A photograph of a coastal erosion site. On the left, a steep, exposed sand and soil cliff has eroded away from a blue house with white window frames. The beach is sandy and littered with driftwood and seaweed. In the middle ground, two people stand near a large pile of sandbags. To the right, a wooden pier structure extends into the ocean under a cloudy sky.

HOW CLIMATE CHANGE IS DRIVING COASTAL EROSION INVERLOCH CASE STUDY



2010 aerial photograph of Wreck Creek, Surf Parade and adjoining housing



Figure 6 Annotated Google Earth image of the Wreck Creek coastline (SLC to Eastern end of Rock Wall) showing Dune Loss from 14/3/2010 to 19/9/2020





Inverloch Surf Beach Lifesaving Tower



2004 (?) – photo Steve Dunn



28 Oct 2013
Photo: The Star

12 October 2013

5 December 2014





October 2016



2017



8 July 2018



20 July 2018



December 2018





25 March 2019

WET SAND FENCING



25 March 2019

25 March 2019







10 Sept 2019



Sept 13
Photo Geoff Ellis



28 September 2019

The Victorian Government has provided \$1.15 million in further funding towards addressing coastal erosion issues along the Inverloch foreshore



+

\$700,000 has been provided to form a pilot Regional and Strategic Partnership (RaSP) under the new *Marine and Coast Act* 2018, over the wider Inverloch marine and coastal area.

\$450,000 to install a 70-metre sand-filled geotextile container wall at the lifesaving clubhouse



Excavating to
install sand bags

Filling sand bags

21 February 2020

5 May 2020



December 2020



18 August 2021



Bunurong Road Corner



26 April 2019
Bunurong Rd/Surf Pde
wet sand fence

14 April 2020







October 2021 looking east towards SLSC from Bunurong Rd corner. The next 5 photos taken from here



