1052	11414	0.89009
3.2	0.00084	1081	12495	0.97438
3.0	0.00098	1257	13752	1.0724
2.8	0.00096	1226	14978	1.168
2.6	0.00101	1299	16277	1.2693
2.4	0.00123	1577	17854	1.3923
2.2	0.00146	1877	19731	1.5387
2.0	0.00185	2371	22102	1.7236
1.8	0.00222	2853	24955	1.946
1.6	0.00267	3429	28384	2.2134
1.4	0.00422	5410	33794	2.6353
1.2	0.01041	13353	47147	3.6766
1.0	0.03084	39549	86696	6.7607
0.8	0.08156	104594	191290	14.917
0.6	0.14397	184616	375906	29.314
0.4	0.18430	236339	612245	47.744
0.2	0.19469	249666	861911	67.214
0.0	0.19884	254977	1116888	87.097
-0.2	0.12191	156332	1273220	99.288
-0.4	0.00706	9051	1282271	99.994

Station Information	
Station no.	210409
Station name	Dunmore
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	369277
Northing	6383252

Summary Statistics	
Time interval (mins)	15
Start of record	06/11/1984
Highest water level recorded (m)	6.454
Date recorded	09/03/2001
Lowest water level recorded (m)	-0.562
Date recorded	05/09/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210409

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Dunmore (210409)
FREQUENCY DISTRIBUTION ANALYSIS

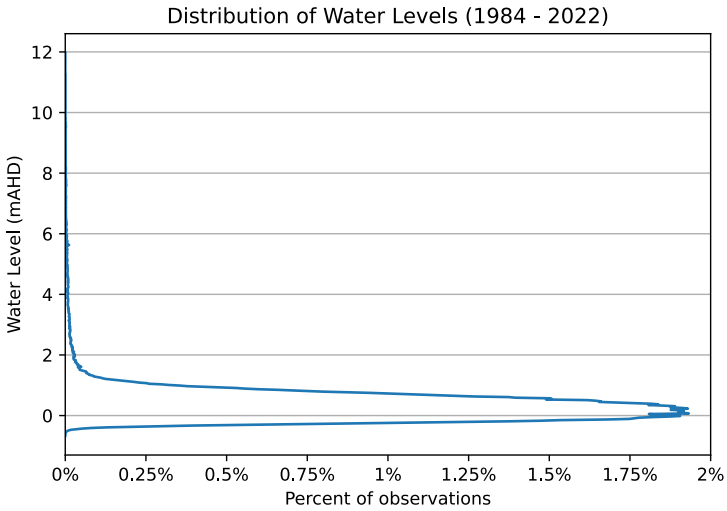
Manly Hydraulics Laboratory

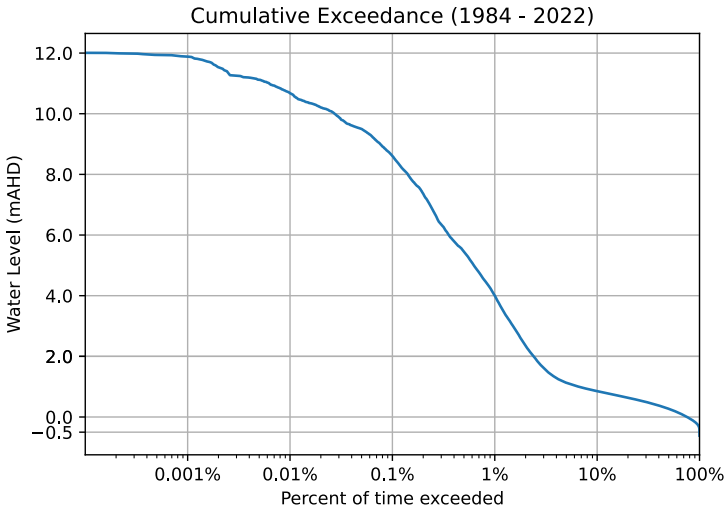
MHL2971
Figure
A142

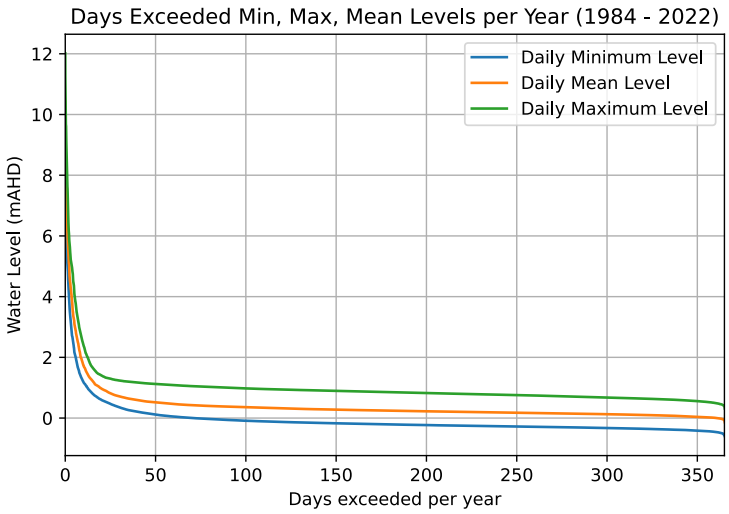
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.2	0.00001	17	17	0.0013356
11.8	0.00001	14	31	0.0024355
11.4	0.00004	49	80	0.006285
11.0	0.00005	59	139	0.01092
10.6	0.00009	118	257	0.020191
10.2	0.00012	147	404	0.031739
9.8	0.00024	303	707	0.055544
9.4	0.00021	262	969	0.076128
9.0	0.00024	308	1277	0.10033
8.6	0.00024	311	1588	0.12476
8.2	0.00031	396	1984	0.15587
7.8	0.00041	516	2500	0.19641
7.4	0.00036	461	2961	0.23263
7.0	0.00036	464	3425	0.26908
6.6	0.00055	705	4130	0.32447
6.2	0.00072	918	5048	0.39659
5.8	0.00117	1490	6538	0.51365
5.4	0.00110	1406	7944	0.62411
5.0	0.00134	1703	9647	0.7579
4.6	0.00168	2142	11789	0.92618
4.2	0.00150	1915	13704	1.0766
3.8	0.00181	2300	16004	1.2573
3.4	0.00250	3176	19180	1.5068
3.0	0.00280	3562	22742	1.7867
2.6	0.00363	4626	27368	2.1501
2.2	0.00518	6595	33963	2.6682
1.8	0.00887	11289	45252	3.5551
1.4	0.03030	38569	83821	6.5852
1.0	0.15669	199448	283269	22.254
0.6	0.34409	437976	721245	56.663
0.2	0.36110	459634	1180879	92.774
-0.2	0.07226	91981	1272860	100
-0.6	0.00000	2	1272862	100

Station Information	
Station no.	210406
Station name	Paterson Railway Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	370303
Northing	6392399

Summary Statistics	
Time interval (mins)	15
Start of record	11/12/1984
Highest water level recorded (m)	11.995
Date recorded	21/04/2015
Lowest water level recorded (m)	-0.690
Date recorded	14/01/1988







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210406

NSW GOVERNMENT

Paterson Railway Bridge (210406)
FREQUENCY DISTRIBUTION ANALYSIS

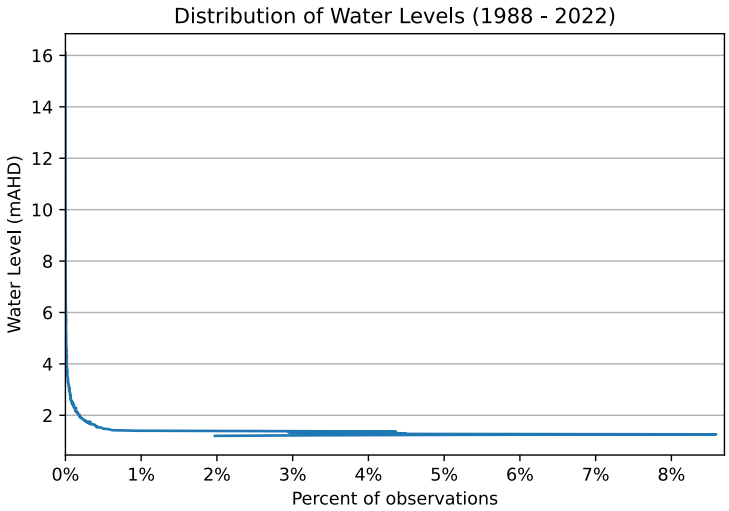
Manly Hydraulics Laboratory

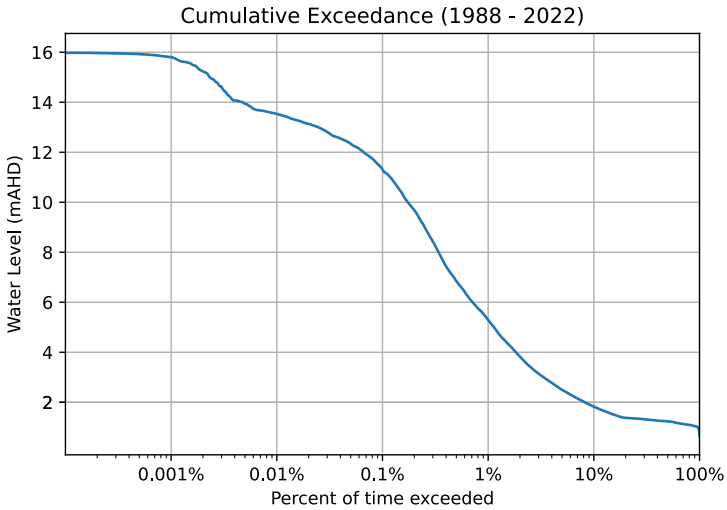
MHL2971
Figure
A143

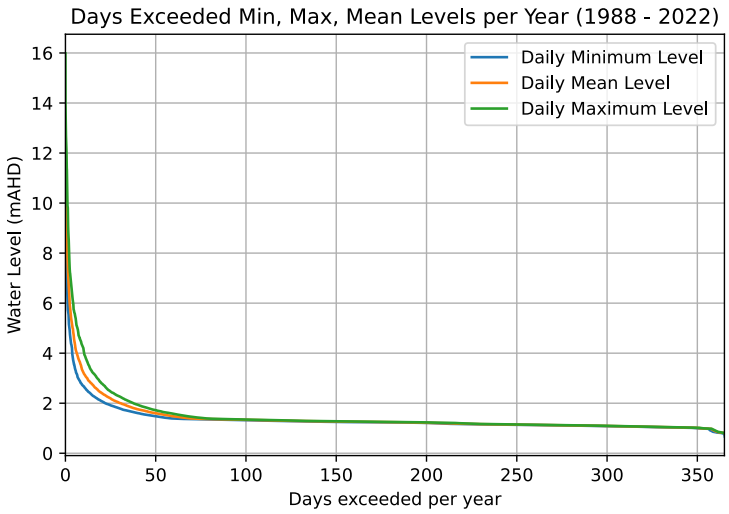
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
16.2	0.00001	14	14	0.0011908
15.7	0.00001	11	25	0.0021265
15.2	0.00001	9	34	0.002892
14.7	0.00001	9	43	0.0036576
14.2	0.00003	33	76	0.0064645
13.7	0.00011	133	209	0.017777
13.2	0.00015	175	384	0.032663
12.7	0.00024	284	668	0.05682
12.2	0.00026	301	969	0.082423
11.7	0.00023	267	1236	0.10513
11.2	0.00030	348	1584	0.13473
10.7	0.00026	309	1893	0.16102
10.2	0.00037	437	2330	0.19819
9.7	0.00037	433	2763	0.23502
9.2	0.00040	472	3235	0.27517
8.7	0.00047	547	3782	0.3217
8.2	0.00049	573	4355	0.37043
7.7	0.00064	749	5104	0.43414
7.2	0.00097	1135	6239	0.53069
6.7	0.00121	1422	7661	0.65164
6.2	0.00177	2080	9741	0.82857
5.7	0.00211	2483	12224	1.0398
5.2	0.00240	2825	15049	1.2801
4.7	0.00383	4506	19555	1.6633
4.2	0.00463	5449	25004	2.1268
3.7	0.00750	8823	33827	2.8773
3.2	0.01368	16088	49915	4.2457
2.7	0.02403	28255	78170	6.6491
2.2	0.05039	59236	137406	11.688
1.7	0.46043	541303	678709	57.731
1.2	0.42269	496937	1175646	100
0.7	0.00000	1	1175647	100

Station Information	
Station no.	210402
Station name	Gostwyck
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	369088
Northing	6396074

Summary Statistics	
Time interval (mins)	15
Start of record	13/10/1988
Highest water level recorded (m)	16.123
Date recorded	21/04/2015
Lowest water level recorded (m)	1.182
Date recorded	30/07/2018







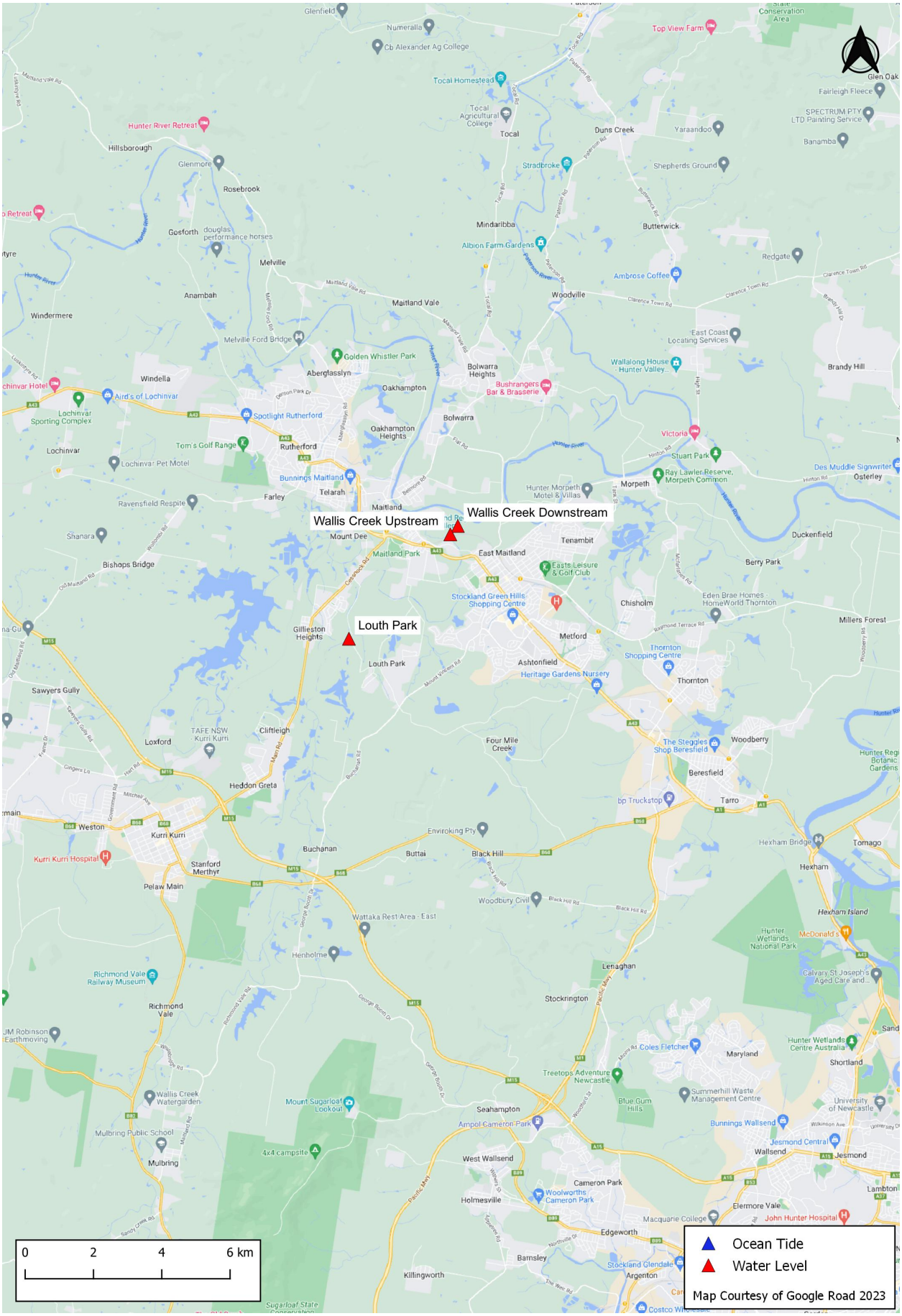
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210402

NSW GOVERNMENT

Gostwyck (210402)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A144



NSW GOVERNMENT

STATION LOCATIONS
WALLIS CREEK REGION

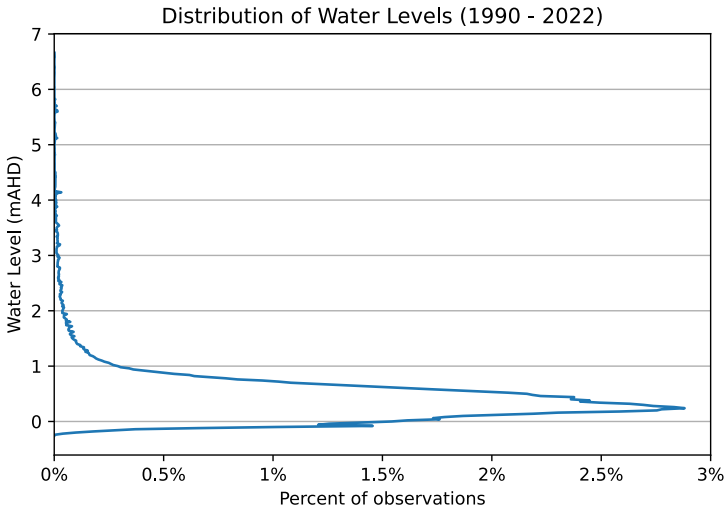
Manly Hydraulics Laboratory

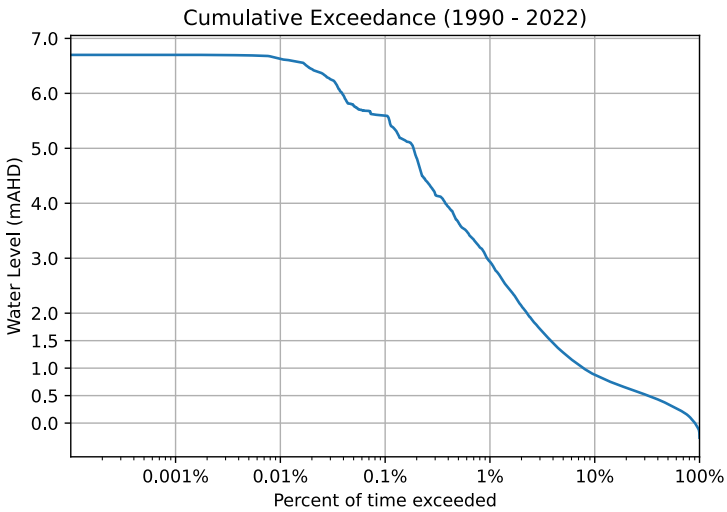
MHL2971
Figure
A145

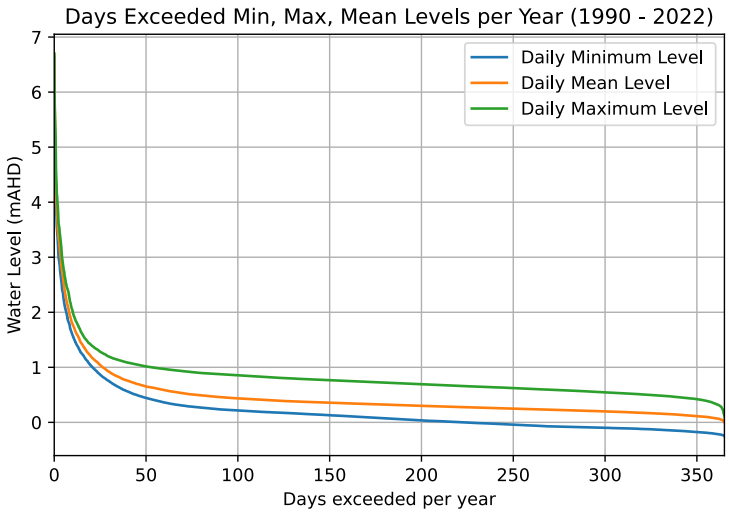
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.7	0.00016	179	179	0.016169
6.5	0.00010	107	286	0.025834
6.3	0.00008	90	376	0.033964
6.1	0.00006	65	441	0.039835
5.9	0.00018	195	636	0.057449
5.7	0.00051	563	1199	0.1083
5.5	0.00019	208	1407	0.12709
5.3	0.00046	513	1920	0.17343
5.1	0.00018	198	2118	0.19132
4.9	0.00017	193	2311	0.20875
4.7	0.00014	160	2471	0.2232
4.5	0.00048	533	3004	0.27135
4.3	0.00073	810	3814	0.34452
4.1	0.00069	760	4574	0.41317
3.9	0.00067	743	5317	0.48028
3.7	0.00113	1249	6566	0.5931
3.5	0.00131	1451	8017	0.72417
3.3	0.00157	1742	9759	0.88152
3.1	0.00153	1689	11448	1.0341
2.9	0.00188	2084	13532	1.2223
2.7	0.00214	2368	15900	1.4362
2.5	0.00309	3426	19326	1.7457
2.3	0.00309	3426	22752	2.0552
2.1	0.00419	4644	27396	2.4747
1.9	0.00571	6320	33716	3.0455
1.7	0.00754	8346	42062	3.7994
1.5	0.01085	12012	54074	4.8845
1.3	0.01663	18415	72489	6.5479
1.1	0.02923	32362	104851	9.4711
0.9	0.07066	78224	183075	16.537
0.7	0.15777	174660	357735	32.314
0.5	0.23643	261744	619479	55.957
0.3	0.25788	285491	904970	81.745
0.1	0.15618	172906	1077876	97.364
-0.1	0.02634	29165	1107041	99.998

Station Information	
Station no.	210428
Station name	Wallis Creek Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	366420
Northing	6376950

Summary Statistics	
Time interval (mins)	15
Start of record	30/04/1990
Highest water level recorded (m)	6.679
Date recorded	23/04/2015
Lowest water level recorded (m)	-0.280
Date recorded	10/03/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210428

NSW GOVERNMENT

Wallis Creek Upstream (210428)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A146

Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
9.7	0.00004	53	53	0.0042176
9.4	0.00004	52	105	0.0083557
9.1	0.00003	38	143	0.01138
8.8	0.00029	360	503	0.040028
8.5	0.00034	431	934	0.074326
8.2	0.00027	340	1274	0.10138
7.9	0.00030	382	1656	0.13178
7.6	0.00041	515	2171	0.17276
7.3	0.00032	397	2568	0.20436
7.0	0.00049	613	3181	0.25314
6.7	0.00058	724	3905	0.31075
6.4	0.00064	810	4715	0.37521
6.1	0.00051	640	5355	0.42614
5.8	0.00053	665	6020	0.47906
5.5	0.00067	845	6865	0.5463
5.2	0.00076	953	7818	0.62214
4.9	0.00070	879	8697	0.69209
4.6	0.00080	1002	9699	0.77183
4.3	0.00107	1340	11039	0.87846
4.0	0.00139	1749	12788	1.0176
3.7	0.00173	2171	14959	1.1904
3.4	0.00212	2660	17619	1.4021
3.1	0.00235	2951	20570	1.6369
2.8	0.00314	3945	24515	1.9509
2.5	0.00371	4663	29178	2.3219
2.2	0.00553	6948	36126	2.8748
1.9	0.00793	9966	46092	3.6679
1.6	0.01046	13142	59234	4.7137
1.3	0.01937	24345	83579	6.6511
1.0	0.05661	71141	154720	12.312
0.7	0.17465	219474	374194	29.778
0.4	0.30130	378624	752818	59.908
0.1	0.32503	408437	1161255	92.41
-0.2	0.07590	95372	1256627	100

NSW GOVERNMENT

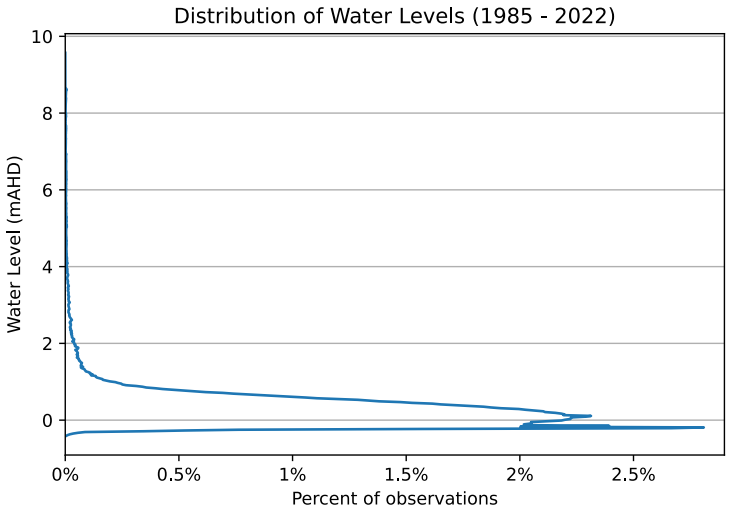
Wallis Creek Downstream (210457)
FREQUENCY DISTRIBUTION ANALYSIS

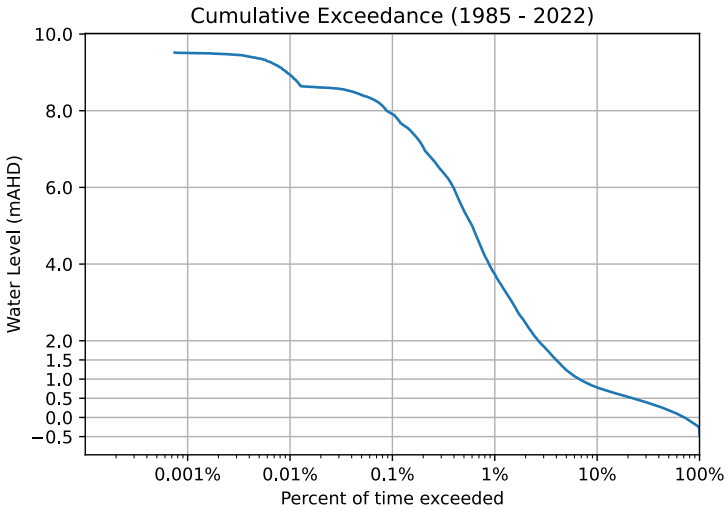
Manly Hydraulics Laboratory

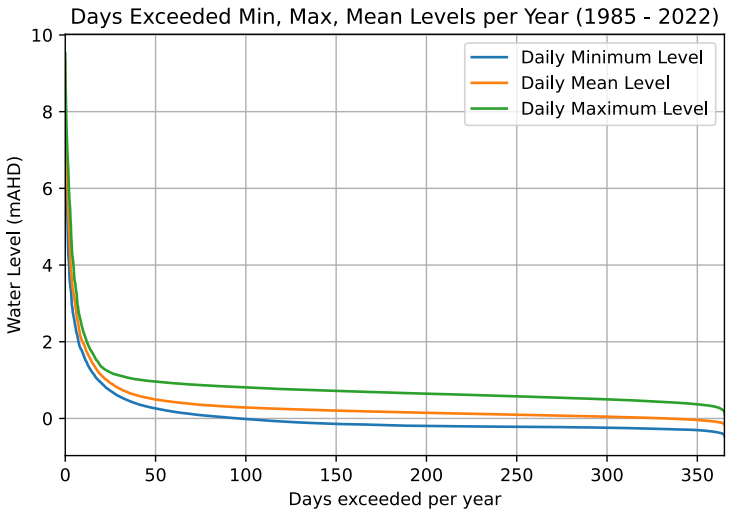
MHL2971
Table
A147

Station Information	
Station no.	210457
Station name	Wallis Creek Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	366440
Northing	6376997

Summary Statistics	
Time interval (mins)	15
Start of record	29/03/1985
Highest water level recorded (m)	9.589
Date recorded	11/06/2007
Lowest water level recorded (m)	-0.429
Date recorded	18/10/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210457

NSW GOVERNMENT

Wallis Creek Downstream (210457)
FREQUENCY DISTRIBUTION ANALYSIS

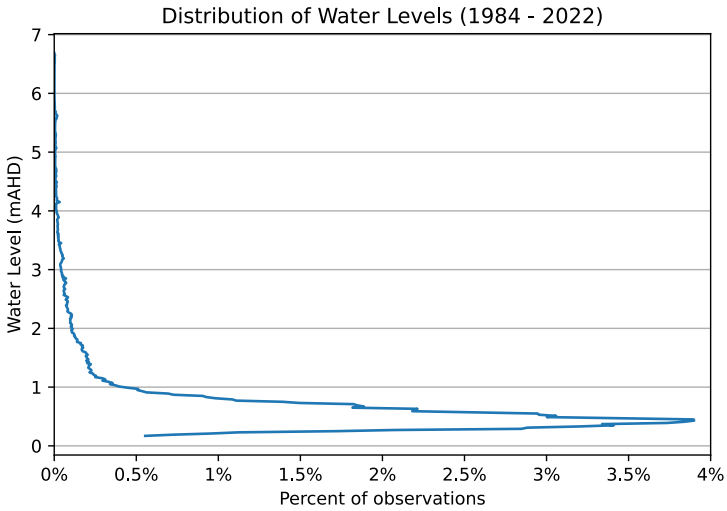
Manly Hydraulics Laboratory

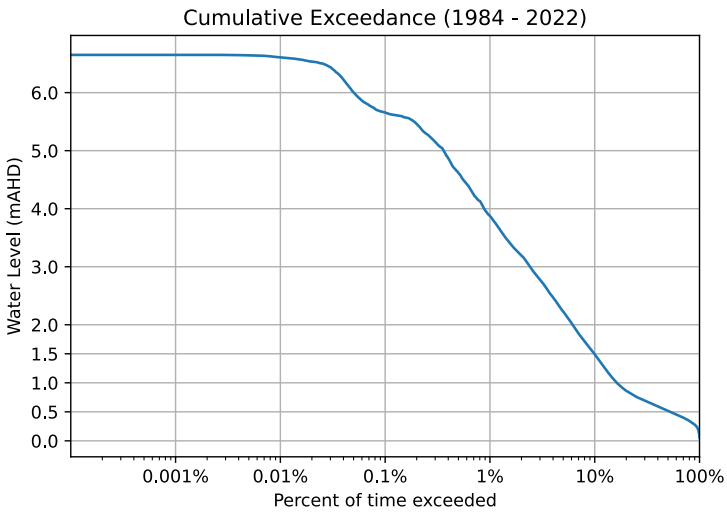
MHL2971
Figure
A147

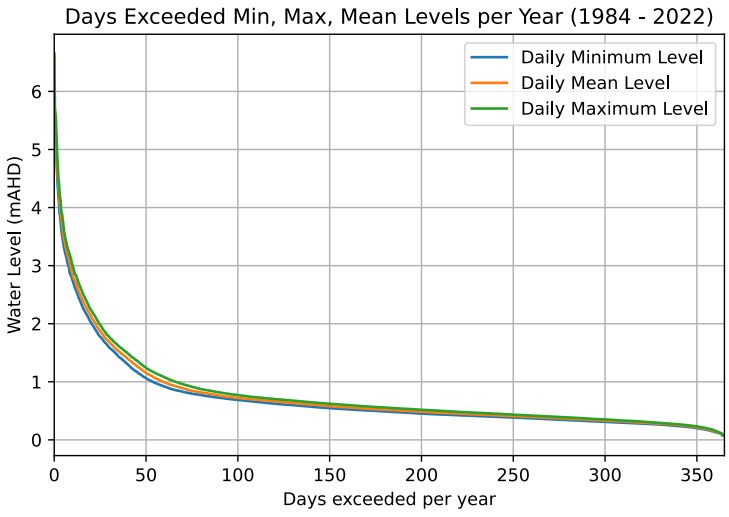
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.7	0.00025	318	318	0.025453
6.5	0.00011	143	461	0.036898
6.3	0.00008	104	565	0.045222
6.1	0.00012	147	712	0.056988
5.9	0.00026	322	1034	0.082761
5.7	0.00106	1330	2364	0.18921
5.5	0.00053	668	3032	0.24268
5.3	0.00077	959	3991	0.31944
5.1	0.00072	896	4887	0.39115
4.9	0.00065	808	5695	0.45583
4.7	0.00097	1209	6904	0.55259
4.5	0.00117	1463	8367	0.66969
4.3	0.00153	1911	10278	0.82265
4.1	0.00143	1784	12062	0.96544
3.9	0.00214	2668	14730	1.179
3.7	0.00231	2880	17610	1.4095
3.5	0.00333	4157	21767	1.7422
3.3	0.00480	6000	27767	2.2225
3.1	0.00413	5160	32927	2.6355
2.9	0.00614	7666	40593	3.2491
2.7	0.00645	8061	48654	3.8943
2.5	0.00776	9701	58355	4.6707
2.3	0.00967	12076	70431	5.6373
2.1	0.01064	13290	83721	6.701
1.9	0.01388	17342	101063	8.0891
1.7	0.01825	22801	123864	9.914
1.5	0.02075	25926	149790	11.989
1.3	0.02508	31331	181121	14.497
1.1	0.04229	52838	233959	18.726
0.9	0.10555	131870	365829	29.281
0.7	0.22956	286806	652635	52.237
0.5	0.34781	434549	1087184	87.018
0.3	0.12530	156551	1243735	99.548
0.1	0.00452	5645	1249380	100

Station Information	
Station no.	210453
Station name	Louth Park
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	363251
Northing	6373693

Summary Statistics	
Time interval (mins)	15
Start of record	11/12/1984
Highest water level recorded (m)	6.697
Date recorded	23/04/2015
Lowest water level recorded (m)	0.150
Date recorded	20/02/2007







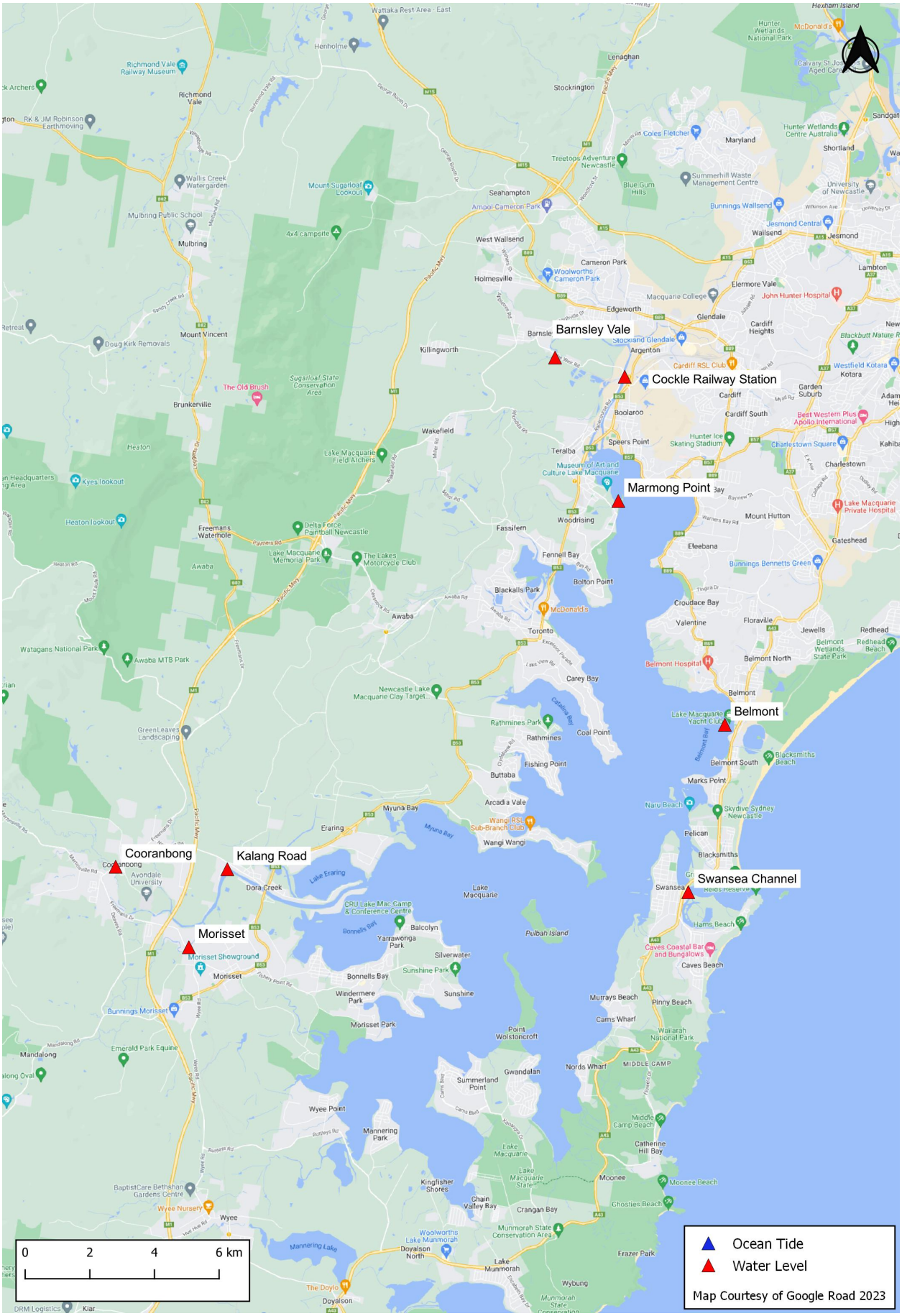
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-210453

NSW GOVERNMENT

Louth Park (210453)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A148



NSW GOVERNMENT

STATION LOCATIONS
LAKE MACQUARIE REGION

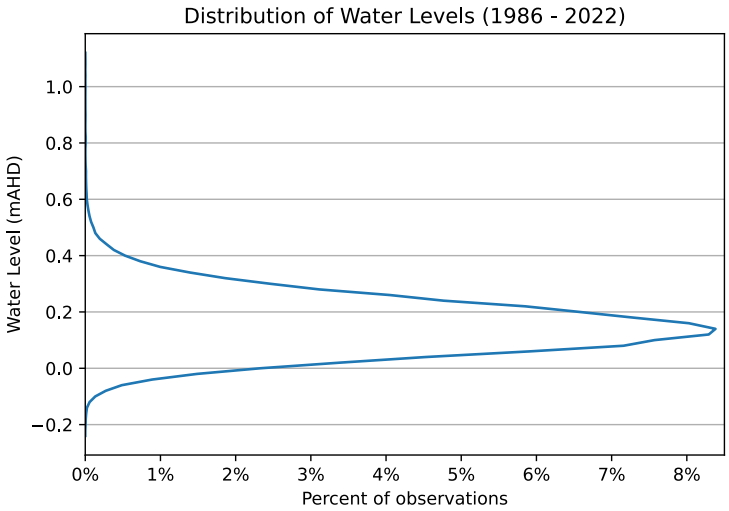
Manly Hydraulics Laboratory

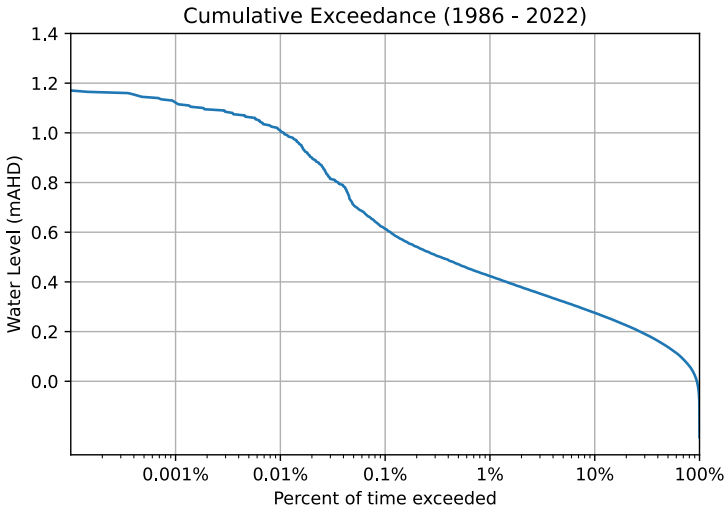
MHL2971
Figure
A149

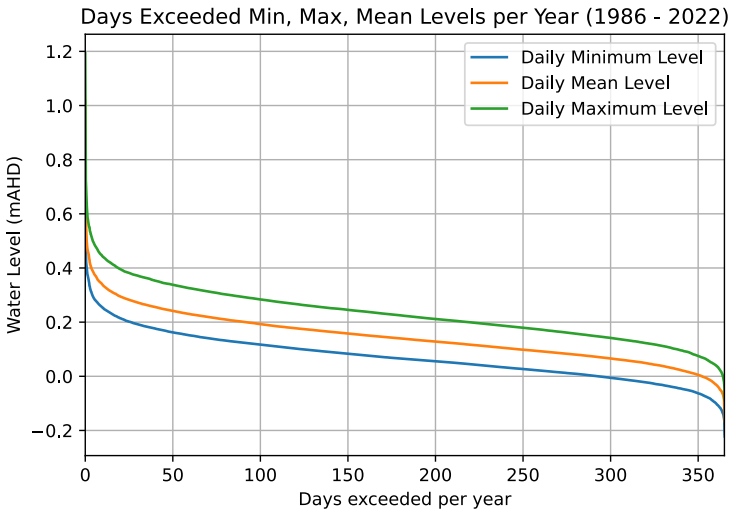
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.2	0.00002	23	23	0.0019049
1.1	0.00009	108	131	0.010849
1.0	0.00009	111	242	0.020043
0.9	0.00016	191	433	0.035861
0.8	0.00018	212	645	0.053419
0.7	0.00059	712	1357	0.11239
0.6	0.00226	2728	4085	0.33832
0.5	0.01100	13286	17371	1.4387
0.4	0.05508	66510	83881	6.9471
0.3	0.20239	244371	328252	27.186
0.2	0.38559	465572	793824	65.745
0.1	0.28559	344829	1138653	94.304
0.0	0.05460	65930	1204583	99.764
-0.1	0.00231	2794	1207377	99.996
-0.2	0.00004	53	1207430	100

Station Information	
Station no.	211460
Station name	Marmong Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	370992
Northing	6350370

Summary Statistics	
Time interval (mins)	15
Start of record	12/06/1986
Highest water level recorded (m)	1.140
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.260
Date recorded	31/01/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211460

NSW GOVERNMENT

Marmong Point (211460)
FREQUENCY DISTRIBUTION ANALYSIS

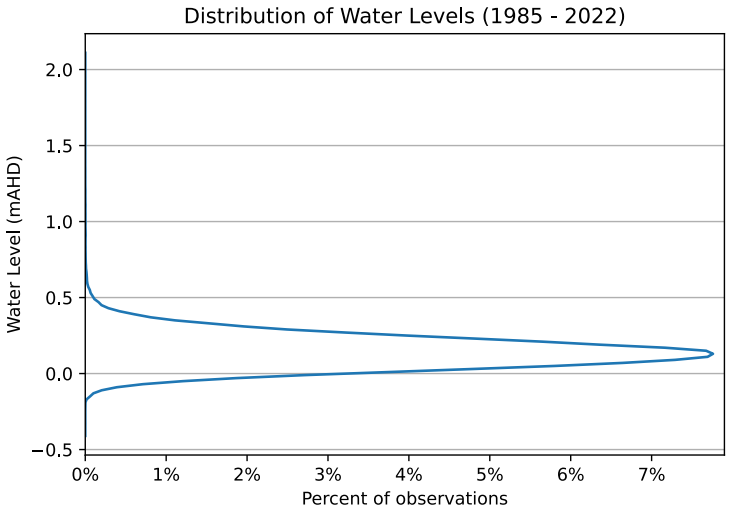
Manly Hydraulics Laboratory

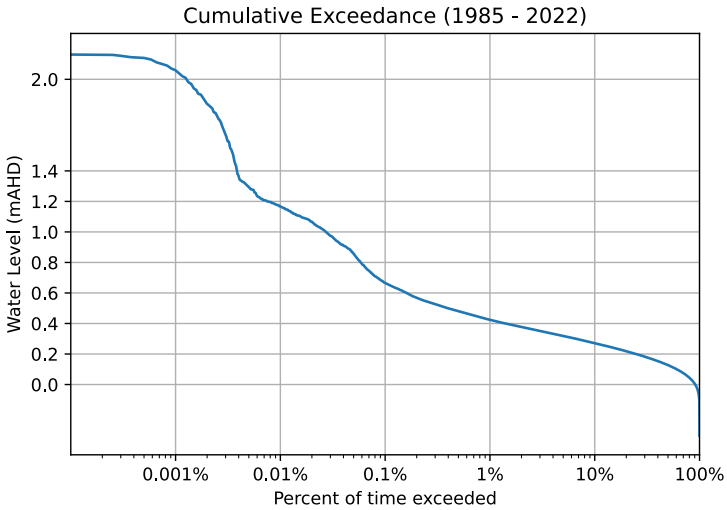
MHL2971
Figure
A150

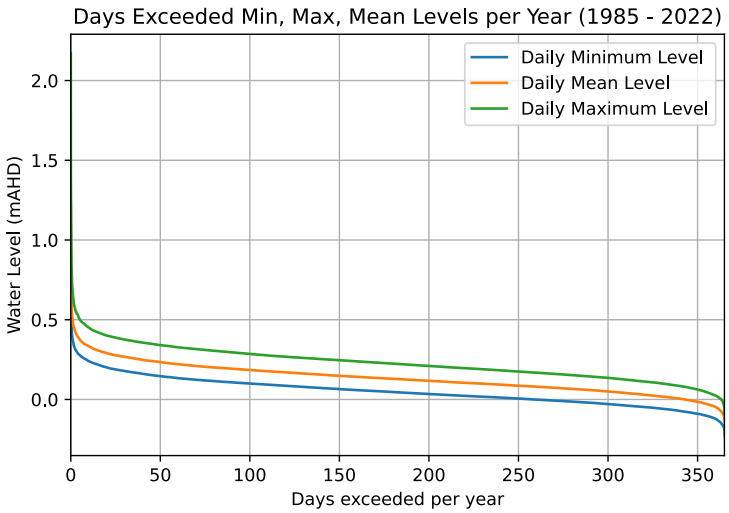
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00001	10	10	0.00082889
2.1	0.00000	6	16	0.0013262
2.0	0.00000	6	22	0.0018236
1.9	0.00000	6	28	0.0023209
1.8	0.00000	6	34	0.0028182
1.7	0.00000	4	38	0.0031498
1.6	0.00000	6	44	0.0036471
1.5	0.00000	3	47	0.0038958
1.4	0.00001	12	59	0.0048905
1.3	0.00003	32	91	0.0075429
1.2	0.00008	99	190	0.015749
1.1	0.00011	137	327	0.027105
1.0	0.00015	184	511	0.042356
0.9	0.00016	193	704	0.058354
0.8	0.00026	310	1014	0.08405
0.7	0.00076	911	1925	0.15956
0.6	0.00237	2857	4782	0.39638
0.5	0.01003	12099	16881	1.3993
0.4	0.05223	63007	79888	6.6219
0.3	0.18223	219845	299733	24.845
0.2	0.35762	431437	731170	60.606
0.1	0.30346	366100	1097270	90.952
0.0	0.08504	102595	1199865	99.456
-0.1	0.00541	6527	1206392	99.997
-0.2	0.00003	31	1206423	100
-0.3	0.00000	4	1206427	100

Station Information	
Station no.	211455
Station name	Cockle Railway Station
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	371189
Northing	6354213

Summary Statistics	
Time interval (mins)	15
Start of record	25/02/1985
Highest water level recorded (m)	2.130
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.430
Date recorded	29/11/1985







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211455

NSW GOVERNMENT

Cockle Railway Station (211455)
FREQUENCY DISTRIBUTION ANALYSIS

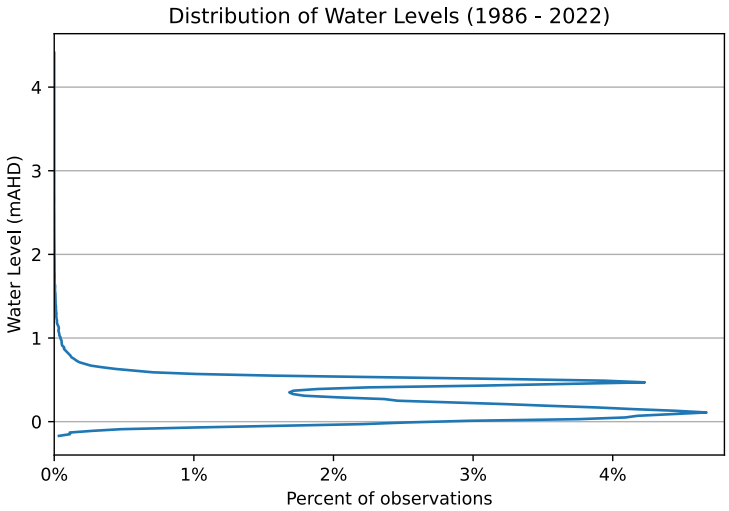
Manly Hydraulics Laboratory

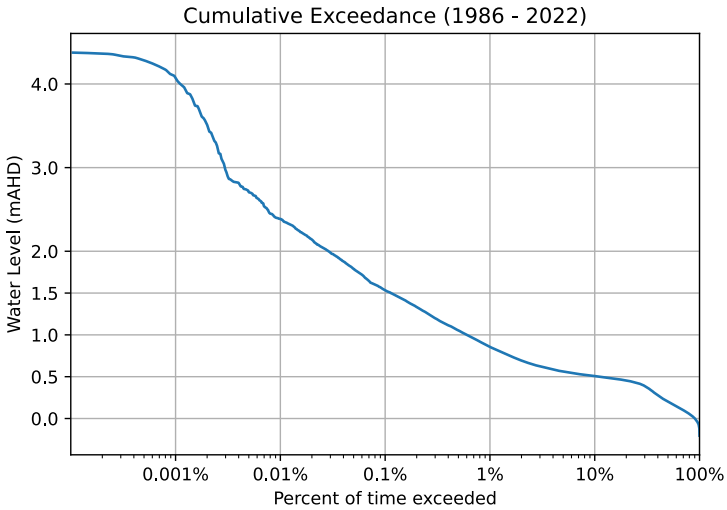
MHL2971
Figure
A151

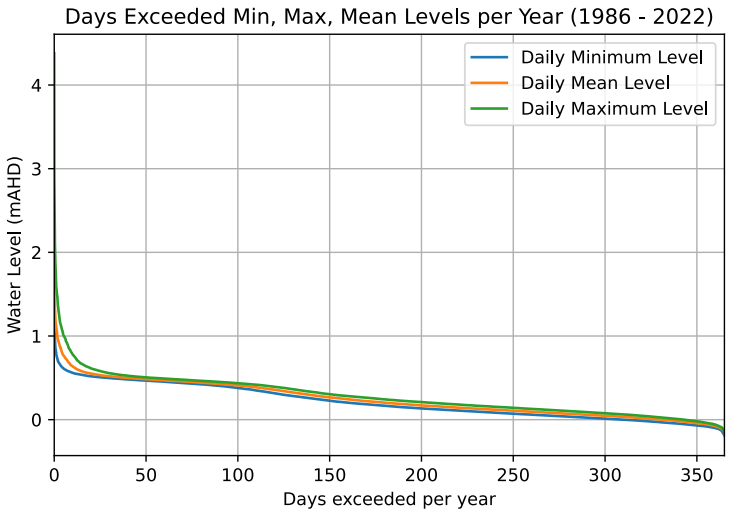
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.4	0.00001	9	9	0.00072805
4.2	0.00000	5	14	0.0011325
4.0	0.00000	5	19	0.001537
3.8	0.00000	4	23	0.0018606
3.6	0.00000	5	28	0.002265
3.4	0.00000	4	32	0.0025886
3.2	0.00000	5	37	0.0029931
3.0	0.00001	14	51	0.0041256
2.8	0.00002	30	81	0.0065524
2.6	0.00003	32	113	0.0091411
2.4	0.00008	98	211	0.017069
2.2	0.00012	145	356	0.028798
2.0	0.00020	248	604	0.04886
1.8	0.00032	390	994	0.080409
1.6	0.00080	995	1989	0.1609
1.4	0.00138	1703	3692	0.29866
1.2	0.00299	3695	7387	0.59757
1.0	0.00654	8085	15472	1.2516
0.8	0.02311	28566	44038	3.5624
0.6	0.25221	311772	355810	28.783
0.4	0.21160	261574	617384	49.943
0.2	0.40314	498349	1115733	90.256
0.0	0.09743	120446	1236179	100
-0.2	0.00000	2	1236181	100

Station Information	
Station no.	211450
Station name	Barnsley Vale
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	369036
Northing	6354808

Summary Statistics	
Time interval (mins)	15
Start of record	10/02/1986
Highest water level recorded (m)	4.420
Date recorded	08/06/2007
Lowest water level recorded (m)	-0.190
Date recorded	03/10/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211450

NSW GOVERNMENT

Barnsley Vale (211450)
FREQUENCY DISTRIBUTION ANALYSIS

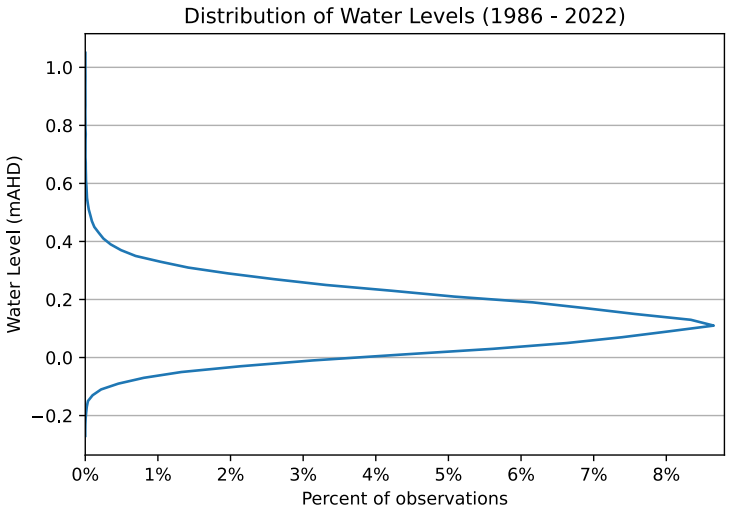
Manly Hydraulics Laboratory

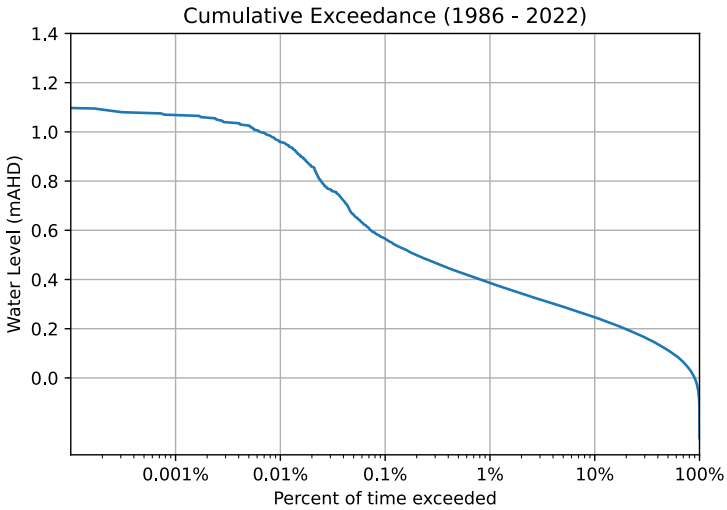
MHL2971
Figure
A152

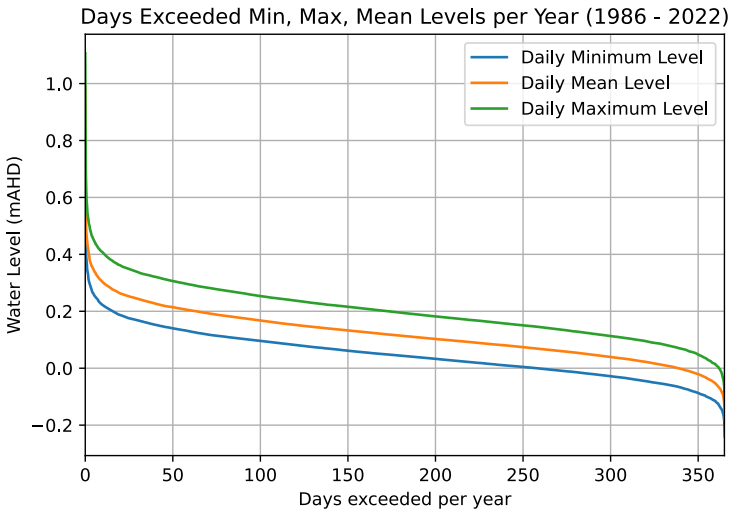
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.1	0.00006	79	79	0.0062802
1.0	0.00009	116	195	0.015502
0.9	0.00009	110	305	0.024247
0.8	0.00019	242	547	0.043485
0.7	0.00030	372	919	0.073058
0.6	0.00124	1555	2474	0.19667
0.5	0.00610	7670	10144	0.80642
0.4	0.03354	42185	52329	4.16
0.3	0.15321	192731	245060	19.481
0.2	0.35930	451972	697032	55.412
0.1	0.34285	431275	1128307	89.697
0.0	0.09718	122245	1250552	99.415
-0.1	0.00574	7224	1257776	99.989
-0.2	0.00011	136	1257912	100

Station Information	
Station no.	211461
Station name	Belmont
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	374287
Northing	6343446

Summary Statistics	
Time interval (mins)	15
Start of record	28/05/1986
Highest water level recorded (m)	1.060
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.290
Date recorded	14/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211461

NSW GOVERNMENT

Belmont (211461)
FREQUENCY DISTRIBUTION ANALYSIS

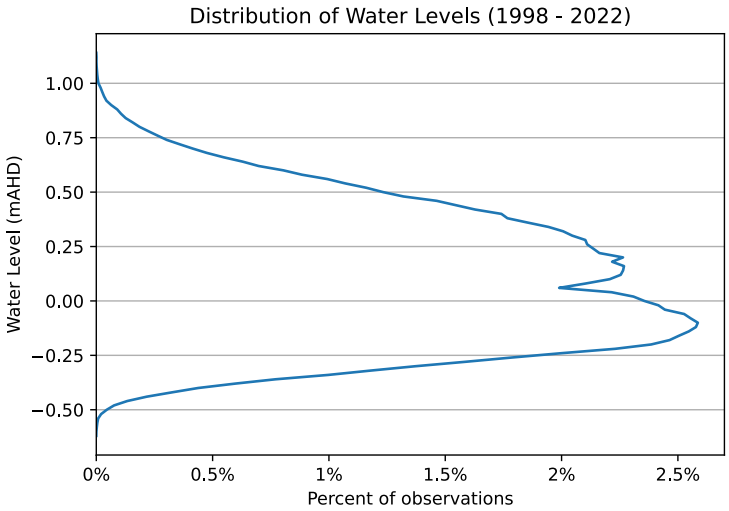
Manly Hydraulics Laboratory

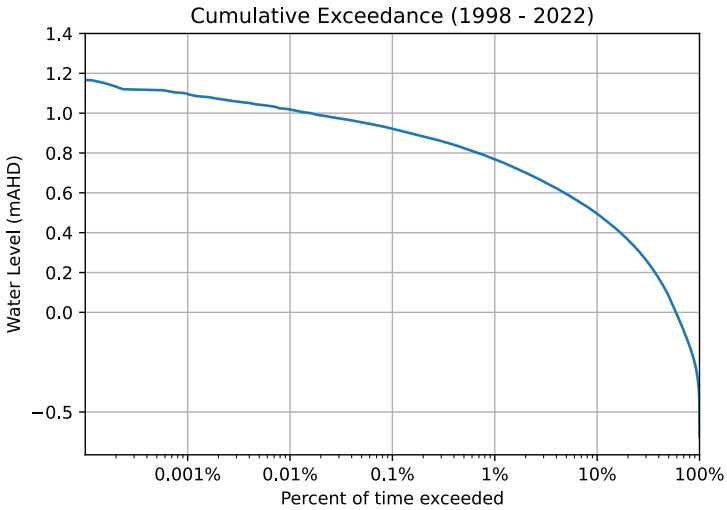
MHL2971
Figure
A153

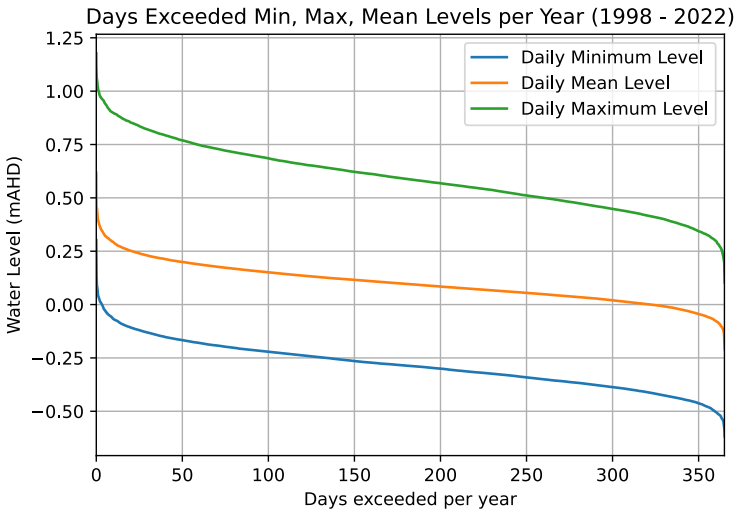
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.2	0.00001	9	9	0.0010519
1.1	0.00015	128	137	0.016012
1.0	0.00130	1115	1252	0.14633
0.9	0.00543	4650	5902	0.6898
0.8	0.01333	11406	17308	2.0229
0.7	0.02766	23663	40971	4.7885
0.6	0.04912	42030	83001	9.7008
0.5	0.07190	61522	144523	16.891
0.4	0.09314	79688	224211	26.205
0.3	0.10557	90329	314540	36.762
0.2	0.11268	96413	410953	48.03
0.1	0.10824	92613	503566	58.854
0.0	0.12297	105218	608784	71.152
-0.1	0.12679	108480	717264	83.83
-0.2	0.09985	85430	802694	93.815
-0.3	0.04914	42047	844741	98.729
-0.4	0.01190	10180	854921	99.919
-0.5	0.00080	688	855609	100
-0.6	0.00000	4	855613	100

Station Information	
Station no.	211462
Station name	Swansea Channel
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	373155
Northing	6338270

Summary Statistics	
Time interval (mins)	15
Start of record	22/01/1998
Highest water level recorded (m)	1.156
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.640
Date recorded	04/01/2007







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211462

NSW GOVERNMENT

Swansea Channel (211462)
FREQUENCY DISTRIBUTION ANALYSIS

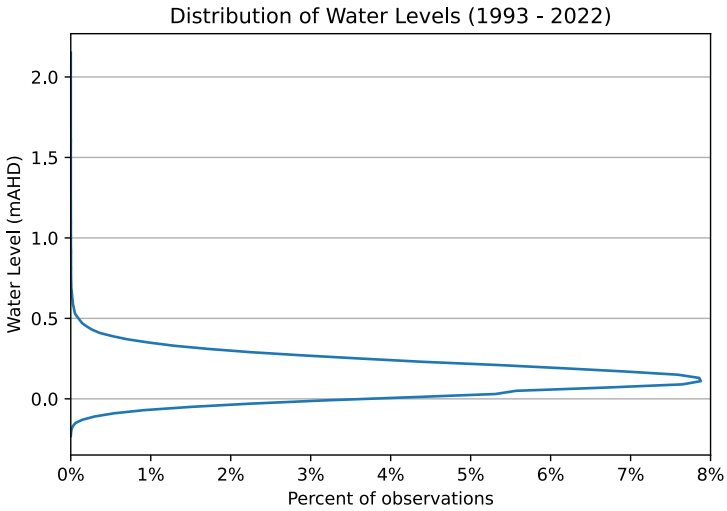
Manly Hydraulics Laboratory

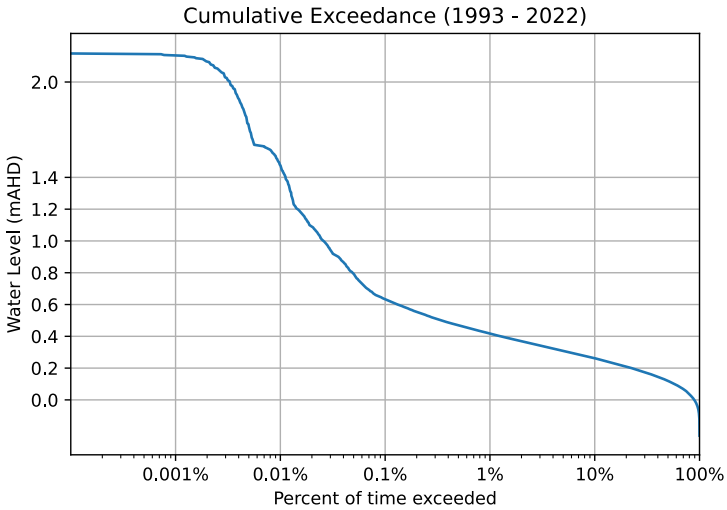
MHL2971
Figure
A154

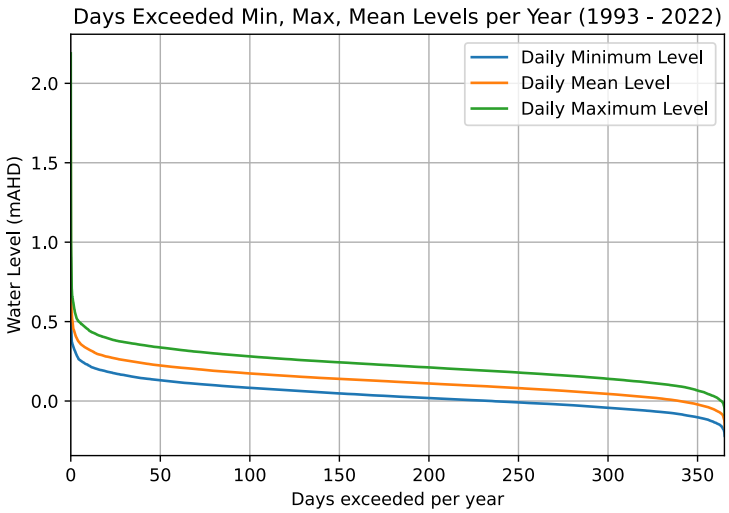
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00002	24	24	0.0023729
2.1	0.00001	10	34	0.0033616
2.0	0.00001	6	40	0.0039548
1.9	0.00001	7	47	0.0046469
1.8	0.00000	5	52	0.0051413
1.7	0.00001	12	64	0.0063277
1.6	0.00003	33	97	0.0095905
1.5	0.00002	17	114	0.011271
1.4	0.00001	15	129	0.012754
1.3	0.00002	19	148	0.014633
1.2	0.00004	44	192	0.018983
1.1	0.00007	69	261	0.025805
1.0	0.00010	102	363	0.03589
0.9	0.00013	134	497	0.049139
0.8	0.00018	186	683	0.067529
0.7	0.00064	649	1332	0.1317
0.6	0.00211	2130	3462	0.34229
0.5	0.00933	9434	12896	1.275
0.4	0.04489	45403	58299	5.7641
0.3	0.16683	168734	227033	22.447
0.2	0.35293	356957	583990	57.74
0.1	0.31366	317238	901228	89.105
0.0	0.10129	102451	1003679	99.235
-0.1	0.00758	7670	1011349	99.993
-0.2	0.00007	69	1011418	100

Station Information	
Station no.	211475
Station name	Kalang Road
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	358900
Northing	6338978

Summary Statistics	
Time interval (mins)	15
Start of record	30/09/1993
Highest water level recorded (m)	2.160
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.250
Date recorded	18/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211475

NSW GOVERNMENT

Kalang Road (211475)
FREQUENCY DISTRIBUTION ANALYSIS

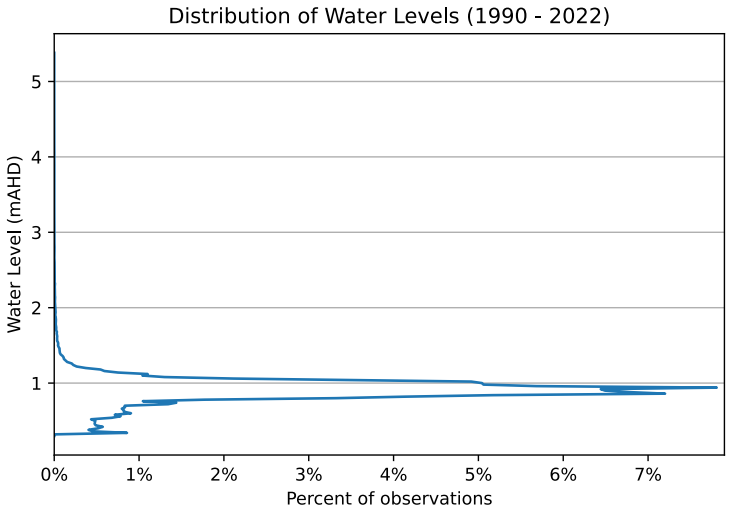
Manly Hydraulics Laboratory

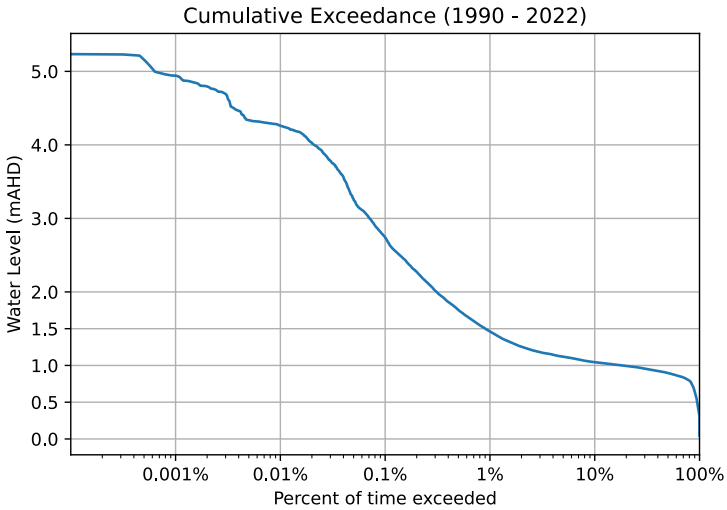
MHL2971
Figure
A155

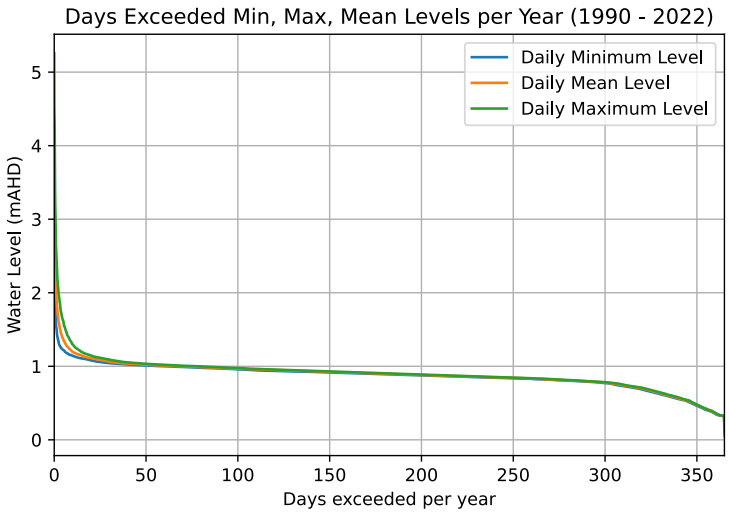
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.4	0.00001	6	6	0.0005448
5.2	0.00000	1	7	0.00063559
5.0	0.00001	15	22	0.0019976
4.8	0.00001	14	36	0.0032688
4.6	0.00001	14	50	0.00454
4.4	0.00009	96	146	0.013257
4.2	0.00008	85	231	0.020975
4.0	0.00008	88	319	0.028965
3.8	0.00009	104	423	0.038408
3.6	0.00006	70	493	0.044764
3.4	0.00008	87	580	0.052664
3.2	0.00018	203	783	0.071096
3.0	0.00021	230	1013	0.09198
2.8	0.00024	262	1275	0.11577
2.6	0.00046	507	1782	0.1618
2.4	0.00062	678	2460	0.22337
2.2	0.00085	937	3397	0.30844
2.0	0.00151	1658	5055	0.45899
1.8	0.00253	2784	7839	0.71178
1.6	0.00475	5231	13070	1.1867
1.4	0.01447	15940	29010	2.6341
1.2	0.16190	178305	207315	18.824
1.0	0.59823	658845	866160	78.647
0.8	0.13019	143382	1009542	91.666
0.6	0.06015	66244	1075786	97.681
0.4	0.02247	24744	1100530	99.927
0.2	0.00073	801	1101331	100

Station Information	
Station no.	211470
Station name	Cooranbong
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	355446
Northing	6339055

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1990
Highest water level recorded (m)	5.400
Date recorded	08/06/2007
Lowest water level recorded (m)	0.280
Date recorded	10/04/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211470

NSW GOVERNMENT

Cooranbong (211470)
FREQUENCY DISTRIBUTION ANALYSIS

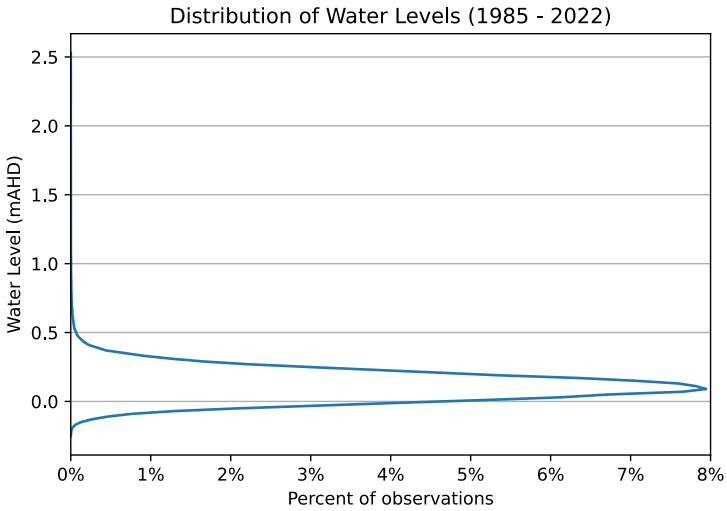
Manly Hydraulics Laboratory

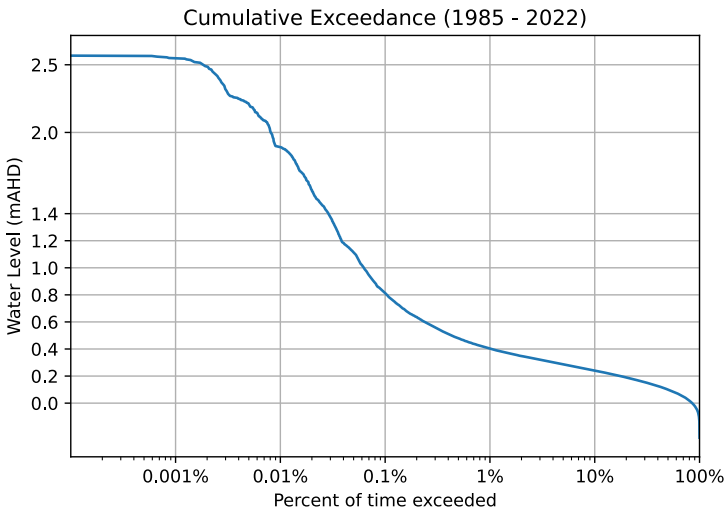
MHL2971
Figure
A156

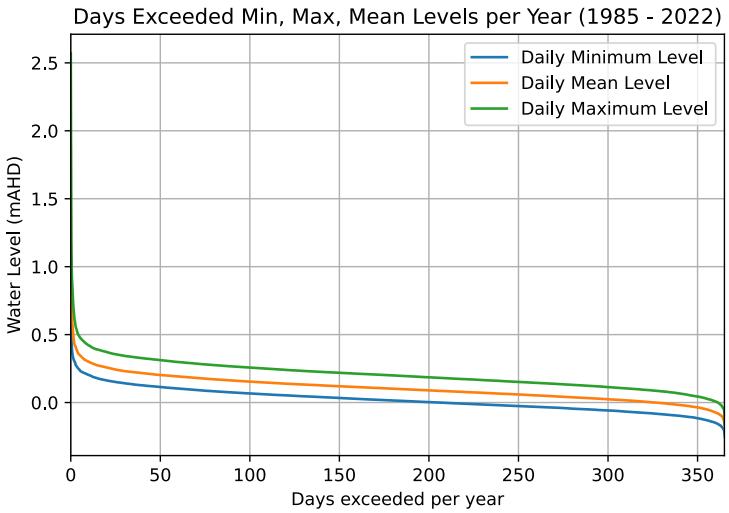
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.6	0.00002	23	23	0.0018602
2.5	0.00001	9	32	0.002588
2.4	0.00001	7	39	0.0031542
2.3	0.00002	24	63	0.0050952
2.2	0.00002	19	82	0.0066318
2.1	0.00001	18	100	0.0080876
2.0	0.00001	11	111	0.0089773
1.9	0.00004	55	166	0.013425
1.8	0.00003	34	200	0.016175
1.7	0.00003	39	239	0.019329
1.6	0.00004	46	285	0.02305
1.5	0.00006	71	356	0.028792
1.4	0.00005	58	414	0.033483
1.3	0.00005	60	474	0.038335
1.2	0.00014	168	642	0.051923
1.1	0.00011	133	775	0.062679
1.0	0.00015	186	961	0.077722
0.9	0.00026	318	1279	0.10344
0.8	0.00044	538	1817	0.14695
0.7	0.00090	1114	2931	0.23705
0.6	0.00189	2332	5263	0.42565
0.5	0.00607	7502	12765	1.0324
0.4	0.03085	38147	50912	4.1176
0.3	0.13442	166203	217115	17.559
0.2	0.32583	402880	619995	50.143
0.1	0.35087	433838	1053833	85.23
0.0	0.13494	166846	1220679	98.724
-0.1	0.01257	15539	1236218	99.981
-0.2	0.00019	240	1236458	100

Station Information	
Station no.	211480
Station name	Morisset
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	357710
Northing	6336566

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1985
Highest water level recorded (m)	2.540
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.270
Date recorded	01/02/1993







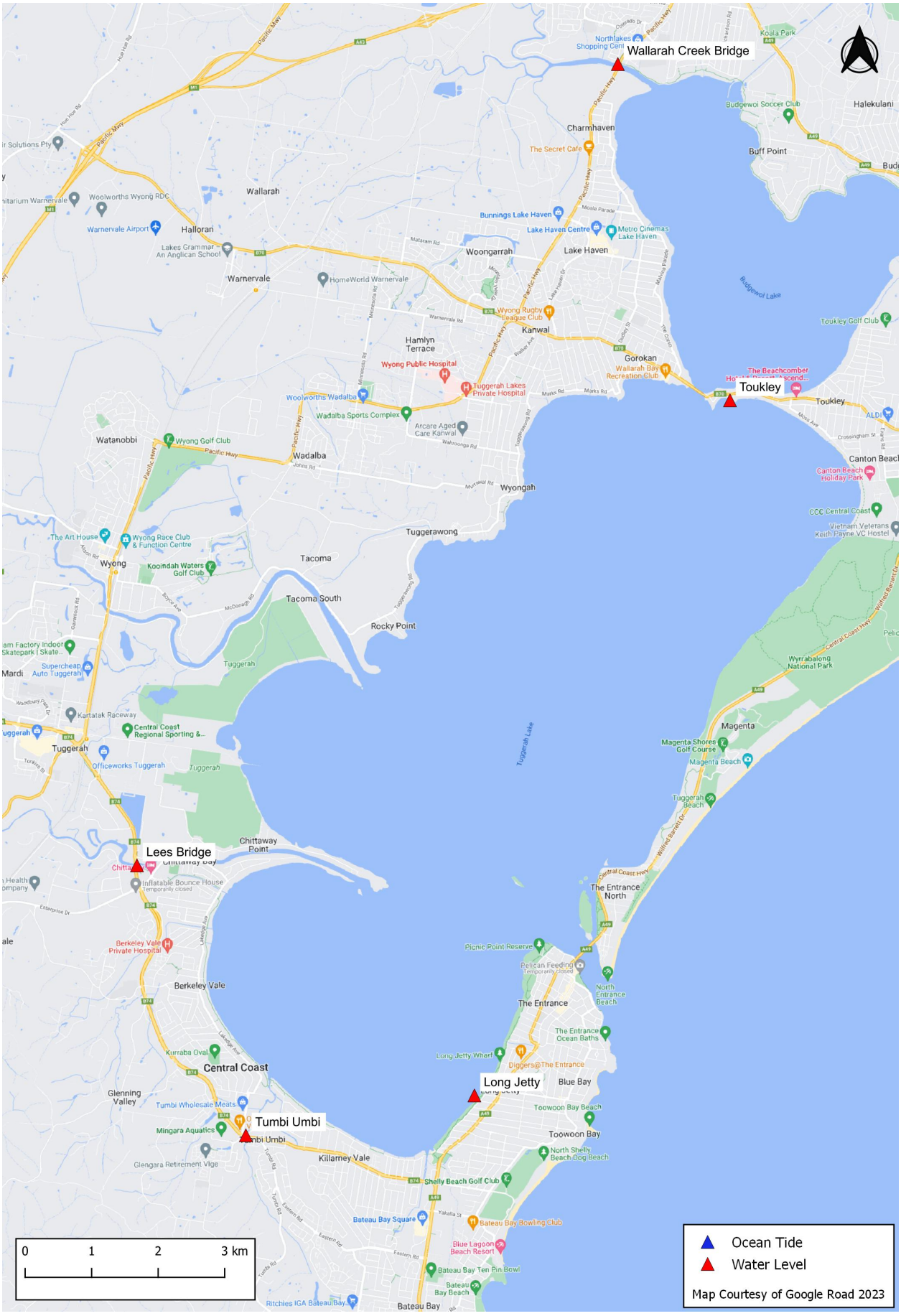
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211480

NSW GOVERNMENT

Morisset (211480)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A157



NSW GOVERNMENT

STATION LOCATIONS
TUGGERAH LAKES REGION

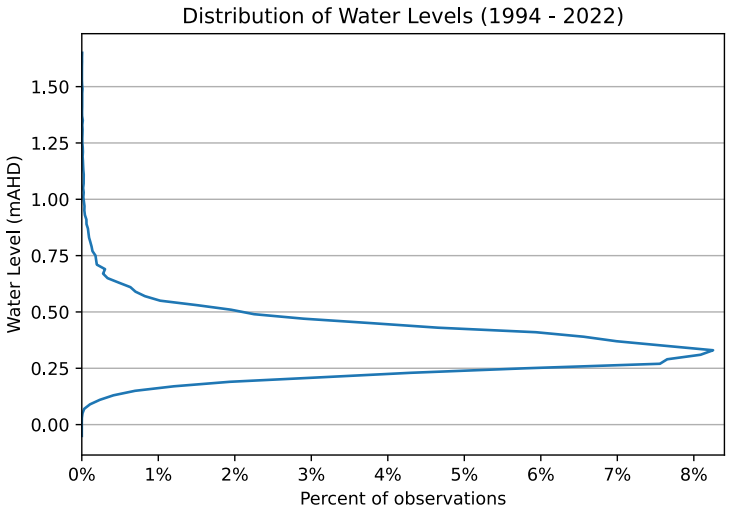
Manly Hydraulics Laboratory

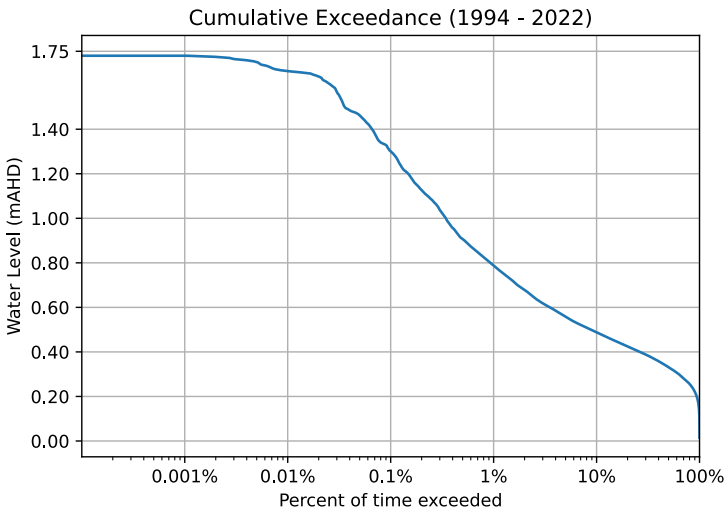
MHL2971
Figure
A158

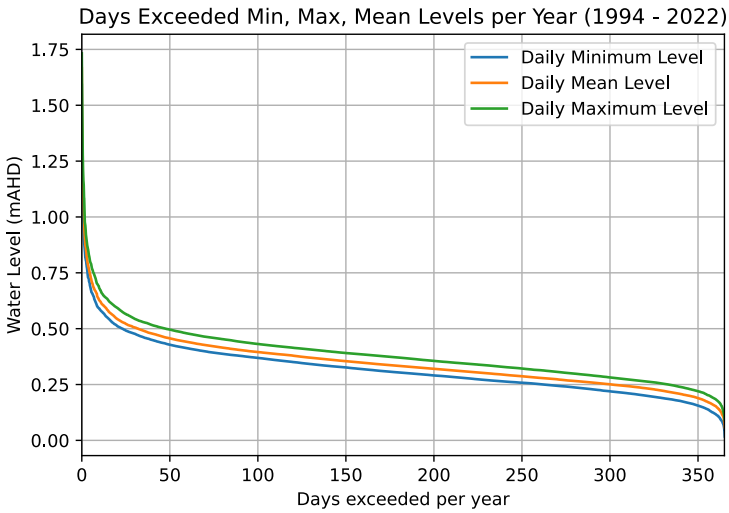
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00021	203	203	0.020979
1.6	0.00010	95	298	0.030797
1.5	0.00030	291	589	0.060871
1.4	0.00034	332	921	0.095183
1.3	0.00048	466	1387	0.14334
1.2	0.00080	776	2163	0.22354
1.1	0.00115	1113	3276	0.33857
1.0	0.00178	1725	5001	0.51684
0.9	0.00407	3938	8939	0.92382
0.8	0.00776	7506	16445	1.6995
0.7	0.01825	17663	34108	3.525
0.6	0.05324	51512	85620	8.8486
0.5	0.17366	168034	253654	26.214
0.4	0.36728	355389	609043	62.943
0.3	0.31003	299987	909030	93.946
0.2	0.05792	56043	965073	99.737
0.1	0.00257	2490	967563	99.995

Station Information	
Station no.	211420
Station name	Wallarah Creek Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	360913
Northing	6323587

Summary Statistics	
Time interval (mins)	15
Start of record	26/05/1994
Highest water level recorded (m)	1.655
Date recorded	11/02/2020
Lowest water level recorded (m)	-0.067
Date recorded	22/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211420

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Wallarah Creek Bridge (211420)
FREQUENCY DISTRIBUTION ANALYSIS

