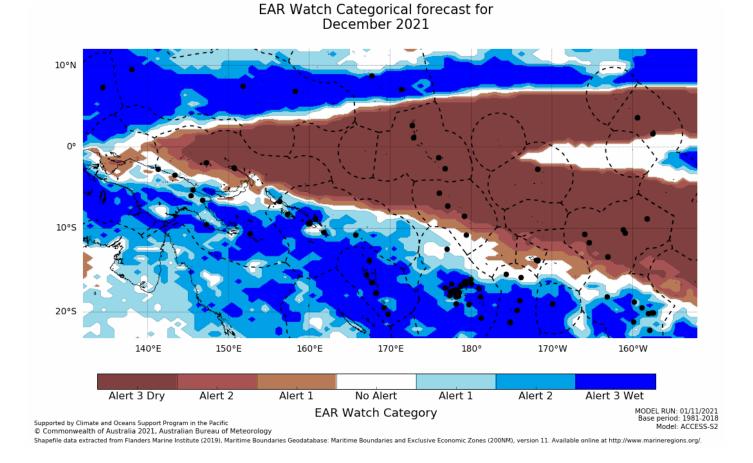
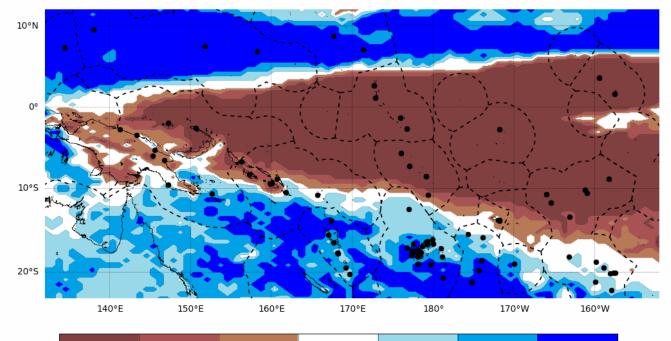


Monthly and Seasonal Rainfall Watch: December 2021 – February 2022



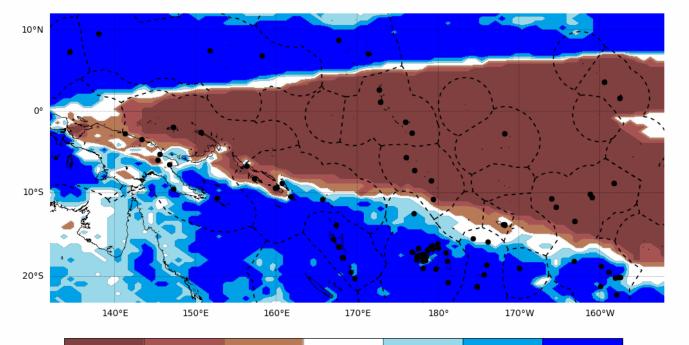
The regional maps are available via http://access-s.clide.cloud/files/project/EAR_watch/pacificx/.

EAR Watch Categorical forecast for January 2022

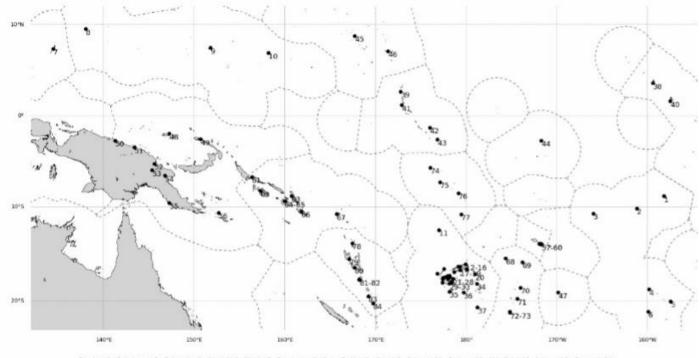




Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineregions.org/. EAR Watch Categorical forecast for December 2021 to February 2022



	Alert 3 Dry	Alert 2	Alert 1	No Alert	Alert 1	Alert 2	Alert 3 Wet	
	and Oceans Support Progr of Australia 2021, Austra			R Watch Categ	Jory		Base	EL RUN: 01/11/2021 period: 1981-2018 Model: ACCESS-S2
Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineregions.org/.								