September 2022



February 2023

June 2024

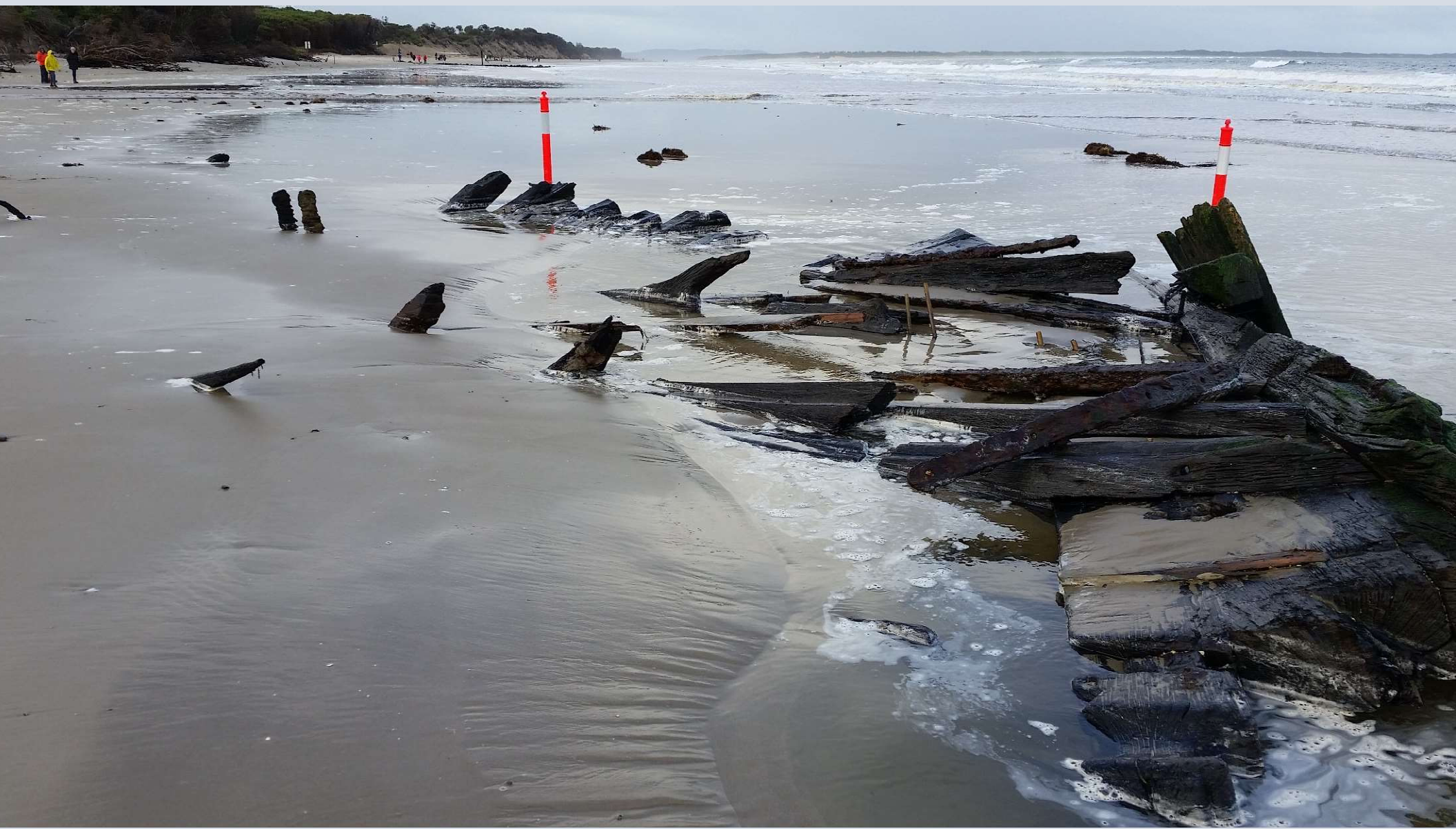


3 September 2024



Where's the creek?
January 28 2025





Amazon shipwreck July 2020

Amazon floated to
a new site
September 2024





2010 aerial photograph of Wreck Creek, Surf Parade and adjoining housing

Inverloch beach erosion worsens after 'huge' storms and high tides

William Howard ABC Gippsland 4 September 2024



3 September 2024



Note: excavator at work.
Image supplied ISLSC

The state government is planning to use a dredge & pump 150,000cum sand back to the surf beach later 2025. **(soft engineering)**

One solution to erosion at Inverloch – an offshore artificial reef to break up wave energy

PALM BEACH, GOLD COAST artificial reef

COST: \$18.2 million

270 metres offshore, 160 metres long and 80 metres wide. Constructed using 60,000 tonnes of boulders



GROYNES? Would disrupt eastward movement of sand at Inverloch



This Apollo Bay restoration suggested as a solution at Inverloch. See details next slide



Successful foreshore protection at Apollo Bay April 26, 2022

The Victorian Department of Environment, Land, Water and Planning (DELWP) recently announced the successful completion of the \$7.4 million Apollo Bay Foreshore Protection project.

Works included:

- three groynes comprising around 63,833 tonnes of rock;
- 675 metres of rock seawall;
- two heavy vehicle access ramps;
- one light vehicle access ramp;
- four wooden beach access stairs;
- 475 metres of reinstated foreshore path.

The construction of new groynes was followed by **sand renourishment** to fill the space next to the structures and prevent scouring of the beach to the north, and **revegetation works** will also take place.

SAVE INVERLOCH FORESHORE

MAJOR PUBLIC RALLY, SUNDAY, JANUARY 5, 2025.

ON THE BEACH, IN FRONT OF
INVERLOCH SURF LIFESAVING CLUBHOUSE.

In the past eight years, 70 metres of foreshore in the locality near the Inverloch Surf Lifesaving Clubhouse has been lost due to erosion. After 4 years of operation, a Victorian Government Committee has not made one recommendation to address what is now a Crisis situation. The Inverloch Surf Lifesaving Clubhouse and a section of the coast road between Inverloch and Cape Paterson are both in imminent danger of being lost as well as what is left of the sand dunes. If the road is lost, hundreds of homes are also at risk in the long term.

A PUBLIC RALLY ON JANUARY 5, 2025 AT 2.00PM

has been called to demand the State Government acts as a matter of urgency and put in place permanent protective measures to save these vital assets as they have recently done at Apollo Bay and in other coastal locations.

We need your help by attending the Public Rally so that the Government gets a clear message that we require action now to save and protect the Inverloch Foreshore. People power is needed as the Government is considering an adapt and retreat policy which would decimate Inverloch and must opposed.

Come and hear prominent guest speakers including triple Olympic Gold Medalist, Drew Ginn address the Crisis which now exists in Inverloch and why it is critical the Victorian State Government acts immediately.

WE NEED YOUR HELP BY ATTENDING THE RALLY.

For more information and updates, Facebook-Inverloch Foreshore Action Group.

Sentinel-Times

TUESDAY, JANUARY 7, 2025

COVERING SOUTH GIPPSLAND AND BASS COAST

PRICE \$2.00



Some of Sunday's attendees and speakers unite in a powerful statement at the rally's conclusion, as they demand decisive action. A15_0125

ACTION NOW

Inverloch community demands coastal action

Rock walls are 'hard engineering'. At Inverloch if they can be afforded they can save the SLSC but beach will be lost. Waves crash against rocks & drag sand away.

"We will lose the beach because sand in front of rock walls always, everywhere around the world, there are examples of it having disappeared." Byron Bay Residents' Group





