

5 things you should know from PICOF day 1

Presented by: Ben Noll, NIWA with thanks to BoM, APCC, SPC, and SPREP



















5 things you should know from PICOF day 1

- La Niña thresholds being approached, very warm conditions in the Coral Sea – marine heatwave
- Near or slightly above normal number of tropical cyclones – more active west
- 3) Equatorial countries have a higher chance of below normal rainfall, sub-tropics most likely wetter
- 4) Sea surface heights running 1.5 to 2.5 cm above average, which can contribute to flooding events
- 5) Coral bleaching expected to intensify across some island groups, especially in the west







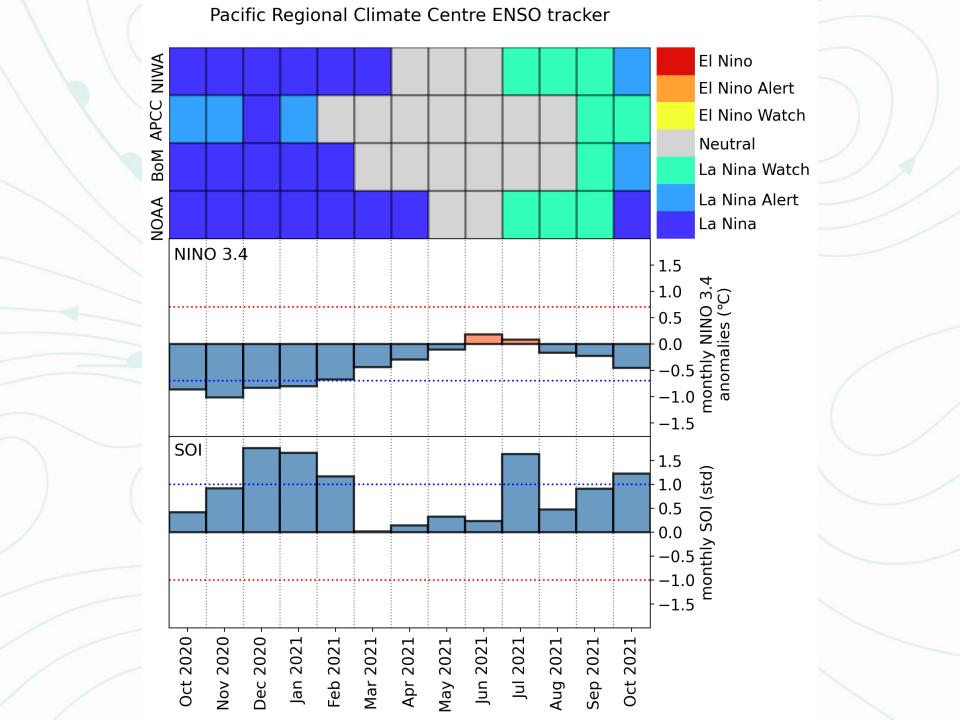


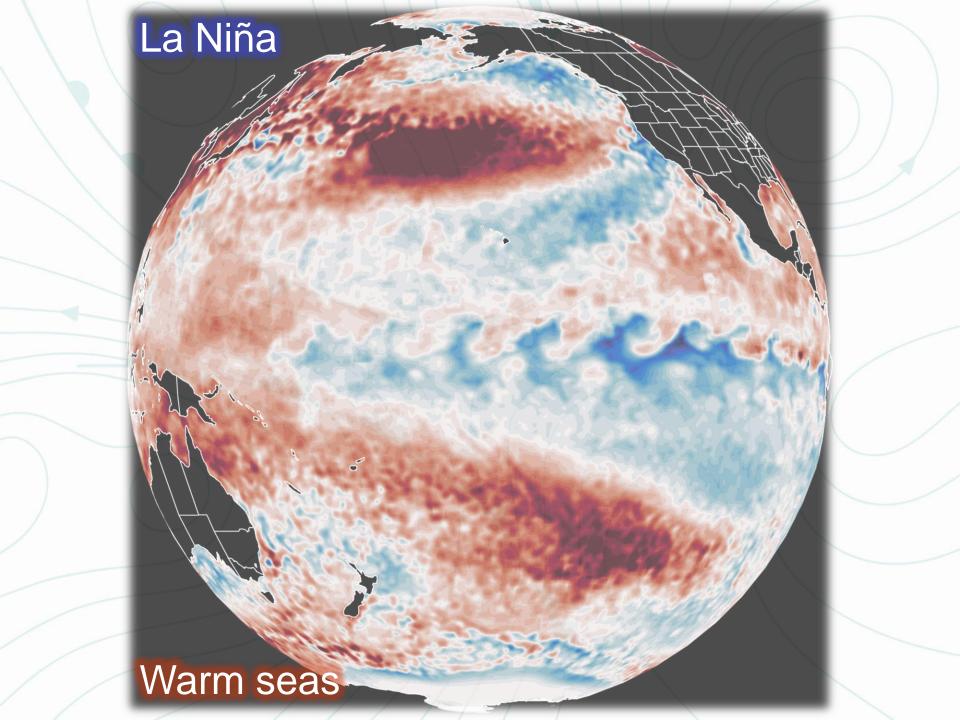


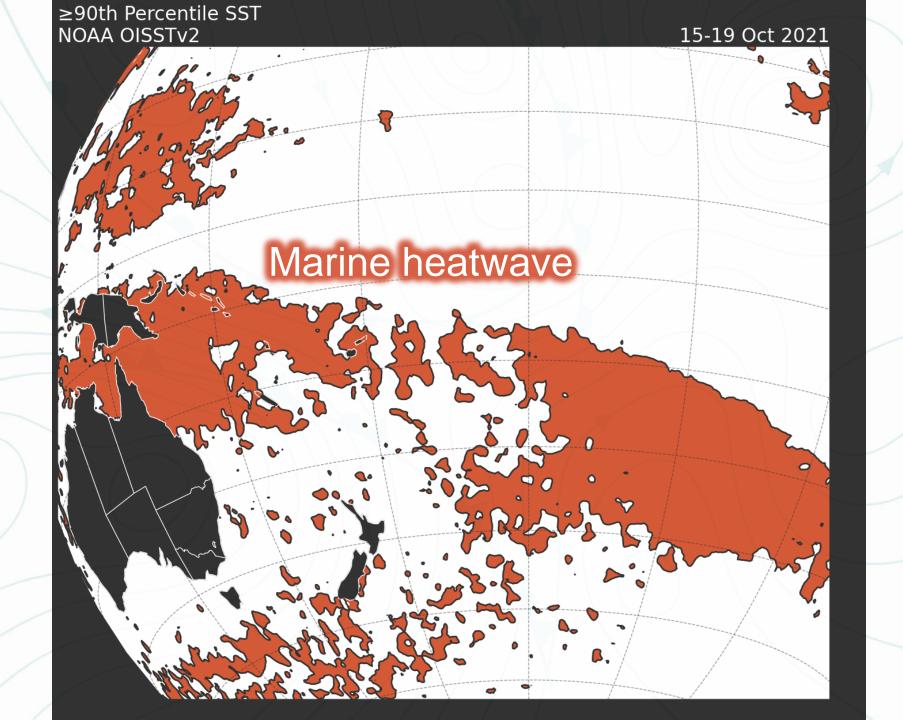


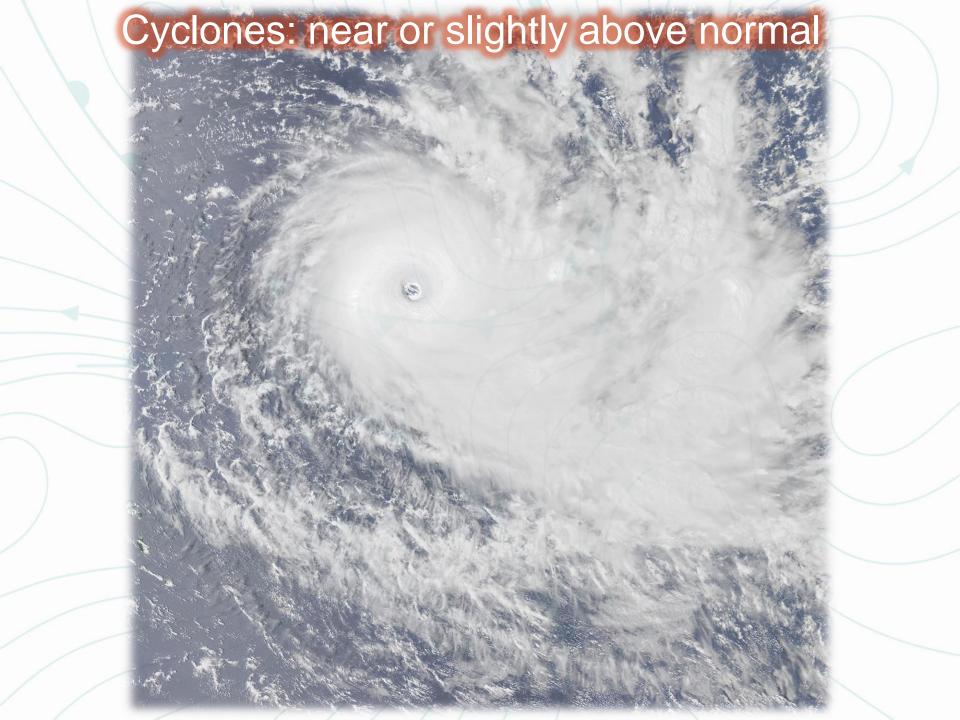




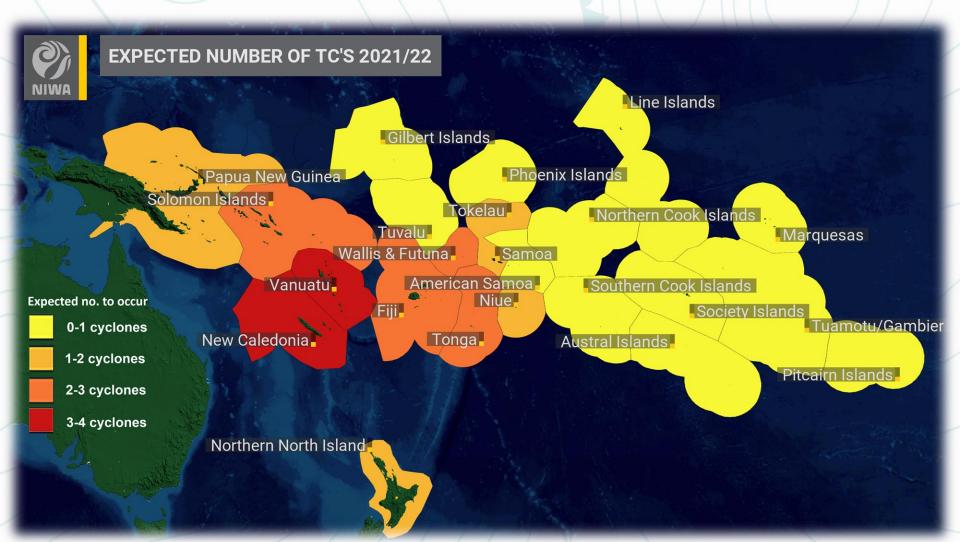






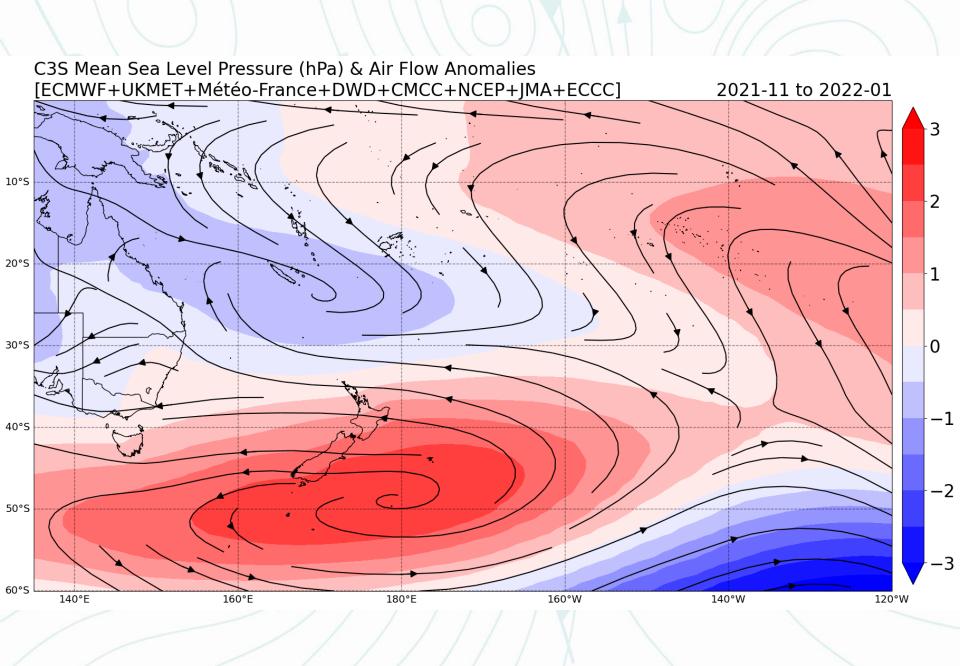


2021-22 NIWA cyclone number outlook 9 to 12 named storms predicted – more active west