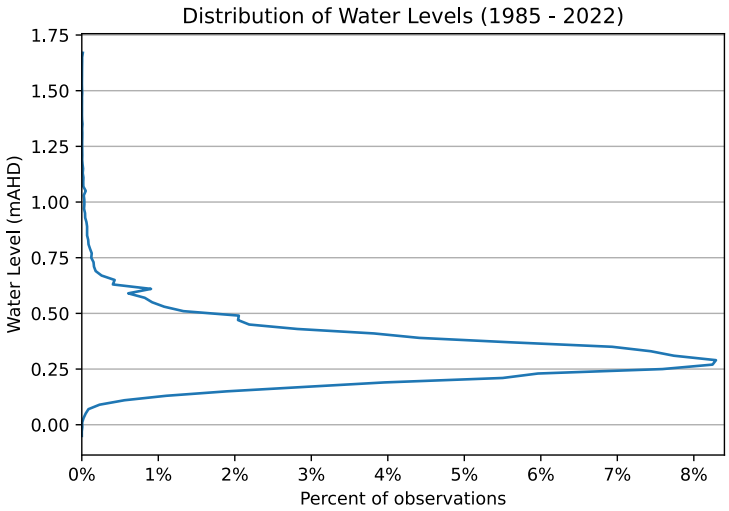
Manly Hydraulics Laboratory

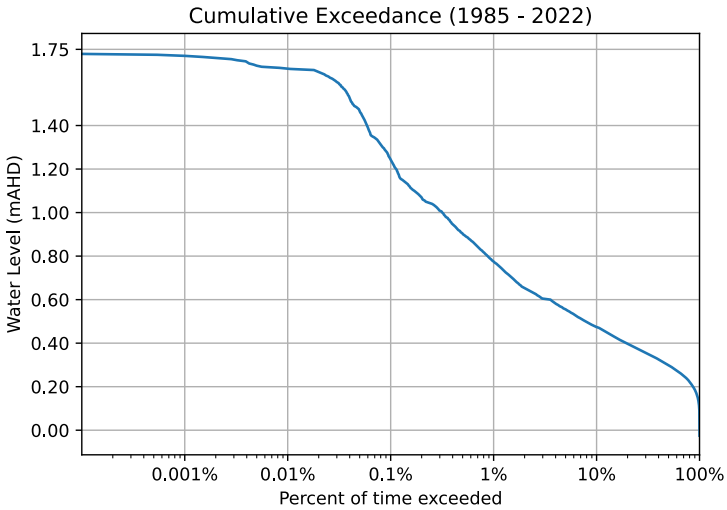
MHL2971
Figure
A159

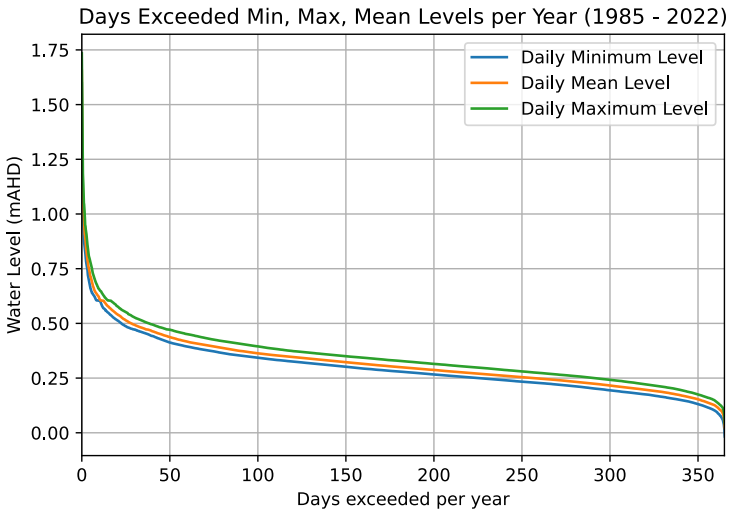
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00027	322	322	0.026779
1.6	0.00013	151	473	0.039336
1.5	0.00016	195	668	0.055553
1.4	0.00025	301	969	0.080585
1.3	0.00029	351	1320	0.10978
1.2	0.00057	681	2001	0.16641
1.1	0.00148	1774	3775	0.31394
1.0	0.00188	2262	6037	0.50206
0.9	0.00367	4419	10456	0.86955
0.8	0.00641	7703	18159	1.5102
0.7	0.02052	24676	42835	3.5623
0.6	0.04238	50966	93801	7.8008
0.5	0.11685	140507	234308	19.486
0.4	0.30046	361288	595596	49.532
0.3	0.36976	444615	1040211	86.507
0.2	0.12855	154576	1194787	99.362
0.1	0.00627	7538	1202325	99.989
0.0	0.00008	93	1202418	99.997

Station Information	
Station no.	211401
Station name	Toukley
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	362599
Northing	6318531

Summary Statistics	
Time interval (mins)	15
Start of record	14/02/1985
Highest water level recorded (m)	1.683
Date recorded	10/06/2007
Lowest water level recorded (m)	-0.073
Date recorded	26/11/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211401

NSW GOVERNMENT

Toukley (211401)
FREQUENCY DISTRIBUTION ANALYSIS

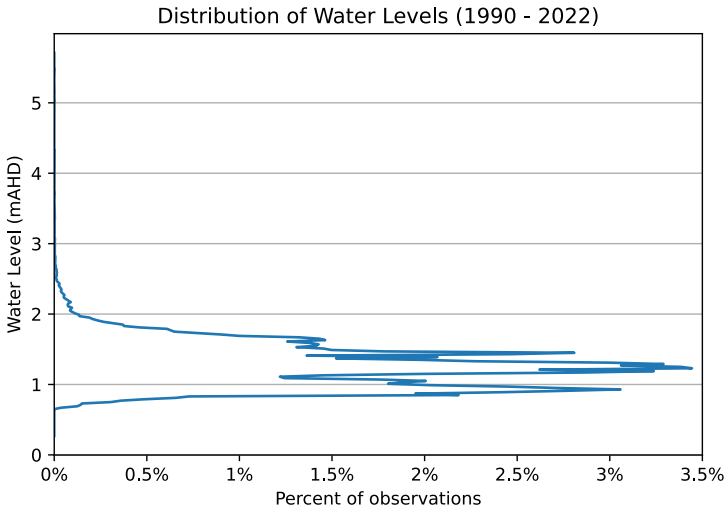
Manly Hydraulics Laboratory

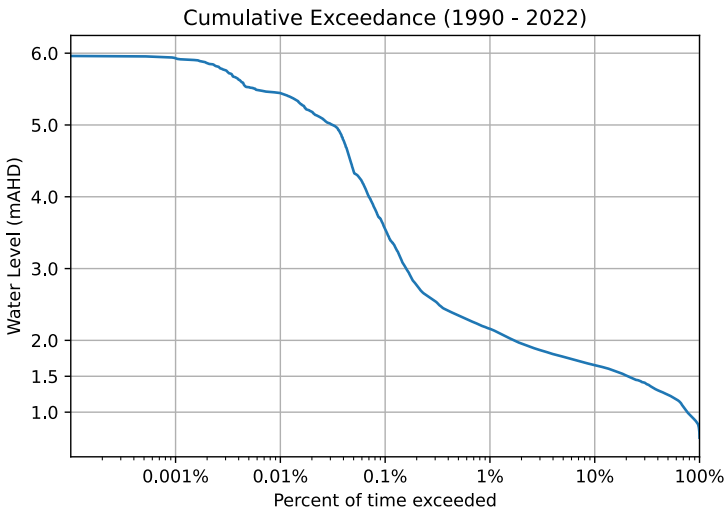
MHL2971
Figure
A160

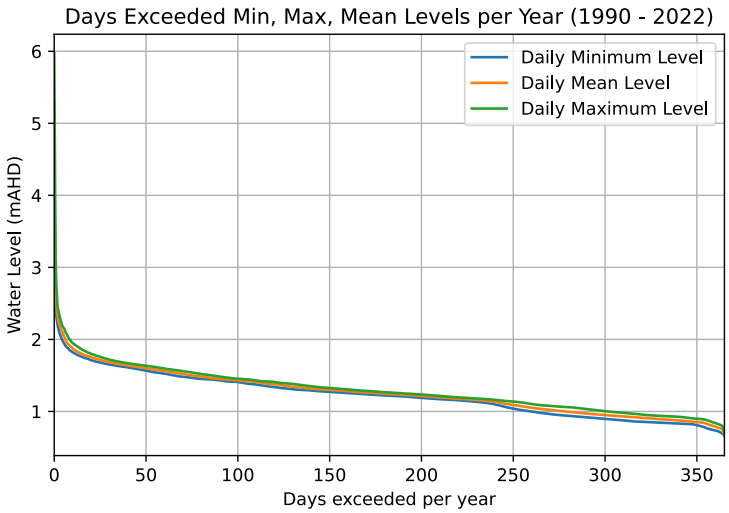
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.1	0.00002	18	18	0.0017179
5.9	0.00002	19	37	0.0035312
5.7	0.00002	24	61	0.0058216
5.5	0.00010	101	162	0.015461
5.3	0.00009	97	259	0.024718
5.1	0.00012	128	387	0.036934
4.9	0.00005	54	441	0.042088
4.7	0.00005	48	489	0.046668
4.5	0.00008	80	569	0.054303
4.3	0.00011	118	687	0.065565
4.1	0.00010	108	795	0.075872
3.9	0.00013	137	932	0.088947
3.7	0.00015	156	1088	0.10384
3.5	0.00021	218	1306	0.12464
3.3	0.00020	211	1517	0.14478
3.1	0.00029	301	1818	0.1735
2.9	0.00043	455	2273	0.21693
2.7	0.00107	1126	3399	0.32439
2.5	0.00261	2736	6135	0.5855
2.3	0.00644	6753	12888	1.23
2.1	0.01297	13587	26475	2.5267
1.9	0.04994	52326	78801	7.5205
1.7	0.13196	138266	217067	20.716
1.5	0.20077	210366	427433	40.793
1.3	0.27310	286161	713594	68.103
1.1	0.20983	219868	933462	89.086
0.9	0.10679	111892	1045354	99.765
0.7	0.00235	2462	1047816	100

Station Information	
Station no.	211417
Station name	Wyong Weir Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	351596
Northing	6316778

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1990
Highest water level recorded (m)	5.721
Date recorded	09/06/2007
Lowest water level recorded (m)	0.252
Date recorded	09/12/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211417

NSW GOVERNMENT

Wyong Weir Upstream (211417)
FREQUENCY DISTRIBUTION ANALYSIS

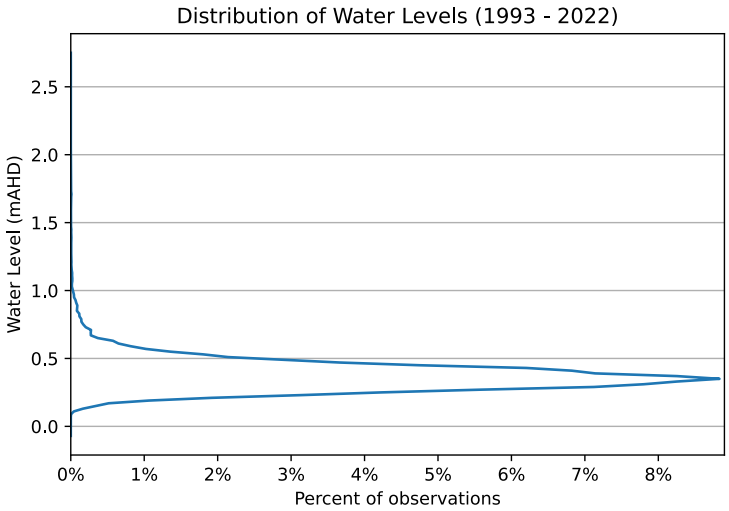
Manly Hydraulics Laboratory

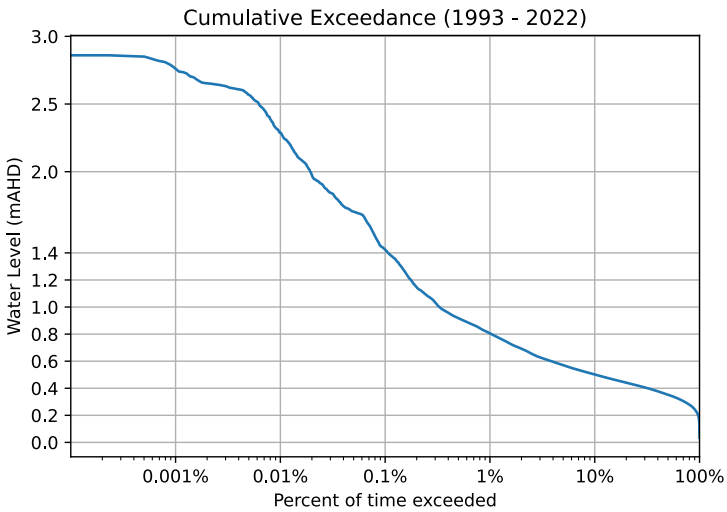
MHL2971
Figure
A161

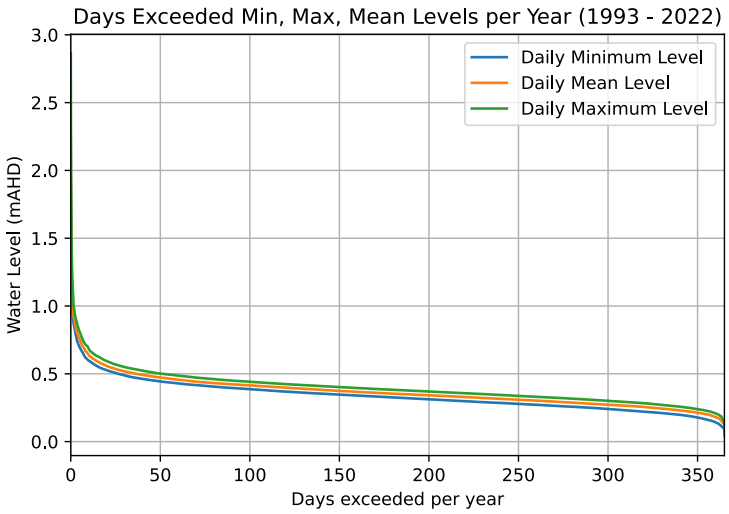
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.9	0.00001	9	9	0.00089027
2.8	0.00001	6	15	0.0014838
2.7	0.00003	31	46	0.0045503
2.6	0.00002	17	63	0.0062319
2.5	0.00002	18	81	0.0080125
2.4	0.00002	18	99	0.009793
2.3	0.00003	26	125	0.012365
2.2	0.00003	28	153	0.015135
2.1	0.00004	42	195	0.019289
2.0	0.00006	62	257	0.025422
1.9	0.00009	93	350	0.034622
1.8	0.00018	179	529	0.052328
1.7	0.00019	192	721	0.071321
1.6	0.00012	118	839	0.082993
1.5	0.00024	240	1079	0.10673
1.4	0.00036	361	1440	0.14244
1.3	0.00034	341	1781	0.17618
1.2	0.00063	637	2418	0.23919
1.1	0.00088	890	3308	0.32723
1.0	0.00234	2361	5669	0.56077
0.9	0.00473	4781	10450	1.0337
0.8	0.00851	8607	19057	1.8851
0.7	0.01957	19787	38844	3.8424
0.6	0.06333	64022	102866	10.175
0.5	0.21960	222003	324869	32.136
0.4	0.40013	404505	729374	72.149
0.3	0.24895	251671	981045	97.044
0.2	0.02939	29709	1010754	99.983
0.1	0.00017	170	1010924	100

Station Information	
Station no.	211425
Station name	Lees Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	353684
Northing	6311538

Summary Statistics	
Time interval (mins)	15
Start of record	20/05/1993
Highest water level recorded (m)	2.774
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.092
Date recorded	18/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211425

NSW GOVERNMENT

Lees Bridge (211425)
FREQUENCY DISTRIBUTION ANALYSIS

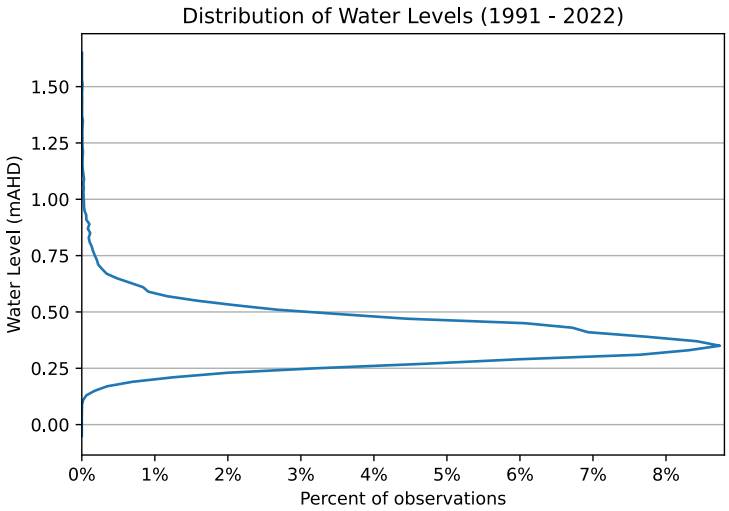
Manly Hydraulics Laboratory

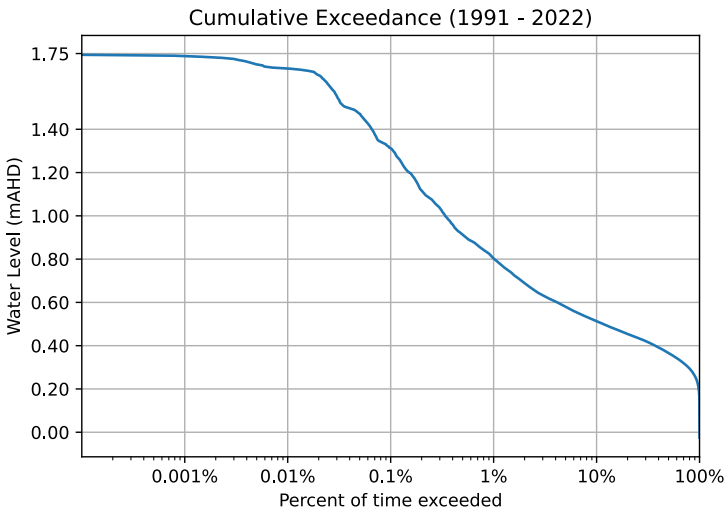
MHL2971
Figure
A162

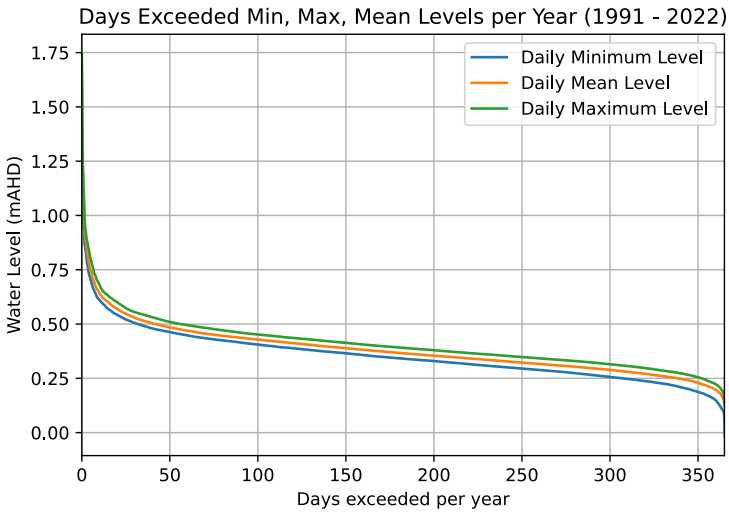
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00020	215	215	0.02039
1.6	0.00013	135	350	0.033193
1.5	0.00028	291	641	0.060791
1.4	0.00040	424	1065	0.101
1.3	0.00046	487	1552	0.14719
1.2	0.00062	658	2210	0.20959
1.1	0.00124	1307	3517	0.33355
1.0	0.00201	2121	5638	0.5347
0.9	0.00480	5058	10696	1.0144
0.8	0.00847	8936	19632	1.8619
0.7	0.02286	24104	43736	4.1478
0.6	0.07391	77936	121672	11.539
0.5	0.25599	269928	391600	37.139
0.4	0.40839	430615	822215	77.977
0.3	0.20164	212616	1034831	98.142
0.2	0.01843	19438	1054269	99.985
0.1	0.00010	103	1054372	99.995
0.0	0.00000	2	1054374	99.995

Station Information	
Station no.	211418
Station name	Long Jetty
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	358757
Northing	6308079

Summary Statistics	
Time interval (mins)	15
Start of record	12/09/1991
Highest water level recorded (m)	1.673
Date recorded	11/02/2020
Lowest water level recorded (m)	-0.075
Date recorded	20/10/1996







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211418

NSW GOVERNMENT

Long Jetty (211418)
FREQUENCY DISTRIBUTION ANALYSIS

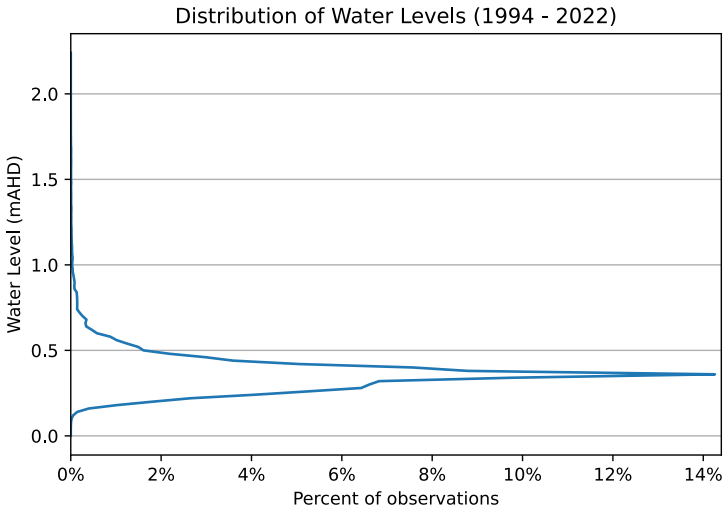
Manly Hydraulics Laboratory

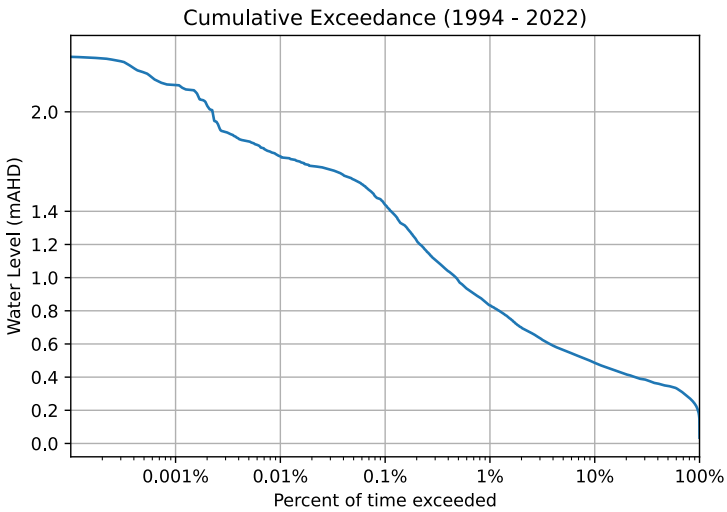
MHL2971
Figure
A163

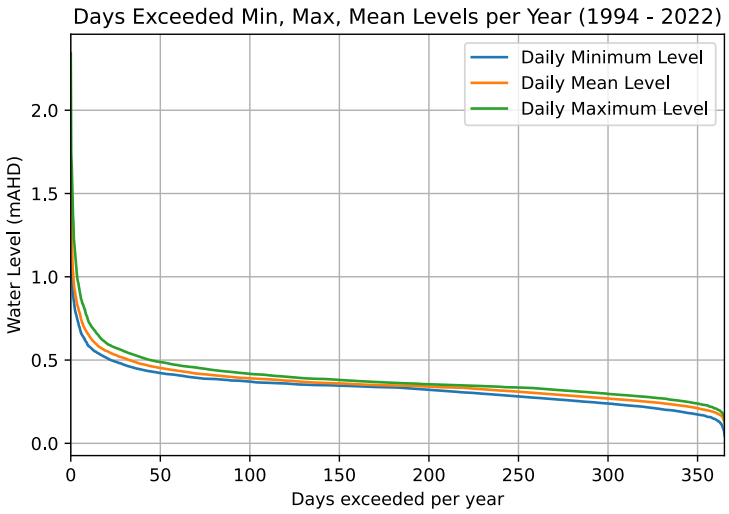
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00000	2	2	0.00021297
2.2	0.00001	10	12	0.0012778
2.1	0.00001	6	18	0.0019167
2.0	0.00000	3	21	0.0022362
1.9	0.00003	32	53	0.0056437
1.8	0.00009	88	141	0.015014
1.7	0.00032	301	442	0.047067
1.6	0.00031	291	733	0.078054
1.5	0.00036	335	1068	0.11373
1.4	0.00048	448	1516	0.16143
1.3	0.00054	509	2025	0.21563
1.2	0.00093	873	2898	0.30859
1.1	0.00164	1540	4438	0.47258
1.0	0.00241	2264	6702	0.71367
0.9	0.00511	4803	11505	1.2251
0.8	0.00764	7172	18677	1.9888
0.7	0.01745	16389	35066	3.734
0.6	0.05205	48876	83942	8.9386
0.5	0.15431	144915	228857	24.37
0.4	0.47213	443372	672229	71.583
0.3	0.24962	234419	906648	96.545
0.2	0.03432	32227	938875	99.977
0.1	0.00023	216	939091	100

Station Information	
Station no.	211419
Station name	Tumbi Umbi
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	355321
Northing	6307480

Summary Statistics	
Time interval (mins)	15
Start of record	05/04/1994
Highest water level recorded (m)	2.260
Date recorded	02/04/1999
Lowest water level recorded (m)	-0.020
Date recorded	14/10/2004







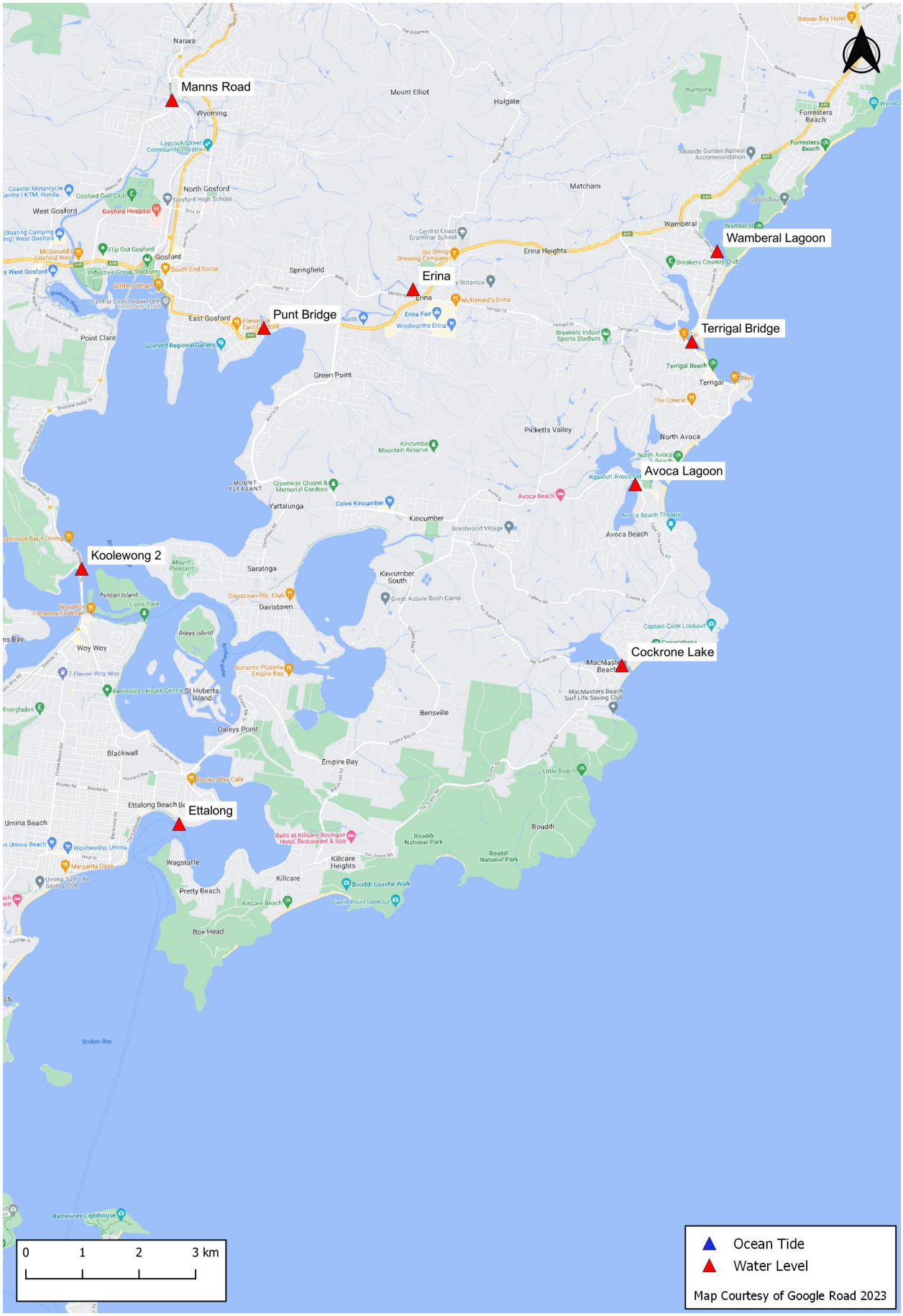
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211419

NSW GOVERNMENT

Tumbi Umbi (211419)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A164



NSW GOVERNMENT

STATION LOCATIONS
BRISBANE WATER REGION

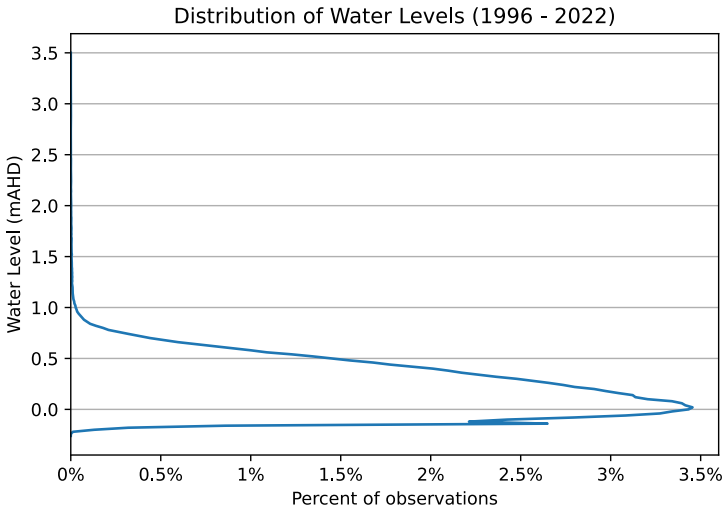
Manly Hydraulics Laboratory

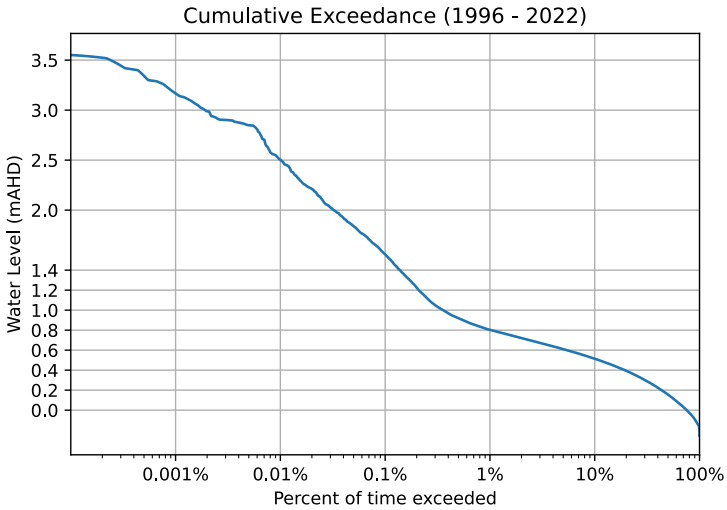
MHL2971
Figure
A165

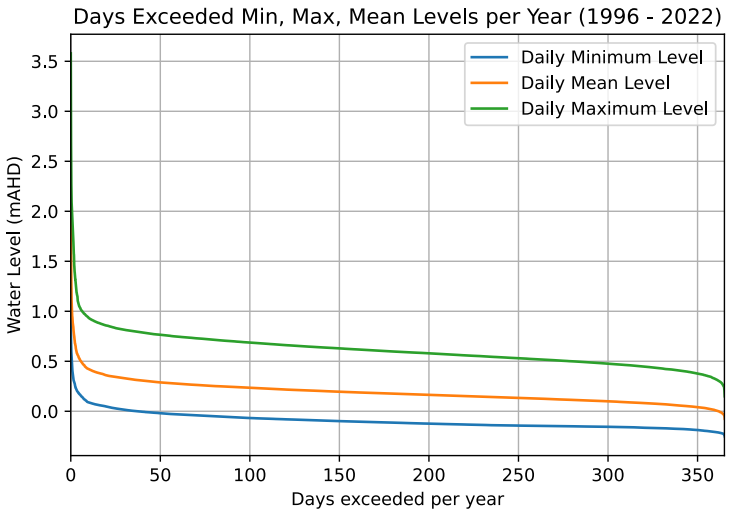
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.7	0.00000	3	3	0.00032878
3.5	0.00000	2	5	0.00054797
3.3	0.00001	8	13	0.0014247
3.1	0.00002	16	29	0.0031782
2.9	0.00004	36	65	0.0071237
2.7	0.00003	27	92	0.010083
2.5	0.00005	48	140	0.015343
2.3	0.00010	91	231	0.025316
2.1	0.00017	157	388	0.042523
1.9	0.00029	268	656	0.071894
1.7	0.00042	381	1037	0.11365
1.5	0.00058	527	1564	0.17141
1.3	0.00091	826	2390	0.26193
1.1	0.00283	2583	4973	0.54501
0.9	0.01835	16743	21716	2.38
0.7	0.08595	78427	100143	10.975
0.5	0.19264	175775	275918	30.239
0.3	0.28418	259300	535218	58.657
0.1	0.32734	298683	833901	91.391
-0.1	0.08609	78551	912452	100

Station Information	
Station no.	211435
Station name	Manns Road
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	345890
Northing	6302955

Summary Statistics	
Time interval (mins)	15
Start of record	07/03/1996
Highest water level recorded (m)	3.510
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.280
Date recorded	07/03/1996







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-211435

NSW GOVERNMENT

Manns Road (211435)
FREQUENCY DISTRIBUTION ANALYSIS

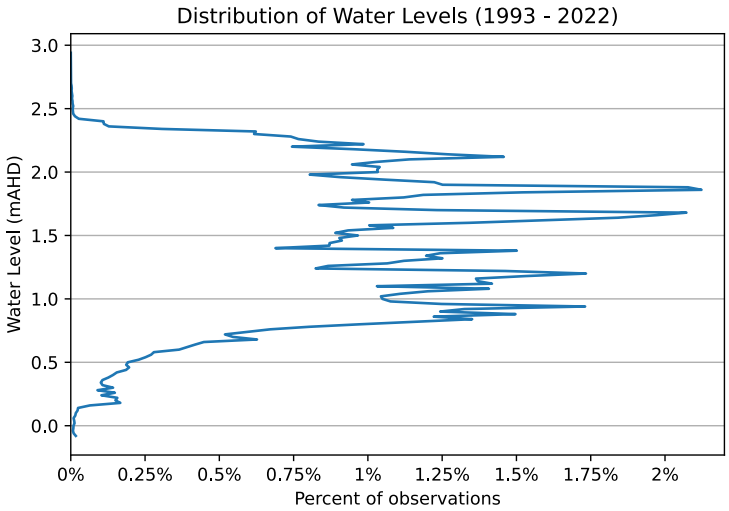
Manly Hydraulics Laboratory

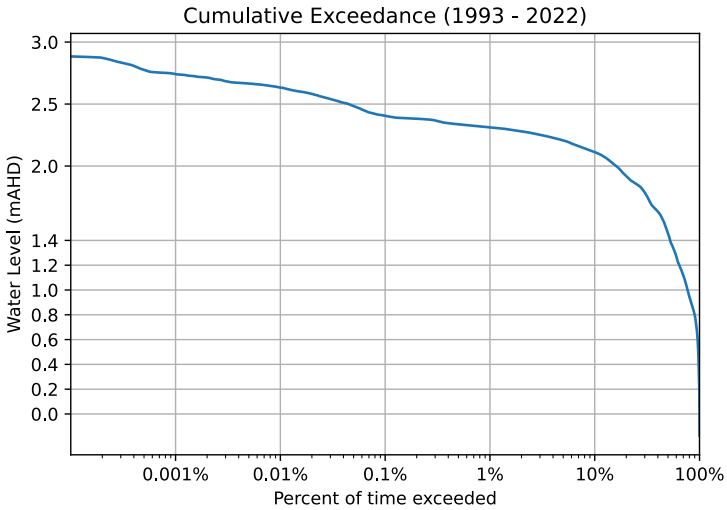
MHL2971
Figure
A166

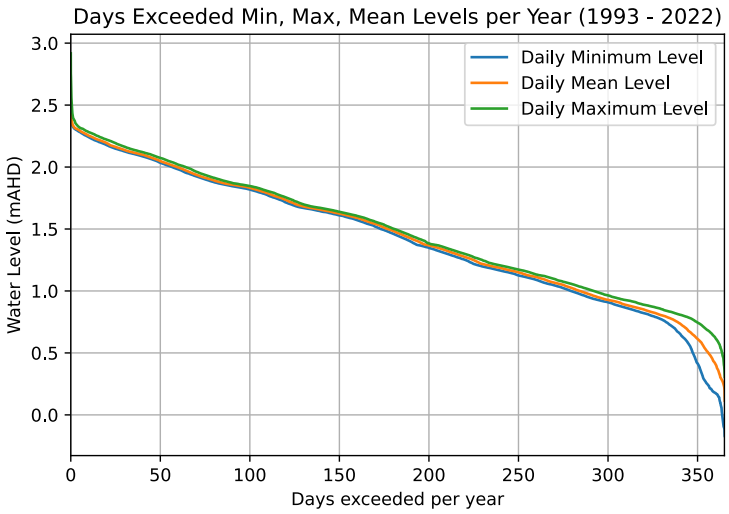
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.9	0.00000	4	4	0.0003831
2.8	0.00002	20	24	0.0022986
2.7	0.00013	136	160	0.015324
2.6	0.00029	307	467	0.044727
2.5	0.00063	657	1124	0.10765
2.4	0.01279	13351	14475	1.3864
2.3	0.03942	41162	55637	5.3287
2.2	0.05550	57944	113581	10.878
2.1	0.05186	54143	167724	16.064
2.0	0.05026	52475	220199	21.09
1.9	0.08158	85176	305375	29.248
1.8	0.04825	50376	355751	34.072
1.7	0.08714	90987	446738	42.787
1.6	0.05257	54890	501628	48.044
1.5	0.04524	47235	548863	52.568
1.4	0.05880	61398	610261	58.448
1.3	0.05339	55745	666006	63.787
1.2	0.07417	77439	743445	71.204
1.1	0.05791	60469	803914	76.996
1.0	0.06429	67124	871038	83.425
0.9	0.06481	67667	938705	89.905
0.8	0.03566	37230	975935	93.471
0.7	0.02431	25384	1001319	95.902
0.6	0.01394	14559	1015878	97.297
0.5	0.00916	9561	1025439	98.213
0.4	0.00583	6089	1031528	98.796
0.3	0.00641	6688	1038216	99.436
0.2	0.00429	4474	1042690	99.865
0.1	0.00066	685	1043375	99.93
0.0	0.00052	540	1043915	99.982
-0.1	0.00018	186	1044101	100

Station Information	
Station no.	212450
Station name	Wamberal Lagoon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	355526
Northing	6300283

Summary Statistics	
Time interval (mins)	15
Start of record	15/07/1993
Highest water level recorded (m)	2.965
Date recorded	09/06/2007
Lowest water level recorded (m)	-0.105
Date recorded	03/09/2016







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212450

NSW GOVERNMENT

Wamberal Lagoon (212450)
FREQUENCY DISTRIBUTION ANALYSIS

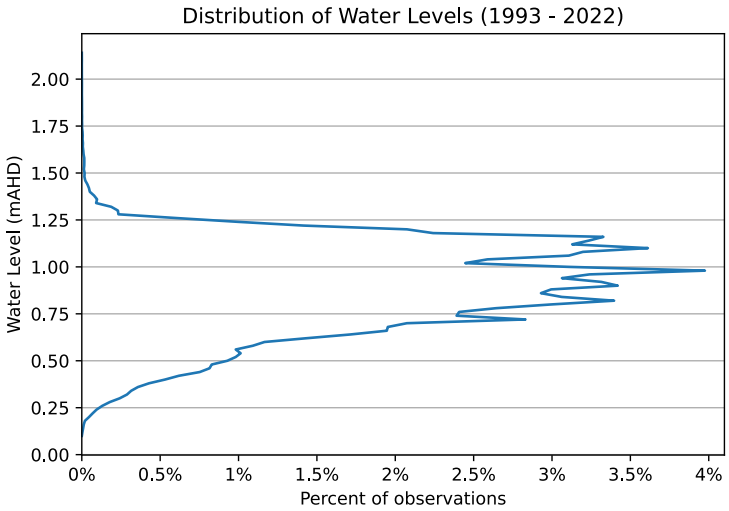
Manly Hydraulics Laboratory

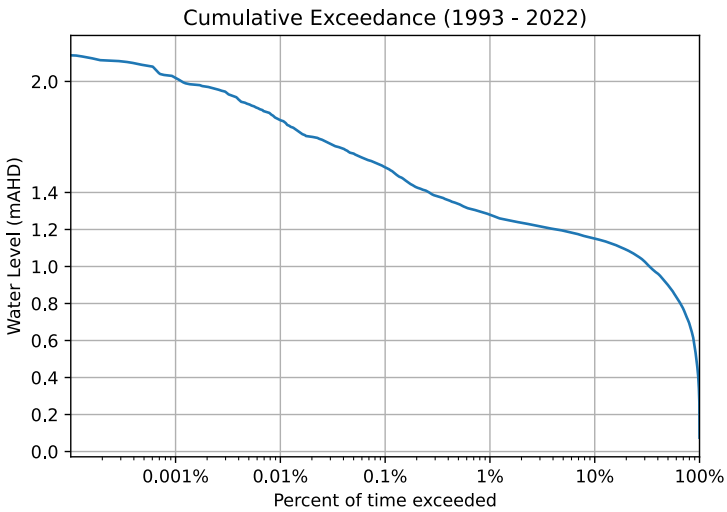
MHL2971
Figure
A167

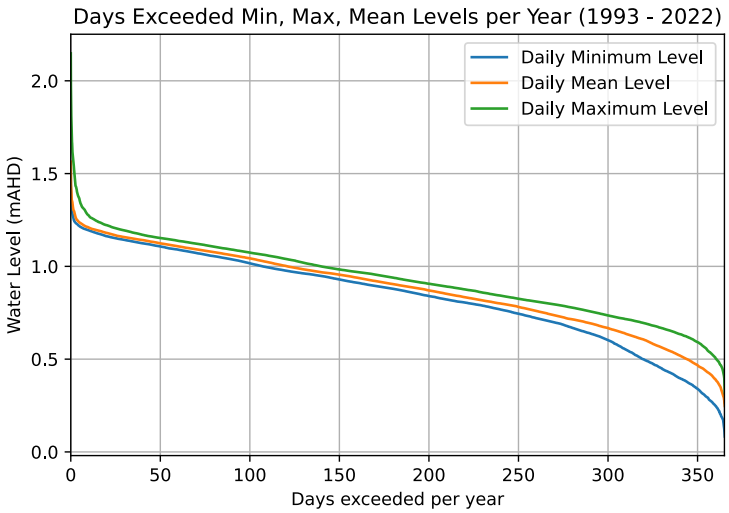
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00001	8	8	0.00080468
2.0	0.00003	28	36	0.003621
1.9	0.00005	52	88	0.0088514
1.8	0.00011	111	199	0.020016
1.7	0.00033	333	532	0.053511
1.6	0.00072	714	1246	0.12533
1.5	0.00138	1368	2614	0.26293
1.4	0.00506	5030	7644	0.76887
1.3	0.03479	34590	42234	4.2481
1.2	0.14007	139260	181494	18.256
1.1	0.14951	148643	330137	33.207
1.0	0.16701	166040	496177	49.908
0.9	0.15802	157097	653274	65.709
0.8	0.13268	131908	785182	78.977
0.7	0.09118	90648	875830	88.095
0.6	0.05234	52039	927869	93.329
0.5	0.03944	39214	967083	97.274
0.4	0.01921	19098	986181	99.195
0.3	0.00715	7105	993286	99.909
0.2	0.00090	897	994183	99.999
0.1	0.00000	1	994184	100

Station Information	
Station no.	212455
Station name	Terrigal Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	355079
Northing	6298683

Summary Statistics	
Time interval (mins)	15
Start of record	25/06/1993
Highest water level recorded (m)	2.147
Date recorded	05/06/2016
Lowest water level recorded (m)	0.082
Date recorded	12/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212455

NSW GOVERNMENT

Terrigal Bridge (212455)
FREQUENCY DISTRIBUTION ANALYSIS

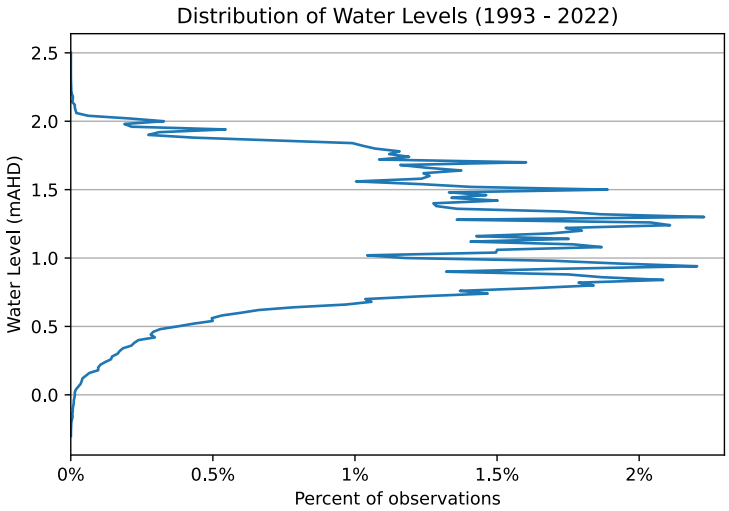
Manly Hydraulics Laboratory

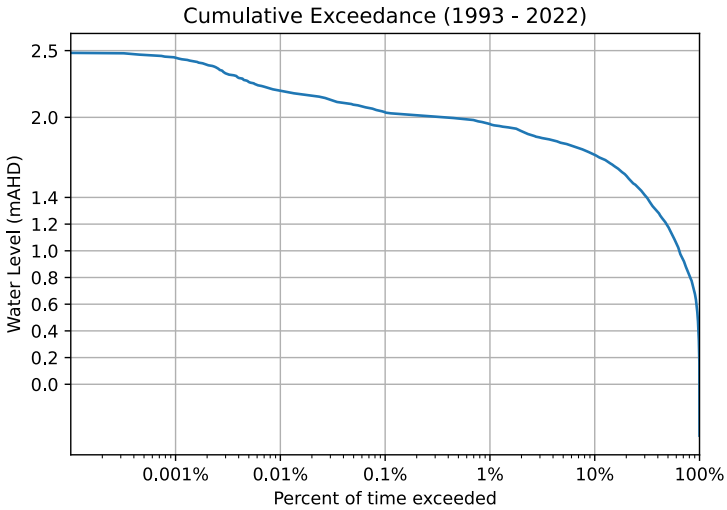
MHL2971
Figure
A168

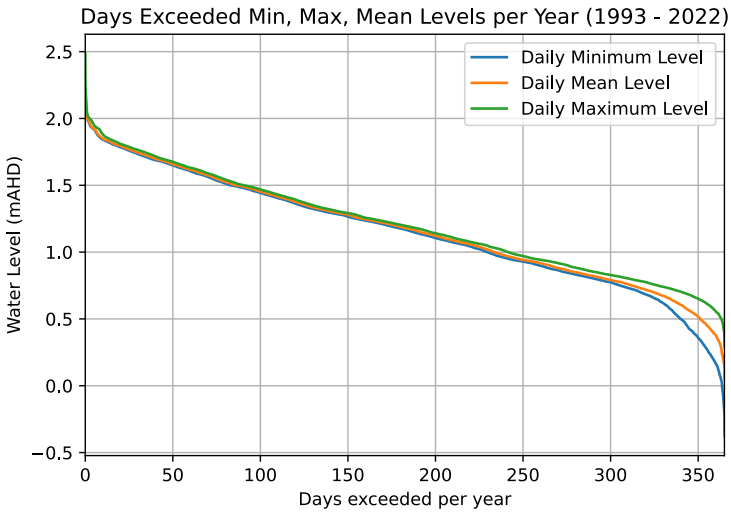
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00002	19	19	0.0018746
2.4	0.00002	21	40	0.0039466
2.3	0.00006	58	98	0.0096691
2.2	0.00038	384	482	0.047556
2.1	0.00320	3239	3721	0.36713
2.0	0.01586	16070	19791	1.9527
1.9	0.03444	34910	54701	5.3971
1.8	0.05623	56995	111696	11.02
1.7	0.06629	67188	178884	17.65
1.6	0.06142	62253	241137	23.792
1.5	0.07523	76246	317383	31.314
1.4	0.07512	76139	393522	38.827
1.3	0.09477	96057	489579	48.304
1.2	0.08072	81817	571396	56.377
1.1	0.07676	77797	649193	64.052
1.0	0.08693	88109	737302	72.746
0.9	0.08811	89306	826608	81.557
0.8	0.07535	76369	902977	89.092
0.7	0.04508	45691	948668	93.6
0.6	0.02557	25919	974587	96.157
0.5	0.01556	15771	990358	97.713
0.4	0.01030	10440	1000798	98.743
0.3	0.00677	6859	1007657	99.42
0.2	0.00352	3572	1011229	99.773
0.1	0.00133	1343	1012572	99.905
0.0	0.00057	576	1013148	99.962
-0.1	0.00030	306	1013454	99.992
-0.2	0.00006	63	1013517	99.998
-0.3	0.00002	17	1013534	100

Station Information	
Station no.	212452
Station name	Avoca Lagoon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	354079
Northing	6296162

Summary Statistics	
Time interval (mins)	15
Start of record	24/06/1993
Highest water level recorded (m)	2.519
Date recorded	06/08/1998
Lowest water level recorded (m)	-0.320
Date recorded	10/06/2008







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212452

NSW GOVERNMENT

Avoca Lagoon (212452)
FREQUENCY DISTRIBUTION ANALYSIS

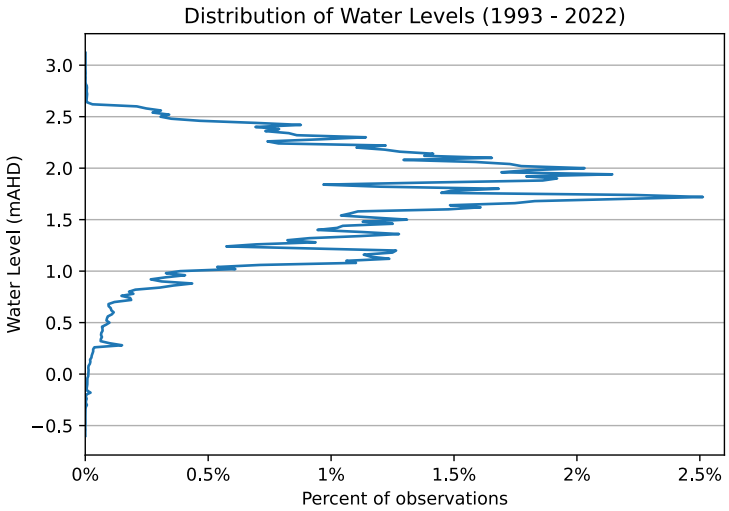
Manly Hydraulics Laboratory

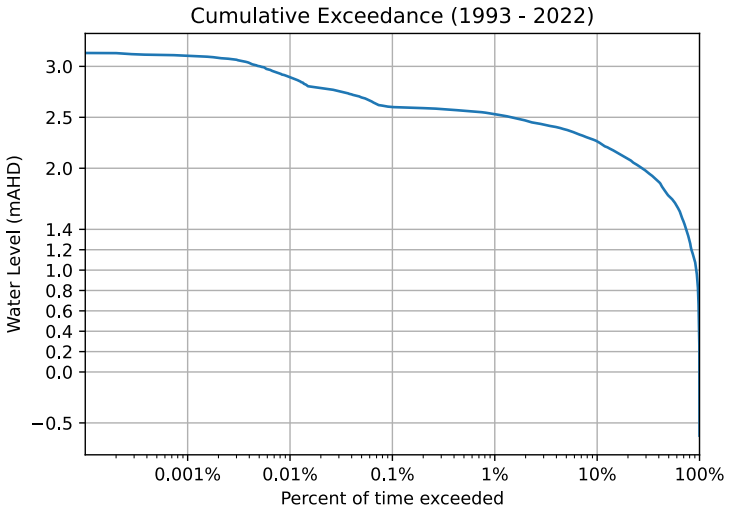
MHL2971
Figure
A169

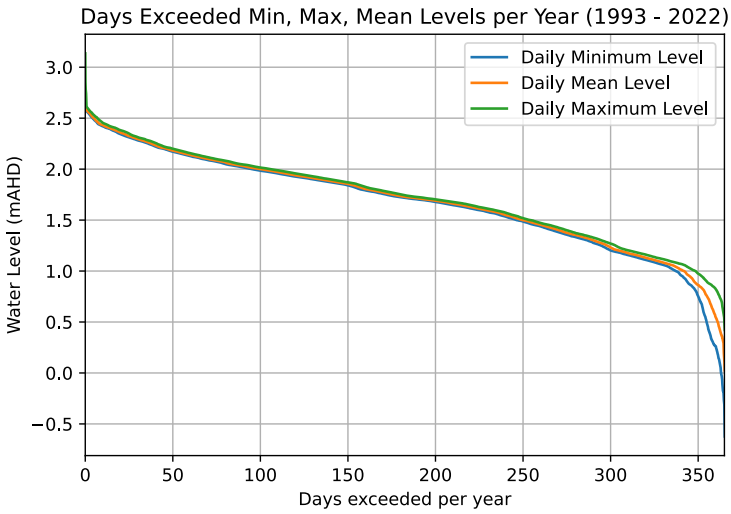
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00005	53	53	0.0052053
3.0	0.00011	112	165	0.016205
2.8	0.00087	882	1047	0.10283
2.6	0.04068	41420	42467	4.1708
2.4	0.08747	89057	131524	12.917
2.2	0.14432	146950	278474	27.35
2.0	0.16805	171105	449579	44.155
1.8	0.18202	185332	634911	62.357
1.6	0.11633	118449	753360	73.99
1.4	0.09335	95048	848408	83.325
1.2	0.10066	102487	950895	93.39
1.0	0.03324	33846	984741	96.715
0.8	0.01408	14336	999077	98.123
0.6	0.00882	8977	1008054	99.004
0.4	0.00672	6847	1014901	99.677
0.2	0.00191	1949	1016850	99.868
0.0	0.00099	1007	1017857	99.967
-0.2	0.00028	288	1018145	99.995
-0.4	0.00004	43	1018188	100
-0.6	0.00000	5	1018193	100

Station Information	
Station no.	212453
Station name	Cockrone Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	353841
Northing	6292959

Summary Statistics	
Time interval (mins)	15
Start of record	25/06/1993
Highest water level recorded (m)	3.140
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.618
Date recorded	25/12/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212453

NSW GOVERNMENT

Cockrone Lake (212453)
FREQUENCY DISTRIBUTION ANALYSIS

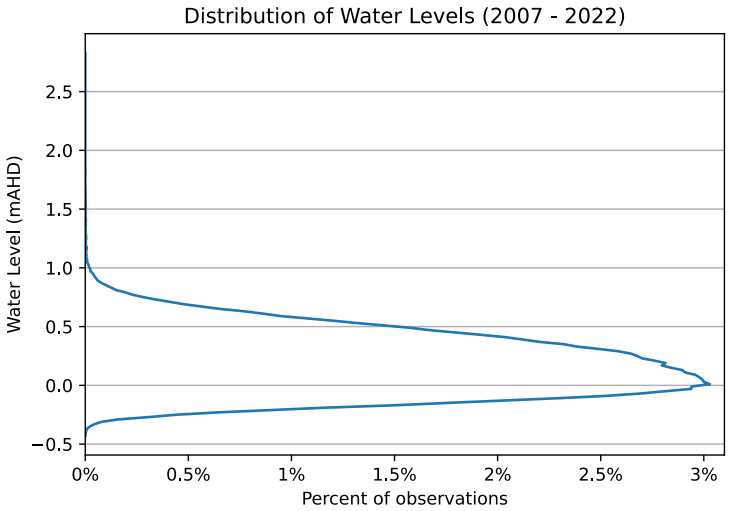
Manly Hydraulics Laboratory

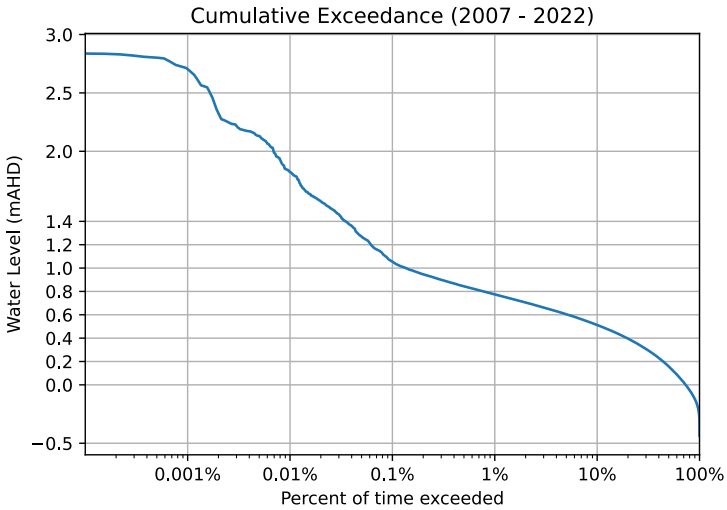
MHL2971
Figure
A170

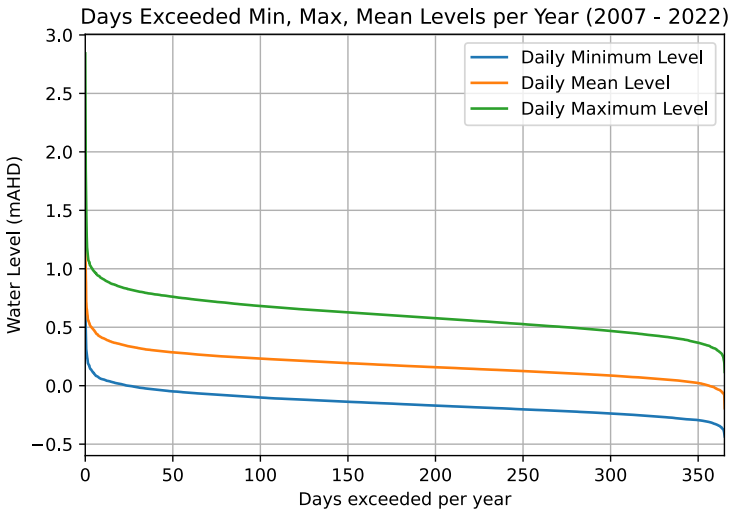
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.8	0.00001	3	3	0.00058115
2.7	0.00000	1	4	0.00077487
2.6	0.00000	2	6	0.0011623
2.5	0.00000	1	7	0.001356
2.4	0.00000	1	8	0.0015497
2.3	0.00001	6	14	0.0027121
2.2	0.00002	12	26	0.0050367
2.1	0.00001	7	33	0.0063927
2.0	0.00001	7	40	0.0077487
1.9	0.00003	13	53	0.010267
1.8	0.00002	12	65	0.012592
1.7	0.00005	25	90	0.017435
1.6	0.00008	43	133	0.025765
1.5	0.00009	44	177	0.034288
1.4	0.00011	55	232	0.044943
1.3	0.00016	85	317	0.061409
1.2	0.00024	124	441	0.08543
1.1	0.00050	258	699	0.13541
1.0	0.00163	839	1538	0.29794
0.9	0.00468	2417	3955	0.76616
0.8	0.01339	6912	10867	2.1051
0.7	0.03116	16084	26951	5.2209
0.6	0.05678	29310	56261	10.899
0.5	0.08705	44937	101198	19.604
0.4	0.11317	58421	159619	30.921
0.3	0.13228	68284	227903	44.149
0.2	0.14173	73164	301067	58.322
0.1	0.14908	76955	378022	73.23
0.0	0.14179	73192	451214	87.408
-0.1	0.09418	48617	499831	96.826
-0.2	0.02945	15200	515031	99.771
-0.3	0.00225	1162	516193	99.996
-0.4	0.00003	18	516211	99.999

Station Information	
Station no.	212436
Station name	Erina
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	350150
Northing	6299610

Summary Statistics	
Time interval (mins)	15
Start of record	04/06/2007
Highest water level recorded (m)	2.841
Date recorded	24/02/2022
Lowest water level recorded (m)	-0.447
Date recorded	16/10/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212436

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Erina (212436)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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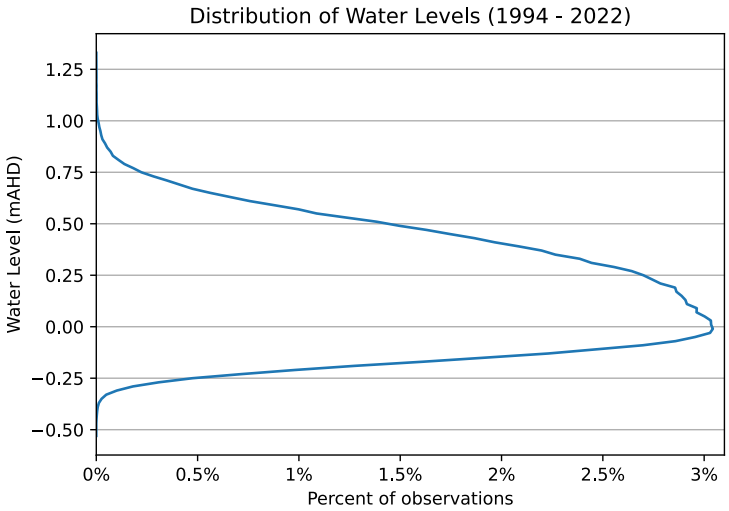
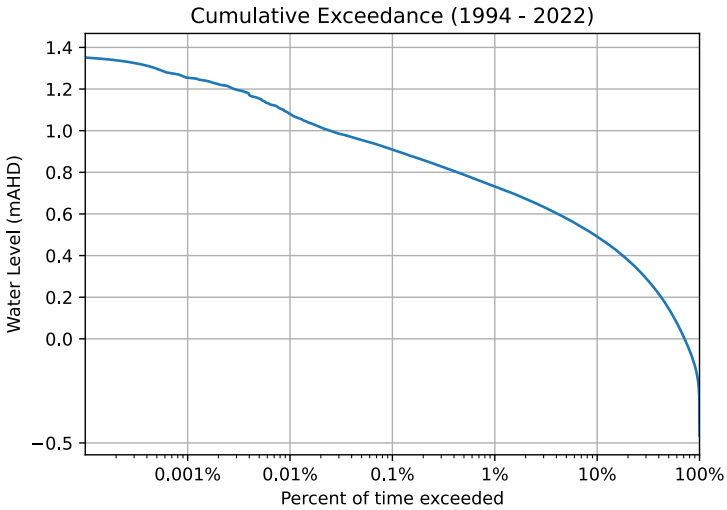
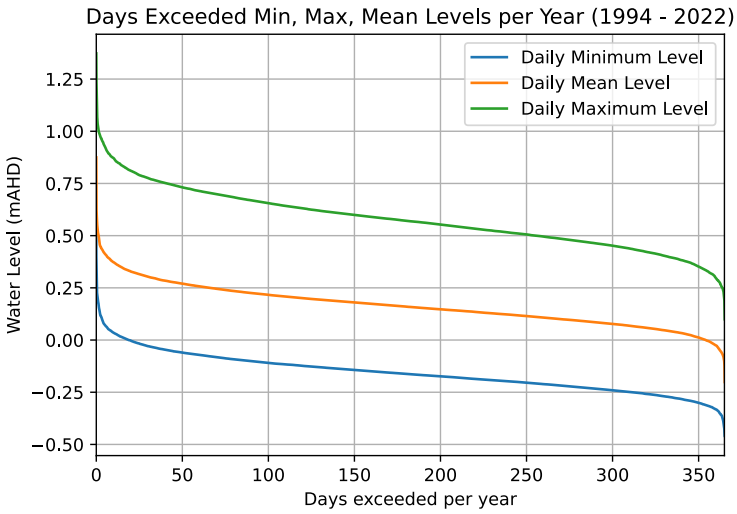
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00001	5	5	0.00050503
1.3	0.00002	24	29	0.0029292
1.2	0.00006	58	87	0.0087876
1.1	0.00016	156	243	0.024545
1.0	0.00089	880	1123	0.11343
0.9	0.00319	3160	4283	0.43261
0.8	0.01045	10347	14630	1.4777
0.7	0.02664	26371	41001	4.1414
0.6	0.05258	52051	93052	9.3989
0.5	0.08416	83319	176371	17.815
0.4	0.11143	110324	286695	28.958
0.3	0.13263	131308	418003	42.221
0.2	0.14373	142301	560304	56.595
0.1	0.14940	147912	708216	71.535
0.0	0.14759	146114	854330	86.293
-0.1	0.10240	101376	955706	96.533
-0.2	0.03184	31527	987233	99.717
-0.3	0.00272	2697	989930	99.99
-0.4	0.00010	101	990031	100

Station Information	
Station no.	212433
Station name	Punt Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	347514
Northing	6298928

Summary Statistics	
Time interval (mins)	15
Start of record	18/03/1994
Highest water level recorded (m)	1.347
Date recorded	22/04/2015
Lowest water level recorded (m)	-0.550
Date recorded	12/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212433

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Punt Bridge (212433)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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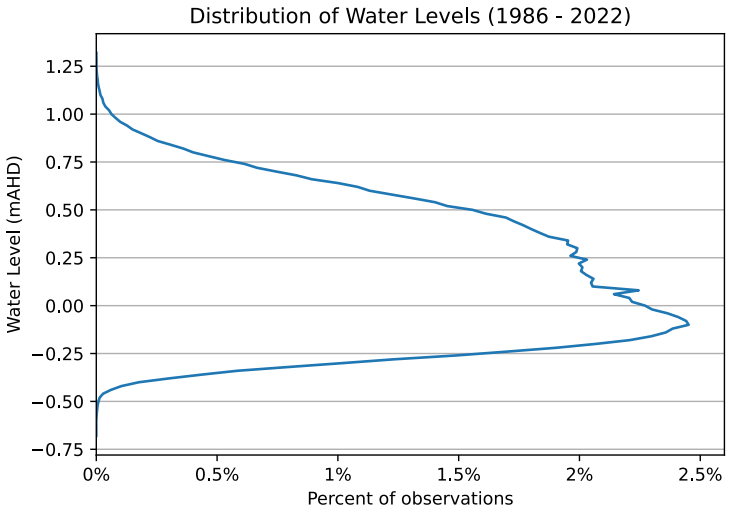
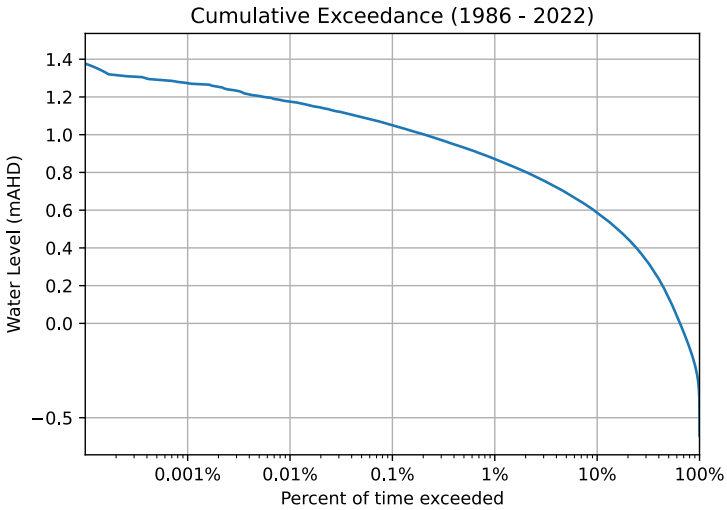
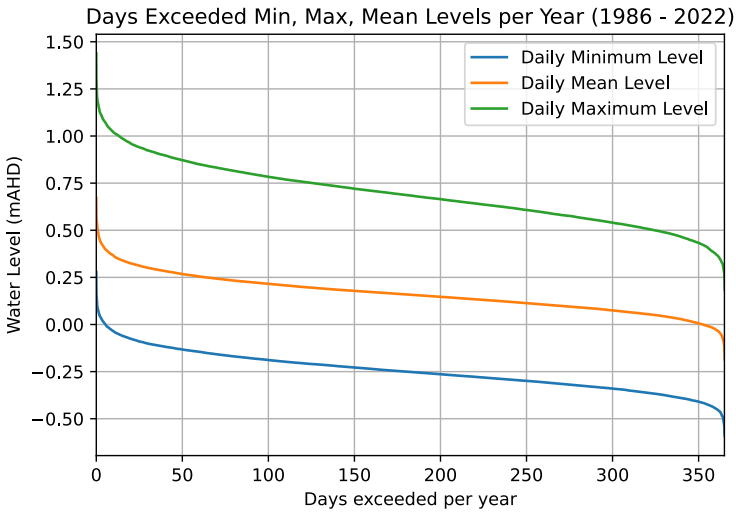
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00000	4	4	0.00034325
1.3	0.00005	60	64	0.0054919
1.2	0.00040	464	528	0.045309
1.1	0.00162	1887	2415	0.20723
1.0	0.00519	6044	8459	0.72588
0.9	0.01330	15495	23954	2.0555
0.8	0.02680	31226	55180	4.7351
0.7	0.04549	53006	108186	9.2836
0.6	0.06523	76010	184196	15.806
0.5	0.08362	97449	281645	24.168
0.4	0.09411	109670	391315	33.579
0.3	0.09969	116169	507484	43.548
0.2	0.10153	118322	625806	53.701
0.1	0.10866	126627	752433	64.567
0.0	0.11788	137368	889801	76.355
-0.1	0.11700	136349	1026150	88.056
-0.2	0.08397	97850	1124000	96.452
-0.3	0.03144	36633	1160633	99.596
-0.4	0.00383	4463	1165096	99.979
-0.5	0.00021	247	1165343	100

Station Information	
Station no.	212423
Station name	Ettalong
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	346015
Northing	6290156

Summary Statistics	
Time interval (mins)	15
Start of record	22/04/1986
Highest water level recorded (m)	1.340
Date recorded	10/05/1997
Lowest water level recorded (m)	-0.699
Date recorded	12/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212423

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Ettalong (212423)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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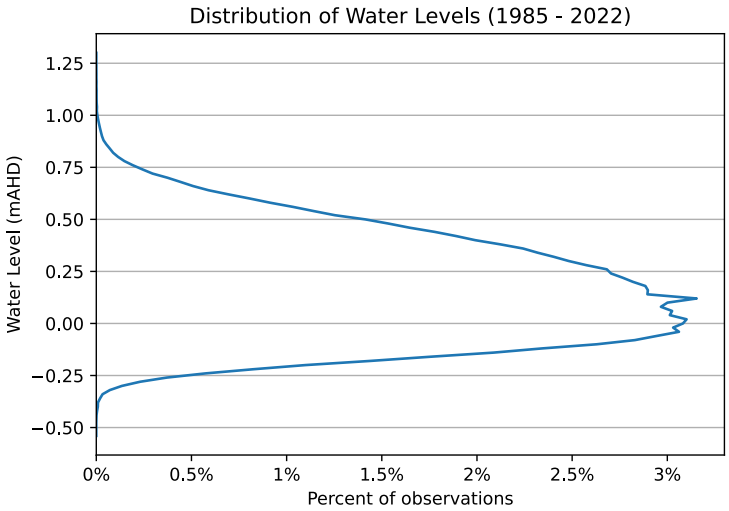
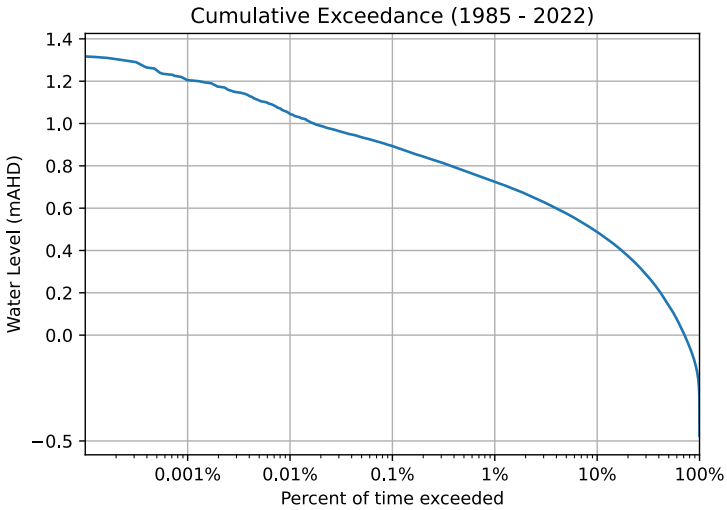
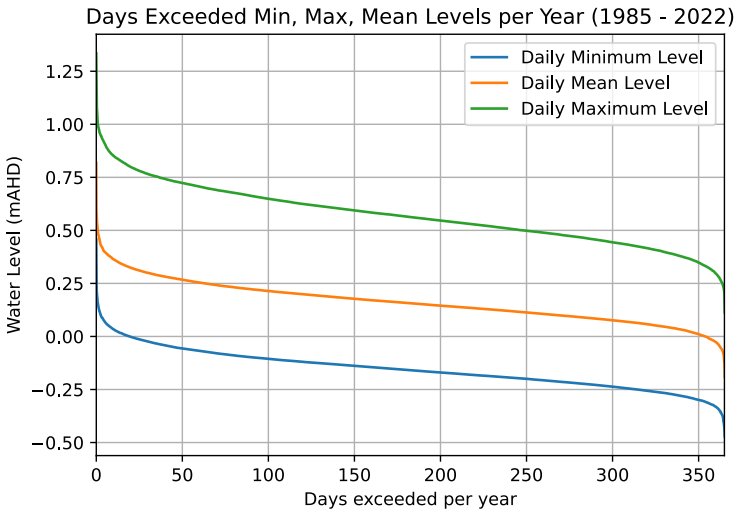
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.3	0.00001	14	14	0.0010943
1.2	0.00005	59	73	0.0057059
1.1	0.00011	143	216	0.016883
1.0	0.00072	926	1142	0.089262
0.9	0.00281	3590	4732	0.36987
0.8	0.00992	12697	17429	1.3623
0.7	0.02609	33377	50806	3.9712
0.6	0.05149	65872	116678	9.1199
0.5	0.08260	105672	222350	17.38
0.4	0.11078	141735	364085	28.458
0.3	0.13208	168981	533066	41.666
0.2	0.14651	187443	720509	56.317
0.1	0.15107	193269	913778	71.424
0.0	0.14948	191239	1105017	86.372
-0.1	0.10251	131151	1236168	96.623
-0.2	0.03096	39606	1275774	99.719
-0.3	0.00267	3419	1279193	99.986
-0.4	0.00014	178	1279371	100

Station Information	
Station no.	2124301
Station name	Koolewong 2
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	344294
Northing	6294668

Summary Statistics	
Time interval (mins)	15
Start of record	20/08/1985
Highest water level recorded (m)	1.311
Date recorded	22/04/2015
Lowest water level recorded (m)	-0.560
Date recorded	29/10/1985







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-2124301

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Koolewong 2 (2124301)
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Figure
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STATION LOCATIONS
HAWKESBURY RIVER REGION

Manly Hydraulics Laboratory

MHL2971

Figure

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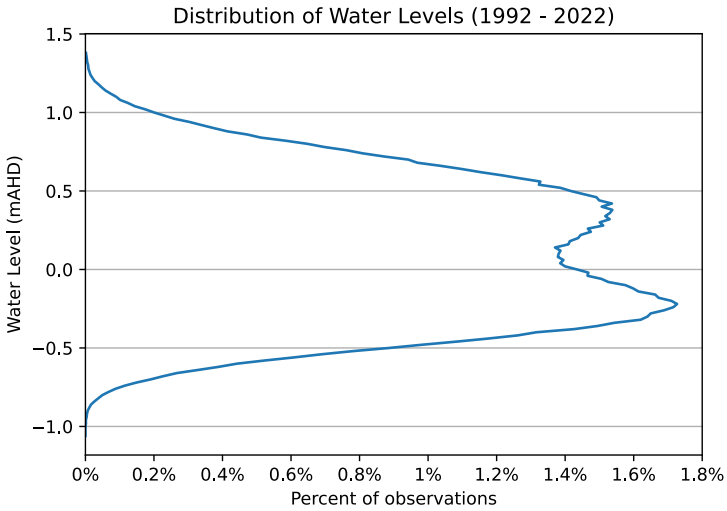
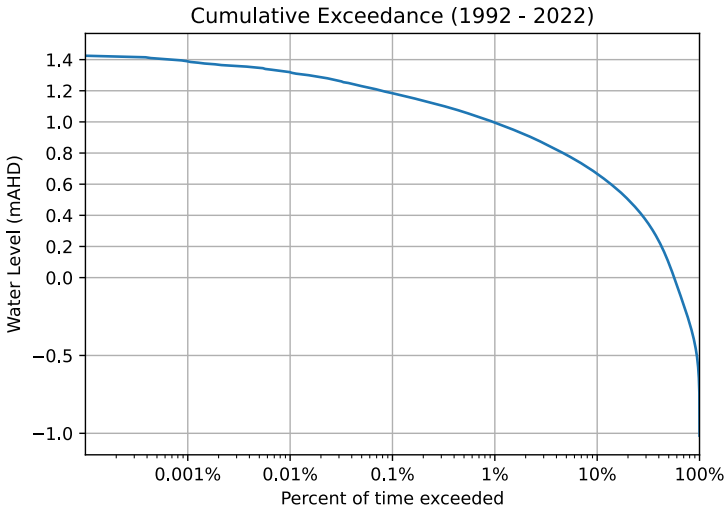
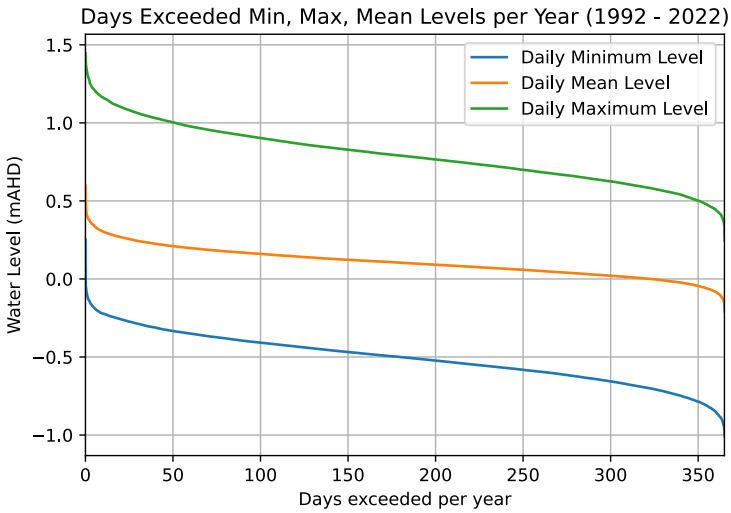
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00014	150	150	0.014447
1.3	0.00064	661	811	0.078109
1.2	0.00245	2540	3351	0.32274
1.1	0.00635	6589	9940	0.95735
1.0	0.01332	13833	23773	2.2896
0.9	0.02358	24485	48258	4.6478
0.8	0.03786	39314	87572	8.4343
0.7	0.05199	53979	141551	13.633
0.6	0.06522	67719	209270	20.155
0.5	0.07397	76803	286073	27.552
0.4	0.07622	79138	365211	35.174
0.3	0.07399	76818	442029	42.573
0.2	0.07018	72865	514894	49.591
0.1	0.06940	72054	586948	56.53
0.0	0.07400	76832	663780	63.93
-0.1	0.08123	84336	748116	72.053
-0.2	0.08491	88164	836280	80.544
-0.3	0.07725	80205	916485	88.269
-0.4	0.05814	60368	976853	94.083
-0.5	0.03490	36240	1013093	97.573
-0.6	0.01655	17181	1030274	99.228
-0.7	0.00611	6347	1036621	99.839
-0.8	0.00142	1475	1038096	99.982
-0.9	0.00018	182	1038278	99.999
-1.0	0.00000	2	1038280	99.999

Station Information	
Station no.	212440
Station name	Patonga
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	339822
Northing	6286295

Summary Statistics	
Time interval (mins)	15
Start of record	03/06/1992
Highest water level recorded (m)	1.403
Date recorded	05/06/2016
Lowest water level recorded (m)	-1.080
Date recorded	04/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212440

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Patonga (212440)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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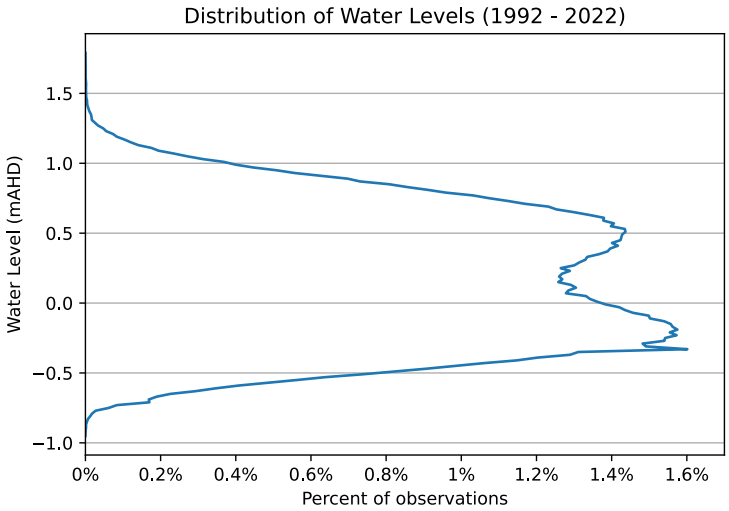
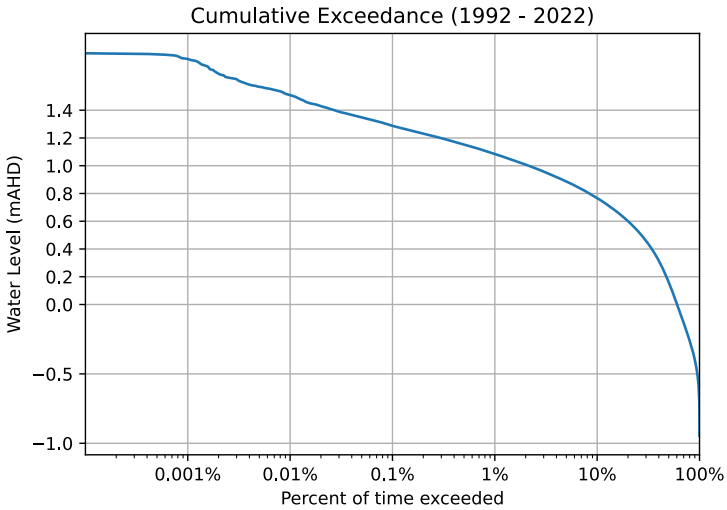
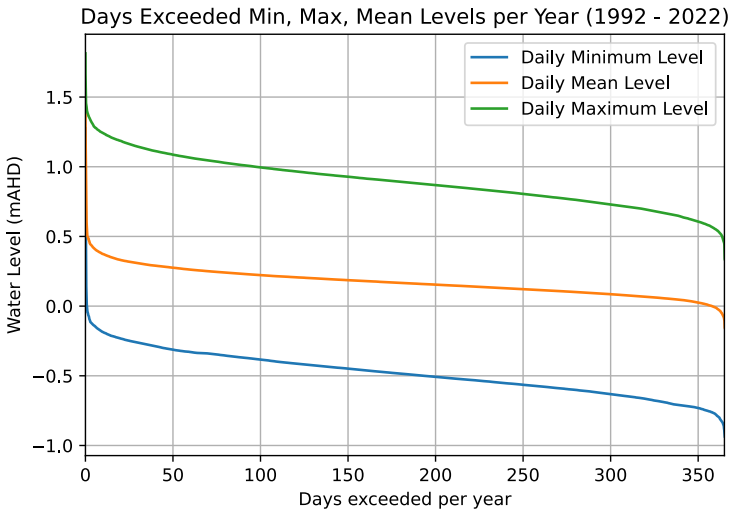
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00001	10	10	0.00097483
1.7	0.00002	19	29	0.002827
1.6	0.00008	77	106	0.010333
1.5	0.00016	165	271	0.026418
1.4	0.00061	628	899	0.087637
1.3	0.00206	2116	3015	0.29391
1.2	0.00568	5824	8839	0.86165
1.1	0.01284	13168	22007	2.1453
1.0	0.02407	24696	46703	4.5527
0.9	0.03873	39735	86438	8.4262
0.8	0.05221	53561	139999	13.647
0.7	0.06394	65596	205595	20.042
0.6	0.07033	72142	277737	27.075
0.5	0.07100	72832	350569	34.174
0.4	0.06861	70386	420955	41.036
0.3	0.06468	66350	487305	47.504
0.2	0.06371	65351	552656	53.874
0.1	0.06557	67266	619922	60.432
0.0	0.07129	73134	693056	67.561
-0.1	0.07692	78903	771959	75.253
-0.2	0.07757	79568	851527	83.009
-0.3	0.07021	72020	923547	90.03
-0.4	0.05113	52452	975999	95.143
-0.5	0.03050	31286	1007285	98.193
-0.6	0.01332	13660	1020945	99.524
-0.7	0.00440	4511	1025456	99.964
-0.8	0.00033	343	1025799	99.998
-0.9	0.00002	17	1025816	99.999

Station Information	
Station no.	212431
Station name	Spencer
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	327772
Northing	6296497

Summary Statistics	
Time interval (mins)	15
Start of record	23/04/1992
Highest water level recorded (m)	1.812
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.970
Date recorded	01/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212431

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Spencer (212431)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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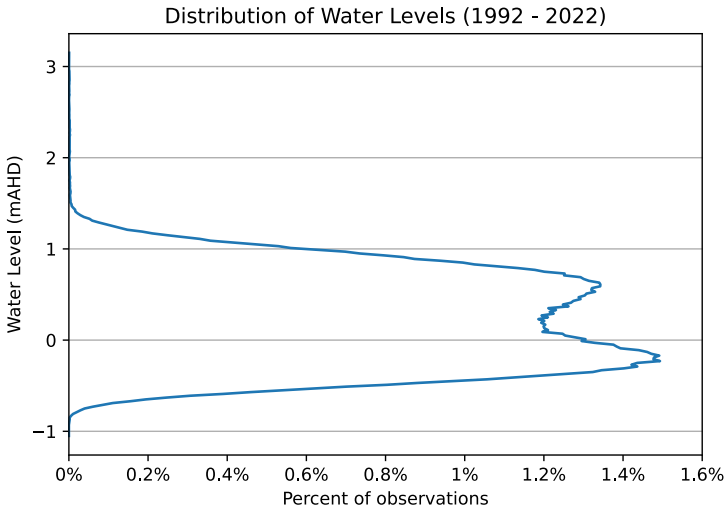
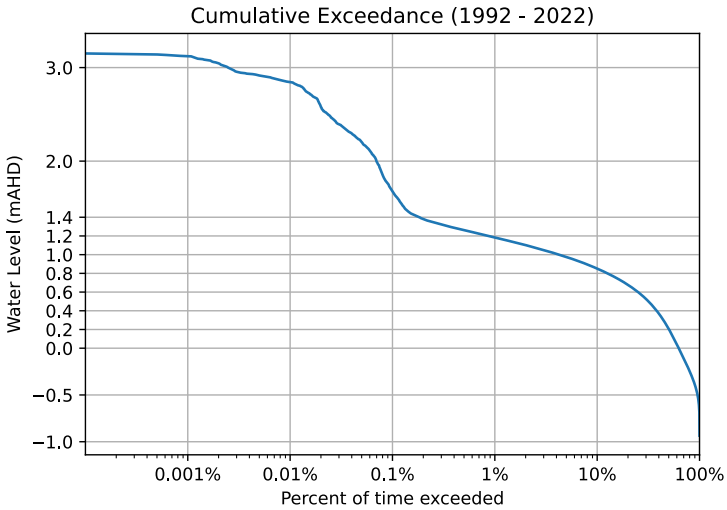
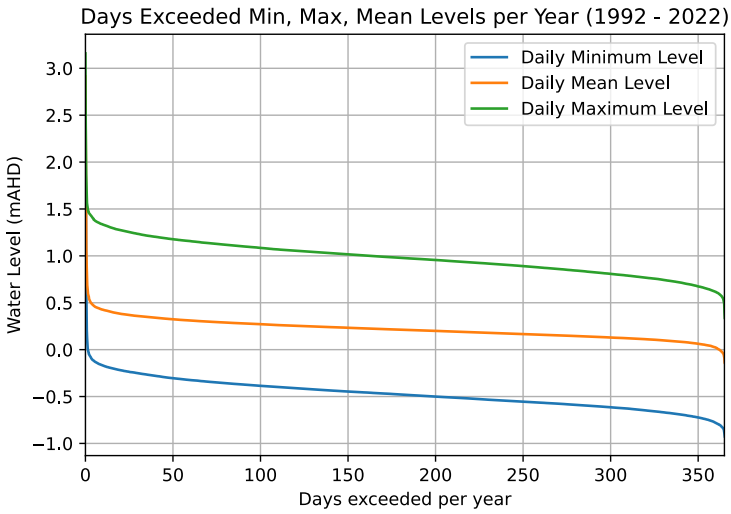
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.3	0.00001	13	13	0.0012602
3.1	0.00005	49	62	0.0060104
2.9	0.00010	108	170	0.01648
2.7	0.00007	72	242	0.02346
2.5	0.00016	167	409	0.039649
2.3	0.00022	223	632	0.061267
2.1	0.00015	159	791	0.076681
1.9	0.00020	209	1000	0.096941
1.7	0.00034	355	1355	0.13136
1.5	0.00228	2351	3706	0.35926
1.3	0.01675	17281	20987	2.0345
1.1	0.05771	59533	80520	7.8057
0.9	0.10731	110693	191213	18.536
0.7	0.13186	136020	327233	31.722
0.5	0.12632	130303	457536	44.354
0.3	0.12039	124191	581727	56.393
0.1	0.12952	133605	715332	69.345
-0.1	0.14591	150516	865848	83.937
-0.3	0.11675	120437	986285	95.612
-0.5	0.04078	42062	1028347	99.689
-0.7	0.00309	3192	1031539	99.999
-0.9	0.00001	12	1031551	100

Station Information	
Station no.	212429
Station name	Gunderman Caravan Park
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	319440
Northing	6298151

Summary Statistics	
Time interval (mins)	15
Start of record	09/04/1992
Highest water level recorded (m)	3.157
Date recorded	09/03/2022
Lowest water level recorded (m)	-1.070
Date recorded	03/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212429

