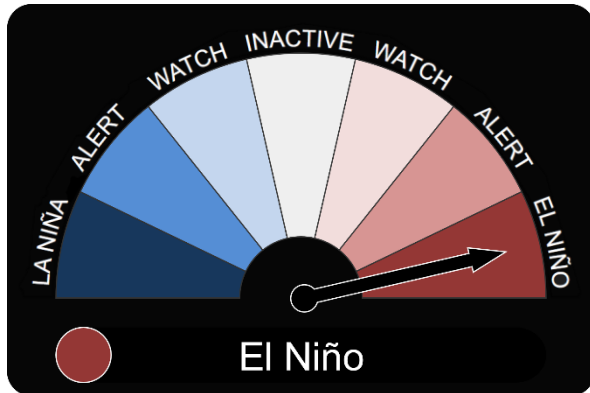


October Climate Bulletin for Fisheries

A monthly bulletin issued by the Vanuatu Meteorology & Geo-hazards Department that provides concise one-month outlook on climatic conditions over Vanuatu that the fisheries sector can use for better decision-making.

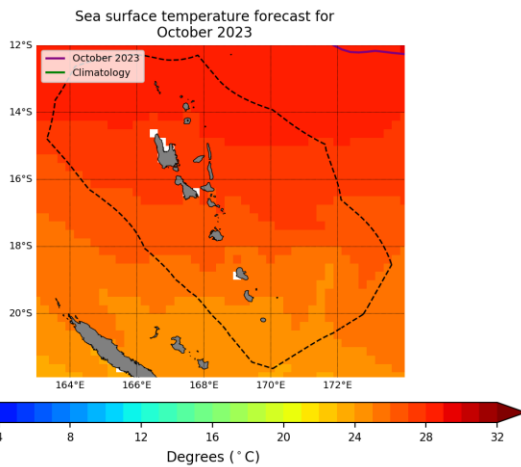
El Niño–Southern Oscillation (ENSO)



ENSO status has moved to El Niño this month. El Niño events typically increase the chance of below average rainfall in Vanuatu, resulting in drier conditions and warmer daytime temperatures.

El Niño Saoten Osileisen hemi muv igo long El Niño long manis ia. Long Vanuatu yumi stap fesem bilou nomol renfol long taem blong wan El Niño. Bilou nomol renfol hemi save mekem ples l drae mo ples l hot long day.

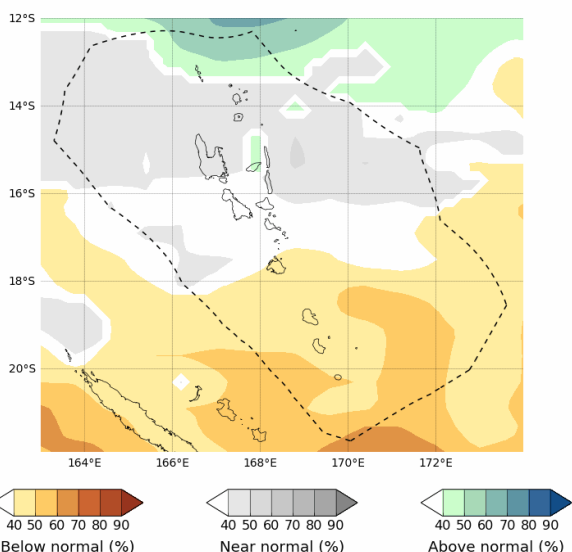
Sea Surface Temperature Forecast



Highest sea surface temperature is forecasted above 28°C in Torba province, and above 27°C in Malampa, Penama and Sanma. Central and southern islands expect temperatures of 24-27°C.

Haest tempreja blong solwota hemi save hae bitim 28°C long Torba province, mo hae bitim 27°C long Malampa, Penama mo Sanma. Sentrol mo saoten aelans oli expectem wan tempreja blong 24-27°C.

Tercile rainfall probabilities for October 2023



Rainfall Outlook

Rainfall is likely to be above normal for Penama and parts of Torba Province. Tafea and parts of Shefa province is expected to experience below normal rainfall.