← BEFORE

Cowes East beach restoration

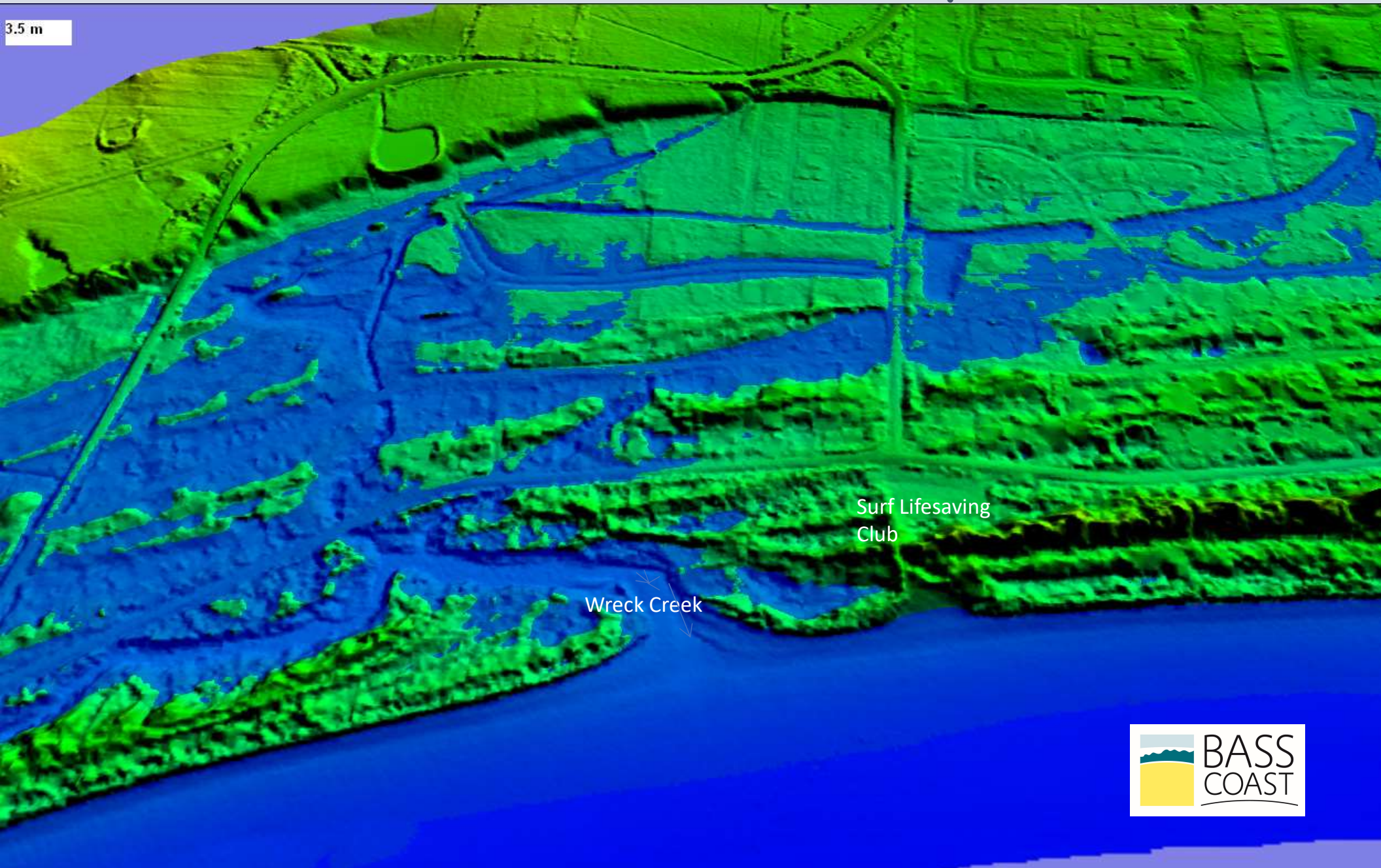
AFTER →



Surf beach sand transported east
to Anderson Inlet
New lagoon at Ayr Creek
Photo: Alison & Leo Brewster Jan 2016