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Gunderman Caravan Park (212429)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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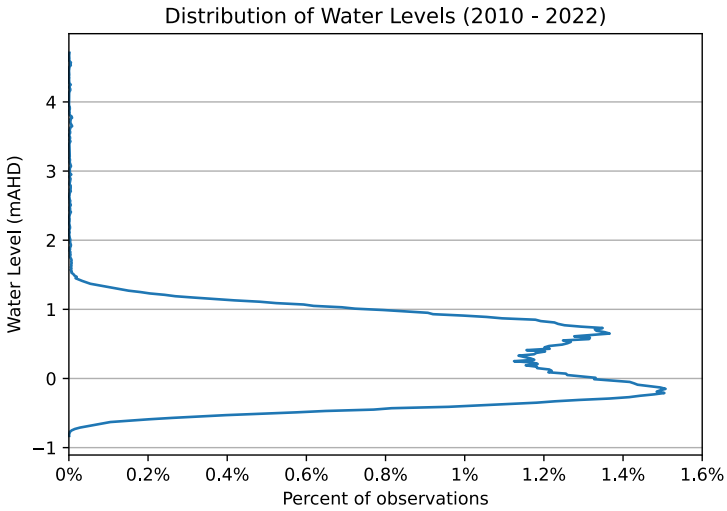
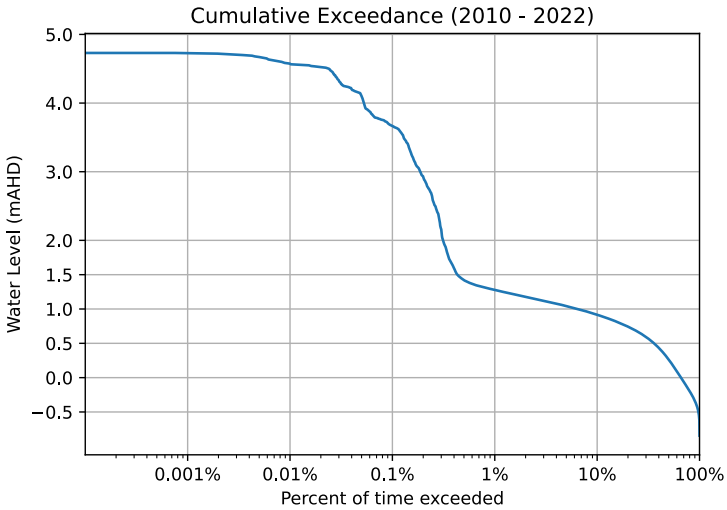
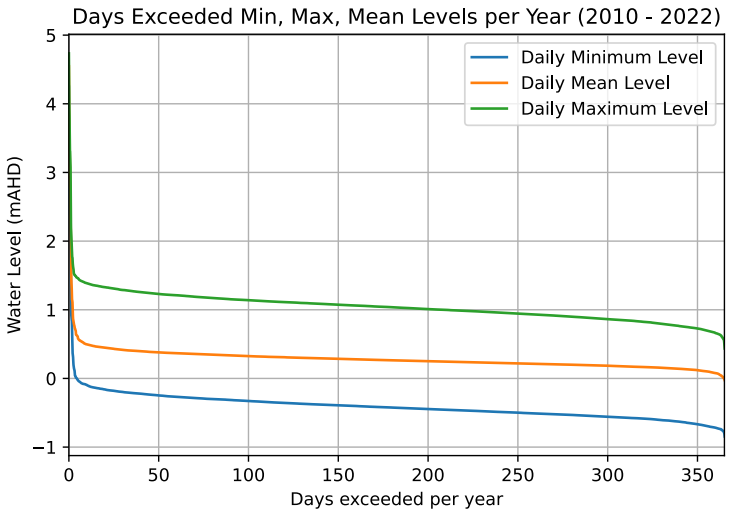
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.8	0.00008	35	35	0.0082933
4.6	0.00020	83	118	0.02796
4.4	0.00012	51	169	0.040045
4.2	0.00013	54	223	0.05284
4.0	0.00013	56	279	0.06611
3.8	0.00052	218	497	0.11777
3.6	0.00024	103	600	0.14217
3.4	0.00017	72	672	0.15923
3.2	0.00028	120	792	0.18767
3.0	0.00030	125	917	0.21729
2.8	0.00030	126	1043	0.24714
2.6	0.00029	121	1164	0.27581
2.4	0.00019	80	1244	0.29477
2.2	0.00018	75	1319	0.31254
2.0	0.00034	144	1463	0.34666
1.8	0.00051	217	1680	0.39808
1.6	0.00132	556	2236	0.52983
1.4	0.01178	4972	7208	1.708
1.2	0.04740	20005	27213	6.4482
1.0	0.09983	42129	69342	16.431
0.8	0.13085	55220	124562	29.515
0.6	0.12509	52791	177353	42.024
0.4	0.11636	49107	226460	53.66
0.2	0.12249	51693	278153	65.909
0.0	0.14361	60605	338758	80.27
-0.2	0.13268	55994	394752	93.538
-0.4	0.05847	24676	419428	99.385
-0.6	0.00613	2589	422017	99.998
-0.8	0.00002	8	422025	100

Station Information	
Station no.	212460
Station name	Wisemans Ferry
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	312963
Northing	6304569

Summary Statistics	
Time interval (mins)	15
Start of record	10/06/2010
Highest water level recorded (m)	4.732
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.855
Date recorded	17/10/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212460

NSW GOVERNMENT

Wisemans Ferry (212460)
FREQUENCY DISTRIBUTION ANALYSIS

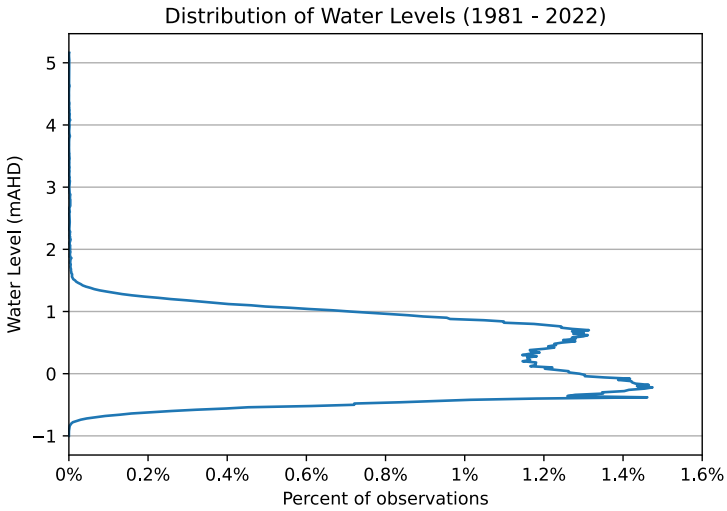
Manly Hydraulics Laboratory

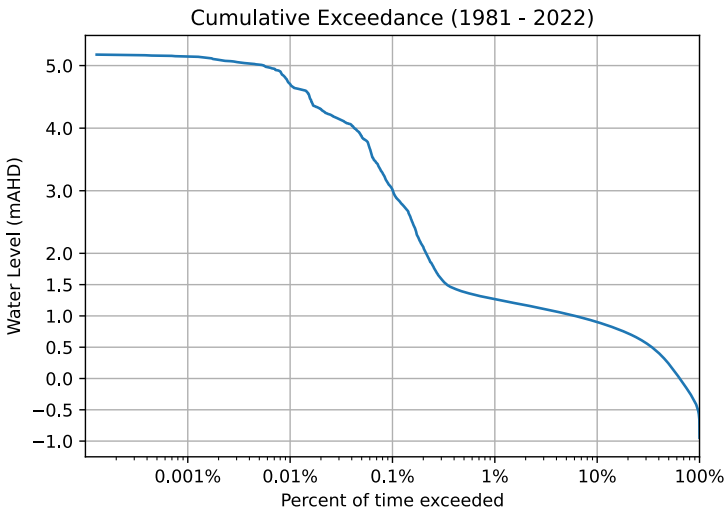
MHL2971
Figure
A179

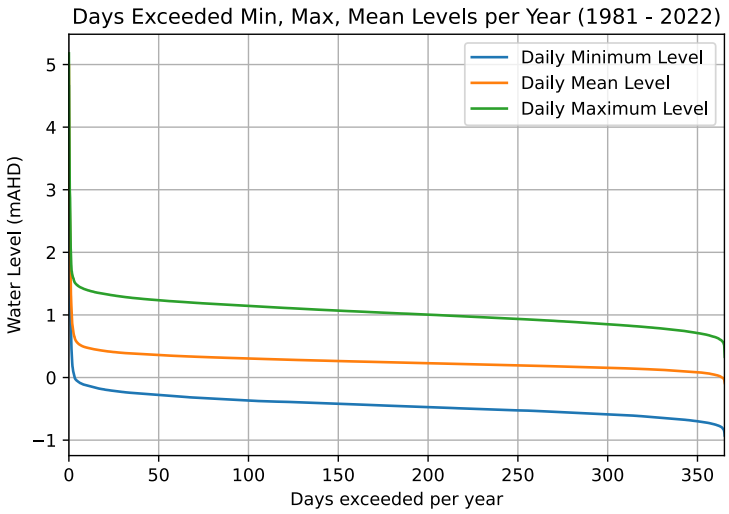
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.3	0.00002	25	25	0.0018517
5.1	0.00006	85	110	0.0081473
4.9	0.00002	27	137	0.010147
4.7	0.00005	73	210	0.015554
4.5	0.00005	62	272	0.020146
4.3	0.00014	187	459	0.033996
4.1	0.00015	197	656	0.048588
3.9	0.00011	143	799	0.059179
3.7	0.00007	88	887	0.065697
3.5	0.00013	177	1064	0.078807
3.3	0.00013	174	1238	0.091694
3.1	0.00016	215	1453	0.10762
2.9	0.00030	402	1855	0.13739
2.7	0.00019	252	2107	0.15606
2.5	0.00017	224	2331	0.17265
2.3	0.00028	373	2704	0.20028
2.1	0.00029	385	3089	0.22879
1.9	0.00040	534	3623	0.26834
1.7	0.00071	953	4576	0.33893
1.5	0.00458	6189	10765	0.79733
1.3	0.02486	33561	44326	3.2831
1.1	0.06817	92035	136361	10.1
0.9	0.11304	152625	288986	21.404
0.7	0.12849	173476	462462	34.253
0.5	0.12025	162357	624819	46.278
0.3	0.11661	157442	782261	57.939
0.1	0.12847	173450	955711	70.786
-0.1	0.14311	193212	1148923	85.097
-0.3	0.11368	153490	1302413	96.465
-0.5	0.03347	45194	1347607	99.812
-0.7	0.00186	2517	1350124	99.999
-0.9	0.00001	15	1350139	100

Station Information	
Station no.	212408
Station name	Webbs Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	312331
Northing	6303939

Summary Statistics	
Time interval (mins)	15
Start of record	01/06/1981
Highest water level recorded (m)	5.177
Date recorded	09/03/2022
Lowest water level recorded (m)	-1.020
Date recorded	04/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212408

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Webbs Creek (212408)
FREQUENCY DISTRIBUTION ANALYSIS

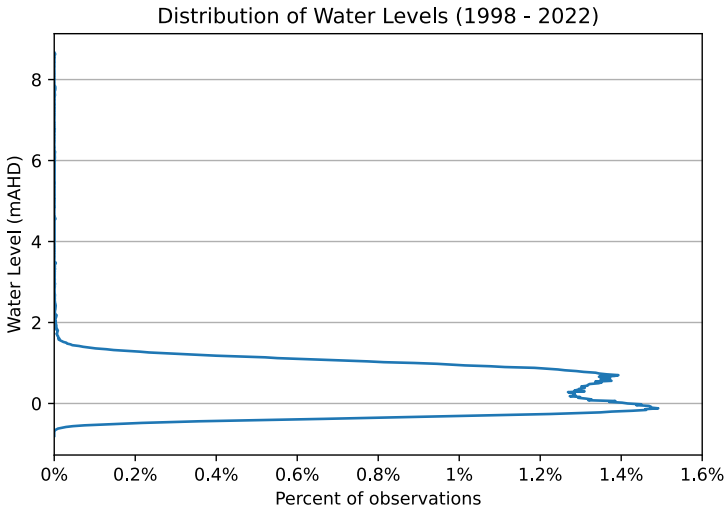
Manly Hydraulics Laboratory

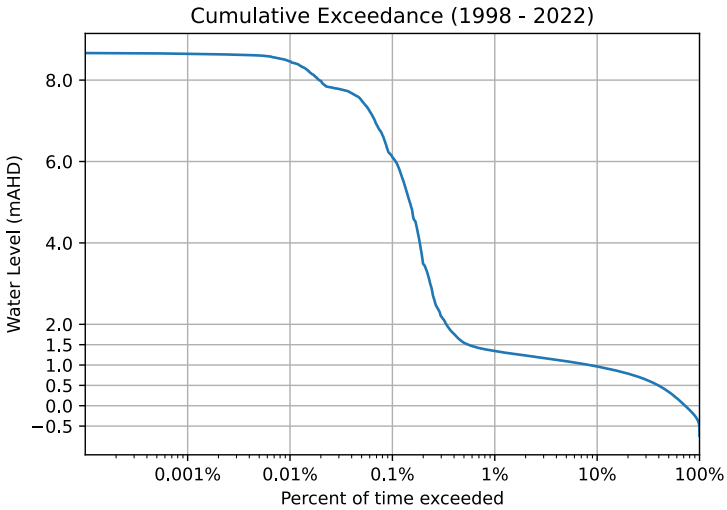
MHL2971
Figure
A180

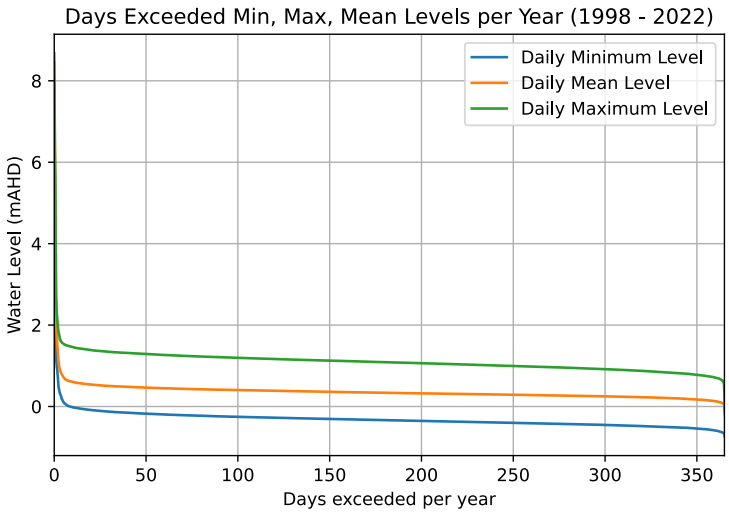
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
8.9	0.00005	44	44	0.0054444
8.6	0.00008	68	112	0.013859
8.3	0.00005	44	156	0.019303
8.0	0.00019	157	313	0.03873
7.7	0.00015	123	436	0.053949
7.4	0.00011	86	522	0.064591
7.1	0.00009	74	596	0.073747
6.8	0.00011	85	681	0.084265
6.5	0.00010	78	759	0.093917
6.2	0.00019	154	913	0.11297
5.9	0.00012	95	1008	0.12473
5.6	0.00011	92	1100	0.13611
5.3	0.00012	96	1196	0.14799
5.0	0.00010	81	1277	0.15801
4.7	0.00014	115	1392	0.17224
4.4	0.00010	80	1472	0.18214
4.1	0.00009	73	1545	0.19117
3.8	0.00008	61	1606	0.19872
3.5	0.00025	201	1807	0.22359
3.2	0.00017	136	1943	0.24042
2.9	0.00016	132	2075	0.25675
2.6	0.00033	266	2341	0.28967
2.3	0.00047	377	2718	0.33632
2.0	0.00086	699	3417	0.42281
1.7	0.00331	2677	6094	0.75405
1.4	0.04043	32675	38769	4.7972
1.1	0.14509	117255	156024	19.306
0.8	0.20287	163954	319978	39.593
0.5	0.19522	157766	477744	59.115
0.2	0.20513	165782	643526	79.628
-0.1	0.18016	145598	789124	97.644
-0.4	0.02356	19037	808161	100
-0.7	0.00000	3	808164	100

Station Information	
Station no.	212407
Station name	Colo Junction
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	303217
Northing	6298185

Summary Statistics	
Time interval (mins)	15
Start of record	13/05/1998
Highest water level recorded (m)	8.671
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.819
Date recorded	01/01/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212407

NSW GOVERNMENT

Colo Junction (212407)
FREQUENCY DISTRIBUTION ANALYSIS

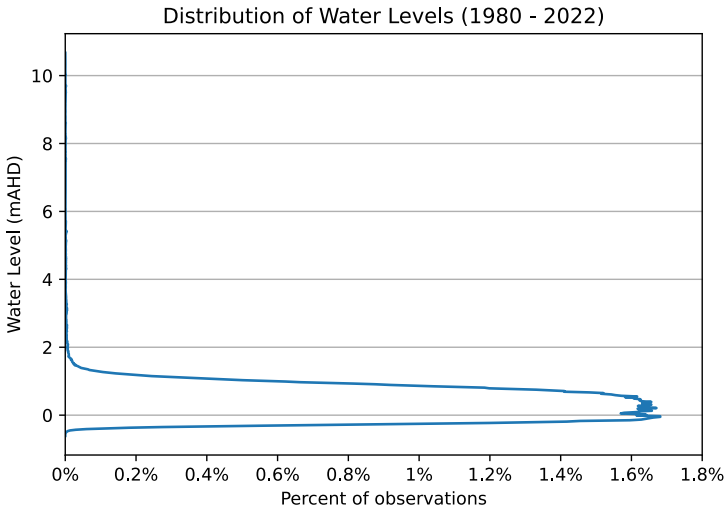
Manly Hydraulics Laboratory

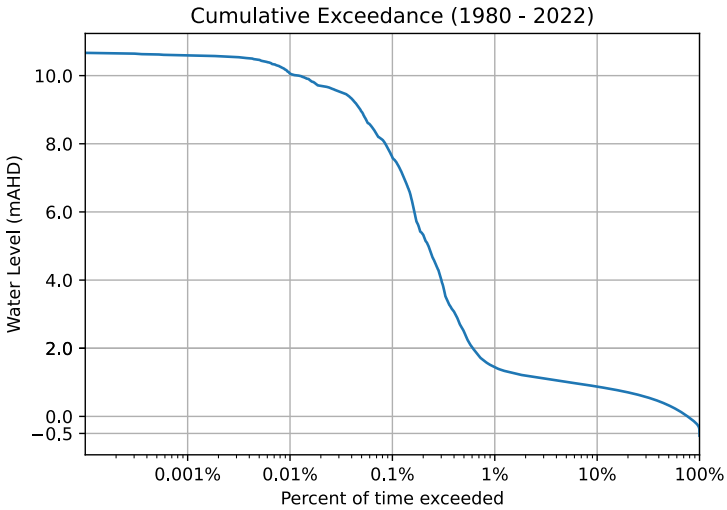
MHL2971
Figure
A181

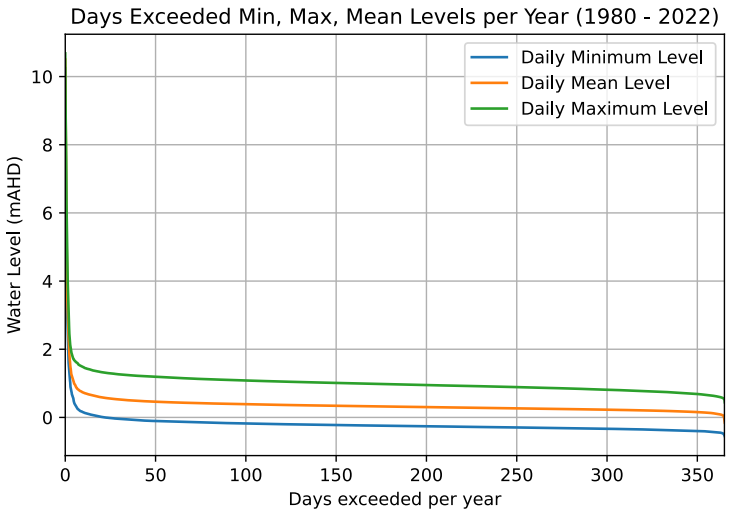
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
11.0	0.00001	13	13	0.00096738
10.6	0.00008	106	119	0.0088552
10.2	0.00008	111	230	0.017115
9.8	0.00020	272	502	0.037356
9.4	0.00011	153	655	0.048741
9.0	0.00010	130	785	0.058415
8.6	0.00014	194	979	0.072851
8.2	0.00020	266	1245	0.092645
7.8	0.00019	262	1507	0.11214
7.4	0.00018	244	1751	0.1303
7.0	0.00017	224	1975	0.14697
6.6	0.00012	157	2132	0.15865
6.2	0.00011	147	2279	0.16959
5.8	0.00022	293	2572	0.19139
5.4	0.00033	450	3022	0.22488
5.0	0.00029	384	3406	0.25345
4.6	0.00035	471	3877	0.2885
4.2	0.00026	347	4224	0.31432
3.8	0.00029	384	4608	0.3429
3.4	0.00071	949	5557	0.41352
3.0	0.00063	851	6408	0.47684
2.6	0.00074	1000	7408	0.55126
2.2	0.00135	1816	9224	0.68639
1.8	0.00390	5243	14467	1.0765
1.4	0.04215	56637	71104	5.2911
1.0	0.22488	302205	373309	27.779
0.6	0.32408	435507	808816	60.187
0.2	0.32335	434527	1243343	92.522
-0.2	0.07478	100498	1343841	100

Station Information	
Station no.	212406
Station name	Sackville
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	303203
Northing	6292012

Summary Statistics	
Time interval (mins)	15
Start of record	14/05/1980
Highest water level recorded (m)	10.679
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.630
Date recorded	20/08/1982







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212406

NSW GOVERNMENT

Sackville (212406)
FREQUENCY DISTRIBUTION ANALYSIS

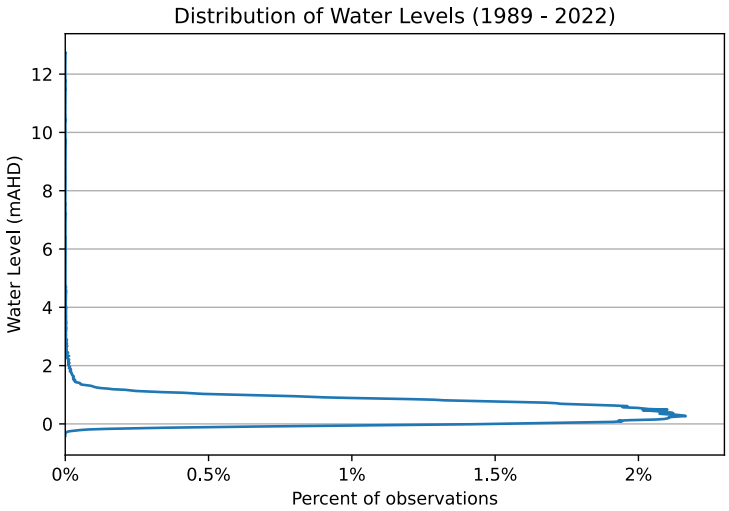
Manly Hydraulics Laboratory

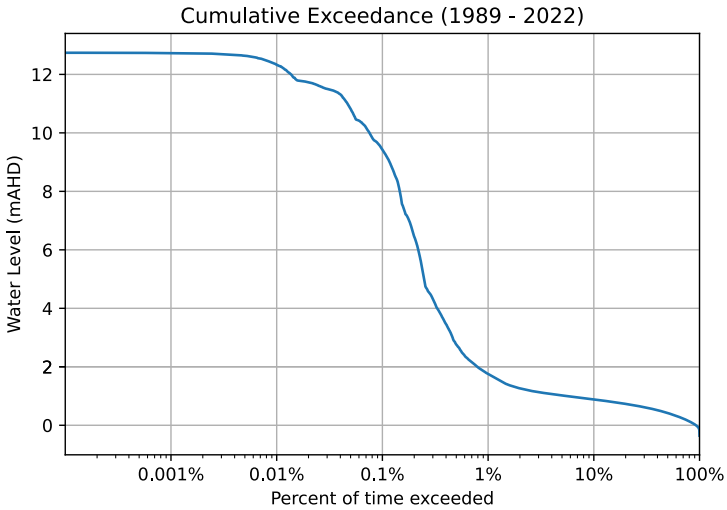
MHL2971
Figure
A182

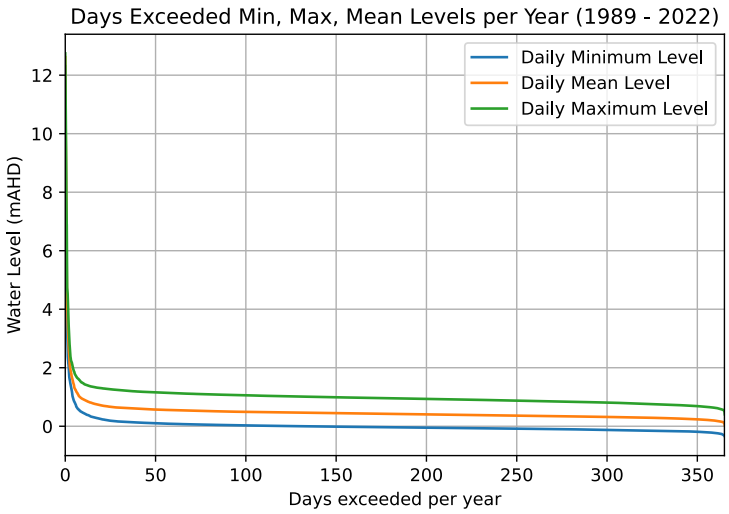
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.9	0.00008	81	81	0.0075774
12.5	0.00005	54	135	0.012629
12.1	0.00009	97	232	0.021703
11.7	0.00019	201	433	0.040506
11.3	0.00008	88	521	0.048738
10.9	0.00007	72	593	0.055474
10.5	0.00017	181	774	0.072406
10.1	0.00015	160	934	0.087374
9.7	0.00018	191	1125	0.10524
9.3	0.00015	161	1286	0.1203
8.9	0.00013	136	1422	0.13303
8.5	0.00011	120	1542	0.14425
8.1	0.00007	74	1616	0.15117
7.7	0.00012	129	1745	0.16324
7.3	0.00020	217	1962	0.18354
6.9	0.00015	156	2118	0.19813
6.5	0.00017	180	2298	0.21497
6.1	0.00013	141	2439	0.22816
5.7	0.00012	127	2566	0.24004
5.3	0.00011	120	2686	0.25127
4.9	0.00031	333	3019	0.28242
4.5	0.00037	400	3419	0.31984
4.1	0.00047	507	3926	0.36727
3.7	0.00055	583	4509	0.42181
3.3	0.00050	539	5048	0.47223
2.9	0.00091	968	6016	0.56278
2.5	0.00166	1776	7792	0.72893
2.1	0.00325	3469	11261	1.0534
1.7	0.00761	8131	19392	1.8141
1.3	0.07456	79703	99095	9.2701
0.9	0.32383	346169	445264	41.654
0.5	0.41733	446114	891378	83.387
0.1	0.16609	177549	1068927	99.996
-0.3	0.00004	44	1068971	100

Station Information	
Station no.	212427
Station name	Ebenezer
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	304388
Northing	6286030

Summary Statistics	
Time interval (mins)	15
Start of record	21/12/1989
Highest water level recorded (m)	12.742
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.430
Date recorded	14/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212427

NSW GOVERNMENT

Ebenezer (212427)
FREQUENCY DISTRIBUTION ANALYSIS

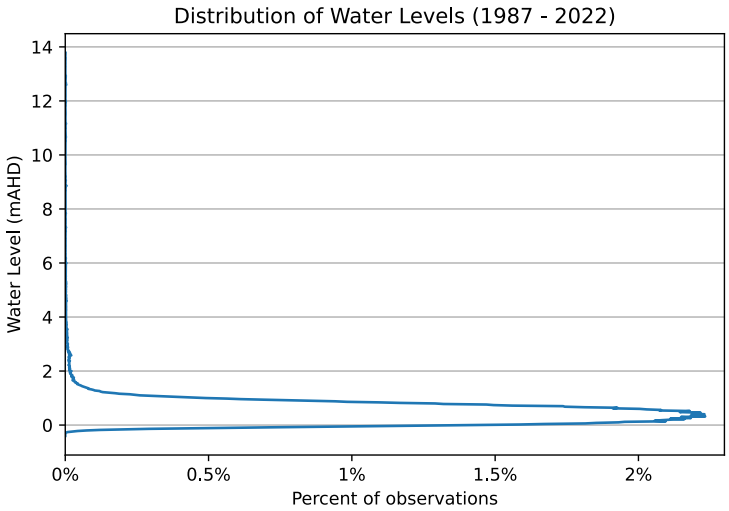
Manly Hydraulics Laboratory

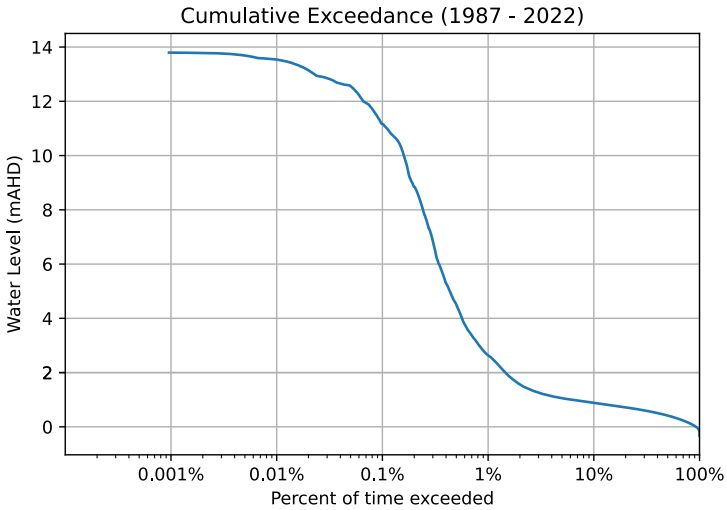
MHL2971
Figure
A183

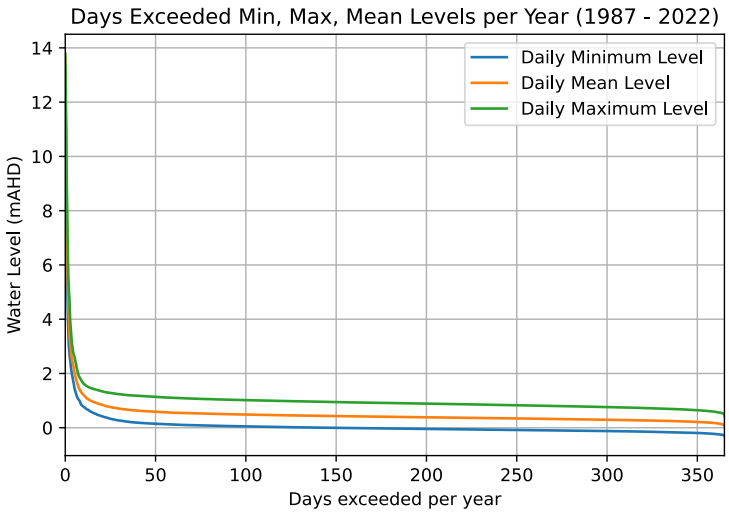
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
14.2	0.00005	55	55	0.0047268
13.7	0.00014	164	219	0.018821
13.2	0.00018	208	427	0.036697
12.7	0.00024	281	708	0.060846
12.2	0.00020	231	939	0.080699
11.7	0.00017	193	1132	0.097285
11.2	0.00031	363	1495	0.12848
10.7	0.00025	290	1785	0.1534
10.2	0.00015	175	1960	0.16844
9.7	0.00013	147	2107	0.18108
9.2	0.00029	342	2449	0.21047
8.7	0.00023	269	2718	0.23359
8.2	0.00023	272	2990	0.25696
7.7	0.00027	309	3299	0.28352
7.2	0.00023	269	3568	0.30664
6.7	0.00021	239	3807	0.32718
6.2	0.00041	477	4284	0.36817
5.7	0.00045	522	4806	0.41303
5.2	0.00056	651	5457	0.46898
4.7	0.00072	835	6292	0.54074
4.2	0.00075	871	7163	0.6156
3.7	0.00140	1633	8796	0.75594
3.2	0.00202	2349	11145	0.95781
2.7	0.00347	4041	15186	1.3051
2.2	0.00478	5567	20753	1.7835
1.7	0.01582	18412	39165	3.3659
1.2	0.18015	209623	248788	21.381
0.7	0.52203	607428	856216	73.584
0.2	0.26415	307361	1163577	99.999
-0.3	0.00001	12	1163589	100

Station Information	
Station no.	212426
Station name	Windsor
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	297588
Northing	6279514

Summary Statistics	
Time interval (mins)	15
Start of record	09/09/1987
Highest water level recorded (m)	13.795
Date recorded	09/03/2022
Lowest water level recorded (m)	-0.420
Date recorded	12/11/1988







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212426

NSW GOVERNMENT

Windsor (212426)
FREQUENCY DISTRIBUTION ANALYSIS

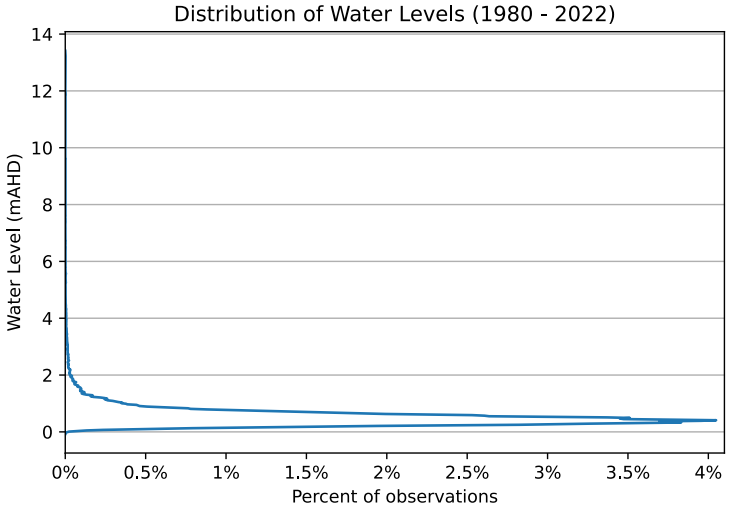
Manly Hydraulics Laboratory

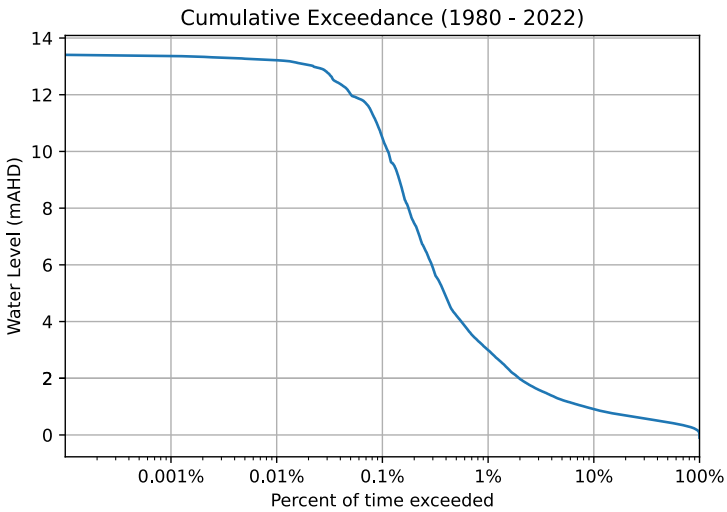
MHL2971
Figure
A184

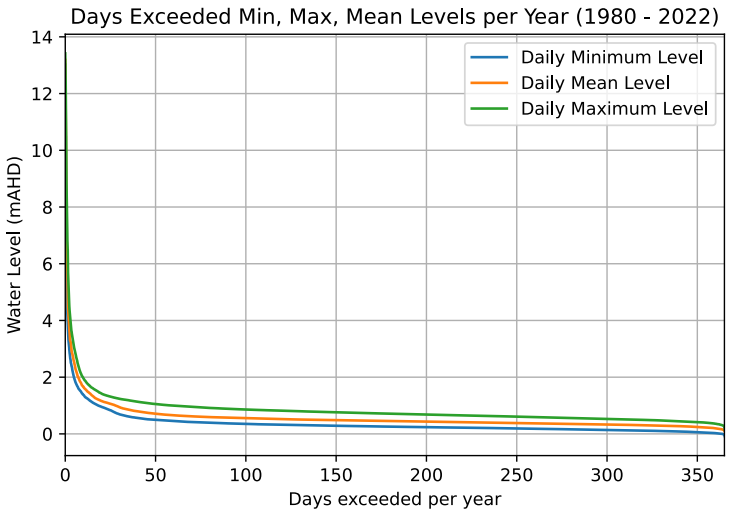
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
13.5	0.00017	230	230	0.016706
13.1	0.00015	208	438	0.031815
12.7	0.00011	153	591	0.042928
12.3	0.00014	193	784	0.056947
11.9	0.00020	269	1053	0.076486
11.5	0.00010	131	1184	0.086002
11.1	0.00009	128	1312	0.095299
10.7	0.00009	121	1433	0.10409
10.3	0.00011	158	1591	0.11556
9.9	0.00014	192	1783	0.12951
9.5	0.00013	174	1957	0.14215
9.1	0.00010	144	2101	0.15261
8.7	0.00010	140	2241	0.16278
8.3	0.00018	241	2482	0.18028
7.9	0.00018	244	2726	0.19801
7.5	0.00022	308	3034	0.22038
7.1	0.00021	292	3326	0.24159
6.7	0.00029	402	3728	0.27079
6.3	0.00029	402	4130	0.29999
5.9	0.00035	484	4614	0.33515
5.5	0.00042	582	5196	0.37742
5.1	0.00041	560	5756	0.4181
4.7	0.00062	855	6611	0.4802
4.3	0.00106	1465	8076	0.58661
3.9	0.00130	1787	9863	0.71642
3.5	0.00212	2917	12780	0.9283
3.1	0.00289	3977	16757	1.2172
2.7	0.00364	5015	21772	1.5814
2.3	0.00560	7709	29481	2.1414
1.9	0.01296	17836	47317	3.4369
1.5	0.03152	43398	90715	6.5892
1.1	0.12191	167839	258554	18.78
0.7	0.59531	819567	1078121	78.311
0.3	0.21689	298595	1376716	100

Station Information	
Station no.	212410
Station name	Freemans Reach
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	294009
Northing	6283328

Summary Statistics	
Time interval (mins)	15
Start of record	03/04/1980
Highest water level recorded (m)	13.416
Date recorded	24/03/2021
Lowest water level recorded (m)	-0.091
Date recorded	25/08/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212410

NSW GOVERNMENT

Freemans Reach (212410)
FREQUENCY DISTRIBUTION ANALYSIS

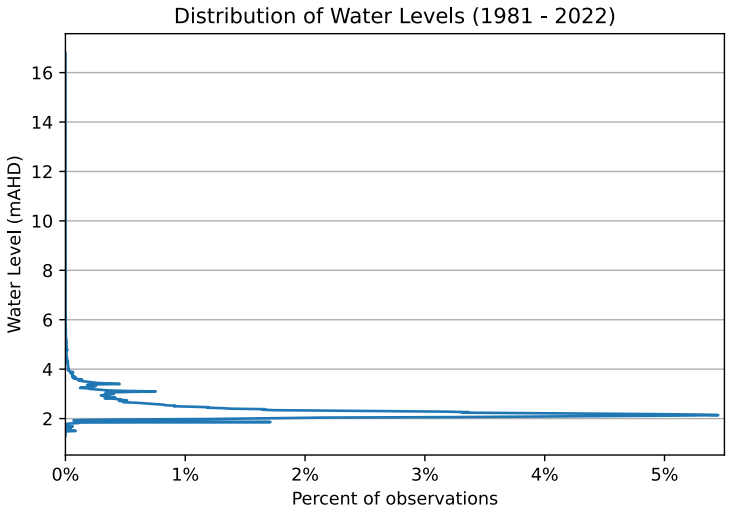
Manly Hydraulics Laboratory

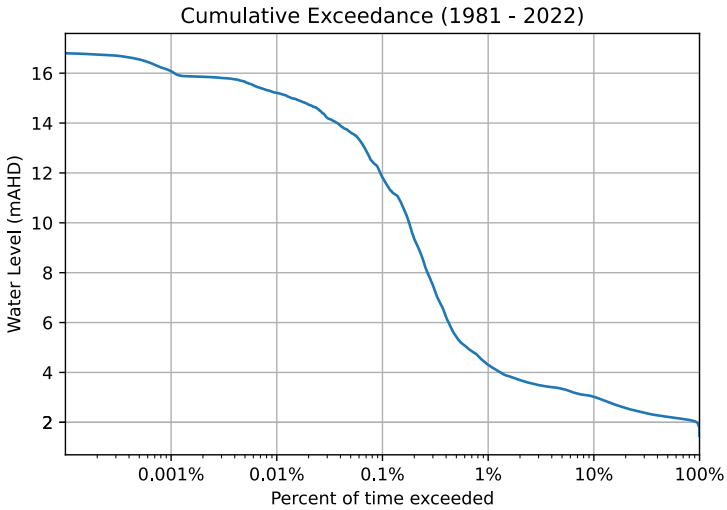
MHL2971
Figure
A185

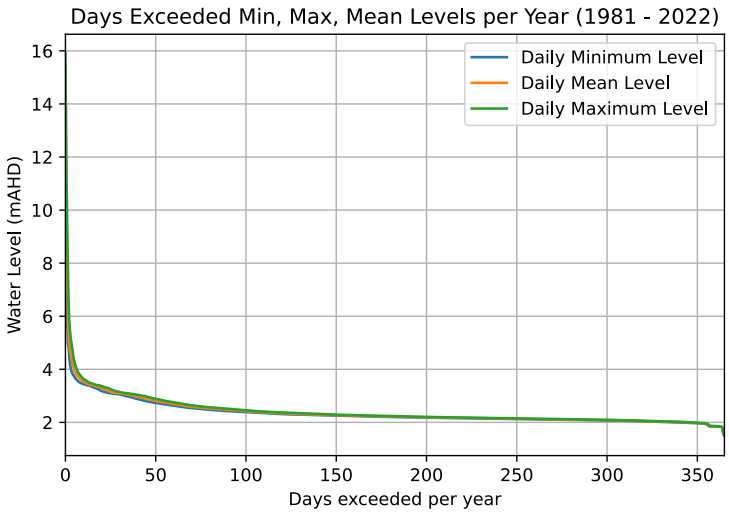
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
17.0	0.00001	8	8	0.00060209
16.5	0.00001	7	15	0.0011289
16.0	0.00005	67	82	0.0061715
15.5	0.00008	101	183	0.013773
15.0	0.00012	157	340	0.025589
14.5	0.00012	157	497	0.037405
14.0	0.00018	238	735	0.055317
13.5	0.00013	167	902	0.067886
13.0	0.00011	143	1045	0.078648
12.5	0.00017	222	1267	0.095357
12.0	0.00016	206	1473	0.11086
11.5	0.00031	410	1883	0.14172
11.0	0.00019	257	2140	0.16106
10.5	0.00017	231	2371	0.17845
10.0	0.00016	215	2586	0.19463
9.5	0.00024	314	2900	0.21826
9.0	0.00024	317	3217	0.24212
8.5	0.00025	327	3544	0.26673
8.0	0.00033	440	3984	0.29984
7.5	0.00031	415	4399	0.33108
7.0	0.00047	622	5021	0.37789
6.5	0.00045	602	5623	0.4232
6.0	0.00064	854	6477	0.48747
5.5	0.00143	1899	8376	0.63039
5.0	0.00243	3224	11600	0.87304
4.5	0.00432	5740	17340	1.305
4.0	0.01638	21762	39102	2.9429
3.5	0.07476	99330	138432	10.419
3.0	0.12481	165835	304267	22.9
2.5	0.71293	947272	1251539	94.193
2.0	0.05720	75995	1327534	99.912
1.5	0.00088	1164	1328698	100

Station Information	
Station no.	212404
Station name	Castlereagh
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	284495
Northing	6275964

Summary Statistics	
Time interval (mins)	15
Start of record	11/11/1981
Highest water level recorded (m)	16.822
Date recorded	21/03/2021
Lowest water level recorded (m)	1.280
Date recorded	27/03/1985







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-212404

NSW GOVERNMENT

Castlereagh (212404)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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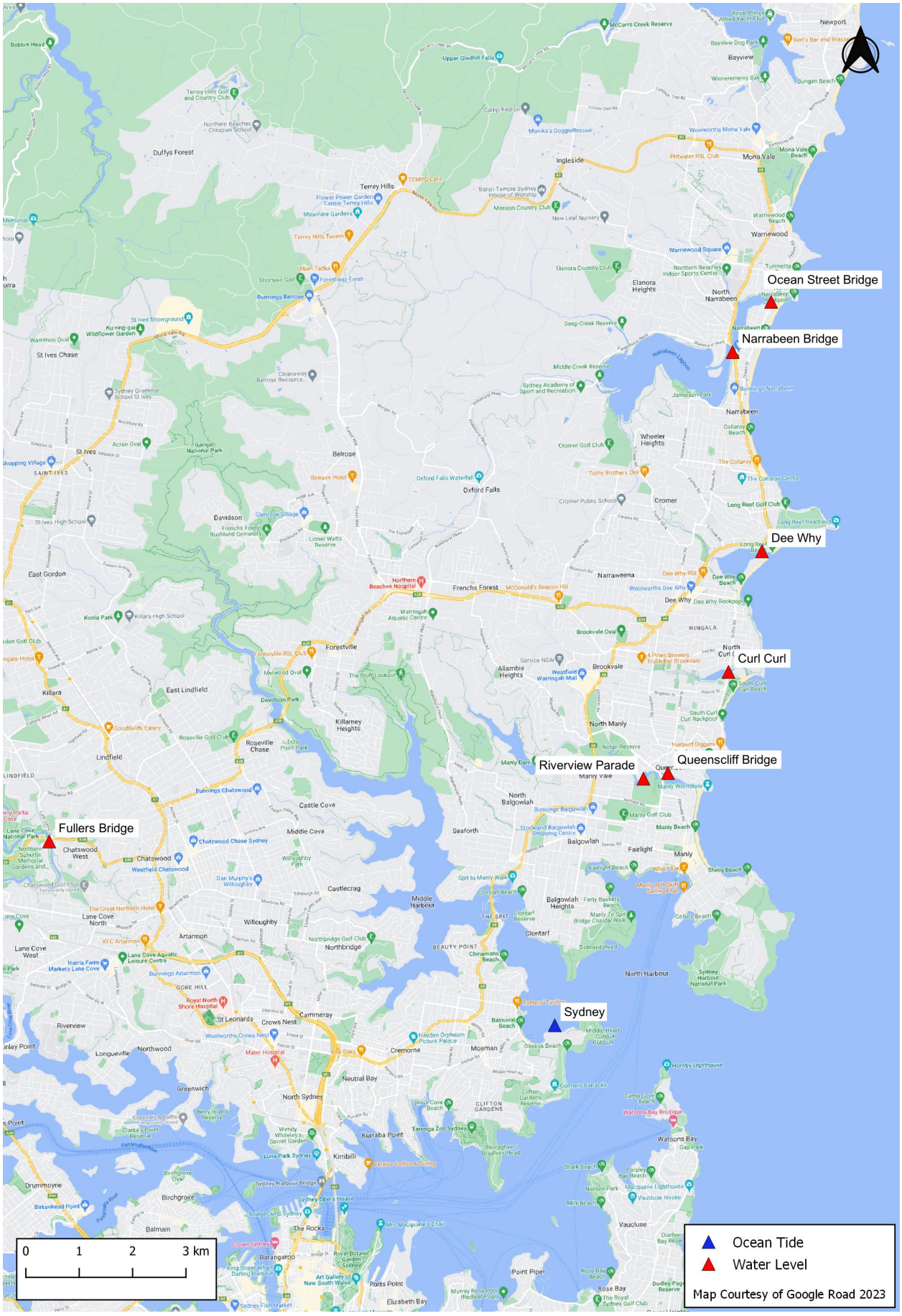


NSW GOVERNMENT

STATION LOCATIONS
NORTH SYDNEY REGION

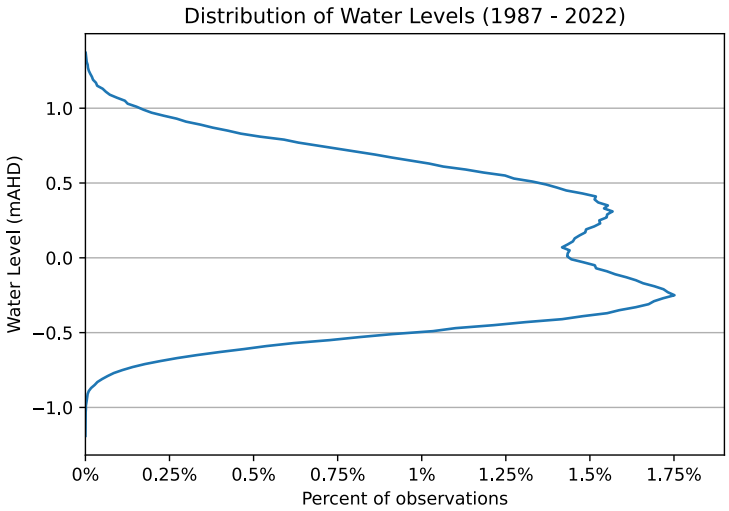
Manly Hydraulics Laboratory

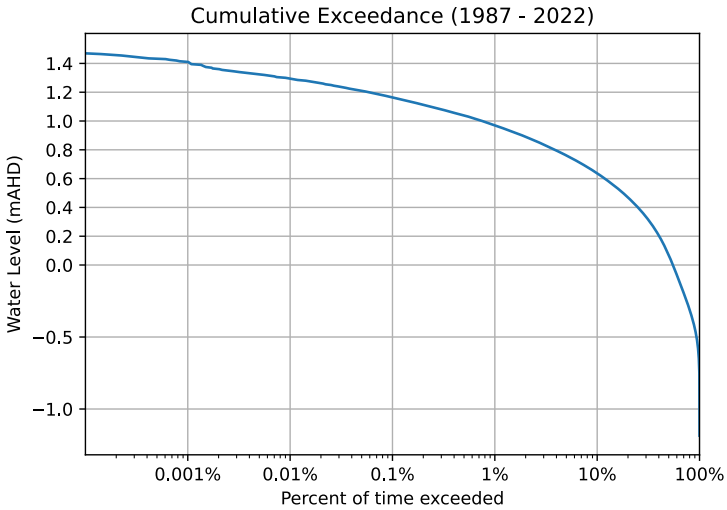
MHL2971
Figure
A187

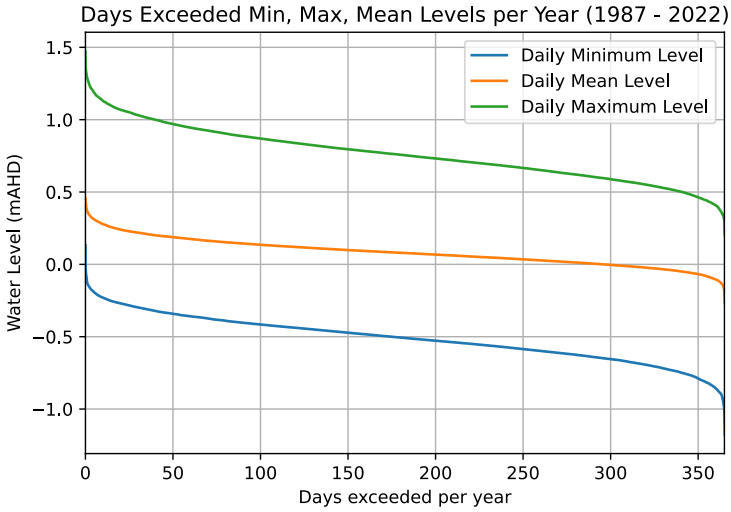
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00000	0	0	0
1.5	0.00001	13	13	0.0010844
1.4	0.00008	96	109	0.0090925
1.3	0.00051	606	715	0.059644
1.2	0.00178	2137	2852	0.23791
1.1	0.00515	6174	9026	0.75293
1.0	0.01099	13172	22198	1.8517
0.9	0.02004	24021	46219	3.8555
0.8	0.03326	39874	86093	7.1817
0.7	0.04696	56294	142387	11.878
0.6	0.06043	72441	214828	17.92
0.5	0.07102	85132	299960	25.022
0.4	0.07677	92034	391994	32.699
0.3	0.07693	92218	484212	40.392
0.2	0.07389	88580	572792	47.781
0.1	0.07163	85871	658663	54.944
0.0	0.07443	89229	747892	62.388
-0.1	0.08104	97147	845039	70.491
-0.2	0.08616	103285	948324	79.107
-0.3	0.08035	96326	1044650	87.142
-0.4	0.06307	75602	1120252	93.449
-0.5	0.03854	46205	1166457	97.303
-0.6	0.01850	22180	1188637	99.153
-0.7	0.00652	7815	1196452	99.805
-0.8	0.00167	2004	1198456	99.973
-0.9	0.00023	280	1198736	99.996
-1.0	0.00004	48	1198784	100
-1.1	0.00000	1	1198785	100

Station Information	
Station no.	213470
Station name	Sydney
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	338842
Northing	6255833

Summary Statistics	
Time interval (mins)	15
Start of record	24/09/1987
Highest water level recorded (m)	1.395
Date recorded	27/04/1990
Lowest water level recorded (m)	-1.205
Date recorded	28/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213470

NSW GOVERNMENT

Sydney (213470)
FREQUENCY DISTRIBUTION ANALYSIS

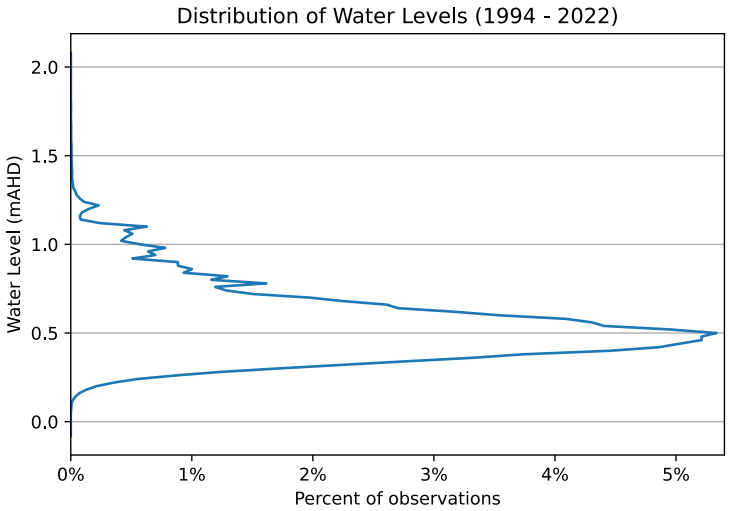
Manly Hydraulics Laboratory

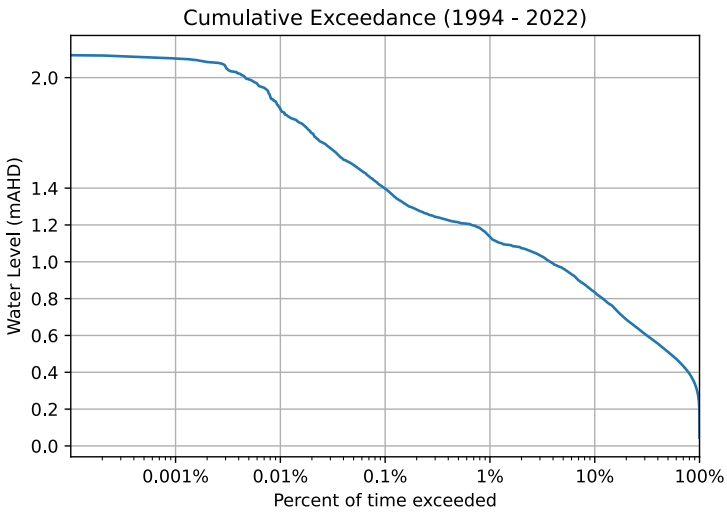
MHL2971
Figure
A188

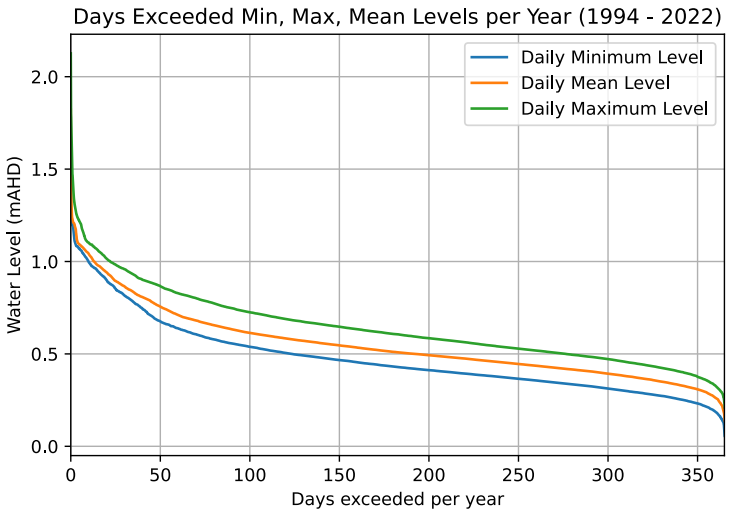
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00003	32	32	0.0032609
2.0	0.00003	33	65	0.0066237
1.9	0.00003	30	95	0.0096809
1.8	0.00009	85	180	0.018343
1.7	0.00013	128	308	0.031386
1.6	0.00025	246	554	0.056455
1.5	0.00040	395	949	0.096707
1.4	0.00072	704	1653	0.16845
1.3	0.00495	4856	6509	0.66329
1.2	0.00636	6239	12748	1.2991
1.1	0.02452	24059	36807	3.7508
1.0	0.03201	31412	68219	6.9518
0.9	0.04998	49043	117262	11.949
0.8	0.06758	66322	183584	18.708
0.7	0.12699	124616	308200	31.407
0.6	0.21289	208909	517109	52.695
0.5	0.25647	251679	768788	78.342
0.4	0.16501	161930	930718	94.844
0.3	0.04683	45959	976677	99.527
0.2	0.00459	4508	981185	99.986
0.1	0.00012	119	981304	99.999

Station Information	
Station no.	213408D
Station name	Ocean Street Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	342897
Northing	6269396

Summary Statistics	
Time interval (mins)	15
Start of record	05/08/1994
Highest water level recorded (m)	2.090
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.100
Date recorded	18/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213408D

NSW GOVERNMENT

Ocean Street Bridge (213408D)
FREQUENCY DISTRIBUTION ANALYSIS

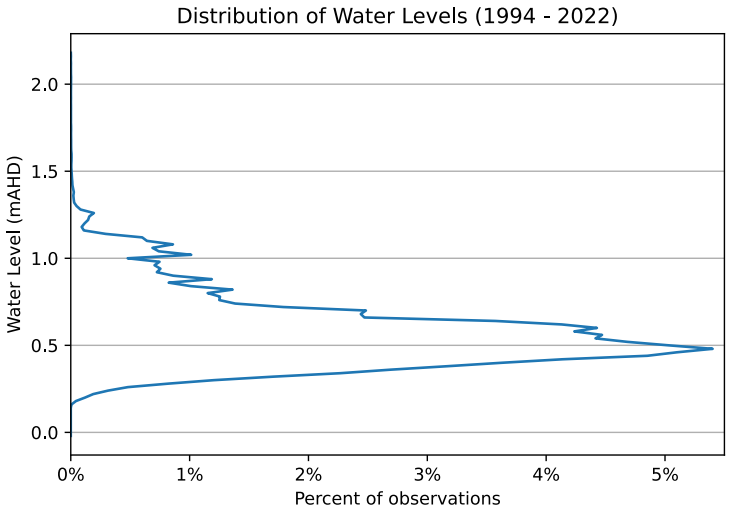
Manly Hydraulics Laboratory

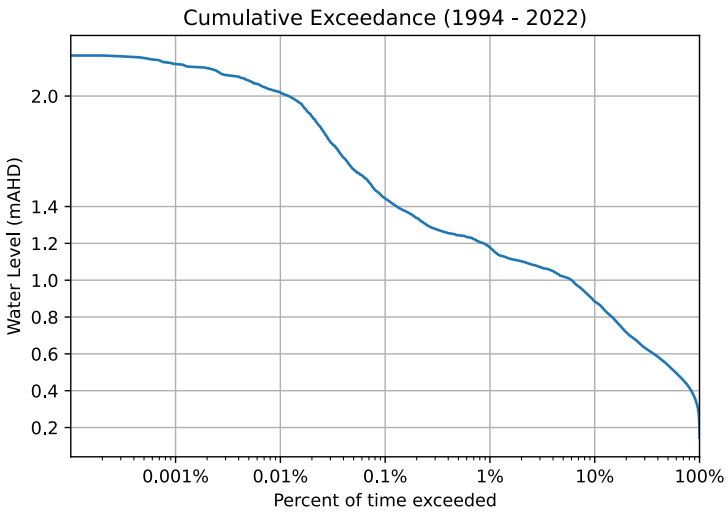
MHL2971
Figure
A189

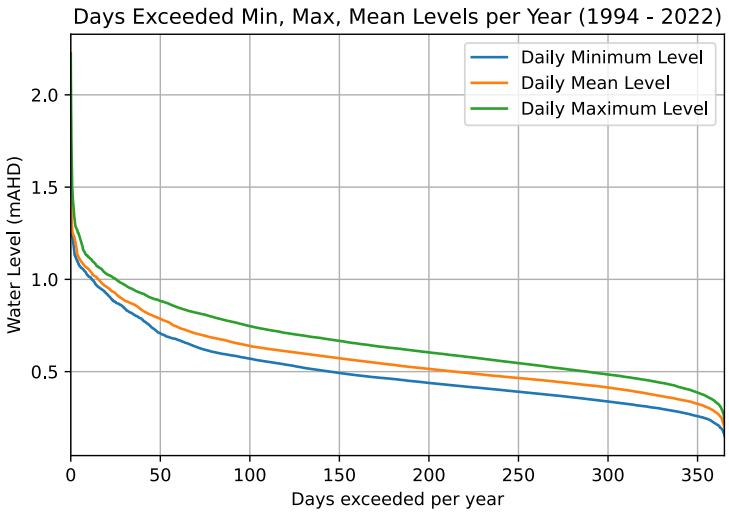
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00004	38	38	0.0036637
2.1	0.00008	81	119	0.011473
2.0	0.00008	78	197	0.018994
1.9	0.00007	70	267	0.025743
1.8	0.00010	102	369	0.035577
1.7	0.00014	149	518	0.049943
1.6	0.00027	282	800	0.077131
1.5	0.00051	526	1326	0.12785
1.4	0.00120	1246	2572	0.24798
1.3	0.00627	6499	9071	0.87457
1.2	0.01212	12572	21643	2.0867
1.1	0.03941	40880	62523	6.0281
1.0	0.03409	35362	97885	9.4375
0.9	0.05246	54409	152294	14.683
0.8	0.06828	70819	223113	21.511
0.7	0.15099	156604	379717	36.61
0.6	0.22232	230586	610303	58.842
0.5	0.24524	254358	864661	83.366
0.4	0.13456	139561	1004222	96.821
0.3	0.03009	31212	1035434	99.831
0.2	0.00169	1752	1037186	99.999

Station Information	
Station no.	213422
Station name	Narrabeen Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	342174
Northing	6268454

Summary Statistics	
Time interval (mins)	15
Start of record	03/08/1994
Highest water level recorded (m)	2.178
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.040
Date recorded	17/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213422

NSW GOVERNMENT

Narrabeen Bridge (213422)
FREQUENCY DISTRIBUTION ANALYSIS

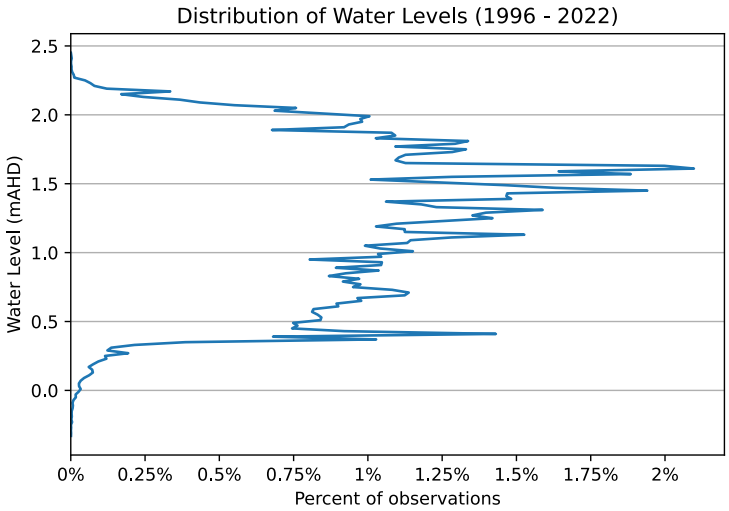
Manly Hydraulics Laboratory

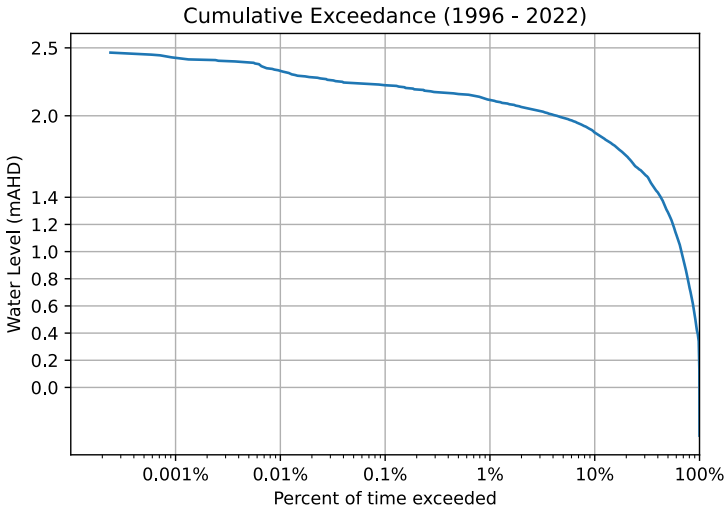
MHL2971
Figure
A190

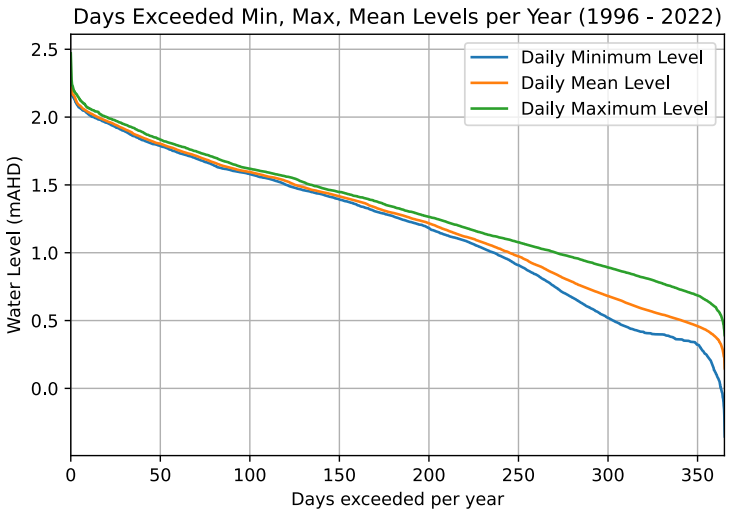
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00004	33	33	0.0037365
2.4	0.00010	90	123	0.013927
2.3	0.00171	1511	1634	0.18501
2.2	0.01074	9488	11122	1.2593
2.1	0.03088	27272	38394	4.3472
2.0	0.04746	41912	80306	9.0928
1.9	0.05144	45435	125741	14.237
1.8	0.06119	54041	179782	20.356
1.7	0.06992	61748	241530	27.348
1.6	0.07333	64760	306290	34.68
1.5	0.07872	69528	375818	42.553
1.4	0.06492	57334	433152	49.044
1.3	0.06905	60988	494140	55.95
1.2	0.05987	52876	547016	61.937
1.1	0.05527	48810	595826	67.464
1.0	0.04923	43477	639303	72.386
0.9	0.04759	42029	681332	77.145
0.8	0.04983	44007	725339	82.128
0.7	0.04973	43920	769259	87.101
0.6	0.04175	36873	806132	91.276
0.5	0.04263	37648	843780	95.539
0.4	0.03131	27655	871435	98.67
0.3	0.00667	5894	877329	99.337
0.2	0.00355	3133	880462	99.692
0.1	0.00182	1605	882067	99.874
0.0	0.00090	795	882862	99.964
-0.1	0.00024	214	883076	99.988
-0.2	0.00010	88	883164	99.998
-0.3	0.00002	18	883182	100

Station Information	
Station no.	213424
Station name	Dee Why
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	342725
Northing	6264718

Summary Statistics	
Time interval (mins)	15
Start of record	11/03/1996
Highest water level recorded (m)	2.466
Date recorded	19/06/2015
Lowest water level recorded (m)	-0.355
Date recorded	31/12/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213424

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Dee Why (213424)
FREQUENCY DISTRIBUTION ANALYSIS

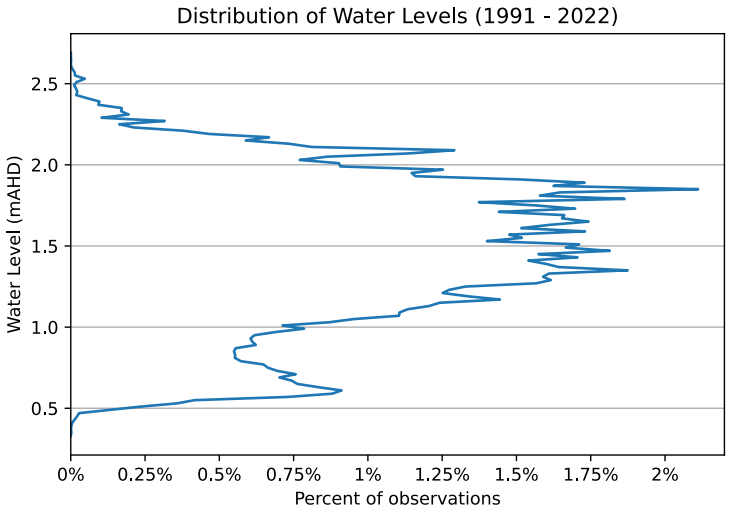
Manly Hydraulics Laboratory

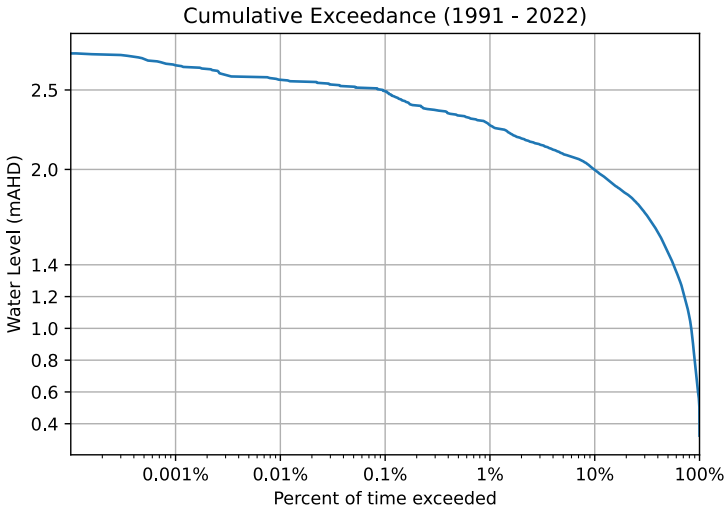
MHL2971
Figure
A191

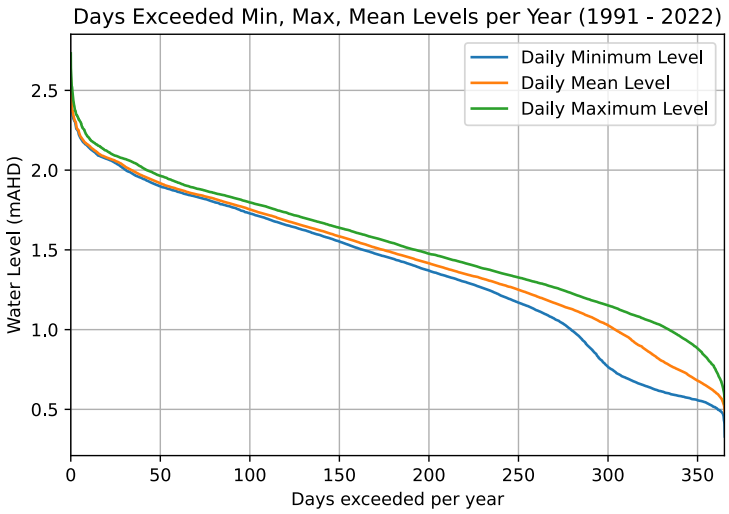
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.7	0.00002	23	23	0.0021639
2.6	0.00093	984	1007	0.094741
2.5	0.00124	1316	2323	0.21855
2.4	0.00672	7146	9469	0.89087
2.3	0.01038	11029	20498	1.9285
2.2	0.03010	31989	52487	4.9381
2.1	0.04906	52144	104631	9.844
2.0	0.05646	60010	164641	15.49
1.9	0.08721	92696	257337	24.211
1.8	0.08003	85061	342398	32.214
1.7	0.08115	86254	428652	40.329
1.6	0.07750	82377	511029	48.079
1.5	0.08419	89487	600516	56.498
1.4	0.08279	87995	688511	64.777
1.3	0.07201	76540	765051	71.978
1.2	0.06468	68745	833796	78.446
1.1	0.04947	52580	886376	83.393
1.0	0.03361	35721	922097	86.753
0.9	0.02861	30412	952509	89.615
0.8	0.03244	34480	986989	92.858
0.7	0.03854	40967	1027956	96.713
0.6	0.02976	31637	1059593	99.689
0.5	0.00304	3234	1062827	99.994
0.4	0.00006	63	1062890	99.999

Station Information	
Station no.	213426
Station name	Curl Curl
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	342098
Northing	6262458

Summary Statistics	
Time interval (mins)	15
Start of record	26/08/1991
Highest water level recorded (m)	2.710
Date recorded	18/05/2010
Lowest water level recorded (m)	0.310
Date recorded	17/04/2011







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213426

NSW GOVERNMENT

Curl Curl (213426)
FREQUENCY DISTRIBUTION ANALYSIS

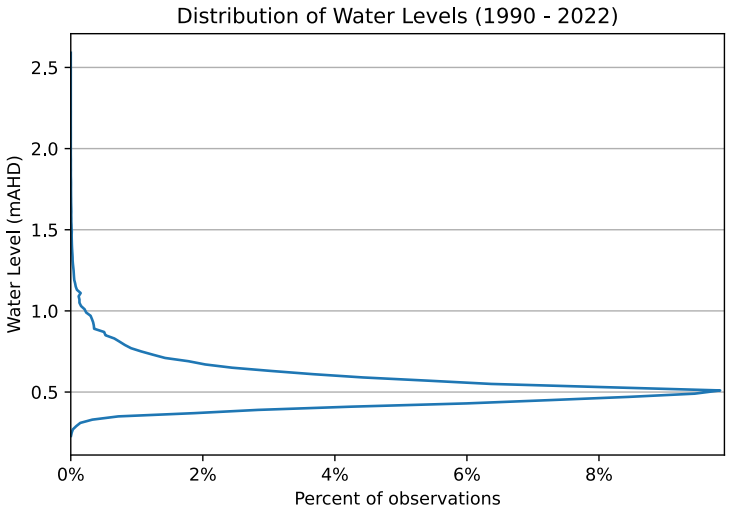
Manly Hydraulics Laboratory

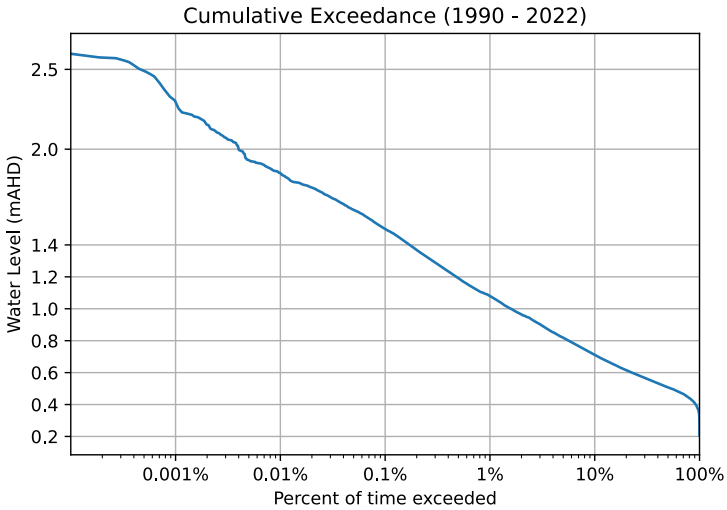
MHL2971
Figure
A192

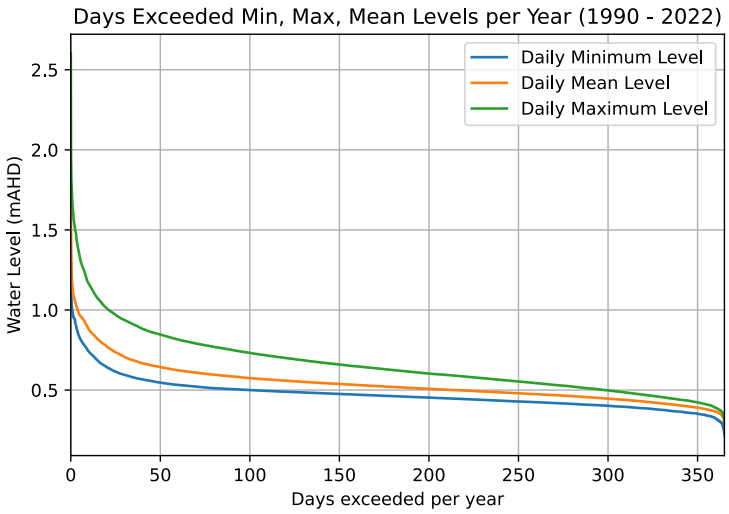
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.6	0.00000	4	4	0.00035774
2.5	0.00000	3	7	0.00062604
2.4	0.00000	3	10	0.00089434
2.3	0.00001	7	17	0.0015204
2.2	0.00001	11	28	0.0025042
2.1	0.00001	15	43	0.0038457
2.0	0.00003	34	77	0.0068864
1.9	0.00006	63	140	0.012521
1.8	0.00018	196	336	0.03005
1.7	0.00027	306	642	0.057417
1.6	0.00042	468	1110	0.099272
1.5	0.00071	797	1907	0.17055
1.4	0.00113	1268	3175	0.28395
1.3	0.00195	2184	5359	0.47928
1.2	0.00385	4302	9661	0.86402
1.1	0.00723	8082	17743	1.5868
1.0	0.01466	16392	34135	3.0528
0.9	0.02584	28891	63026	5.6367
0.8	0.05113	57173	120199	10.75
0.7	0.11739	131257	251456	22.489
0.6	0.31032	346978	598434	53.52
0.5	0.38487	430344	1028778	92.008
0.4	0.07810	87323	1116101	99.818
0.3	0.00182	2037	1118138	100

Station Information	
Station no.	213413
Station name	Riverview Parade
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	340504
Northing	6260457

Summary Statistics	
Time interval (mins)	15
Start of record	21/03/1990
Highest water level recorded (m)	2.602
Date recorded	08/03/2022
Lowest water level recorded (m)	0.210
Date recorded	18/03/2022







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213413

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Riverview Parade (213413)
FREQUENCY DISTRIBUTION ANALYSIS

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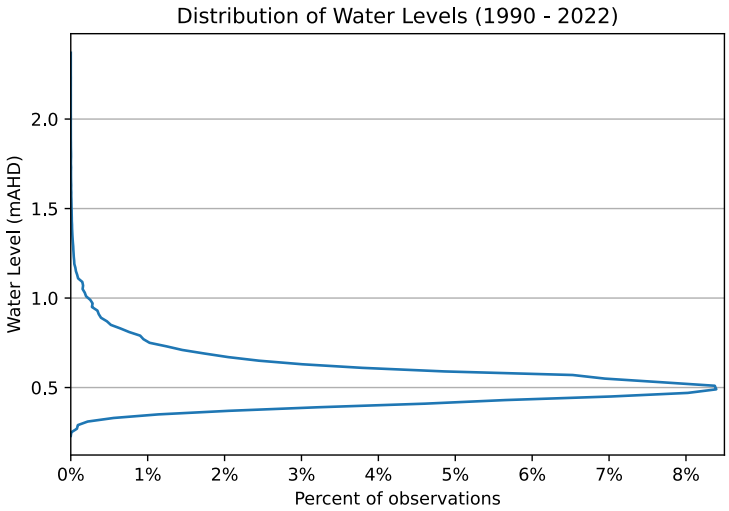
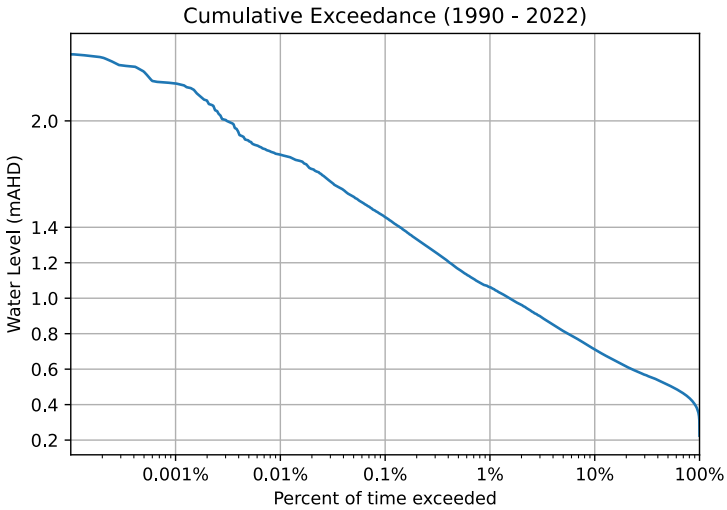
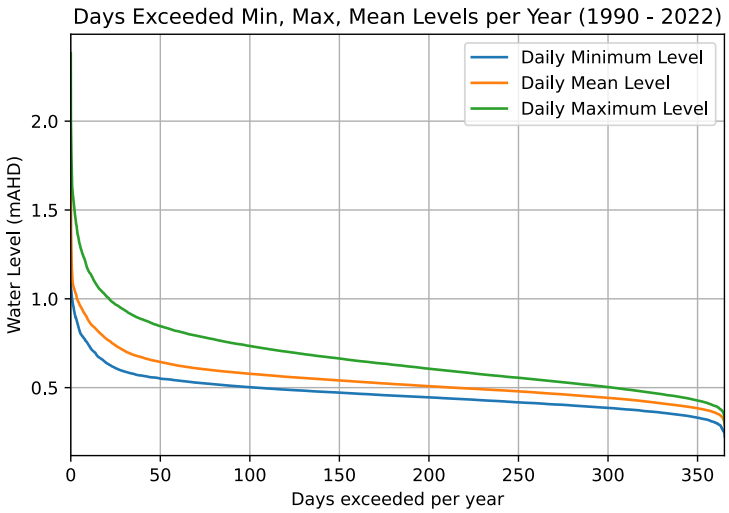
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00000	5	5	0.00049679
2.3	0.00001	8	13	0.0012917
2.2	0.00001	8	21	0.0020865
2.1	0.00001	10	31	0.0030801
2.0	0.00001	15	46	0.0045705
1.9	0.00007	69	115	0.011426
1.8	0.00013	133	248	0.024641
1.7	0.00017	175	423	0.042029
1.6	0.00034	345	768	0.076307
1.5	0.00062	626	1394	0.13851
1.4	0.00102	1023	2417	0.24015
1.3	0.00173	1741	4158	0.41313
1.2	0.00323	3249	7407	0.73595
1.1	0.00794	7992	15399	1.53
1.0	0.01451	14602	30001	2.9808
0.9	0.02577	25934	55935	5.5576
0.8	0.05196	52296	108231	10.754
0.7	0.11795	118712	226943	22.549
0.6	0.32129	323364	550307	54.678
0.5	0.35690	359201	909508	90.367
0.4	0.09371	94318	1003826	99.738
0.3	0.00262	2632	1006458	100

Station Information	
Station no.	213414
Station name	Queenscliff Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	340963
Northing	6260561

Summary Statistics	
Time interval (mins)	15
Start of record	07/09/1990
Highest water level recorded (m)	2.381
Date recorded	08/03/2022
Lowest water level recorded (m)	0.210
Date recorded	11/01/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213414

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Queenscliff Bridge (213414)
FREQUENCY DISTRIBUTION ANALYSIS

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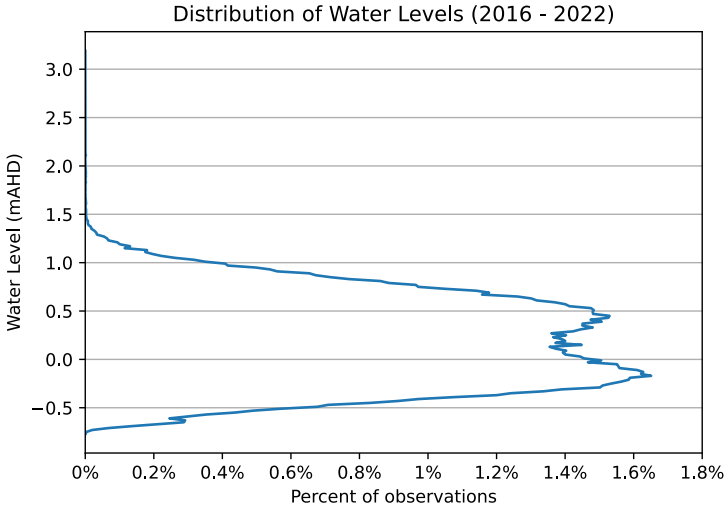
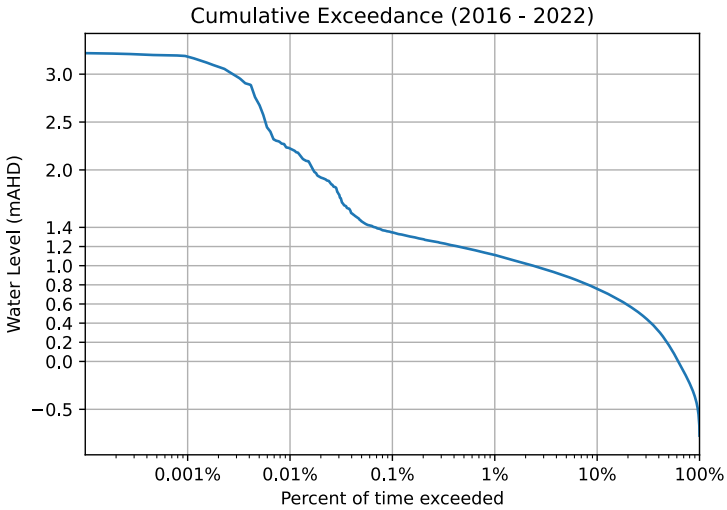
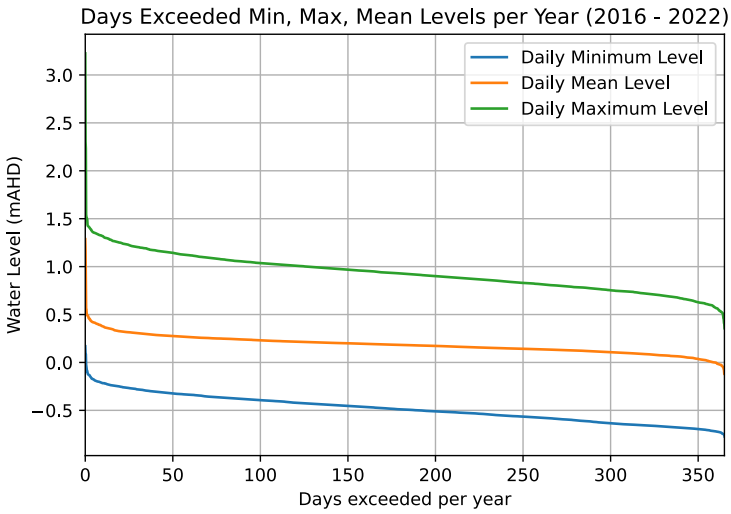
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00002	4	4	0.001839
3.0	0.00002	4	8	0.003678
2.8	0.00001	2	10	0.0045974
2.6	0.00001	2	12	0.0055169
2.4	0.00005	11	23	0.010574
2.2	0.00006	12	35	0.016091
2.0	0.00012	26	61	0.028044
1.8	0.00008	17	78	0.03586
1.6	0.00032	69	147	0.067582
1.4	0.00371	808	955	0.43906
1.2	0.01925	4188	5143	2.3645
1.0	0.05809	12635	17778	8.1733
0.8	0.11030	23992	41770	19.204
0.6	0.14538	31621	73391	33.741
0.4	0.14322	31153	104544	48.064
0.2	0.14002	30456	135000	62.066
0.0	0.15680	34106	169106	77.746
-0.2	0.14217	30924	200030	91.963
-0.4	0.06622	14404	214434	98.585
-0.6	0.01414	3076	217510	99.999

