

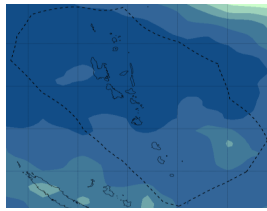
VANUATU CLIMATE OUTLOOK FOR TOURISM

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

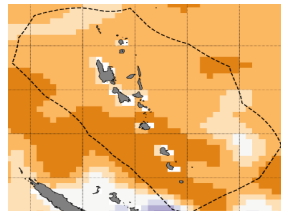
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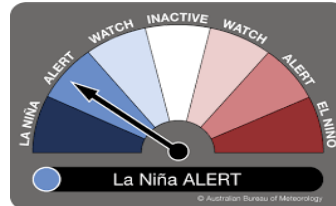
Highlights in this bulletin



Rainfall Outlook



Sea Level



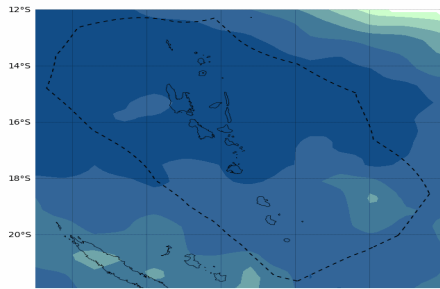
El Niño / La Niña



Volcano Alert Level

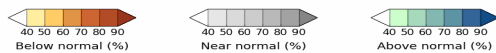
Rainfall Outlook for September 2022

Tercile rainfall probabilities for September 2022



Above normal rainfall is expected for all regions of Vanuatu extending from northern to southern provinces. There is a 80-90% chance for this forecast to happen.

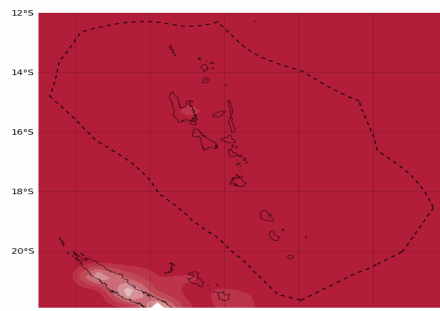
Yumi expektem abav nomol renfol ova lo evri aelans blo Vanuatu stat long ol aelans lo north igo daon long ol aelans lo south. Igat bigfala janis blong fokas ya I save hapen.



Base period: 1981-2018
Model: ACCESS-S2
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Geospatial data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <http://www.maritimeregions.org/>

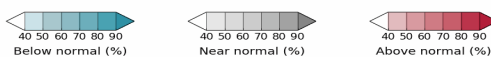
Day-time Temperature Outlook for September 2022

Tercile maximum temperature probabilities for September 2022



Warmer than average day-time temperatures are expected for the whole country. There is an 80—90% chance for this forecast to happen.

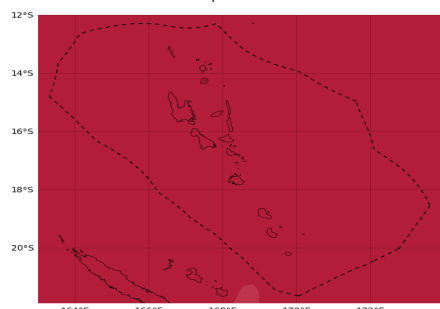
Yumi expektem tempreja blong day bae hemi wom lelebet bitim nomol ova long kaontri. Igat gudfala janis blong fokas ya I save hapen.



Base period: 1981-2018
Model: ACCESS-S2
© Commonwealth of Australia 2022, Australian Bureau of Meteorology
Geospatial data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <http://www.maritimeregions.org/>

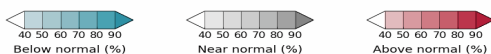
Night-time Temperature Outlook for September 2022

Tercile minimum temperature probabilities for September 2022



Warmer than average night-time temperatures are expected for the whole country. There is an 80—90% chance for this forecast to happen.

Yumi expektem tempreja blong day bae hemi wom lelebet bitim nomol ova long kaontri. Igat gudfala janis blong fokas ya I save hapen.



Base period: 1981-2018
Model: ACCESS-S2
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Geospatial data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at <http://www.maritimeregions.org/>

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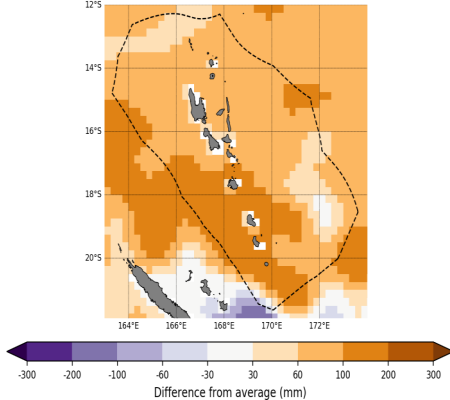
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Outlook for Sea Level for September 2022

Difference from average sea surface height forecast for September 2022



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Model: ACCESS-S2
Base Period: 1981-2018

