

CoastSnap Gadhu

Half-yearly Update Report (July 2024)



UNSW
Water Research
Laboratory

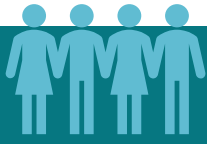


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SYDNEY



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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



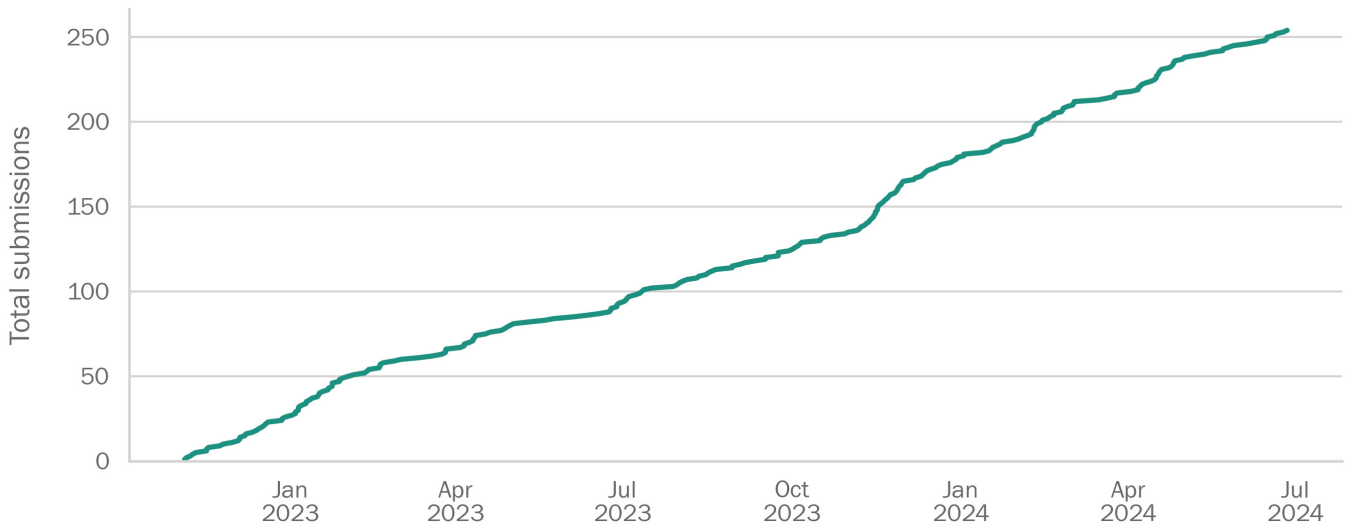
254

Total images submitted

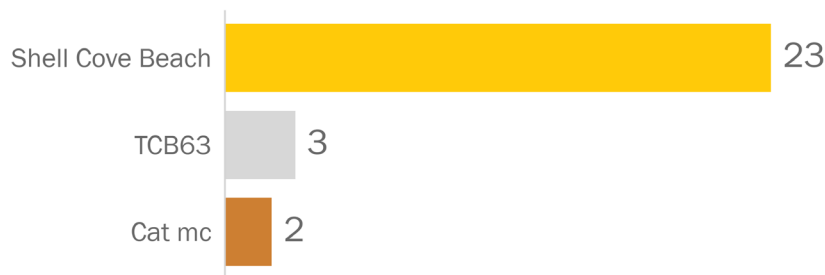


2.9

Submission rate (per week)