Wreck Creek catchment with .8 metre sea level rise by 2100





Mid 2020



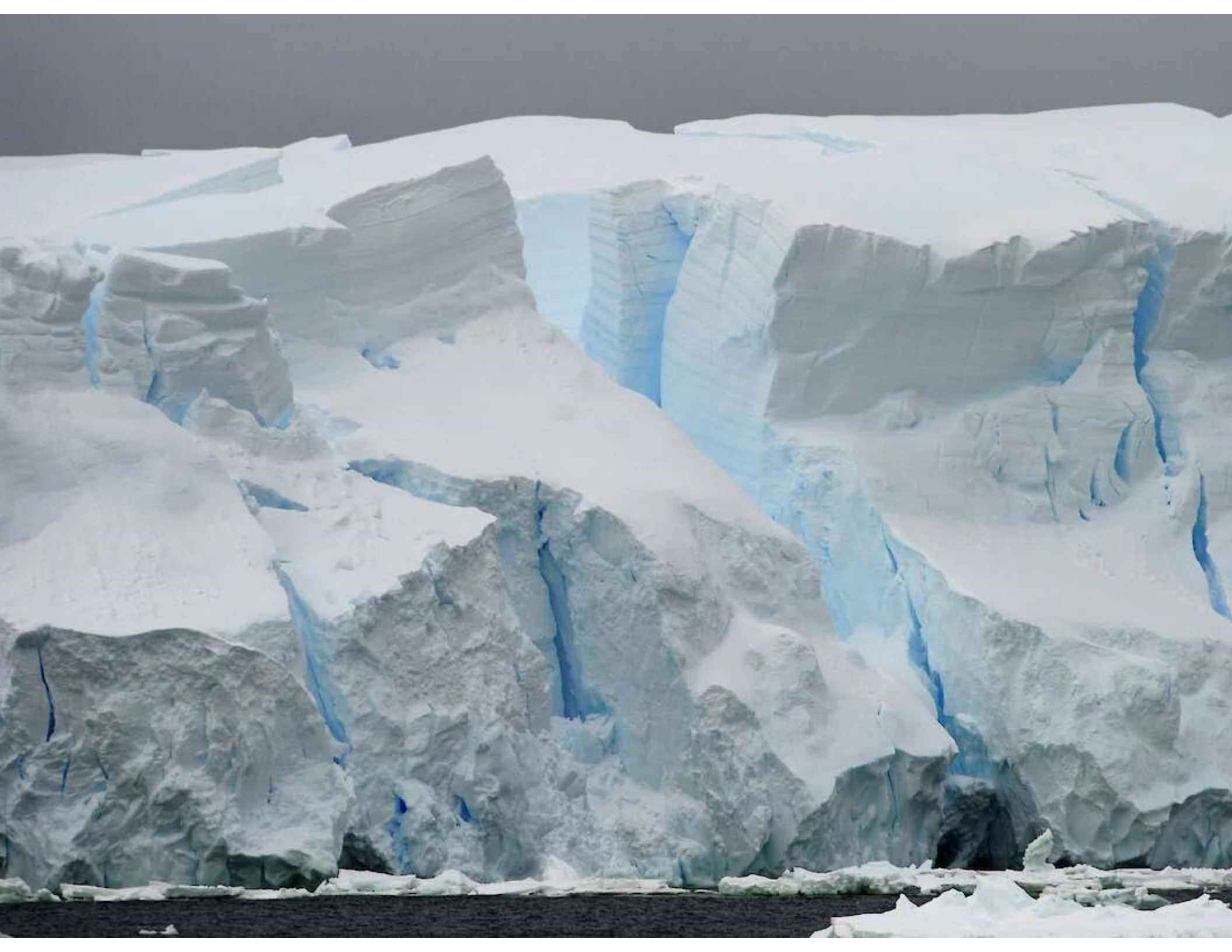
Inverloch

BIG4 Inverloch
Holiday Park

