CoastSnap Gadhu

Half-yearly Update Report (June 2023)

UNSW
Water Research
Laboratory

UNSW
SYDNEY

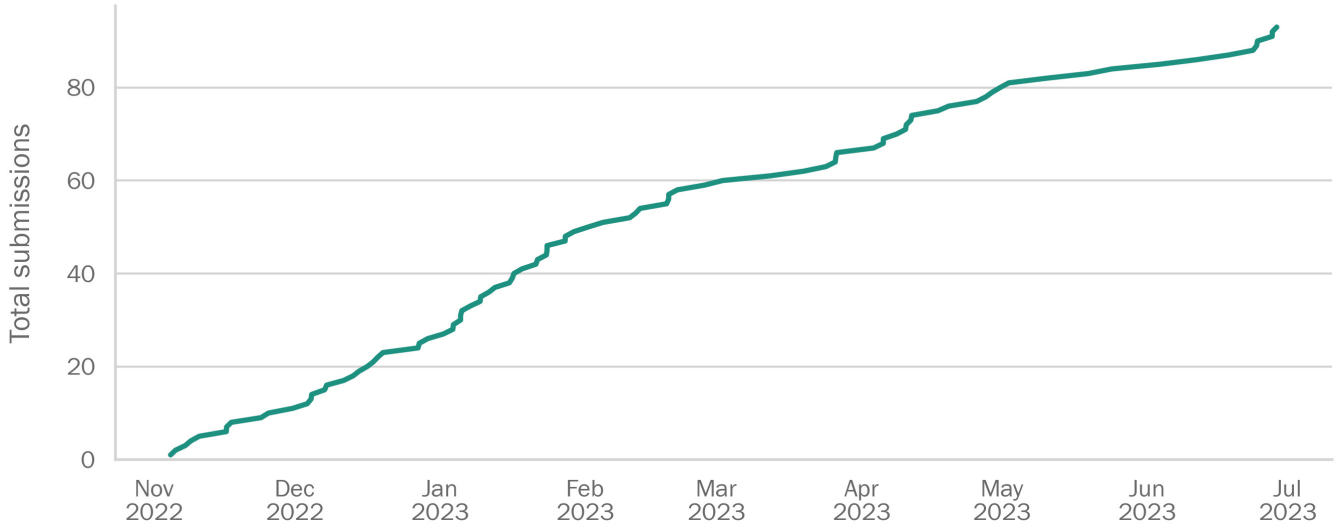
CoastSnap
community beach monitoring

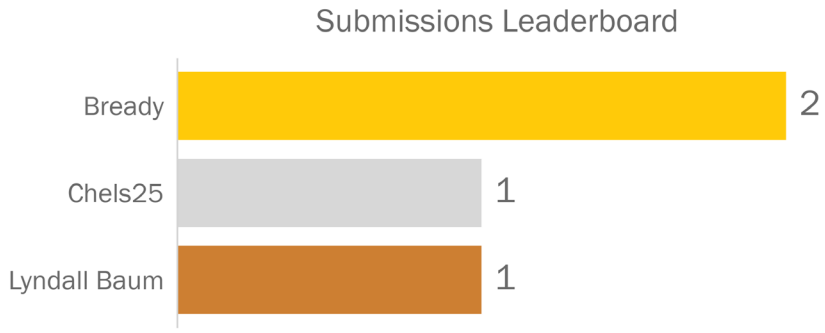
CoastSnap | coastsnap@unsw.edu.au
Water Research Laboratory, UNSW Sydney
School of Civil and Environmental Engineering | wrl.unsw.edu.au

Participation Summary
Since Installation

93
Total images submitted

2.7
Submission rate (per week)





Bready
Local champion

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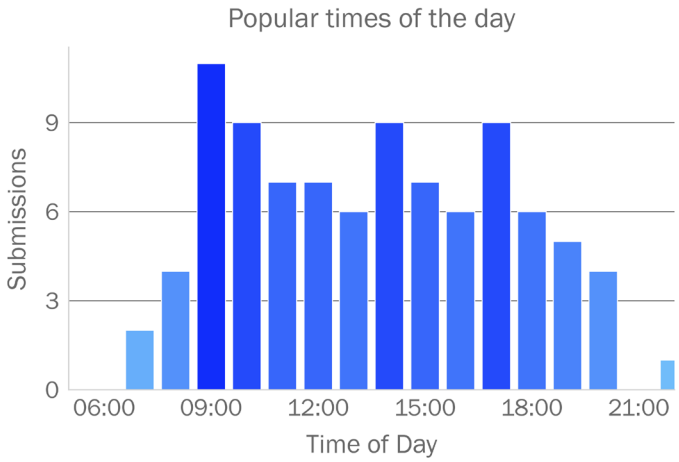
Since Installation