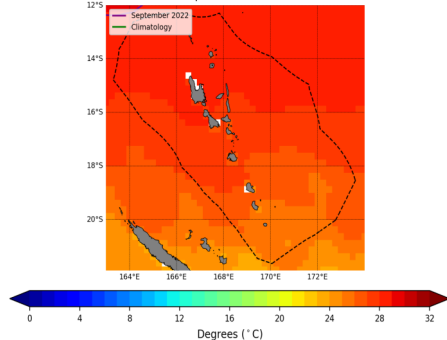
Model Run: 28/07/2022
Issued: 03/08/2022

Sea level across the country is very likely to be higher than normal. It is forecasted to reach up to 0.2m (20cm) above average for most of the southern region and 0.1m (10cm) above average for the whole Vanuatu group, which may cause high tides to be higher than usual. (**Note:** White locations on the map are indicative of no data for these areas).

Level blong solwora bae save hae kasem 0.2 m (20 cm) antap long nomol level blong hem long Saoten rijen mo 0.1m (10cm) hae antap long nomol level blong hem long hol kaontri. Hemia I save mekem ol hae taet long manis blong August blong oli hae bitim nomol. (Notis: Ol ples we I kala waet long map oli stap soem se inogat infomesen blong ol eria ya).

Outlook for Sea Surface Temperature for September 2022

Sea surface temperature forecast for September 2022



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Model: ACCESS-S2
Base Period: 1981-2018

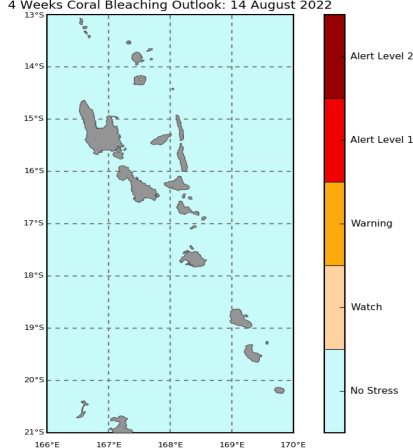
Model Run: 30/07/2022
Issued: 03/08/2022

Sea surface temperature is likely to range from 28-29°C over Torba, Sanma, Penama and Malampa, while Shefa may experience SSTs of 27-28°C, and Tafea may experience SSTs of 25-26°C.

Tempreja blong solwora long Torba, Sanma, Penama mo Malampa bae save kasem 28—29°C. Tempreja blong solwora long Shefa bae save kasem 27-28°C, mo tempreja long Tafea bae save kasem 25-26°C.

Alert for Coral Bleaching until 11 September 2022

Vanuatu
4 Weeks Coral Bleaching Outlook: 14 August 2022



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Australian Bureau of Meteorology, COSPPac COMP

NOAA Coral Reef Watch

Coral Bleaching Alert is at No Stress until 11 September for the whole Vanuatu group. This means there is currently no heat stress on corals that would cause potential bleaching in the coming weeks.

Korel Blijing Alet istap long No Stres kasem 11 Septemba long ful kantri. Hemia I minim se tempreja blong solwora ino hot tumas blong save kosem sam damej long ol korel rif.

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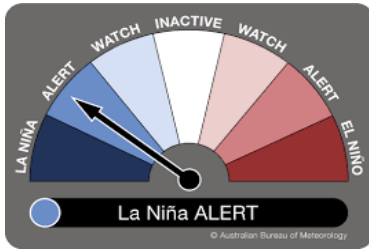
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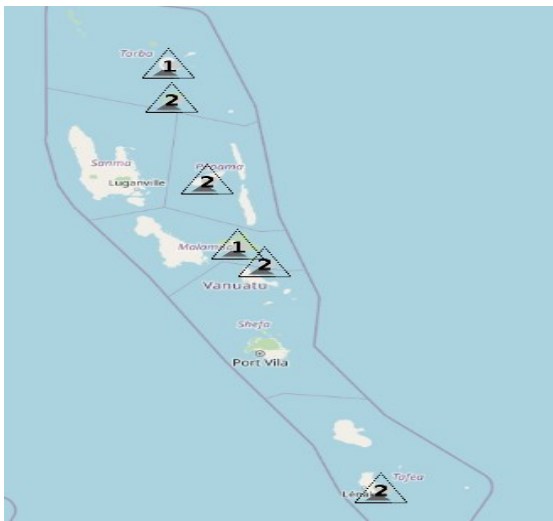
El Niño Southern Oscillation



The ENSO Outlook has been raised to La Niña ALERT, meaning there is a 70% of La Niña forming later in 2022. La Niña events increase the chances of above-average rainfall for Vanuatu.

ENSO aotluk l muv igo antap long La Niña ALERT, hemia l minim se janis blong wan La Niña hemi fom hemi kasem 70%. Long Vanuatu, La Niña hemi inkrisim janis blong ren l go antap bitim nomol amaan blong ren.

