CoastSnap West Beach South

Quarterly Update Report (March 2025)



UNSW Water Research Laboratory

UNSW SYDNEY

CoastSnap community beach monitoring

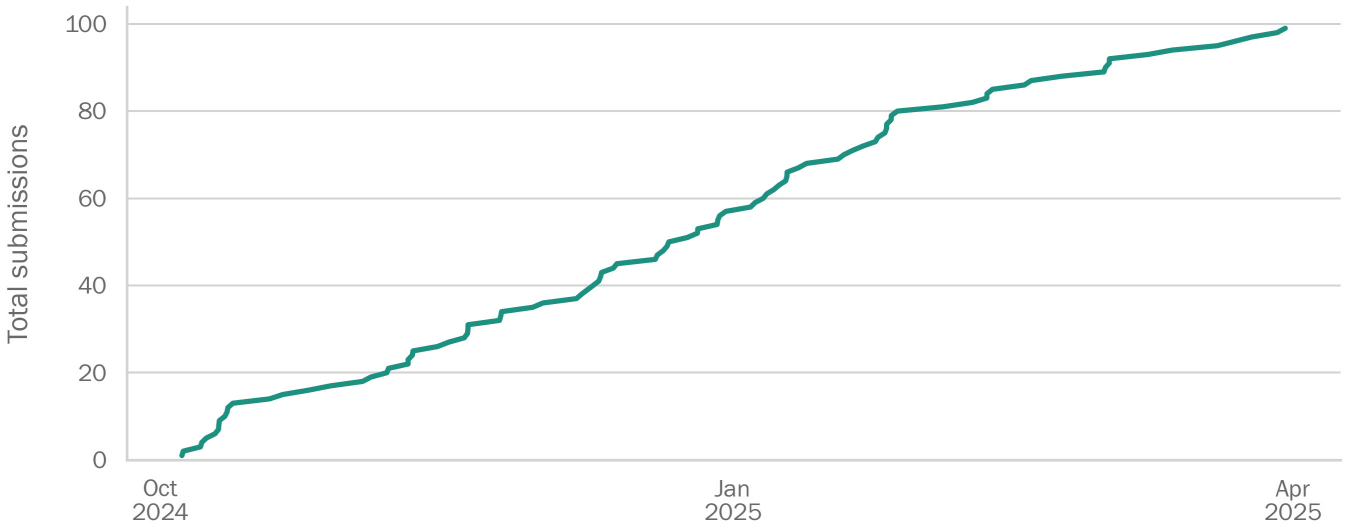
CoastSnap | coastsnap.aus.nz@unsw.edu.au
Water Research Laboratory, UNSW Sydney
School of Civil and Environmental Engineering | wrl.unsw.edu.au

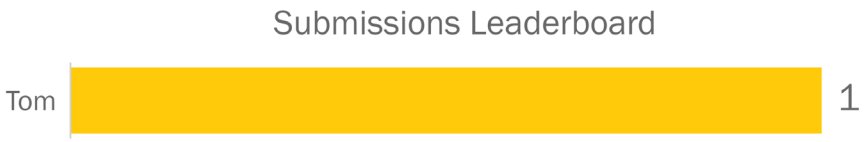
Participation Summary
Since Installation



99
Total images submitted

1.5
Submission rate (per week)





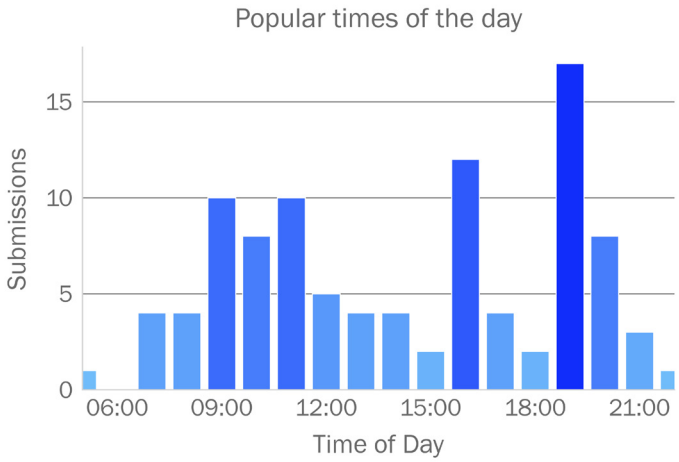
1

Tom
Local champion

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Participation Summary
Since Installation