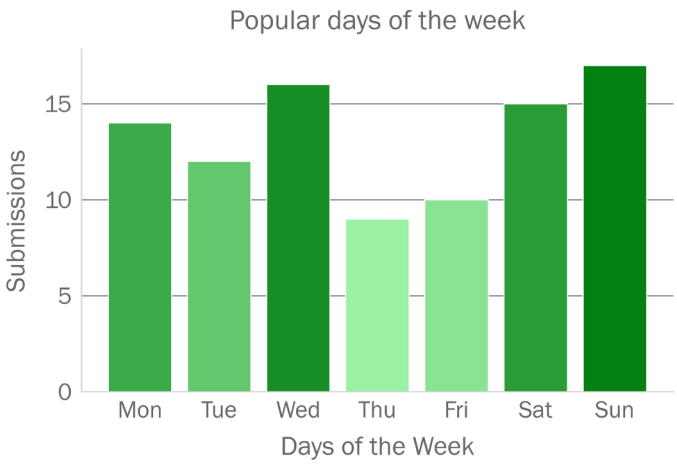


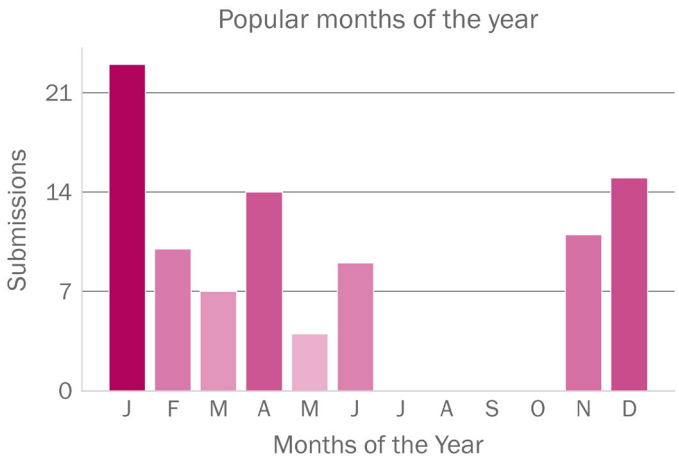
9:00

Most popular time of the day

Sunday

Most popular day of the week





January

Most popular month of the year

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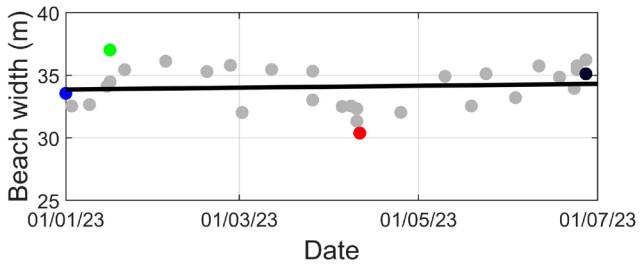
Shoreline Mapping
Last 6 Months

The figure below shows the shoreline and beach width changes at Gadhu from January 2023 to June 2023

Shorelines are mapped using photos taken near the mid-tide level. To calculate comparable beach widths, shorelines are adjusted to the mid-tide level using the beach slope.

Beach widths are calculated by the distance from the shoreline (corrected for tidal effects within the tidal tolerance) to fixed landward benchmarks along the beach. Reported beach widths refer to alongshore-averaged values over the shoreline mapping region.

Date:2023/06/27 Time:16:55 Tide:+0.29m AHD Contributor:Samisawesome1994



Beach width trend
+0.91 metres/year

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Note: the beach width trend shown in the figure refers to short-term trends over the reporting period only. This should not be used for long-term beach change analysis.

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Shoreline Mapping
Last 6 Months

The figures below show the shorelines and images corresponding the maximum and minimum beach width over the reporting period.