Volcanic Alert Level Summary as of 18 August 2022



| Vanuatu Volcanic Activity Summary | |
|-----------------------------------|---------------------|
| Volcanoes | Current Alert Level |
| Yasur (Tanna) | 2 |
| Lopevi (Lopevi) | 2 |
| Manaro Voui (Ambae) | 2 |
| Mount Garet (Gaua) | 2 |
| Benbow and Marum (Ambrym) | 1 |
| Suretamatai (Vanua Lava) | 1 |

For update information, see www.vmgd.gov.vu or email at geohazards@meteo.gov.vu or call at 24686

| Port Vila Harbour | | | | | | Luganville Harbour | | | | | |
|-------------------|--------|---------|-------------|-------|---------|--------------------|--------|---------|-------------|-------|---------|
| Highest Tide | Date | Time | Lowest Tide | Date | Time | Highest Tide | Date | Time | Lowest Tide | Date | Time |
| 1.51m | 10 Sep | 04:59am | 0.17m | 9 Sep | 10:52am | 1:84m | 10 Sep | 04:15am | 0.14m | 9 Sep | 10:09am |

Tide Outlook for September 2022

| New Moon | First Quarter | Full Moon | Last Quarter |
|--------------|---------------|--------------|--------------|
| 27 August | 4 September | 10 September | 18 September |
| 26 September | 3 October | 10 October | 18 October |
| 25 October | 1 November | 8 November | 17 November |

Moon Phase for September to November 2022

Traditional Knowledge Indicators

Vanuatu is currently in its Dry and Cool season and conditions influence the weather and climate. Plants and animals tend to show certain characteristics to indicate potential climate risks. Some local indicators of dry season: (1) Drop in stream and river level. (2) Drop in day and night time temperature. (3) Flowering of Erythrina variegata (Narara) and saccharum plants (Naviso).

Vanuatu istap go tru long Drae mo Kolkol sisen, mo weta mo klaemet l stap jenis folem sisen. Yumi save talem weta mo klaemet tru long fasin blong ol plan mo ol anamol. Hemia hemi sam lokol save we istap talem se yumi stap long drae sisen: (1) Taem we

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Climate Smart Recommendations for Tourism Sector

| | | <i>Recommended Actions</i> | | | | | | | | | | | | | | |
|----------|----------|----------------------------|---------------------|---|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Tourism Operators | Tourists | | | | | | | | | | | | | |
| C | R | a | <i>Below normal</i> | <p>Use water wisely (e.g., watering lawn/ gardens during cool morning/ evening hours)</p> <p>Provide tourists with resource on water saving behaviour</p> <p>Heavily mulch flower beds to reduce evaporation</p> <p>Desalination plants</p> <p>Avoid use of fire</p> | <p>Use water wisely (use water taps responsibly, reduce shower times)</p> <p>Travel with reusable water bottle and filter</p> <p>Support eco-tourism initiatives with a water conservation focus</p> <p>Participate in activities with less reliance on water (e.g., go bush hiking instead of swimming)</p> | | | | | | | | | | | |
| | | i | <i>Above normal</i> | <p>Save enough water for consumption</p> <p>Increase water activities</p> <p>Increase shelter to accommodate rain day activities</p> | <p>Participate in indoor activities</p> <p>Participate in water-based activities</p> | | | | | | | | | | | |
| | n | T | <i>Above normal</i> | <p>Build low huts near beaches to cool off</p> <p>Encourage sun safe behaviour for tourists (sunscreen, staying in shade, etc.)</p> <p>Do not remove branches from trees nearby</p> <p>Heavily mulch flower beds</p> <p>Provide shade tents and cooling stations</p> <p>Use structural or mechanical aid (e.g., umbrellas or wind breaks)</p> <p>Avoid areas of unfavourable weather conditions (e.g., move from sun to shade)</p> | <p>Apply SPF30+ sunscreen every 2 hours</p> <p>Adjust outdoor activities to avoid thermal stress</p> <p>Stay in the shade where possible</p> <p>Keep hydrated</p> <p>Reduce excess movement</p> <p>Wear a shirt, hat, and sunglasses</p> | | | | | | | | | | | |
| v | e | C | <i>Above normal</i> | <p>Reduce stormwater and fertilizer runoff</p> <p>Avoid using herbicides and pesticides</p> <p>Work with government to move towards renewable energy</p> <p>For operators nearby coral, provide extensive education to tourists on how to avoid damaging coral reefs</p> <p>When anchoring boats, avoid anchoring near places with coral reefs</p> <p>Tour boats to avoid releasing grey-water discharge or other water pollutants that can be damaging to marine environment</p> | <p>Do not litter in the marine environment</p> <p>If participating in snorkelling or other water activities nearby coral reefs, take care to not damage coral reefs by stepping on, hitting, or touching corals</p> <p>Ensure sunscreen you use is safe for marine life</p> | | | | | | | | | | | |
| a | r | i | B | l | e | a | c | h | i | n | g | L | e | v | e | I |

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