Inverloch
Coastal
Reserve

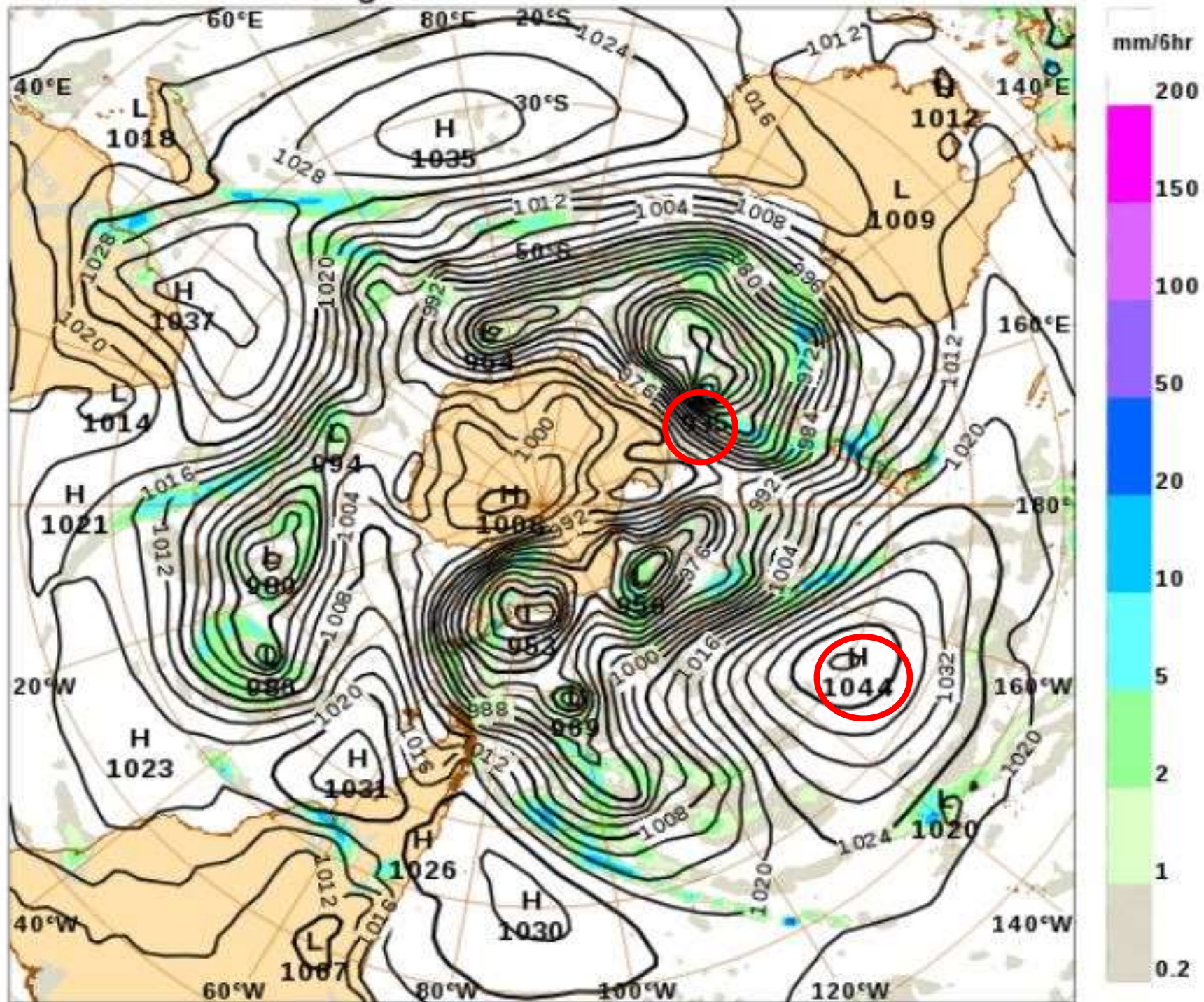
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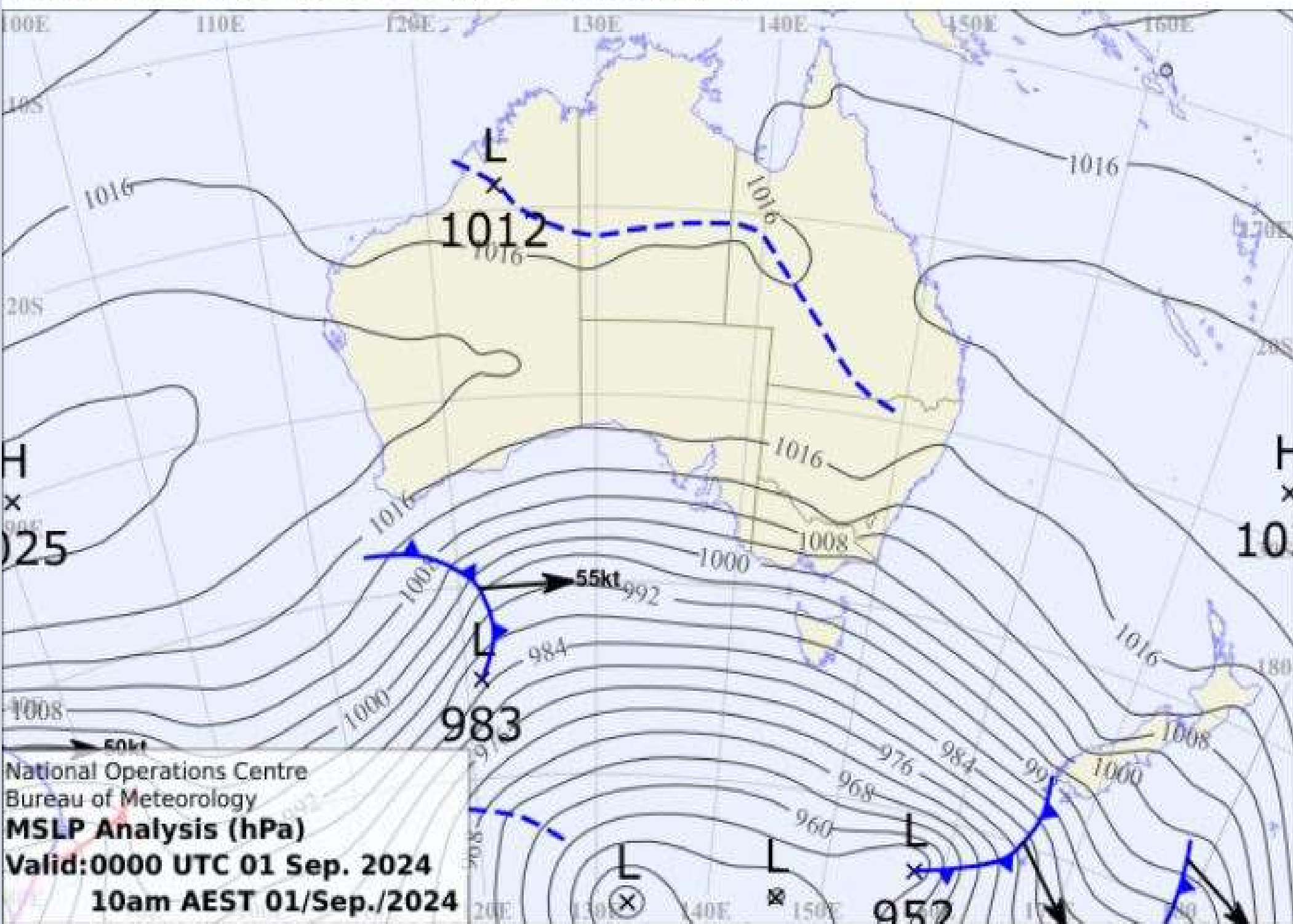


