# CoastSnap Grange Jetty

## Quarterly Update Report (September 2025)

UNSW
Water Research
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CoastSnap
community beach monitoring

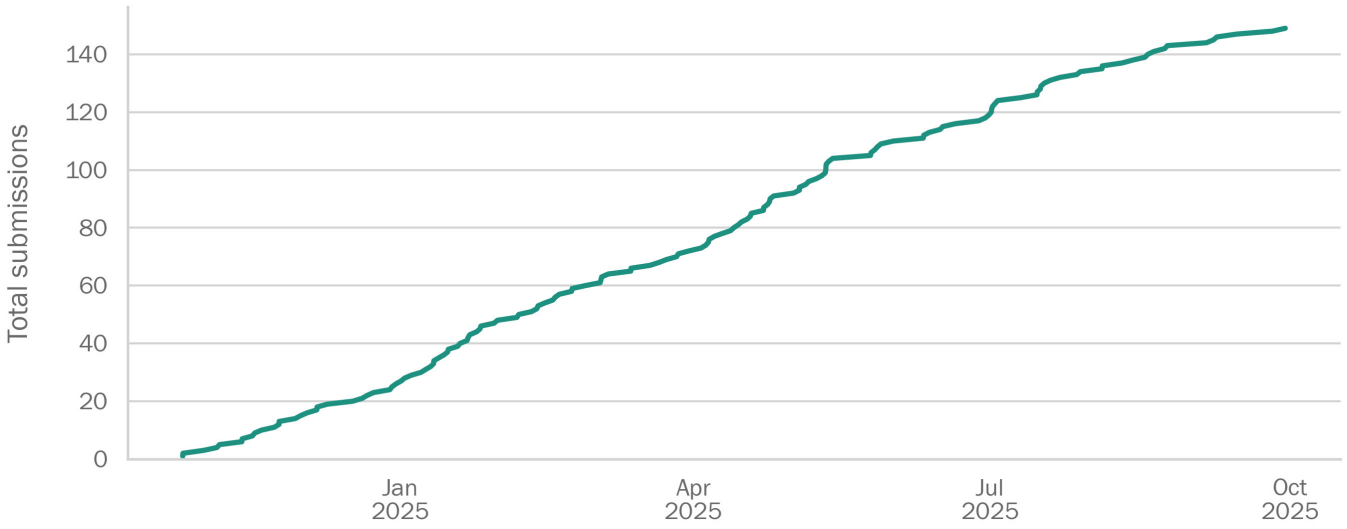
CoastSnap | coastsnap.aus.nz@unsw.edu.au
Water Research Laboratory, UNSW Sydney
School of Civil and Environmental Engineering | wrl.unsw.edu.au

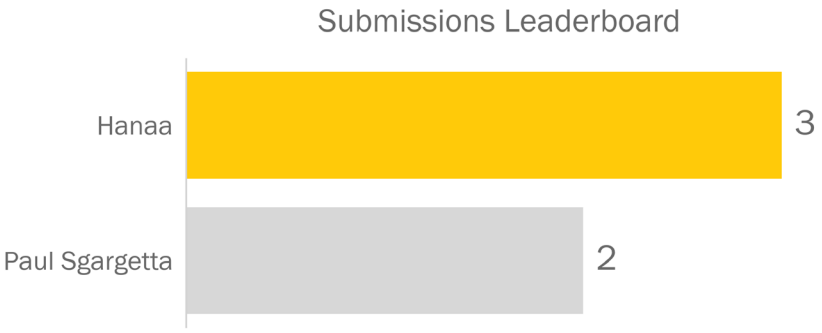
# Participation Summary
## Since Installation



**149**
Total images submitted

**2.4**
Submission rate (per week)



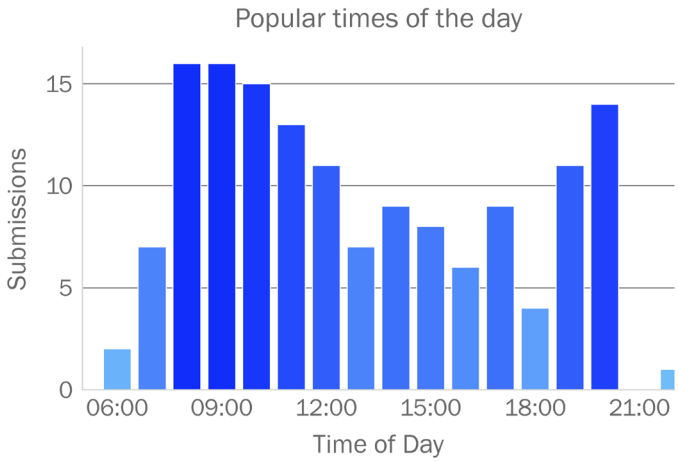

1

**Hanaa**
Local champion

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# Participation Summary
## Since Installation