Submissions Leaderboard



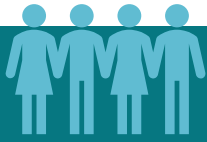
Shell Cove Beach

Local champion



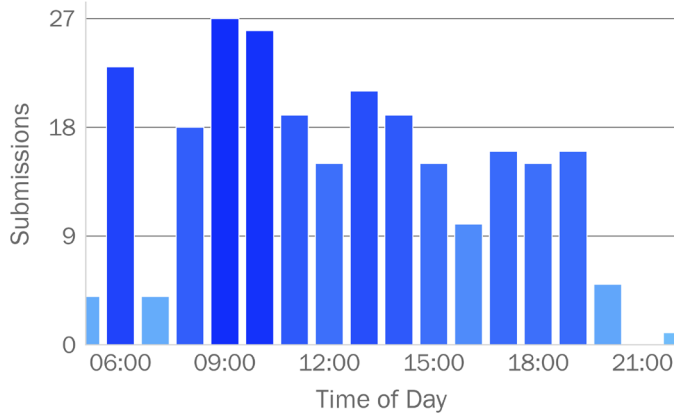
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Participation Summary Since Installation

Popular times of the day



9:00

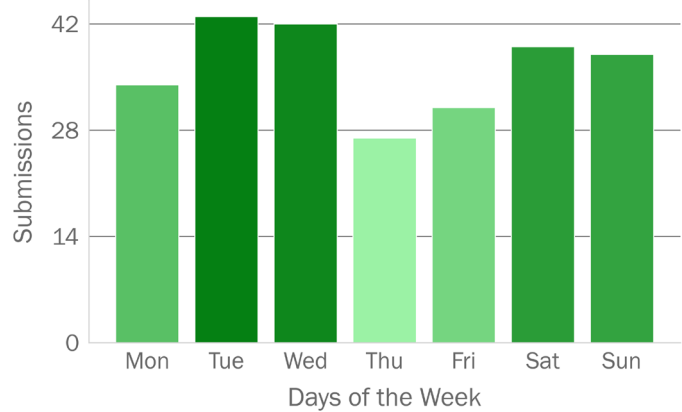
Most popular time of the day



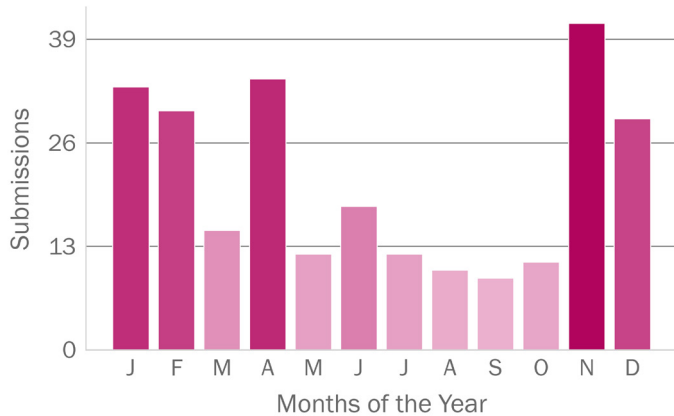
Tuesday

Most popular day of the week

Popular days of the week



Popular months of the year



November

Most popular month of the year



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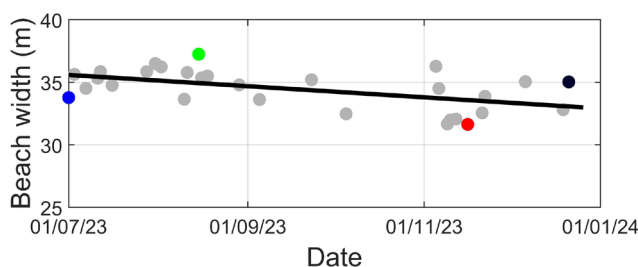
Shoreline Mapping Last 6 Months

The figure below shows the shoreline and beach width changes at Gadhu from January 2024 to July 2024

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:2023/12/21 Time:13:44 Tide:+0.28m AHD Contributor:CoastSnap_Anonymous



Beach width trend
-5.32 metres/year



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.