MSLP / Precip (06 hourly)
Valid 18UTC Fri 30 Aug 2024

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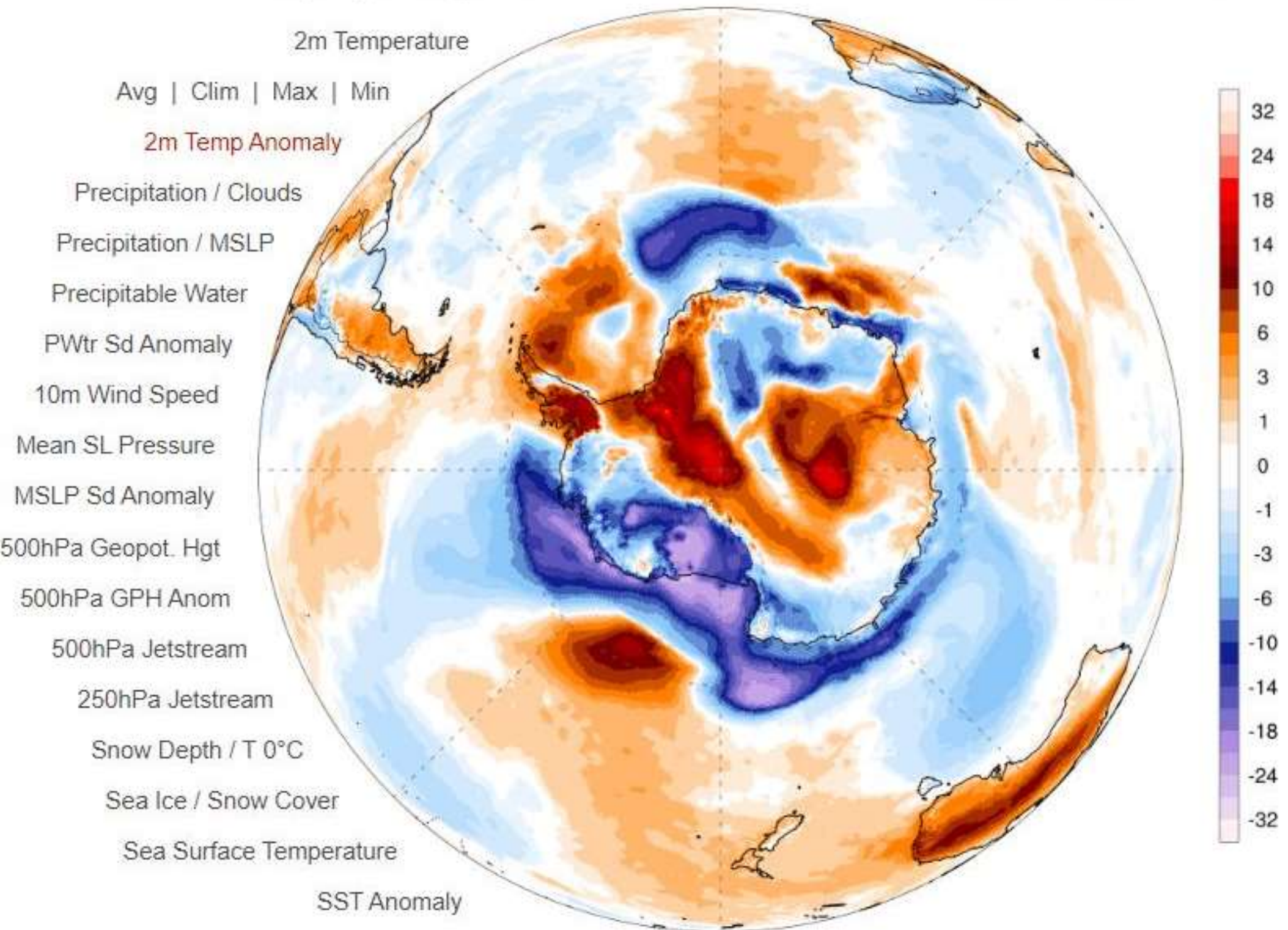


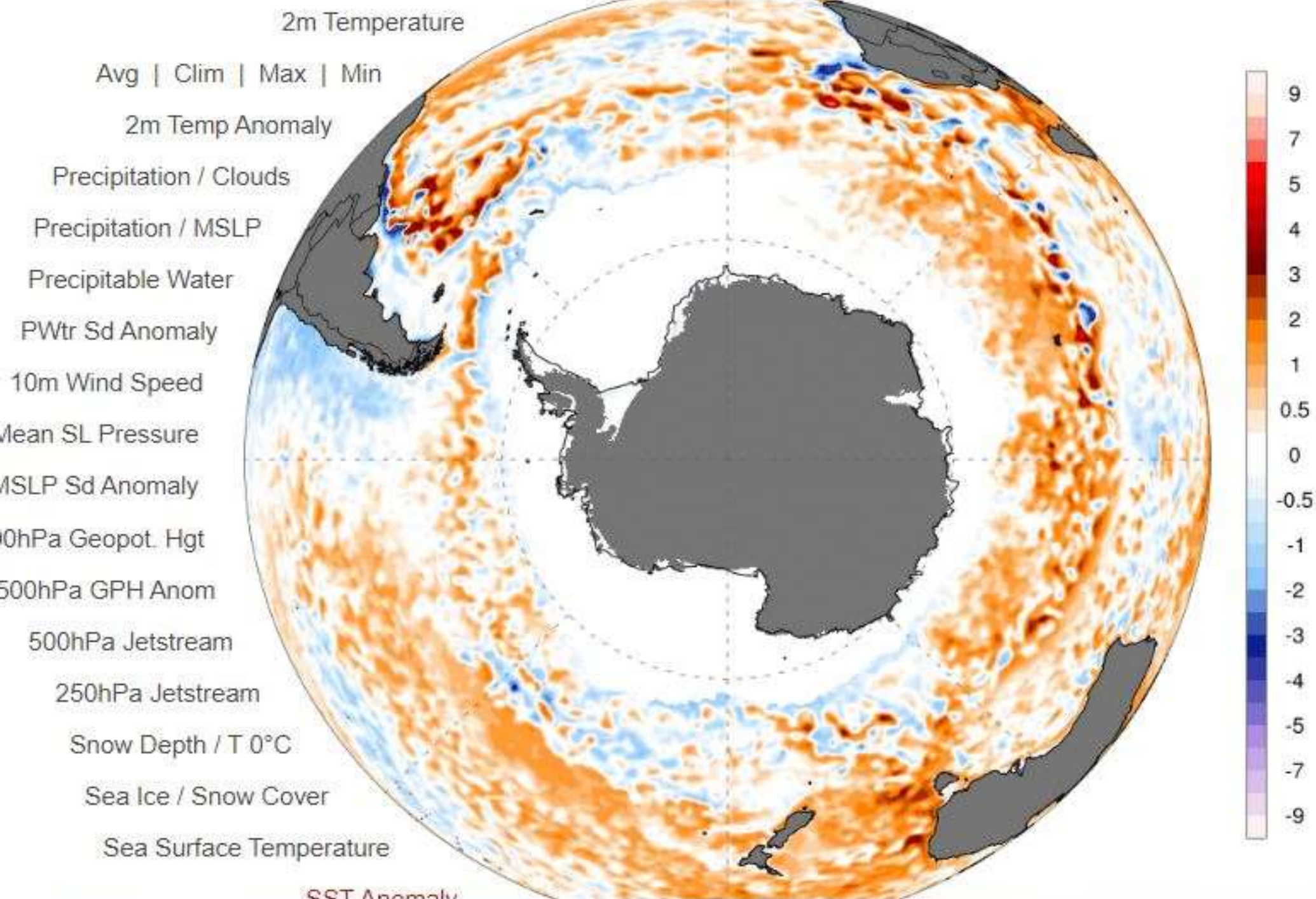
Analysis for 00:00 UTC on Sunday 1 September 2024