Station Information	
Station no.	213476
Station name	Fullers Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	329370
Northing	6259278

Summary Statistics	
Time interval (mins)	15
Start of record	15/04/2016
Highest water level recorded (m)	3.210
Date recorded	09/02/2020
Lowest water level recorded (m)	-0.791
Date recorded	07/05/2016







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213476

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Fullers Bridge (213476)
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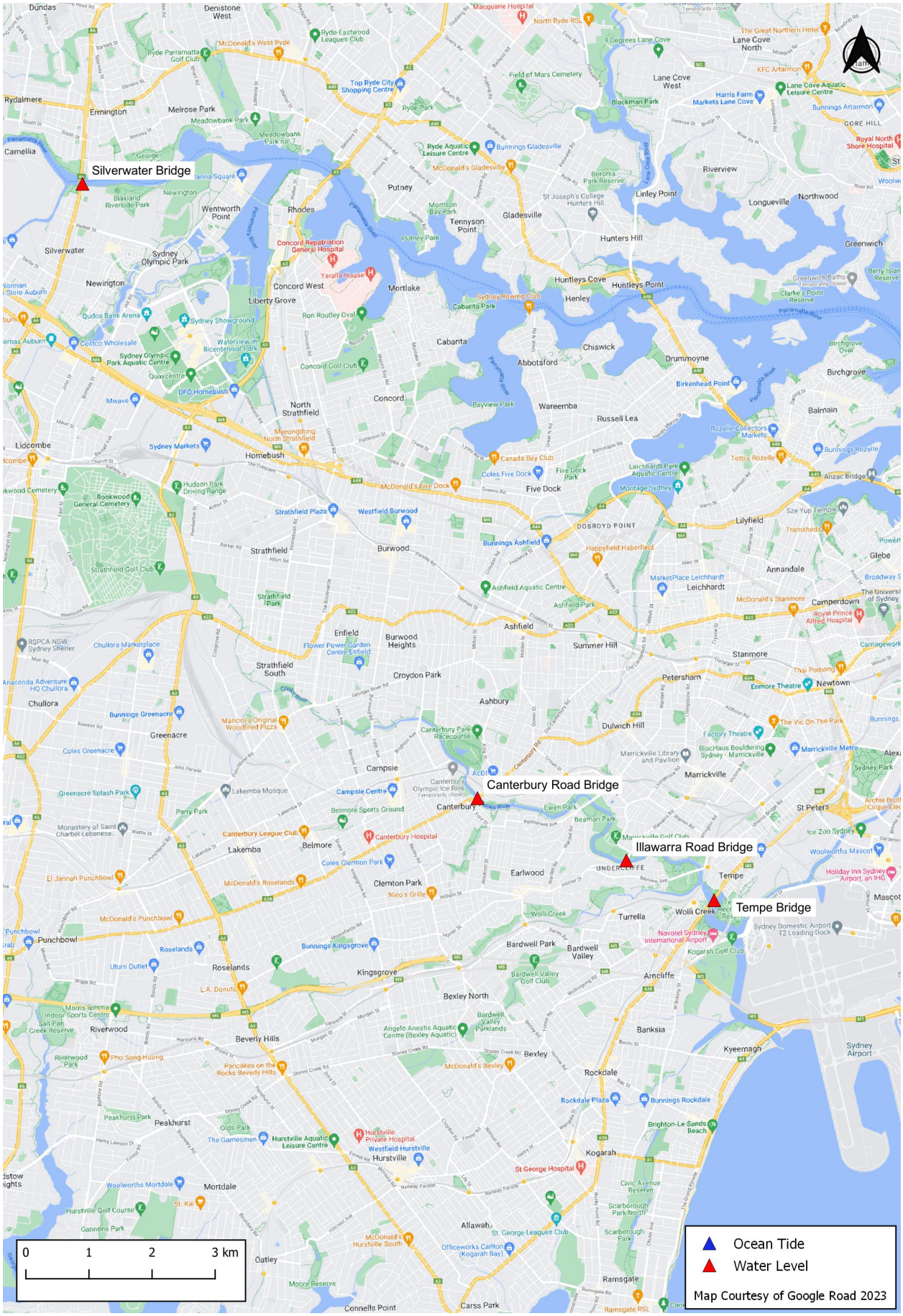

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STATION LOCATIONS
PARRAMATTA RIVER AND COOKS RIVER REGION

Manly Hydraulics Laboratory

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Figure
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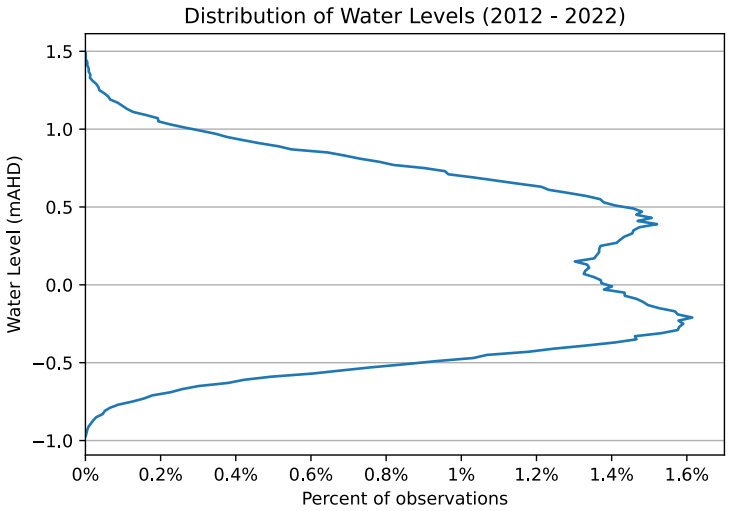
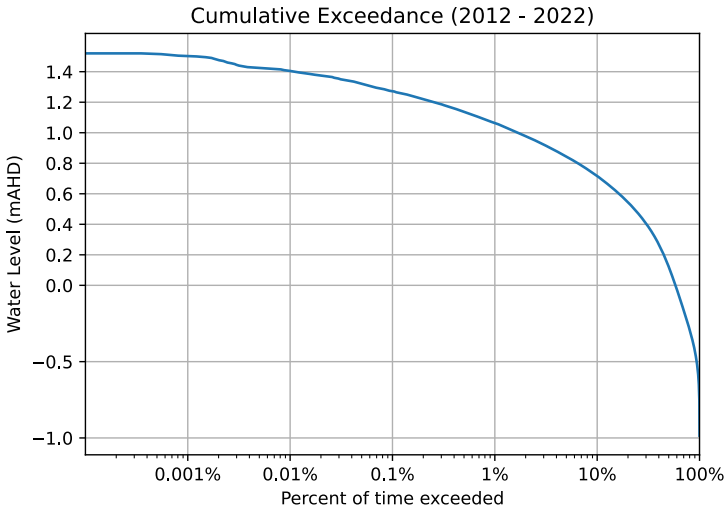
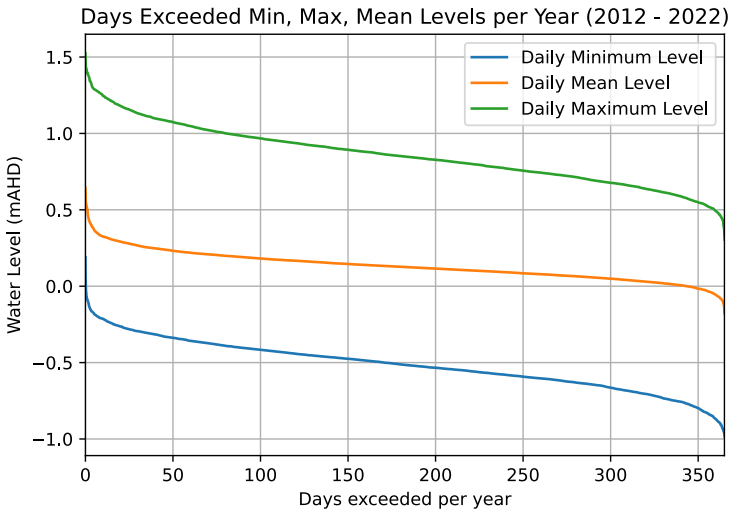
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00010	35	35	0.0097666
1.4	0.00054	194	229	0.063901
1.3	0.00191	686	915	0.25533
1.2	0.00454	1627	2542	0.70933
1.1	0.00964	3455	5997	1.6734
1.0	0.01806	6473	12470	3.4797
0.9	0.03000	10751	23221	6.4797
0.8	0.04305	15428	38649	10.785
0.7	0.05588	20025	58674	16.373
0.6	0.06686	23960	82634	23.059
0.5	0.07354	26354	108988	30.413
0.4	0.07370	26413	135401	37.783
0.3	0.06982	25020	160421	44.765
0.2	0.06692	23982	184403	51.457
0.1	0.06729	24116	208519	58.186
0.0	0.07061	25304	233823	65.247
-0.1	0.07590	27199	261022	72.837
-0.2	0.07941	28458	289480	80.778
-0.3	0.07346	26327	315807	88.124
-0.4	0.05657	20271	336078	93.781
-0.5	0.03605	12918	348996	97.386
-0.6	0.01719	6162	355158	99.105
-0.7	0.00683	2447	357605	99.788
-0.8	0.00186	668	358273	99.974
-0.9	0.00024	87	358360	99.999

Station Information	
Station no.	213435
Station name	Silverwater Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	319683
Northing	6255592

Summary Statistics	
Time interval (mins)	15
Start of record	06/04/2012
Highest water level recorded (m)	1.507
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.988
Date recorded	17/10/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213435

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Silverwater Bridge (213435)
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Manly Hydraulics Laboratory

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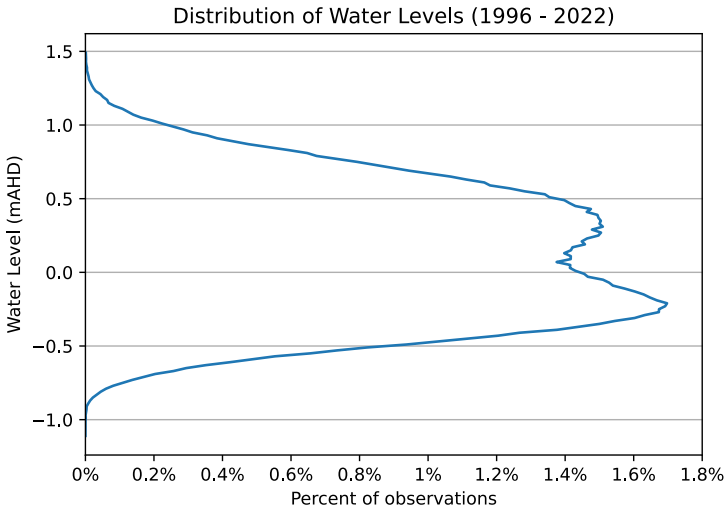
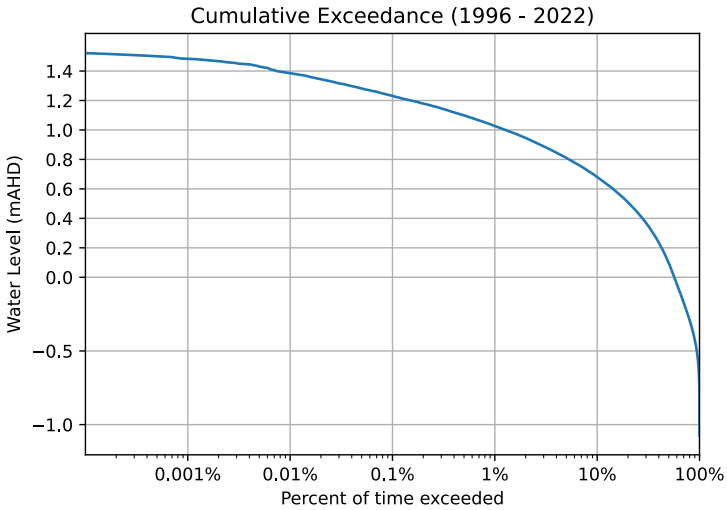
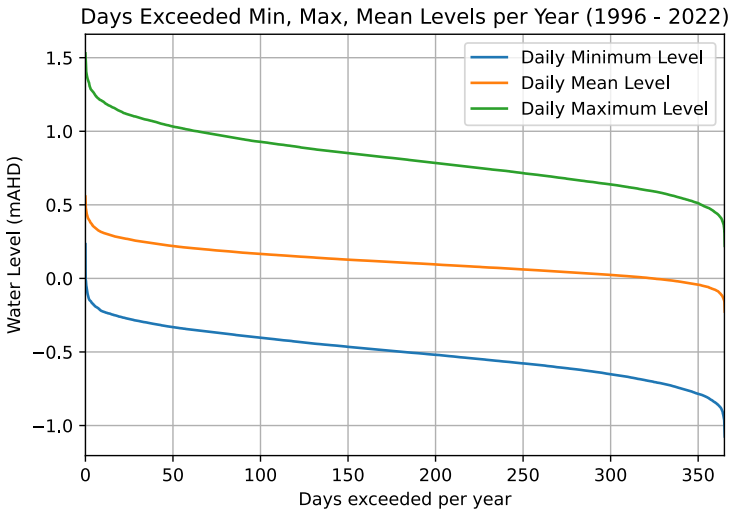
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00007	62	62	0.0067925
1.4	0.00031	287	349	0.038235
1.3	0.00115	1050	1399	0.15327
1.2	0.00341	3112	4511	0.49421
1.1	0.00789	7198	11709	1.2828
1.0	0.01508	13769	25478	2.7913
0.9	0.02538	23169	48647	5.3296
0.8	0.03818	34846	83493	9.1472
0.7	0.05161	47105	130598	14.308
0.6	0.06298	57484	188082	20.606
0.5	0.07127	65052	253134	27.732
0.4	0.07486	68332	321466	35.219
0.3	0.07424	67765	389231	42.643
0.2	0.07129	65071	454302	49.772
0.1	0.07030	64169	518471	56.802
0.0	0.07452	68023	586494	64.254
-0.1	0.08059	73556	660050	72.313
-0.2	0.08391	76592	736642	80.704
-0.3	0.07607	69431	806073	88.31
-0.4	0.05767	52636	858709	94.077
-0.5	0.03464	31615	890324	97.541
-0.6	0.01670	15241	905565	99.21
-0.7	0.00630	5746	911311	99.84
-0.8	0.00145	1322	912633	99.985
-0.9	0.00013	123	912756	99.998
-1.0	0.00001	12	912768	99.999

Station Information	
Station no.	213415
Station name	Tempe Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	329694
Northing	6244231

Summary Statistics	
Time interval (mins)	15
Start of record	07/02/1996
Highest water level recorded (m)	1.495
Date recorded	08/03/2012
Lowest water level recorded (m)	-1.130
Date recorded	24/12/1999







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213415

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Tempe Bridge (213415)
FREQUENCY DISTRIBUTION ANALYSIS

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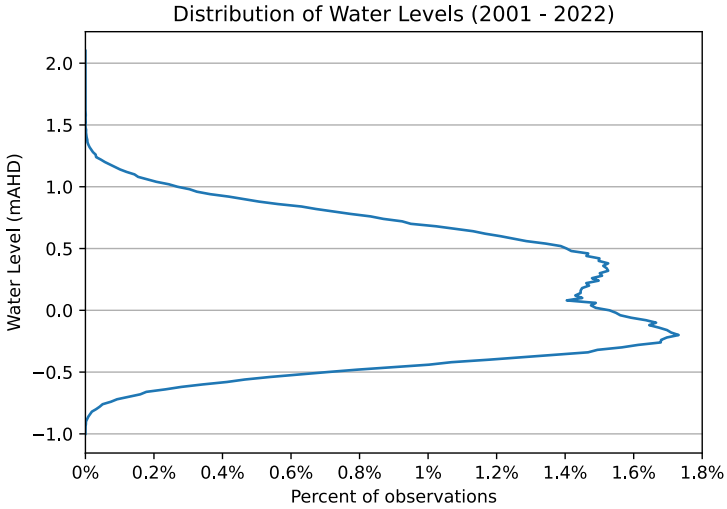
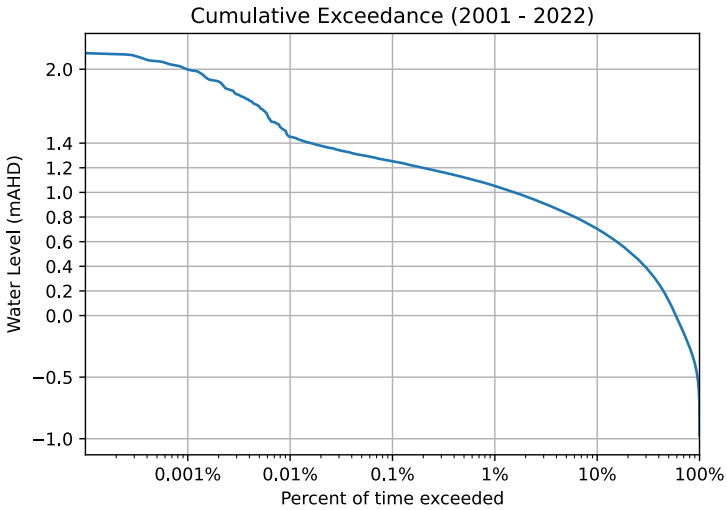
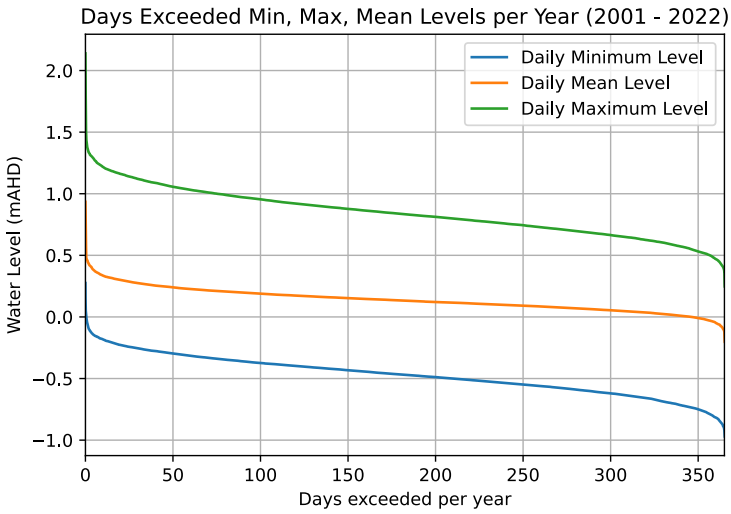
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00001	5	5	0.00069232
2.0	0.00001	7	12	0.0016616
1.9	0.00001	7	19	0.0026308
1.8	0.00002	14	33	0.0045693
1.7	0.00001	9	42	0.0058155
1.6	0.00003	21	63	0.0087233
1.5	0.00007	50	113	0.015646
1.4	0.00036	259	372	0.051509
1.3	0.00145	1047	1419	0.19648
1.2	0.00436	3150	4569	0.63264
1.1	0.00929	6706	11275	1.5612
1.0	0.01680	12135	23410	3.2415
0.9	0.02833	20459	43869	6.0743
0.8	0.04123	29780	73649	10.198
0.7	0.05348	38624	112273	15.546
0.6	0.06475	46766	159039	22.021
0.5	0.07252	52372	211411	29.273
0.4	0.07582	54755	266166	36.855
0.3	0.07447	53780	319946	44.301
0.2	0.07239	52283	372229	51.54
0.1	0.07309	52785	425014	58.849
0.0	0.07867	56813	481827	66.716
-0.1	0.08391	60601	542428	75.107
-0.2	0.08400	60663	603091	83.507
-0.3	0.07157	51686	654777	90.663
-0.4	0.04936	35649	690426	95.599
-0.5	0.02742	19800	710226	98.341
-0.6	0.01193	8613	718839	99.534
-0.7	0.00385	2783	721622	99.919
-0.8	0.00077	558	722180	99.996
-0.9	0.00003	24	722204	100

Station Information	
Station no.	213420
Station name	Illawarra Road Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	328303
Northing	6244862

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/2001
Highest water level recorded (m)	2.108
Date recorded	14/10/2014
Lowest water level recorded (m)	-1.020
Date recorded	01/02/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213420

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Illawarra Road Bridge (213420)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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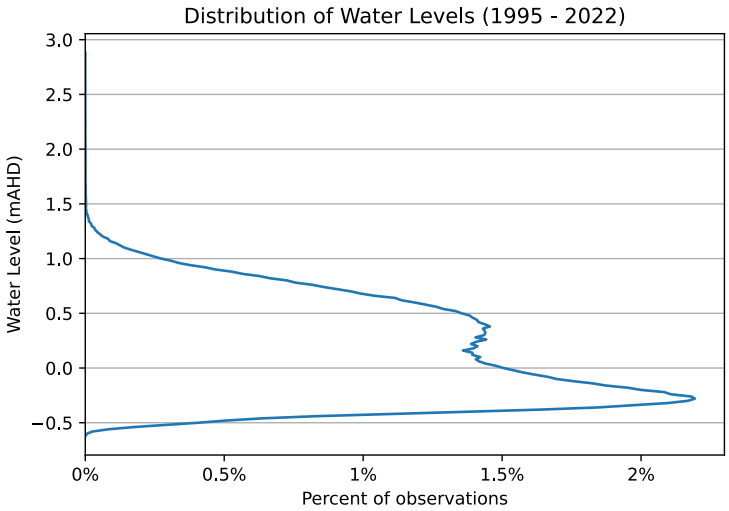
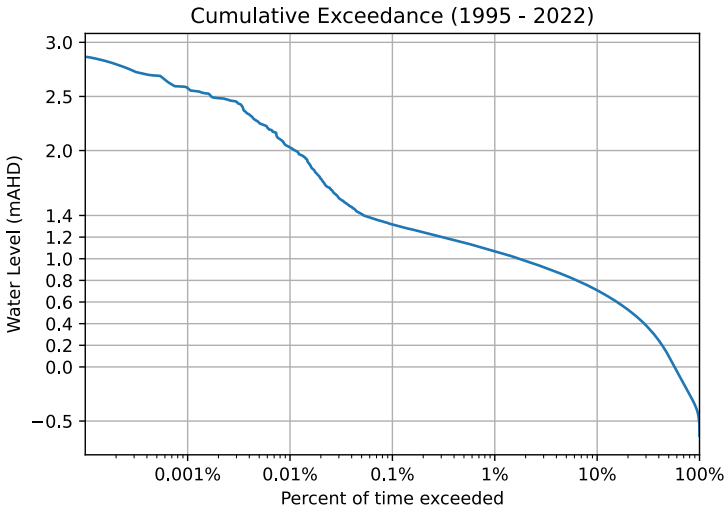
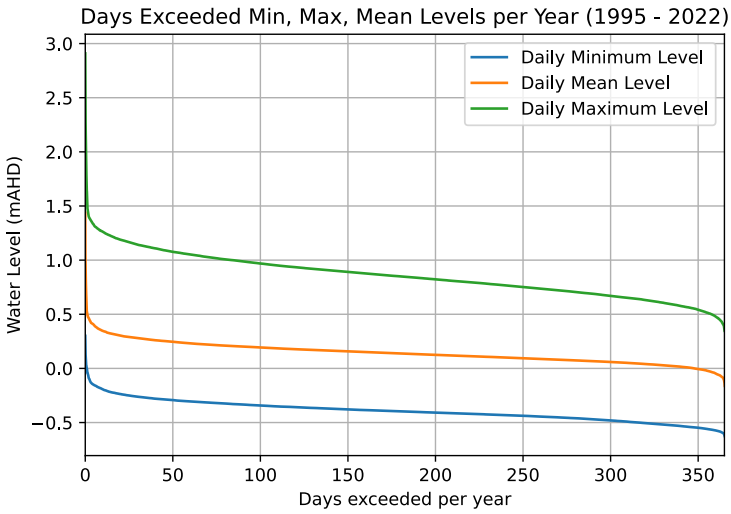
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.9	0.00000	1	1	0.0001074
2.8	0.00000	2	3	0.00032219
2.7	0.00000	3	6	0.00064438
2.6	0.00001	9	15	0.0016109
2.5	0.00002	17	32	0.0034367
2.4	0.00001	8	40	0.0042959
2.3	0.00002	17	57	0.0061216
2.2	0.00002	18	75	0.0080547
2.1	0.00003	30	105	0.011277
2.0	0.00003	32	137	0.014713
1.9	0.00003	27	164	0.017613
1.8	0.00004	36	200	0.021479
1.7	0.00006	55	255	0.027386
1.6	0.00009	87	342	0.03673
1.5	0.00016	145	487	0.052302
1.4	0.00065	604	1091	0.11717
1.3	0.00191	1777	2868	0.30801
1.2	0.00473	4400	7268	0.78056
1.1	0.00963	8971	16239	1.744
1.0	0.01728	16091	32330	3.4721
0.9	0.02858	26608	58938	6.3297
0.8	0.04066	37857	96795	10.395
0.7	0.05242	48810	145605	15.637
0.6	0.06289	58558	204163	21.926
0.5	0.06955	64764	268927	28.882
0.4	0.07201	67051	335978	36.083
0.3	0.07078	65904	401882	43.161
0.2	0.06954	64752	466634	50.115
0.1	0.07164	66709	533343	57.279
0.0	0.07898	73537	606880	65.177
-0.1	0.09101	84741	691621	74.278
-0.2	0.10564	98361	789982	84.841
-0.3	0.09724	90542	880524	94.565
-0.4	0.04446	41400	921924	99.011
-0.5	0.00981	9136	931060	99.993
-0.6	0.00007	68	931128	100

Station Information	
Station no.	213411
Station name	Canterbury Road Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	325944
Northing	6245849

Summary Statistics	
Time interval (mins)	15
Start of record	02/05/1995
Highest water level recorded (m)	2.890
Date recorded	14/10/2014
Lowest water level recorded (m)	-0.640
Date recorded	17/10/2017







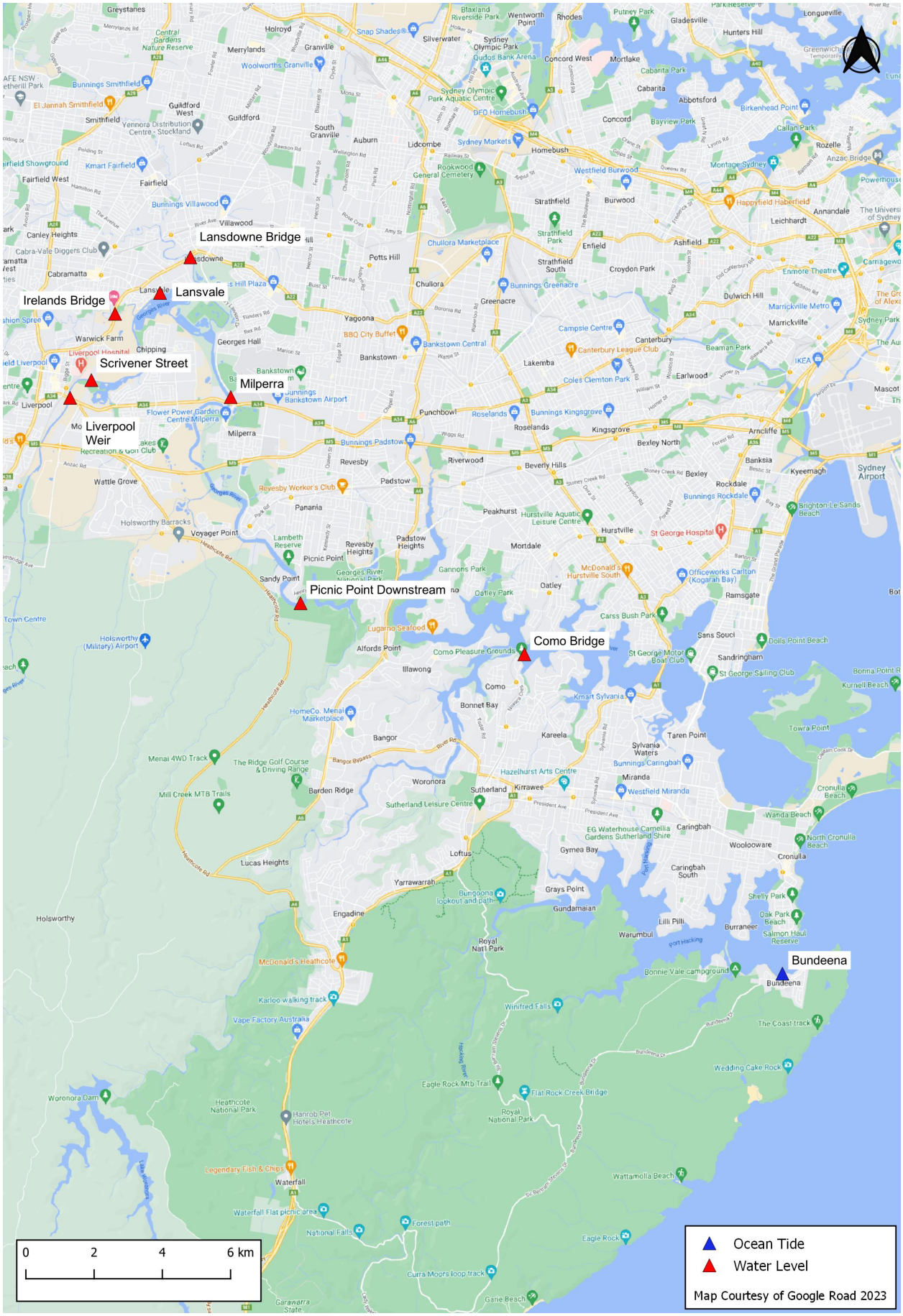
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213411

NSW GOVERNMENT

Canterbury Road Bridge (213411)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A200



NSW GOVERNMENT

STATION LOCATIONS
GEORGES RIVER REGION

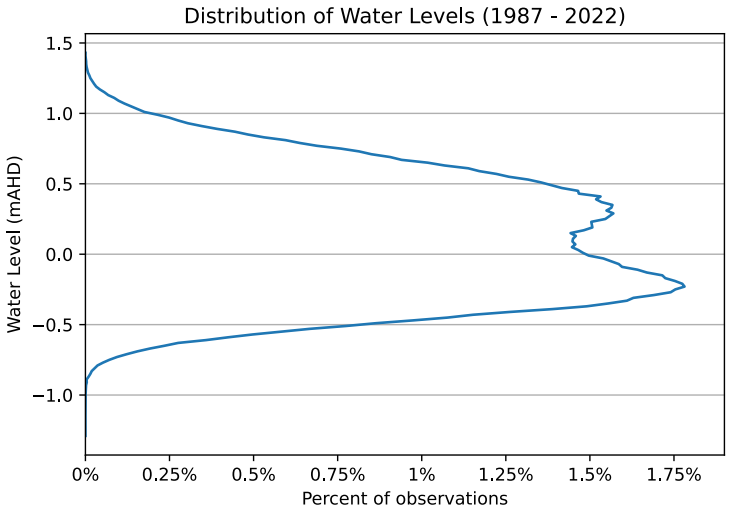
Manly Hydraulics Laboratory

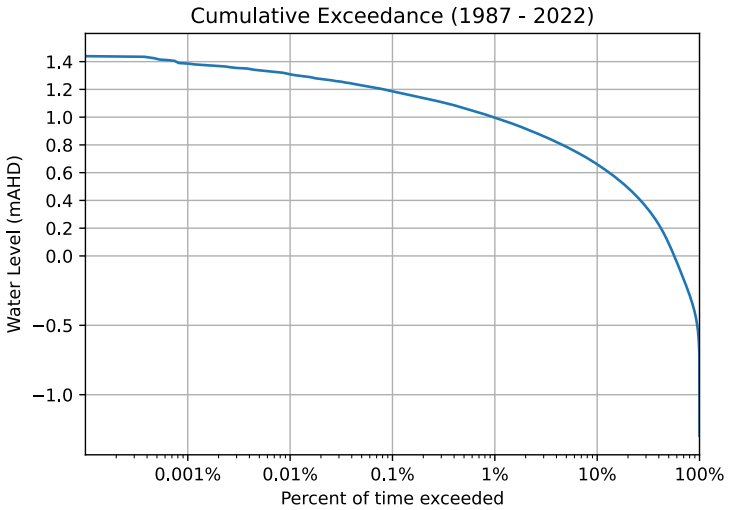
Report MHL2902
Figure
A201

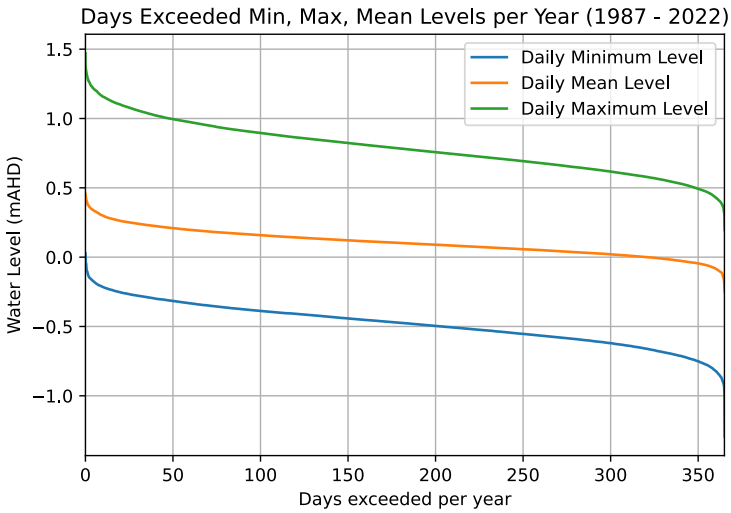
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00001	9	9	0.00083852
1.4	0.00011	118	127	0.011832
1.3	0.00072	768	895	0.083386
1.2	0.00253	2716	3611	0.33643
1.1	0.00628	6741	10352	0.96449
1.0	0.01308	14041	24393	2.2727
0.9	0.02315	24847	49240	4.5877
0.8	0.03620	38849	88089	8.2072
0.7	0.04933	52946	141035	13.14
0.6	0.06212	66679	207714	19.353
0.5	0.07169	76946	284660	26.522
0.4	0.07740	83072	367732	34.261
0.3	0.07705	82701	450433	41.966
0.2	0.07365	79045	529478	49.331
0.1	0.07278	78120	607598	56.609
0.0	0.07722	82880	690478	64.331
-0.1	0.08419	90361	780839	72.75
-0.2	0.08795	94395	875234	81.545
-0.3	0.07826	83993	959227	89.37
-0.4	0.05593	60030	1019257	94.963
-0.5	0.03162	33937	1053194	98.125
-0.6	0.01345	14436	1067630	99.47
-0.7	0.00430	4611	1072241	99.9
-0.8	0.00089	953	1073194	99.989
-0.9	0.00010	102	1073296	99.998
-1.0	0.00002	19	1073315	100
-1.1	0.00000	0	1073315	100
-1.2	0.00000	1	1073316	100

Station Information	
Station no.	214452
Station name	Bundeena
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	329394
Northing	6227133

Summary Statistics	
Time interval (mins)	15
Start of record	20/11/1987
Highest water level recorded (m)	1.454
Date recorded	15/06/2014
Lowest water level recorded (m)	-1.307
Date recorded	21/04/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214452

NSW GOVERNMENT

Bundeena (214452)
FREQUENCY DISTRIBUTION ANALYSIS

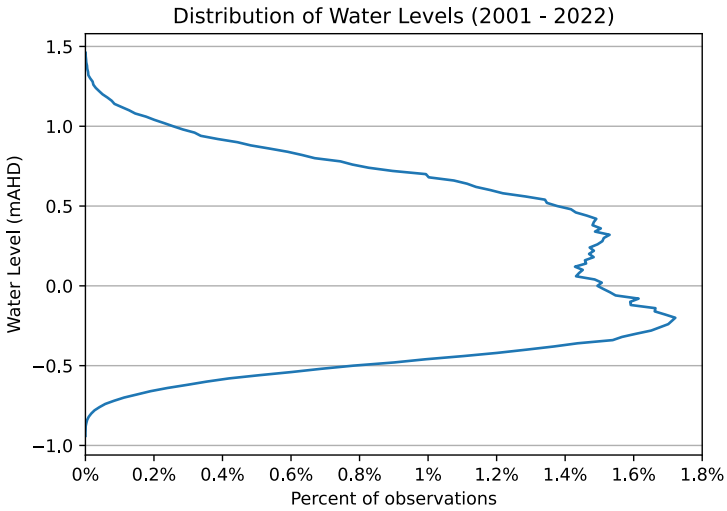
Manly Hydraulics Laboratory

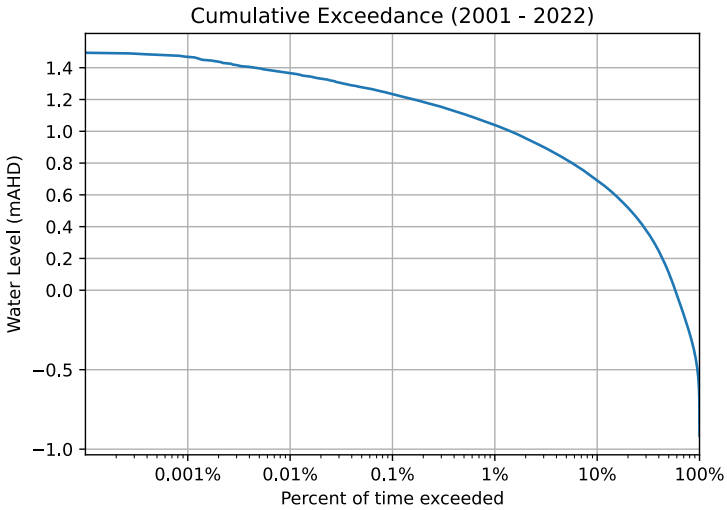
MHL2971
Figure
A202

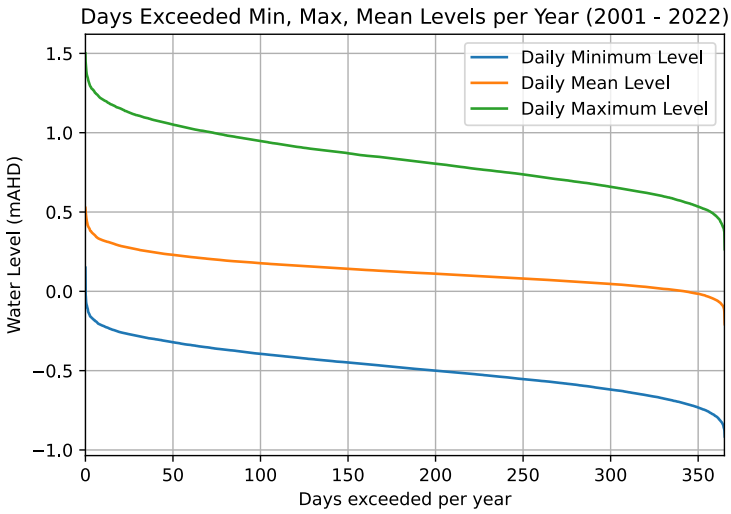
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00005	33	33	0.0045427
1.4	0.00029	208	241	0.033175
1.3	0.00129	934	1175	0.16175
1.2	0.00382	2772	3947	0.54333
1.1	0.00880	6395	10342	1.4236
1.0	0.01581	11488	21830	3.005
0.9	0.02686	19514	41344	5.6913
0.8	0.03915	28439	69783	9.6061
0.7	0.05324	38678	108461	14.93
0.6	0.06372	46289	154750	21.302
0.5	0.07179	52153	206903	28.482
0.4	0.07485	54372	261275	35.966
0.3	0.07471	54276	315551	43.438
0.2	0.07301	53036	368587	50.738
0.1	0.07317	53152	421739	58.055
0.0	0.07698	55925	477664	65.754
-0.1	0.08199	59558	537222	73.952
-0.2	0.08461	61465	598687	82.413
-0.3	0.07515	54594	653281	89.928
-0.4	0.05485	39846	693127	95.413
-0.5	0.02997	21768	714895	98.41
-0.6	0.01233	8954	723849	99.643
-0.7	0.00322	2338	726187	99.964
-0.8	0.00035	256	726443	100
-0.9	0.00000	3	726446	100

Station Information	
Station no.	213425
Station name	Como Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	321829
Northing	6236499

Summary Statistics	
Time interval (mins)	15
Start of record	14/02/2001
Highest water level recorded (m)	1.468
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.960
Date recorded	08/09/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213425

NSW GOVERNMENT

Como Bridge (213425)
FREQUENCY DISTRIBUTION ANALYSIS

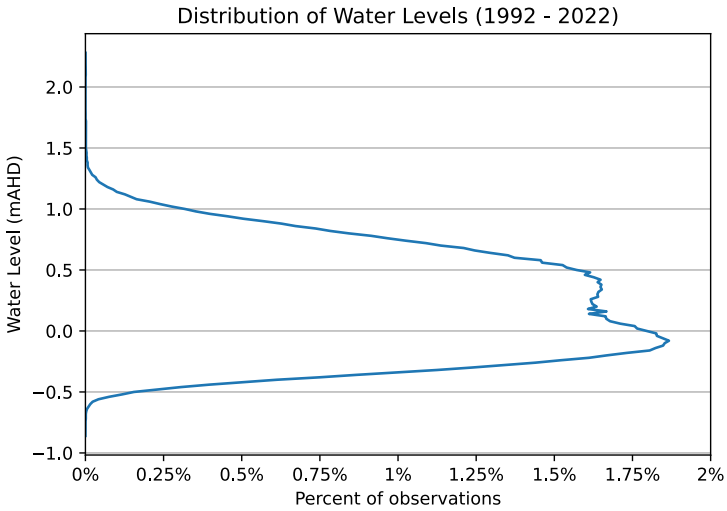
Manly Hydraulics Laboratory

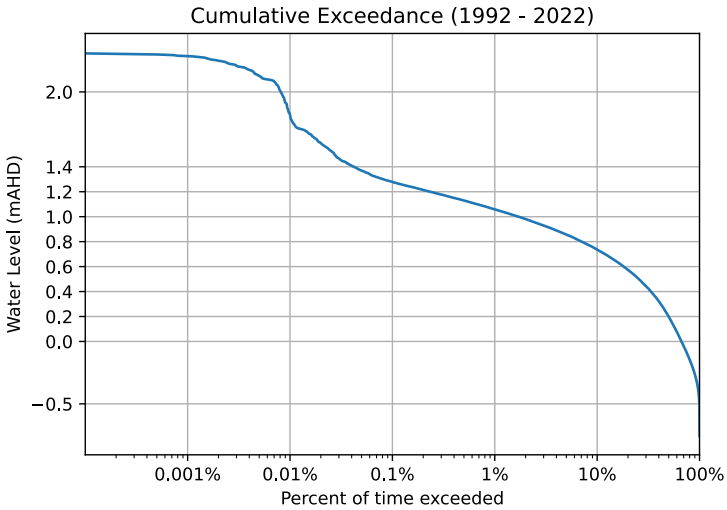
MHL2971
Figure
A203

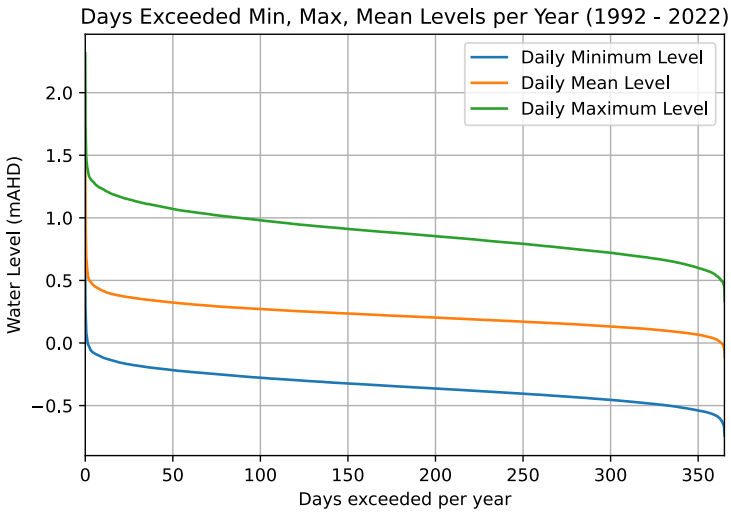
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00003	28	28	0.0028261
2.2	0.00003	26	54	0.0054503
2.1	0.00002	21	75	0.0075698
2.0	0.00001	12	87	0.008781
1.9	0.00001	7	94	0.0094875
1.8	0.00003	30	124	0.012515
1.7	0.00006	59	183	0.01847
1.6	0.00008	80	263	0.026545
1.5	0.00015	150	413	0.041684
1.4	0.00039	387	800	0.080744
1.3	0.00152	1510	2310	0.23315
1.2	0.00443	4391	6701	0.67634
1.1	0.01028	10185	16886	1.7043
1.0	0.02030	20114	37000	3.7344
0.9	0.03387	33555	70555	7.1212
0.8	0.04837	47924	118479	11.958
0.7	0.06238	61809	180288	18.197
0.6	0.07356	72878	253166	25.552
0.5	0.08057	79832	332998	33.61
0.4	0.08229	81536	414534	41.839
0.3	0.08135	80597	495131	49.974
0.2	0.08185	81091	576222	58.158
0.1	0.08577	84976	661198	66.735
0.0	0.09163	90788	751986	75.898
-0.1	0.09061	89773	841759	84.959
-0.2	0.07576	75060	916819	92.535
-0.3	0.04969	49232	966051	97.504
-0.4	0.02045	20265	986316	99.549
-0.5	0.00413	4091	990407	99.962
-0.6	0.00034	339	990746	99.997
-0.7	0.00003	28	990774	99.999

Station Information	
Station no.	213410D
Station name	Picnic Point Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	315269
Northing	6237999

Summary Statistics	
Time interval (mins)	15
Start of record	03/03/1992
Highest water level recorded (m)	2.302
Date recorded	10/02/2020
Lowest water level recorded (m)	-0.880
Date recorded	04/12/1994







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213410D

NSW GOVERNMENT

Picnic Point Downstream (213410D) FREQUENCY DISTRIBUTION ANALYSIS

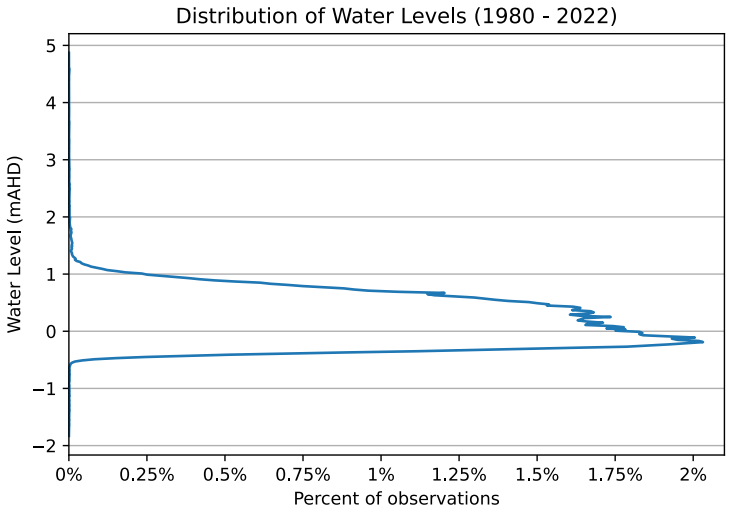
Manly Hydraulics Laboratory

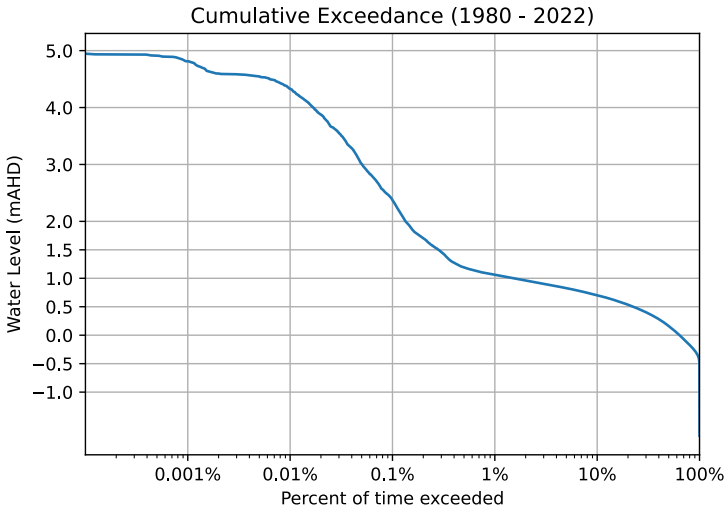
MHL2971
Figure
A204

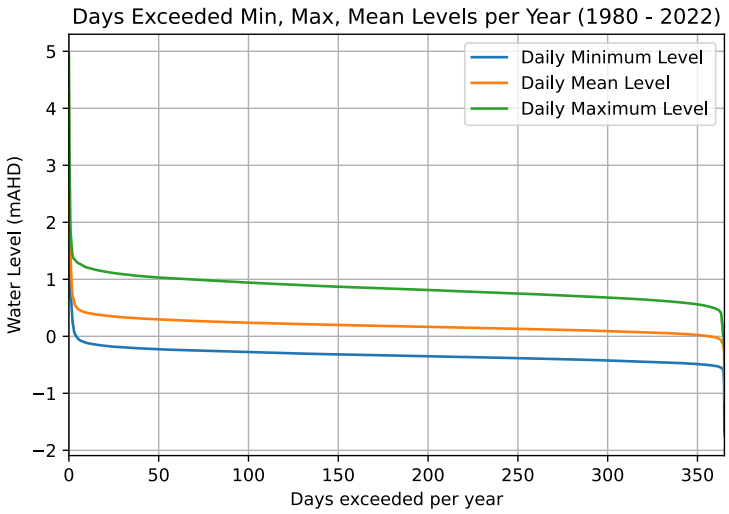
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.0	0.00001	17	17	0.0010832
4.8	0.00001	13	30	0.0019115
4.6	0.00007	107	137	0.008729
4.4	0.00004	57	194	0.012361
4.2	0.00004	70	264	0.016821
4.0	0.00005	80	344	0.021918
3.8	0.00006	101	445	0.028353
3.6	0.00007	106	551	0.035107
3.4	0.00008	127	678	0.043199
3.2	0.00007	115	793	0.050526
3.0	0.00013	203	996	0.06346
2.8	0.00013	208	1204	0.076713
2.6	0.00021	336	1540	0.098122
2.4	0.00016	249	1789	0.11399
2.2	0.00020	316	2105	0.13412
2.0	0.00033	517	2622	0.16706
1.8	0.00067	1059	3681	0.23454
1.6	0.00093	1465	5146	0.32788
1.4	0.00154	2412	7558	0.48156
1.2	0.01015	15934	23492	1.4968
1.0	0.04397	69005	92497	5.8935
0.8	0.09854	154652	247149	15.747
0.6	0.14504	227644	474793	30.252
0.4	0.16537	259543	734336	46.788
0.2	0.17034	267353	1001689	63.823
0.0	0.19072	299330	1301019	82.895
-0.2	0.15256	239438	1540457	98.151
-0.4	0.01768	27752	1568209	99.919
-0.6	0.00022	340	1568549	99.941
-0.8	0.00014	219	1568768	99.955
-1.0	0.00014	214	1568982	99.968
-1.2	0.00015	233	1569215	99.983
-1.4	0.00011	177	1569392	99.994
-1.6	0.00006	90	1569482	100

Station Information	
Station no.	213405
Station name	Milperra
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	313222
Northing	6244042

Summary Statistics	
Time interval (mins)	15
Start of record	19/10/1980
Highest water level recorded (m)	4.880
Date recorded	30/04/1988
Lowest water level recorded (m)	-1.855
Date recorded	29/01/1982







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213405

NSW GOVERNMENT

Milperra (213405)
FREQUENCY DISTRIBUTION ANALYSIS

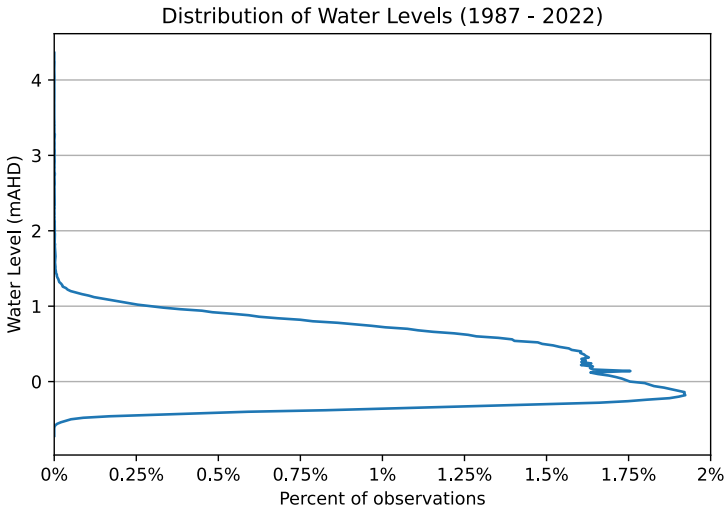
Manly Hydraulics Laboratory

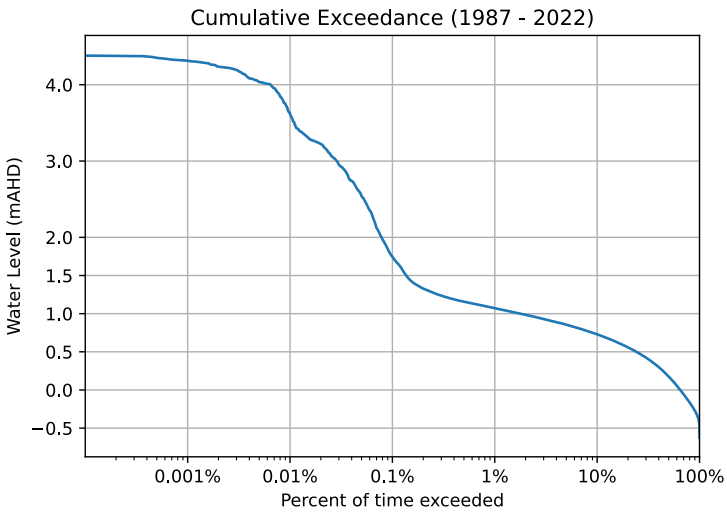
MHL2971
Figure
A205

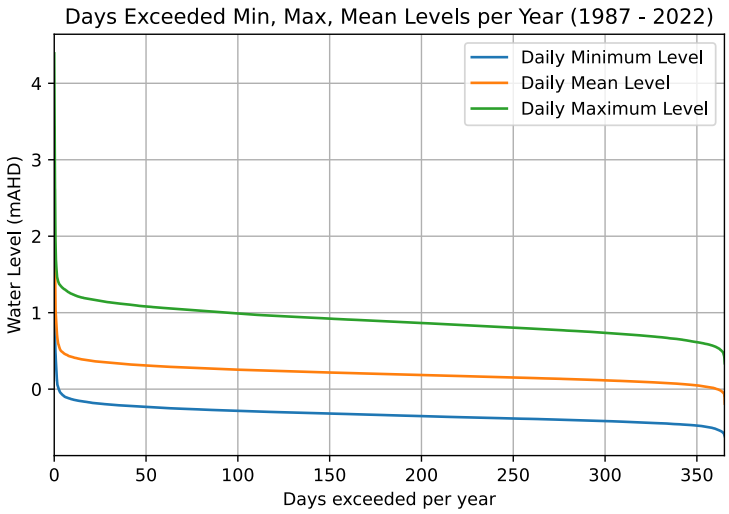
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.4	0.00003	33	33	0.0029207
4.2	0.00004	41	74	0.0065496
4.0	0.00002	23	97	0.0085852
3.8	0.00002	18	115	0.010178
3.6	0.00002	24	139	0.012303
3.4	0.00009	100	239	0.021153
3.2	0.00008	86	325	0.028765
3.0	0.00008	94	419	0.037085
2.8	0.00011	119	538	0.047617
2.6	0.00010	114	652	0.057707
2.4	0.00010	110	762	0.067443
2.2	0.00011	122	884	0.078241
2.0	0.00016	181	1065	0.094261
1.8	0.00028	316	1381	0.12223
1.6	0.00040	453	1834	0.16232
1.4	0.00206	2327	4161	0.36828
1.2	0.01423	16082	20243	1.7917
1.0	0.05131	57968	78211	6.9223
0.8	0.10359	117045	195256	17.282
0.6	0.14601	164972	360228	31.883
0.4	0.16144	182399	542627	48.027
0.2	0.16833	190191	732818	64.86
0.0	0.18593	210068	942886	83.453
-0.2	0.14843	167700	1110586	98.295
-0.4	0.01704	19252	1129838	99.999
-0.6	0.00001	9	1129847	100

Station Information	
Station no.	213402
Station name	Lansdowne Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	312039
Northing	6248143

Summary Statistics	
Time interval (mins)	15
Start of record	20/11/1987
Highest water level recorded (m)	4.366
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.740
Date recorded	23/11/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213402

NSW GOVERNMENT

Lansdowne Bridge (213402)
FREQUENCY DISTRIBUTION ANALYSIS

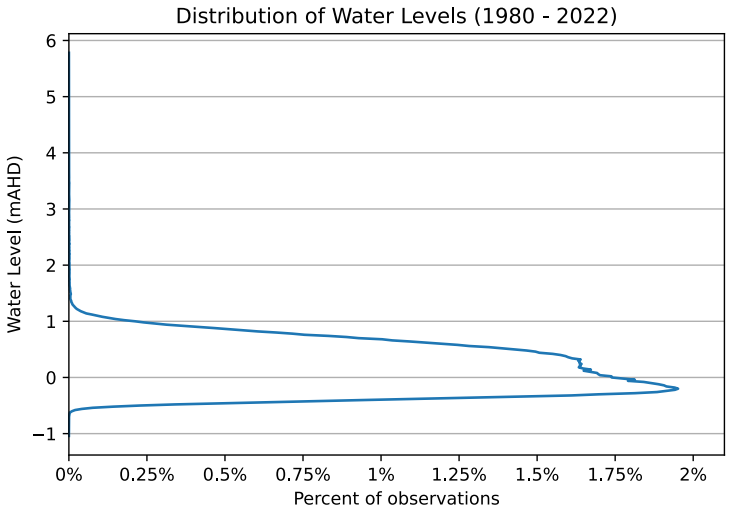
Manly Hydraulics Laboratory

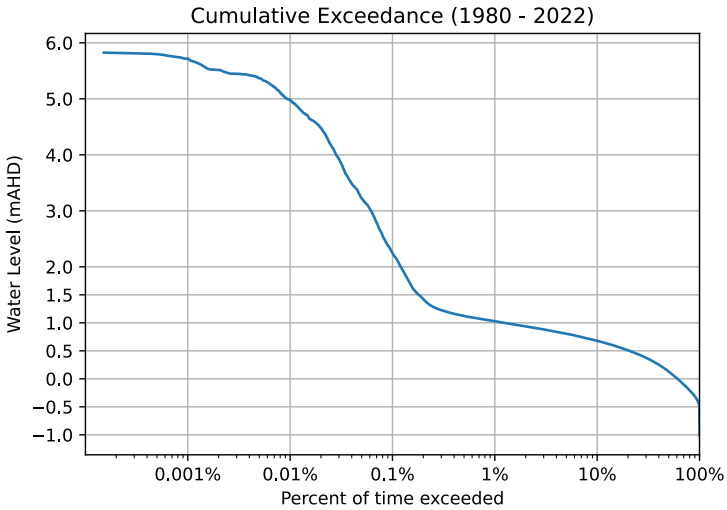
MHL2971
Figure
A206

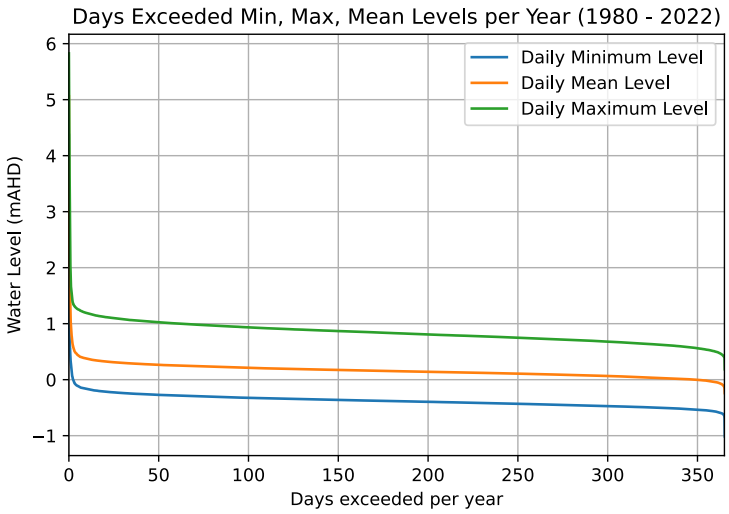
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.8	0.00001	13	13	0.00093256
5.6	0.00003	43	56	0.0040172
5.4	0.00003	36	92	0.0065997
5.2	0.00002	31	123	0.0088235
5.0	0.00003	47	170	0.012195
4.8	0.00004	61	231	0.016571
4.6	0.00004	61	292	0.020947
4.4	0.00003	44	336	0.024103
4.2	0.00003	48	384	0.027546
4.0	0.00005	63	447	0.032066
3.8	0.00004	59	506	0.036298
3.6	0.00007	100	606	0.043472
3.4	0.00007	101	707	0.050717
3.2	0.00011	148	855	0.061334
3.0	0.00007	103	958	0.068723
2.8	0.00009	128	1086	0.077905
2.6	0.00011	148	1234	0.088522
2.4	0.00014	201	1435	0.10294
2.2	0.00017	241	1676	0.12023
2.0	0.00018	257	1933	0.13866
1.8	0.00021	297	2230	0.15997
1.6	0.00045	627	2857	0.20495
1.4	0.00127	1766	4623	0.33163
1.2	0.00899	12537	17160	1.231
1.0	0.03950	55069	72229	5.1814
0.8	0.09067	126398	198627	14.249
0.6	0.13887	193580	392207	28.135
0.4	0.16200	225824	618031	44.335
0.2	0.16738	233328	851359	61.073
0.0	0.18471	257493	1108852	79.544
-0.2	0.16721	233096	1341948	96.265
-0.4	0.03714	51775	1393723	99.98
-0.6	0.00020	277	1394000	99.999
-0.8	0.00000	0	1394000	99.999
-1.0	0.00000	1	1394001	99.999

Station Information	
Station no.	213401
Station name	Lansvale
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	311150
Northing	6247099

Summary Statistics	
Time interval (mins)	15
Start of record	03/08/1980
Highest water level recorded (m)	5.790
Date recorded	30/04/1988
Lowest water level recorded (m)	-1.057
Date recorded	15/06/1981







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213401

NSW GOVERNMENT

Lansvale (213401)
FREQUENCY DISTRIBUTION ANALYSIS

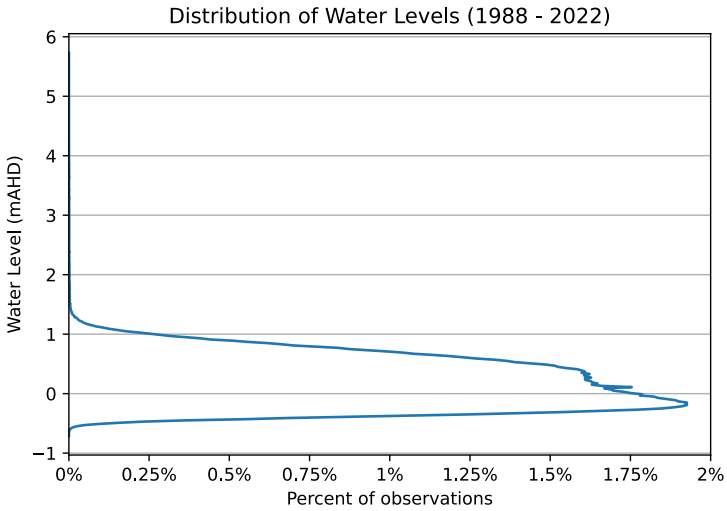
Manly Hydraulics Laboratory

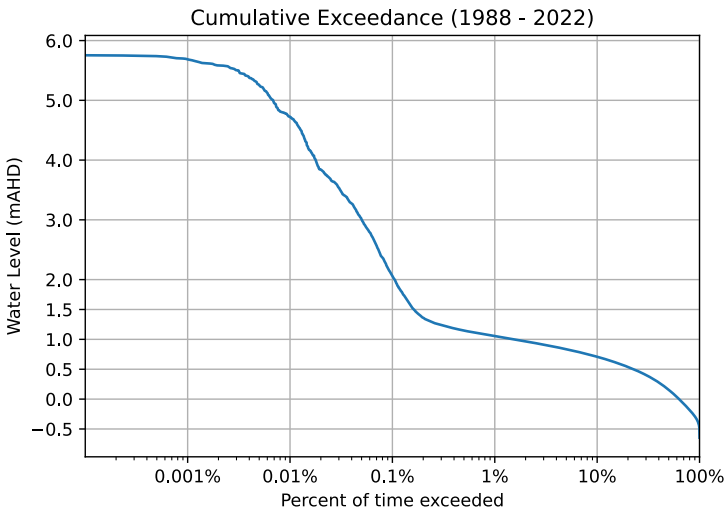
MHL2971
Figure
A207

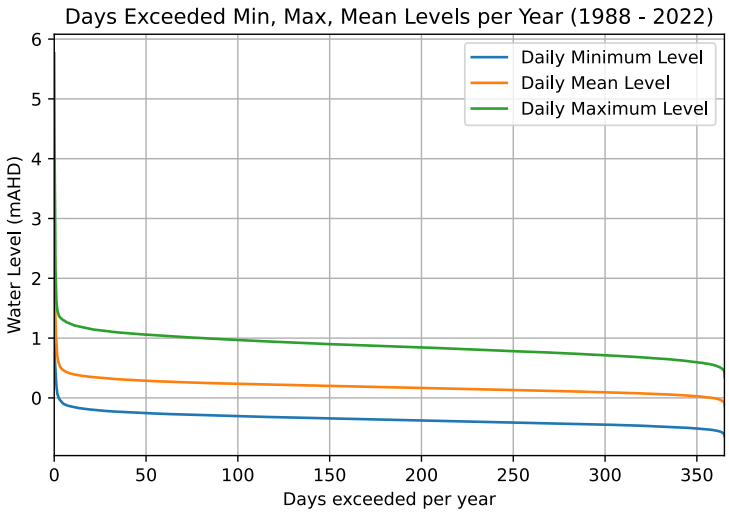
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
5.8	0.00002	21	21	0.0018341
5.6	0.00002	24	45	0.0039302
5.4	0.00002	18	63	0.0055023
5.2	0.00001	16	79	0.0068997
5.0	0.00001	17	96	0.0083844
4.8	0.00003	38	134	0.011703
4.6	0.00002	22	156	0.013625
4.4	0.00001	16	172	0.015022
4.2	0.00003	32	204	0.017817
4.0	0.00004	41	245	0.021398
3.8	0.00007	79	324	0.028297
3.6	0.00006	74	398	0.03476
3.4	0.00008	93	491	0.042883
3.2	0.00007	84	575	0.050219
3.0	0.00009	105	680	0.05939
2.8	0.00009	106	786	0.068647
2.6	0.00008	96	882	0.077032
2.4	0.00012	140	1022	0.089259
2.2	0.00016	183	1205	0.10524
2.0	0.00017	198	1403	0.12253
1.8	0.00024	280	1683	0.14699
1.6	0.00040	454	2137	0.18664
1.4	0.00179	2049	4186	0.36559
1.2	0.01173	13433	17619	1.5388
1.0	0.04631	53029	70648	6.1702
0.8	0.09790	112098	182746	15.961
0.6	0.14294	163660	346406	30.254
0.4	0.16082	184134	530540	46.336
0.2	0.16815	192524	723064	63.151
0.0	0.18549	212384	935448	81.7
-0.2	0.15730	180107	1115555	97.43
-0.4	0.02565	29368	1144923	99.995
-0.6	0.00005	60	1144983	100

Station Information	
Station no.	213407
Station name	Irelands Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	309832
Northing	6246486

Summary Statistics	
Time interval (mins)	15
Start of record	31/03/1988
Highest water level recorded (m)	5.753
Date recorded	10/02/2020
Lowest water level recorded (m)	-0.730
Date recorded	10/12/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213407

NSW GOVERNMENT

Irelands Bridge (213407)
FREQUENCY DISTRIBUTION ANALYSIS

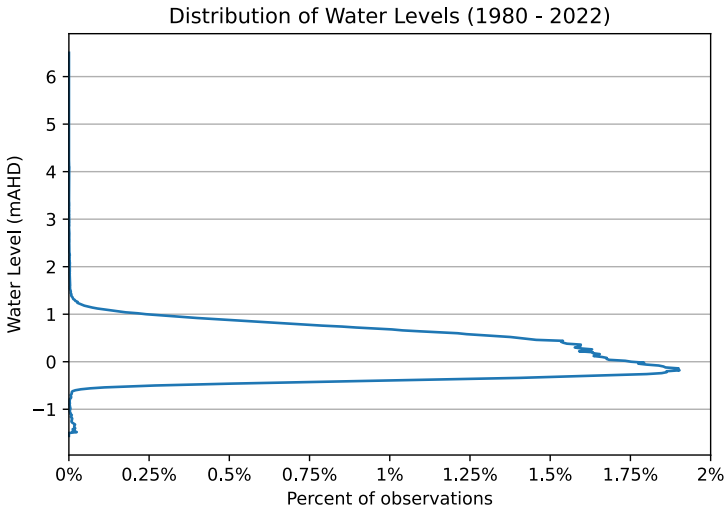
Manly Hydraulics Laboratory

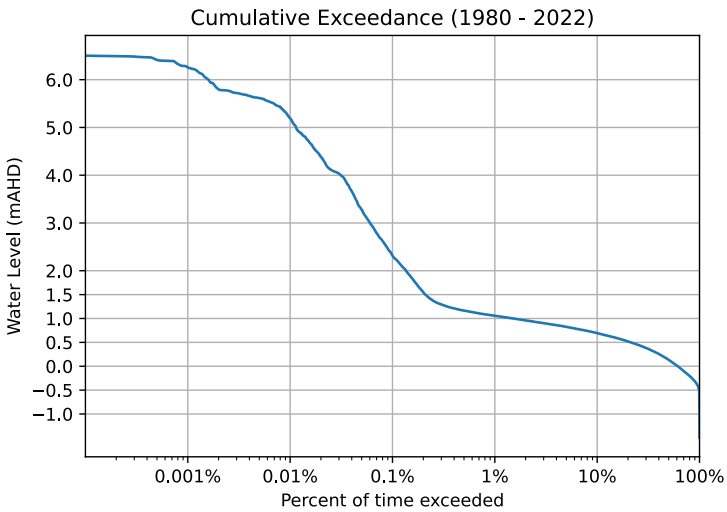
MHL2971
Figure
A208

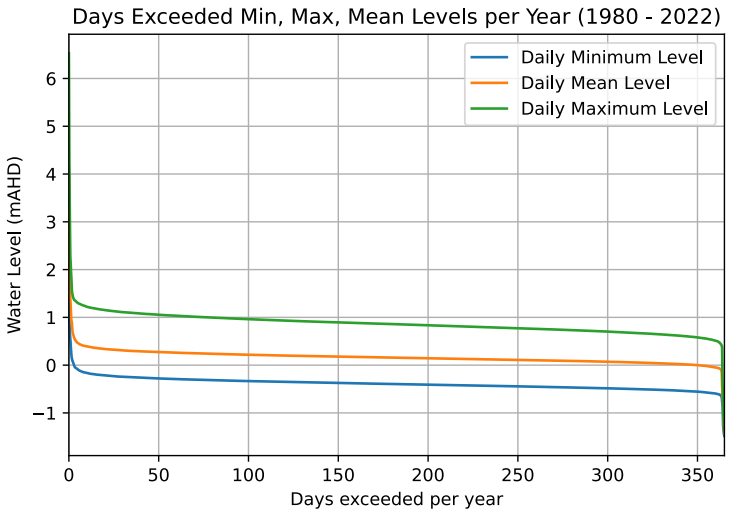
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.6	0.00001	12	12	0.00087587
6.3	0.00001	10	22	0.0016058
6.0	0.00002	25	47	0.0034305
5.7	0.00005	67	114	0.0083208
5.4	0.00002	31	145	0.010583
5.1	0.00004	49	194	0.01416
4.8	0.00004	55	249	0.018174
4.5	0.00005	63	312	0.022773
4.2	0.00012	158	470	0.034305
3.9	0.00007	99	569	0.041531
3.6	0.00008	106	675	0.049268
3.3	0.00011	150	825	0.060216
3.0	0.00015	199	1024	0.074741
2.7	0.00020	270	1294	0.094448
2.4	0.00029	392	1686	0.12306
2.1	0.00038	517	2203	0.1608
1.8	0.00048	652	2855	0.20838
1.5	0.00209	2869	5724	0.41779
1.2	0.02676	36669	42393	3.0942
0.9	0.11892	162934	205327	14.987
0.6	0.21679	297011	502338	36.665
0.3	0.24647	337679	840017	61.312
0.0	0.27448	376061	1216078	88.761
-0.3	0.10852	148675	1364753	99.612
-0.6	0.00101	1378	1366131	99.713
-0.9	0.00070	955	1367086	99.783
-1.2	0.00217	2977	1370063	100

Station Information	
Station no.	213404
Station name	Scrivener Street
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	309137
Northing	6244541

Summary Statistics	
Time interval (mins)	15
Start of record	26/10/1980
Highest water level recorded (m)	6.519
Date recorded	10/02/2020
Lowest water level recorded (m)	-1.580
Date recorded	03/10/1986







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213404

NSW GOVERNMENT

Scrivener Street (213404)
FREQUENCY DISTRIBUTION ANALYSIS

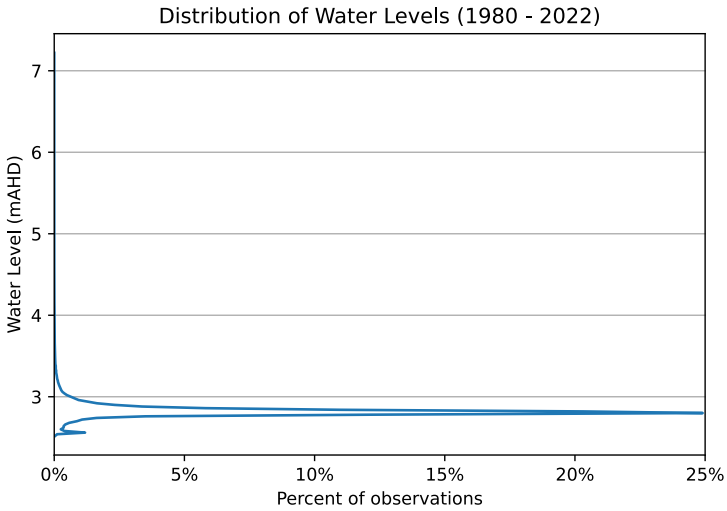
Manly Hydraulics Laboratory

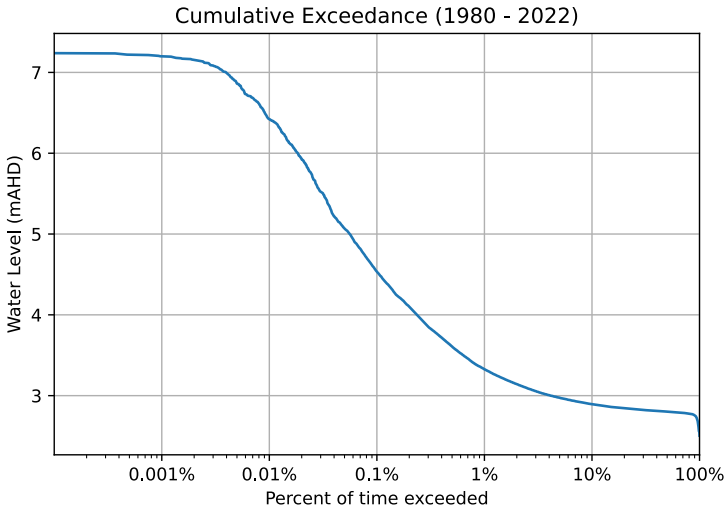
MHL2971
Figure
A209

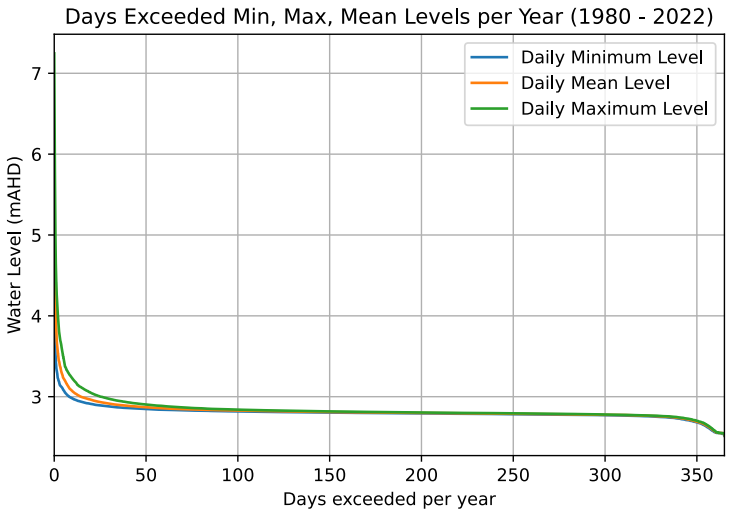
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
7.3	0.00003	40	40	0.0028465
7.1	0.00002	27	67	0.0047679
6.9	0.00002	28	95	0.0067604
6.7	0.00002	33	128	0.0091088
6.5	0.00004	50	178	0.012667
6.3	0.00004	50	228	0.016225
6.1	0.00005	66	294	0.020922
5.9	0.00004	61	355	0.025263
5.7	0.00006	91	446	0.031738
5.5	0.00006	79	525	0.03736
5.3	0.00010	147	672	0.047821
5.1	0.00014	202	874	0.062196
4.9	0.00019	262	1136	0.08084
4.7	0.00025	353	1489	0.10596
4.5	0.00035	496	1985	0.14126
4.3	0.00060	839	2824	0.20096
4.1	0.00076	1073	3897	0.27732
3.9	0.00136	1916	5813	0.41367
3.7	0.00220	3092	8905	0.6337
3.5	0.00459	6446	15351	1.0924
3.3	0.01311	18422	33773	2.4034
3.1	0.06973	97989	131762	9.3765
2.9	0.86058	1209318	1341080	95.434
2.7	0.04566	64162	1405242	100

Station Information	
Station no.	213400
Station name	Liverpool Weir
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	308514
Northing	6244022

Summary Statistics	
Time interval (mins)	15
Start of record	30/07/1980
Highest water level recorded (m)	7.232
Date recorded	30/04/1988
Lowest water level recorded (m)	2.502
Date recorded	28/11/2006







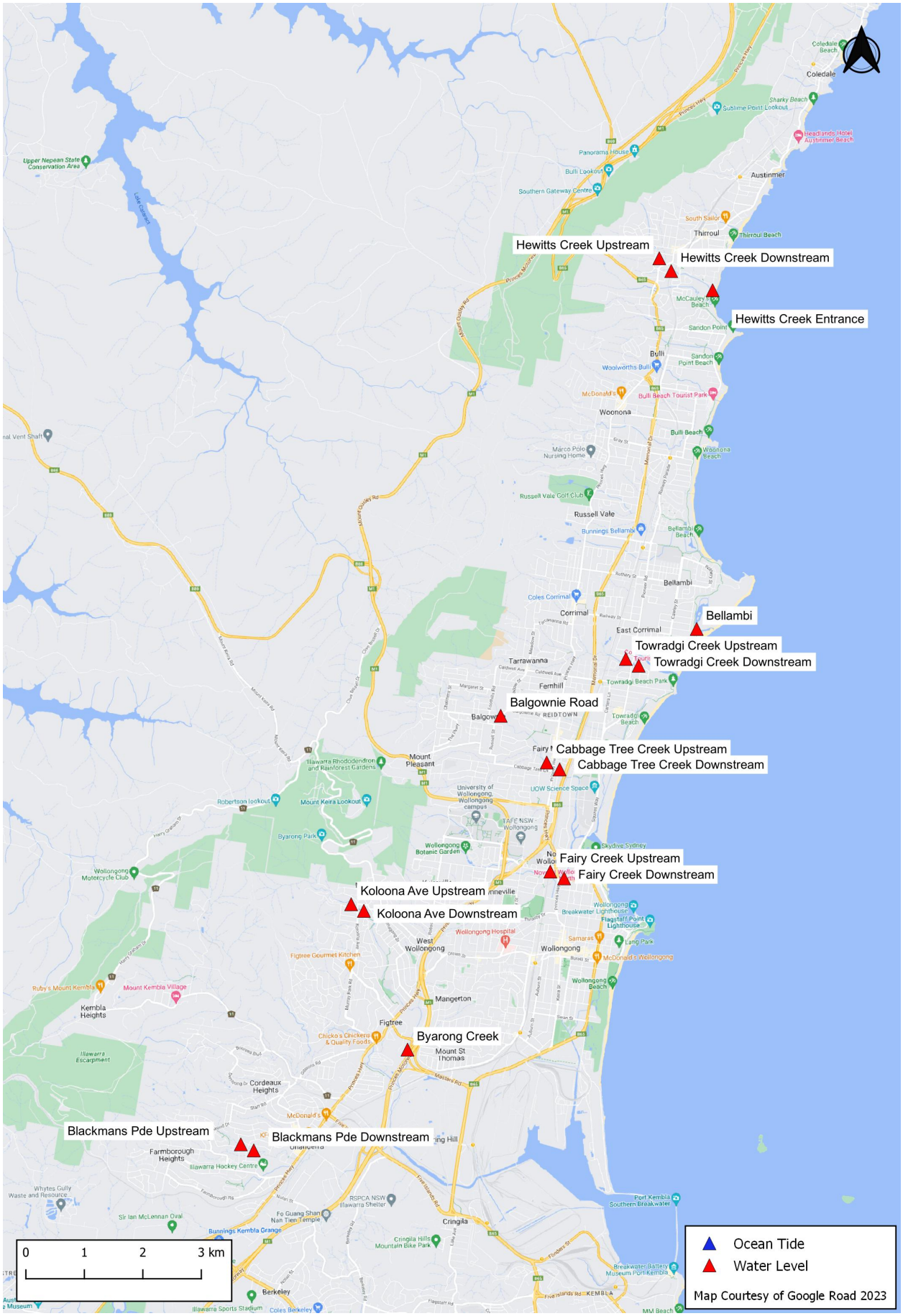
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-213400

NSW GOVERNMENT

Liverpool Weir (213400)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A210



NSW GOVERNMENT

STATION LOCATIONS
WOLLONGONG REGION

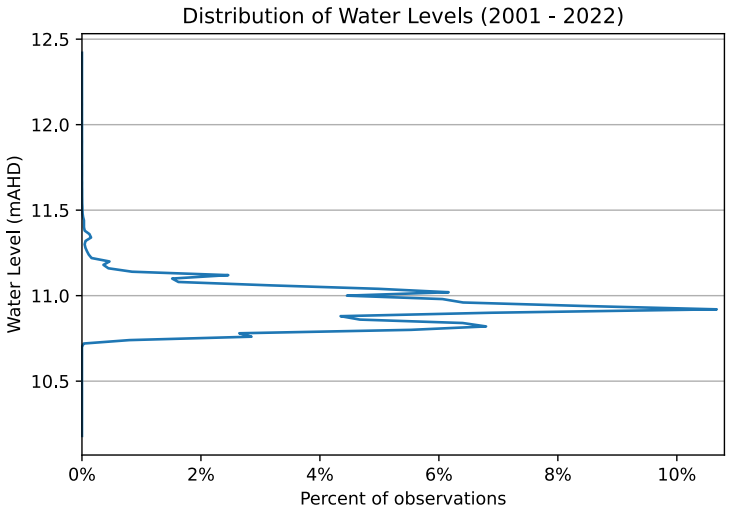
Manly Hydraulics Laboratory

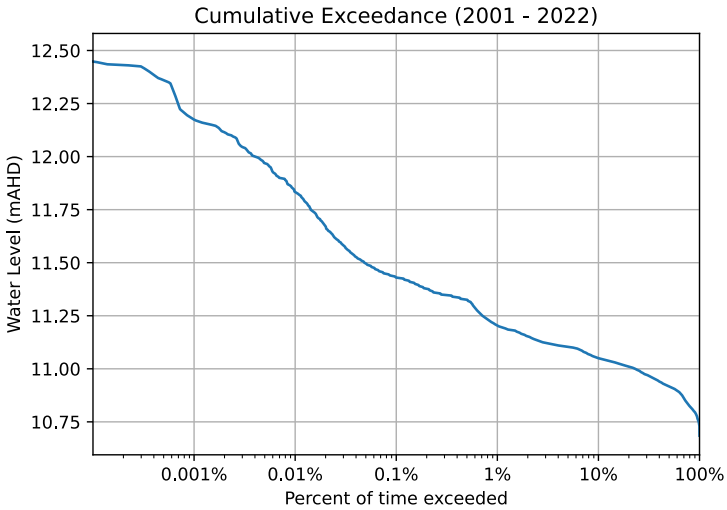
MHL2971
Figure
A211

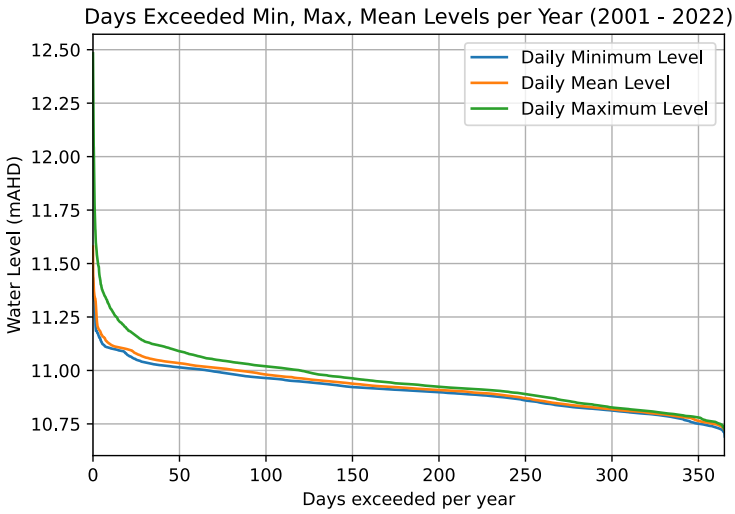
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.5	0.00000	3	3	0.00043588
12.4	0.00000	2	5	0.00072646
12.3	0.00000	1	6	0.00087175
12.2	0.00002	11	17	0.00247
12.1	0.00002	11	28	0.0040682
12.0	0.00003	20	48	0.006974
11.9	0.00005	35	83	0.012059
11.8	0.00006	40	123	0.017871
11.7	0.00009	64	187	0.02717
11.6	0.00021	146	333	0.048382
11.5	0.00105	724	1057	0.15357
11.4	0.00418	2879	3936	0.57187
11.3	0.00463	3187	7123	1.0349
11.2	0.04569	31446	38569	5.6038
11.1	0.17471	120246	158815	23.075
11.0	0.35986	247681	406496	59.061
10.9	0.29087	200199	606695	88.148
10.8	0.11852	81571	688266	100
10.7	0.00000	2	688268	100

Station Information	
Station no.	214410
Station name	Hewitts Creek Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	308179
Northing	6200428

Summary Statistics	
Time interval (mins)	15
Start of record	24/10/2001
Highest water level recorded (m)	12.426
Date recorded	07/04/2022
Lowest water level recorded (m)	10.160
Date recorded	04/03/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214410