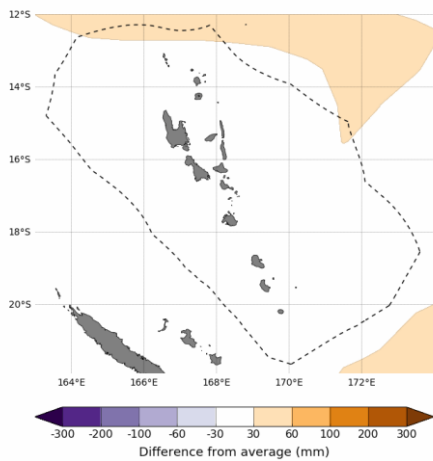
Renfol bae hemi save abav nomol long Penama mo samfala pat blong Torba. Renfol bae hemi save bilou nomol long Tafea mo samfala pat blong Shefa.

Base period: 1981-2018
 Model: ACCESS-S2
 Model run: 25/09/2023
 Issued: 27/09/2023

SUPPORTED BY:



Difference from average sea surface height forecast for October 2023



Base period: 1981-2018
 Model: ACCESS-S2
 © Commonwealth of Australia 2023, Australian Bureau of Meteorology
 (Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2019NM), version 11. Available online at <http://www.marineinsight.com>)
 Model run: 25/09/2023
 Issued: 27/09/2023

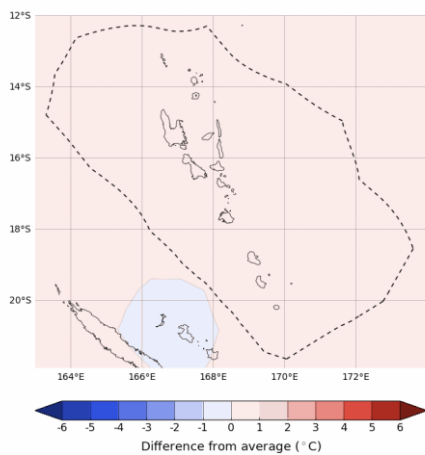
Sea Level Forecast

Sea level is forecasted to be within 3cm of its normal height in October.

Level blong solwota bae stap within 3cm long nomol level blong hem long Oktoba.

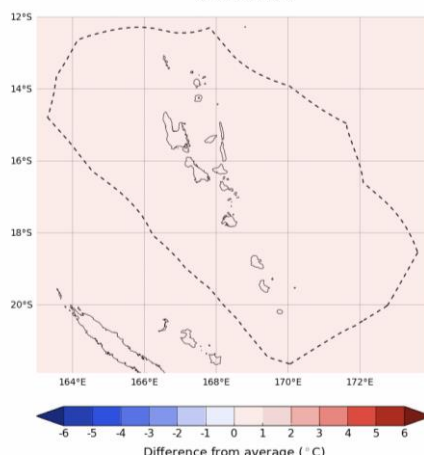
Maximum and Minimum Temperature Outlook

Difference from average mean maximum temperature forecast for October 2023



Base period: 1981-2018
 Model: ACCESS-S2
 © Commonwealth of Australia 2023, Australian Bureau of Meteorology
 (Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2019NM), version 11. Available online at <http://www.marineinsight.com>)
 Model run: 25/09/2023
 Issued: 27/09/2023

Difference from average mean minimum temperature forecast for October 2023



Base period: 1981-2018
 Model: ACCESS-S2
 © Commonwealth of Australia 2023, Australian Bureau of Meteorology
 (Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2019NM), version 11. Available online at <http://www.marineinsight.com>)
 Model run: 25/09/2023
 Issued: 27/09/2023

Slightly above average (0-1°C) day-time temperatures are expected over the country.
 Slightly above average (0-1°C) night-time temperatures are expected over the country.

Tempreja blong dei bae save wom lelebet bitim nomol wetem wan difrens blong 0-1°C.
 Tempreja blong naet bae save wom lelebet bitim nomol wetem wan difrens blong 0-1°C.