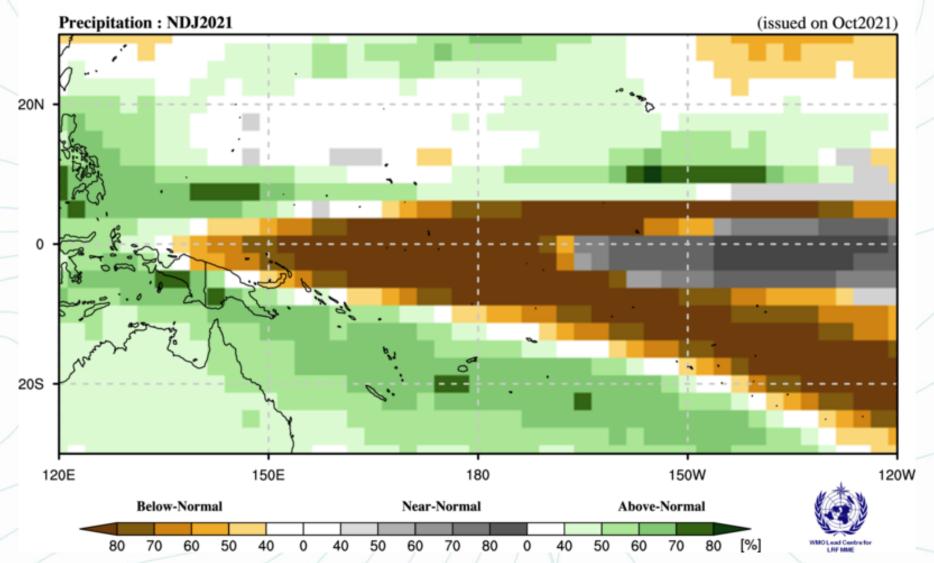


Kiribati Papua New Guinea Tuvalu Solomon Is. Samoa Wallis and Futuna Is. Vanuatu American Samoa Fr. Polynesia Niue Cook Is. Tonga New Caledonia Australia Norfolk Island Western region Eastern region Average: 4 TCs Average: 6 TCs Chance of more: 59 % Chance of more: 46 % New Zealand

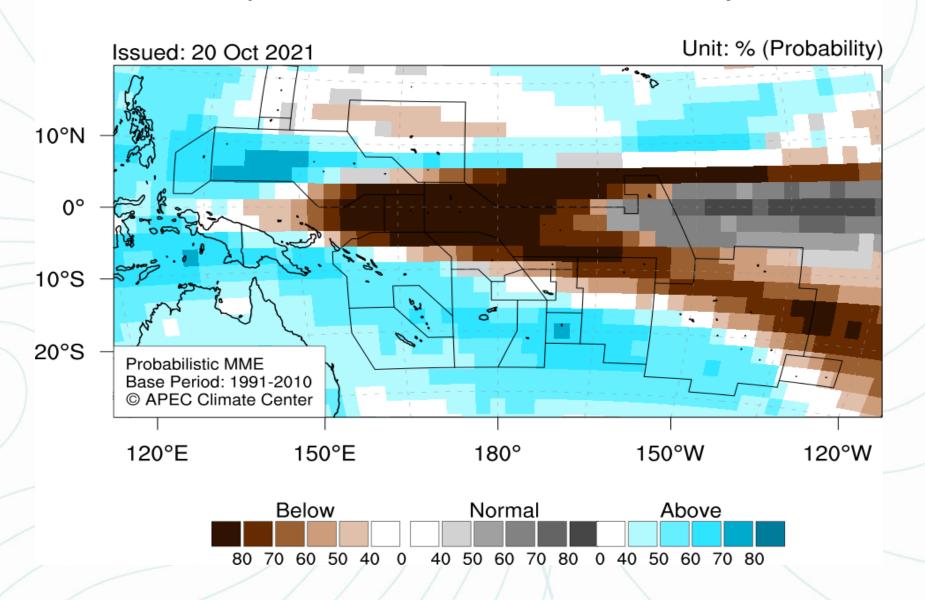


Probabilistic Multi-Model Ensemble Forecast

Beijing, CMCC, CPTEC, ECMWF, Exeter, Melbourne, Montreal, Moscow, Offenbach, Seoul, Tokyo, Toulouse, Washington and Compact of the Compact