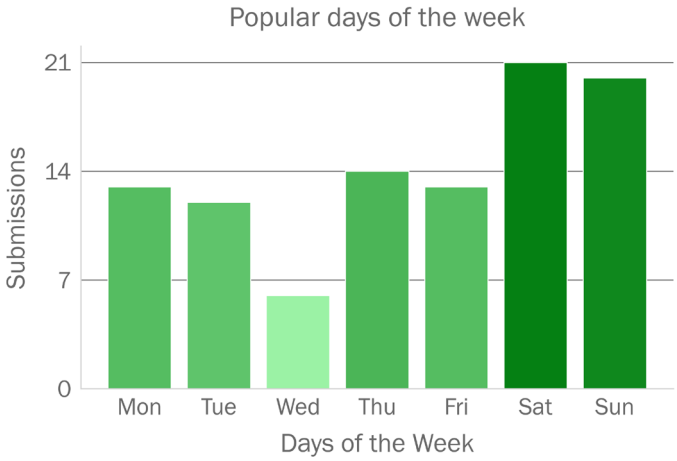


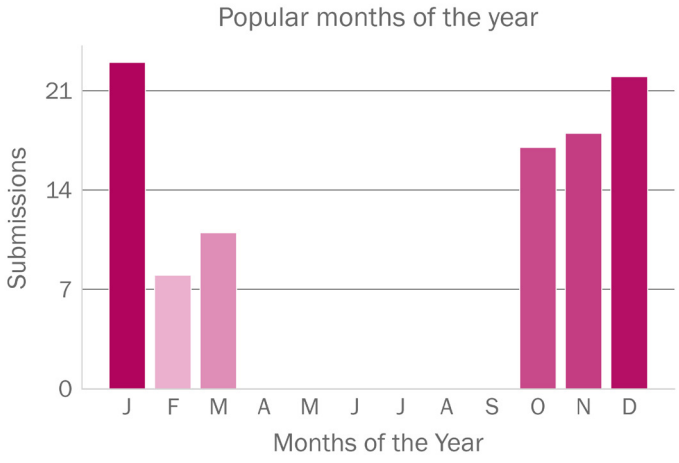
19:00

Most popular time of the day

Saturday

Most popular day of the week





January

Most popular month of the year

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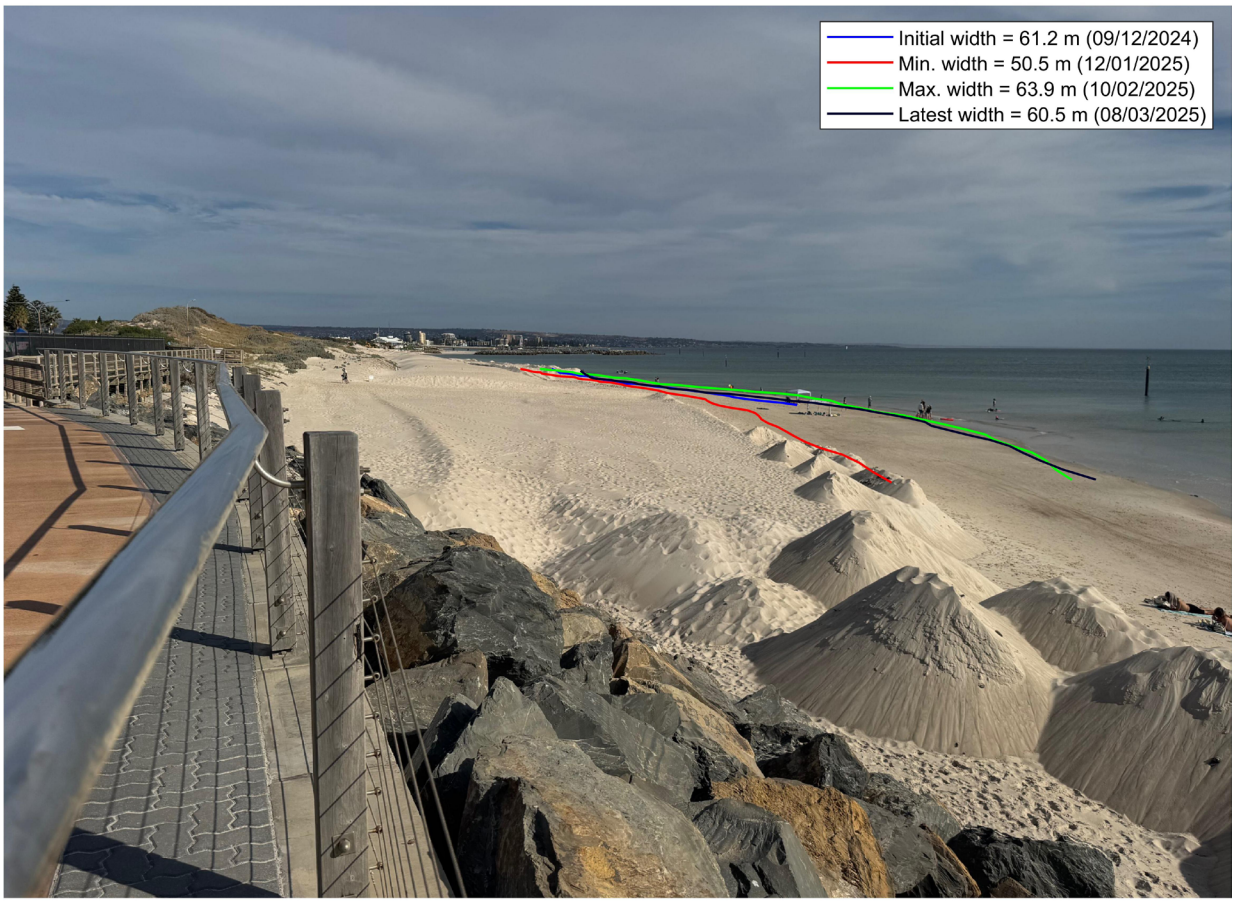
Shoreline Mapping
Last Quarter