Date:2023/01/16 Time:09:15 Tide:-0.31m AHD Contributor:Joozy67

Date:2023/04/11 Time:12:55 Tide:+0.19m AHD Contributor:yokahontas

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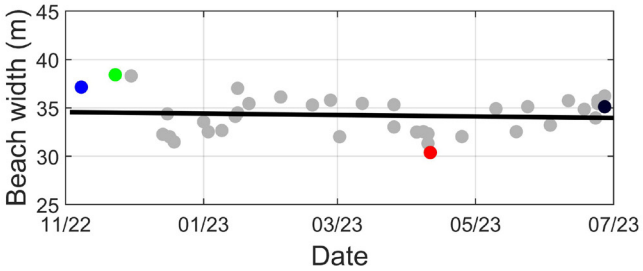
Shoreline Mapping
Since Installation

The figure below shows the shoreline and beach width changes at Gadhu since the station was installed and shoreline mapping commenced.

Date:2023/06/27 Time:16:55 Tide:+0.29m AHD Contributor:Samisawesome1994



Beach width trend
-0.90 metres/year

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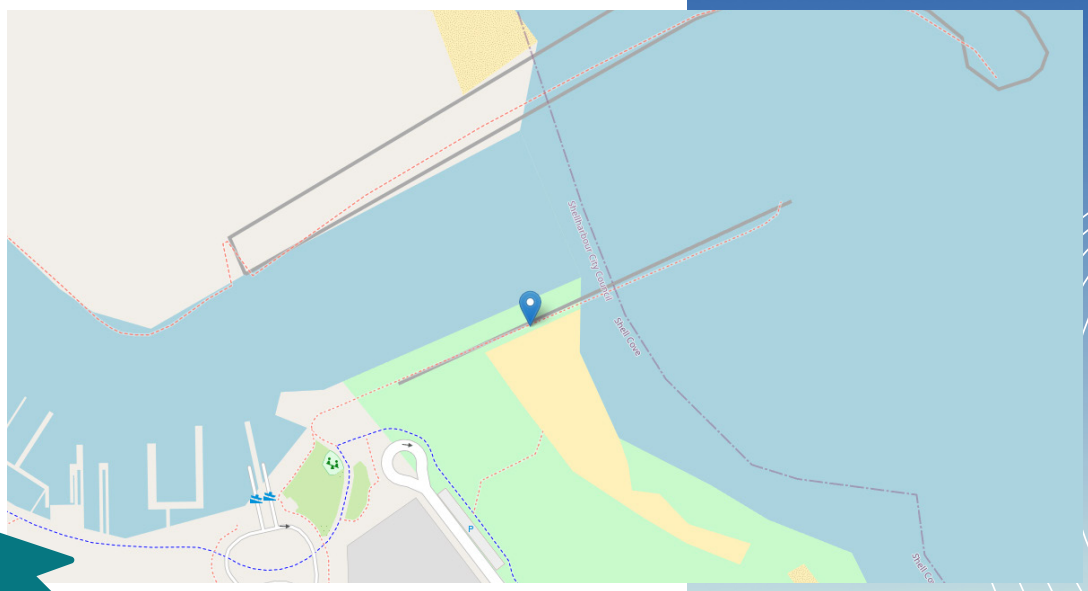
Additional information



Click on the map to see all the photos from this CoastSnap station.

For futher information, visit the CoastSnap website:
https://www.coastsnap.com/

Or visit the Water Research Laboratory to see what other projects we do:
https://www.wrl.unsw.edu.au/

For a general overview of the CoastSnap project, please refer to the following publication that was published in a special issue on community outreach initiatives in the scientific journal Continental Shelf Research:

Harley, M.D. and Kinsela, M. (2022) CoastSnap: A global citizen science program to monitor changing coastlines, Continental Shelf Research, 245, 104795, https://doi.org/10.1016/j.csr.2022.104796

For more specific technical details about how CoastSnap images can be used by scientists and engineers to map shoreline change, please refer to:

Harley, M.D., Kinsela, M., Sánchez-García, E. and Vos, K. (2019) Shoreline change mapping using crowd-sourced smartphone images, Coastal Engineering, 150, 175-189, https://doi:10.1016/j.coastaleng.2019.04.003

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