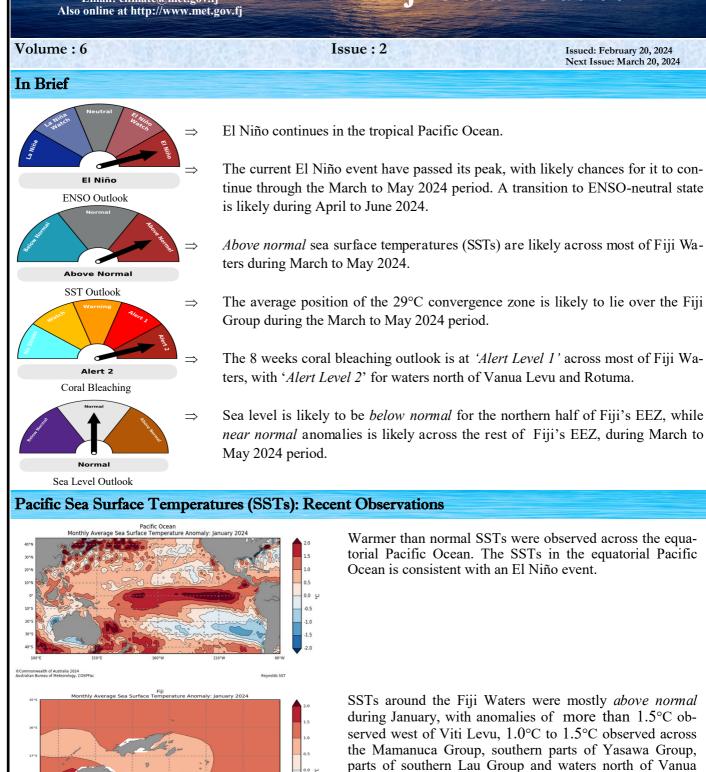
FIJI METEOROLOGICAL SERVICE

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Fiji Ocean Outlook

Levu, while anomalies of 0.5° C to 1.0° C were prevalent



Presence of warmer than usual waters in the central and eastern equatorial Pacific indicate persistence of an El Niño event and cool waters indicate La Niña. Monitoring warm patches of ocean gives insight into the potential for cyclone formation, and possible start or finish of the cyclone season. For further information on ocean temperature refer to <u>http://oceanportal.spc.int/portal/help/about_OceanTemperature.pdf</u>.

for the rest of the Fiji Group.

Possible Applications:

Chlorophyll Concentration

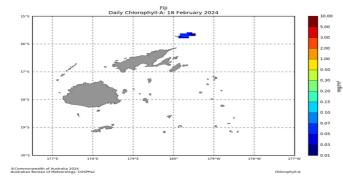


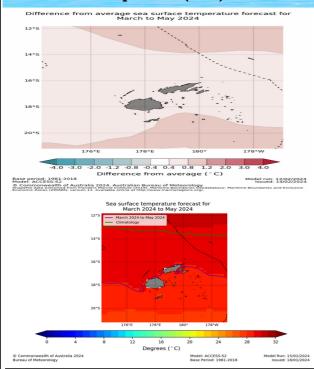
Image on the left illustrates the daily chlorophyll concentration on 18th February 2024.

Slight traces of chlorophyll concentration were seen on the far north of Vanua Levu, while there weren't any chlorophyll concentration observed for the rest of the Fiji Waters.

Possible Applications:

Chlorophyll concentration can be of great interest to fishermen targeting smaller pelagic (open sea) fish. High concentration of chlorophyll can also provide indication of potential hazardous conditions near the coast from reef fish diseases, such as ciguatera, harmful algal blooms, and outbreak of Crown of Thorns starfish, which is a coral eating pest. For further information on chlorophyll concentration refer to <u>http://oceanportal.spc.int/portal/help/</u>about chlorophyll.pdf.

Sea Surface Temperature (SST) Outlook

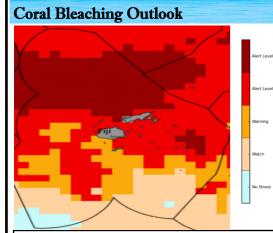


Above normal SSTs are likely across most of Fiji Waters during the March to May 2024 period.

While the average position of the 29°C convergence zone is usually located north of Fiji during this time of the year (green line), it is likely to lie over the Fiji Group during March to May 2024 period (purple line).

Possible Applications:

The movement of the convergence zone has an influence on relative abundance of tuna in the Pacific Ocean. The 29°C isotherm around the western Pacific warm pool forms a good proxy for the convergence zone, and can therefore be used to track the gravity center of Skipjack tuna fishing activity. For further information on seasonal sea surface temperature forecast refer to http://oceanportal.spc.int/portal/help/about_POAMA_SST.pdf.



The 4 weeks coral bleaching outlook is at '*Warning*' across most of Fiji Waters, with '*Alert Level 1*' for waters north of Vanua Levu, west of Viti Levu, some parts of the Lau Group and Rotuma.

The 8 weeks coral bleaching outlook is at '*Alert Level 1*' across most of Fiji Waters, with '*Alert Level 2*' for waters north of Vanua Levu and Rotuma.

The 12 weeks coral bleaching outlook is at 'Alert Level 1' for northern half of Fiji's EEZ, 'Warning' for Yasawas, and 'No Stress' for most parts of Fiji.

Caption: The image is for 8 weeks outlook.

Possible Applications:

Once a potential bleaching event is detected, a management plan should be implemented to reduce the impacts of bleaching. For further information on coral bleaching refer to http://oceanportal.spc.int/portal/help/about_coralbleaching.pdf.

Sea Level Outlook

Difference from average sea surface height forecast for March to May 2024 16 18° 200 176° -60 100 -30 30 60 100 Difference ge (mm) se period: 1981 del: ACCESS-S2 2018 Model run: 12/02/2024 Issued: 14/02/2024 Commonwe Shapefile data ext Ith of Australia 202 acted from Flanders Ma

Below normal sea level is likely for Vanua Levu, northwestern Viti Levu, Yasawa and Mamanuca Groups, as well as Rotuma, while *near normal* sea level is likely for the rest of the Fiji's EEZ, during the March to May 2024 period.

Possible Applications:

Stakeholders can use forecasts of extreme sea level to make decisions about the protection of communities and infrastructure against coastal inundation. For further information on sea level refer to http://oceanportal.spc.int/portal/help/about_POAMA_Sea_Level.pdf.

Tide Predictions (March to May 2024)

Suva Tidal Gauge							Lautoka Tidal Gauge					
Monthly Highest Tide			Monthly Lowest Tide			Monthly Highest Tide			Monthly Lowest Tide			
Date	Time	Height	Date	Time	Height	Date	Time	Height	Date	Time	Height	
12 Mar	07:49	2.12m	11 Mar	00:49	0.36m	10 Mar	18:13	2.39m	11 Mar	00:33	0.25m	
10 Apr	07:22	2.12m	10 Apr	13:46	0.37m	9 Apr	06:16	2.36m	9 Apr	12:35	0.31m	
8 May	06:10	2.08m	9 May	13:30	0.32m	8 May	05:51	2.31m	8 May	12:19	0.28m	

All date and time are in Fiji Standard Time.

Moon Phases (March to May 2024)

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Disclaimer: While Fiji Meteorological Service takes all measures to provide accurate information and data, it does not guarantee 100% accuracy of the information presented in this outlook. The Department should be sought for expert advice, clarifications and additional information as and when necessary. The user assumes all risk resulting directly or indirectly from the use of this outlook.