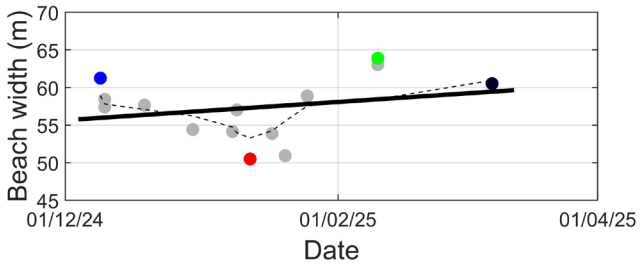
The figure below shows the shoreline and beach width changes at West Beach South from January 2025 to March 2025

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:2025/03/08 Time:17:02 Tide:-0.24m AHD Contributor:CoastSnap_Anonymous





Beach width trend
+14.28 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 Quarter

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

Date:2025/02/10 Time:19:23 Tide:+0.25m AHD Contributor:CoastSnap_Anonymous



Date:2025/01/12 Time:19:20 Tide:+0.08m AHD Contributor:CoastSnap_Anonymous

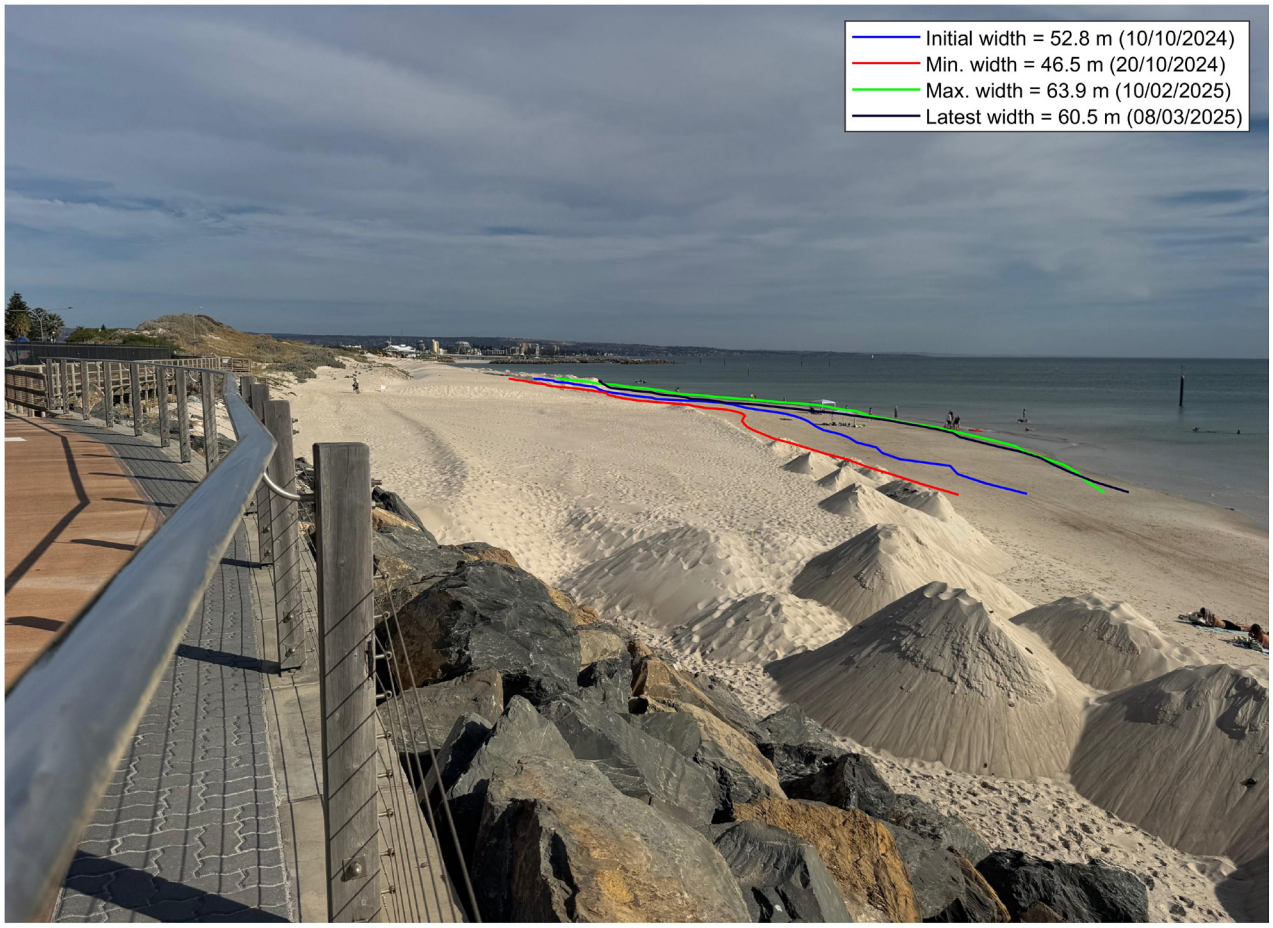


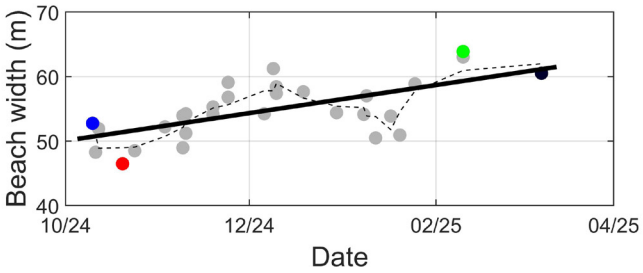
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Shoreline Mapping
Since Installation

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

Date:2025/03/08 Time:17:02 Tide:-0.24m AHD Contributor:CoastSnap_Anonymous

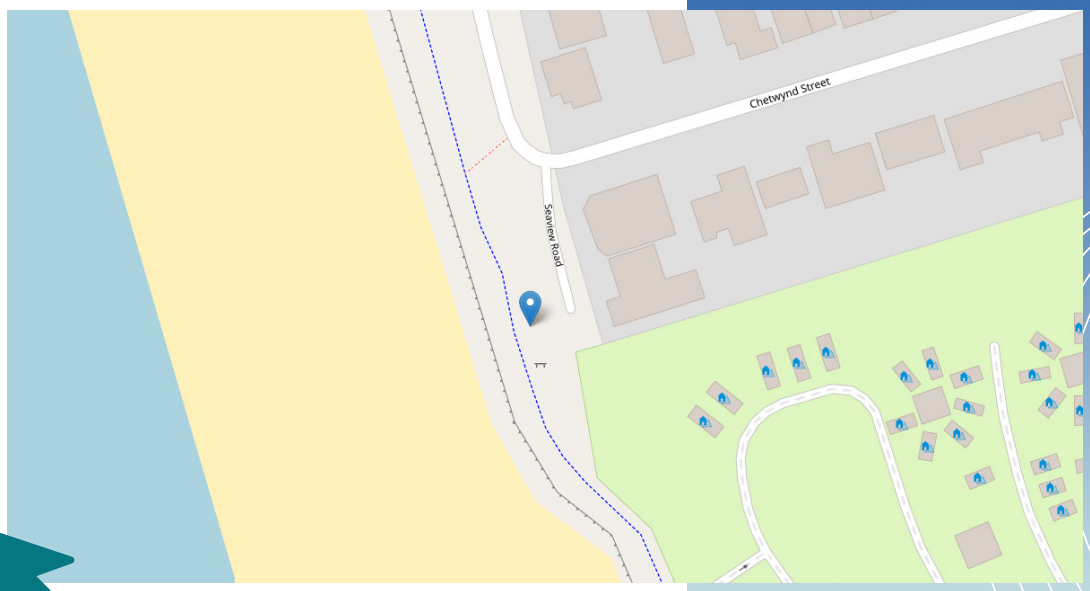




Beach width trend
+25.64 metres/year

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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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