

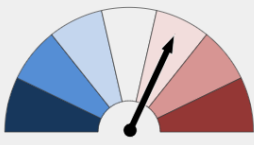


# Climate & Ecosystem Status Report

## Northern Prawn Fishery – Joseph Bonaparte Gulf May 2023

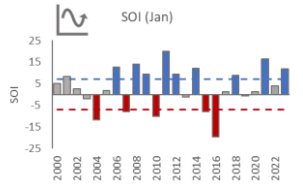


<http://www.bom.gov.au> 02/05/23



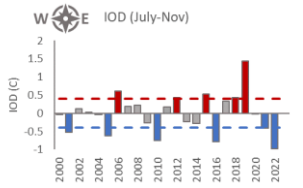
**El Niño WATCH**

- *La Niña (or IOD negative phase)*
- *El Niño (or IOD positive phase)*



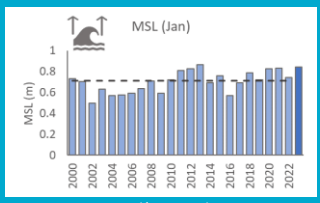
SOI (Jan)

Southern Oscillation Index<sup>1</sup> was 11.8 in January indicating a La Niña year



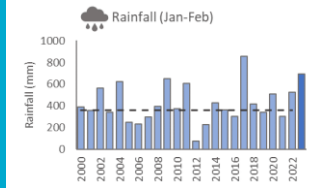
IOD (July-Nov)

Indian Ocean Dipole<sup>2</sup> index was negative indicating a wet summer



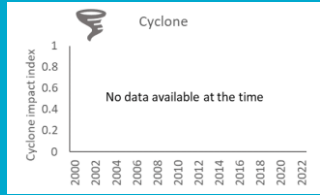
MSL (Jan)

Mean Sea Level<sup>1</sup> was above average



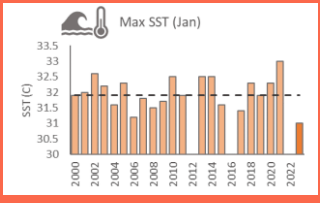
Rainfall (Jan-Feb)

Rainfall<sup>1</sup> was above average for a second year



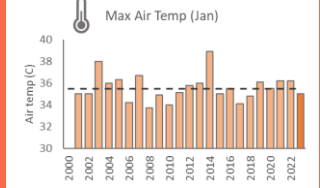
Cyclone

Cyclone data not yet collated



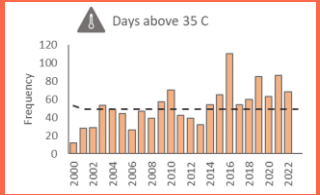
Max SST (Jan)

Max sea surface temperature<sup>1</sup> was below average



Max Air Temp (Jan)

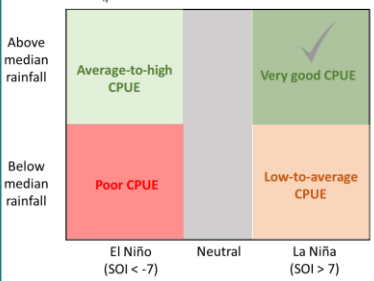
Max air temperature<sup>1</sup> was below average



Days above 35 C

Number of hot days<sup>1</sup> has increased in recent years. 2023 data not available

Redleg banana prawn



### Redleg banana prawn CPUE prediction

The 2023 January-February combined rainfall was 694 mm which is above the long-term median and the January SOI index was 11.8 indicating a La Niña year in early 2023 before moving to an El Niño watch by mid-year. We can thus expect a very good CPUE this year.

See Plagányi et al. 2020 ICES J Mar Sci

Sources: BOM<sup>1</sup> NOAA<sup>2</sup>