NSW GOVERNMENT

Hewitts Creek Upstream (214410)
FREQUENCY DISTRIBUTION ANALYSIS

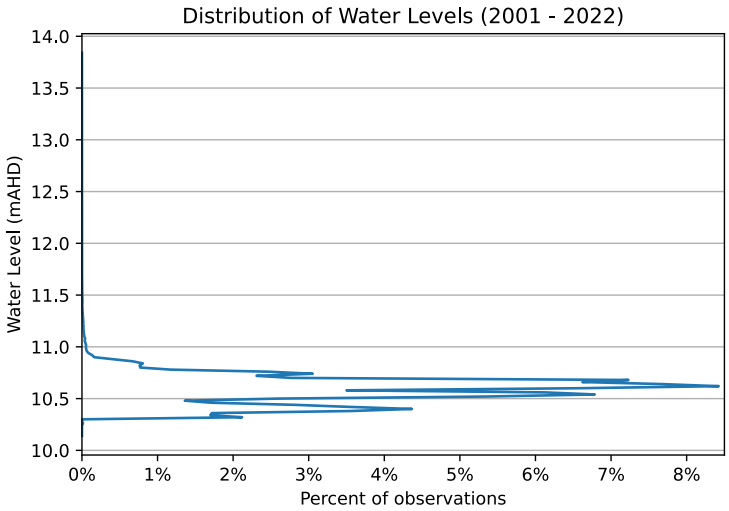
Manly Hydraulics Laboratory

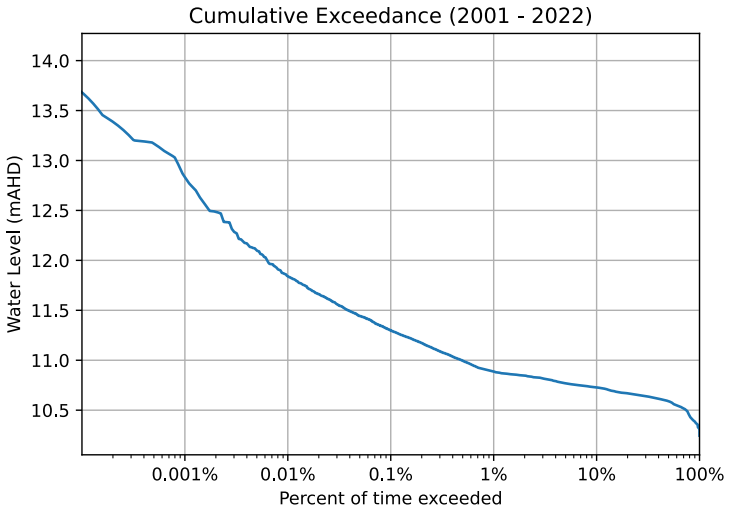
MHL2971
Figure
A212

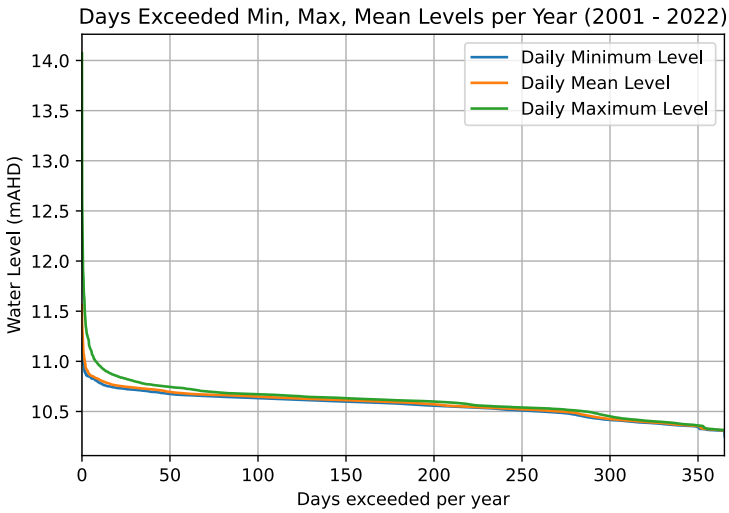
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
14.3	0.00000	0	0	0
14.1	0.00000	1	1	0.00015932
13.9	0.00000	0	1	0.00015932
13.7	0.00000	0	1	0.00015932
13.5	0.00000	1	2	0.00031864
13.3	0.00000	2	4	0.00063728
13.1	0.00000	2	6	0.00095592
12.9	0.00000	3	9	0.0014339
12.7	0.00000	2	11	0.0017525
12.5	0.00001	8	19	0.0030271
12.3	0.00002	13	32	0.0050983
12.1	0.00004	22	54	0.0086033
11.9	0.00009	54	108	0.017207
11.7	0.00022	137	245	0.039033
11.5	0.00061	386	631	0.10053
11.3	0.00186	1167	1798	0.28646
11.1	0.00598	3752	5550	0.88423
10.9	0.12585	78993	84543	13.469
10.7	0.61045	383160	467703	74.515
10.5	0.25470	159866	627569	99.985
10.3	0.00015	97	627666	100

Station Information	
Station no.	214411
Station name	Hewitts Creek Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	308183
Northing	6200410

Summary Statistics	
Time interval (mins)	15
Start of record	24/10/2001
Highest water level recorded (m)	13.841
Date recorded	07/12/2007
Lowest water level recorded (m)	10.120
Date recorded	13/06/2011







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214411

NSW GOVERNMENT

Hewitts Creek Downstream (214411)
FREQUENCY DISTRIBUTION ANALYSIS

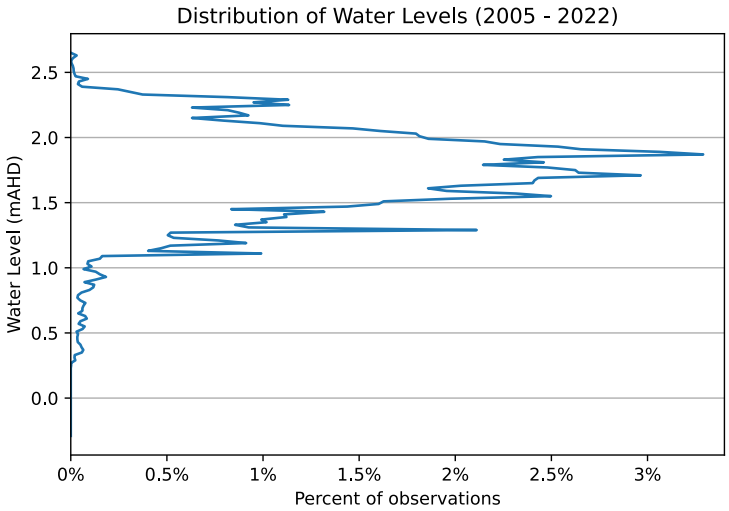
Manly Hydraulics Laboratory

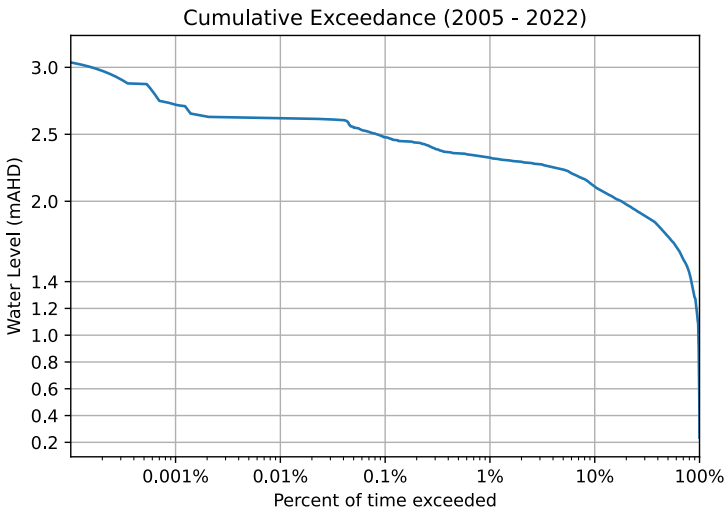
MHL2971
Figure
A213

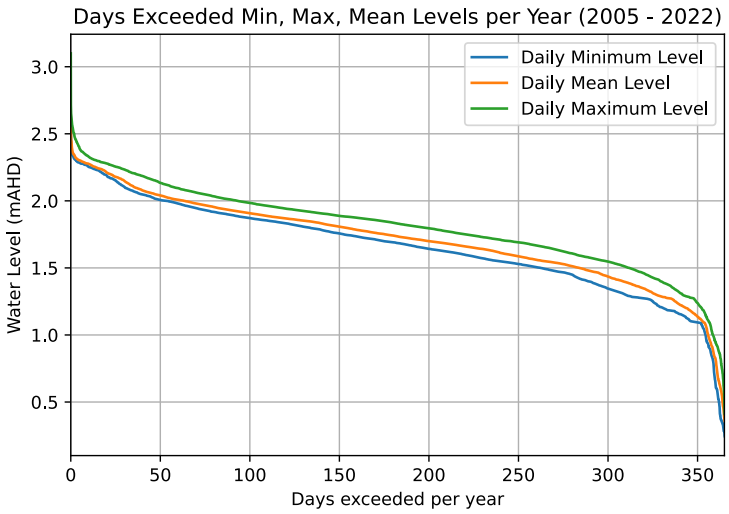
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.1	0.00000	1	1	0.00017491
3.0	0.00000	1	2	0.00034983
2.9	0.00000	2	4	0.00069966
2.8	0.00001	4	8	0.0013993
2.7	0.00041	237	245	0.042854
2.6	0.00040	231	476	0.083259
2.5	0.00200	1144	1620	0.28336
2.4	0.01384	7912	9532	1.6673
2.3	0.04667	26682	36214	6.3344
2.2	0.04024	23008	59222	10.359
2.1	0.07618	43551	102773	17.977
2.0	0.11106	63493	166266	29.082
1.9	0.13384	76516	242782	42.466
1.8	0.12481	71353	314135	54.947
1.7	0.11786	67384	381519	66.733
1.6	0.10606	60634	442153	77.339
1.5	0.06503	37177	479330	83.842
1.4	0.04931	28190	507520	88.773
1.3	0.04592	26250	533770	93.364
1.2	0.02929	16747	550517	96.294
1.1	0.01244	7113	557630	97.538
1.0	0.00651	3723	561353	98.189
0.9	0.00511	2924	564277	98.7
0.8	0.00261	1490	565767	98.961
0.7	0.00313	1788	567555	99.274
0.6	0.00274	1567	569122	99.548
0.5	0.00178	1015	570137	99.725
0.4	0.00239	1369	571506	99.965
0.3	0.00035	201	571707	100

Station Information	
Station no.	214408
Station name	Hewitts Creek Entrance
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	308991
Northing	6199982

Summary Statistics	
Time interval (mins)	15
Start of record	19/05/2005
Highest water level recorded (m)	2.671
Date recorded	27/07/2020
Lowest water level recorded (m)	-0.310
Date recorded	01/07/2005







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214408

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Hewitts Creek Entrance (214408)
FREQUENCY DISTRIBUTION ANALYSIS

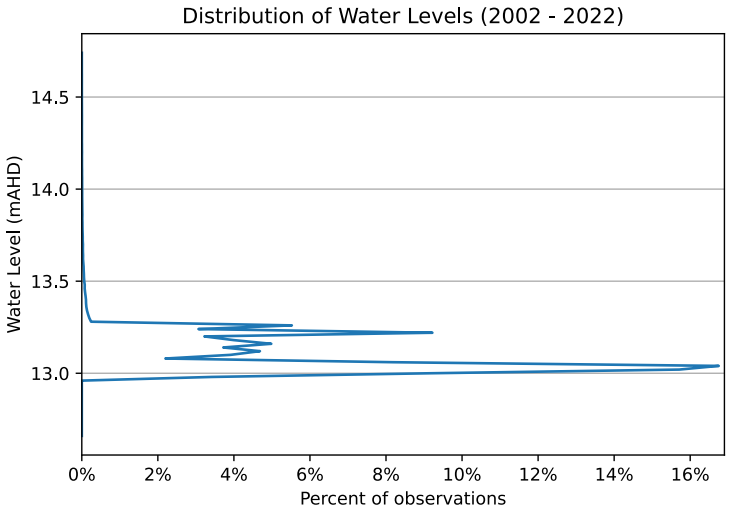
Manly Hydraulics Laboratory

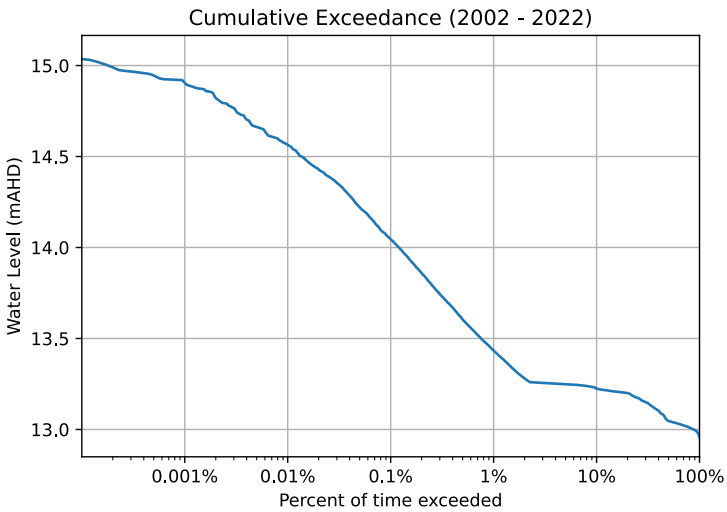
MHL2971
Figure
A214

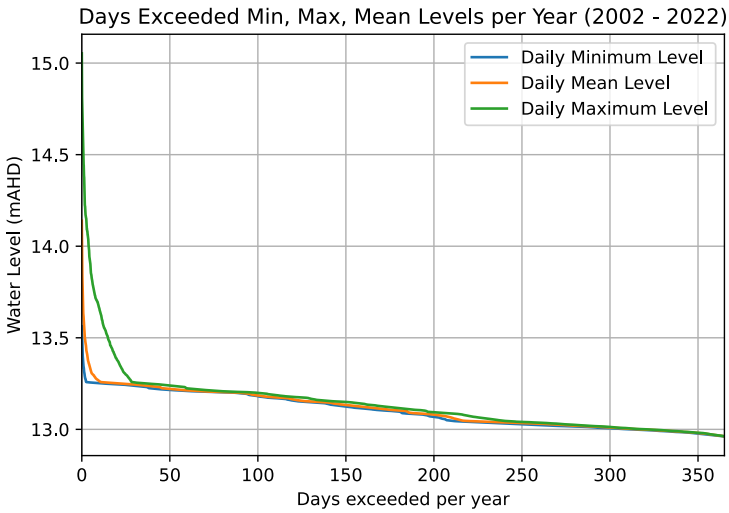
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
15.1	0.00000	2	2	0.00023313
15.0	0.00001	7	9	0.0010491
14.9	0.00001	11	20	0.0023313
14.8	0.00002	15	35	0.0040797
14.7	0.00004	33	68	0.0079264
14.6	0.00006	49	117	0.013638
14.5	0.00010	83	200	0.023313
14.4	0.00014	123	323	0.03765
14.3	0.00017	144	467	0.054435
14.2	0.00024	209	676	0.078797
14.1	0.00041	353	1029	0.11994
14.0	0.00052	450	1479	0.1724
13.9	0.00074	633	2112	0.24618
13.8	0.00108	923	3035	0.35377
13.7	0.00154	1321	4356	0.50775
13.6	0.00248	2124	6480	0.75534
13.5	0.00401	3443	9923	1.1567
13.4	0.00643	5512	15435	1.7992
13.3	0.18254	156600	172035	20.053
13.2	0.20609	176807	348842	40.662
13.1	0.46758	401132	749974	87.42
13.0	0.12580	107923	857897	100

Station Information	
Station no.	214409
Station name	Balgownie Road
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	305367
Northing	6192700

Summary Statistics	
Time interval (mins)	15
Start of record	18/11/2002
Highest water level recorded (m)	14.760
Date recorded	05/02/2008
Lowest water level recorded (m)	12.640
Date recorded	05/09/2004







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214409

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Balgownie Road (214409)
FREQUENCY DISTRIBUTION ANALYSIS

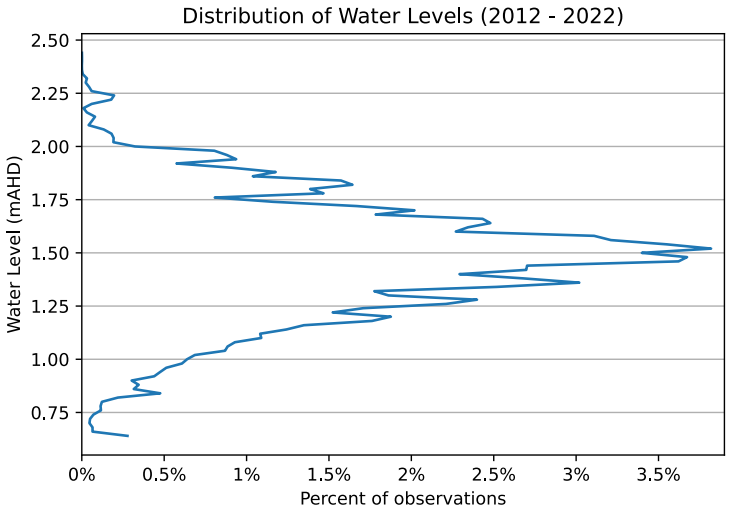
Manly Hydraulics Laboratory

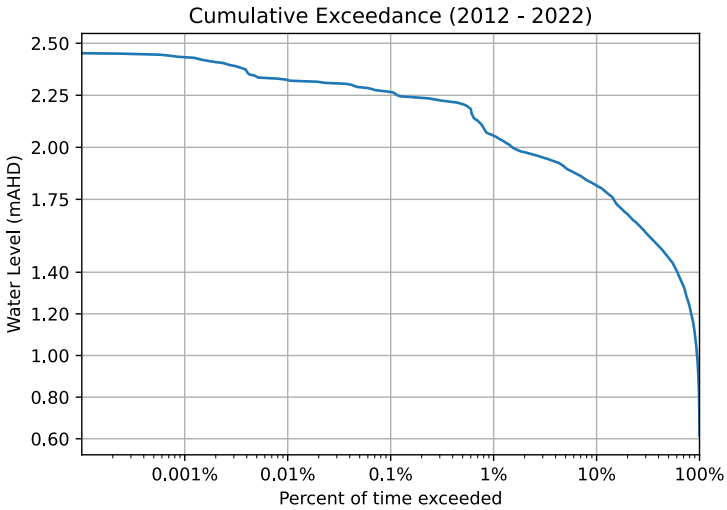
MHL2971
Figure
A215

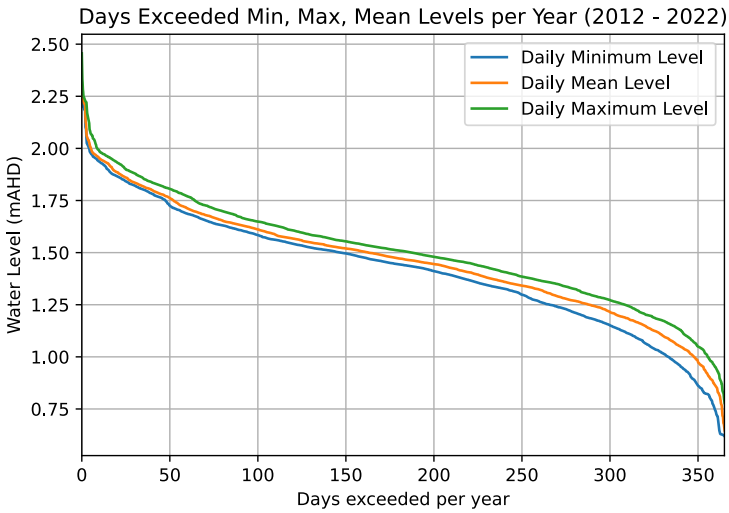
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00003	9	9	0.0026884
2.4	0.00039	132	141	0.042118
2.3	0.00502	1680	1821	0.54395
2.2	0.00243	812	2633	0.7865
2.1	0.00740	2477	5110	1.5264
2.0	0.03519	11780	16890	5.0452
1.9	0.06341	21227	38117	11.386
1.8	0.06487	21718	59835	17.873
1.7	0.11058	37019	96854	28.931
1.6	0.15961	53432	150286	44.892
1.5	0.16094	53877	204163	60.985
1.4	0.12284	41125	245288	73.27
1.3	0.09701	32476	277764	82.971
1.2	0.07309	24467	302231	90.279
1.1	0.04458	14924	317155	94.737
1.0	0.02674	8951	326106	97.411
0.9	0.01659	5553	331659	99.07
0.8	0.00473	1583	333242	99.542
0.7	0.00458	1532	334774	100

Station Information	
Station no.	214488
Station name	Bellambi Lagoon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	308719
Northing	6194185

Summary Statistics	
Time interval (mins)	15
Start of record	26/10/2012
Highest water level recorded (m)	2.463
Date recorded	22/04/2015
Lowest water level recorded (m)	0.621
Date recorded	10/05/2022







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214488

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Bellambi Lagoon (214488)
FREQUENCY DISTRIBUTION ANALYSIS

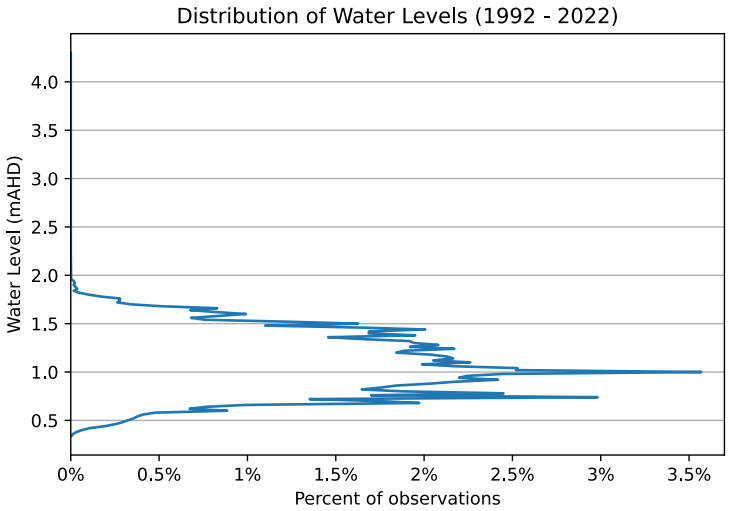
Manly Hydraulics Laboratory

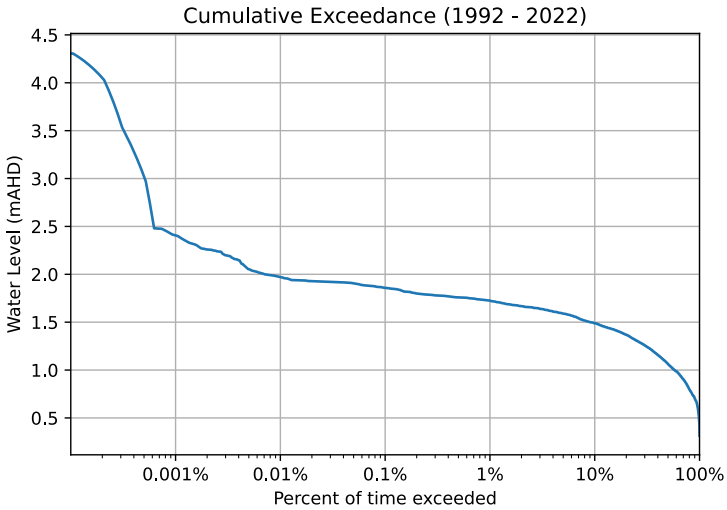
MHL2971
Figure
A216

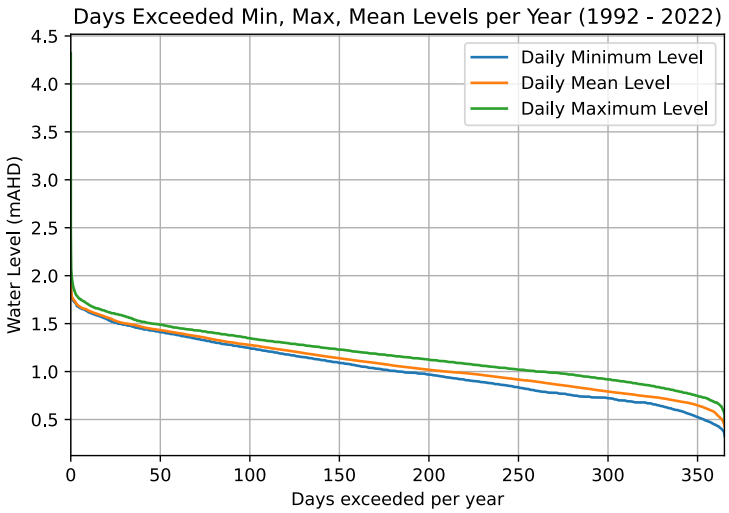
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00000	0	0	0
4.1	0.00000	1	1	0.00010411
3.9	0.00000	0	1	0.00010411
3.7	0.00000	1	2	0.00020821
3.5	0.00000	0	2	0.00020821
3.3	0.00000	1	3	0.00031232
3.1	0.00000	1	4	0.00041643
2.9	0.00000	0	4	0.00041643
2.7	0.00000	0	4	0.00041643
2.5	0.00001	10	14	0.0014575
2.3	0.00003	27	41	0.0042684
2.1	0.00049	474	515	0.053615
1.9	0.01237	11886	12401	1.291
1.7	0.07683	73798	86199	8.9739
1.5	0.16718	160589	246788	25.692
1.3	0.20228	194296	441084	45.92
1.1	0.24337	233772	674856	70.257
0.9	0.19824	190418	865274	90.081
0.7	0.08645	83035	948309	98.726
0.5	0.01274	12239	960548	100

Station Information	
Station no.	214477
Station name	Towradgi Creek Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	307607
Northing	6193622

Summary Statistics	
Time interval (mins)	15
Start of record	10/04/1992
Highest water level recorded (m)	4.320
Date recorded	17/08/1998
Lowest water level recorded (m)	0.324
Date recorded	02/12/2012







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214477

NSW GOVERNMENT

Towradgi Creek Upstream (214477)
FREQUENCY DISTRIBUTION ANALYSIS

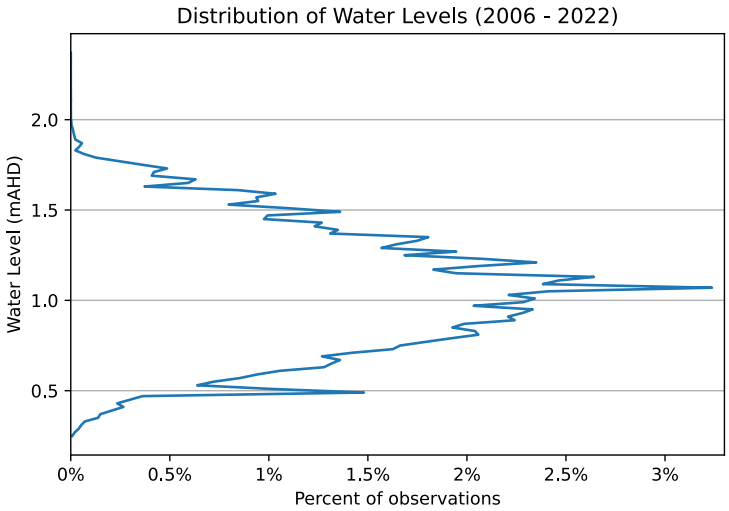
Manly Hydraulics Laboratory

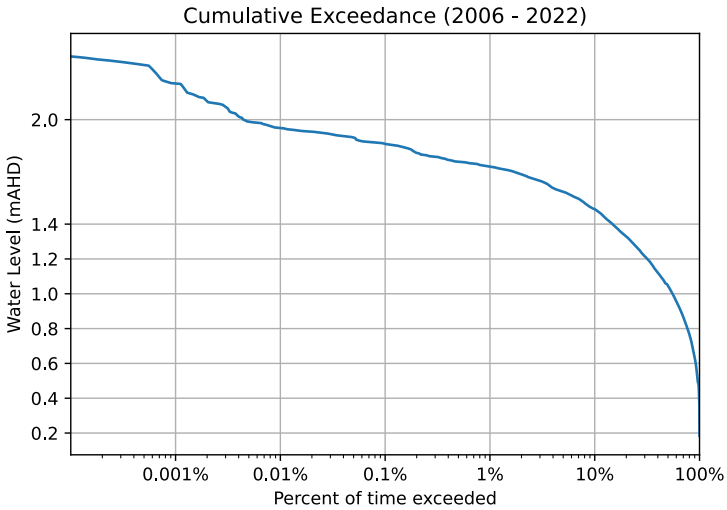
MHL2971
Figure
A217

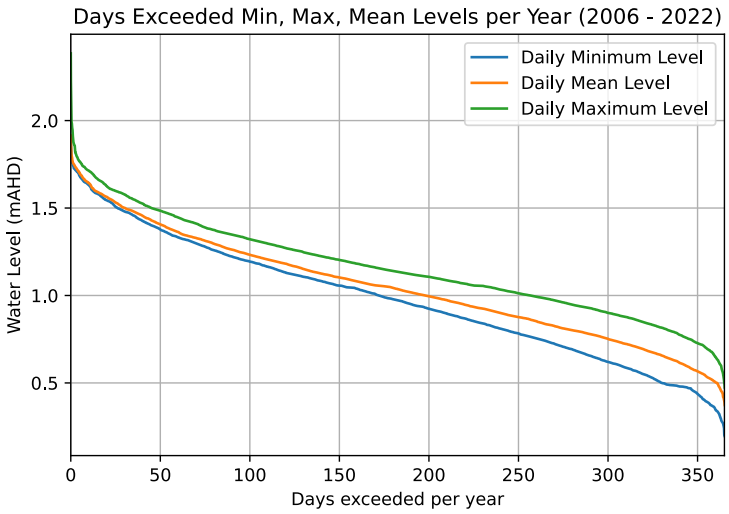
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00001	4	4	0.00073993
2.3	0.00001	3	7	0.0012949
2.2	0.00001	5	12	0.0022198
2.1	0.00002	12	24	0.0044396
2.0	0.00043	235	259	0.047911
1.9	0.00170	920	1179	0.21809
1.8	0.01484	8022	9201	1.702
1.7	0.02544	13751	22952	4.2457
1.6	0.04688	25345	48297	8.9341
1.5	0.05879	31783	80080	14.813
1.4	0.07644	41324	121404	22.458
1.3	0.09302	50288	171692	31.76
1.2	0.10829	58539	230231	42.589
1.1	0.12592	68069	298300	55.18
1.0	0.11238	60752	359052	66.418
0.9	0.10337	55881	414933	76.755
0.8	0.08770	47412	462345	85.526
0.7	0.06456	34903	497248	91.982
0.6	0.04004	21643	518891	95.986
0.5	0.03166	17116	536007	99.152
0.4	0.00735	3975	539982	99.887
0.3	0.00107	579	540561	99.994
0.2	0.00006	30	540591	100

Station Information	
Station no.	214475
Station name	Towradgi Creek Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	307626
Northing	6193606

Summary Statistics	
Time interval (mins)	15
Start of record	26/10/2006
Highest water level recorded (m)	2.385
Date recorded	07/04/2022
Lowest water level recorded (m)	0.227
Date recorded	28/03/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214475

NSW GOVERNMENT

Towradgi Creek Downstream (214475) FREQUENCY DISTRIBUTION ANALYSIS

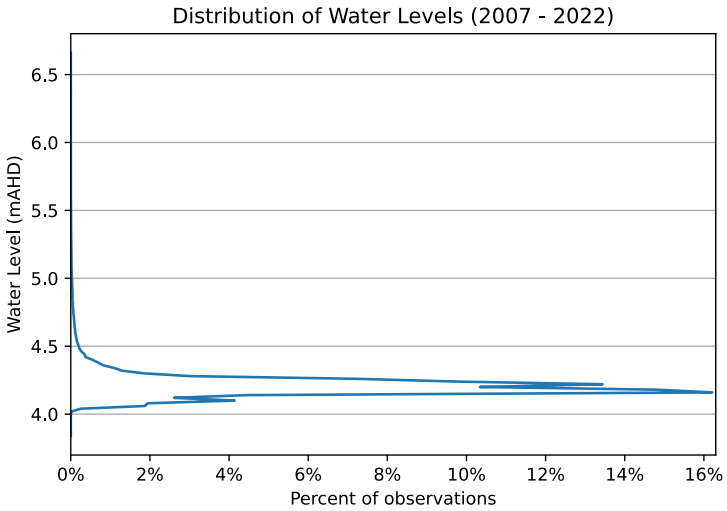
Manly Hydraulics Laboratory

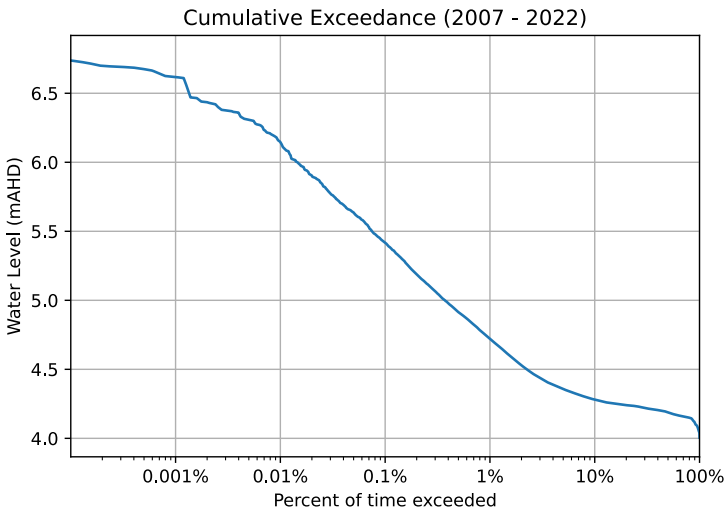
MHL2971
Figure
A218

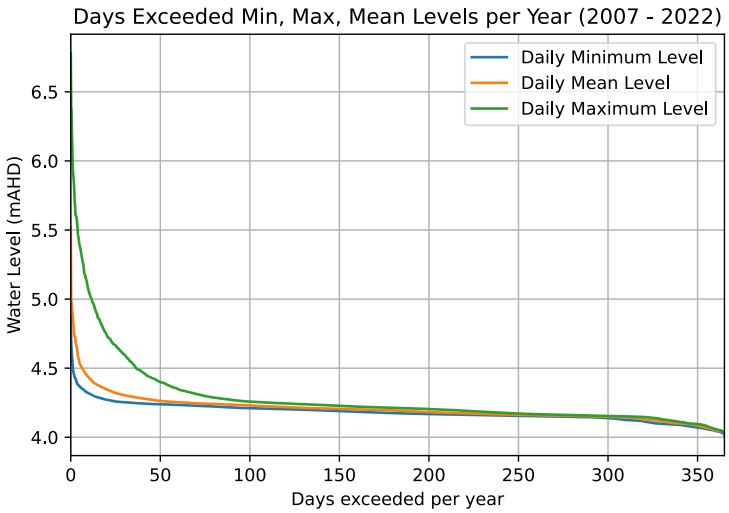
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
6.9	0.00000	0	0	0
6.8	0.00000	1	1	0.0001984
6.7	0.00001	6	7	0.0013888
6.6	0.00000	0	7	0.0013888
6.5	0.00001	6	13	0.0025793
6.4	0.00003	16	29	0.0057537
6.3	0.00003	13	42	0.008333
6.2	0.00003	13	55	0.010912
6.1	0.00004	19	74	0.014682
6.0	0.00006	28	102	0.020237
5.9	0.00008	39	141	0.027975
5.8	0.00011	55	196	0.038887
5.7	0.00018	91	287	0.056942
5.6	0.00018	92	379	0.075195
5.5	0.00031	154	533	0.10575
5.4	0.00039	195	728	0.14444
5.3	0.00049	246	974	0.19325
5.2	0.00074	374	1348	0.26745
5.1	0.00104	526	1874	0.37181
5.0	0.00159	803	2677	0.53113
4.9	0.00231	1165	3842	0.76227
4.8	0.00317	1598	5440	1.0793
4.7	0.00461	2322	7762	1.54
4.6	0.00708	3568	11330	2.2479
4.5	0.01419	7154	18484	3.6673
4.4	0.04435	22351	40835	8.1018
4.3	0.35250	177667	218502	43.352
4.2	0.48417	244032	462534	91.769
4.1	0.08231	41488	504022	100

Station Information	
Station no.	214405
Station name	Cabbage Tree Creek Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	306254
Northing	6191850

Summary Statistics	
Time interval (mins)	15
Start of record	05/09/2007
Highest water level recorded (m)	6.680
Date recorded	05/06/2016
Lowest water level recorded (m)	3.820
Date recorded	28/12/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214405

NSW GOVERNMENT

Cabbage Tree Creek Upstream (214405) FREQUENCY DISTRIBUTION ANALYSIS

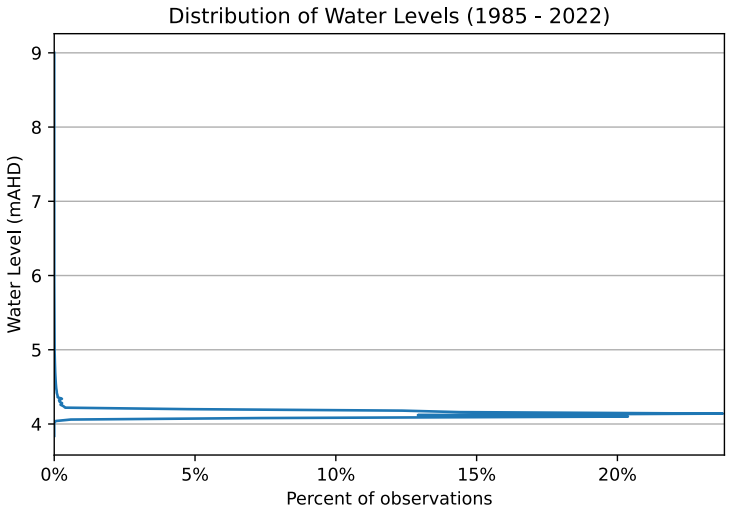
Manly Hydraulics Laboratory

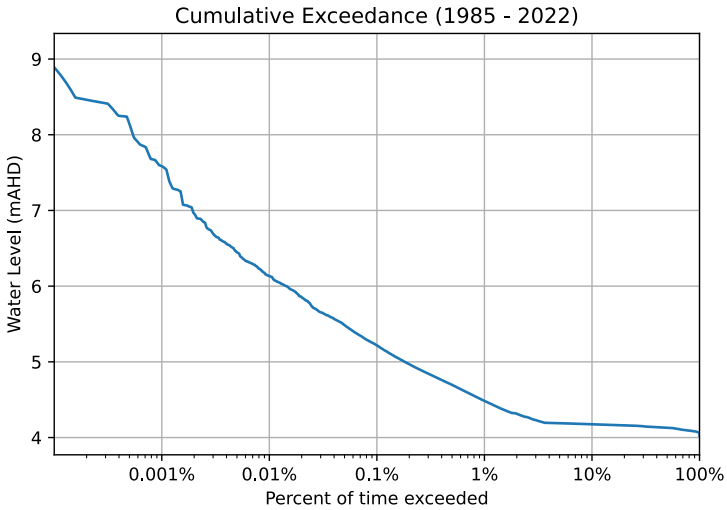
MHL2971
Figure
A219

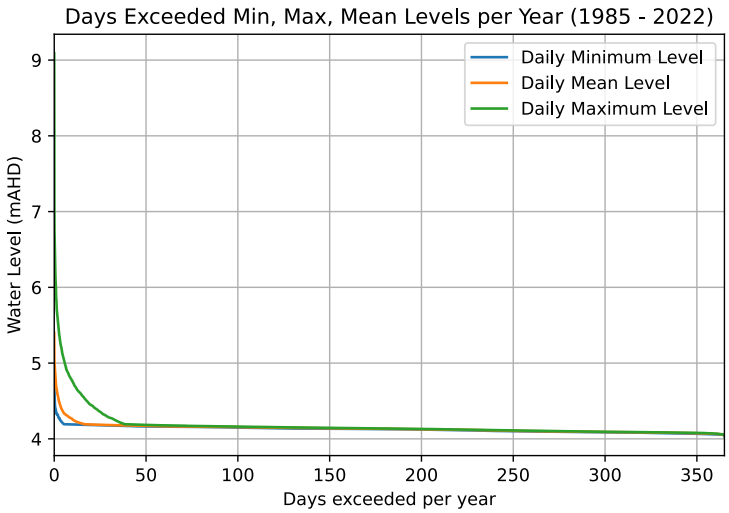
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
9.2	0.00000	2	2	0.00015756
9.0	0.00000	0	2	0.00015756
8.8	0.00000	0	2	0.00015756
8.6	0.00000	3	5	0.0003939
8.4	0.00000	2	7	0.00055146
8.2	0.00000	0	7	0.00055146
8.0	0.00000	3	10	0.00078779
7.8	0.00000	2	12	0.00094535
7.6	0.00000	3	15	0.0011817
7.4	0.00000	5	20	0.0015756
7.2	0.00000	5	25	0.0019695
7.0	0.00001	8	33	0.0025997
6.8	0.00001	14	47	0.0037026
6.6	0.00002	21	68	0.005357
6.4	0.00003	42	110	0.0086657
6.2	0.00006	75	185	0.014574
6.0	0.00008	106	291	0.022925
5.8	0.00014	173	464	0.036554
5.6	0.00024	308	772	0.060818
5.4	0.00044	554	1326	0.10446
5.2	0.00077	981	2307	0.18174
5.0	0.00168	2136	4443	0.35002
4.8	0.00336	4265	8708	0.68601
4.6	0.00652	8277	16985	1.3381
4.4	0.02199	27909	44894	3.5367
4.2	0.96463	1224474	1269368	100

Station Information	
Station no.	214406
Station name	Cabbage Tree Creek Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	306275
Northing	6191832

Summary Statistics	
Time interval (mins)	15
Start of record	01/04/1985
Highest water level recorded (m)	9.010
Date recorded	05/02/2010
Lowest water level recorded (m)	3.820
Date recorded	08/11/1988







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214406

NSW GOVERNMENT

Cabbage Tree Creek Downstream (214406) FREQUENCY DISTRIBUTION ANALYSIS

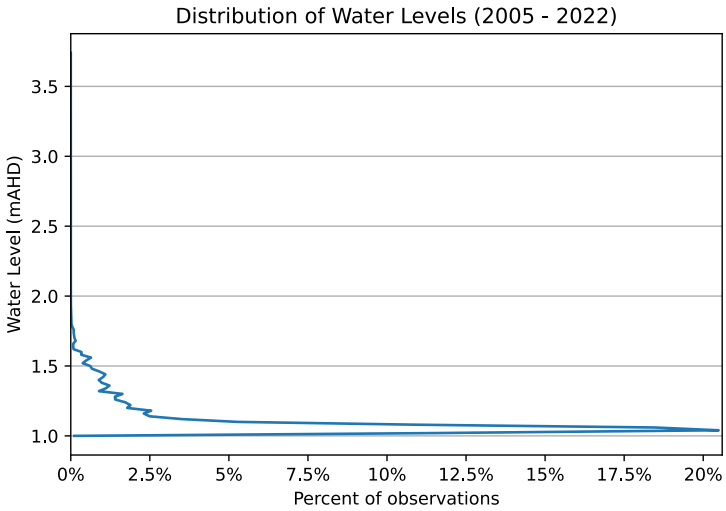
Manly Hydraulics Laboratory

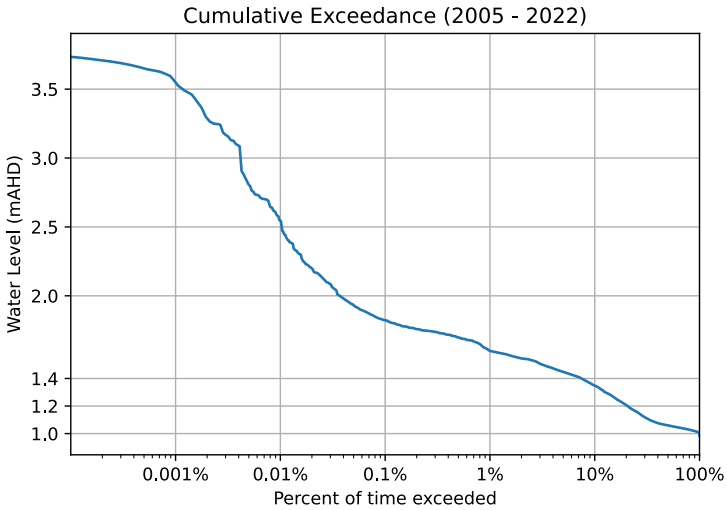
MHL2971
Figure
A220

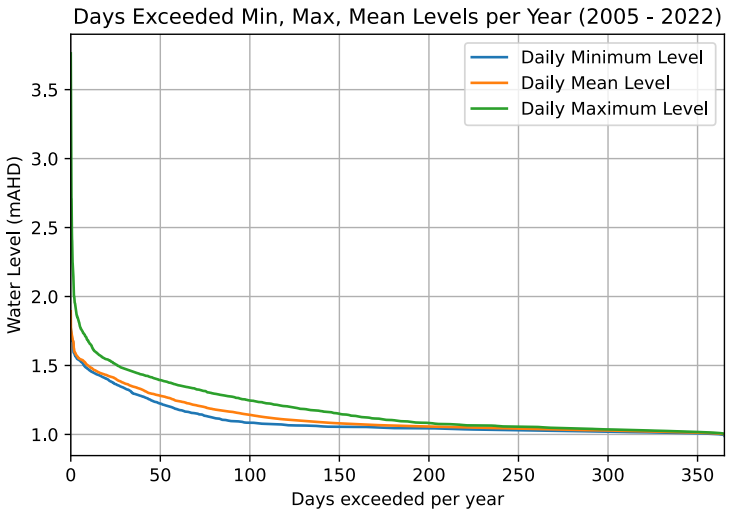
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.8	0.00000	2	2	0.00035548
3.7	0.00001	3	5	0.00088869
3.6	0.00000	2	7	0.0012442
3.5	0.00001	3	10	0.0017774
3.4	0.00000	1	11	0.0019551
3.3	0.00001	5	16	0.0028438
3.2	0.00001	6	22	0.0039102
3.1	0.00000	2	24	0.0042657
3.0	0.00000	1	25	0.0044434
2.9	0.00001	4	29	0.0051544
2.8	0.00002	12	41	0.0072872
2.7	0.00002	11	52	0.0092424
2.6	0.00001	6	58	0.010309
2.5	0.00002	11	69	0.012264
2.4	0.00003	19	88	0.015641
2.3	0.00004	24	112	0.019907
2.2	0.00008	43	155	0.027549
2.1	0.00010	54	209	0.037147
2.0	0.00021	118	327	0.05812
1.9	0.00065	365	692	0.12299
1.8	0.00359	2020	2712	0.48202
1.7	0.00518	2916	5628	1.0003
1.6	0.02177	12251	17879	3.1778
1.5	0.04311	24256	42135	7.489
1.4	0.05084	28606	70741	12.573
1.3	0.08048	45282	116023	20.622
1.2	0.12640	71117	187140	33.262
1.1	0.66627	374862	562002	99.889
1.0	0.00111	625	562627	100

Station Information	
Station no.	214403
Station name	Fairy Creek Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	306315
Northing	6189983

Summary Statistics	
Time interval (mins)	15
Start of record	20/12/2005
Highest water level recorded (m)	3.759
Date recorded	09/02/2012
Lowest water level recorded (m)	0.980
Date recorded	01/01/2006







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214403

NSW GOVERNMENT

Fairy Creek Upstream (214403)
FREQUENCY DISTRIBUTION ANALYSIS

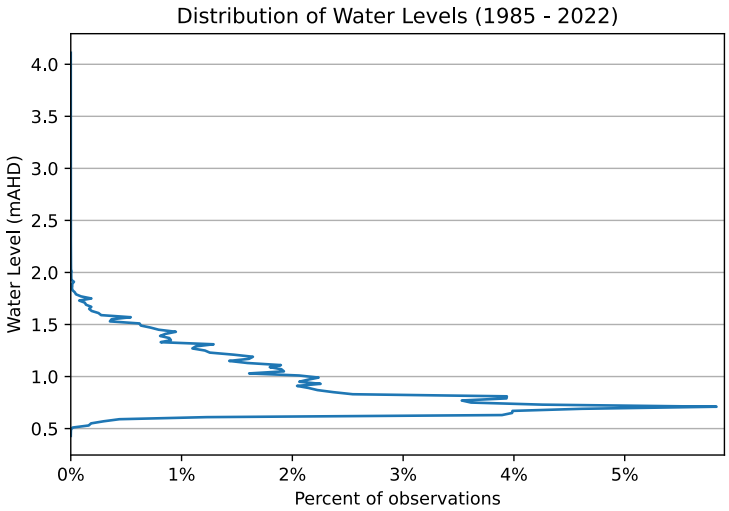
Manly Hydraulics Laboratory

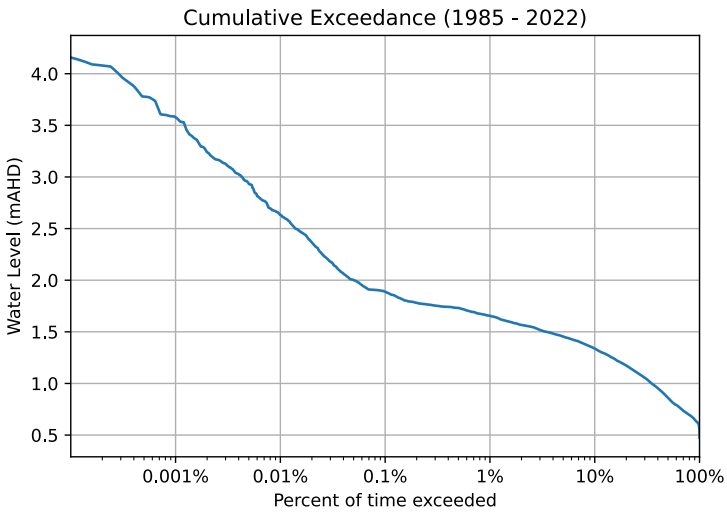
MHL2971
Figure
A221

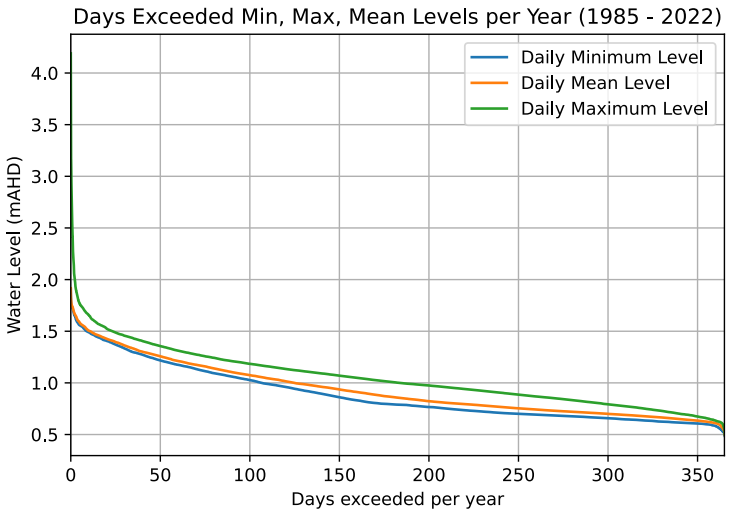
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00000	2	2	0.00015969
4.1	0.00000	3	5	0.00039923
3.9	0.00000	4	9	0.00071861
3.7	0.00001	7	16	0.0012775
3.5	0.00000	6	22	0.0017566
3.3	0.00002	19	41	0.0032737
3.1	0.00002	27	68	0.0054295
2.9	0.00002	30	98	0.0078249
2.7	0.00006	76	174	0.013893
2.5	0.00009	114	288	0.022996
2.3	0.00013	167	455	0.03633
2.1	0.00052	655	1110	0.088629
1.9	0.00552	6912	8022	0.64053
1.7	0.02798	35044	43066	3.4387
1.5	0.08253	103364	146430	11.692
1.3	0.14038	175815	322245	25.73
1.1	0.20082	251507	573752	45.812
0.9	0.32147	402611	976363	77.959
0.7	0.22036	275977	1252340	99.994
0.5	0.00006	70	1252410	100

Station Information	
Station no.	214404
Station name	Fairy Creek Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	306351
Northing	6189967

Summary Statistics	
Time interval (mins)	15
Start of record	01/04/1985
Highest water level recorded (m)	4.120
Date recorded	17/08/1998
Lowest water level recorded (m)	0.410
Date recorded	04/02/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214404

NSW GOVERNMENT

Fairy Creek Downstream (214404)
FREQUENCY DISTRIBUTION ANALYSIS

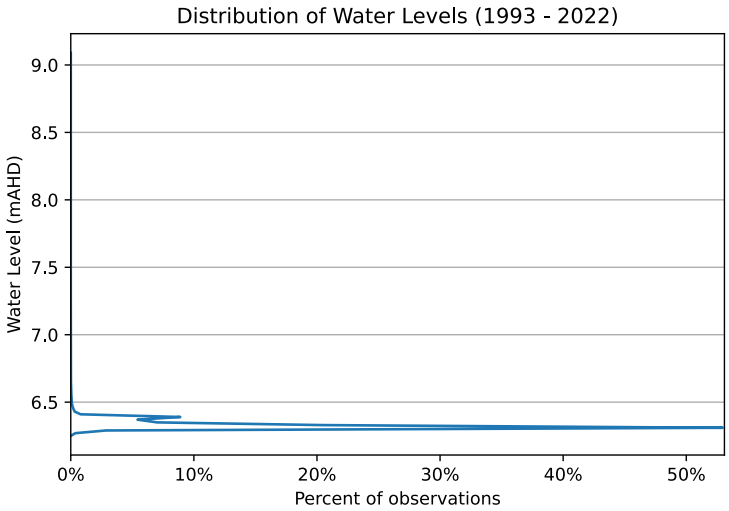
Manly Hydraulics Laboratory

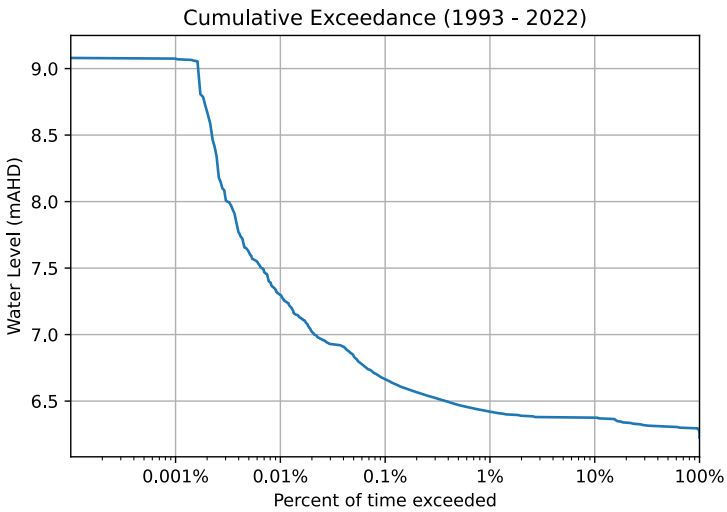
MHL2971
Figure
A222

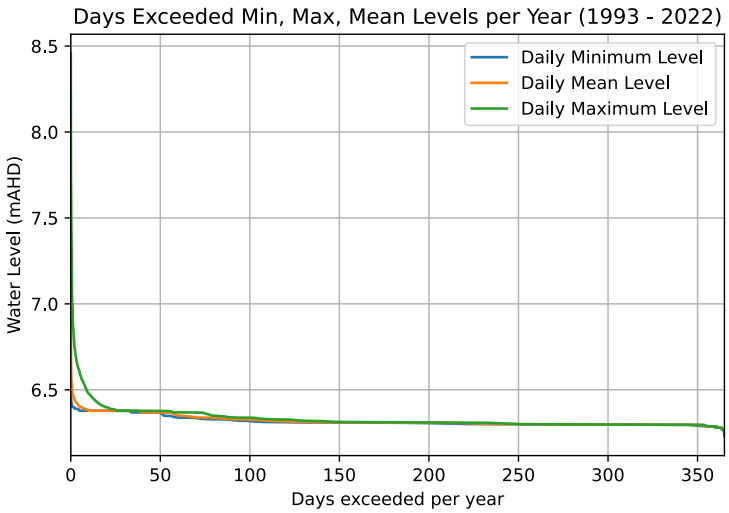
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
9.1	0.00002	15	15	0.0016173
9.0	0.00000	0	15	0.0016173
8.9	0.00000	1	16	0.0017251
8.8	0.00000	2	18	0.0019408
8.7	0.00000	1	19	0.0020486
8.6	0.00000	1	20	0.0021564
8.5	0.00000	2	22	0.0023721
8.4	0.00000	1	23	0.0024799
8.3	0.00000	0	23	0.0024799
8.2	0.00000	2	25	0.0026955
8.1	0.00000	3	28	0.003019
8.0	0.00001	6	34	0.0036659
7.9	0.00000	2	36	0.0038816
7.8	0.00000	4	40	0.0043129
7.7	0.00001	7	47	0.0050676
7.6	0.00002	14	61	0.0065771
7.5	0.00001	10	71	0.0076553
7.4	0.00002	20	91	0.0098117
7.3	0.00003	27	118	0.012723
7.2	0.00004	41	159	0.017144
7.1	0.00004	36	195	0.021025
7.0	0.00020	187	382	0.041188
6.9	0.00014	128	510	0.054989
6.8	0.00028	260	770	0.083022
6.7	0.00067	620	1390	0.14987
6.6	0.00227	2103	3493	0.37662
6.5	0.01046	9705	13198	1.423
6.4	0.63537	589283	602481	64.96
6.3	0.35040	324978	927459	100

Station Information	
Station no.	214420
Station name	Byarong Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	303773
Northing	6186987

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1993
Highest water level recorded (m)	9.112
Date recorded	31/08/1996
Lowest water level recorded (m)	6.232
Date recorded	01/11/2005







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214420

NSW GOVERNMENT

Byarong Creek (214420)
FREQUENCY DISTRIBUTION ANALYSIS

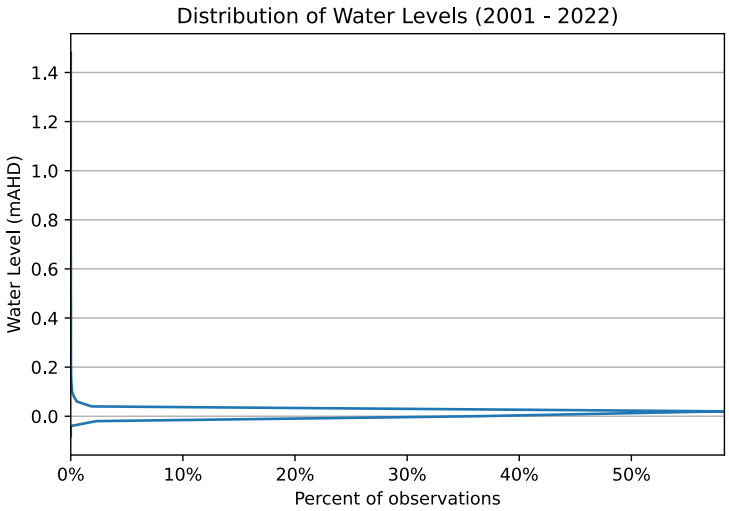
Manly Hydraulics Laboratory

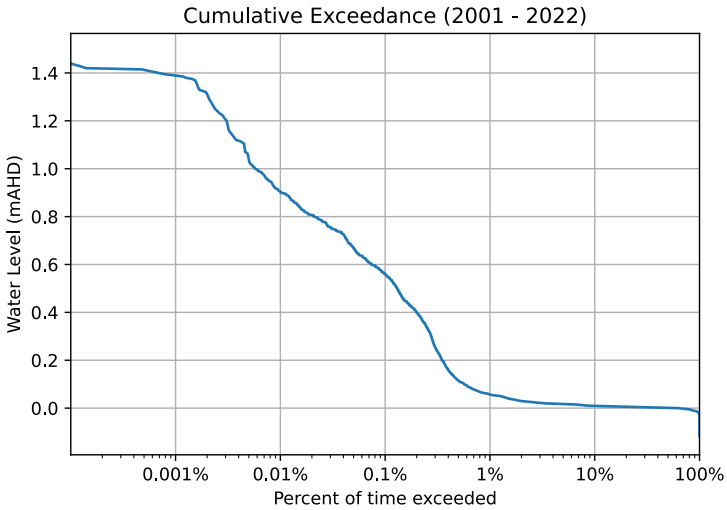
MHL2971
Figure
A223

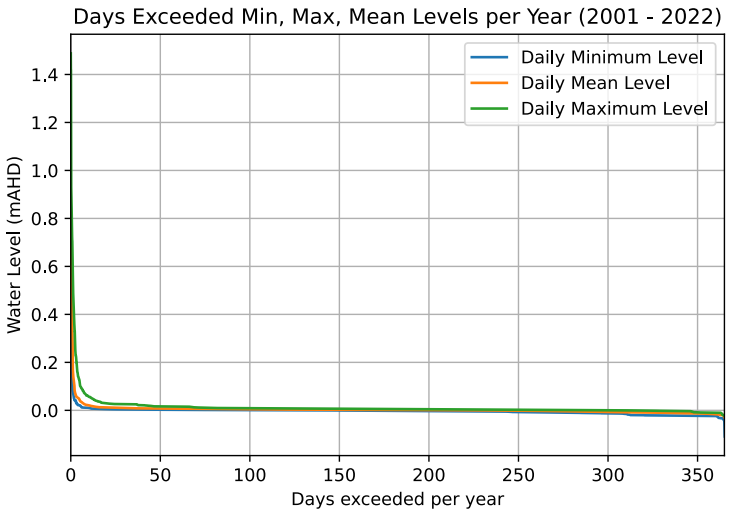
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00001	5	5	0.00070076
1.4	0.00001	10	15	0.0021023
1.3	0.00001	7	22	0.0030833
1.2	0.00002	11	33	0.004625
1.1	0.00001	8	41	0.0057462
1.0	0.00004	31	72	0.010091
0.9	0.00011	77	149	0.020883
0.8	0.00022	160	309	0.043307
0.7	0.00030	213	522	0.073159
0.6	0.00056	400	922	0.12922
0.5	0.00069	493	1415	0.19831
0.4	0.00076	544	1959	0.27456
0.3	0.00072	517	2476	0.34701
0.2	0.00218	1555	4031	0.56495
0.1	0.61002	435258	439289	61.567
0.0	0.38433	274223	713512	100
-0.1	0.00000	2	713514	100

Station Information	
Station no.	214425
Station name	Koloona Ave Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	302909
Northing	6189424

Summary Statistics	
Time interval (mins)	15
Start of record	10/07/2001
Highest water level recorded (m)	1.488
Date recorded	07/04/2022
Lowest water level recorded (m)	-0.100
Date recorded	31/03/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214425

NSW GOVERNMENT

Koloona Ave Upstream (214425)
FREQUENCY DISTRIBUTION ANALYSIS

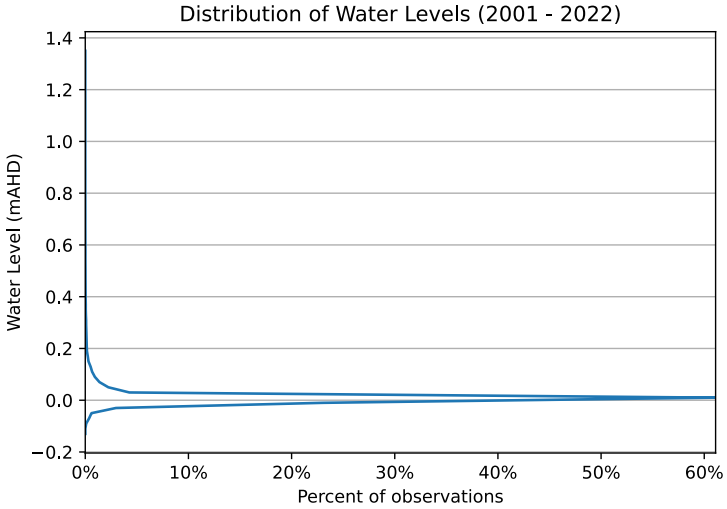
Manly Hydraulics Laboratory

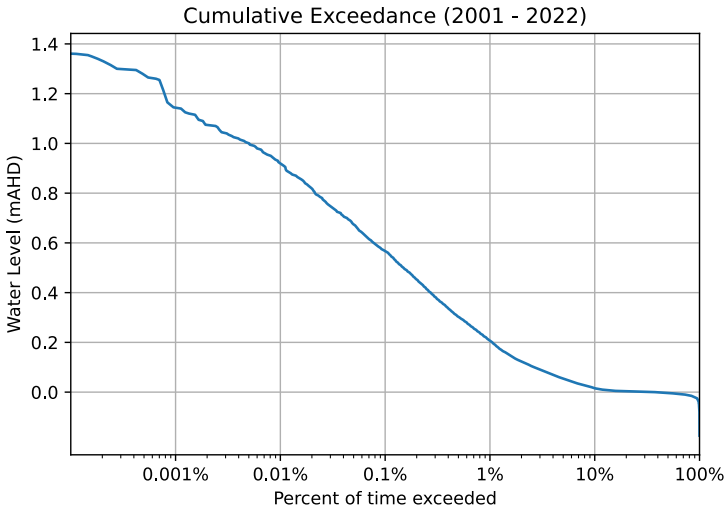
MHL2971
Figure
A224

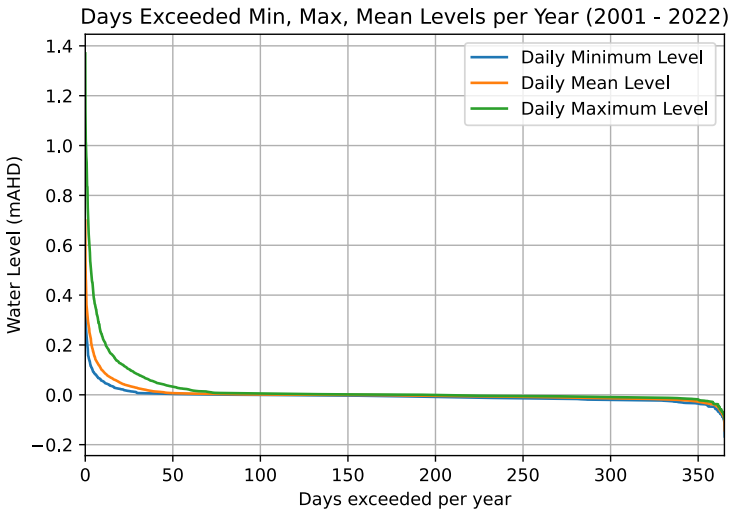
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00000	2	2	0.00027856
1.3	0.00001	4	6	0.00083568
1.2	0.00001	6	12	0.0016714
1.1	0.00003	25	37	0.0051534
1.0	0.00006	44	81	0.011282
0.9	0.00010	73	154	0.021449
0.8	0.00022	157	311	0.043316
0.7	0.00035	249	560	0.077997
0.6	0.00072	514	1074	0.14959
0.5	0.00123	881	1955	0.27229
0.4	0.00240	1726	3681	0.51269
0.3	0.00540	3875	7556	1.0524
0.2	0.01592	11430	18986	2.6444
0.1	0.34847	250192	269178	37.491
0.0	0.62458	448433	717611	99.949
-0.1	0.00051	366	717977	100

Station Information	
Station no.	214426
Station name	Koloona Ave Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	302926
Northing	6189412

Summary Statistics	
Time interval (mins)	15
Start of record	10/07/2001
Highest water level recorded (m)	1.370
Date recorded	07/04/2022
Lowest water level recorded (m)	-0.150
Date recorded	08/02/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214426

NSW GOVERNMENT

Koloona Ave Downstream (214426)
FREQUENCY DISTRIBUTION ANALYSIS

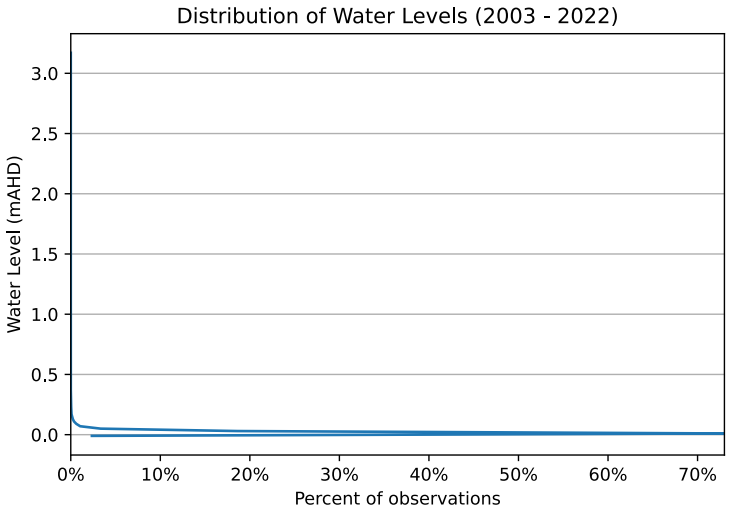
Manly Hydraulics Laboratory

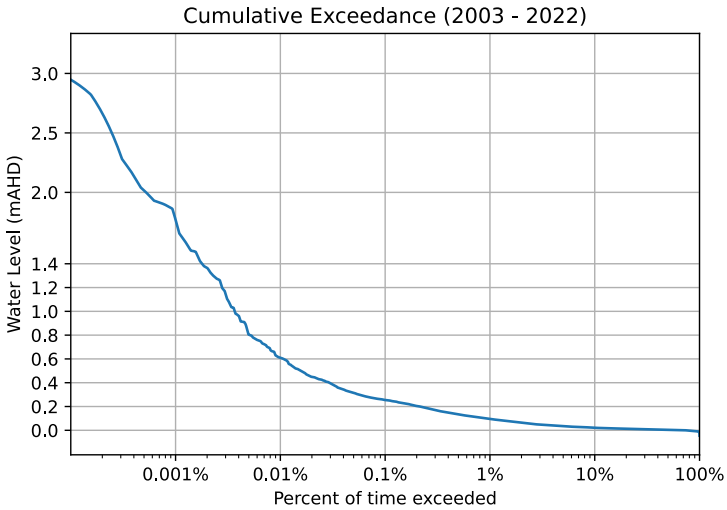
MHL2971
Figure
A225

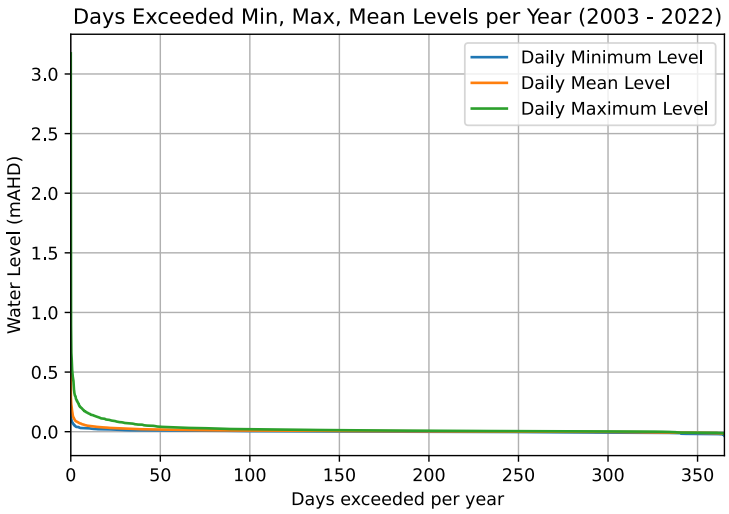
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00000	1	1	0.00015535
3.1	0.00000	0	1	0.00015535
3.0	0.00000	0	1	0.00015535
2.9	0.00000	1	2	0.00031071
2.8	0.00000	0	2	0.00031071
2.7	0.00000	0	2	0.00031071
2.6	0.00000	0	2	0.00031071
2.5	0.00000	0	2	0.00031071
2.4	0.00000	0	2	0.00031071
2.3	0.00000	1	3	0.00046606
2.2	0.00000	0	3	0.00046606
2.1	0.00000	1	4	0.00062142
2.0	0.00000	2	6	0.00093213
1.9	0.00000	1	7	0.0010875
1.8	0.00000	0	7	0.0010875
1.7	0.00000	1	8	0.0012428
1.6	0.00000	3	11	0.0017089
1.5	0.00000	1	12	0.0018643
1.4	0.00000	3	15	0.0023303
1.3	0.00000	3	18	0.0027964
1.2	0.00000	3	21	0.0032624
1.1	0.00000	3	24	0.0037285
1.0	0.00001	6	30	0.0046606
0.9	0.00000	3	33	0.0051267
0.8	0.00002	16	49	0.0076124
0.7	0.00003	20	69	0.010719
0.6	0.00005	33	102	0.015846
0.5	0.00014	88	190	0.029517
0.4	0.00026	170	360	0.055928
0.3	0.00158	1020	1380	0.21439
0.2	0.00705	4537	5917	0.91923
0.1	0.72836	468839	474756	73.755
0.0	0.26245	168934	643690	100

Station Information	
Station no.	214430
Station name	Blackmans Pde Upstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	301022
Northing	6185316

Summary Statistics	
Time interval (mins)	15
Start of record	29/05/2003
Highest water level recorded (m)	3.180
Date recorded	21/03/2011
Lowest water level recorded (m)	-0.030
Date recorded	01/10/2007







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214430

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Blackmans Pde Upstream (214430) FREQUENCY DISTRIBUTION ANALYSIS

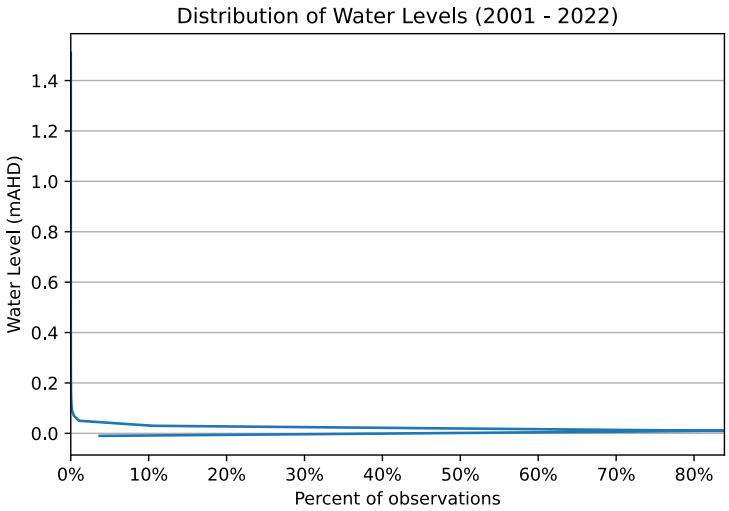
Manly Hydraulics Laboratory

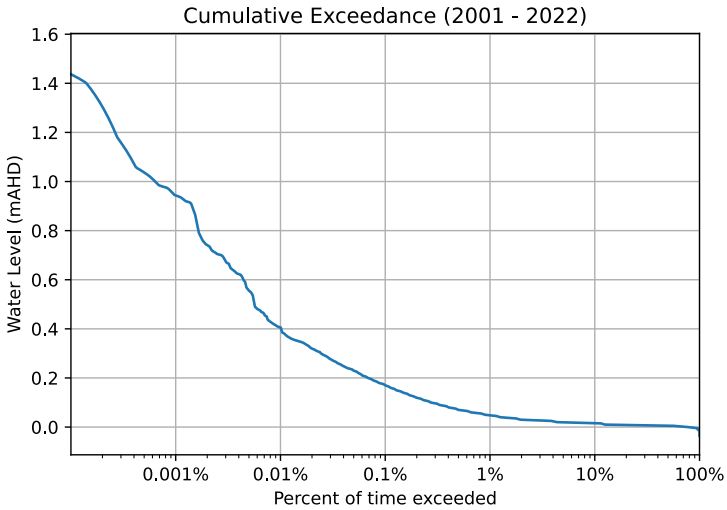
MHL2971
Figure
A226

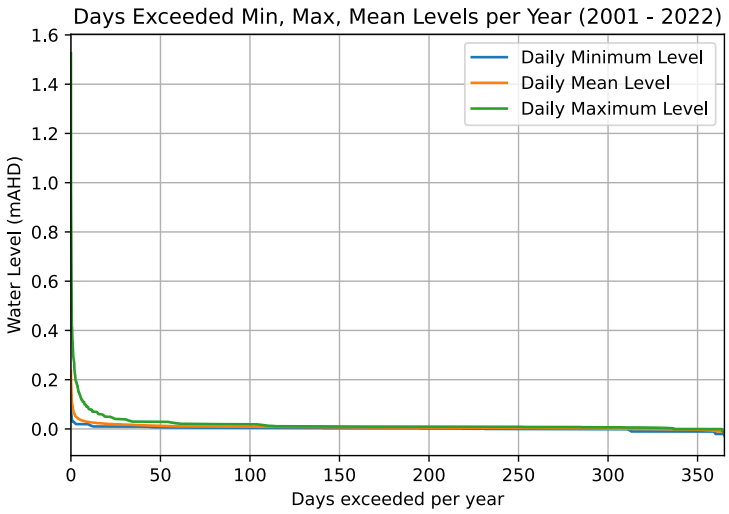
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00000	1	1	0.00013934
1.4	0.00000	0	1	0.00013934
1.3	0.00000	0	1	0.00013934
1.2	0.00000	1	2	0.00027869
1.1	0.00000	2	4	0.00055737
1.0	0.00001	6	10	0.0013934
0.9	0.00000	1	11	0.0015328
0.8	0.00001	8	19	0.0026475
0.7	0.00002	12	31	0.0043196
0.6	0.00001	9	40	0.0055737
0.5	0.00004	32	72	0.010033
0.4	0.00014	102	174	0.024246
0.3	0.00044	316	490	0.068278
0.2	0.00203	1458	1948	0.27144
0.1	0.76991	552530	554478	77.263
0.0	0.22737	163175	717653	100

Station Information	
Station no.	214431
Station name	Blackmans Pde Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	301043
Northing	6185312

Summary Statistics	
Time interval (mins)	15
Start of record	11/10/2001
Highest water level recorded (m)	1.525
Date recorded	07/03/2022
Lowest water level recorded (m)	-0.030
Date recorded	02/07/2006







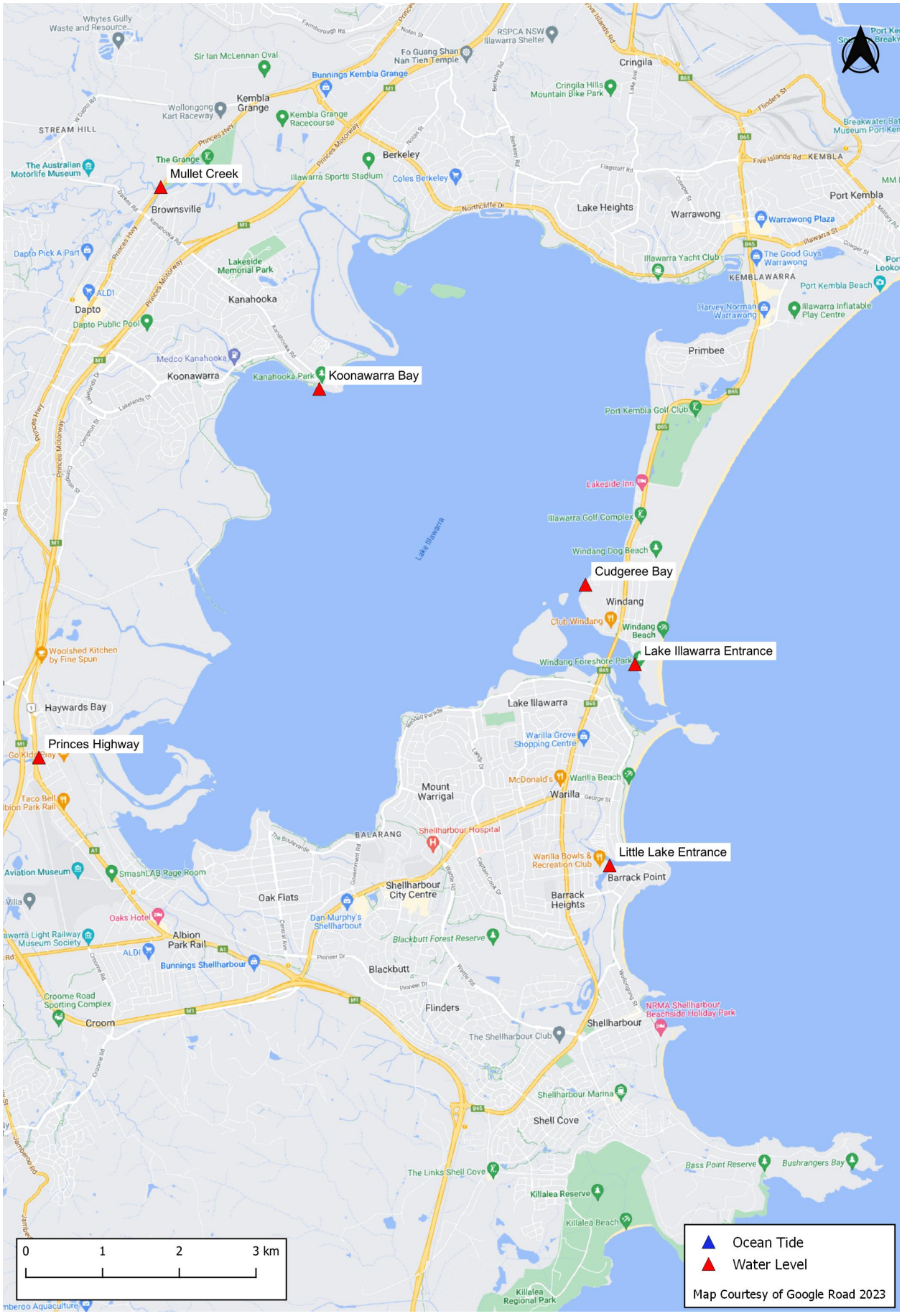
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214431

NSW GOVERNMENT

Blackmans Pde Downstream (214431)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A227



STATION LOCATIONS
LAKE ILLAWARRA REGION

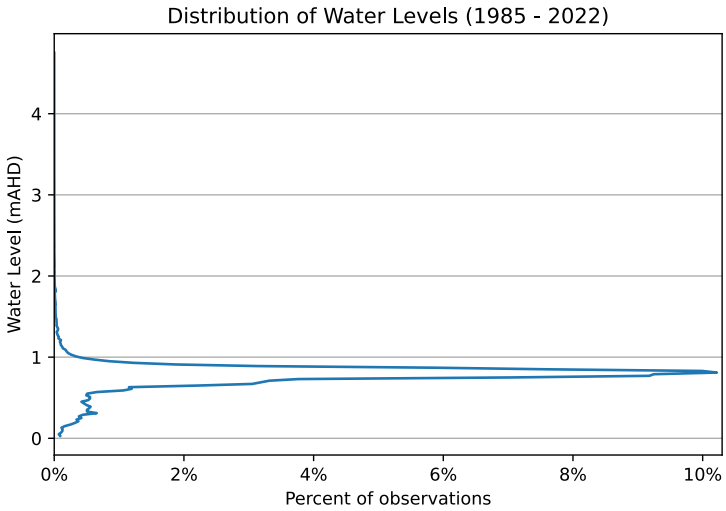
Manly Hydraulics Laboratory

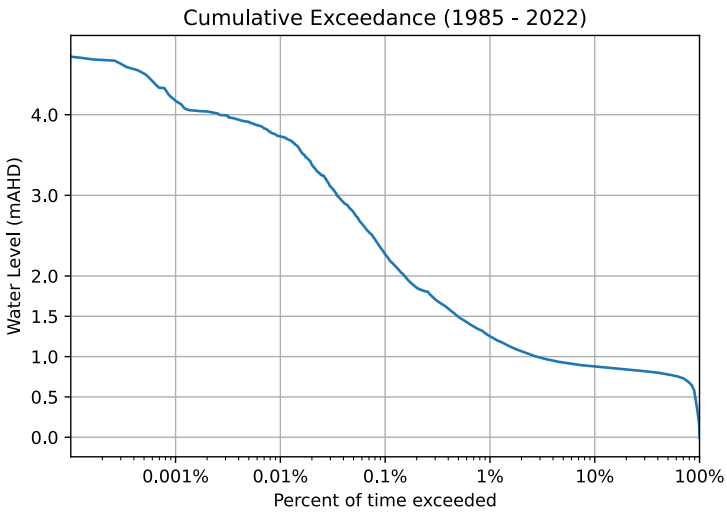
MHL2971
Figure
A228

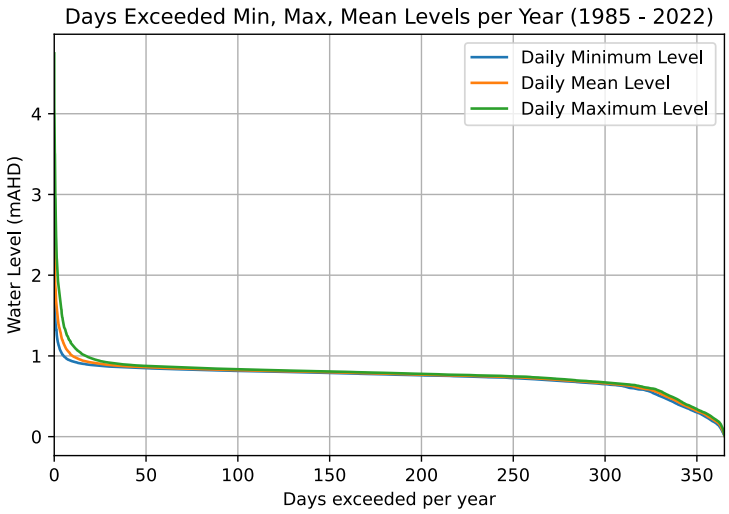
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.8	0.00000	4	4	0.00034723
4.6	0.00000	4	8	0.00069446
4.4	0.00000	3	11	0.00095489
4.2	0.00002	20	31	0.002691
4.0	0.00005	58	89	0.0077259
3.8	0.00007	81	170	0.014757
3.6	0.00005	56	226	0.019619
3.4	0.00008	90	316	0.027431
3.2	0.00007	83	399	0.034636
3.0	0.00015	170	569	0.049394
2.8	0.00015	175	744	0.064585
2.6	0.00021	237	981	0.085159
2.4	0.00024	282	1263	0.10964
2.2	0.00043	501	1764	0.15313
2.0	0.00104	1193	2957	0.25669
1.8	0.00140	1616	4573	0.39697
1.6	0.00250	2884	7457	0.64733
1.4	0.00529	6094	13551	1.1763
1.2	0.01604	18479	32030	2.7805
1.0	0.37438	431278	463308	40.219
0.8	0.47294	544808	1008116	87.513
0.6	0.06088	70135	1078251	93.601
0.4	0.04823	55556	1133807	98.424
0.2	0.01576	18160	1151967	100

Station Information	
Station no.	214400
Station name	Mullet Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	298397
Northing	6182420

Summary Statistics	
Time interval (mins)	15
Start of record	01/04/1985
Highest water level recorded (m)	4.761
Date recorded	16/03/2017
Lowest water level recorded (m)	0.009
Date recorded	04/01/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214400

NSW GOVERNMENT

Mullet Creek (214400)
FREQUENCY DISTRIBUTION ANALYSIS

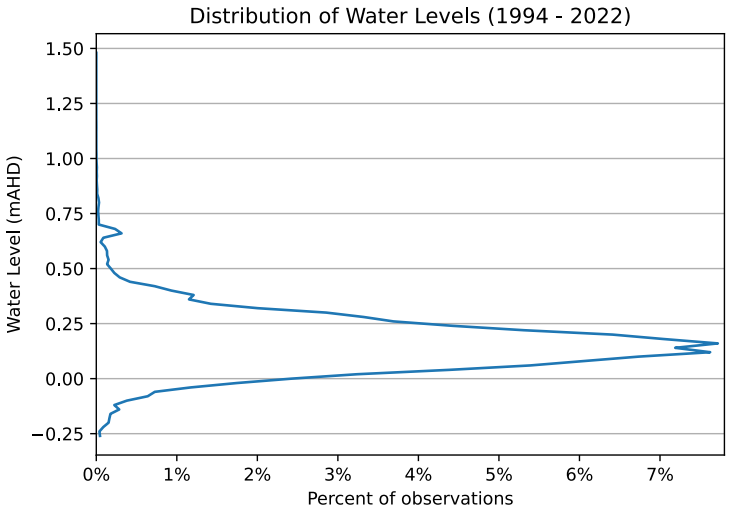
Manly Hydraulics Laboratory

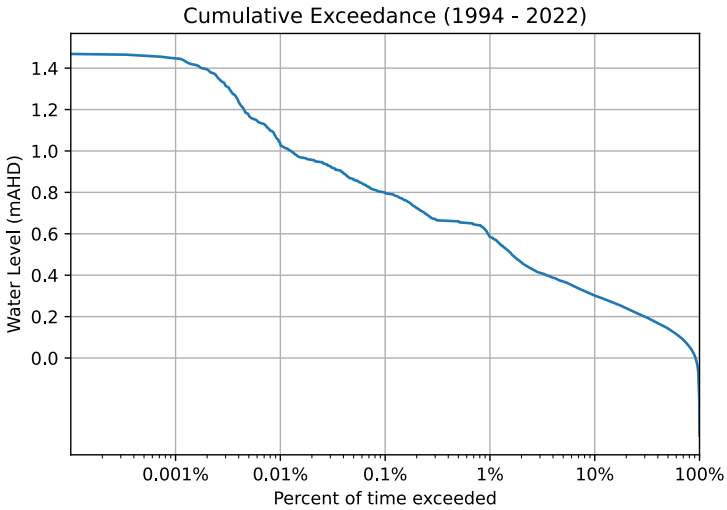
MHL2971
Figure
A229

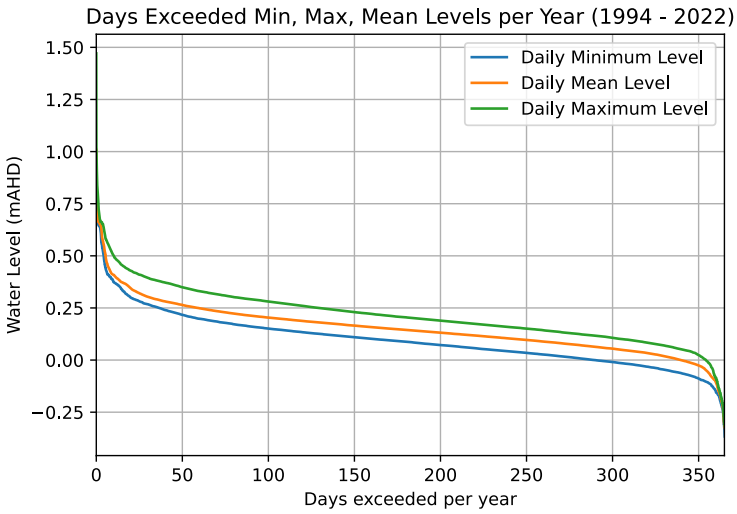
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00002	18	18	0.0018626
1.4	0.00001	14	32	0.0033112
1.3	0.00001	12	44	0.0045529
1.2	0.00003	33	77	0.0079676
1.1	0.00005	46	123	0.012728
1.0	0.00026	247	370	0.038286
0.9	0.00060	580	950	0.098302
0.8	0.00141	1364	2314	0.23944
0.7	0.00720	6956	9270	0.95922
0.6	0.00659	6372	15642	1.6186
0.5	0.01838	17766	33408	3.4569
0.4	0.06719	64937	98345	10.176
0.3	0.19594	189358	287703	29.77
0.2	0.35986	347769	635472	65.756
0.1	0.25814	249471	884943	91.57
0.0	0.06708	64830	949773	98.278
-0.1	0.01227	11857	961630	99.505
-0.2	0.00361	3493	965123	99.867
-0.3	0.00133	1288	966411	100