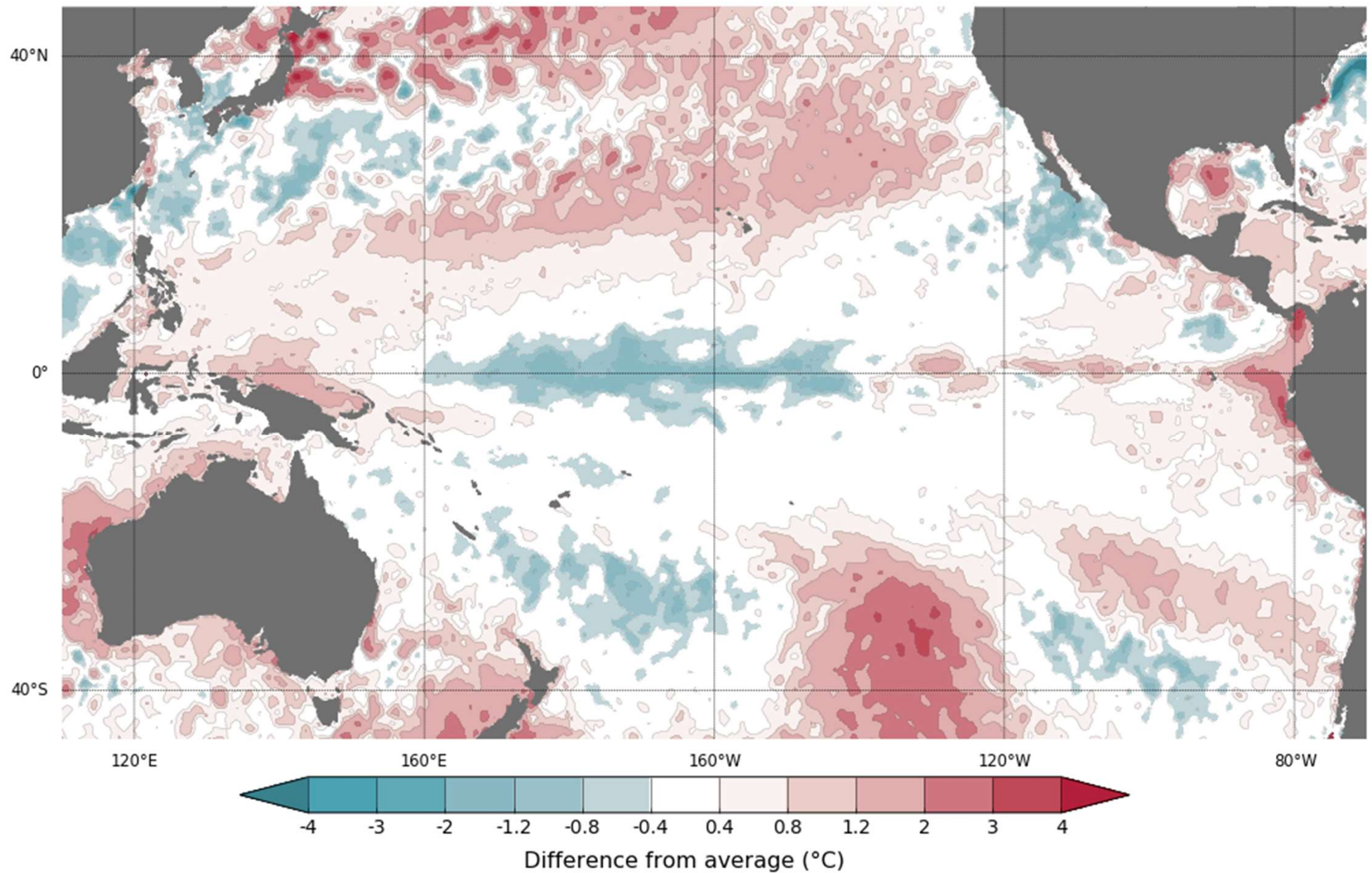
1-day Avg | Fri, Aug 30, 2024

Climate Change Institute | University of Maine





Difference from average sea surface temperature observations
24 February to 2 March 2025