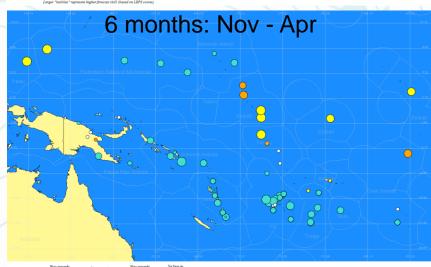


Precipitation for November 2021-January 2022



SCOPIC outlook for Nov 2021-Jan 2022

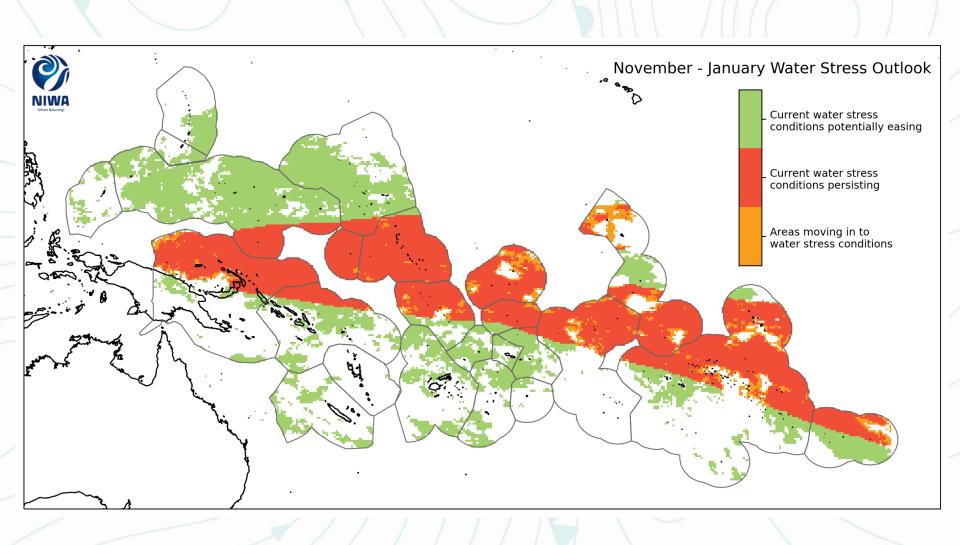




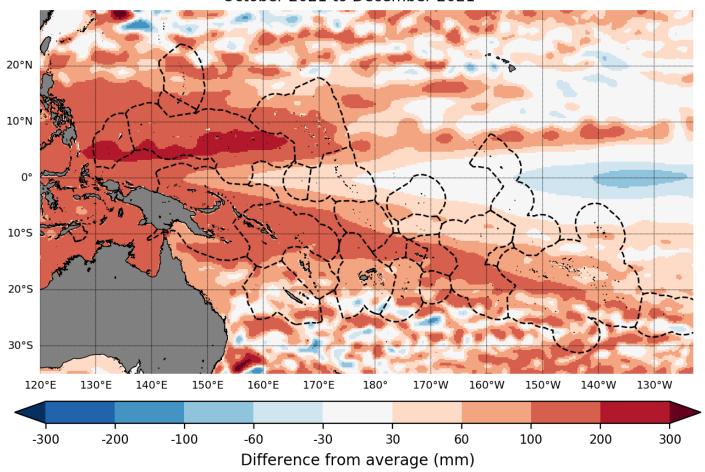
The 3 months forecast is very likely to be above normal rainfall for FSM, Solomon Islands, Vanuatu, Fiji, southern Tuvalu, Tonga, Samoa, Niue and southern Cooks Islands.

Below normal rainfall is very likely for western Kiribati, northern Tuvalu and northern Cook Islands.

6 months –Similar rainfall pattern exist

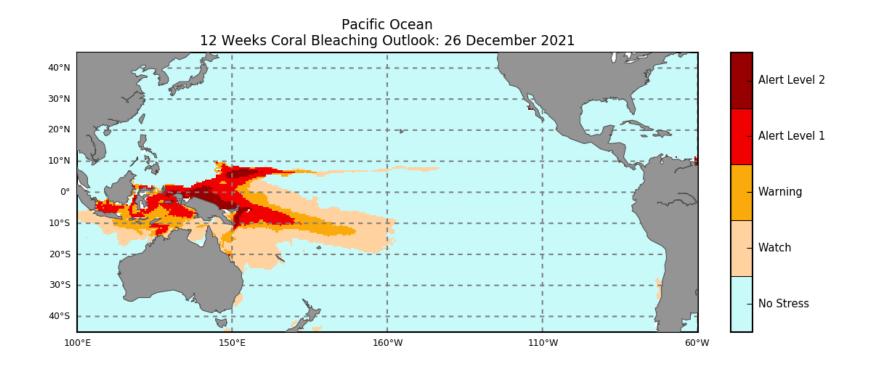


Difference from average sea surface height forecast for October 2021 to December 2021



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Model: ACCESS-S1 Base Period: 1990-2012 Model Run: 27/09/2021 Issued: Map not issued



NOAA Coral Reef Watch

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