Station Information	
Station no.	214440
Station name	Koonawarra Bay
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	300464
Northing	6179788

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1994
Highest water level recorded (m)	1.498
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.280
Date recorded	15/02/2003







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214440

NSW GOVERNMENT

Koonawarra Bay (214440)
FREQUENCY DISTRIBUTION ANALYSIS

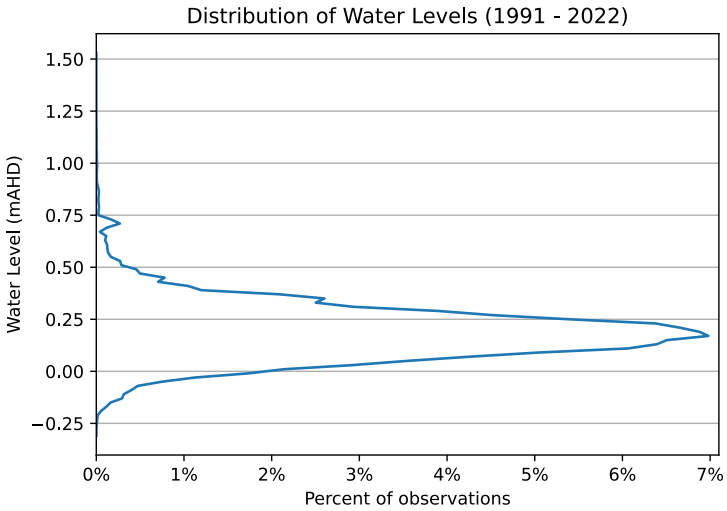
Manly Hydraulics Laboratory

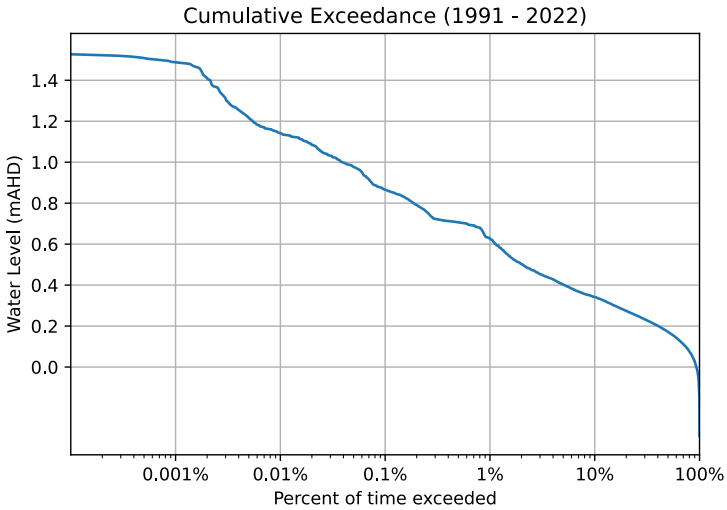
MHL2971
Figure
A230

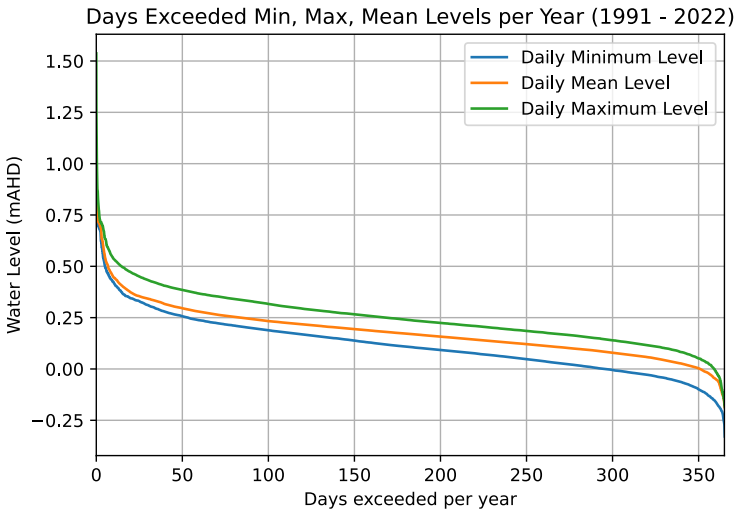
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00001	16	16	0.0014817
1.4	0.00001	10	26	0.0024077
1.3	0.00002	26	52	0.0048155
1.2	0.00013	136	188	0.01741
1.1	0.00021	224	412	0.038153
1.0	0.00036	384	796	0.073714
0.9	0.00112	1214	2010	0.18614
0.8	0.00418	4517	6527	0.60443
0.7	0.00535	5777	12304	1.1394
0.6	0.00915	9877	22181	2.0541
0.5	0.03071	33165	55346	5.1253
0.4	0.10347	111732	167078	15.472
0.3	0.25038	270371	437449	40.51
0.2	0.33191	358414	795863	73.701
0.1	0.19873	214596	1010459	93.574
0.0	0.05230	56477	1066936	98.804
-0.1	0.01146	12379	1079315	99.95
-0.2	0.00048	517	1079832	99.998
-0.3	0.00001	12	1079844	99.999

Station Information	
Station no.	2144101
Station name	Cudgeree Bay 2
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	303859
Northing	6176981

Summary Statistics	
Time interval (mins)	15
Start of record	04/01/1991
Highest water level recorded (m)	1.547
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.328
Date recorded	16/02/2022







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-2144101

NSW GOVERNMENT

Cudgeree Bay 2 (2144101)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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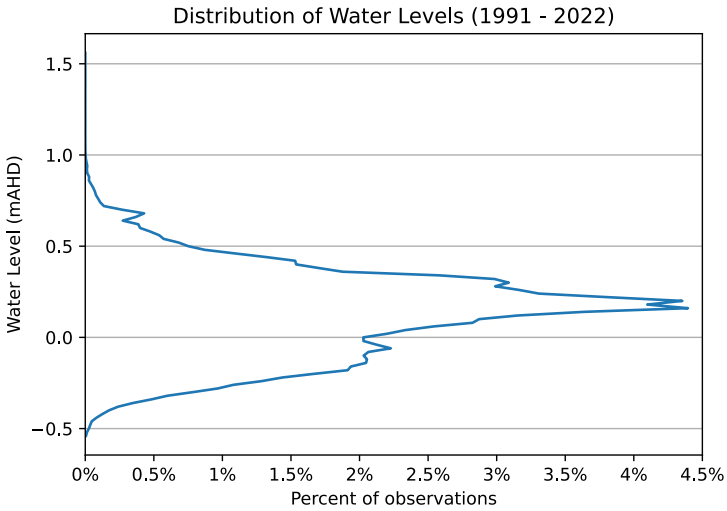
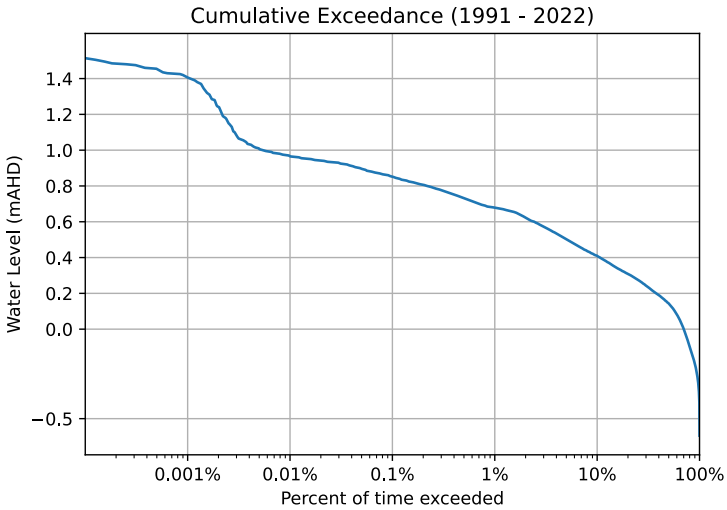
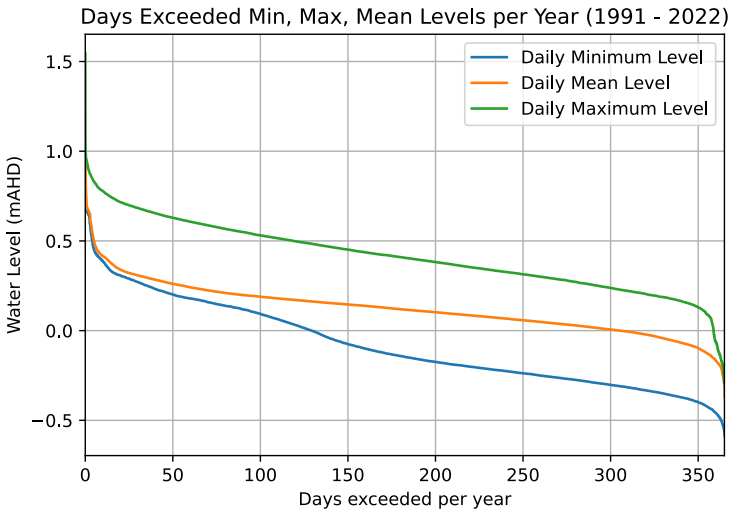
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00001	9	9	0.00086898
1.4	0.00001	7	16	0.0015449
1.3	0.00000	5	21	0.0020276
1.2	0.00001	7	28	0.0027035
1.1	0.00003	27	55	0.0053104
1.0	0.00043	441	496	0.04789
0.9	0.00170	1763	2259	0.21811
0.8	0.00487	5048	7307	0.70551
0.7	0.01727	17885	25192	2.4324
0.6	0.02665	27597	52789	5.0969
0.5	0.05569	57673	110462	10.665
0.4	0.10686	110672	221134	21.351
0.3	0.16373	169578	390712	37.725
0.2	0.19642	203432	594144	57.367
0.1	0.12773	132286	726430	70.139
0.0	0.10473	108469	834899	80.612
-0.1	0.09982	103382	938281	90.594
-0.2	0.06437	66670	1004951	97.031
-0.3	0.02455	25429	1030380	99.487
-0.4	0.00466	4824	1035204	99.952
-0.5	0.00048	492	1035696	100

Station Information	
Station no.	214417
Station name	Lake Illawarra Entrance
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	304579
Northing	6176195

Summary Statistics	
Time interval (mins)	15
Start of record	24/07/1991
Highest water level recorded (m)	1.583
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.561
Date recorded	13/11/2017







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214417

NSW GOVERNMENT

Lake Illawarra Entrance (214417)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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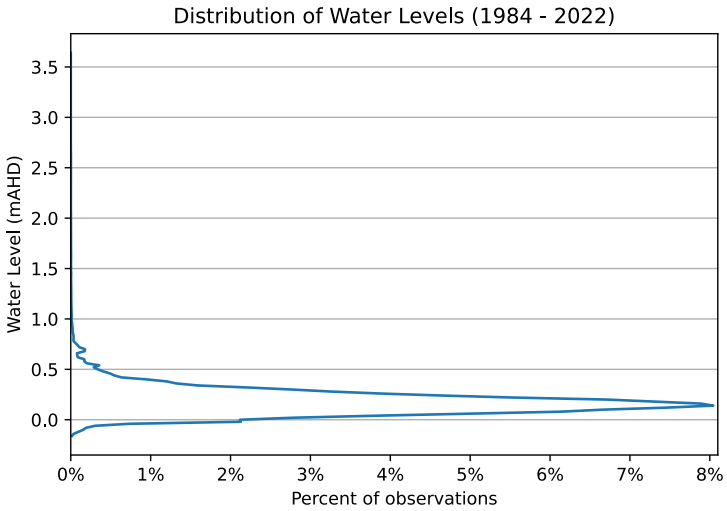
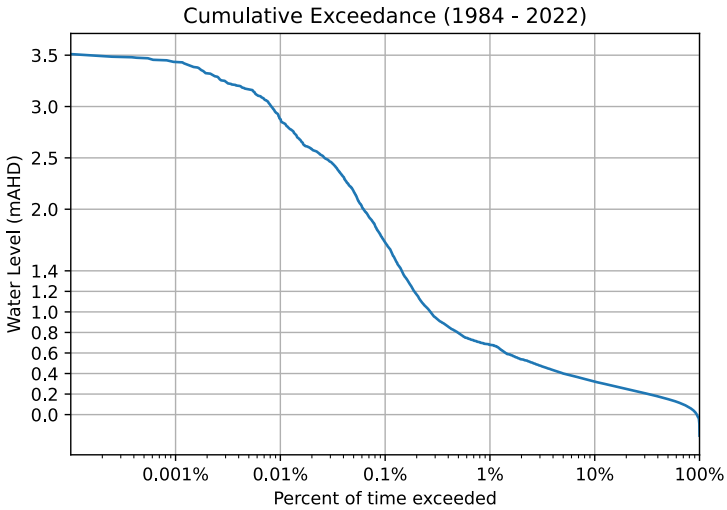
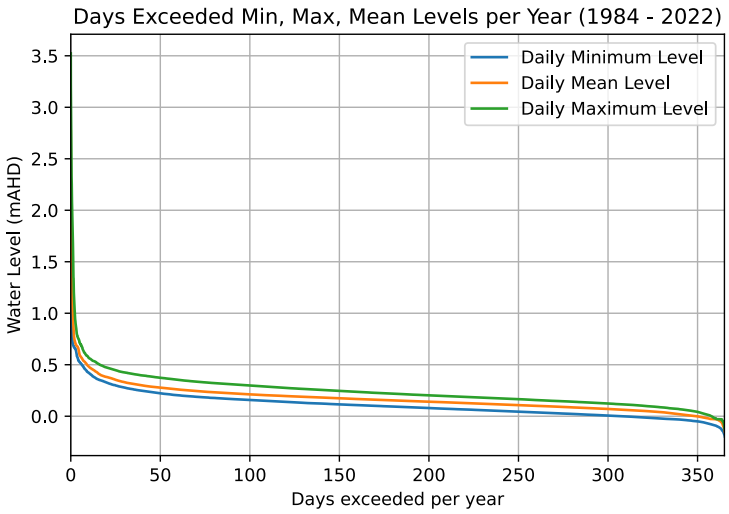
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.6	0.00001	16	16	0.0014133
3.4	0.00003	31	47	0.0041517
3.2	0.00004	47	94	0.0083034
3.0	0.00004	40	134	0.011837
2.8	0.00007	82	216	0.01908
2.6	0.00016	176	392	0.034627
2.4	0.00014	158	550	0.048584
2.2	0.00014	156	706	0.062364
2.0	0.00022	248	954	0.084271
1.8	0.00029	327	1281	0.11316
1.6	0.00031	351	1632	0.14416
1.4	0.00046	522	2154	0.19027
1.2	0.00079	893	3047	0.26915
1.0	0.00221	2506	5553	0.49052
0.8	0.00916	10374	15927	1.4069
0.6	0.03596	40708	56635	5.0028
0.4	0.27395	310134	366769	32.398
0.2	0.61815	699788	1066557	94.213
0.0	0.05787	65508	1132065	100

Station Information	
Station no.	214402
Station name	Macquarie Rivulet
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	296808
Northing	6174987

Summary Statistics	
Time interval (mins)	15
Start of record	12/12/1984
Highest water level recorded (m)	3.650
Date recorded	11/06/1991
Lowest water level recorded (m)	-0.185
Date recorded	23/09/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214402

NSW GOVERNMENT

Macquarie Rivulet (214402)
FREQUENCY DISTRIBUTION ANALYSIS

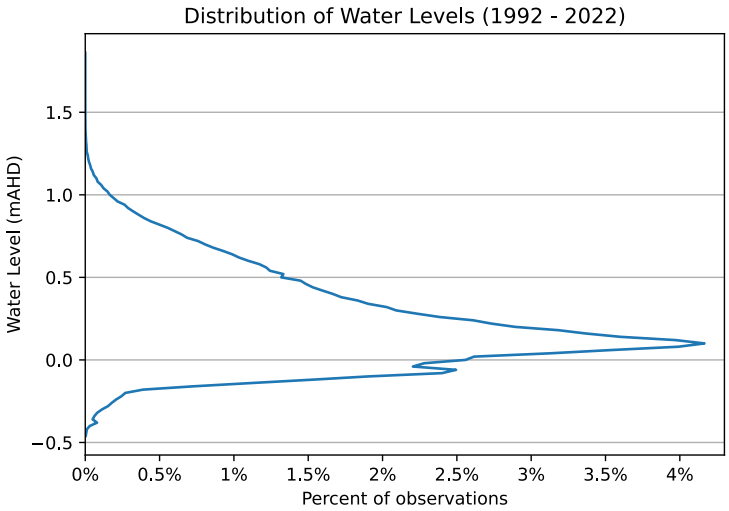
Manly Hydraulics Laboratory

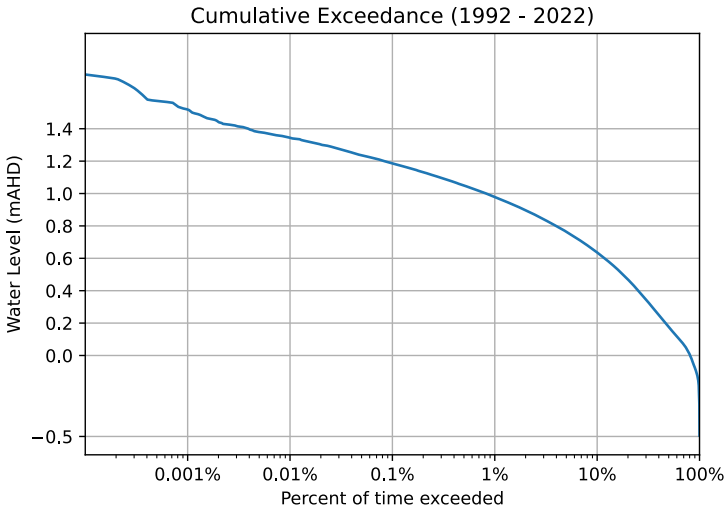
MHL2971
Figure
A233

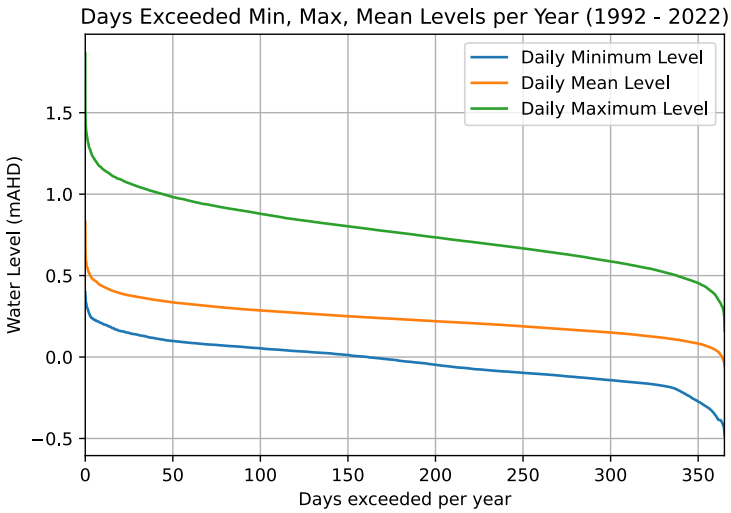
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00000	1	1	0.00010189
1.8	0.00000	2	3	0.00030566
1.7	0.00000	1	4	0.00040755
1.6	0.00001	7	11	0.0011208
1.5	0.00003	28	39	0.0039736
1.4	0.00017	163	202	0.020581
1.3	0.00063	616	818	0.083343
1.2	0.00204	2000	2818	0.28712
1.1	0.00537	5267	8085	0.82376
1.0	0.01126	11053	19138	1.9499
0.9	0.02011	19742	38880	3.9614
0.8	0.03249	31885	70765	7.21
0.7	0.04616	45310	116075	11.827
0.6	0.06062	59493	175568	17.888
0.5	0.07379	72419	247987	25.267
0.4	0.09150	89801	337788	34.416
0.3	0.12049	118260	456048	46.465
0.2	0.17018	167033	623081	63.484
0.1	0.17440	171173	794254	80.924
0.0	0.11937	117164	911418	92.862
-0.1	0.05652	55475	966893	98.514
-0.2	0.01051	10312	977205	99.564
-0.3	0.00383	3761	980966	99.948
-0.4	0.00052	515	981481	100

Station Information	
Station no.	214467
Station name	Little Lake Entrance
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	304250
Northing	6173571

Summary Statistics	
Time interval (mins)	15
Start of record	27/05/1992
Highest water level recorded (m)	1.876
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.477
Date recorded	27/03/2017







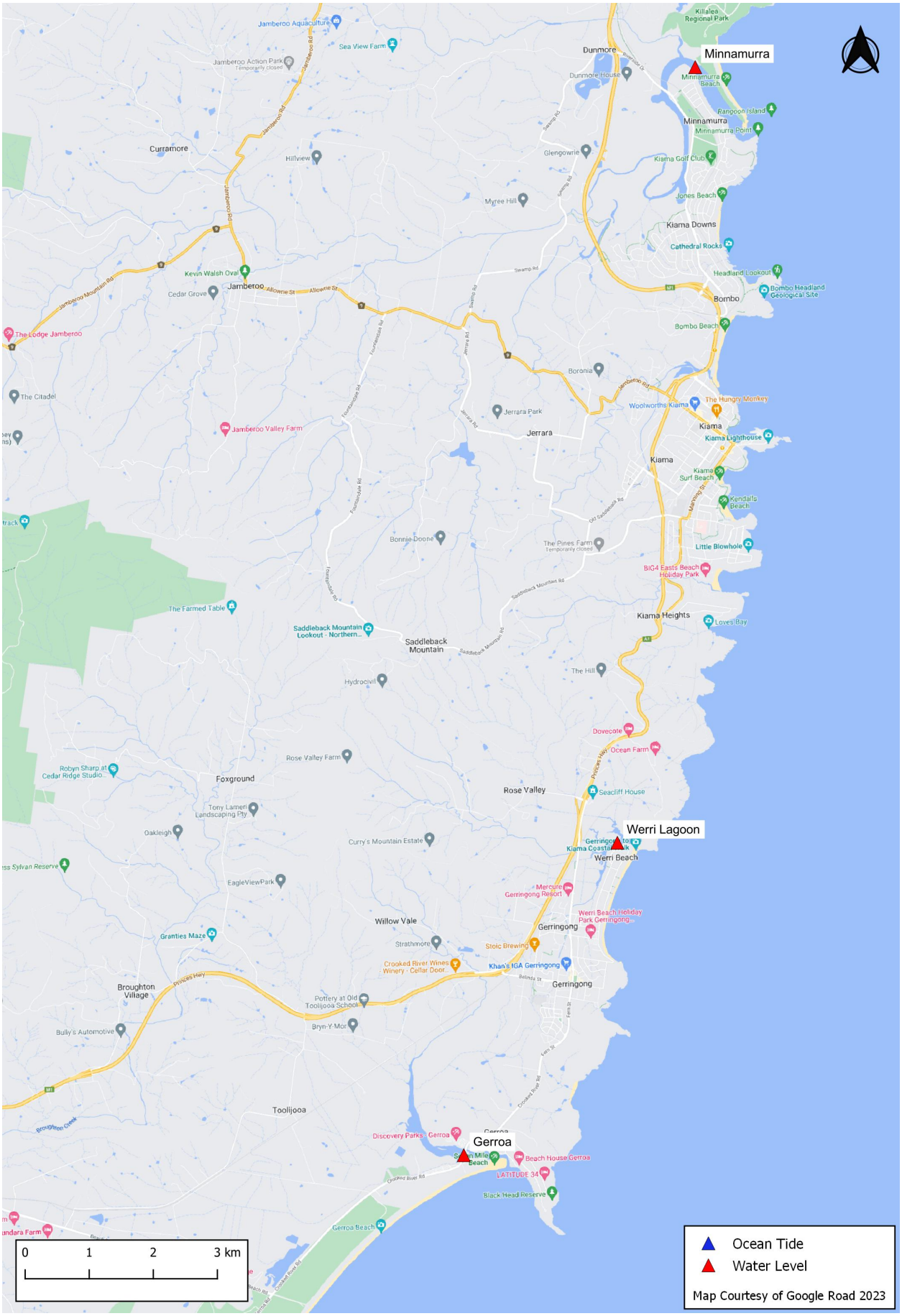
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214467

NSW GOVERNMENT

Little Lake Entrance (214467)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A234



NSW GOVERNMENT

STATION LOCATIONS
KIAMA REGION

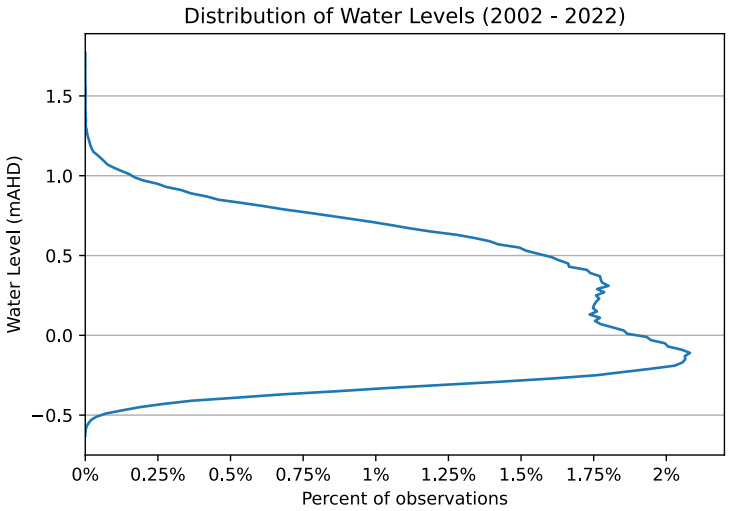
Manly Hydraulics Laboratory

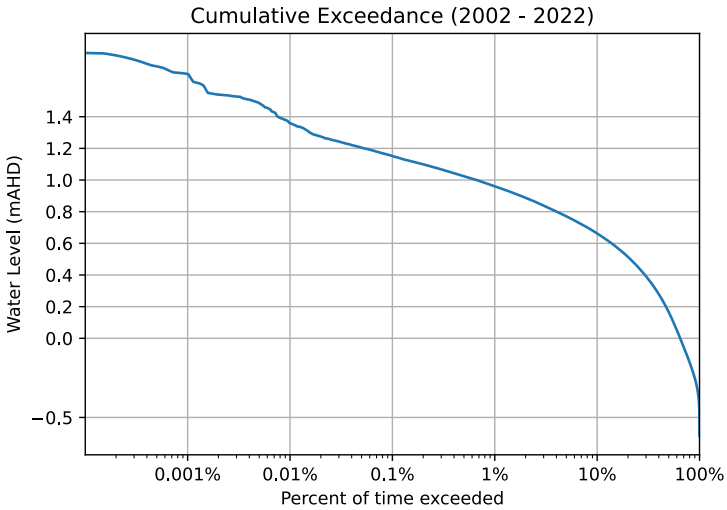
MHL2971
Figure
A235

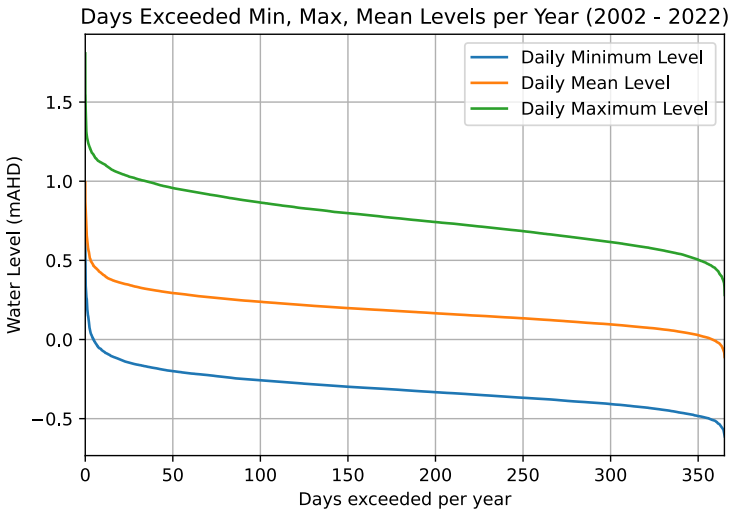
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00000	3	3	0.00042894
1.7	0.00001	5	8	0.0011438
1.6	0.00003	21	29	0.0041464
1.5	0.00003	23	52	0.007435
1.4	0.00008	55	107	0.015299
1.3	0.00037	260	367	0.052474
1.2	0.00145	1017	1384	0.19788
1.1	0.00468	3271	4655	0.66557
1.0	0.01130	7903	12558	1.7955
0.9	0.02237	15647	28205	4.0328
0.8	0.03993	27925	56130	8.0255
0.7	0.05809	40631	96761	13.835
0.6	0.07285	50952	147713	21.12
0.5	0.08205	57388	205101	29.325
0.4	0.08824	61713	266814	38.149
0.3	0.08864	61996	328810	47.013
0.2	0.08758	61253	390063	55.771
0.1	0.09018	63075	453138	64.79
0.0	0.09850	68889	522027	74.639
-0.1	0.10300	72037	594064	84.939
-0.2	0.08920	62383	656447	93.859
-0.3	0.04805	33603	690050	98.663
-0.4	0.01229	8599	698649	99.893
-0.5	0.00106	741	699390	99.999
-0.6	0.00001	6	699396	100

Station Information	
Station no.	214442
Station name	Minnamurra
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	302515
Northing	6166808

Summary Statistics	
Time interval (mins)	15
Start of record	16/03/2002
Highest water level recorded (m)	1.780
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.649
Date recorded	04/09/2013







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214442

NSW GOVERNMENT

Minnamurra (214442)
FREQUENCY DISTRIBUTION ANALYSIS

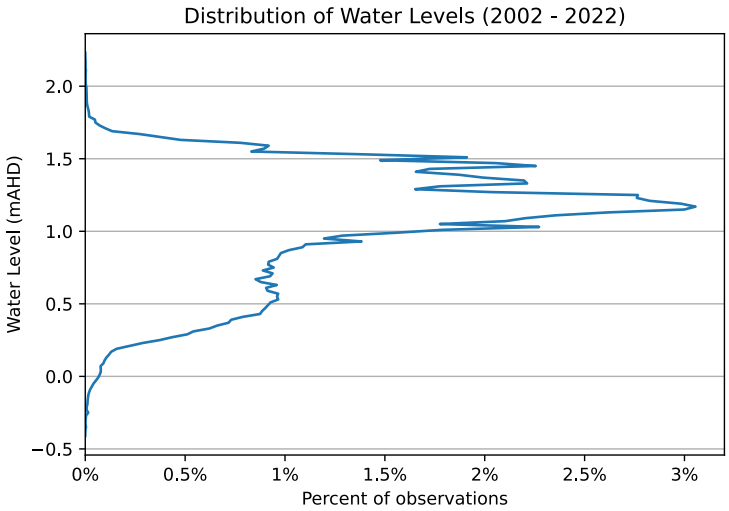
Manly Hydraulics Laboratory

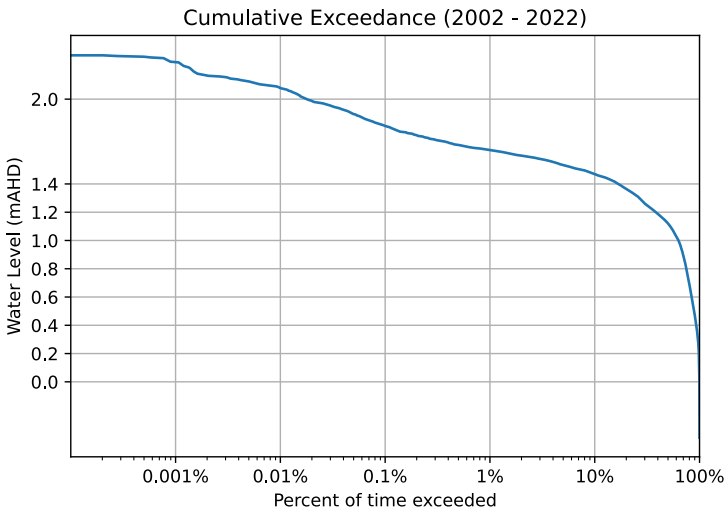
MHL2971
Figure
A236

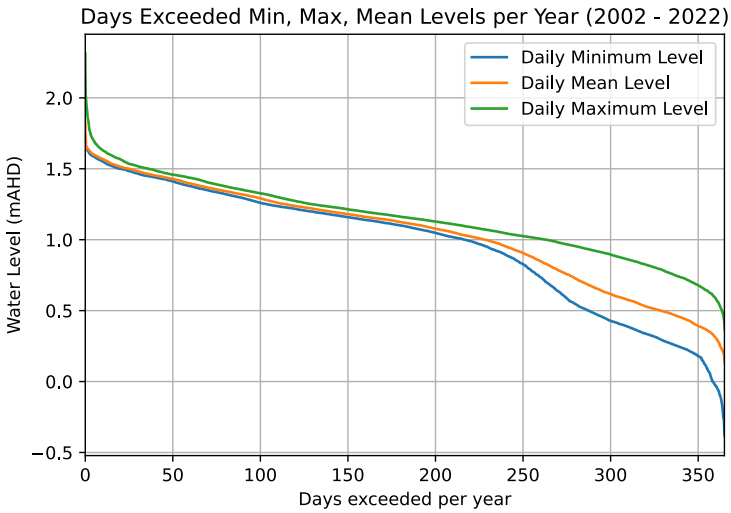
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00001	6	6	0.00090076
2.2	0.00006	37	43	0.0064555
2.1	0.00011	73	116	0.017415
2.0	0.00030	202	318	0.047741
1.9	0.00063	421	739	0.11094
1.8	0.00257	1714	2453	0.36826
1.7	0.01641	10928	13381	2.0089
1.6	0.05487	36549	49930	7.4959
1.5	0.09222	61431	111361	16.718
1.4	0.10079	67139	178500	26.798
1.3	0.11459	76327	254827	38.257
1.2	0.14334	95476	350303	52.59
1.1	0.10390	69211	419514	62.981
1.0	0.06815	45392	464906	69.795
0.9	0.05043	33590	498496	74.838
0.8	0.04637	30887	529383	79.475
0.7	0.04544	30270	559653	84.019
0.6	0.04751	31649	591302	88.771
0.5	0.04418	29430	620732	93.189
0.4	0.03390	22581	643313	96.579
0.3	0.01988	13245	656558	98.567
0.2	0.00666	4436	660994	99.233
0.1	0.00406	2702	663696	99.639
0.0	0.00237	1579	665275	99.876
-0.1	0.00077	513	665788	99.953
-0.2	0.00038	253	666041	99.991
-0.3	0.00008	56	666097	99.999

Station Information	
Station no.	214445
Station name	Werri Lagoon
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	301988
Northing	6155052

Summary Statistics	
Time interval (mins)	15
Start of record	09/08/2002
Highest water level recorded (m)	2.251
Date recorded	01/07/2005
Lowest water level recorded (m)	-0.429
Date recorded	21/01/2011







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-214445

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Werri Lagoon (214445)
FREQUENCY DISTRIBUTION ANALYSIS

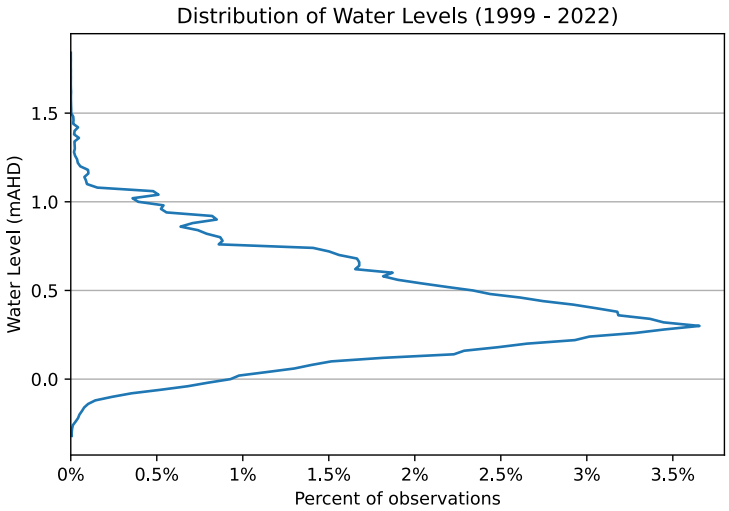
Manly Hydraulics Laboratory

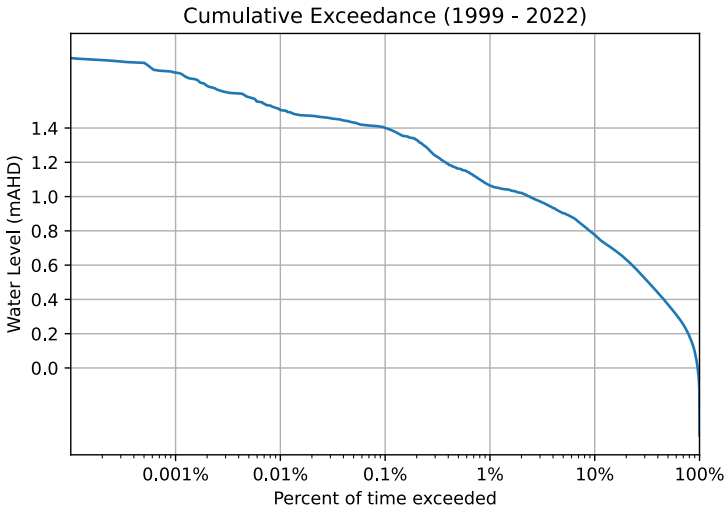
MHL2971
Figure
A237

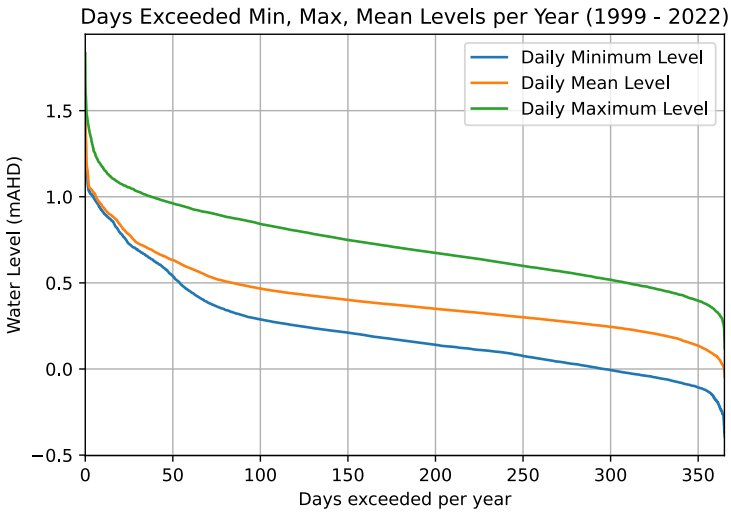
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00001	8	8	0.0009946
1.7	0.00003	26	34	0.0042271
1.6	0.00007	57	91	0.011314
1.5	0.00089	716	807	0.10033
1.4	0.00133	1068	1875	0.23311
1.3	0.00145	1163	3038	0.3777
1.2	0.00426	3423	6461	0.80327
1.1	0.01597	12846	19307	2.4004
1.0	0.02834	22798	42105	5.2347
0.9	0.03724	29955	72060	8.9589
0.8	0.05522	44416	116476	14.481
0.7	0.08231	66207	182683	22.712
0.6	0.09812	78919	261602	32.524
0.5	0.13055	105009	366611	45.579
0.4	0.16227	130520	497131	61.806
0.3	0.16331	131355	628486	78.137
0.2	0.11464	92208	720694	89.601
0.1	0.06332	50929	771623	95.932
0.0	0.03284	26417	798040	99.217
-0.1	0.00625	5029	803069	99.842
-0.2	0.00140	1125	804194	99.982
-0.3	0.00018	144	804338	100

Station Information	
Station no.	215410
Station name	Gerroa
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	299419
Northing	6150158

Summary Statistics	
Time interval (mins)	15
Start of record	04/02/1999
Highest water level recorded (m)	1.860
Date recorded	14/05/2010
Lowest water level recorded (m)	-0.340
Date recorded	08/11/1999







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215410

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Gerroa (215410)
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Manly Hydraulics Laboratory

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Figure
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STATION LOCATIONS
SHOALHAVEN RIVER REGION

Manly Hydraulics Laboratory

MHL2971

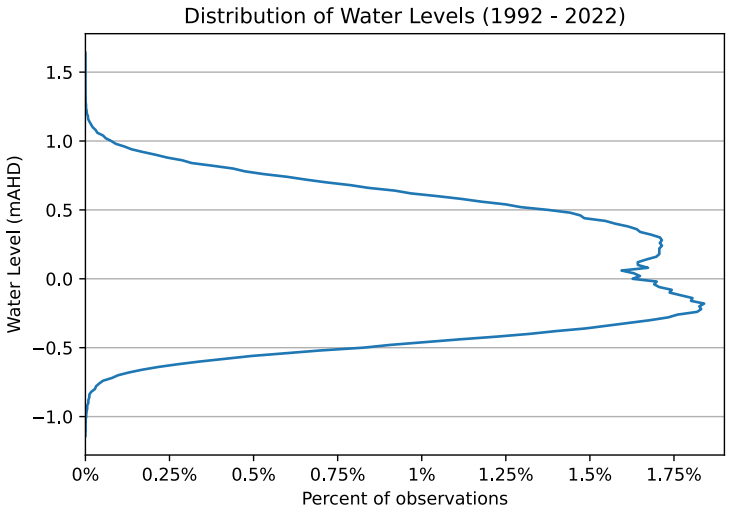
Figure

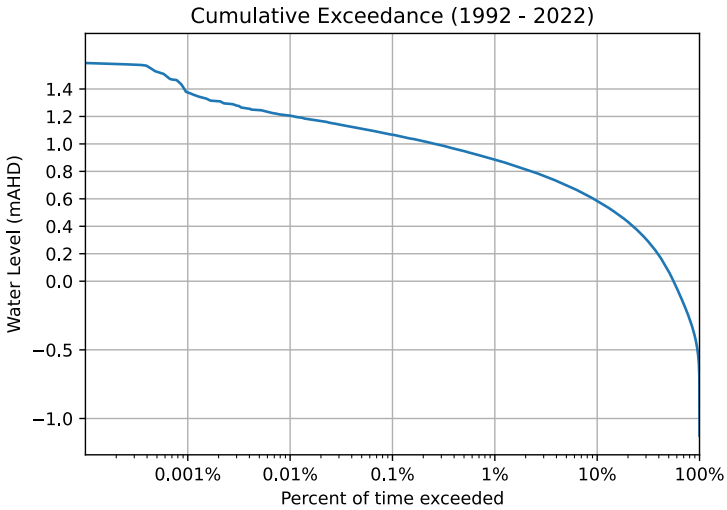
A239

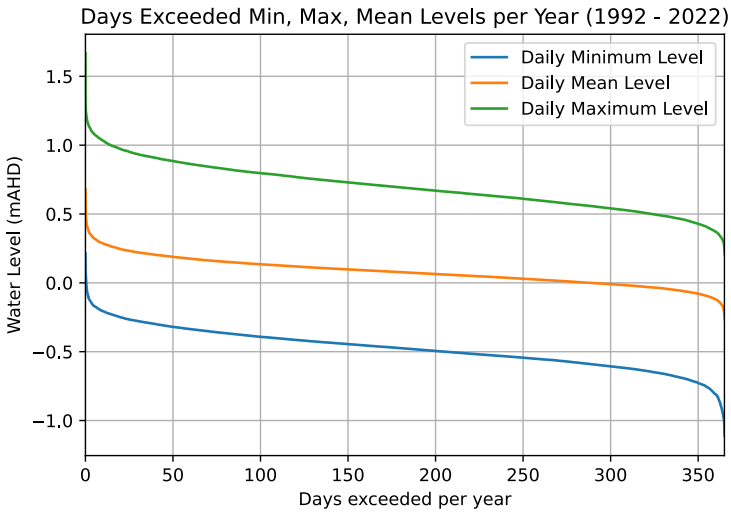
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00000	1	1	9.6445e-05
1.6	0.00001	6	7	0.00067512
1.5	0.00000	3	10	0.00096445
1.4	0.00001	13	23	0.0022182
1.3	0.00009	91	114	0.010995
1.2	0.00049	503	617	0.059507
1.1	0.00200	2076	2693	0.25973
1.0	0.00591	6132	8825	0.85113
0.9	0.01436	14894	23719	2.2876
0.8	0.02699	27981	51700	4.9862
0.7	0.04231	43874	95574	9.2176
0.6	0.05885	61019	156593	15.103
0.5	0.07318	75875	232468	22.42
0.4	0.08160	84608	317076	30.58
0.3	0.08551	88663	405739	39.132
0.2	0.08420	87303	493042	47.551
0.1	0.08189	84912	577954	55.741
0.0	0.08466	87783	665737	64.207
-0.1	0.08954	92841	758578	73.161
-0.2	0.08969	92991	851569	82.13
-0.3	0.07735	80197	931766	89.864
-0.4	0.05561	57662	989428	95.426
-0.5	0.03035	31470	1020898	98.461
-0.6	0.01130	11719	1032617	99.591
-0.7	0.00300	3113	1035730	99.891
-0.8	0.00078	806	1036536	99.969
-0.9	0.00026	266	1036802	99.995
-1.0	0.00005	51	1036853	99.999
-1.1	0.00001	6	1036859	100

Station Information	
Station no.	215408
Station name	Crookhaven Heads
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	295288
Northing	6135163

Summary Statistics	
Time interval (mins)	15
Start of record	10/03/1992
Highest water level recorded (m)	1.653
Date recorded	05/06/2016
Lowest water level recorded (m)	-1.160
Date recorded	15/07/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215408

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Crookhaven Heads (215408)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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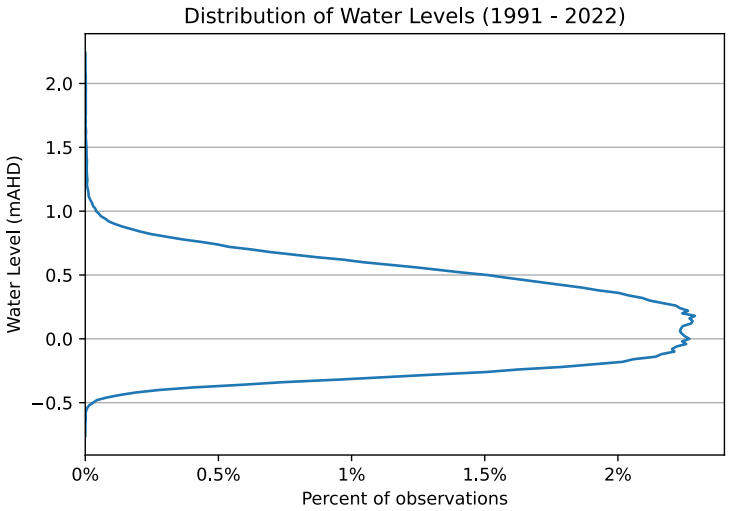
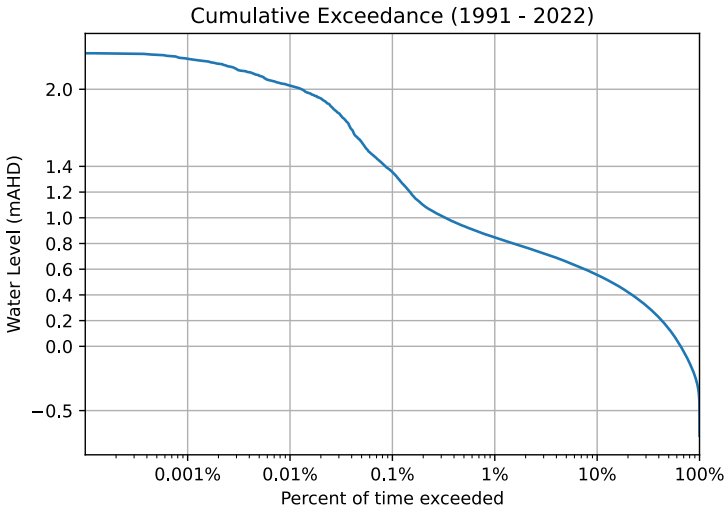
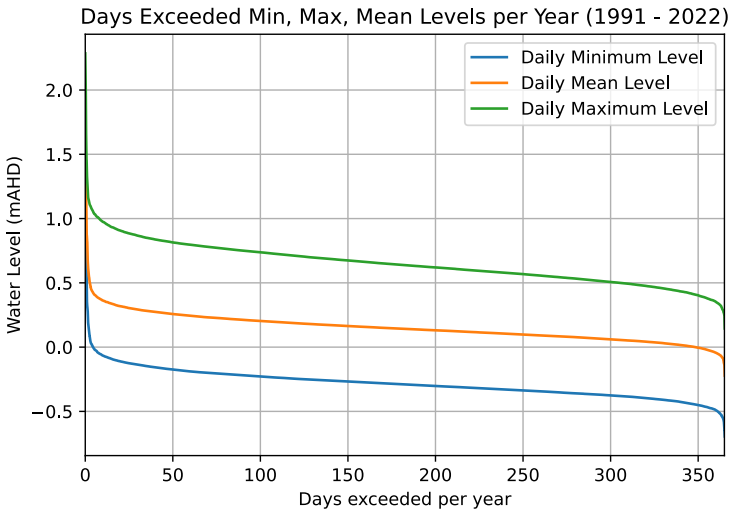
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00002	21	21	0.0019774
2.2	0.00003	35	56	0.0052731
2.1	0.00008	81	137	0.0129
2.0	0.00010	102	239	0.022505
1.9	0.00009	92	331	0.031168
1.8	0.00008	82	413	0.038889
1.7	0.00010	107	520	0.048965
1.6	0.00013	136	656	0.061771
1.5	0.00024	256	912	0.085877
1.4	0.00029	312	1224	0.11526
1.3	0.00033	355	1579	0.14868
1.2	0.00050	535	2114	0.19906
1.1	0.00130	1385	3499	0.32948
1.0	0.00315	3344	6843	0.64436
0.9	0.00876	9299	16142	1.52
0.8	0.02132	22643	38785	3.6521
0.7	0.03931	41742	80527	7.5827
0.6	0.06161	65424	145951	13.743
0.5	0.08251	87622	233573	21.994
0.4	0.09929	105443	339016	31.923
0.3	0.11003	116852	455868	42.926
0.2	0.11355	120594	576462	54.281
0.1	0.11205	118992	695454	65.486
0.0	0.11190	118833	814287	76.676
-0.1	0.10594	112504	926791	87.269
-0.2	0.08141	86459	1013250	95.411
-0.3	0.03804	40400	1053650	99.215
-0.4	0.00723	7682	1061332	99.938
-0.5	0.00057	608	1061940	99.995
-0.6	0.00005	48	1061988	100

Station Information	
Station no.	215470
Station name	Shoalhaven Heads
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	293877
Northing	6140761

Summary Statistics	
Time interval (mins)	15
Start of record	01/02/1991
Highest water level recorded (m)	2.260
Date recorded	26/06/2013
Lowest water level recorded (m)	-0.780
Date recorded	07/09/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215470

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Shoalhaven Heads (215470)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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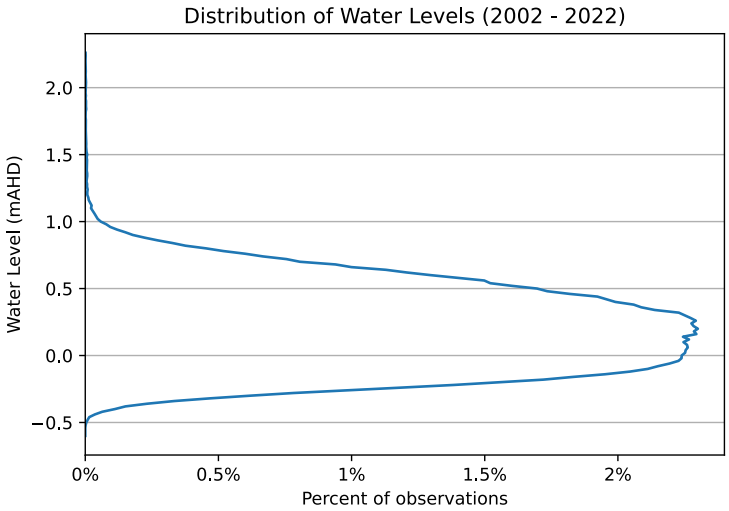
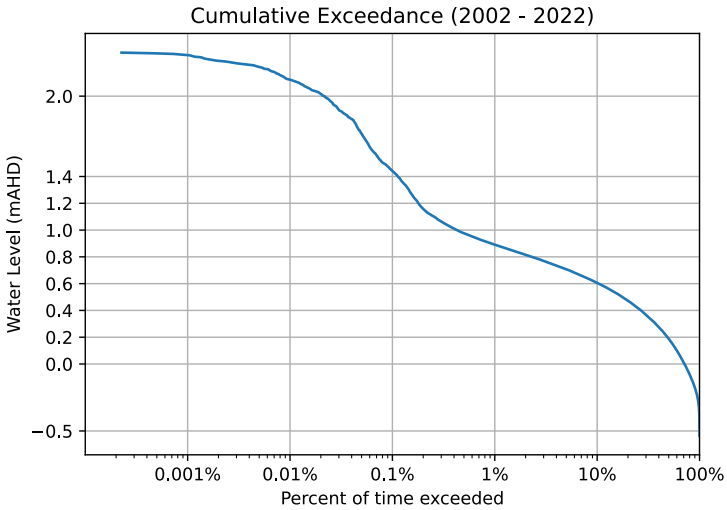
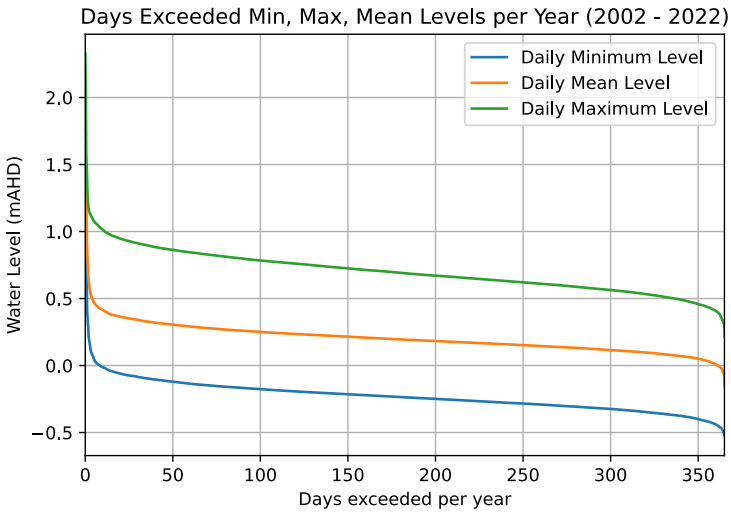
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00005	35	35	0.0051153
2.2	0.00006	41	76	0.011107
2.1	0.00009	64	140	0.020461
2.0	0.00008	56	196	0.028645
1.9	0.00014	93	289	0.042237
1.8	0.00008	58	347	0.050714
1.7	0.00011	76	423	0.061821
1.6	0.00019	127	550	0.080383
1.5	0.00032	219	769	0.11239
1.4	0.00032	217	986	0.1441
1.3	0.00035	237	1223	0.17874
1.2	0.00075	513	1736	0.25372
1.1	0.00171	1170	2906	0.42471
1.0	0.00501	3428	6334	0.92571
0.9	0.01376	9414	15748	2.3016
0.8	0.02994	20489	36237	5.296
0.7	0.05081	34763	71000	10.377
0.6	0.07318	50070	121070	17.694
0.5	0.09129	62462	183532	26.823
0.4	0.10505	71875	255407	37.328
0.3	0.11376	77838	333245	48.704
0.2	0.11392	77945	411190	60.095
0.1	0.11275	77145	488335	71.37
0.0	0.11050	75607	563942	82.42
-0.1	0.09661	66100	630042	92.081
-0.2	0.05875	40195	670237	97.955
-0.3	0.01803	12339	682576	99.759
-0.4	0.00235	1608	684184	99.994
-0.5	0.00005	36	684220	99.999

Station Information	
Station no.	215415
Station name	Hay Street
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	292468
Northing	6140163

Summary Statistics	
Time interval (mins)	15
Start of record	18/01/2002
Highest water level recorded (m)	2.271
Date recorded	26/06/2013
Lowest water level recorded (m)	-0.620
Date recorded	04/01/2007







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215415

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Hay Street (215415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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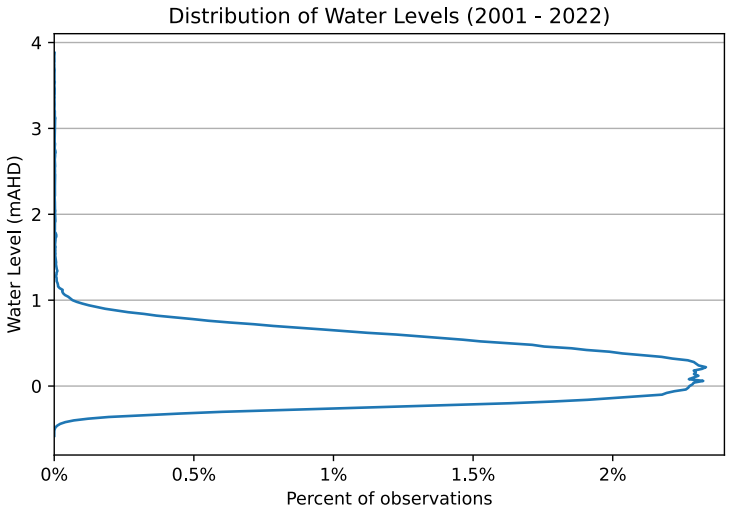
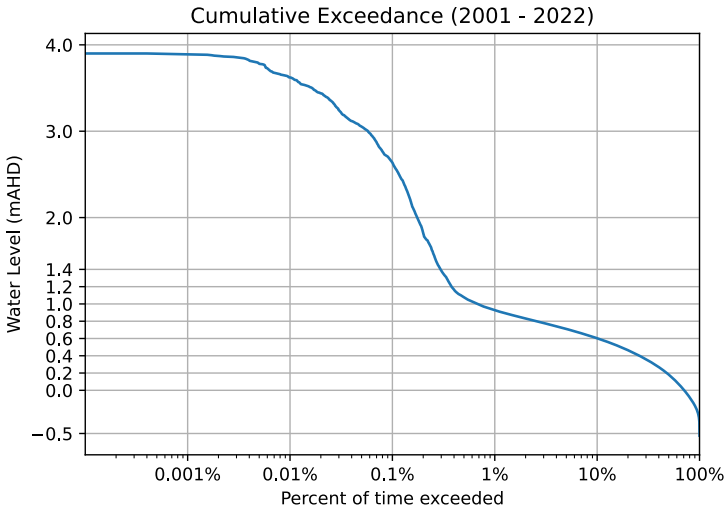
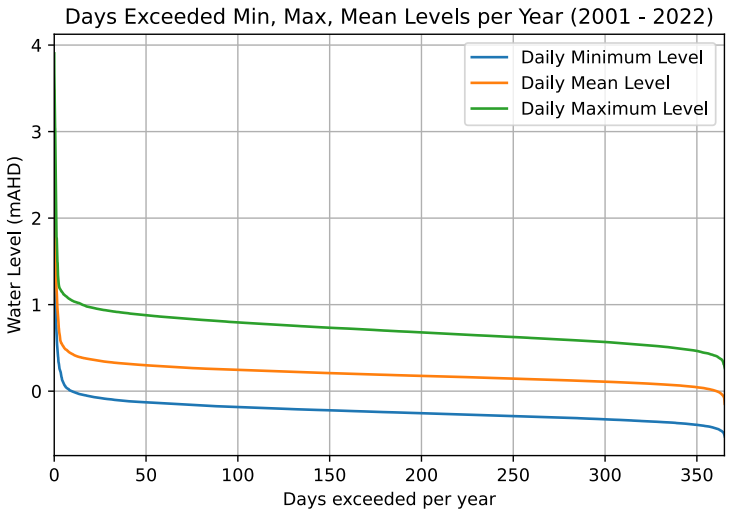
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.9	0.00006	41	41	0.0059436
3.7	0.00010	70	111	0.016091
3.5	0.00011	76	187	0.027109
3.3	0.00016	109	296	0.04291
3.1	0.00024	168	464	0.067264
2.9	0.00023	160	624	0.090459
2.7	0.00025	172	796	0.11539
2.5	0.00024	167	963	0.1396
2.3	0.00021	142	1105	0.16019
2.1	0.00031	213	1318	0.19107
1.9	0.00037	253	1571	0.22774
1.7	0.00039	266	1837	0.2663
1.5	0.00072	498	2335	0.3385
1.3	0.00128	882	3217	0.46636
1.1	0.00730	5035	8252	1.1963
0.9	0.04177	28817	37069	5.3738
0.7	0.11677	80550	117619	17.051
0.5	0.19360	133547	251166	36.411
0.3	0.23005	158690	409856	59.415
0.1	0.22684	156478	566334	82.099
-0.1	0.16063	110803	677137	98.162
-0.3	0.01835	12661	689798	99.998
-0.5	0.00002	14	689812	100

Station Information	
Station no.	215420
Station name	Terara
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	283258
Northing	6139535

Summary Statistics	
Time interval (mins)	15
Start of record	10/08/2001
Highest water level recorded (m)	3.890
Date recorded	10/08/2020
Lowest water level recorded (m)	-0.605
Date recorded	23/07/2004







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215420

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Terara (215420)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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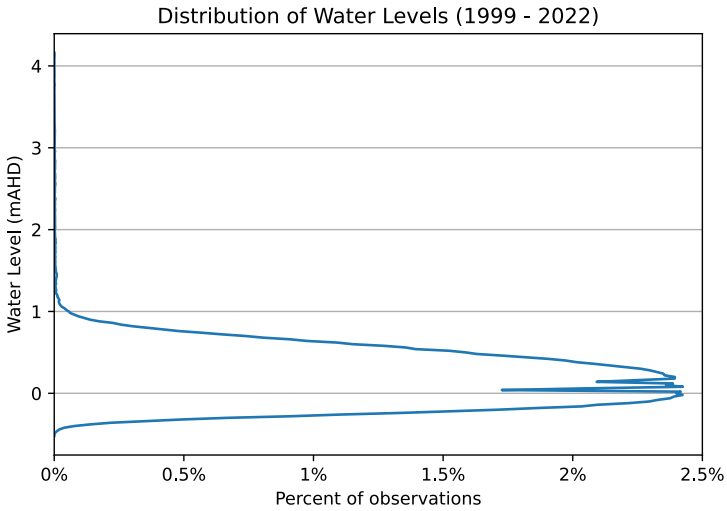
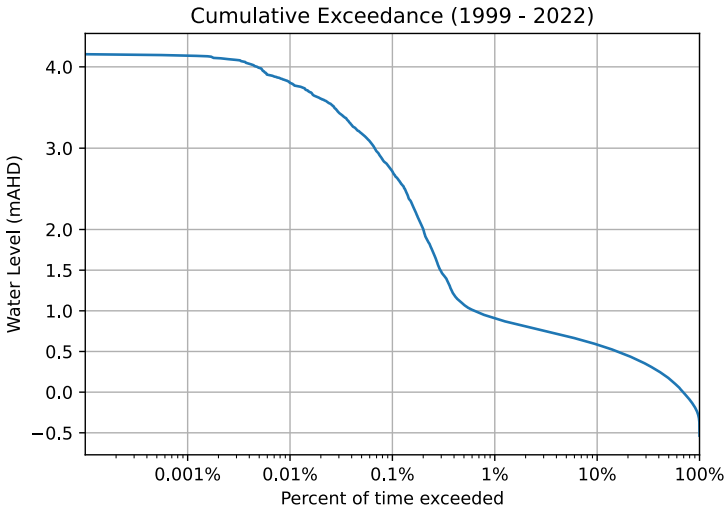
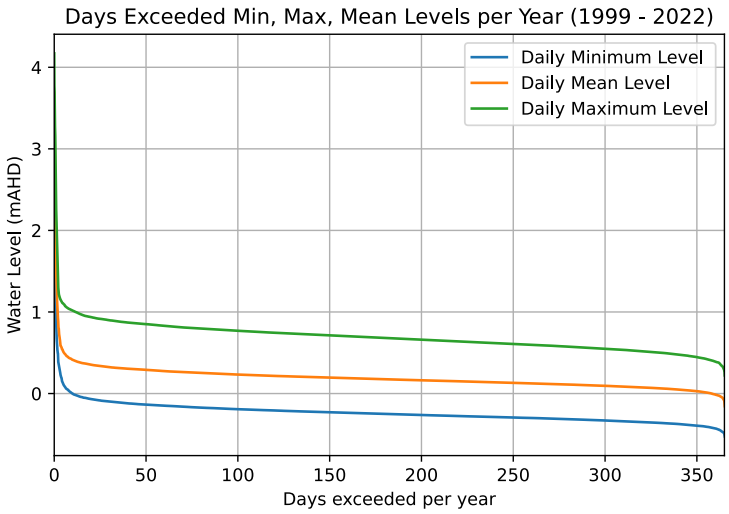
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
4.3	0.00002	18	18	0.0023256
4.1	0.00004	31	49	0.0063309
3.9	0.00009	68	117	0.015117
3.7	0.00012	92	209	0.027003
3.5	0.00012	94	303	0.039148
3.3	0.00019	149	452	0.058399
3.1	0.00018	140	592	0.076487
2.9	0.00025	192	784	0.10129
2.7	0.00030	236	1020	0.13179
2.5	0.00026	198	1218	0.15737
2.3	0.00027	209	1427	0.18437
2.1	0.00028	219	1646	0.21267
1.9	0.00042	327	1973	0.25491
1.7	0.00039	303	2276	0.29406
1.5	0.00070	543	2819	0.36422
1.3	0.00110	852	3671	0.4743
1.1	0.00562	4349	8020	1.0362
0.9	0.03572	27648	35668	4.6084
0.7	0.11216	86807	122475	15.824
0.5	0.19100	147834	270309	34.924
0.3	0.23093	178733	449042	58.017
0.1	0.22891	177170	626212	80.908
-0.1	0.17081	132206	758418	97.989
-0.3	0.02010	15558	773976	99.999
-0.5	0.00001	9	773985	100

Station Information	
Station no.	215411
Station name	Nowra Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	280834
Northing	6139287

Summary Statistics	
Time interval (mins)	15
Start of record	01/10/1999
Highest water level recorded (m)	4.167
Date recorded	10/08/2020
Lowest water level recorded (m)	-0.540
Date recorded	01/07/2004







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215411

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Nowra Bridge (215411)
FREQUENCY DISTRIBUTION ANALYSIS

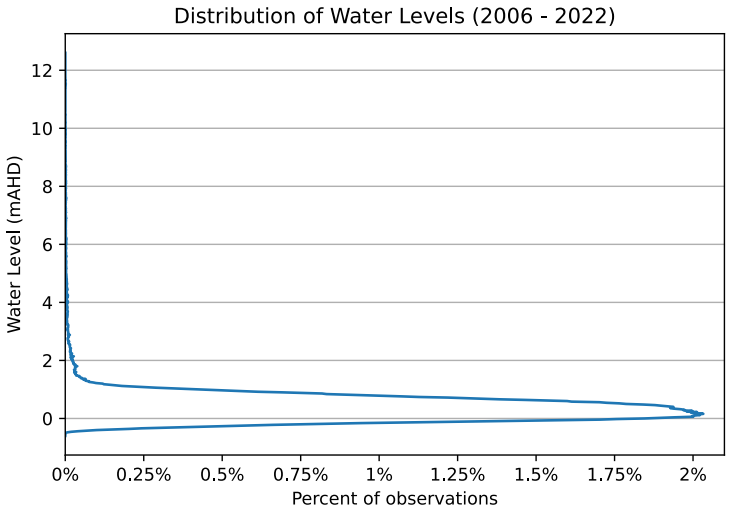
Manly Hydraulics Laboratory

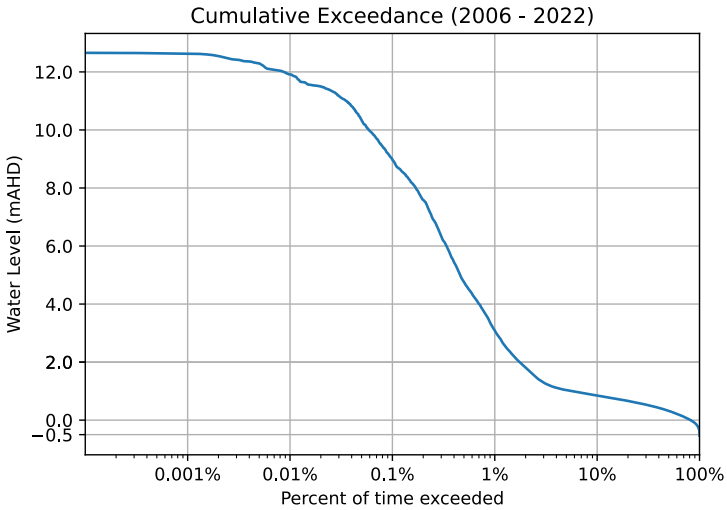
MHL2971
Figure
A244

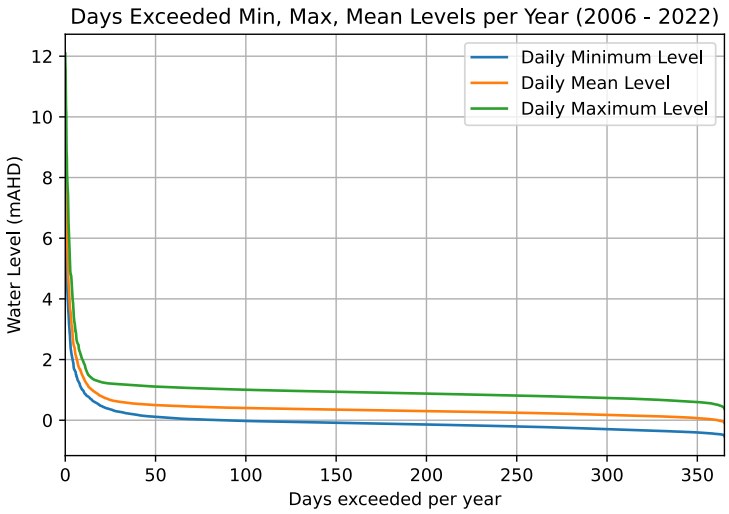
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
12.7	0.00005	26	26	0.004893
12.3	0.00006	30	56	0.010539
11.9	0.00010	51	107	0.020136
11.5	0.00012	62	169	0.031804
11.1	0.00011	60	229	0.043096
10.7	0.00008	41	270	0.050812
10.3	0.00012	66	336	0.063232
9.9	0.00014	75	411	0.077347
9.5	0.00016	87	498	0.093719
9.1	0.00020	104	602	0.11329
8.7	0.00032	171	773	0.14547
8.3	0.00031	167	940	0.1769
7.9	0.00035	185	1125	0.21171
7.5	0.00025	132	1257	0.23656
7.1	0.00035	184	1441	0.27118
6.7	0.00032	169	1610	0.30299
6.3	0.00045	241	1851	0.34834
5.9	0.00045	240	2091	0.39351
5.5	0.00051	273	2364	0.44488
5.1	0.00066	353	2717	0.51131
4.7	0.00101	536	3253	0.61219
4.3	0.00121	645	3898	0.73357
3.9	0.00130	690	4588	0.86342
3.5	0.00132	704	5292	0.99591
3.1	0.00183	970	6262	1.1785
2.7	0.00275	1460	7722	1.4532
2.3	0.00411	2182	9904	1.8638
1.9	0.00622	3303	13207	2.4854
1.5	0.01631	8669	21876	4.1169
1.1	0.13386	71131	93007	17.503
0.7	0.34402	182805	275812	51.905
0.3	0.38187	202918	478730	90.093
-0.1	0.09906	52636	531366	99.998
-0.5	0.00002	9	531375	100

Station Information	
Station no.	215430
Station name	Gradys Caravan Park
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	268094
Northing	6138339

Summary Statistics	
Time interval (mins)	15
Start of record	10/02/2006
Highest water level recorded (m)	12.620
Date recorded	10/08/2020
Lowest water level recorded (m)	-0.617
Date recorded	23/11/2018







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215430

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Gradys Caravan Park (215430)
FREQUENCY DISTRIBUTION ANALYSIS

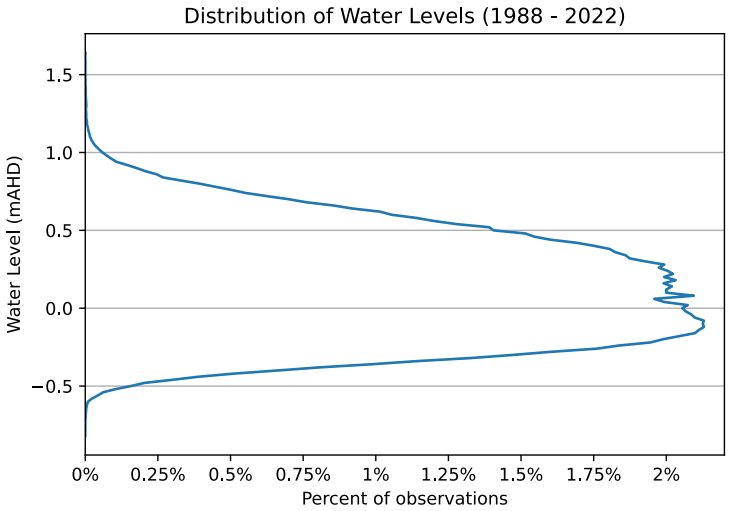
Manly Hydraulics Laboratory

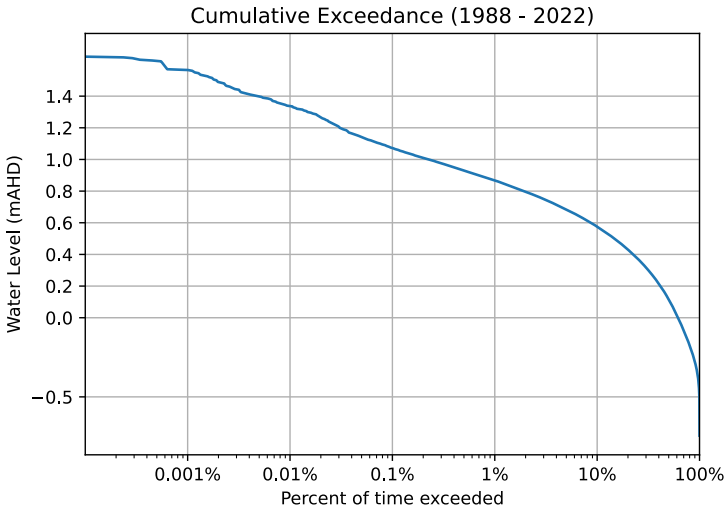
MHL2971
Figure
A245

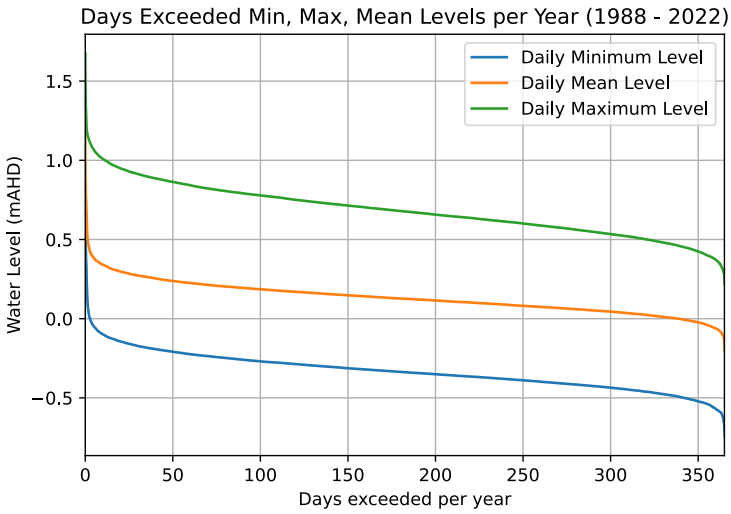
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00001	7	7	0.000635
1.6	0.00001	15	22	0.0019957
1.5	0.00003	31	53	0.0048079
1.4	0.00010	110	163	0.014786
1.3	0.00016	174	337	0.030571
1.2	0.00046	502	839	0.076109
1.1	0.00150	1649	2488	0.2257
1.0	0.00474	5223	7711	0.6995
0.9	0.01226	13512	21223	1.9252
0.8	0.02518	27754	48977	4.4429
0.7	0.04249	46840	95817	8.692
0.6	0.06061	66813	162630	14.753
0.5	0.07757	85506	248136	22.51
0.4	0.09115	100481	348617	31.625
0.3	0.09924	109401	458018	41.549
0.2	0.10034	110615	568633	51.583
0.1	0.10119	111545	680178	61.702
0.0	0.10435	115031	795209	72.137
-0.1	0.10509	115847	911056	82.646
-0.2	0.09134	100695	1011751	91.78
-0.3	0.05736	63234	1074985	97.517
-0.4	0.02069	22812	1097797	99.586
-0.5	0.00390	4295	1102092	99.976
-0.6	0.00023	254	1102346	99.999
-0.7	0.00001	15	1102361	100

Station Information	
Station no.	215417
Station name	Greenwell Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	293199
Northing	6134901

Summary Statistics	
Time interval (mins)	15
Start of record	02/12/1988
Highest water level recorded (m)	1.656
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.840
Date recorded	07/09/1991







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215417

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Greenwell Point (215417)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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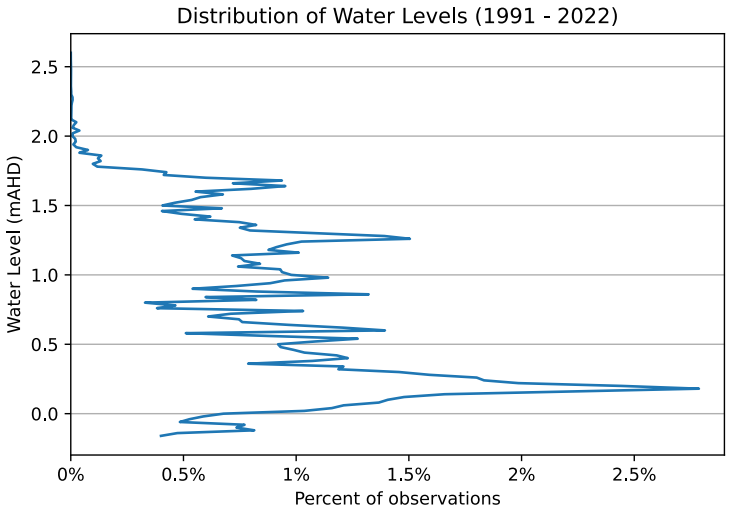
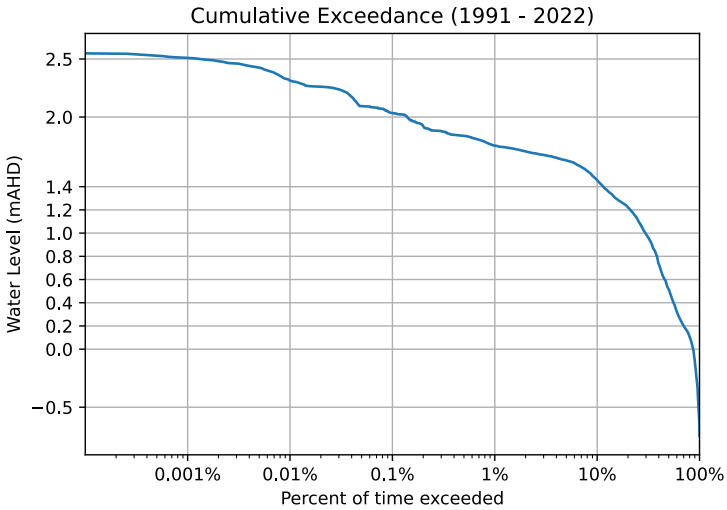
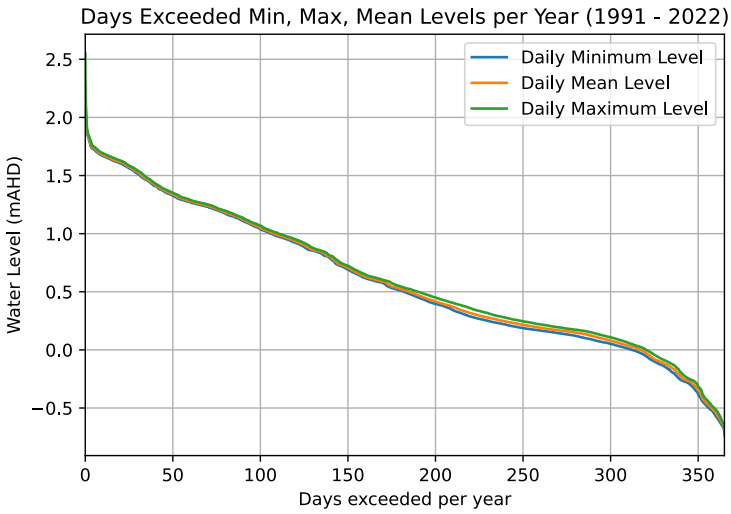
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.6	0.00001	14	14	0.0013509
2.5	0.00005	49	63	0.0060789
2.4	0.00006	59	122	0.011772
2.3	0.00025	263	385	0.037149
2.2	0.00010	104	489	0.047184
2.1	0.00093	964	1453	0.1402
2.0	0.00085	882	2335	0.2253
1.9	0.00503	5213	7548	0.72831
1.8	0.01368	14175	21723	2.0961
1.7	0.04007	41523	63246	6.1026
1.6	0.02804	29055	92301	8.9061
1.5	0.02591	26857	119158	11.498
1.4	0.03665	37986	157144	15.163
1.3	0.05972	61892	219036	21.135
1.2	0.04273	44282	263318	25.408
1.1	0.04219	43725	307043	29.627
1.0	0.04689	48593	355636	34.315
0.9	0.04110	42592	398228	38.425
0.8	0.02917	30226	428454	41.342
0.7	0.04287	44434	472888	45.629
0.6	0.05137	53242	526130	50.766
0.5	0.05055	52389	578519	55.821
0.4	0.05485	56844	635363	61.306
0.3	0.08667	89820	725183	69.973
0.2	0.10603	109888	835071	80.576
0.1	0.06178	64030	899101	86.754
0.0	0.03047	31579	930680	89.801
-0.1	0.02785	28866	959546	92.587
-0.2	0.02561	26539	986085	95.147
-0.3	0.01197	12406	998491	96.344
-0.4	0.01604	16623	1015114	97.948
-0.5	0.01327	13748	1028862	99.275
-0.6	0.00708	7338	1036200	99.983
-0.7	0.00017	177	1036377	100

Station Information	
Station no.	215454
Station name	Wollumboola
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	295853
Northing	6131507

Summary Statistics	
Time interval (mins)	15
Start of record	23/07/1991
Highest water level recorded (m)	2.620
Date recorded	25/08/2015
Lowest water level recorded (m)	-0.180
Date recorded	10/01/2020







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-215454

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Wollumboola (215454)
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Figure
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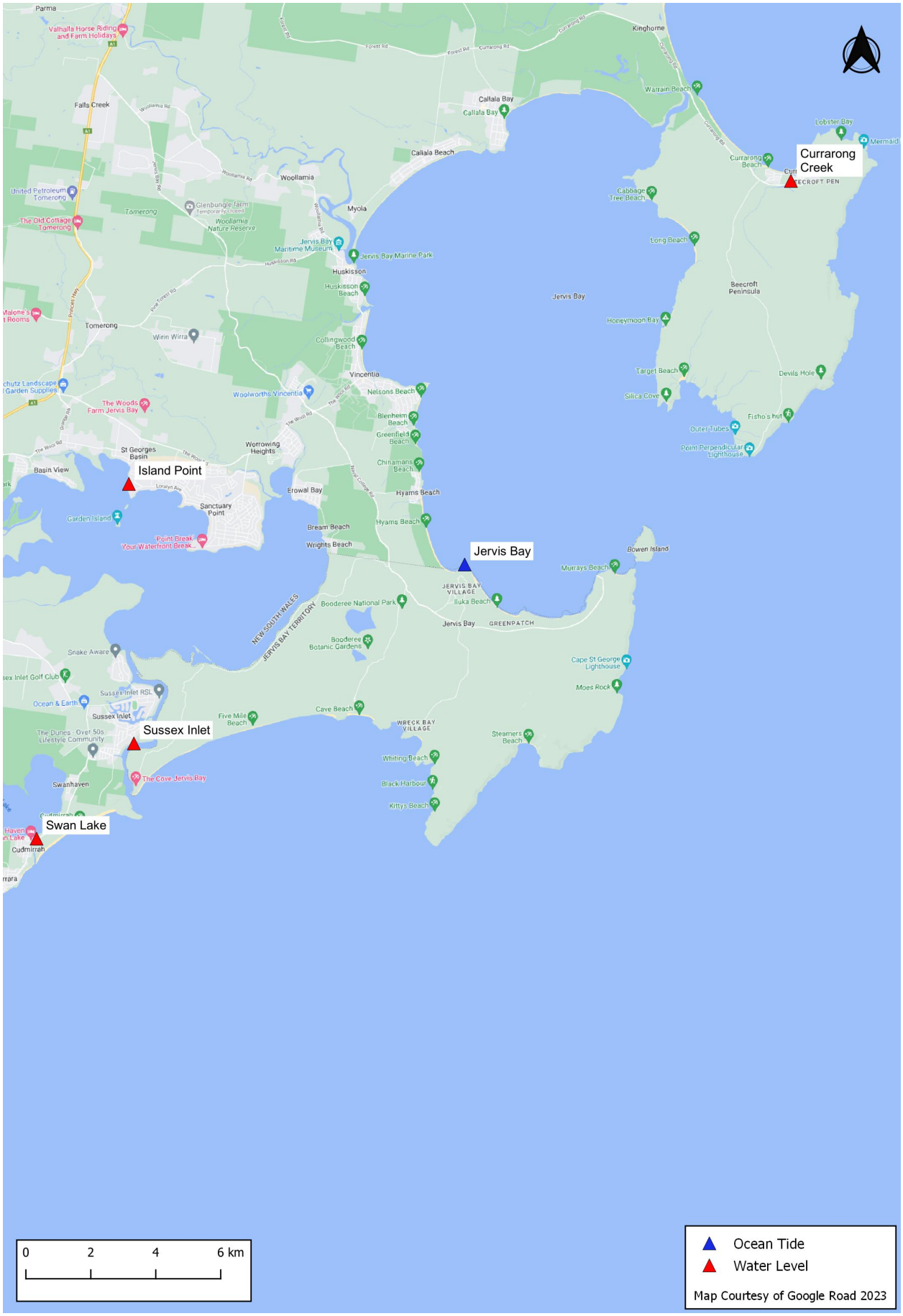

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STATION LOCATIONS
JERVIS BAY REGION