Tide Outlook for October

Port Vila Harbour

Lowest Tide	Date	Time (VUT)	Highest Tide	Date	Time (VUT)
0.23m	31 Oct	1:00am	1.60m	28 Oct	5:02pm

Luganville Harbour

Lowest Tide	Date	Time (VUT)	Highest Tide	Date	Time (VUT)
0.27m	29 Oct	11:23pm	1.88m	28 Oct	4:10pm

Moon Phases for October

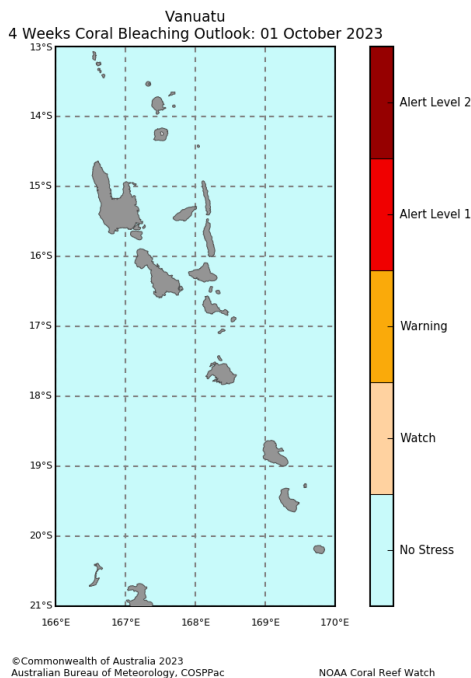
Fes Kwata	Ful Moon	Las Kwata	Niu Moon
22 October	29 October	7 October	15 October

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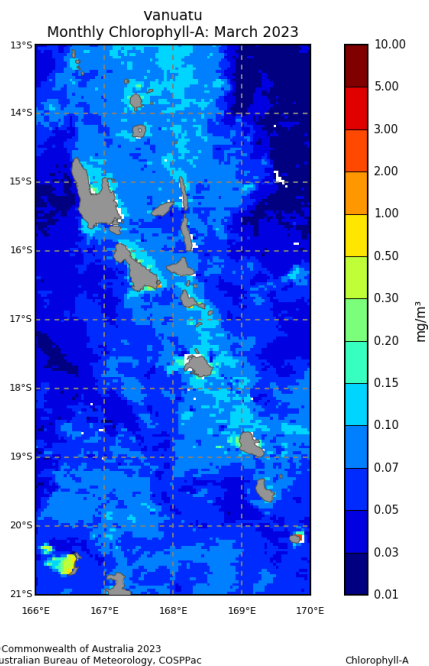




Coral Bleaching Outlook

A No Stress outlook is forecasted for all islands in October.

Aotluk I soem se bae inogat stress long ol korel long Oktoba.



Chlorophyll A status from March 2023

Chlorophyll concentrations from March ranged from 0.10 to 0.50mg/m³ off the coast of most islands. Highest chlorophyll level of over 2.0mg/m³ is found east of Aneityum.

Level blong klorofil hemi kasem 0.10 to 0.50mg/m³ long most aelan long Vanuatu. Haest chlorophyll level hemi 2.0mg/m³ mo istap long east blong Anaijom.

Bulletin Highlights for October 2023

ENSO:	El Niño	Max Temp:	↑
SST:	↑	Min Temp:	↑
Rainfall:	↑	Coral Bleaching:	↓
Sea Level:	–	Chlorophyll:	–

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SPREP
Secretariat of the Pacific Regional
Environment Programme



Climate Smart Recommendations for Fisheries Sector

		Offshore fisheries	Lagoon fisheries
EL Nino Southern Oscillation (ENSO)	El Nino La Nina		
Sea Surface Temperatures	Further South	- Higher likelihood of warmer water tuna species skipjack and yellow fin. - Fish on warm side of SST fronts for natural biological hotspots.	
Sea Level	> 200 mm < - 200 mm		
Rainfall	Above normal Below normal		
Maximum and Minimum Temperature	Above average Below average		
Coral Bleaching Level	Warning Alert 1 Alert 2		<ul style="list-style-type: none"> - Reduce storm water and fertilizer runoff - Avoid using herbicides and pesticides - When anchoring boats, avoid anchoring near places with coral reefs - Encourage offshore fishing to alleviate stressors in the lagoon.
Chlorophyll	Above normal	Likely higher stocks for smaller pelagic fish	<ul style="list-style-type: none"> - Higher risks of lagoon fish disease, encourage offshore fishing - Limit nutrient runoff & monitor for algal blooms - Target high chlorophyll regions for crown of thorns starfish management activities
High and Low Tides	High Tide Low Tide		
Moon Phases	First Quarter Full moon Last Quarter New Moon		

For more info, contact us:

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