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:2023/08/15 Time:08:37 Tide:+0.24m AHD Contributor:CoastSnap_Anonymous



Date:2023/11/16 Time:13:04 Tide:+0.07m AHD Contributor:CoastSnap_Anonymous



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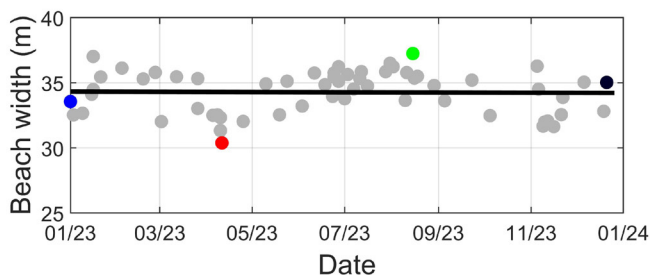
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Shoreline Mapping Last 12 Months

The figure below shows the shoreline and beach width changes at Gadhu over the last 12 months.

Date: 2023/12/21 Time: 13:44 Tide: +0.28m AHD Contributor: CoastSnap_Anonymous



Beach width trend
-0.10 metres/year



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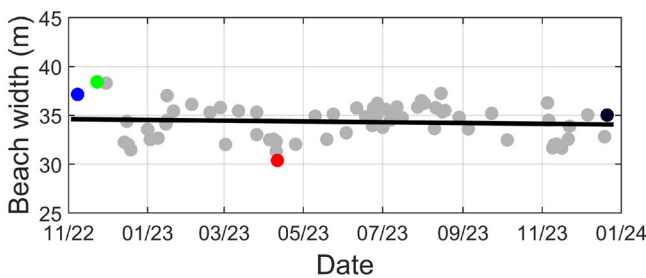
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Shoreline Mapping Since Installation

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

Date: 2023/12/21 Time: 13:44 Tide: +0.28m AHD Contributor: CoastSnap_Anonymous



Beach width trend
-0.48 metres/year

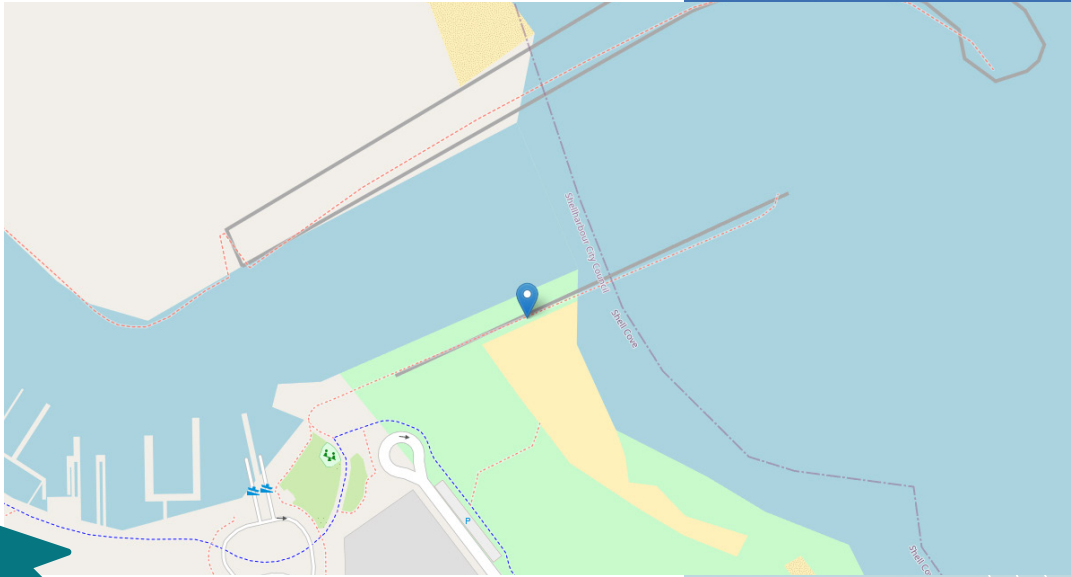


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Additional information



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



For further 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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