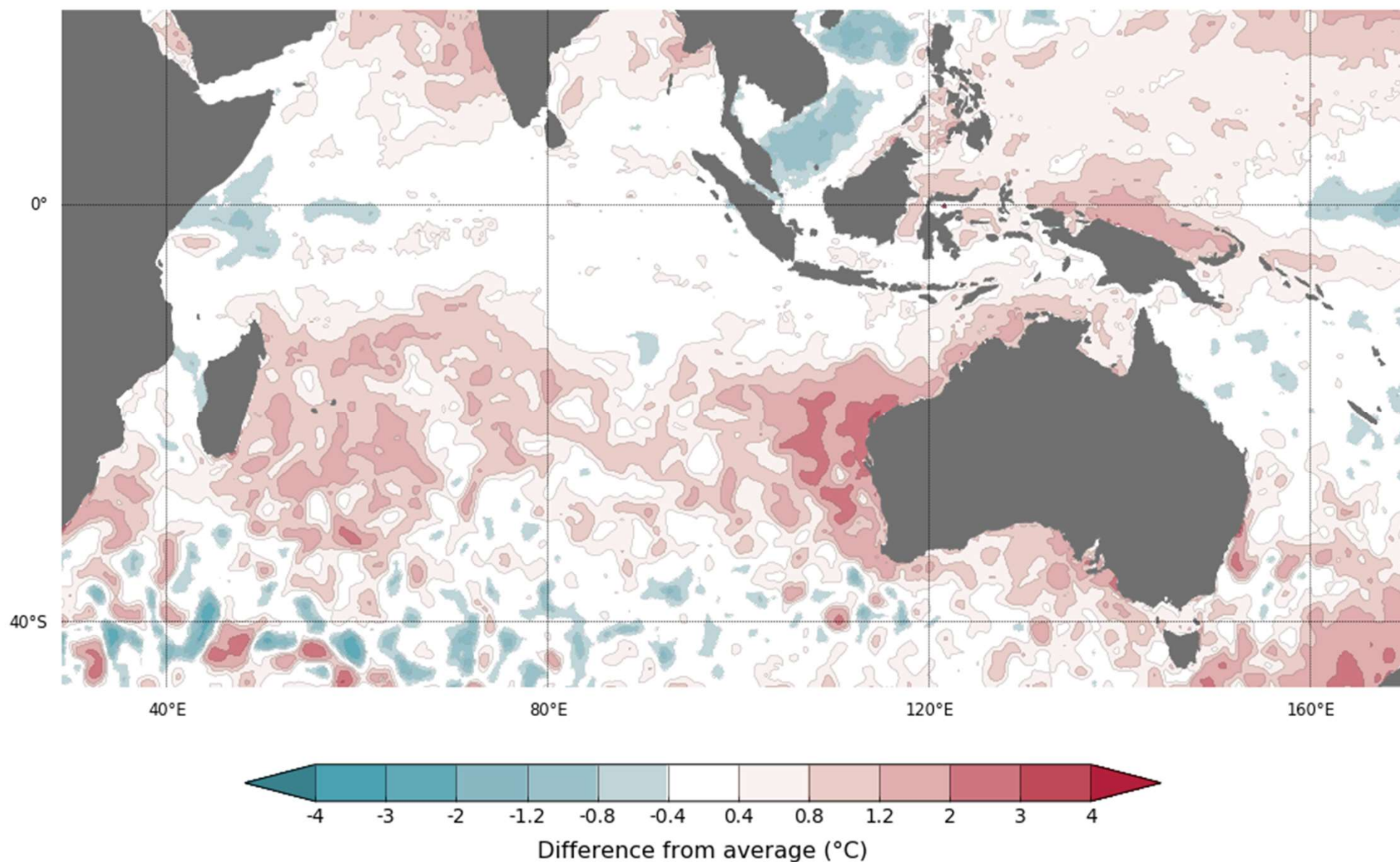


Data: GAMSSA SST
Climatology baseline: 1991 to 2020
© Commonwealth of Australia 2025, Australian Bureau of Meteorology

<http://www.bom.gov.au/climate>

Weekly average: 2 March 2025
Created: 03/03/2025

Difference from average sea surface temperature observations
24 February to 2 March 2025



Data: GAMSSA SST
Climatology baseline: 1991 to 2020
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<http://www.bom.gov.au/climate>

Weekly average: 2 March 2025
Created: 03/03/2025



Inverloch

Inverloch Surf Beach



3D

1,000 m

Camera: 6,018 m

38°3