Manly Hydraulics Laboratory

MHL2971
Figure
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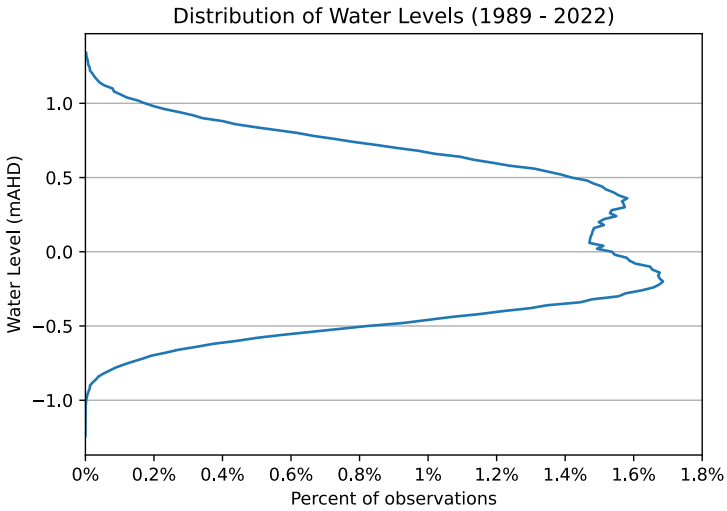
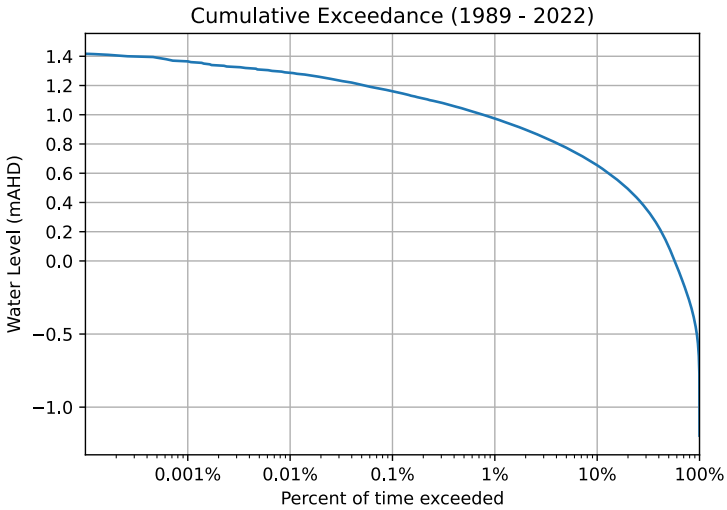
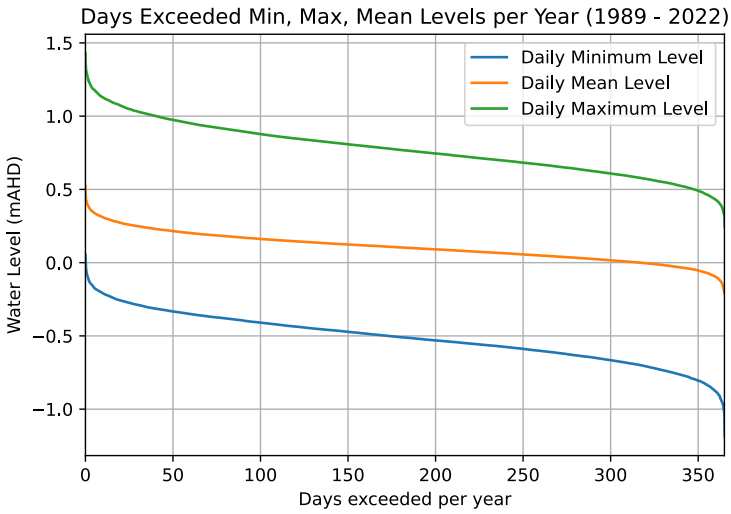
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00006	71	71	0.0064423
1.3	0.00047	514	585	0.053081
1.2	0.00178	1957	2542	0.23065
1.1	0.00536	5907	8449	0.76663
1.0	0.01195	13171	21620	1.9617
0.9	0.02228	24551	46171	4.1894
0.8	0.03644	40155	86326	7.8329
0.7	0.05125	56487	142813	12.958
0.6	0.06473	71340	214153	19.431
0.5	0.07392	81464	295617	26.823
0.4	0.07816	86141	381758	34.639
0.3	0.07703	84897	466655	42.343
0.2	0.07454	82152	548807	49.797
0.1	0.07422	81802	630609	57.219
0.0	0.07855	86564	717173	65.074
-0.1	0.08325	91754	808927	73.399
-0.2	0.08218	90575	899502	81.618
-0.3	0.07126	78536	978038	88.744
-0.4	0.05353	58997	1037035	94.097
-0.5	0.03295	36314	1073349	97.392
-0.6	0.01646	18135	1091484	99.037
-0.7	0.00697	7678	1099162	99.734
-0.8	0.00214	2362	1101524	99.948
-0.9	0.00045	500	1102024	99.994
-1.0	0.00005	55	1102079	99.999
-1.1	0.00001	12	1102091	100

Station Information	
Station no.	216470
Station name	Jervis Bay
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	291092
Northing	6111027

Summary Statistics	
Time interval (mins)	15
Start of record	04/09/1989
Highest water level recorded (m)	1.360
Date recorded	19/08/2001
Lowest water level recorded (m)	-1.260
Date recorded	24/12/1999







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216470

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Jervis Bay (216470)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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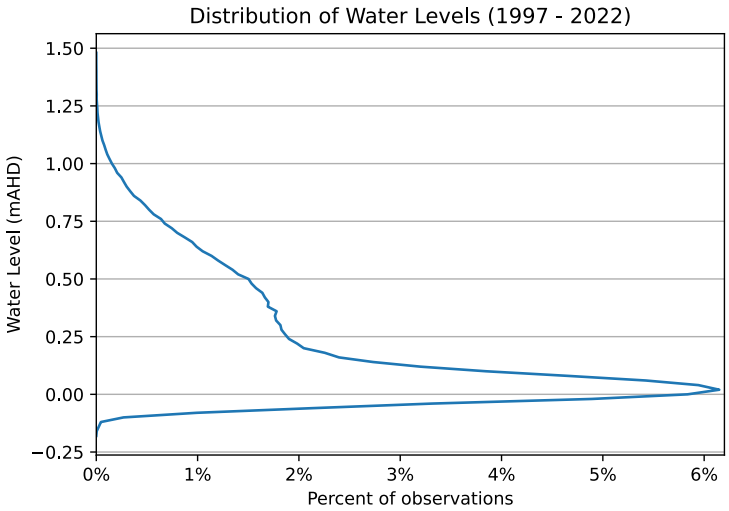
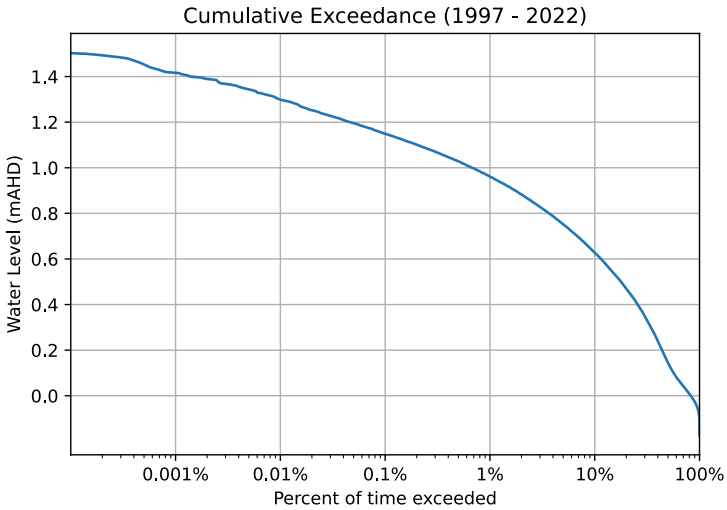
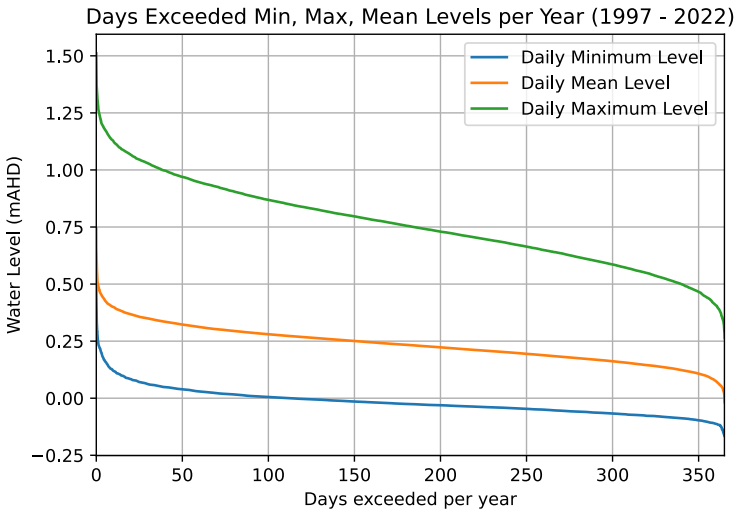
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00001	10	10	0.0011533
1.4	0.00009	74	84	0.0096879
1.3	0.00036	315	399	0.046017
1.2	0.00157	1359	1758	0.20275
1.1	0.00470	4077	5835	0.67296
1.0	0.01065	9232	15067	1.7377
0.9	0.01924	16678	31745	3.6612
0.8	0.03148	27292	59037	6.8088
0.7	0.04658	40392	99429	11.467
0.6	0.06357	55118	154547	17.824
0.5	0.07915	68632	223179	25.74
0.4	0.08711	75527	298706	34.45
0.3	0.09393	81446	380152	43.844
0.2	0.12631	109515	489667	56.474
0.1	0.26017	225588	715255	82.492
0.0	0.17165	148834	864089	99.657
-0.1	0.00343	2974	867063	100

Station Information	
Station no.	216405
Station name	Currarong Creek
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	301142
Northing	6122850

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1997
Highest water level recorded (m)	1.488
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.200
Date recorded	21/01/2009







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216405

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Currarong Creek (216405)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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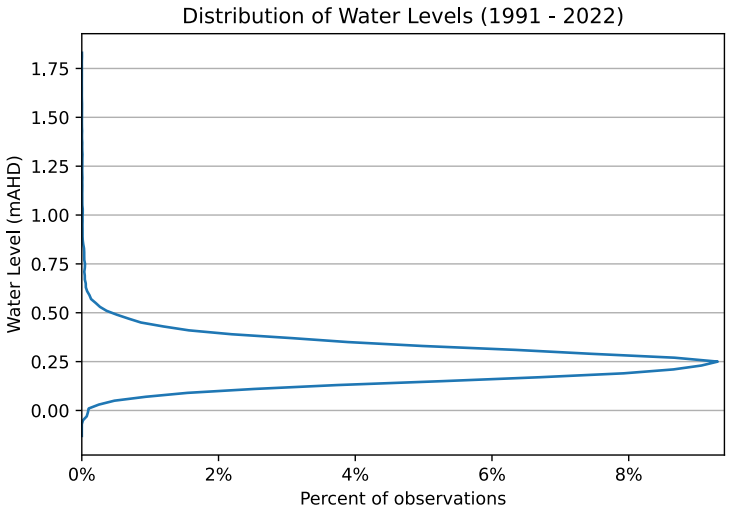
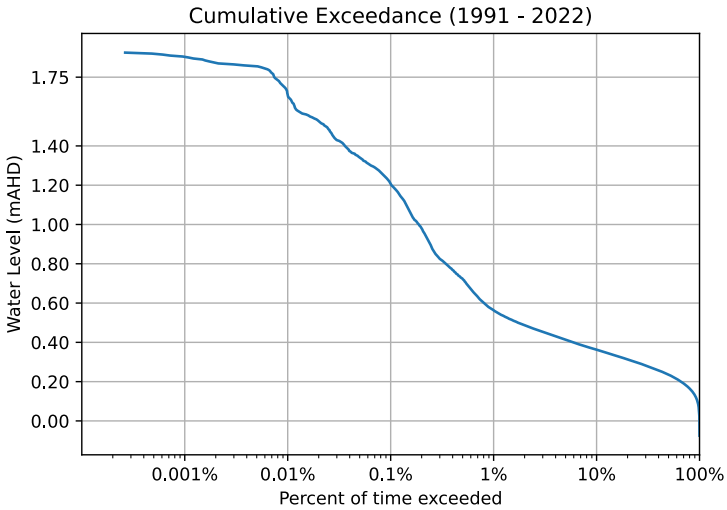
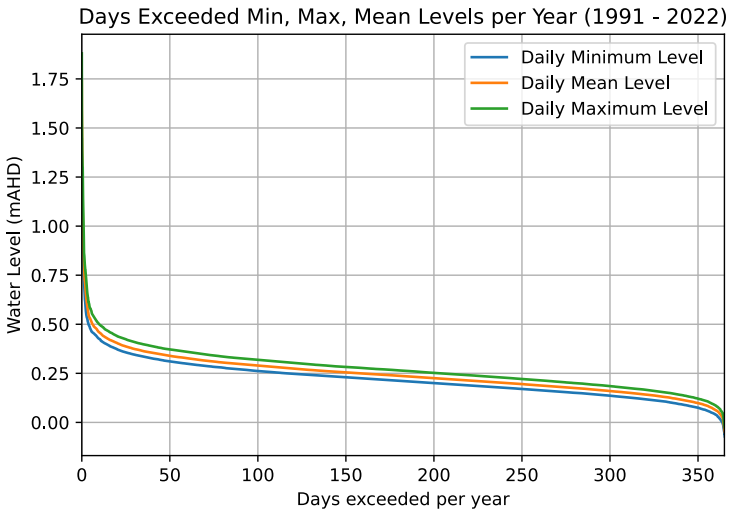
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.9	0.00006	58	58	0.0055962
1.8	0.00004	38	96	0.0092626
1.7	0.00003	26	122	0.011771
1.6	0.00012	120	242	0.023349
1.5	0.00013	131	373	0.035989
1.4	0.00028	295	668	0.064452
1.3	0.00037	387	1055	0.10179
1.2	0.00041	420	1475	0.14232
1.1	0.00046	472	1947	0.18786
1.0	0.00054	563	2510	0.24218
0.9	0.00101	1050	3560	0.34349
0.8	0.00199	2058	5618	0.54206
0.7	0.00261	2705	8323	0.80305
0.6	0.00923	9566	17889	1.726
0.5	0.04167	43191	61080	5.8933
0.4	0.18018	186739	247819	23.911
0.3	0.42235	437733	685552	66.146
0.2	0.29251	303170	988722	95.397
0.1	0.04383	45429	1034151	99.78
0.0	0.00220	2275	1036426	100

Station Information	
Station no.	216415
Station name	Island Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	280748
Northing	6113511

Summary Statistics	
Time interval (mins)	15
Start of record	23/07/1991
Highest water level recorded (m)	1.853
Date recorded	26/08/2015
Lowest water level recorded (m)	-0.150
Date recorded	20/09/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216415

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Island Point (216415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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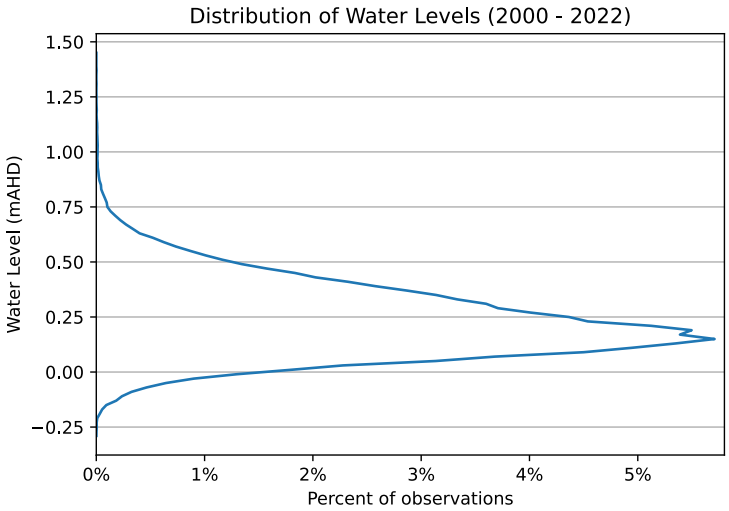
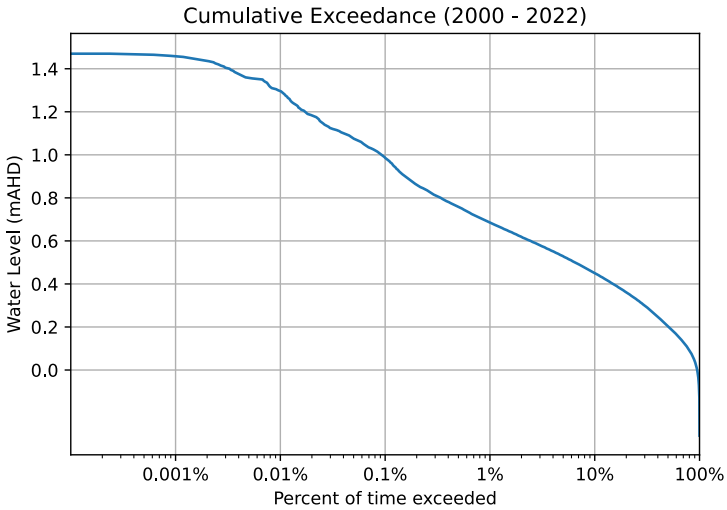
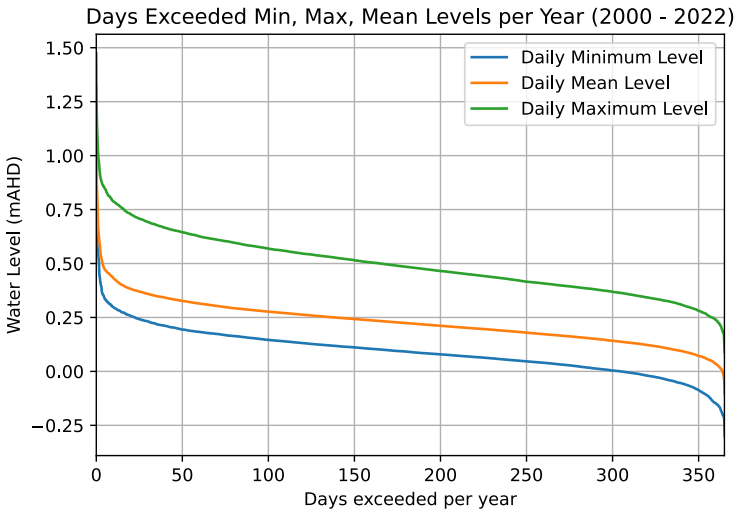
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00003	25	25	0.0034065
1.4	0.00006	45	70	0.0095381
1.3	0.00008	56	126	0.017169
1.2	0.00023	170	296	0.040332
1.1	0.00052	384	680	0.092656
1.0	0.00063	459	1139	0.1552
0.9	0.00184	1352	2491	0.33942
0.8	0.00527	3871	6362	0.86687
0.7	0.01577	11577	17939	2.4443
0.6	0.04046	29690	47629	6.4898
0.5	0.08485	62274	109903	14.975
0.4	0.14897	109326	219229	29.872
0.3	0.20947	153728	372957	50.818
0.2	0.27172	199417	572374	77.991
0.1	0.16998	124745	697119	94.988
0.0	0.04238	31104	728223	99.226
-0.1	0.00742	5444	733667	99.968
-0.2	0.00032	233	733900	100
-0.3	0.00000	1	733901	100

Station Information	
Station no.	216412
Station name	Sussex Inlet
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	280903
Northing	6105512

Summary Statistics	
Time interval (mins)	15
Start of record	29/11/2000
Highest water level recorded (m)	1.466
Date recorded	26/08/2015
Lowest water level recorded (m)	-0.309
Date recorded	10/10/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216412

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Sussex Inlet (216412)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

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Figure
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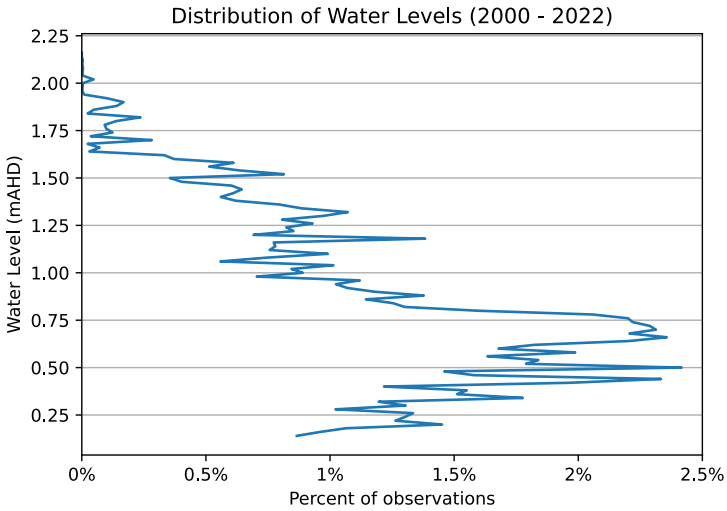
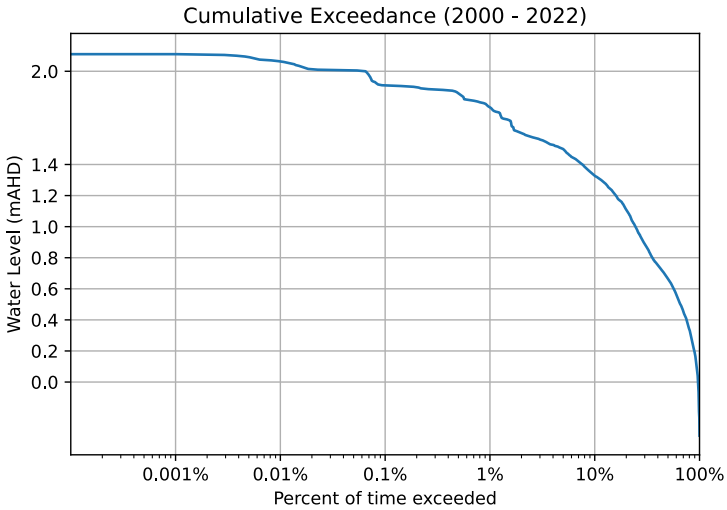
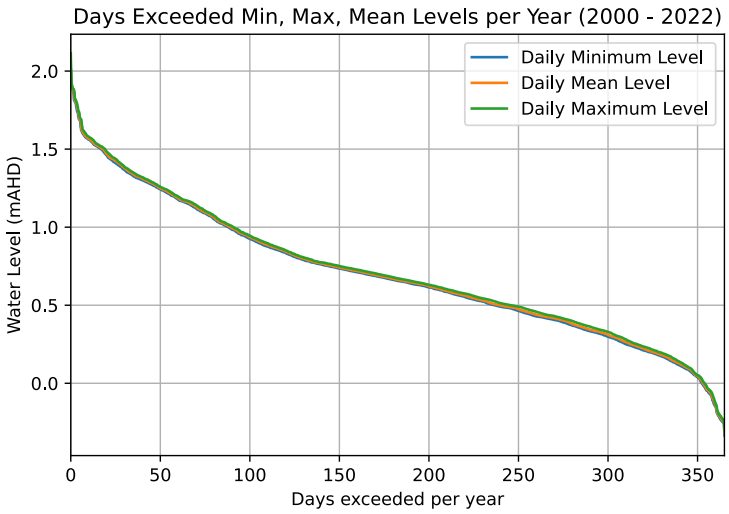
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00061	479	479	0.060919
2.0	0.00122	959	1438	0.18288
1.9	0.00617	4855	6293	0.80034
1.8	0.00489	3845	10138	1.2893
1.7	0.00741	5826	15964	2.0303
1.6	0.02945	23155	39119	4.9751
1.5	0.02614	20555	59674	7.5893
1.4	0.03933	30923	90597	11.522
1.3	0.04386	34484	125081	15.908
1.2	0.04384	34474	159555	20.292
1.1	0.04154	32663	192218	24.446
1.0	0.04808	37804	230022	29.254
0.9	0.06256	49192	279214	35.51
0.8	0.10363	81481	360695	45.873
0.7	0.10901	85712	446407	56.774
0.6	0.08930	70214	516621	65.704
0.5	0.09756	76709	593330	75.46
0.4	0.07253	57026	650356	82.712
0.3	0.06227	48961	699317	88.939
0.2	0.05152	40511	739828	94.091
0.1	0.02607	20495	760323	96.698
0.0	0.01492	11728	772051	98.189
-0.1	0.00839	6598	778649	99.028
-0.2	0.00910	7159	785808	99.939
-0.3	0.00057	450	786258	99.996

Station Information	
Station no.	216425
Station name	Swan Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	277905
Northing	6102577

Summary Statistics	
Time interval (mins)	15
Start of record	04/01/2000
Highest water level recorded (m)	2.178
Date recorded	24/06/2013
Lowest water level recorded (m)	0.117
Date recorded	22/03/2014







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216425

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Swan Lake (216425)
FREQUENCY DISTRIBUTION ANALYSIS

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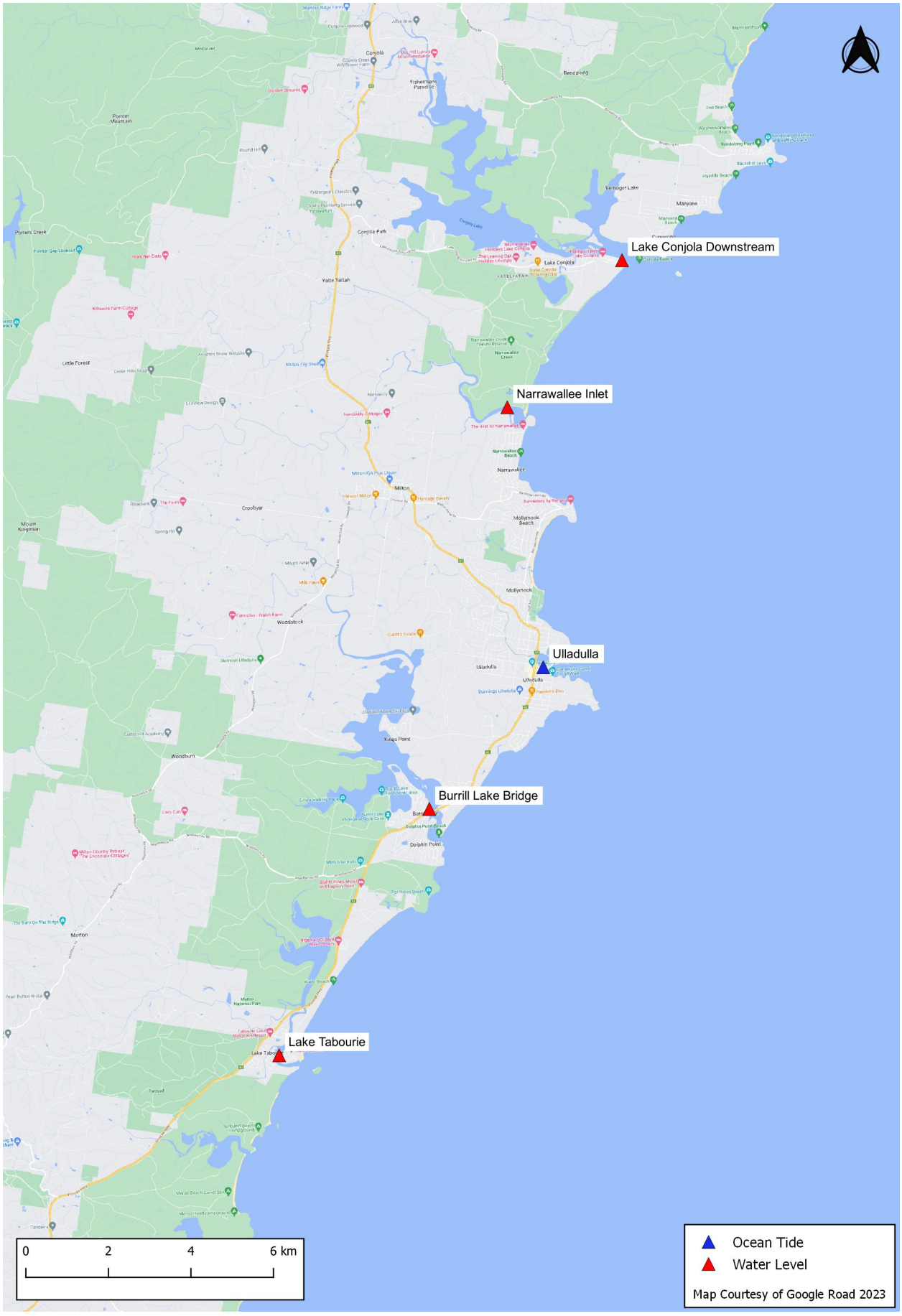
MHL2971
Figure
A253



NSW GOVERNMENT

STATION LOCATIONS
ULLADULLA REGION

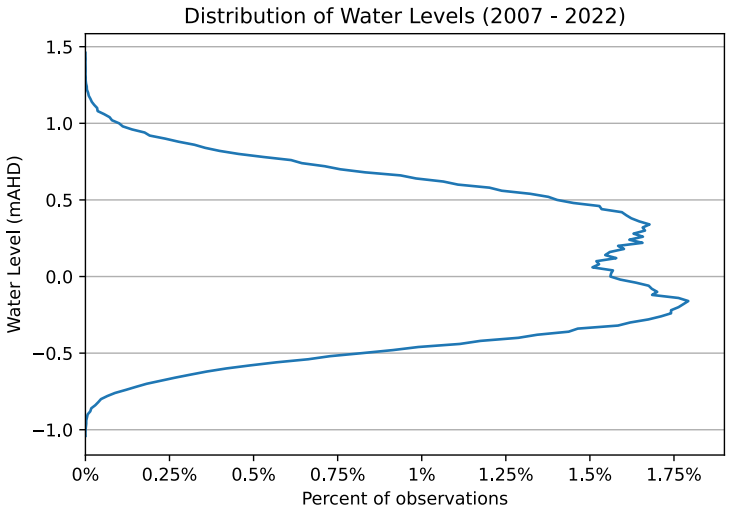
Manly Hydraulics Laboratory

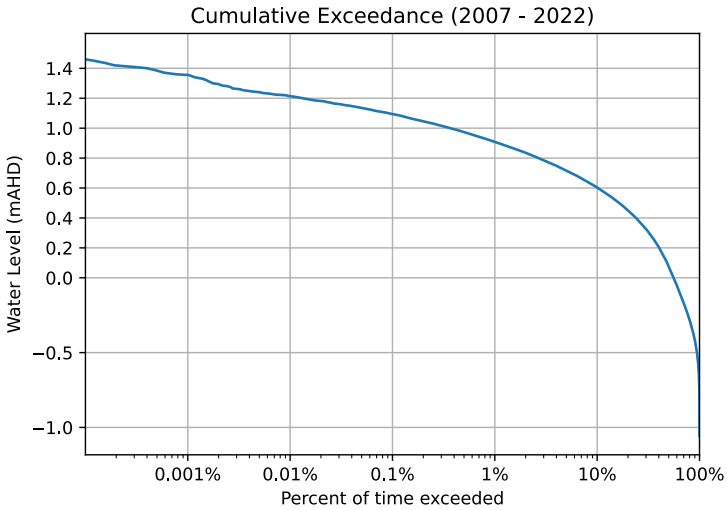
MHL2971
Figure
A254

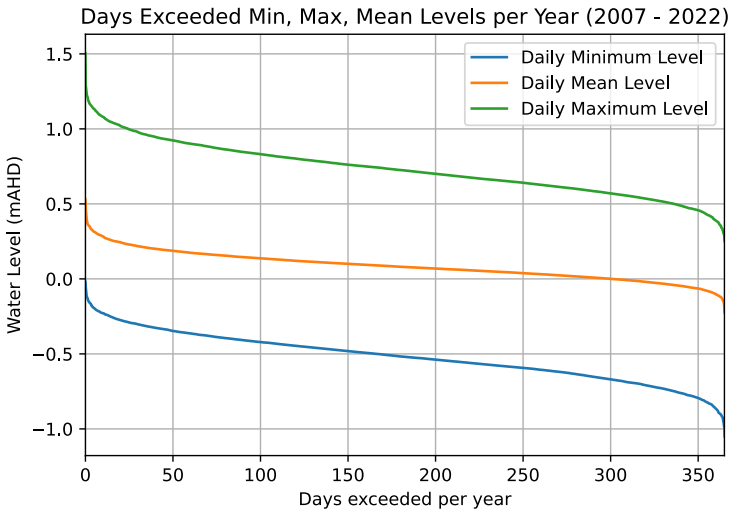
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.5	0.00000	2	2	0.00039584
1.4	0.00001	6	8	0.0015834
1.3	0.00012	59	67	0.013261
1.2	0.00078	393	460	0.091044
1.1	0.00277	1401	1861	0.36833
1.0	0.00717	3622	5483	1.0852
0.9	0.01593	8047	13530	2.6779
0.8	0.02952	14916	28446	5.6301
0.7	0.04574	23109	51555	10.204
0.6	0.06246	31557	83112	16.45
0.5	0.07512	37953	121065	23.961
0.4	0.08212	41491	162556	32.173
0.3	0.08225	41557	204113	40.398
0.2	0.07868	39755	243868	48.267
0.1	0.07686	38832	282700	55.952
0.0	0.08147	41163	323863	64.099
-0.1	0.08719	44054	367917	72.819
-0.2	0.08632	43611	411528	81.45
-0.3	0.07447	37628	449156	88.898
-0.4	0.05480	27687	476843	94.377
-0.5	0.03269	16517	493360	97.647
-0.6	0.01584	8005	501365	99.231
-0.7	0.00605	3059	504424	99.836
-0.8	0.00146	736	505160	99.982
-0.9	0.00017	87	505247	99.999
-1.0	0.00001	3	505250	100

Station Information	
Station no.	216471
Station name	Ulladulla
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	270711
Northing	6084368

Summary Statistics	
Time interval (mins)	15
Start of record	06/12/2007
Highest water level recorded (m)	1.480
Date recorded	05/06/2016
Lowest water level recorded (m)	-1.061
Date recorded	31/08/2019







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216471

NSW GOVERNMENT

Ulladulla (216471)
FREQUENCY DISTRIBUTION ANALYSIS

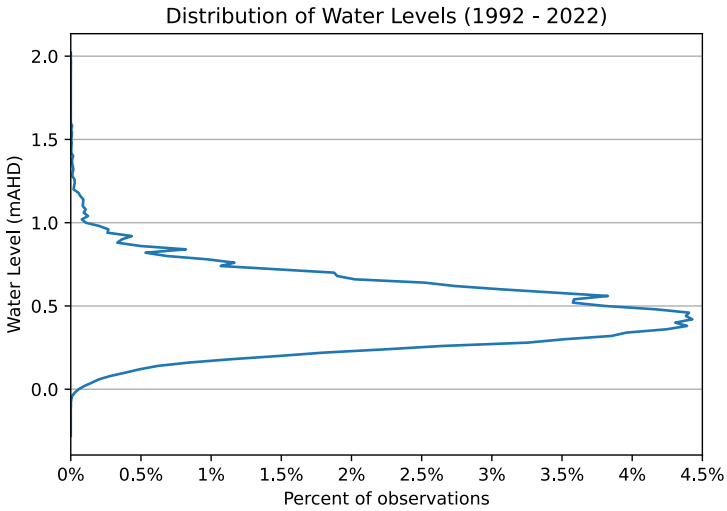
Manly Hydraulics Laboratory

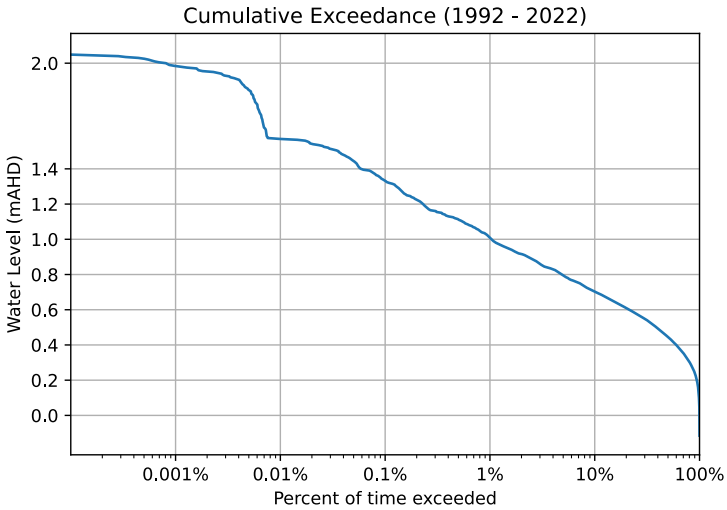
MHL2971
Figure
A255

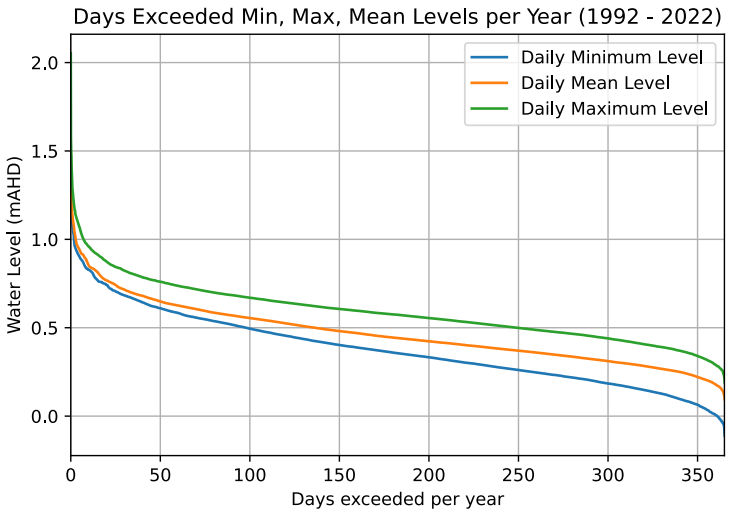
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.2	0.00000	0	0	0
2.1	0.00001	10	10	0.00088368
2.0	0.00003	37	47	0.0041533
1.9	0.00001	16	63	0.0055672
1.8	0.00001	12	75	0.0066276
1.7	0.00001	9	84	0.0074229
1.6	0.00029	324	408	0.036054
1.5	0.00023	257	665	0.058765
1.4	0.00069	785	1450	0.12813
1.3	0.00102	1153	2603	0.23002
1.2	0.00320	3618	6221	0.54974
1.1	0.00486	5496	11717	1.0354
1.0	0.01275	14424	26141	2.31
0.9	0.02547	28828	54969	4.8575
0.8	0.05367	60730	115699	10.224
0.7	0.11054	125090	240789	21.278
0.6	0.17503	198071	438860	38.781
0.5	0.21189	239786	678646	59.971
0.4	0.20754	234860	913506	80.725
0.3	0.13474	152476	1065982	94.199
0.2	0.04573	51752	1117734	98.772
0.1	0.01126	12745	1130479	99.898
0.0	0.00100	1135	1131614	99.999
-0.1	0.00001	14	1131628	100

Station Information	
Station no.	216420D
Station name	Lake Conjola Downstream
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	272620
Northing	6094240

Summary Statistics	
Time interval (mins)	15
Start of record	17/09/1992
Highest water level recorded (m)	2.037
Date recorded	10/02/2020
Lowest water level recorded (m)	-0.300
Date recorded	20/12/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216420D

NSW GOVERNMENT

Lake Conjola Downstream (216420D) FREQUENCY DISTRIBUTION ANALYSIS

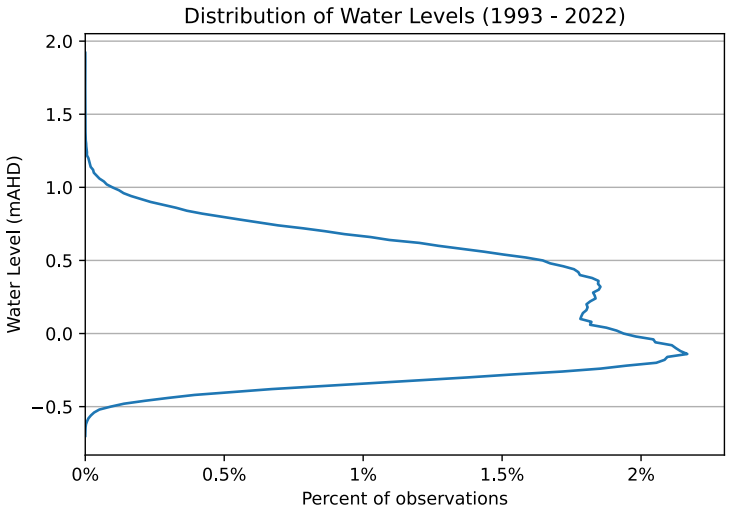
Manly Hydraulics Laboratory

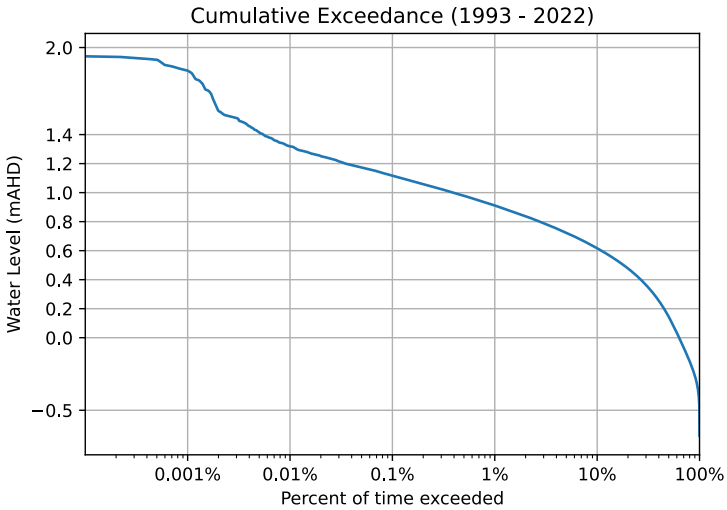
MHL2971
Figure
A256

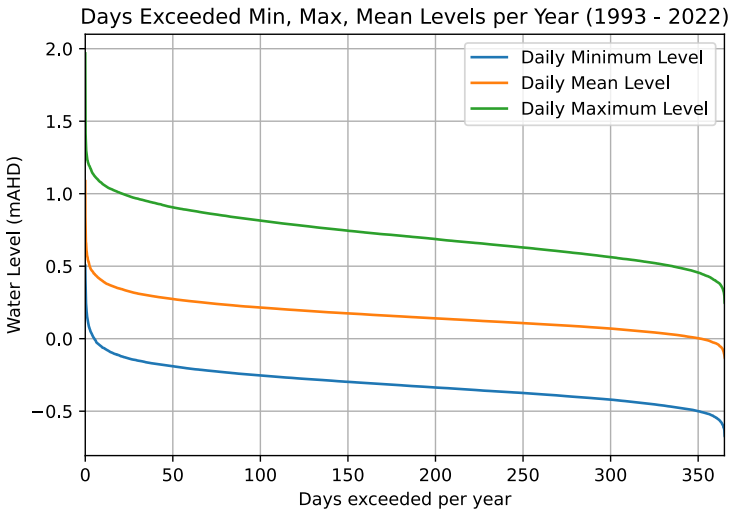
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00000	0	0	0
2.0	0.00001	6	6	0.00059827
1.9	0.00001	6	12	0.0011965
1.8	0.00000	5	17	0.0016951
1.7	0.00000	2	19	0.0018945
1.6	0.00001	13	32	0.0031908
1.5	0.00002	24	56	0.0055838
1.4	0.00006	61	117	0.011666
1.3	0.00023	232	349	0.034799
1.2	0.00089	897	1246	0.12424
1.1	0.00267	2682	3928	0.39167
1.0	0.00724	7256	11184	1.1152
0.9	0.01630	16344	27528	2.7449
0.8	0.03142	31508	59036	5.8866
0.7	0.05118	51324	110360	11.004
0.6	0.07147	71680	182040	18.151
0.5	0.08572	85973	268013	26.724
0.4	0.09149	91759	359772	35.873
0.3	0.09162	91885	451657	45.035
0.2	0.08991	90171	541828	54.026
0.1	0.09207	92337	634165	63.233
0.0	0.10124	101529	735694	73.357
-0.1	0.10613	106435	842129	83.97
-0.2	0.09108	91346	933475	93.078
-0.3	0.05127	51419	984894	98.205
-0.4	0.01578	15827	1000721	99.783
-0.5	0.00206	2067	1002788	99.989
-0.6	0.00011	108	1002896	100

Station Information	
Station no.	216430
Station name	Narrawallee Inlet
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	269839
Northing	6090673

Summary Statistics	
Time interval (mins)	15
Start of record	18/08/1993
Highest water level recorded (m)	1.942
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.720
Date recorded	08/09/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216430

NSW GOVERNMENT

Narrawallee Inlet (216430)
FREQUENCY DISTRIBUTION ANALYSIS

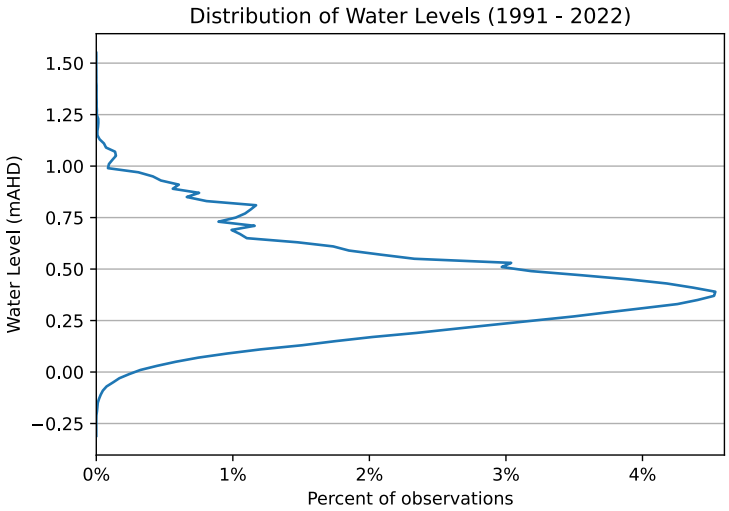
Manly Hydraulics Laboratory

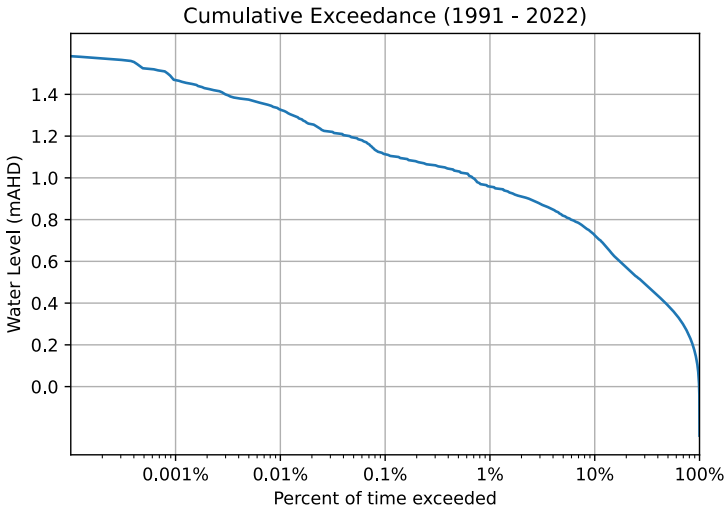
MHL2971
Figure
A257

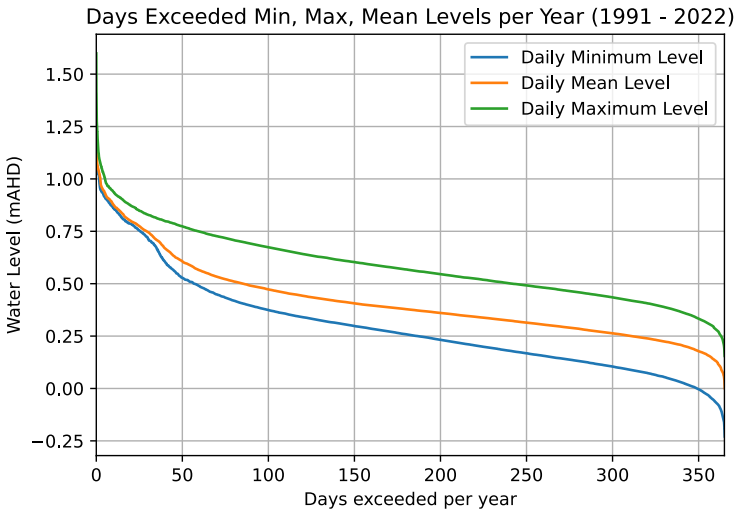
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00001	9	9	0.00087709
1.5	0.00002	22	31	0.0030211
1.4	0.00010	103	134	0.013059
1.3	0.00033	338	472	0.045999
1.2	0.00088	908	1380	0.13449
1.1	0.00550	5645	7025	0.68462
1.0	0.01673	17163	24188	2.3572
0.9	0.03572	36648	60836	5.9288
0.8	0.05435	55773	116609	11.364
0.7	0.05923	60779	177388	17.287
0.6	0.11731	120372	297760	29.018
0.5	0.18469	189509	487269	47.487
0.4	0.21923	224959	712228	69.41
0.3	0.16692	171281	883509	86.102
0.2	0.09550	97998	981507	95.653
0.1	0.03463	35537	1017044	99.116
0.0	0.00785	8058	1025102	99.901
-0.1	0.00096	982	1026084	99.997
-0.2	0.00003	32	1026116	100

Station Information	
Station no.	216435
Station name	Burrill Lake Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	267949
Northing	6080931

Summary Statistics	
Time interval (mins)	15
Start of record	08/11/1991
Highest water level recorded (m)	1.573
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.330
Date recorded	29/02/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216435

NSW GOVERNMENT

Burrill Lake Bridge (216435)
FREQUENCY DISTRIBUTION ANALYSIS

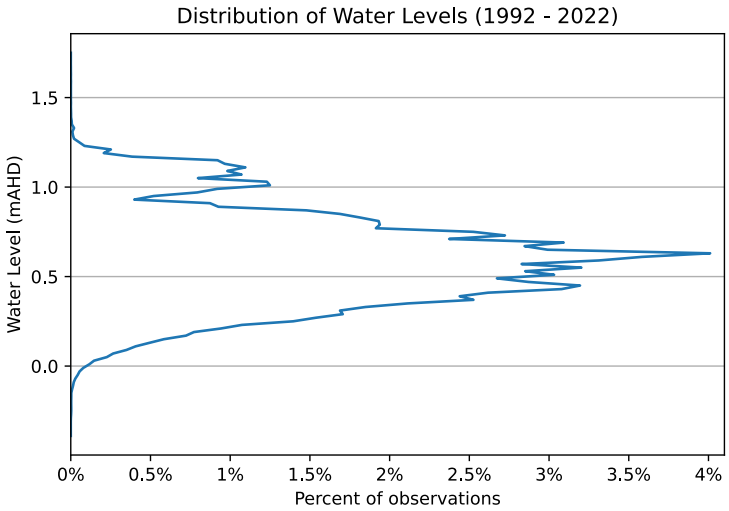
Manly Hydraulics Laboratory

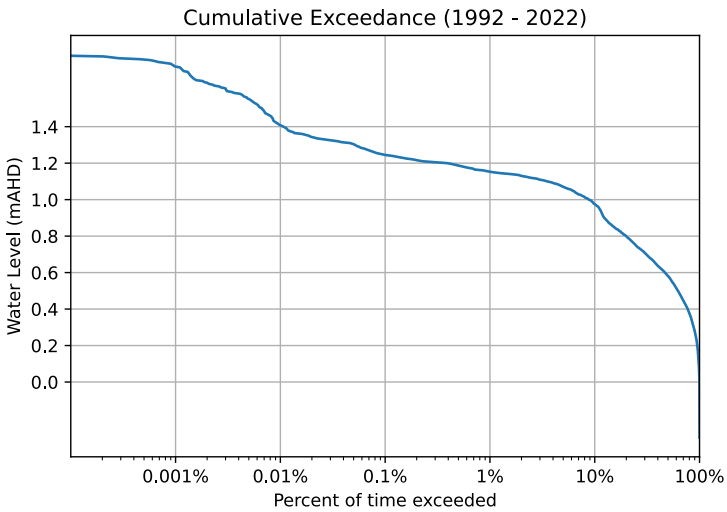
MHL2971
Figure
A258

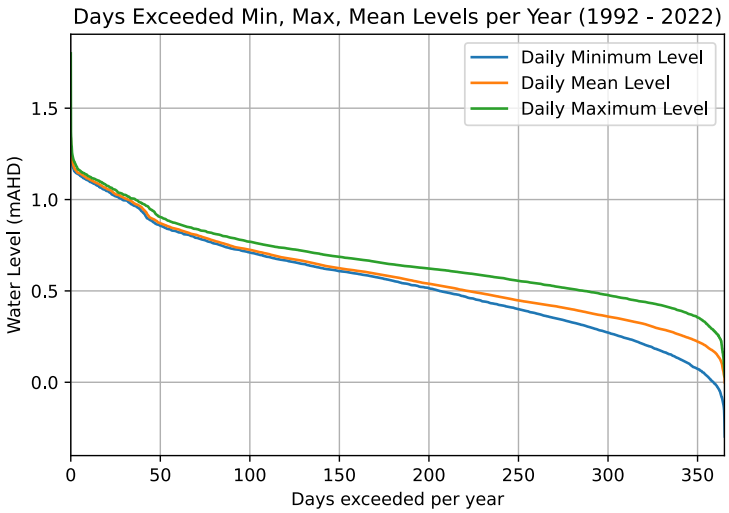
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00001	14	14	0.0013907
1.7	0.00002	17	31	0.0030795
1.6	0.00004	37	68	0.006755
1.5	0.00004	40	108	0.010728
1.4	0.00041	413	521	0.051755
1.3	0.00339	3411	3932	0.3906
1.2	0.03117	31373	35305	3.5071
1.1	0.05280	53153	88458	8.7872
1.0	0.03527	35507	123965	12.314
0.9	0.07640	76907	200872	19.954
0.8	0.11049	111228	312100	31.003
0.7	0.16086	161933	474033	47.089
0.6	0.15156	152569	626602	62.245
0.5	0.14892	149915	776517	77.138
0.4	0.11024	110972	887489	88.161
0.3	0.07035	70815	958304	95.196
0.2	0.03247	32683	990987	98.442
0.1	0.01237	12451	1003438	99.679
0.0	0.00269	2712	1006150	99.949
-0.1	0.00039	396	1006546	99.988
-0.2	0.00012	120	1006666	100

Station Information	
Station no.	216440
Station name	Tabourie Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	264310
Northing	6074957

Summary Statistics	
Time interval (mins)	15
Start of record	16/09/1992
Highest water level recorded (m)	1.771
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.410
Date recorded	27/08/1998







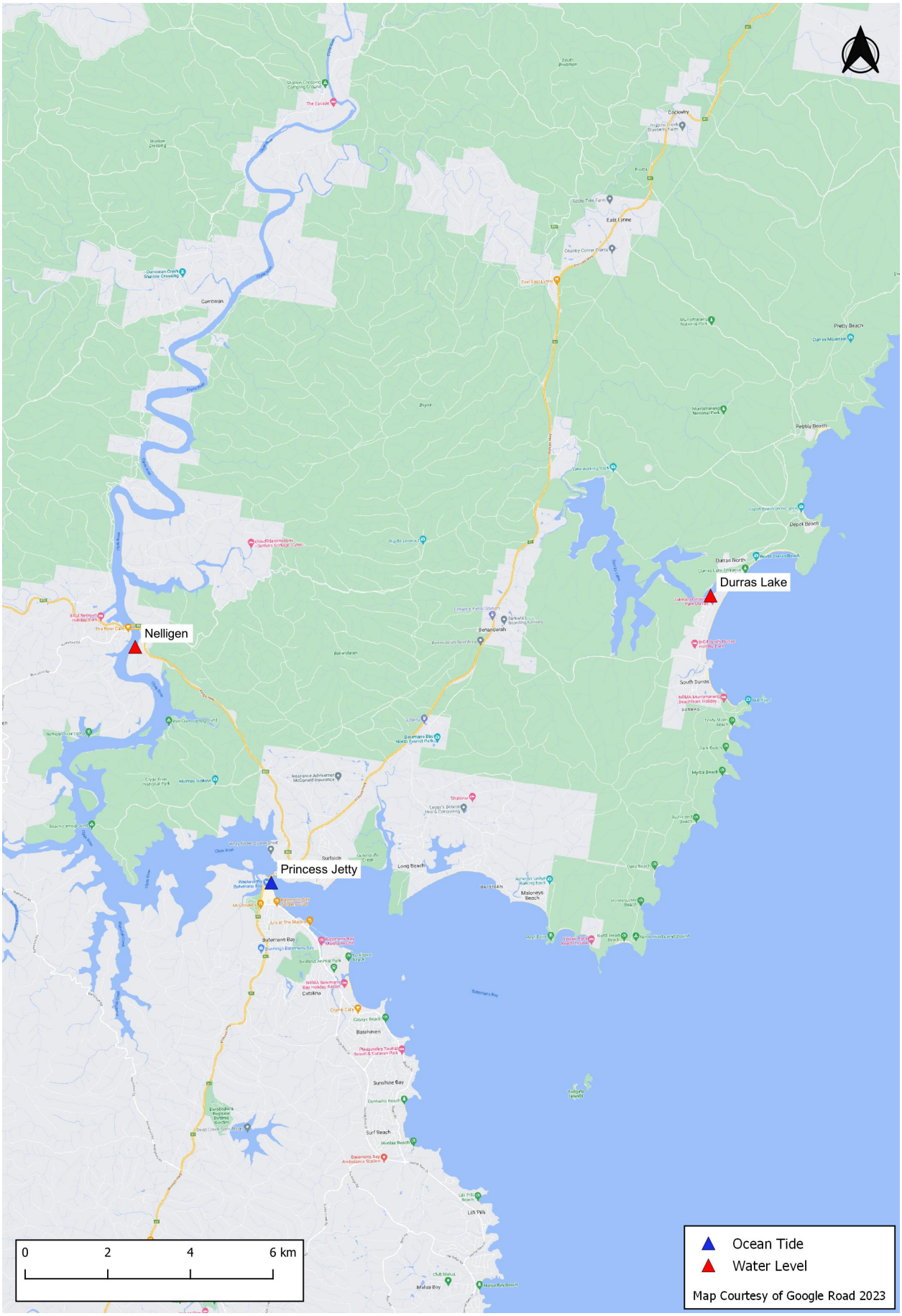
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216440

NSW GOVERNMENT

Tabourie Lake (216440)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A259



NSW GOVERNMENT

STATION LOCATIONS
BATEMANS BAY REGION

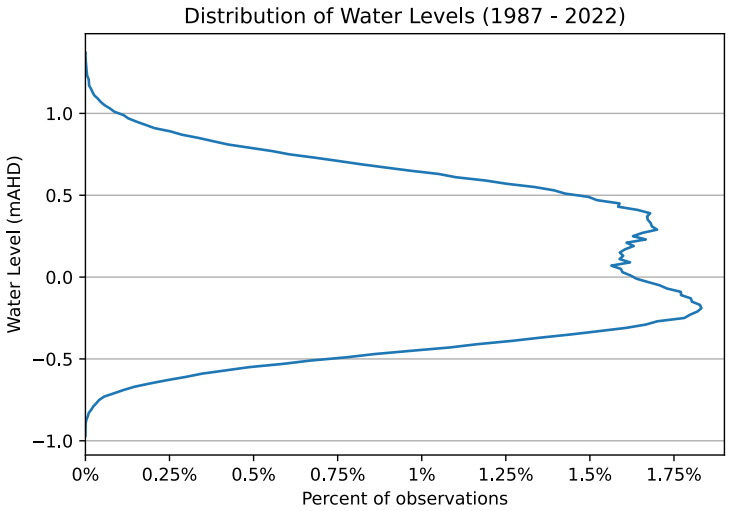
Manly Hydraulics Laboratory

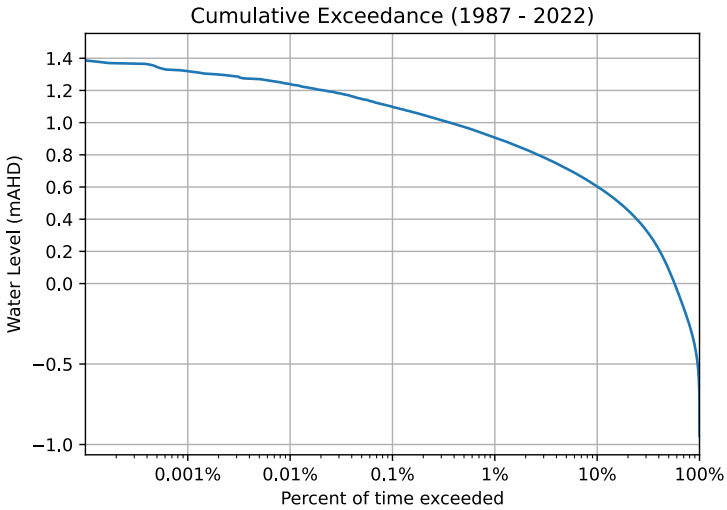
MHL2971
Figure
A260

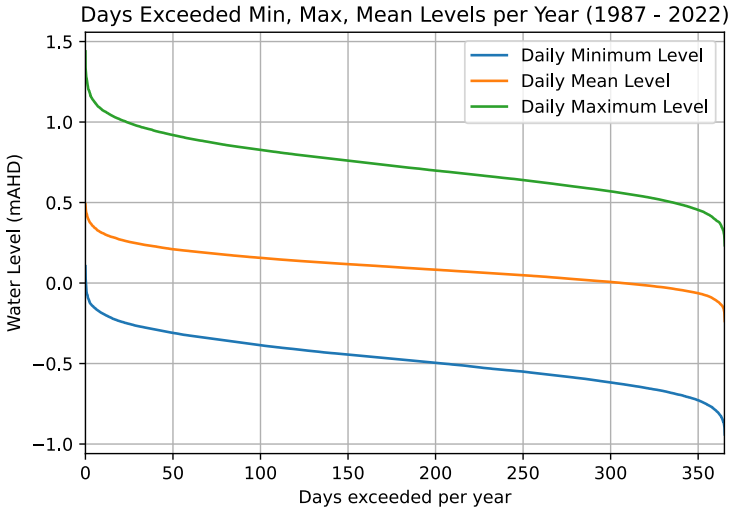
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00002	21	21	0.001882
1.3	0.00020	219	240	0.021509
1.2	0.00077	856	1096	0.098225
1.1	0.00266	2973	4069	0.36467
1.0	0.00714	7970	12039	1.079
0.9	0.01571	17528	29567	2.6498
0.8	0.02906	32425	61992	5.5558
0.7	0.04663	52025	114017	10.218
0.6	0.06421	71646	185663	16.639
0.5	0.07734	86300	271963	24.374
0.4	0.08360	93279	365242	32.733
0.3	0.08319	92821	458063	41.052
0.2	0.08022	89509	547572	49.074
0.1	0.07958	88796	636368	57.032
0.0	0.08442	94196	730564	65.474
-0.1	0.09026	100708	831272	74.5
-0.2	0.08865	98920	930192	83.365
-0.3	0.07387	82423	1012615	90.752
-0.4	0.05090	56794	1069409	95.842
-0.5	0.02725	30411	1099820	98.567
-0.6	0.01103	12304	1112124	99.67
-0.7	0.00280	3120	1115244	99.95
-0.8	0.00049	551	1115795	99.999
-0.9	0.00001	10	1115805	100

Station Information	
Station no.	216410
Station name	Princess Jetty
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	244664
Northing	6045231

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1987
Highest water level recorded (m)	1.390
Date recorded	19/08/2001
Lowest water level recorded (m)	-0.990
Date recorded	04/12/1990







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216410

NSW GOVERNMENT

Princess Jetty (216410)
FREQUENCY DISTRIBUTION ANALYSIS

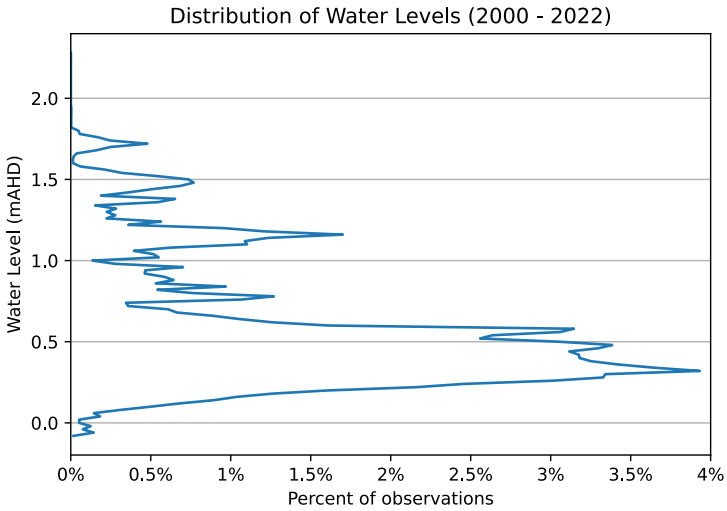
Manly Hydraulics Laboratory

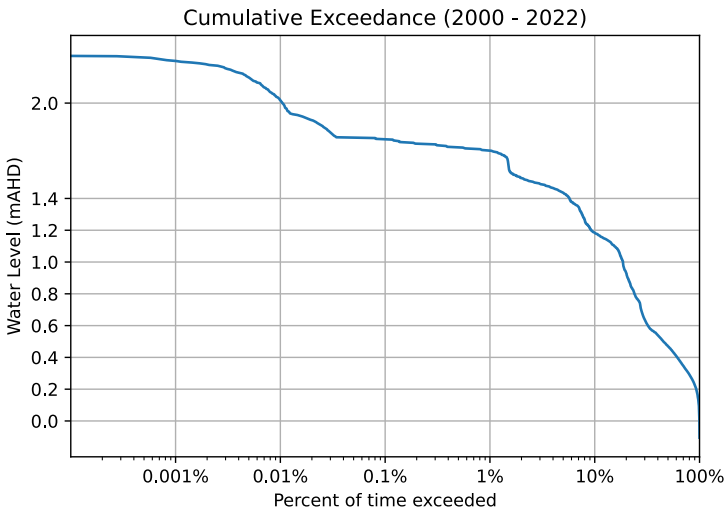
MHL2971
Figure
A261

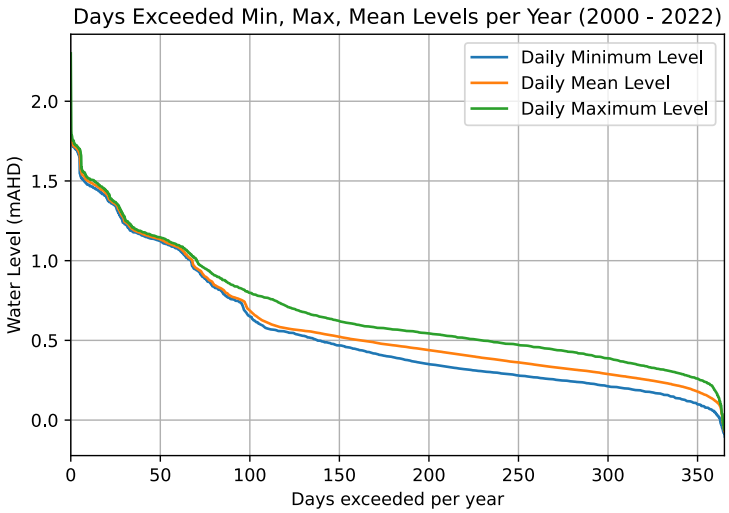
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.3	0.00004	26	26	0.0035364
2.2	0.00003	25	51	0.0069367
2.1	0.00003	25	76	0.010337
2.0	0.00008	60	136	0.018498
1.9	0.00013	98	234	0.031827
1.8	0.00999	7344	7578	1.0307
1.7	0.00478	3514	11092	1.5087
1.6	0.01157	8504	19596	2.6653
1.5	0.03057	22479	42075	5.7228
1.4	0.01821	13390	55465	7.544
1.3	0.01648	12119	67584	9.1924
1.2	0.06188	45498	113082	15.381
1.1	0.03188	23441	136523	18.569
1.0	0.02043	15019	151542	20.612
0.9	0.03269	24032	175574	23.881
0.8	0.03800	27938	203512	27.68
0.7	0.04468	32852	236364	32.149
0.6	0.13010	95650	332014	45.159
0.5	0.16031	117866	449880	61.19
0.4	0.17431	128155	578035	78.621
0.3	0.14299	105131	683166	92.92
0.2	0.05475	40255	723421	98.395
0.1	0.01192	8762	732183	99.587
0.0	0.00412	3032	735215	99.999
-0.1	0.00000	3	735218	100

Station Information	
Station no.	216445
Station name	Durras Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	255304
Northing	6052185

Summary Statistics	
Time interval (mins)	15
Start of record	02/11/2000
Highest water level recorded (m)	2.301
Date recorded	25/08/2015
Lowest water level recorded (m)	-0.100
Date recorded	18/02/2002







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216445

NSW GOVERNMENT

Durras Lake (216445)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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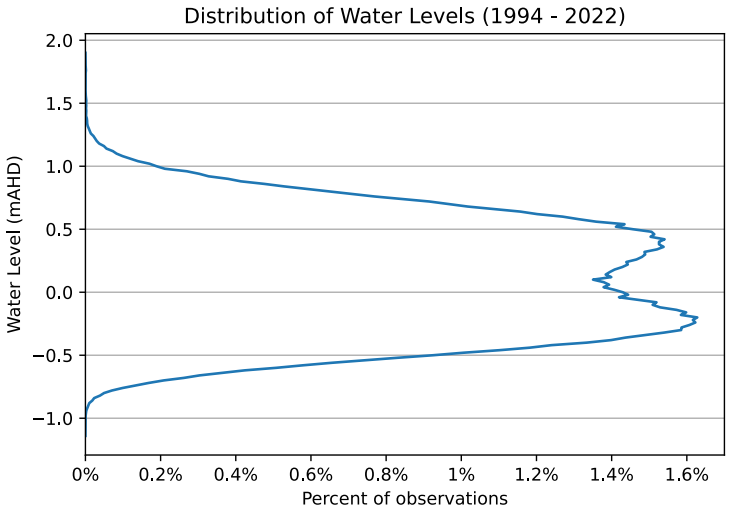
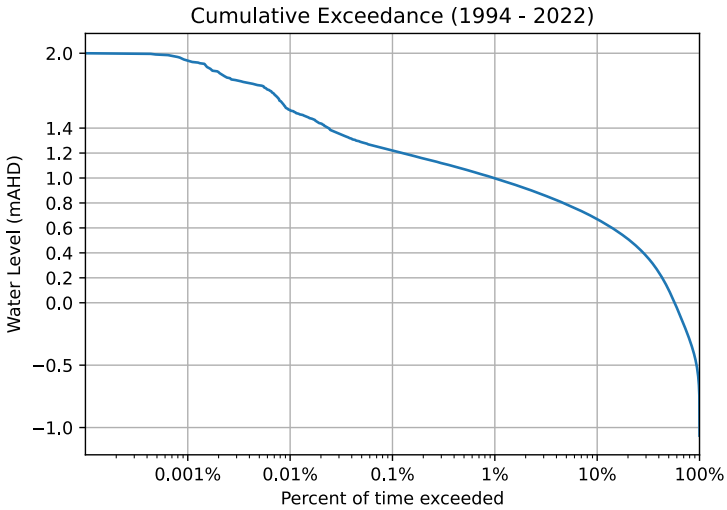
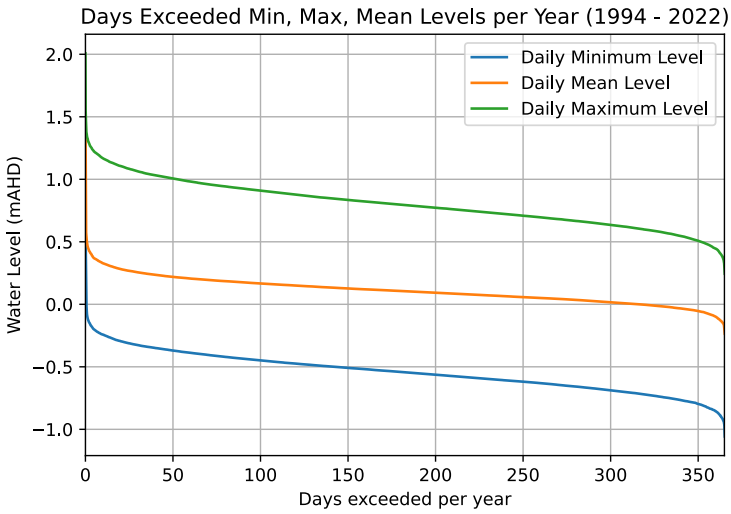
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.0	0.00001	14	14	0.0014466
1.9	0.00001	11	25	0.0025832
1.8	0.00004	36	61	0.006303
1.7	0.00002	20	81	0.0083695
1.6	0.00005	51	132	0.013639
1.5	0.00010	97	229	0.023662
1.4	0.00020	197	426	0.044017
1.3	0.00082	789	1215	0.12554
1.2	0.00245	2370	3585	0.37043
1.1	0.00612	5922	9507	0.98233
1.0	0.01300	12584	22091	2.2826
0.9	0.02383	23061	45152	4.6654
0.8	0.03884	37588	82740	8.5493
0.7	0.05432	52568	135308	13.981
0.6	0.06786	65673	200981	20.767
0.5	0.07520	72779	273760	28.287
0.4	0.07598	73534	347294	35.885
0.3	0.07318	70821	418115	43.203
0.2	0.07014	67883	485998	50.217
0.1	0.06907	66847	552845	57.124
0.0	0.07280	70459	623304	64.404
-0.1	0.07793	75418	698722	72.197
-0.2	0.08059	77997	776719	80.256
-0.3	0.07451	72107	848826	87.707
-0.4	0.05864	56753	905579	93.571
-0.5	0.03732	36117	941696	97.303
-0.6	0.01860	18002	959698	99.163
-0.7	0.00679	6576	966274	99.843
-0.8	0.00140	1358	967632	99.983
-0.9	0.00016	155	967787	99.999
-1.0	0.00001	10	967797	100

Station Information	
Station no.	216453
Station name	Nelligen
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	241369
Northing	6050944

Summary Statistics	
Time interval (mins)	15
Start of record	21/04/1994
Highest water level recorded (m)	1.920
Date recorded	25/10/1999
Lowest water level recorded (m)	-1.160
Date recorded	12/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216453

NSW GOVERNMENT

Nelligen (216453)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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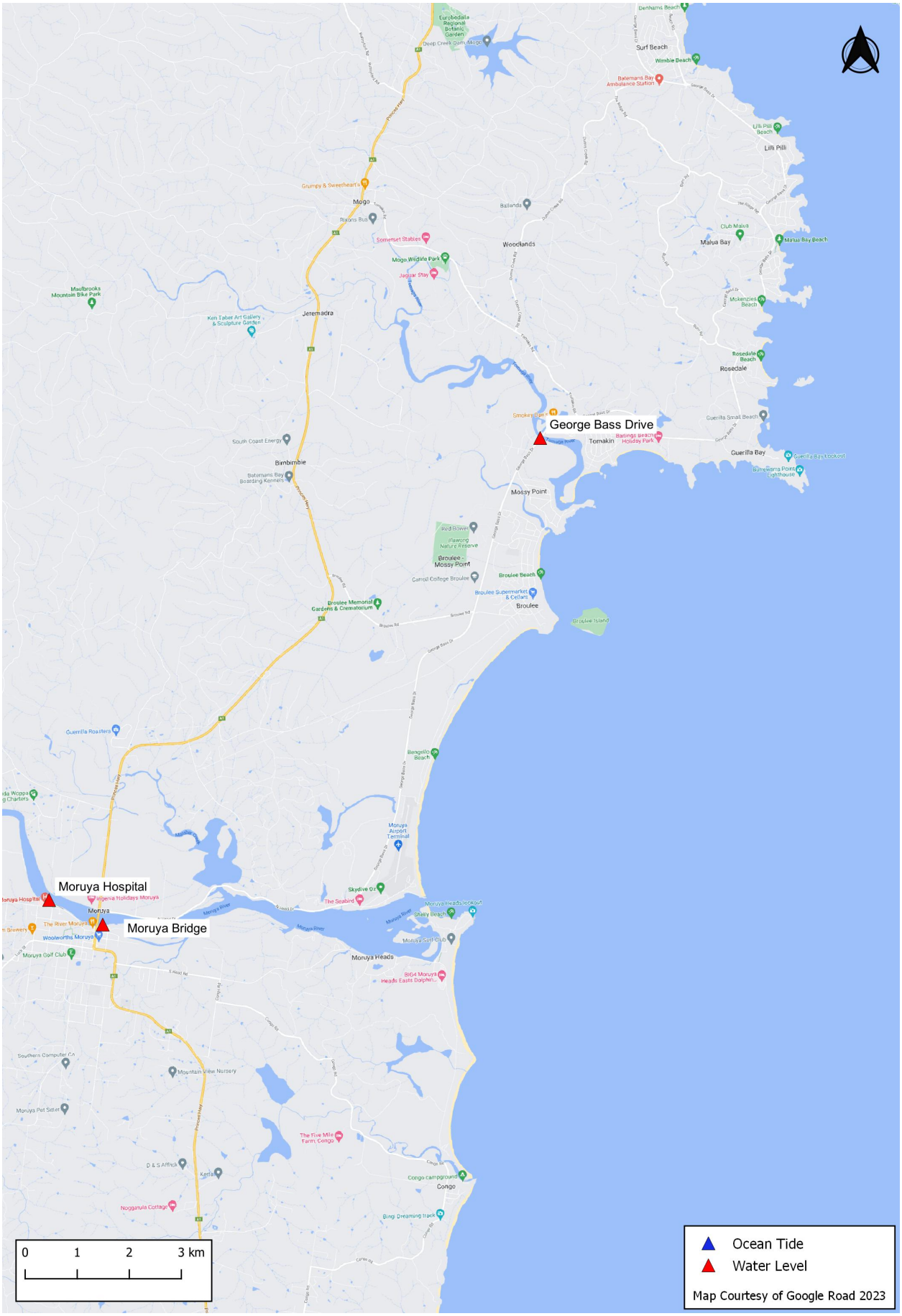


NSW GOVERNMENT

STATION LOCATIONS
MORUYA RIVER REGION

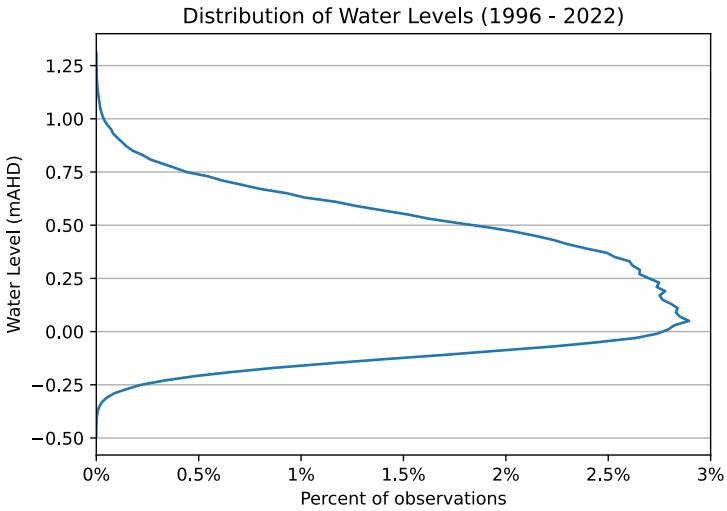
Manly Hydraulics Laboratory

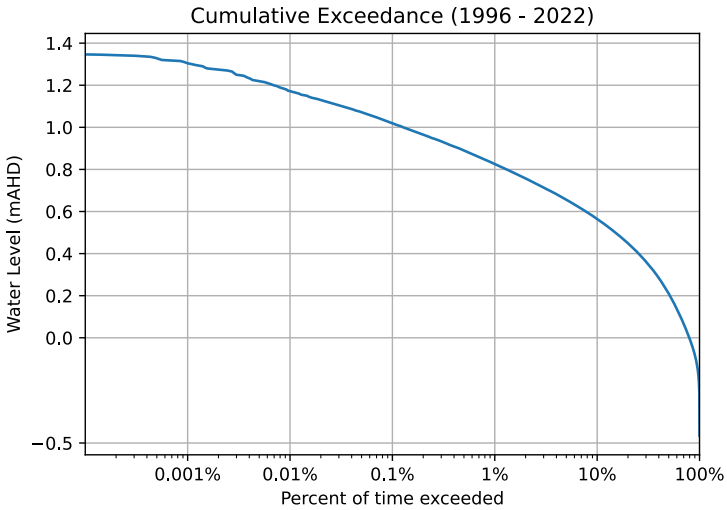
MHL2971
Figure
A264

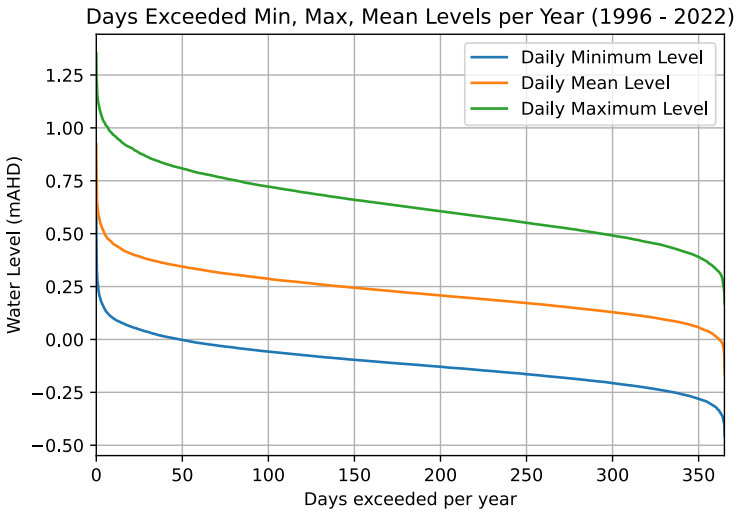
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00001	10	10	0.001134
1.3	0.00006	51	61	0.0069171
1.2	0.00026	228	289	0.032771
1.1	0.00095	836	1125	0.12757
1.0	0.00321	2828	3953	0.44825
0.9	0.00855	7544	11497	1.3037
0.8	0.02115	18651	30148	3.4186
0.7	0.04362	38467	68615	7.7806
0.6	0.07266	64073	132688	15.046
0.5	0.10384	91570	224258	25.43
0.4	0.12503	110258	334516	37.933
0.3	0.13425	118395	452911	51.358
0.2	0.13889	122484	575395	65.247
0.1	0.14215	125358	700753	79.462
0.0	0.12476	110020	810773	91.938
-0.1	0.06385	56305	867078	98.323
-0.2	0.01527	13465	880543	99.85
-0.3	0.00146	1290	881833	99.996
-0.4	0.00004	37	881870	100

Station Information	
Station no.	216455
Station name	George Bass Drive
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	245110
Northing	6031671

Summary Statistics	
Time interval (mins)	15
Start of record	28/08/1996
Highest water level recorded (m)	1.325
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.510
Date recorded	11/01/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-216455

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George Bass Drive (216455)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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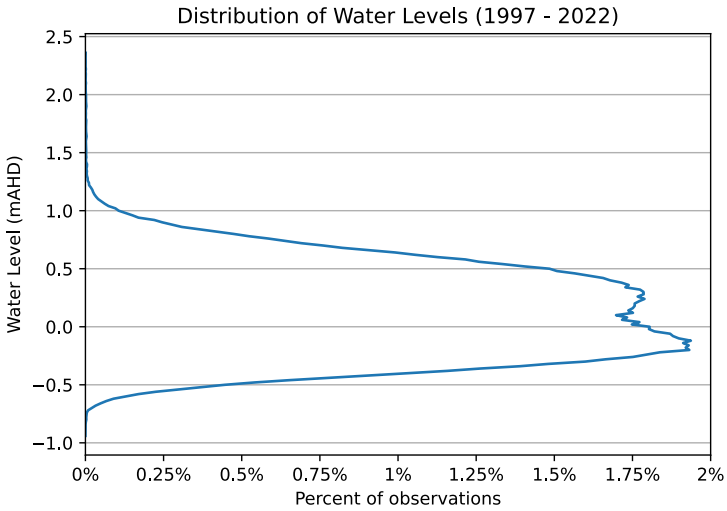
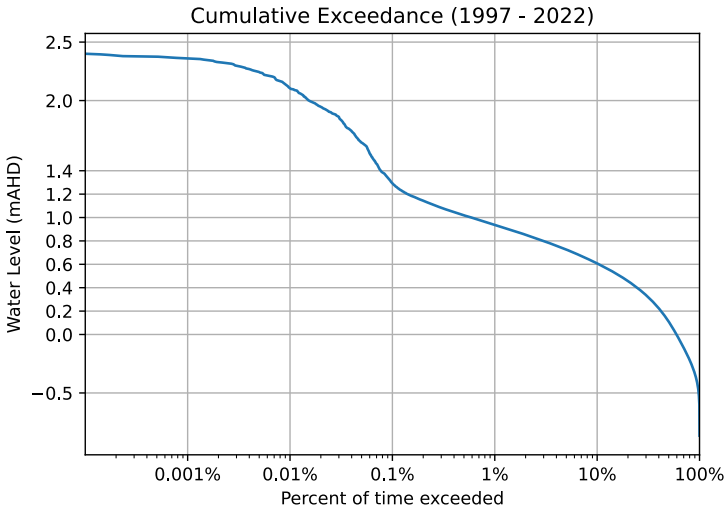
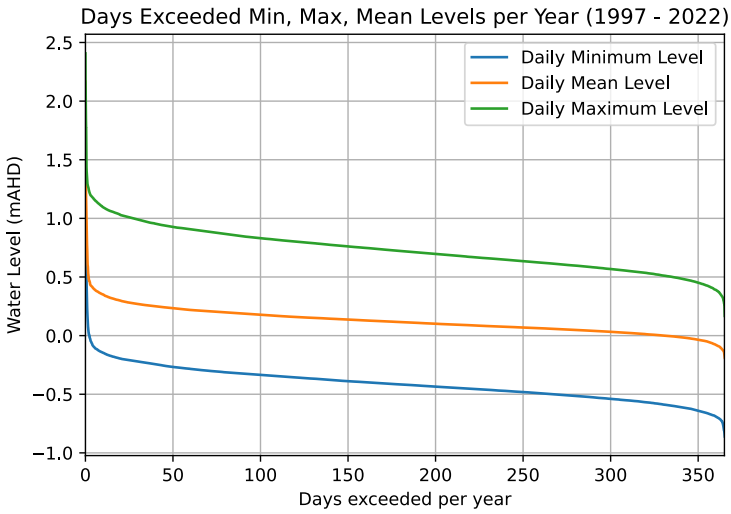
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.4	0.00003	24	24	0.002796
2.3	0.00004	35	59	0.0068735
2.2	0.00003	28	87	0.010136
2.1	0.00005	44	131	0.015262
2.0	0.00010	83	214	0.024931
1.9	0.00009	77	291	0.033902
1.8	0.00010	82	373	0.043455
1.7	0.00013	112	485	0.056503
1.6	0.00009	73	558	0.065007
1.5	0.00011	98	656	0.076424
1.4	0.00022	187	843	0.09821
1.3	0.00042	361	1204	0.14027
1.2	0.00127	1089	2293	0.26713
1.1	0.00324	2777	5070	0.59066
1.0	0.00776	6661	11731	1.3667
0.9	0.01609	13815	25546	2.9761
0.8	0.02910	24981	50527	5.8864
0.7	0.04531	38896	89423	10.418
0.6	0.06340	54418	143841	16.757
0.5	0.07825	67169	211010	24.583
0.4	0.08633	74099	285109	33.215
0.3	0.08897	76373	361482	42.113
0.2	0.08753	75135	436617	50.866
0.1	0.08667	74394	511011	59.533
0.0	0.09178	78779	589790	68.711
-0.1	0.09597	82376	672166	78.307
-0.2	0.08980	77082	749248	87.287
-0.3	0.06890	59140	808388	94.177
-0.4	0.03900	33479	841867	98.078
-0.5	0.01511	12971	854838	99.589
-0.6	0.00367	3153	857991	99.956
-0.7	0.00039	337	858328	99.995
-0.8	0.00005	40	858368	100

Station Information	
Station no.	217410
Station name	Moruya Bridge
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	236703
Northing	6022317

Summary Statistics	
Time interval (mins)	15
Start of record	25/05/1997
Highest water level recorded (m)	2.380
Date recorded	06/06/2016
Lowest water level recorded (m)	-0.960
Date recorded	24/12/1999







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-217410

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Moruya Bridge (217410)
FREQUENCY DISTRIBUTION ANALYSIS

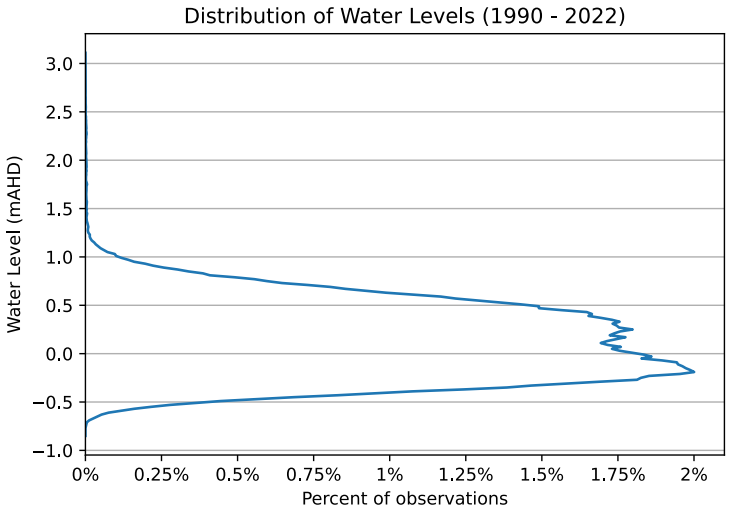
Manly Hydraulics Laboratory

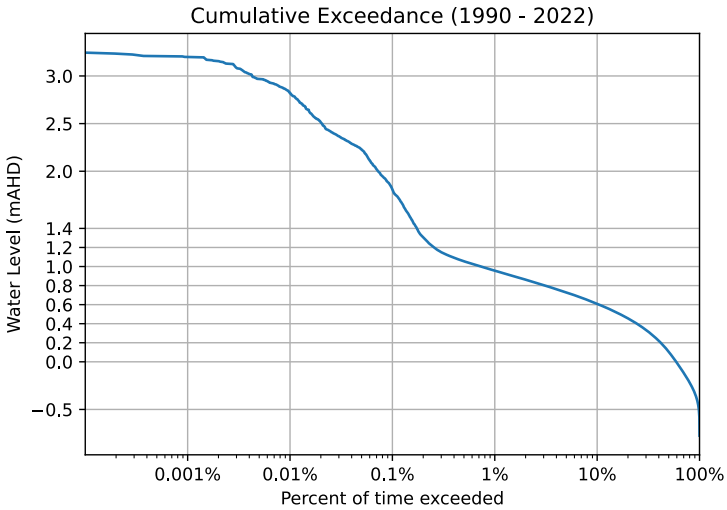
MHL2971
Figure
A266

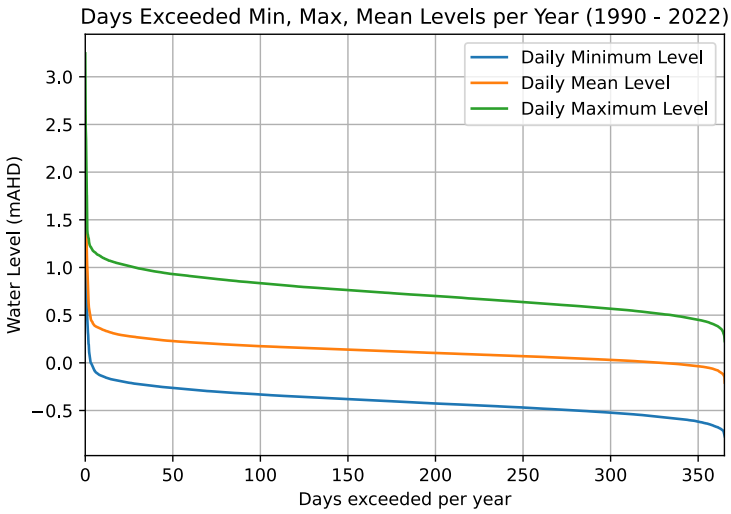
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.2	0.00003	35	35	0.003353
3.0	0.00006	64	99	0.0094841
2.8	0.00006	61	160	0.015328
2.6	0.00010	106	266	0.025483
2.4	0.00027	278	544	0.052115
2.2	0.00019	203	747	0.071562
2.0	0.00028	297	1044	0.10001
1.8	0.00033	343	1387	0.13287
1.6	0.00040	413	1800	0.17244
1.4	0.00082	851	2651	0.25396
1.2	0.00478	4990	7641	0.732
1.0	0.02371	24751	32392	3.1031
0.8	0.07321	76421	108813	10.424
0.6	0.14039	146544	255357	24.463
0.4	0.17334	180940	436297	41.797
0.2	0.17366	181274	617571	59.163
0.0	0.19143	199824	817395	78.306
-0.2	0.16363	170804	988199	94.669
-0.4	0.05062	52842	1041041	99.731
-0.6	0.00268	2798	1043839	99.999