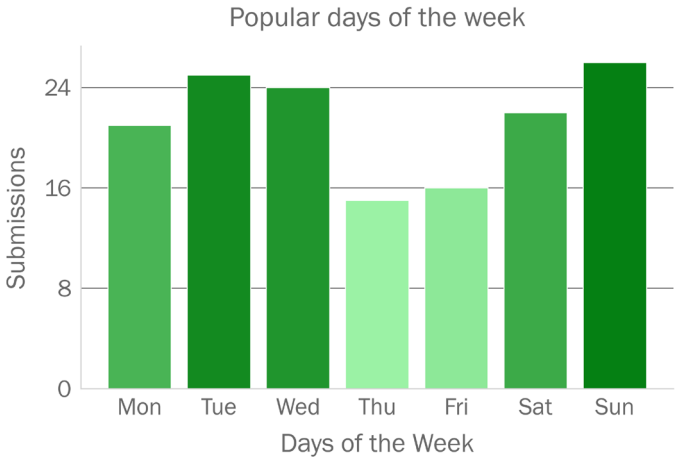


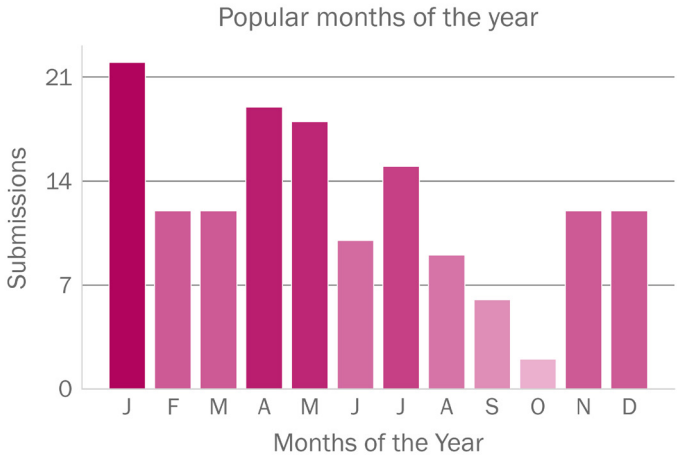

**8:00**

Most popular time of the day

**Sunday**

Most popular day of the week




**January**

Most popular month of the year

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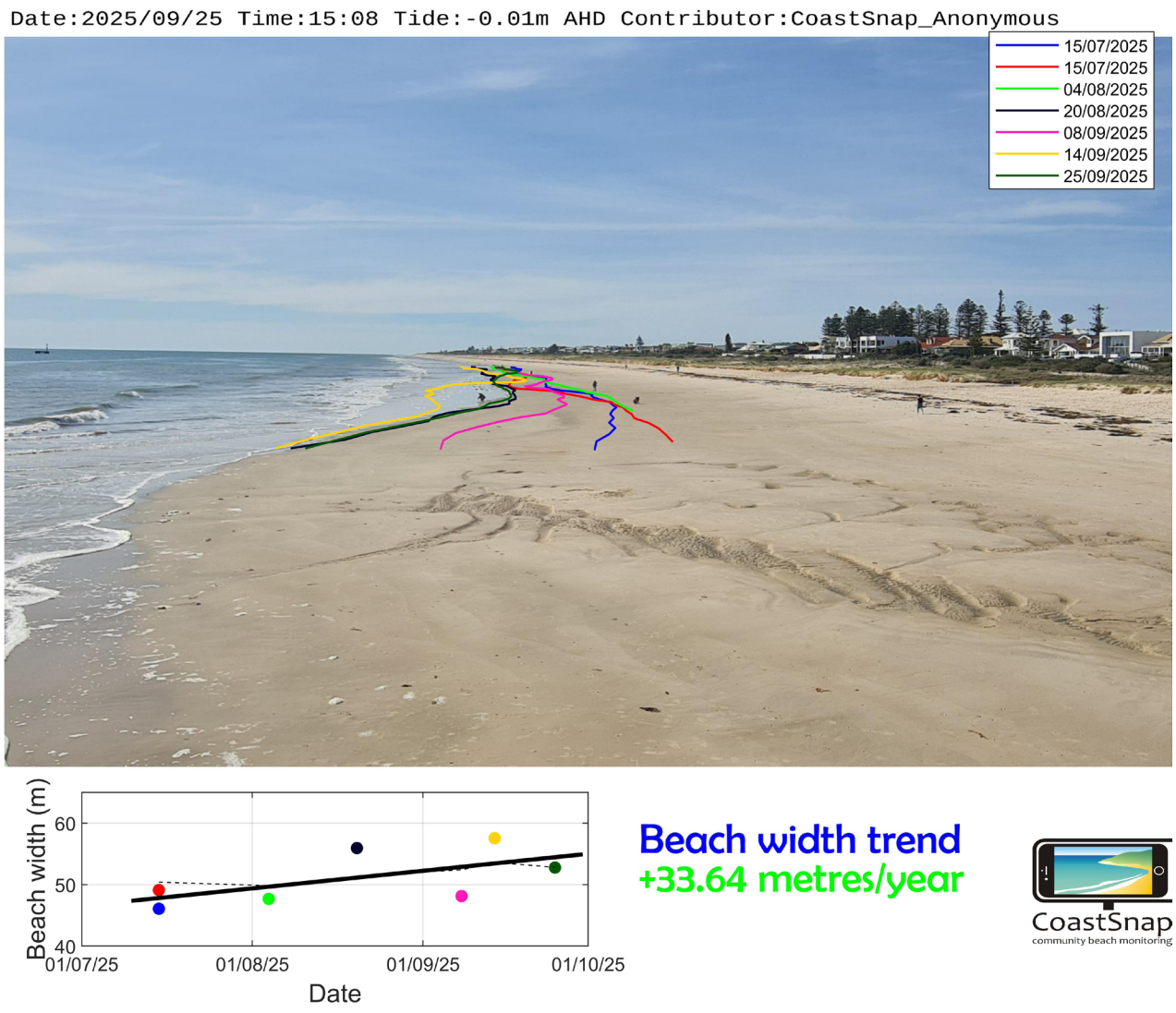
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# Shoreline Mapping
## Last Quarter