Station Information	
Station no.	217402
Station name	Moruya Hospital
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	235673
Northing	6022790

Summary Statistics	
Time interval (mins)	15
Start of record	25/10/1990
Highest water level recorded (m)	3.130
Date recorded	10/02/1992
Lowest water level recorded (m)	-0.870
Date recorded	30/08/1996







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-217402

NSW GOVERNMENT

Moruya Hospital (217402)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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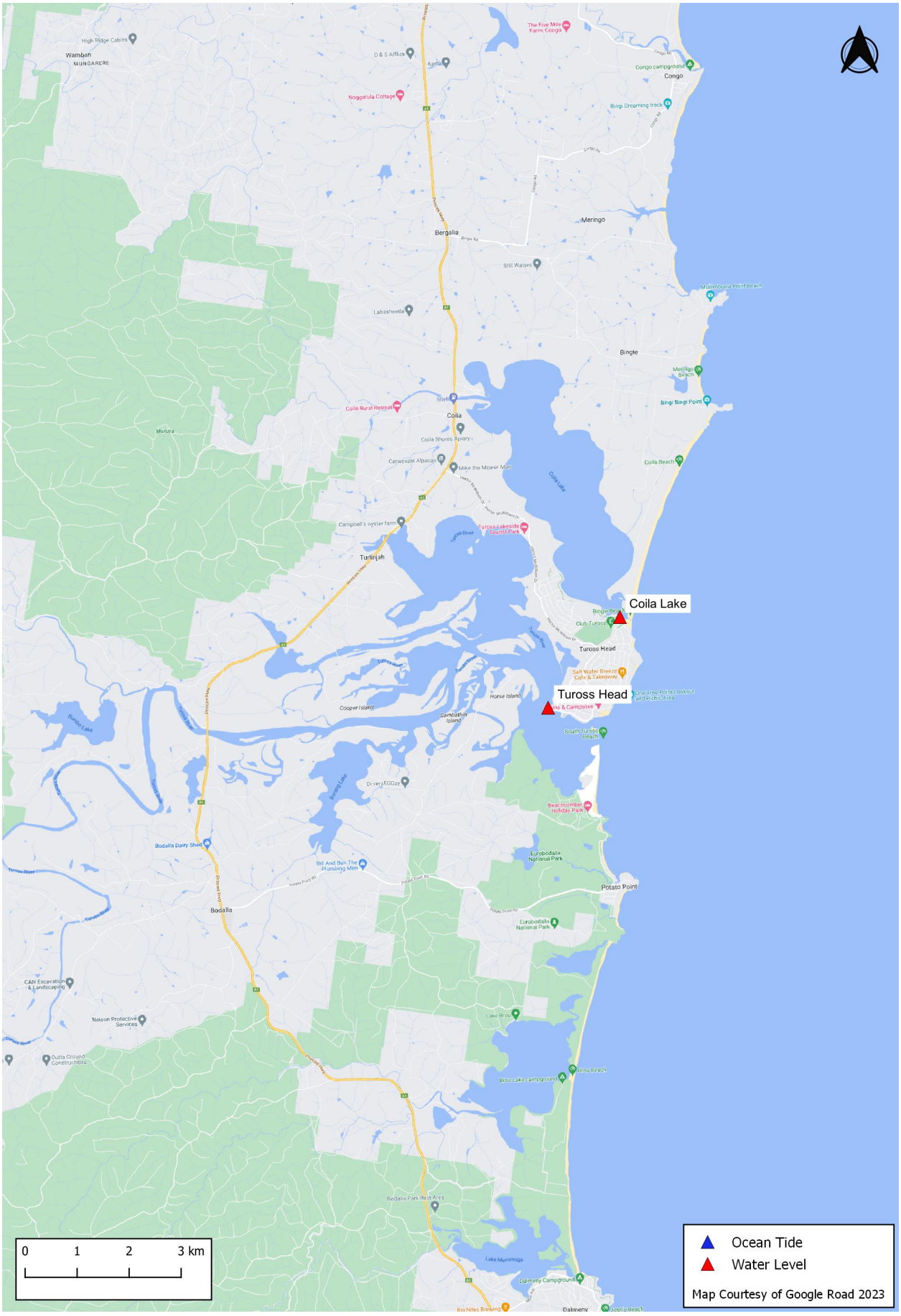


NSW GOVERNMENT

STATION LOCATIONS
COILA AND TUROSS LAKES

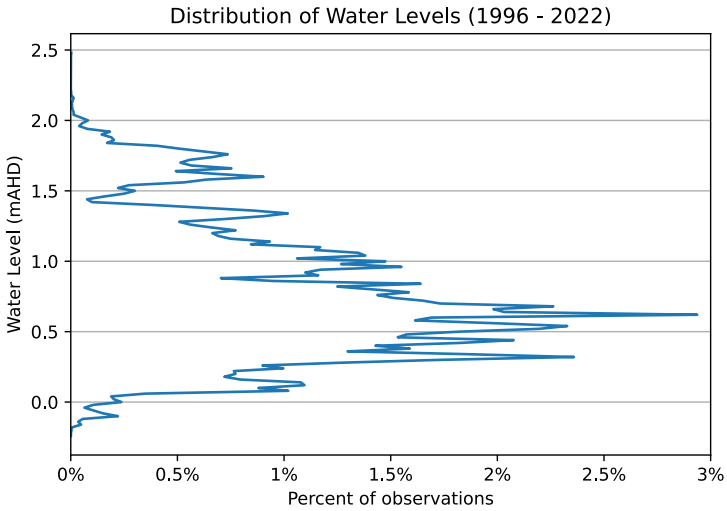
Manly Hydraulics Laboratory

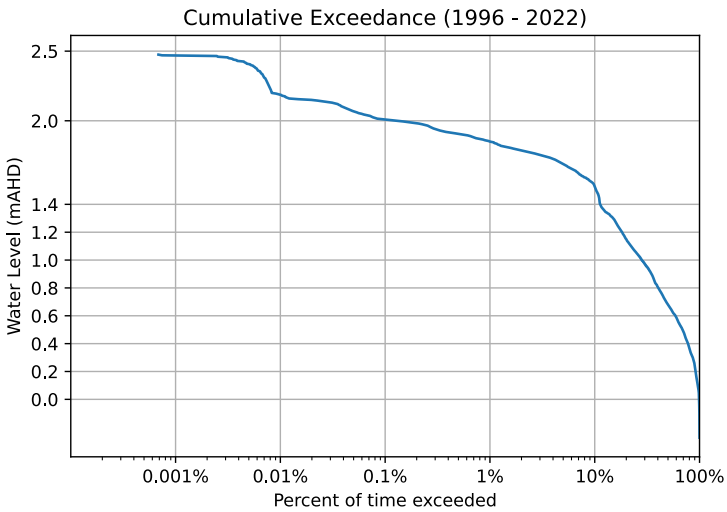
MHL2971
Figure
A268

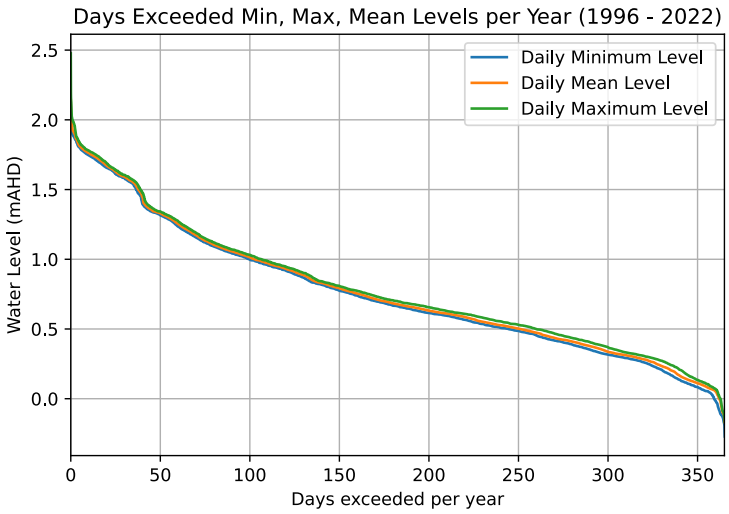
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00005	47	47	0.0052581
2.4	0.00002	18	65	0.0072718
2.3	0.00001	9	74	0.0082787
2.2	0.00032	282	356	0.039827
2.1	0.00089	793	1149	0.12854
2.0	0.00435	3890	5039	0.56373
1.9	0.01113	9945	14984	1.6763
1.8	0.03086	27588	42572	4.7627
1.7	0.03009	26900	69472	7.7721
1.6	0.02565	22925	92397	10.337
1.5	0.00884	7898	100295	11.22
1.4	0.03770	33695	133990	14.99
1.3	0.03223	28812	162802	18.213
1.2	0.03881	34692	197494	22.094
1.1	0.06104	54560	252054	28.198
1.0	0.06563	58663	310717	34.761
0.9	0.05702	50967	361684	40.463
0.8	0.07602	67955	429639	48.065
0.7	0.10943	97816	527455	59.009
0.6	0.09815	87729	615184	68.823
0.5	0.08830	78929	694113	77.653
0.4	0.08537	76307	770420	86.19
0.3	0.05674	50720	821140	91.864
0.2	0.04462	39881	861021	96.326
0.1	0.02640	23600	884621	98.966
0.0	0.00664	5937	890558	99.63
-0.1	0.00365	3260	893818	99.995
-0.2	0.00005	44	893862	100

Station Information	
Station no.	218405
Station name	Coila Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	242279
Northing	6006865

Summary Statistics	
Time interval (mins)	15
Start of record	18/01/1996
Highest water level recorded (m)	2.490
Date recorded	16/02/2010
Lowest water level recorded (m)	-0.263
Date recorded	28/08/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-218405

NSW GOVERNMENT

Coila Lake (218405)
FREQUENCY DISTRIBUTION ANALYSIS

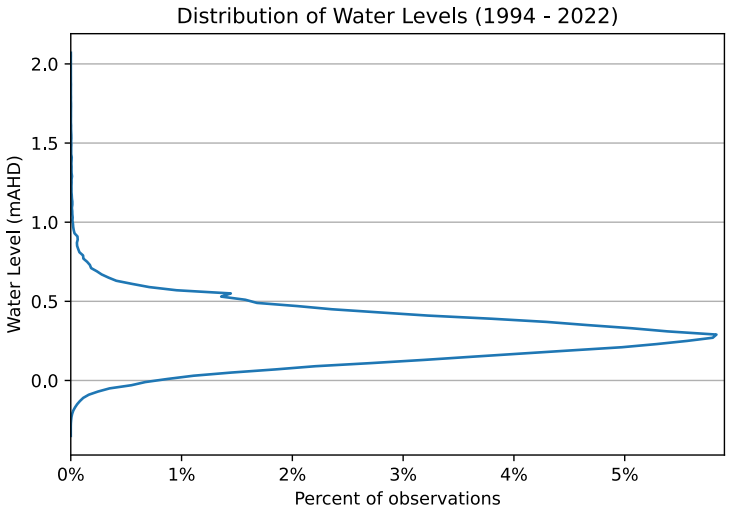
Manly Hydraulics Laboratory

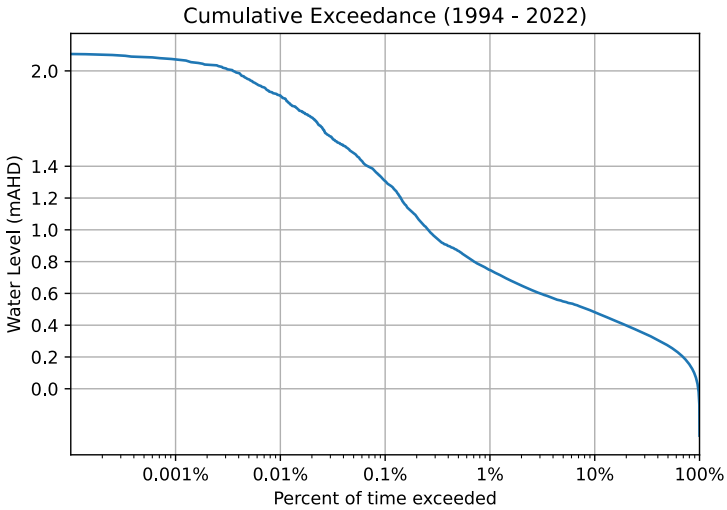
MHL2971
Figure
A269

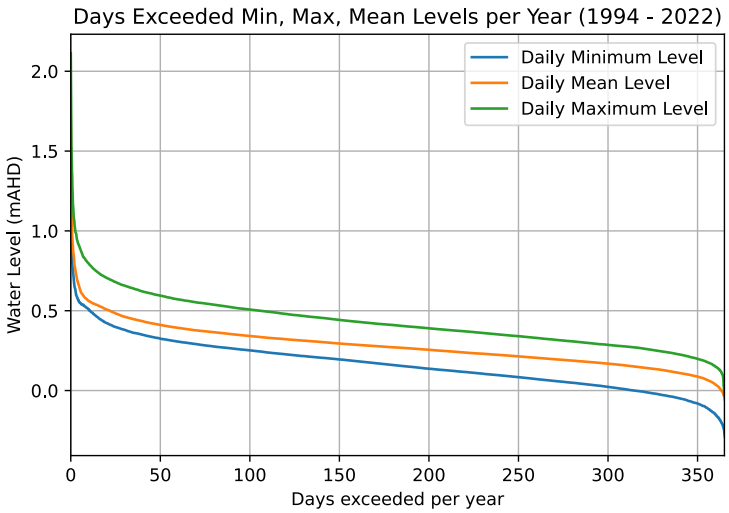
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.1	0.00003	32	32	0.0032545
2.0	0.00003	31	63	0.0064074
1.9	0.00005	52	115	0.011696
1.8	0.00009	84	199	0.020239
1.7	0.00007	73	272	0.027664
1.6	0.00018	177	449	0.045665
1.5	0.00022	220	669	0.06804
1.4	0.00034	334	1003	0.10201
1.3	0.00038	377	1380	0.14035
1.2	0.00049	478	1858	0.18897
1.1	0.00068	666	2524	0.2567
1.0	0.00138	1353	3877	0.39431
0.9	0.00310	3050	6927	0.70451
0.8	0.00676	6651	13578	1.3809
0.7	0.01611	15843	29421	2.9923
0.6	0.05540	54474	83895	8.5325
0.5	0.11214	110262	194157	19.747
0.4	0.22133	217625	411782	41.88
0.3	0.27782	273160	684942	69.662
0.2	0.19235	189128	874070	88.897
0.1	0.08375	82350	956420	97.272
0.0	0.02318	22787	979207	99.59
-0.1	0.00377	3703	982910	99.966
-0.2	0.00033	327	983237	100

Station Information	
Station no.	218410
Station name	Tuross Head
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	240898
Northing	6005120

Summary Statistics	
Time interval (mins)	15
Start of record	06/05/1994
Highest water level recorded (m)	2.078
Date recorded	22/03/2011
Lowest water level recorded (m)	-0.370
Date recorded	16/12/1994







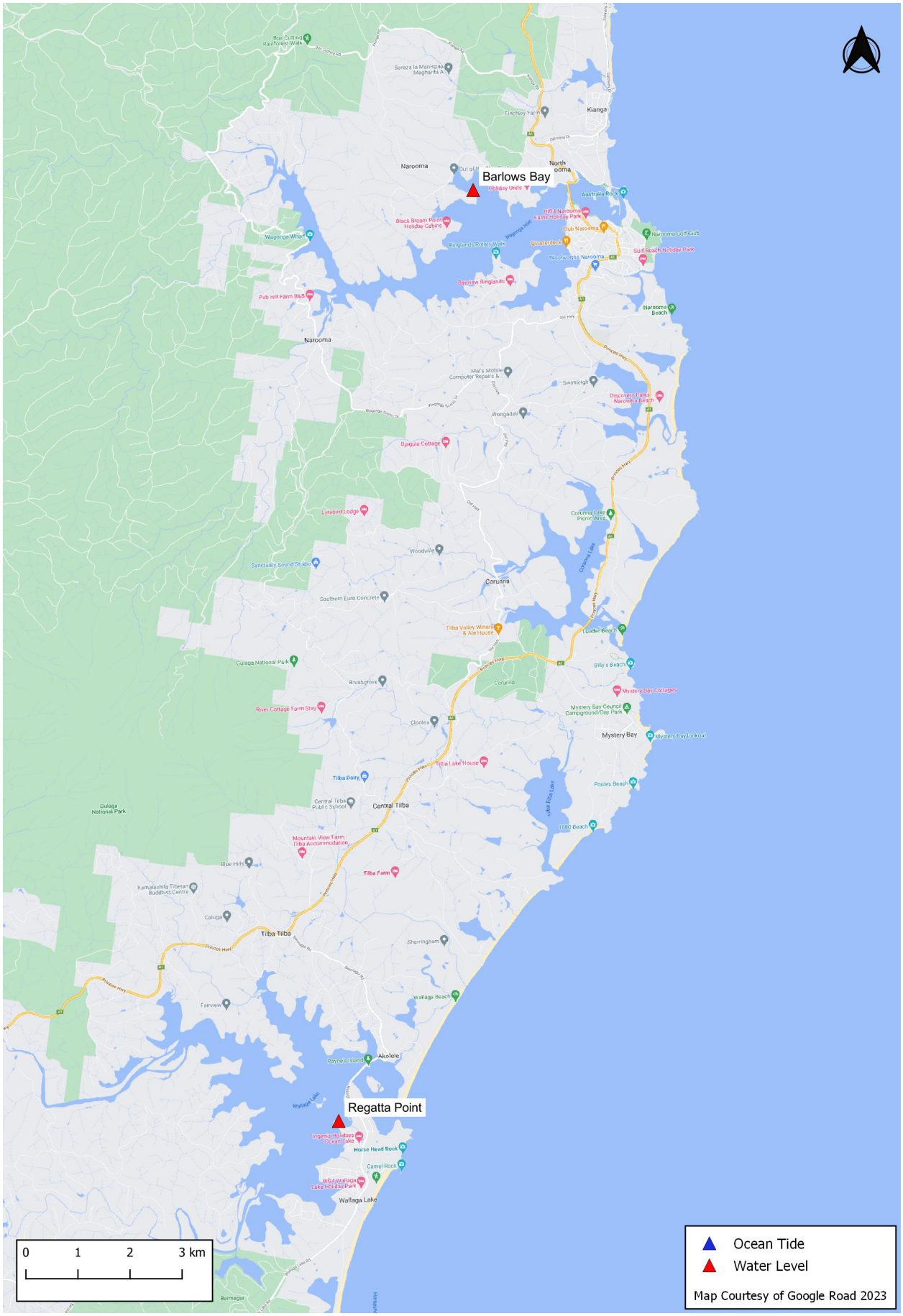
For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-218410

NSW GOVERNMENT

Tuross Head (218410)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A270



NSW GOVERNMENT

STATION LOCATIONS
WAGONGA INLET AND WALLAGA LAKE

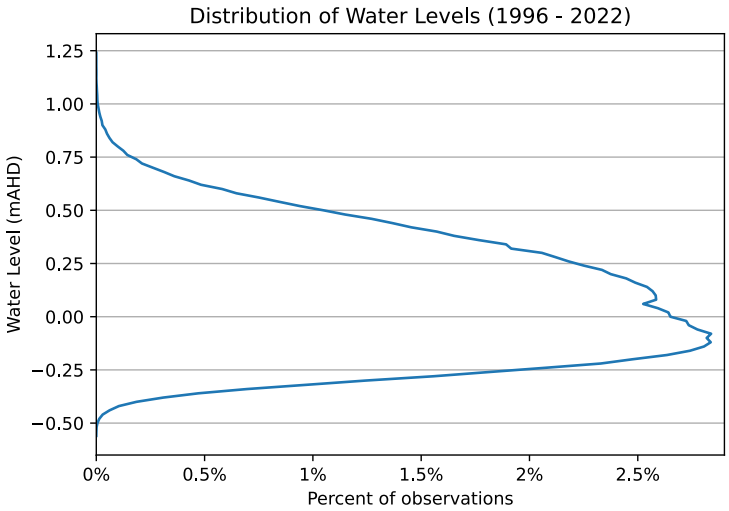
Manly Hydraulics Laboratory

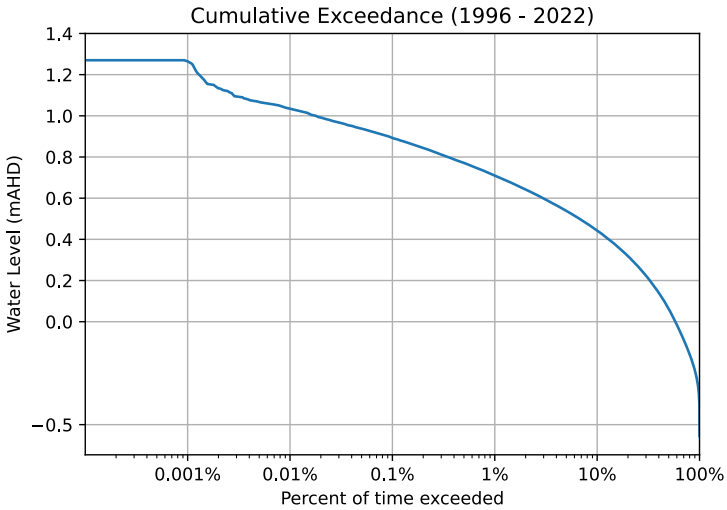
MHL2971
Figure
A271

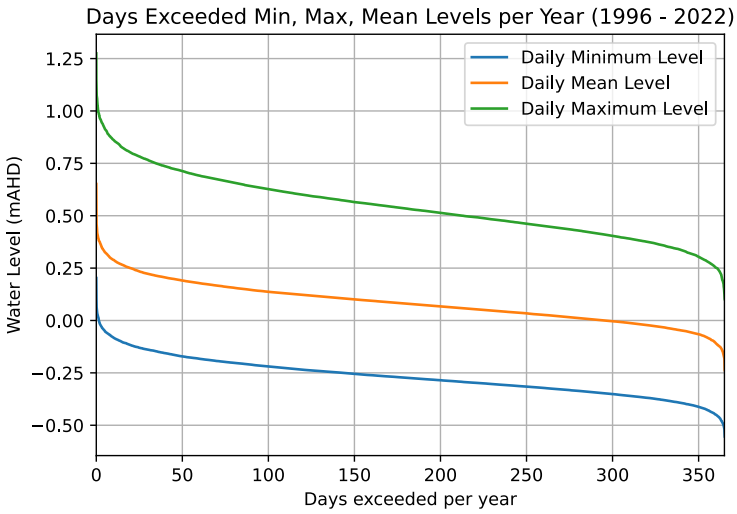
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.3	0.00001	12	12	0.0013317
1.2	0.00002	14	26	0.0028853
1.1	0.00015	136	162	0.017977
1.0	0.00074	665	827	0.091773
0.9	0.00255	2300	3127	0.34701
0.8	0.00762	6871	9998	1.1095
0.7	0.01847	16647	26645	2.9568
0.6	0.03763	33911	60556	6.72
0.5	0.06291	56687	117243	13.011
0.4	0.08797	79274	196517	21.808
0.3	0.10943	98615	295132	32.751
0.2	0.12421	111929	407061	45.172
0.1	0.12927	116485	523546	58.099
0.0	0.13723	123665	647211	71.822
-0.1	0.13836	124685	771896	85.658
-0.2	0.10248	92351	864247	95.907
-0.3	0.03692	33268	897515	99.599
-0.4	0.00394	3554	901069	99.993
-0.5	0.00007	63	901132	100

Station Information	
Station no.	218415
Station name	Barlows Bay
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	239464
Northing	5988955

Summary Statistics	
Time interval (mins)	15
Start of record	30/08/1996
Highest water level recorded (m)	1.259
Date recorded	05/06/2016
Lowest water level recorded (m)	-0.580
Date recorded	08/02/1997







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-218415

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Barlows Bay (218415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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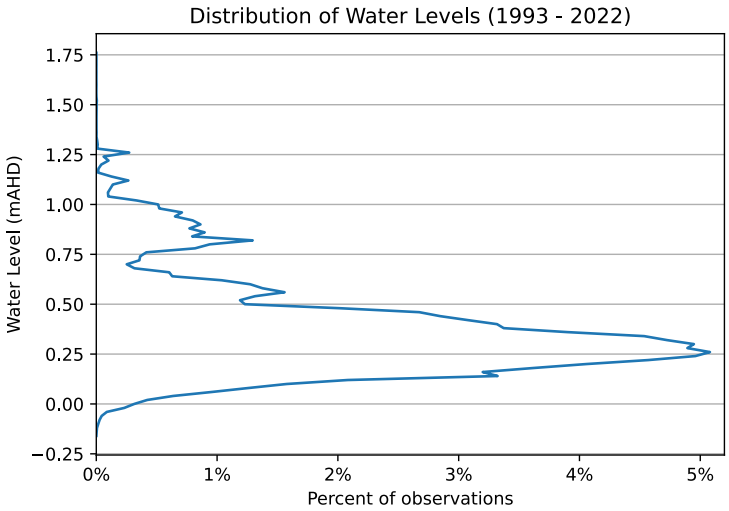
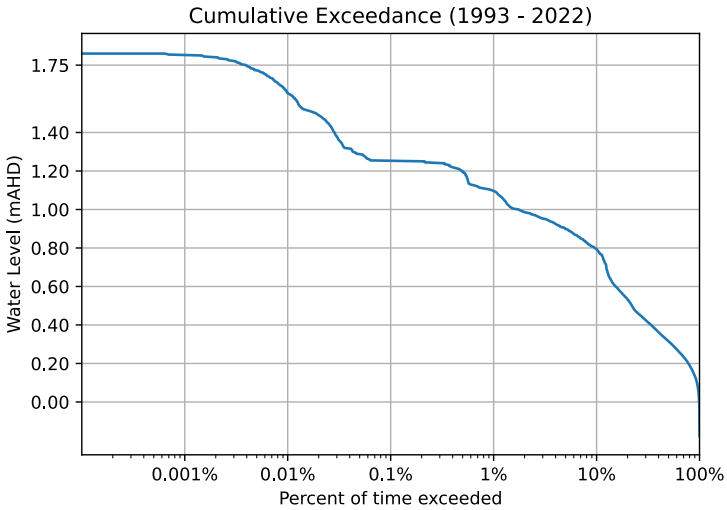
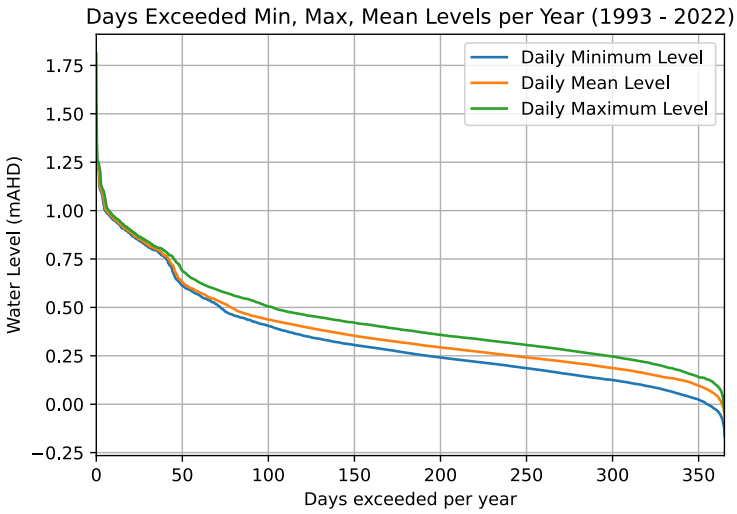
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.8	0.00005	45	45	0.004666
1.7	0.00004	41	86	0.0089173
1.6	0.00008	81	167	0.017316
1.5	0.00010	93	260	0.026959
1.4	0.00014	139	399	0.041372
1.3	0.00454	4378	4777	0.49533
1.2	0.00465	4481	9258	0.95996
1.1	0.00783	7549	16807	1.7427
1.0	0.03192	30784	47591	4.9347
0.9	0.04619	44545	92136	9.5536
0.8	0.02890	27874	120010	12.444
0.7	0.02839	27376	147386	15.282
0.6	0.06712	64736	212122	21.995
0.5	0.11843	114216	326338	33.838
0.4	0.19853	191470	517808	53.691
0.3	0.24449	235794	753602	78.141
0.2	0.16276	156965	910567	94.417
0.1	0.04852	46792	957359	99.268
0.0	0.00704	6792	964151	99.973
-0.1	0.00026	249	964400	99.998

Station Information	
Station no.	219405
Station name	Regatta Point
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	236881
Northing	5971060

Summary Statistics	
Time interval (mins)	15
Start of record	13/10/1993
Highest water level recorded (m)	1.780
Date recorded	12/02/2007
Lowest water level recorded (m)	-0.182
Date recorded	07/01/2015







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-219405

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Regatta Point (219405)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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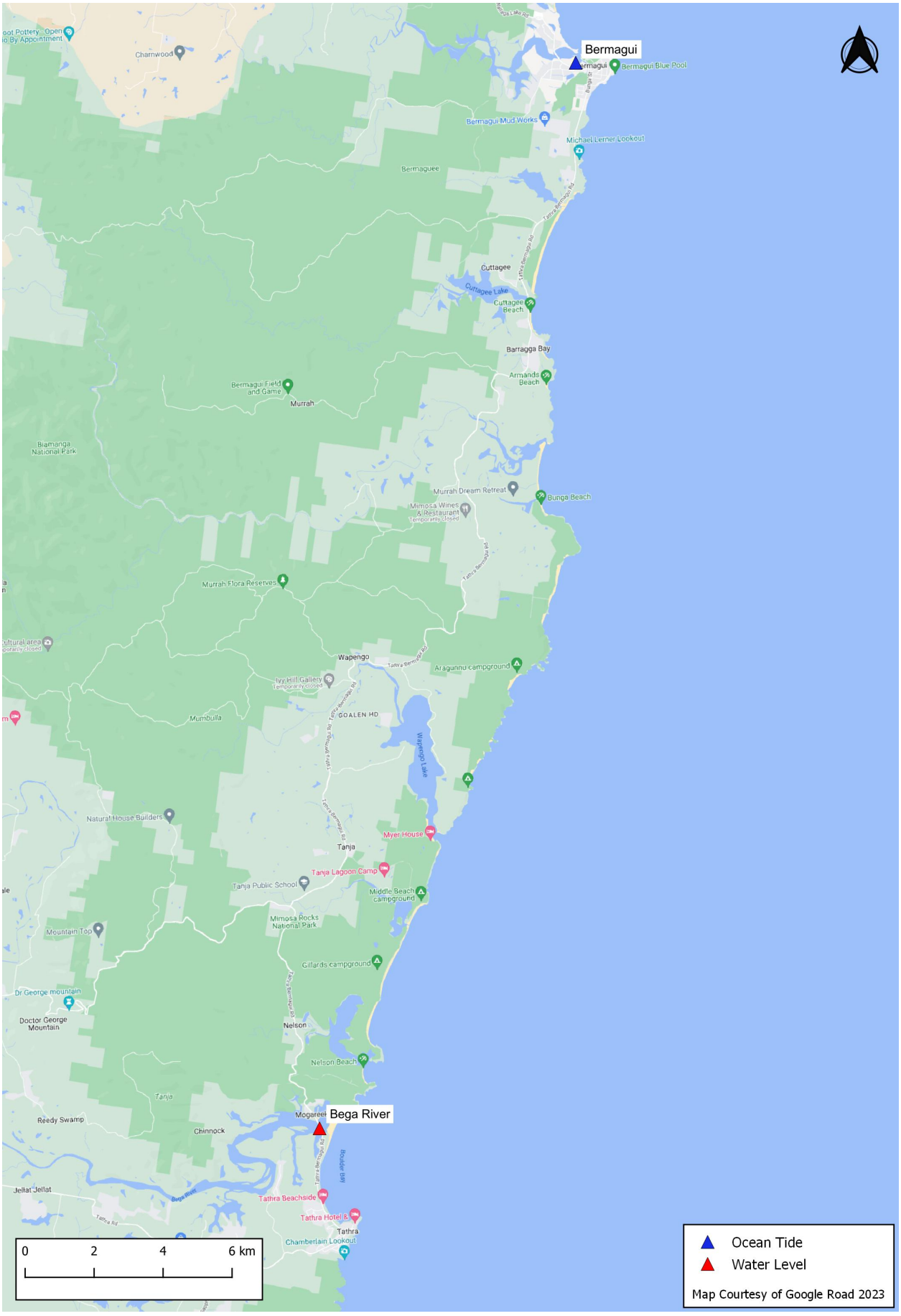

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STATION LOCATIONS
BEGA RIVER AND BACK LAGOON

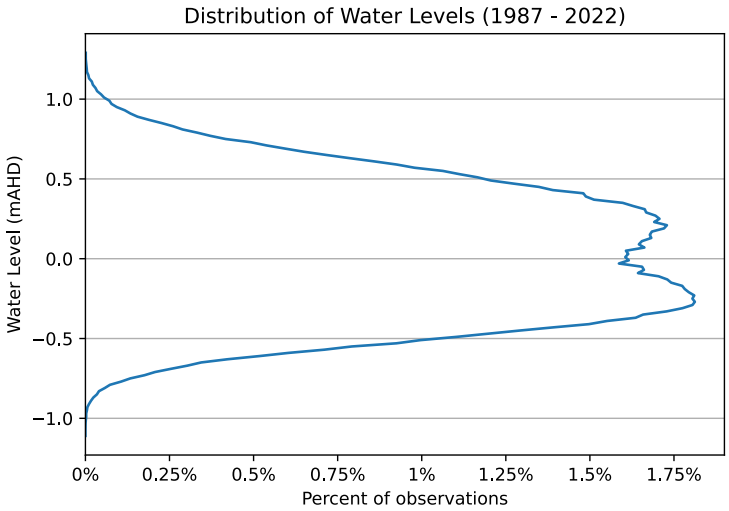
Manly Hydraulics Laboratory

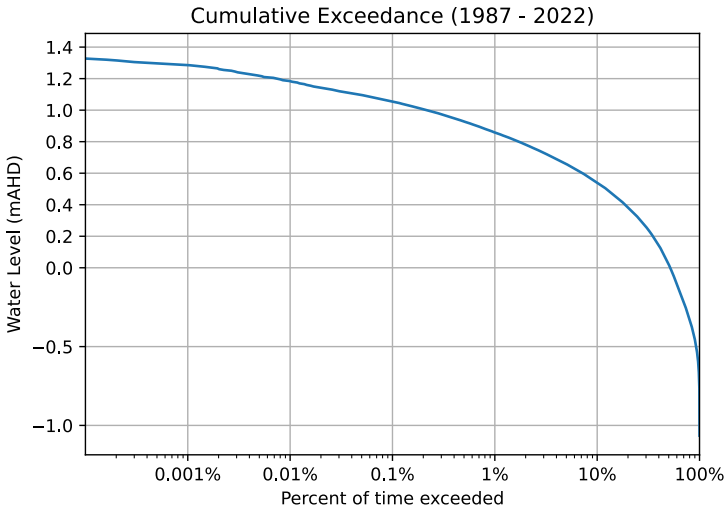
MHL2971
Figure
A274

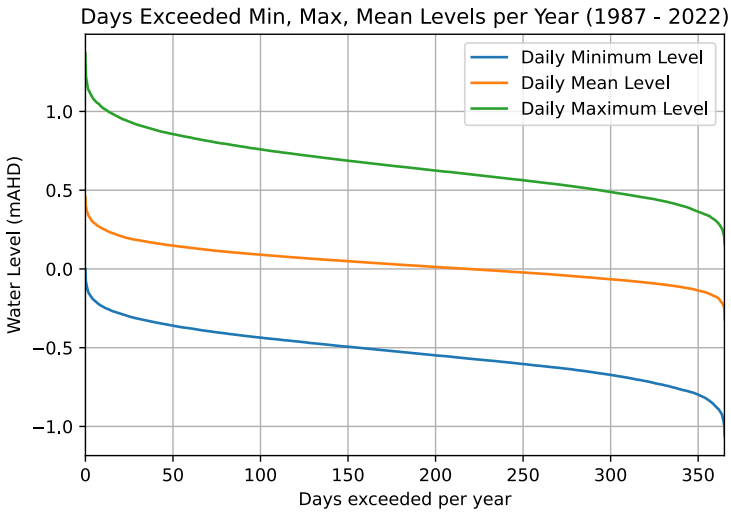
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.4	0.00000	5	5	0.00043371
1.3	0.00007	81	86	0.0074598
1.2	0.00038	443	529	0.045887
1.1	0.00166	1918	2447	0.21226
1.0	0.00455	5246	7693	0.66731
0.9	0.01038	11970	19663	1.7056
0.8	0.02030	23404	43067	3.7357
0.7	0.03449	39763	82830	7.1849
0.6	0.05085	58625	141455	12.27
0.5	0.06547	75472	216927	18.817
0.4	0.07793	89843	306770	26.61
0.3	0.08460	97533	404303	35.07
0.2	0.08465	97586	501889	43.535
0.1	0.08162	94093	595982	51.697
0.0	0.08139	93829	689811	59.836
-0.1	0.08659	99825	789636	68.495
-0.2	0.09009	103865	893501	77.504
-0.3	0.08488	97850	991351	85.992
-0.4	0.06712	77377	1068728	92.704
-0.5	0.04263	49150	1117878	96.967
-0.6	0.02016	23236	1141114	98.983
-0.7	0.00782	9013	1150127	99.764
-0.8	0.00200	2311	1152438	99.965
-0.9	0.00032	374	1152812	99.997
-1.0	0.00003	30	1152842	100

Station Information	
Station no.	219470
Station name	Bermagui
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	237453
Northing	5964777

Summary Statistics	
Time interval (mins)	15
Start of record	29/07/1987
Highest water level recorded (m)	1.296
Date recorded	06/11/1994
Lowest water level recorded (m)	-1.134
Date recorded	12/08/1995







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-219470

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Bermagui (219470)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
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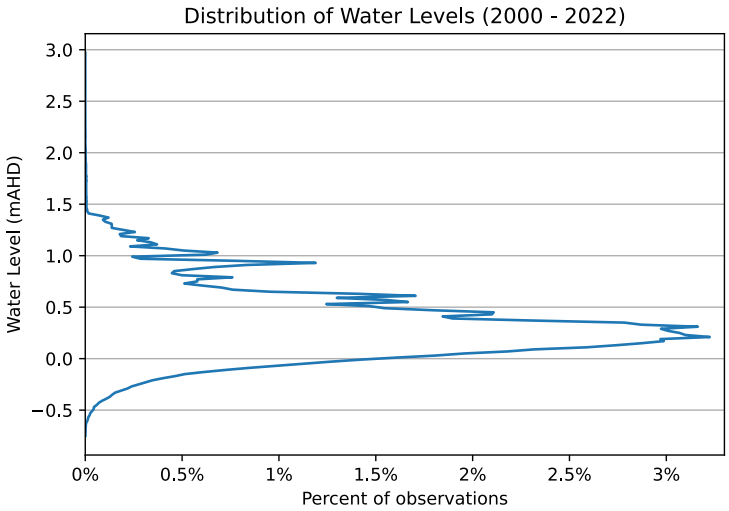
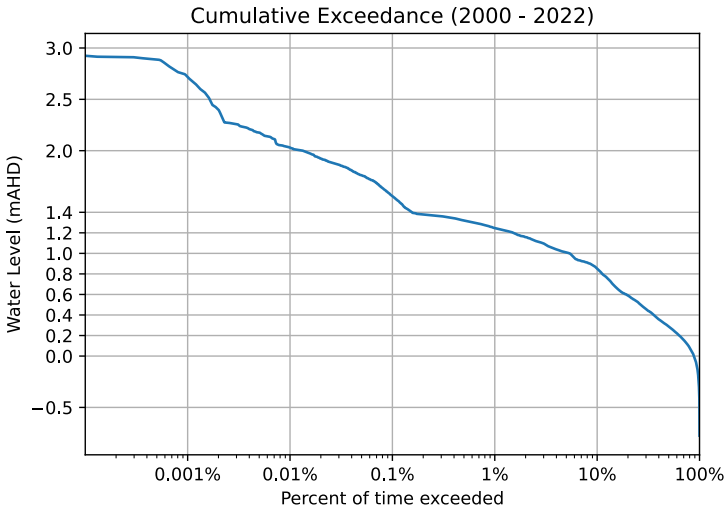
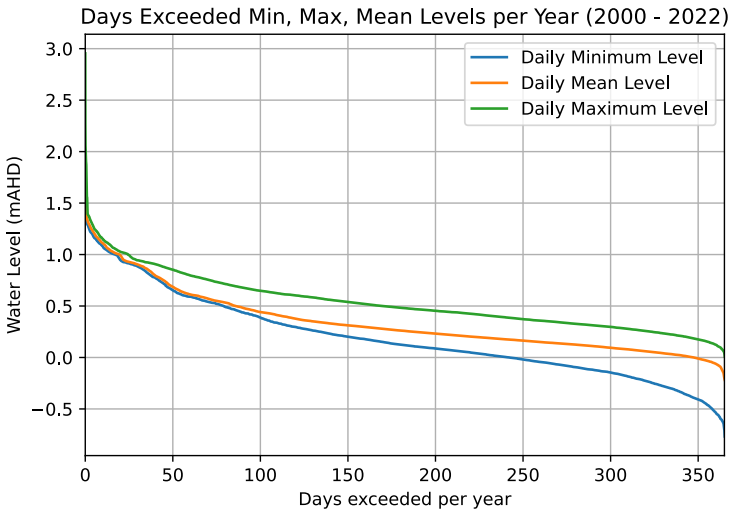
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
3.0	0.00001	6	6	0.00080729
2.8	0.00001	4	10	0.0013455
2.6	0.00001	5	15	0.0020182
2.4	0.00002	18	33	0.0044401
2.2	0.00009	67	100	0.013455
2.0	0.00028	207	307	0.041306
1.8	0.00048	356	663	0.089206
1.6	0.00066	493	1156	0.15554
1.4	0.01357	10086	11242	1.5126
1.2	0.03859	28679	39921	5.3713
1.0	0.05883	43726	83647	11.255
0.8	0.08040	59756	143403	19.295
0.6	0.16469	122402	265805	35.764
0.4	0.27701	205883	471688	63.465
0.2	0.24884	184944	656632	88.349
0.0	0.08925	66334	722966	97.274
-0.2	0.02240	16648	739614	99.514
-0.4	0.00457	3400	743014	99.972
-0.6	0.00028	211	743225	100

Station Information	
Station no.	219410
Station name	Bega River
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	766021
Northing	5933983

Summary Statistics	
Time interval (mins)	15
Start of record	07/11/2000
Highest water level recorded (m)	2.980
Date recorded	22/03/2011
Lowest water level recorded (m)	-0.766
Date recorded	21/01/2022







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-219410

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Bega River (219410)
FREQUENCY DISTRIBUTION ANALYSIS

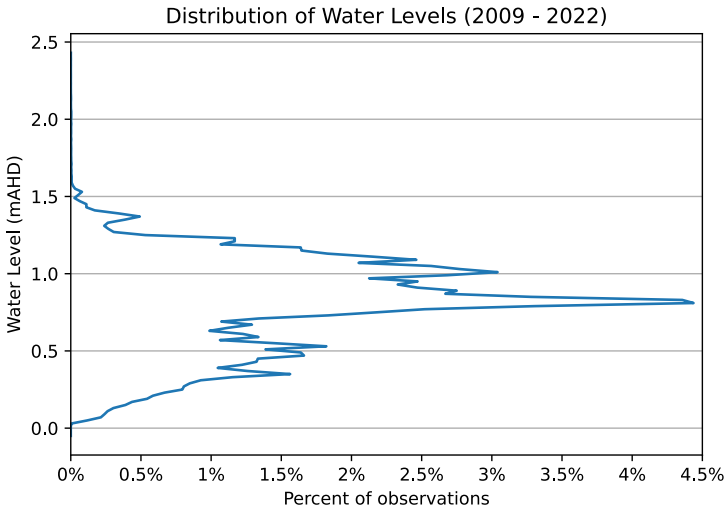
Manly Hydraulics Laboratory

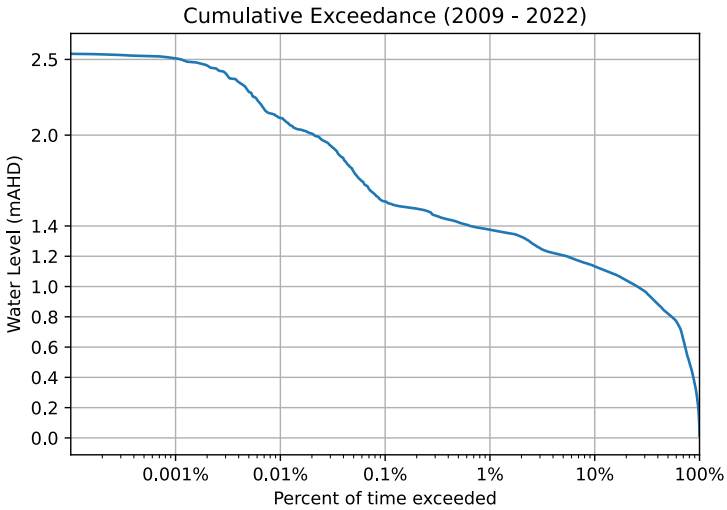
MHL2971
Figure
A276

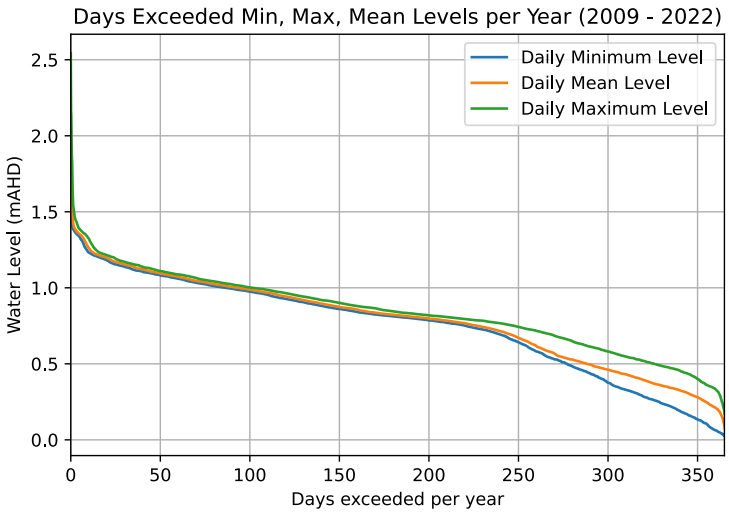
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.5	0.00002	9	9	0.0019685
2.4	0.00002	8	17	0.0037182
2.3	0.00002	8	25	0.005468
2.2	0.00004	19	44	0.0096236
2.1	0.00010	46	90	0.019685
2.0	0.00013	59	149	0.032589
1.9	0.00011	52	201	0.043963
1.8	0.00014	63	264	0.057742
1.7	0.00023	104	368	0.080489
1.6	0.00167	763	1131	0.24737
1.5	0.00397	1817	2948	0.64478
1.4	0.01727	7898	10846	2.3722
1.3	0.03031	13858	24704	5.4032
1.2	0.07805	35686	60390	13.208
1.1	0.12402	56701	117091	25.61
1.0	0.12349	56460	173551	37.959
0.9	0.16656	76154	249705	54.615
0.8	0.12596	57592	307297	67.212
0.7	0.05805	26542	333839	73.017
0.6	0.06940	31732	365571	79.957
0.5	0.07298	33367	398938	87.255
0.4	0.06080	27798	426736	93.335
0.3	0.03867	17679	444415	97.202
0.2	0.02093	9570	453985	99.295
0.1	0.00703	3216	457201	99.999

Station Information	
Station no.	219415
Station name	Back Lagoon
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	759850
Northing	5914073

Summary Statistics	
Time interval (mins)	15
Start of record	27/02/2009
Highest water level recorded (m)	2.440
Date recorded	15/02/2010
Lowest water level recorded (m)	-0.070
Date recorded	06/03/2010







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-219415

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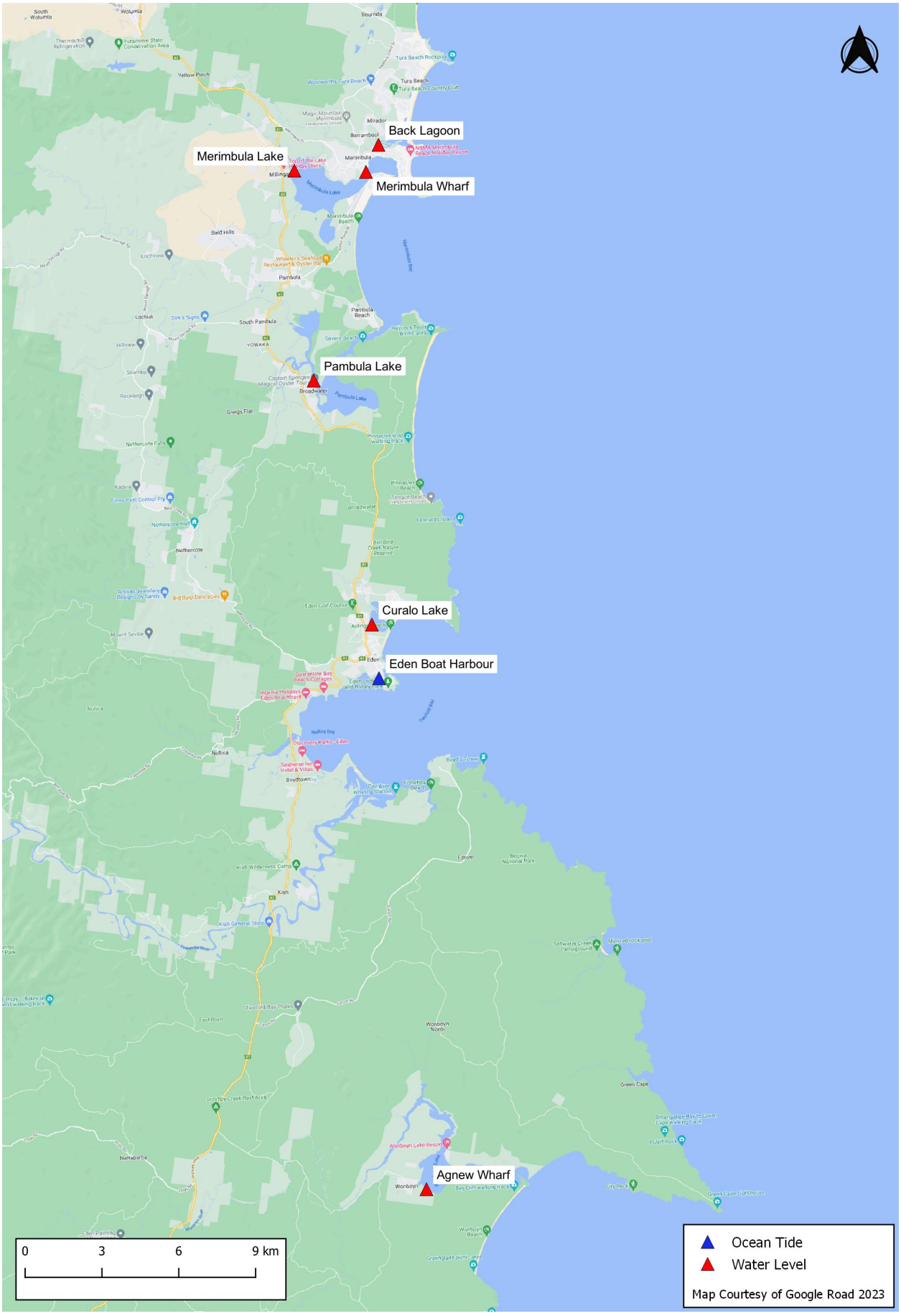
Back Lagoon (219415)
FREQUENCY DISTRIBUTION ANALYSIS

Manly Hydraulics Laboratory

MHL2971
Figure
A277



NSW GOVERNMENT

STATION LOCATIONS
EDEN REGION

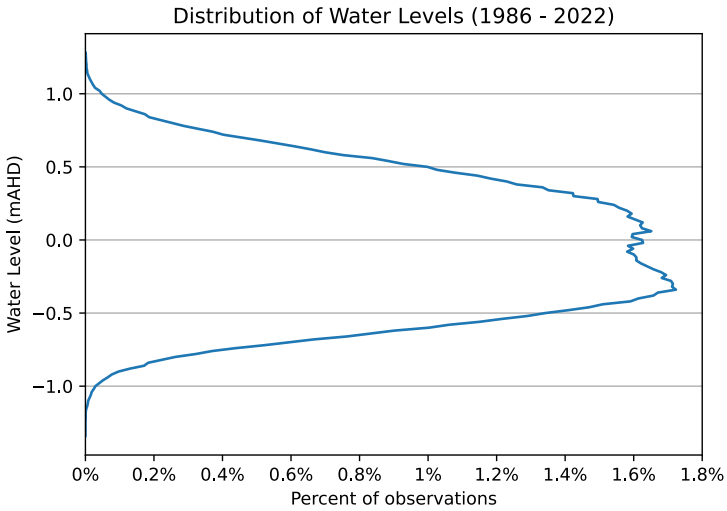
Manly Hydraulics Laboratory

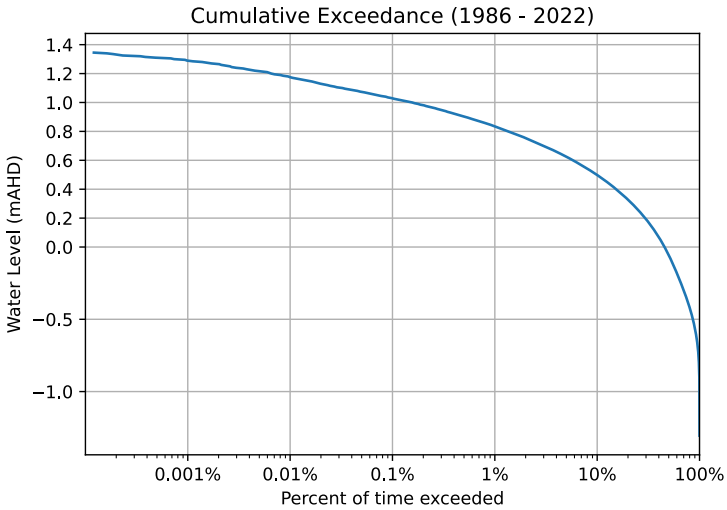
MHL2971
Figure
A278

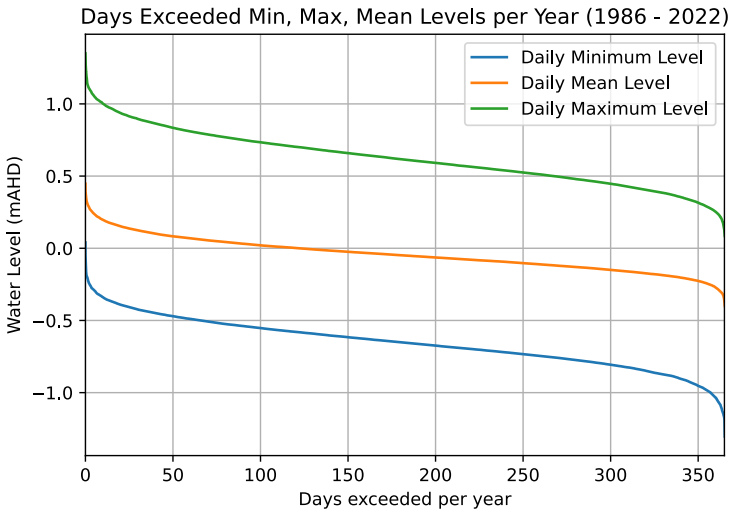
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.3	0.00006	71	71	0.0058204
1.2	0.00026	316	387	0.031725
1.1	0.00123	1506	1893	0.15518
1.0	0.00363	4427	6320	0.51809
0.9	0.00845	10313	16633	1.3635
0.8	0.01645	20064	36697	3.0083
0.7	0.02798	34134	70831	5.8065
0.6	0.04101	50025	120856	9.9074
0.5	0.05429	66227	187083	15.336
0.4	0.06596	80463	267546	21.933
0.3	0.07515	91676	359222	29.448
0.2	0.07988	97443	456665	37.436
0.1	0.08086	98637	555302	45.522
0.0	0.08015	97770	653072	53.537
-0.1	0.08076	98519	751591	61.613
-0.2	0.08422	102738	854329	70.035
-0.3	0.08478	103424	957753	78.514
-0.4	0.07595	92651	1050404	86.109
-0.5	0.06059	73907	1124311	92.167
-0.6	0.04166	50818	1175129	96.333
-0.7	0.02243	27366	1202495	98.577
-0.8	0.00969	11826	1214321	99.546
-0.9	0.00330	4026	1218347	99.876
-1.0	0.00099	1208	1219555	99.975
-1.1	0.00022	271	1219826	99.997
-1.2	0.00002	21	1219847	99.999
-1.3	0.00000	1	1219848	99.999

Station Information	
Station no.	220470
Station name	Eden Boat Harbour
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	758557
Northing	5893267

Summary Statistics	
Time interval (mins)	15
Start of record	16/09/1986
Highest water level recorded (m)	1.296
Date recorded	13/07/1995
Lowest water level recorded (m)	-1.364
Date recorded	21/01/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-220470

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Eden Boat Harbour (220470)
FREQUENCY DISTRIBUTION ANALYSIS

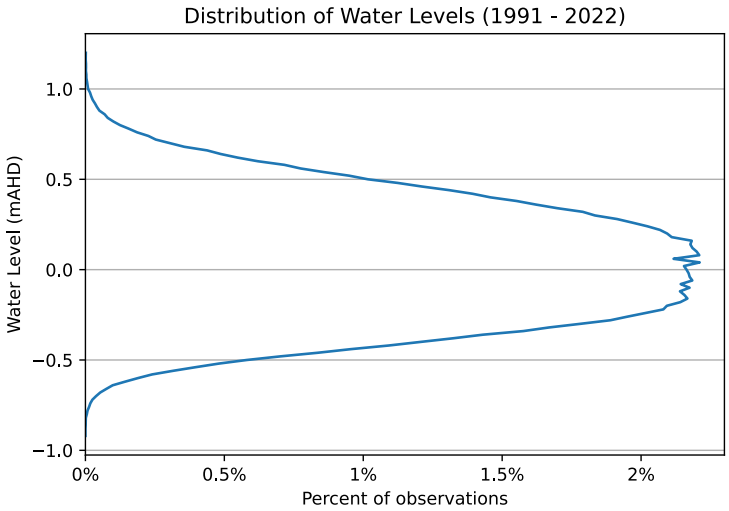
Manly Hydraulics Laboratory

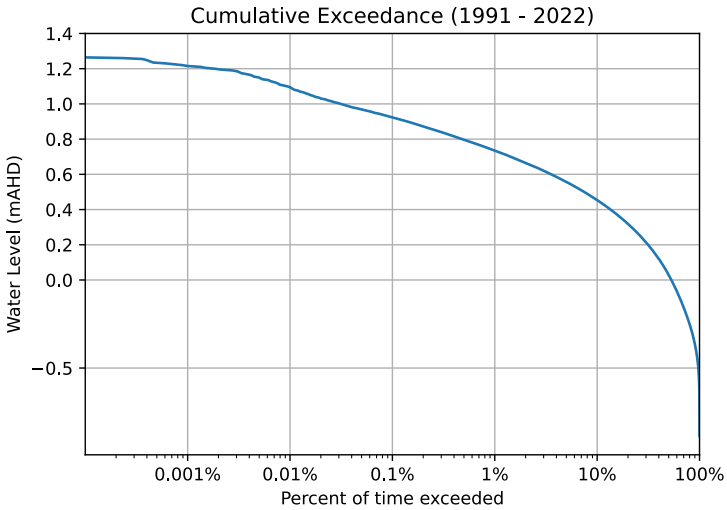
MHL2971
Figure
A279

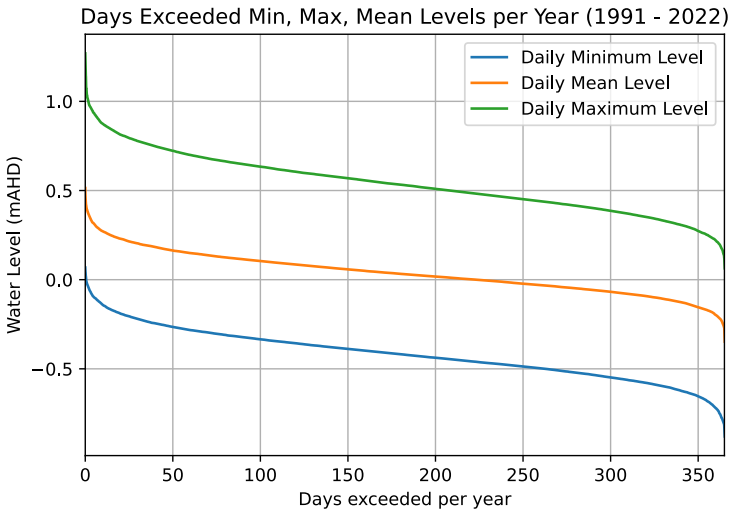
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.3	0.00002	20	20	0.0018534
1.2	0.00008	81	101	0.0093597
1.1	0.00022	235	336	0.031137
1.0	0.00107	1159	1495	0.13854
0.9	0.00342	3689	5184	0.4804
0.8	0.00946	10212	15396	1.4267
0.7	0.02134	23024	38420	3.5604
0.6	0.03919	42291	80711	7.4795
0.5	0.06055	65342	146053	13.535
0.4	0.08121	87636	233689	21.656
0.3	0.09807	105832	339521	31.463
0.2	0.10749	115988	455509	42.212
0.1	0.10892	117534	573043	53.104
0.0	0.10837	116940	689983	63.941
-0.1	0.10778	116310	806293	74.719
-0.2	0.10030	108235	914528	84.749
-0.3	0.07779	83947	998475	92.528
-0.4	0.04791	51695	1050170	97.319
-0.5	0.02012	21711	1071881	99.331
-0.6	0.00559	6033	1077914	99.89
-0.7	0.00102	1096	1079010	99.992
-0.8	0.00008	90	1079100	100

Station Information	
Station no.	220410
Station name	Merimbula Wharf
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	759297
Northing	5913048

Summary Statistics	
Time interval (mins)	15
Start of record	21/03/1991
Highest water level recorded (m)	1.220
Date recorded	18/08/2001
Lowest water level recorded (m)	-0.940
Date recorded	09/12/1993







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-220410

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Merimbula Wharf (220410)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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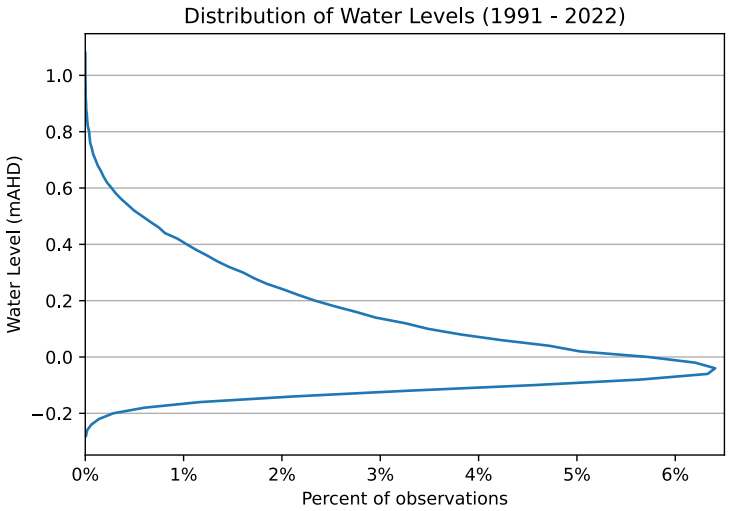
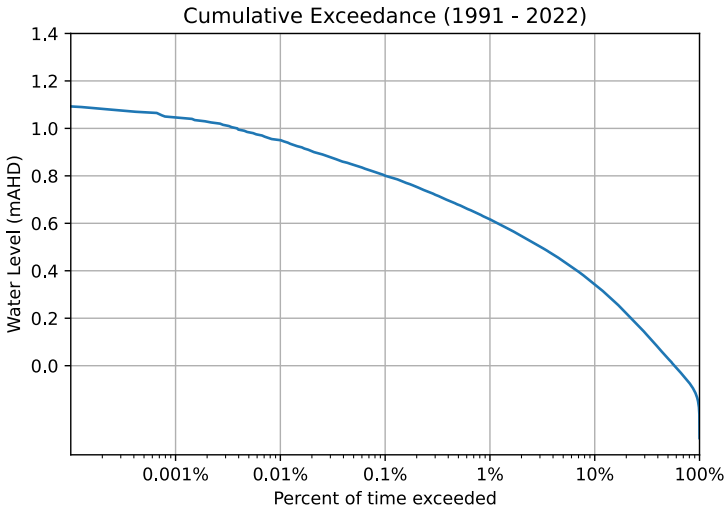
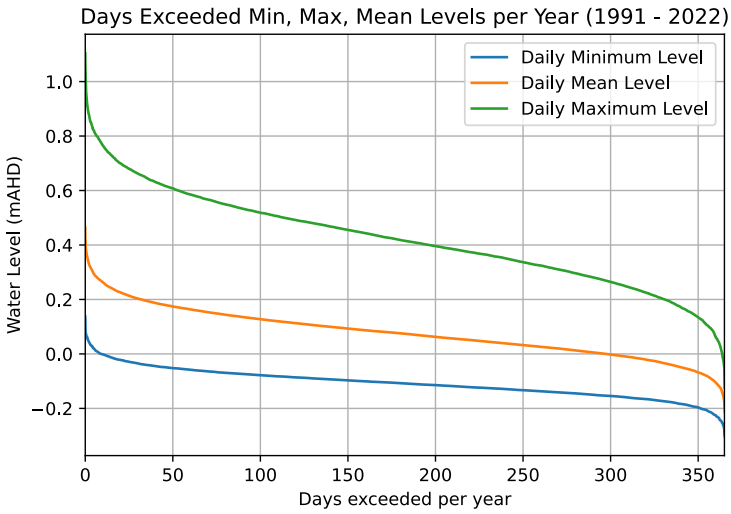
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.1	0.00004	41	41	0.0038533
1.0	0.00017	181	222	0.020864
0.9	0.00080	850	1072	0.10075
0.8	0.00282	2996	4068	0.38232
0.7	0.00799	8497	12565	1.1809
0.6	0.01880	19999	32564	3.0605
0.5	0.03737	39761	72325	6.7973
0.4	0.06207	66044	138369	13.004
0.3	0.09349	99470	237839	22.353
0.2	0.13835	147208	385047	36.188
0.1	0.21281	226435	611482	57.469
0.0	0.30316	322565	934047	87.785
-0.1	0.11703	124524	1058571	99.488
-0.2	0.00512	5444	1064015	100
-0.3	0.00000	3	1064018	100

Station Information	
Station no.	220405
Station name	Merimbula Lake
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	756506
Northing	5913274

Summary Statistics	
Time interval (mins)	15
Start of record	21/03/1991
Highest water level recorded (m)	1.090
Date recorded	23/06/1998
Lowest water level recorded (m)	-0.305
Date recorded	15/10/2018







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Merimbula Lake (220405)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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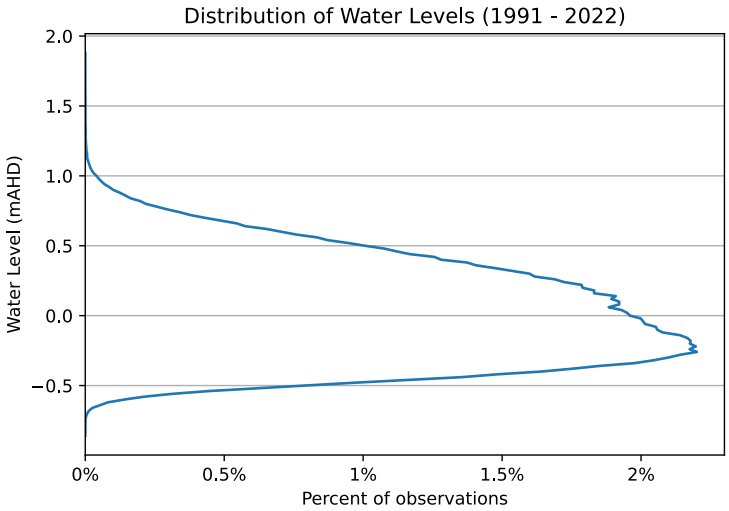
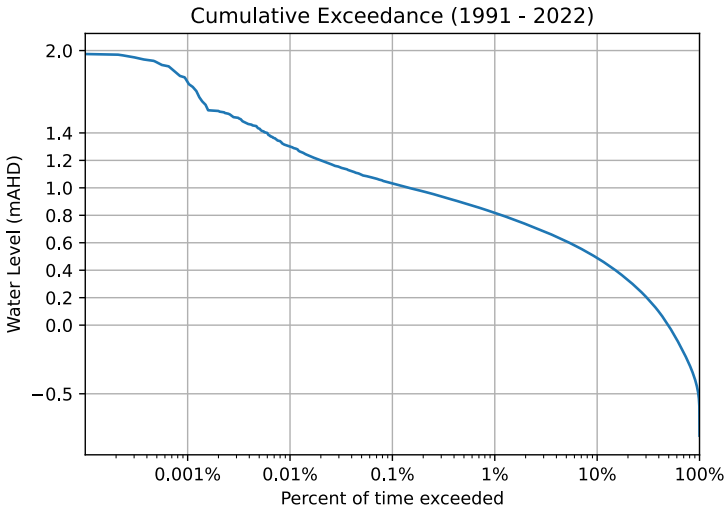
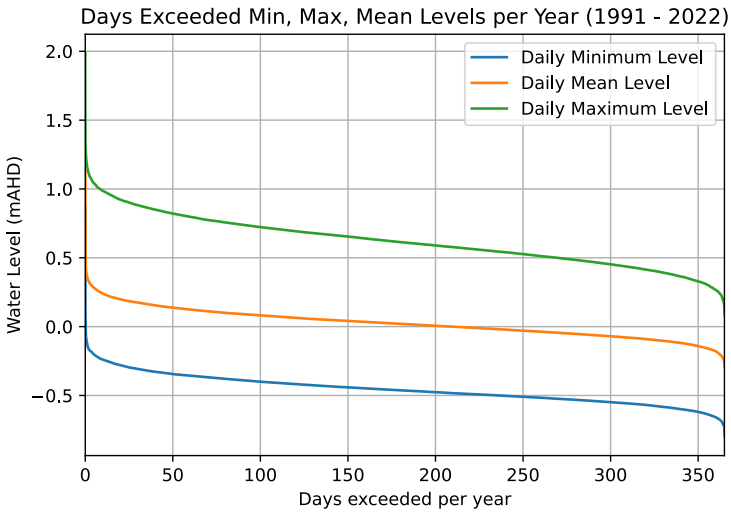
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
2.0	0.00001	6	6	0.00056158
1.9	0.00000	5	11	0.0010296
1.8	0.00000	3	14	0.0013103
1.7	0.00000	3	17	0.0015911
1.6	0.00002	19	36	0.0033695
1.5	0.00003	29	65	0.0060838
1.4	0.00004	43	108	0.010108
1.3	0.00010	104	212	0.019842
1.2	0.00029	305	517	0.048389
1.1	0.00097	1036	1553	0.14536
1.0	0.00303	3235	4788	0.44814
0.9	0.00727	7770	12558	1.1754
0.8	0.01486	15881	28439	2.6618
0.7	0.02691	28749	57188	5.3526
0.6	0.04117	43987	101175	9.4696
0.5	0.05625	60102	161277	15.095
0.4	0.07072	75561	236838	22.167
0.3	0.08414	89892	326730	30.581
0.2	0.09253	98864	425594	39.834
0.1	0.09606	102631	528225	49.44
0.0	0.10035	107212	635437	59.475
-0.1	0.10621	113480	748917	70.096
-0.2	0.10889	116340	865257	80.985
-0.3	0.09716	103808	969065	90.701
-0.4	0.06600	70520	1039585	97.301
-0.5	0.02372	25342	1064927	99.673
-0.6	0.00315	3367	1068294	99.988
-0.7	0.00012	123	1068417	100

Station Information	
Station no.	220415
Station name	Pambula Lake
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	756743
Northing	5905036

Summary Statistics	
Time interval (mins)	15
Start of record	22/03/1991
Highest water level recorded (m)	1.900
Date recorded	11/02/1992
Lowest water level recorded (m)	-0.880
Date recorded	16/12/1992







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-220415

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Pambula Lake (220415)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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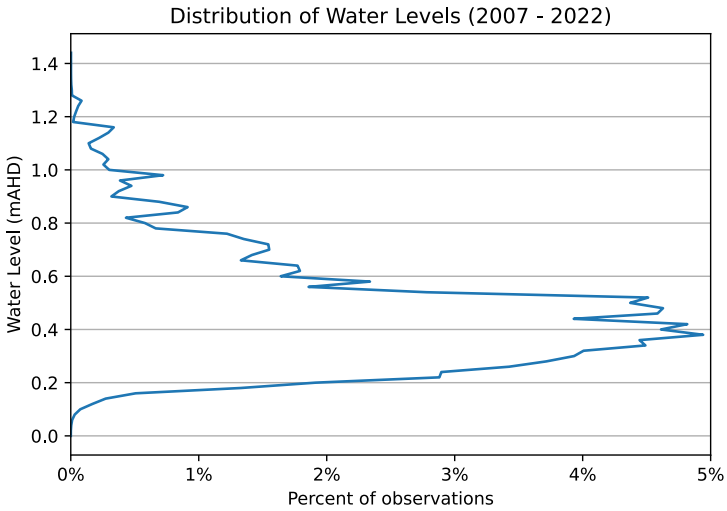
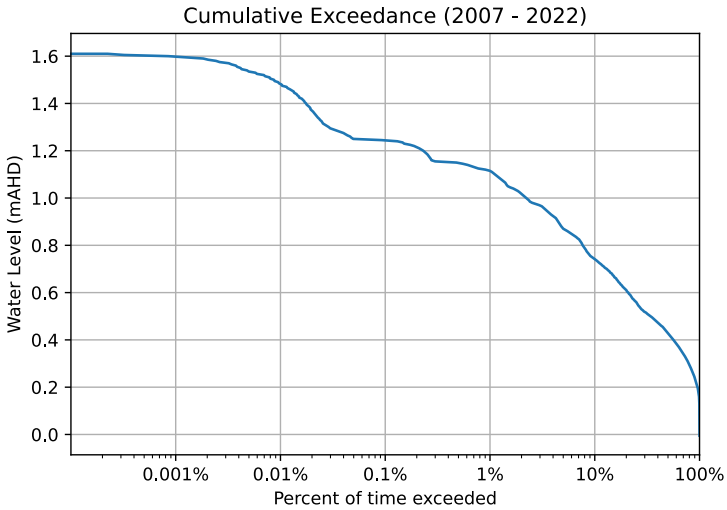
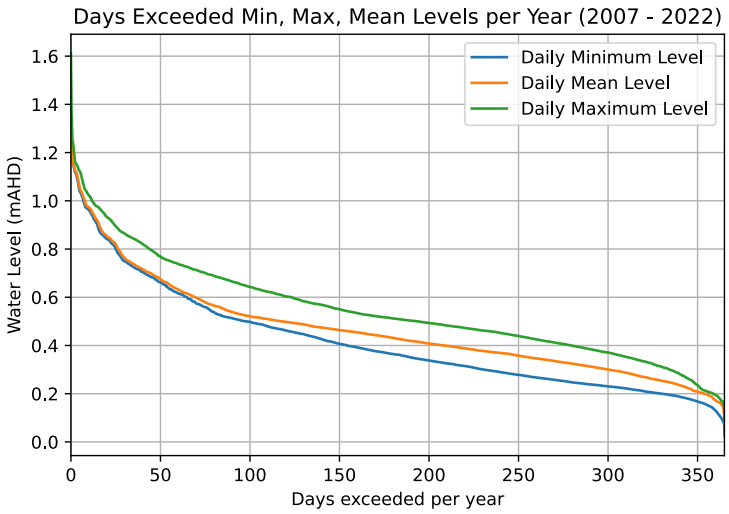
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.6	0.00008	40	40	0.0078602
1.5	0.00009	45	85	0.016703
1.4	0.00011	58	143	0.0281
1.3	0.00202	1026	1169	0.22971
1.2	0.00896	4559	5728	1.1256
1.1	0.01094	5567	11295	2.2195
1.0	0.02255	11477	22772	4.4748
0.9	0.03191	16238	39010	7.6656
0.8	0.05360	27275	66285	13.025
0.7	0.07859	39993	106278	20.884
0.6	0.13128	66807	173085	34.012
0.5	0.22332	113644	286729	56.343
0.4	0.22496	114479	401208	78.839
0.3	0.16850	85750	486958	95.689
0.2	0.04189	21320	508278	99.879
0.1	0.00120	611	508889	99.999
0.0	0.00000	1	508890	99.999

Station Information	
Station no.	220420
Station name	Lake Curalo
Datum	Australian Height Datum (1971)
MGA zone	55
Easting	758413
Northing	5895378

Summary Statistics	
Time interval (mins)	15
Start of record	28/06/2007
Highest water level recorded (m)	1.450
Date recorded	15/02/2010
Lowest water level recorded (m)	-0.020
Date recorded	03/10/2010







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Lake Curalo (220420)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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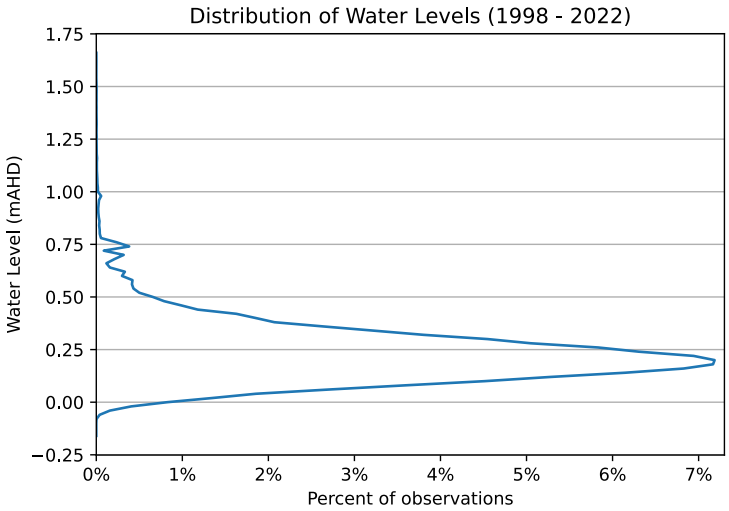
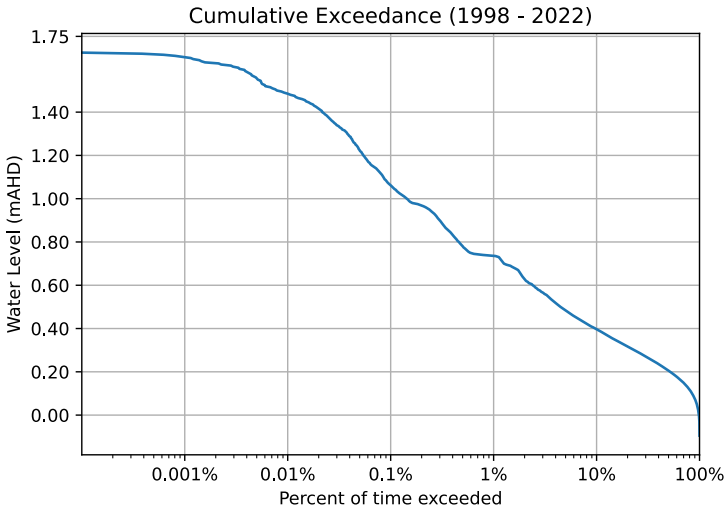
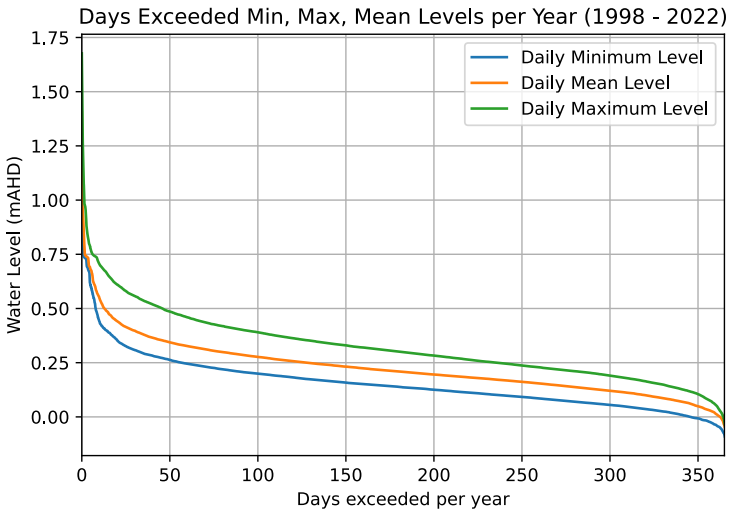
Water Level	Normalised Frequency	Number of Observations	Cumulative Observations	Percentage Exceedence
1.7	0.00003	28	28	0.0034009
1.6	0.00004	37	65	0.007895
1.5	0.00014	113	178	0.02162
1.4	0.00016	135	313	0.038017
1.3	0.00016	135	448	0.054415
1.2	0.00031	252	700	0.085023
1.1	0.00059	484	1184	0.14381
1.0	0.00155	1279	2463	0.29916
0.9	0.00161	1327	3790	0.46034
0.8	0.00799	6578	10368	1.2593
0.7	0.01137	9363	19731	2.3966
0.6	0.02066	17008	36739	4.4624
0.5	0.05239	43136	79875	9.7017
0.4	0.13590	111887	191762	23.292
0.3	0.28672	236061	427823	51.964
0.2	0.32606	268446	696269	84.57
0.1	0.14002	115276	811545	98.571
0.0	0.01429	11761	823306	100

Station Information	
Station no.	220452
Station name	Wonboyn Lake
Datum	Australian Height Datum (1971)
MGA zone	56
Easting	226665
Northing	5873012

Summary Statistics	
Time interval (mins)	15
Start of record	01/07/1998
Highest water level recorded (m)	1.671
Date recorded	24/03/2021
Lowest water level recorded (m)	-0.180
Date recorded	27/11/1998







For additional station and instrumentation details refer to https://www.mhl.nsw.gov.au/Station-220452

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Wonboyn Lake (220452)
FREQUENCY DISTRIBUTION ANALYSIS

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Figure
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Appendix B Glossary of terms

Amplitude (H)	One-half the range of a constituent tide. By analogy, it may be applied also to the maximum speed of a constituent current.
Automatic Tide Gauge	An instrument that automatically registers the rise and fall of the tide. In some instruments, the registration is accomplished by recording the heights at regular time intervals in digital format.
Australian Height Datum (AHD 1971)	The Australian Height Datum is a geodetic datum for altitude measurement in Australia. According to Geoscience Australia, "In 1971 the mean sea level for 1966-1968 was assigned the value of zero on the Australian Height Datum at thirty tide gauges around the coast of the Australian continent. The resulting datum surface, with minor modifications in two metropolitan areas, has been termed the Australian Height Datum (AHD) and was adopted by the National Mapping Council as the datum to which all vertical control for mapping (and other surveying functions) is to be referred.
Bathymetry	Geomorphology mapping of underwater sea beds, lake floors or river floors
Benchmark (BM)	A fixed physical object or mark used as reference for a vertical datum. A tidal benchmark is one near a tide station to which the tide staff and tidal datums are referred. A primary benchmark is the principal (or only) mark of a group of tidal benchmarks to which the tide staff and tidal datums are referred.
Constituent	One of the harmonic elements in a mathematical expression for the tide-producing force and in corresponding formulas for the tide or tidal current. Each constituent represents a periodic change or variation in the relative positions of the earth, moon and sun. A single constituent is usually written in the form y = A cos (at + á), in which y is a function of time as expressed by the symbol t and is reckoned from a specific origin. The coefficient A is called the amplitude of the constituent and is a measure of its relative importance. The angle (at + á) changes uniformly and its value at any time is called the phase of the constituent. The speed of the constituent is the rate of change in its phase and is represented by the symbol a in the formula. The quantity a is the phase of the constituent at the initial instant from which the time is reckoned. The period of the constituent is the time required for the phase to change through 360° and is the cycle of the astronomical condition represented by the constituent.
Diurnal	Having a period or cycle of approximately one tidal day. Thus, the tide is said to be diurnal when only one high water and one low water occur during a tidal day, and the tidal current is said to be diurnal when there is a single flood and a single ebb period of a reversing current in the tidal day. A rotary current is diurnal if it changes its direction through all points of the compass once each tidal day. A diurnal constituent is one which has a single period in the constituent day. The symbol for such a constituent is the subscript 1.
Entrance Conditions	The interface between any lake or estuarine system with the ocean where this may be dynamic and change or permanently open to ocean influence.

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Estuary	An embayment of the coast in which fresh river water entering at its head mixes with the relatively saline ocean water. When tidal action is the dominant mixing agent it is usually termed a tidal estuary. Also, the lower reaches and mouth of a river emptying directly into the sea where tidal mixing takes place. The latter is sometimes called a river estuary.
Harmonic Analysis	Process of measuring or calculating the relative amplitudes and frequencies of all the significant harmonic components present in a given wave form.
ICOLL	Intermittently closed or open (coastal) lakes and lagoons
Lunar Tide	That part of the tide on the earth due solely to the moon as distinguished from that part due to the sun.
M_2	Principal lunar semi-diurnal constituent. This constituent represents the rotation of the Earth with respect to the Moon. Speed = 2T - 2s + 2h = 28.984,104,2° per solar hour.
Mean High Water Level (MHWL)	A tidal datum. The average of all the high waters observed over the National Tidal Datum Epoch. For stations with shorter periods of record, simultaneous observational comparisons are made with a control tide station to derive the equivalent datum.
Phase	1. Any recurring aspect of a periodic phenomenon, such as new moon, high water, flood strength, etc. 2. A particular instant of a periodic function expressed in angular measure and reckoned from the time of its maximum value, the entire period of the function being taken as 360°. The maximum and minimum of a harmonic constituent have phase values of 0° and 180°, respectively.
Range of Tide	The difference in height between consecutive high and low waters. The mean range is the difference in height between mean high water and mean low water. The great diurnal range or diurnal range is the difference in height between mean higher high water and mean lower low water.
Semi-Diurnal	Having a period or cycle of approximately one-half of a tidal day. The predominant type of tide throughout the world is semi-diurnal, with two high waters and two low waters each tidal day. The tidal current is said to be semi-diurnal when there are two flood and two ebb periods each day. A semi-diurnal constituent has two maxima and two minima each constituent day, and its symbol is the subscript 2.
Shallow Water Constituent	A short-period harmonic term introduced into the formula of tidal (or tidal current) constituents to take account of the change in the form of a tide wave resulting from shallow water conditions. Shallow water constituents include the overtides and compound tides.
Tidal Anomaly	The difference between the recorded and predicted tide level generally representative of the non-astronomical factors influencing coastal water levels such as storm surge.
Tidal Characteristics	Principally, those features relating to the time, range, and type of tide.
Tidal Limit	That point along a tidal estuary above which there is no tidal influence

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Tide	The periodic rise and fall of the water resulting from gravitational interactions between Sun, Moon and Earth. The vertical component of the particulate motion of a tidal wave. Although the accompanying horizontal movement of the water is part of the same phenomenon, it is preferable to designate this motion as tidal current.
Z_0	Symbol recommended by the International Hydrographic Organisation to represent the elevation of mean sea level above chart datum.

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