The figure below shows the shoreline and beach width changes at Grange Jetty from July 2025 to September 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.




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:2025/09/14 Time:16:49 Tide:+0.08m AHD Contributor:CoastSnap_Anonymous




Date:2025/07/15 Time:09:01 Tide:+0.35m AHD Contributor:CoastSnap_Anonymous





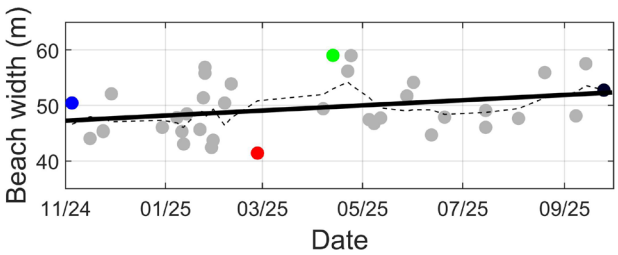

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# Shoreline Mapping
## Last 12 Months

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

Date:2025/09/25 Time:15:08 Tide:-0.01m AHD Contributor:CoastSnap_Anonymous




**Beach width trend**
**+5.57 metres/year**

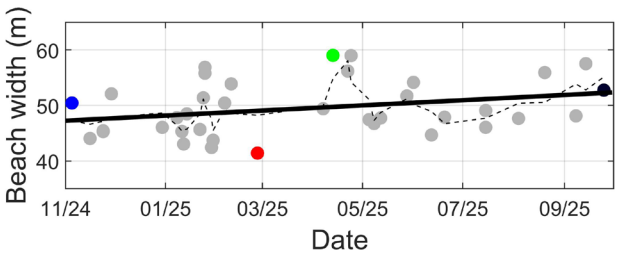
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# Shoreline Mapping
## Since Installation

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

Date:2025/09/25 Time:15:08 Tide:-0.01m AHD Contributor:CoastSnap_Anonymous



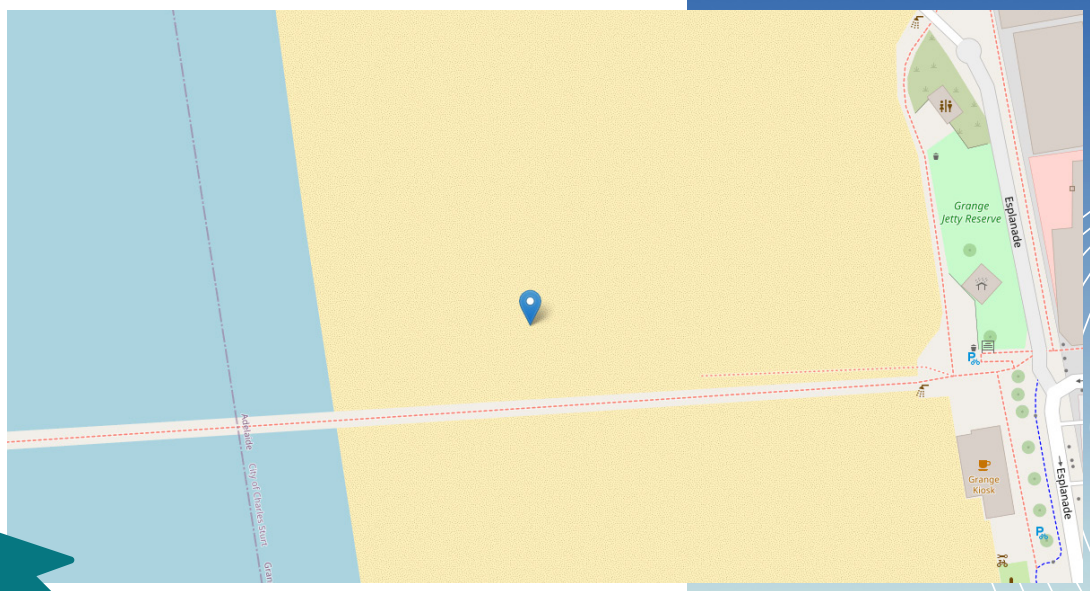

**Beach width trend**
**+5.57 metres/year**

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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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