Penrhyn 1, Rakahanga 2, Pukapuka 3, Altutaki 4, Mauke 5, Barotonga 6, Korer 7, Yap 6, Chuuk 9, Pohnpei 10, Rotuma 11, Udu Peint 12, Labaca 13, Seagaga 14, asawai 15, Makie 10, Savusavu 17, Nabouwalu 18, Viwa 19, Yanuabalavu 20, Pengmi 21, Yawara 22, Dobulevu 23, Rarawai 24, Lautmi 125, R.K.S. Lodoni 26, Naei 27, Monasavu 28, Neuson 29, Koroniva 30, Naccolevu 31, Laucala 32, Tokrtoko 33, Lakeba 34, Vunisea 35, Matuku 36, Ono-Lau 37, Tebuseran 38, Butantari 39, Krittmeth 40, Terawa 41, Berru 42, Arora 43, Kanton 44, Kwajelen 45, Majura 46, Aloh 47, Momote 48, Kavieng 49, Vanimo 50, Wewak 51, Madanda 53, Nataku 54, Aort Moressavu 38, Asama 74, Lautmi 125, Ratiku 39, Koroniva 30, Naccolevu 31, Lautmi 125, Ratiku 34, Orono 148, Kavieng 49, Vanimo 50, Wewak 51, Madanda 52, Sorta 63, Nactaba 54, Pott Moressavy 35, Missima 56, Asau 57, Apie 58, Nafanua 59, Aliamalu 60, Taro Island 61, Munda 62, Auki 63, Henderson 64, Honiara 55, Kira Kira 86, Santa Cruz 67, Niuafoou 88, Niuatoputapu 69, Vavau 70, Haapai 71, Nuku'alofa 72, Jua'armotu 73, Nanuma 74, Nui 75, Fundatti 76, NiulaKita 77, Sola 78, Peke 79, Lamap 50, Jaucate 51, Potta 20, Kira 82, Witter 20, Kira Kira 85, Kanta Cruz 67, Niuafoou 88, Niuatoputapu 69, Vavau 70, Haapai 71, Nuku'alofa 72, Puta armotu 73, Nanuma 74, Nui 75, Fundatti 76, NiulaKita 77, Sola 78, Peke 79, Lamap 50, Jaucate 51, Potta 20, Kira 82, Witter 20, Kira Kira 85, Kira Kira 86, Santa Cruz 67, Niuafoou 88, Niuafoou 73, Natura 70, Natura 70, Natura 70, Natura 73, Natura 74, Natura 74, Natura 74, Natura 70, N

Rating Scale: Below Normal and Above Normal

	Tercile Forecast Probabilities (%)					Tercile Forecast Probabilities (ties (%)		
Forecast Confidence	39-44	45-50	51-54	55-59	60+	Forecast Confidence	39-44	45-50	51-54	55-59	60+
Low						Low					
Low-Medium						Low-Medium					
Medium						Medium					
Medium-High						Medium-High					
High						High					
Very High						Very High					

E.g. If a region has a forecast probability for **above normal** rainfall of **45%** [17/38/45 – below normal/normal/above normal] with a **Medium-High** Confidence, it would give a **Mid-Blue** Alert Rating. Similarly if a region has a forecast probability for **below normal** rainfall of **45%** [45/38/17 – below normal/normal/above normal] with a **Medium-High** Confidence, it would give a **Mid-Brown** Alert Rating.

Rainfall S	Status:	as o	f 31	October	2021
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Alert Level	3-month period			
Seriously wet (90%)	Palau			
Near or wetter than normal	FSM (C, K), Solomon Is. (W, E), Vanuatu (AII), Fiji (N), Tuvalu (S), Kiribati (E), Niue, Cook Islands (AII)			
Warning (25%)	Solomon Is. (C), Fiji (C, E), Tuvalu (N), Kiribati (W)			
Seriously dry (10%)	FSM (P), Marshall Is., Fiji (W), Samoa			
Severely dry (5%)	FSM (Y)			
Status not available	PNG (AII), Fiji (R), Kiribati (C)			

List of Divisions:

Cook Is. (Northern – N)
Cook Is. (Southern – S)
Fiji (Western Division – W)
Fiji (Central Division – C)
Fiji (Eastern Division – E)
Fiji (Northern Division – N)
Fiji (Rotuma – R)
FSM (Yap – Y)
FSM (Chuuk – C)
FSM (Pohnpei – P)

FSM (Kosrae – K) Kiribati (Western Is. – W) Kiribati (Central Is. – C) Kiribati (Eastern Is. – E) Marshall Is. Niue Palau PNG (Momase Region – M) PNG (New Guinea Is. – Is.) PNG (Southern Region – S)

PNG (Highlands – H) Samoa Solomon Is. (Western Region – W) Solomon Is. (Central Region – C) Solomon Is. (Eastern Region – E) Tuvalu (Northern Region – N) Tuvalu (Southern Region – S) Vanuatu (Northern Region – N) Vanuatu (Southern Region – S)

Three-month total rainfall is typically used for monitoring grasslands, shallow rooted plants and small water body (e.g. small water tanks, streams) mositure deficits. Allow for uncertainty associated with island size, topography, geology and soil type.

Rainfall Status

- Estimates of moisture/water stress are based on recent rainfall compared with historical observations using the Percentile (Decile) Index. A division is listed once at the highest station alert within that division.

Seasonal Rainfall Watch

- Information provided gives an indication of predicted total rainfall over the next three months, not how intense the rain may be in any one event, nor how it may vary from month to month.
- Information provided has been given on a divisional scale as Pacific Island Countries can experience a high range of rainfall variability within country. It is possible to have forecasts which simultaneously favour above and below normal rainfall in different parts of the one country.
- Starting at 39%, the alert levels indicate increasing chances of either below or above normal rainfall, as defined below. A measure of confidence, based on historical model performance, also plays a role in the rating level.
- The alerts are based on the highest station probabilities within a country or division.
- Definitions: "Below Normal Rainfall" = rainfall total below the 33rd percentile for that location and season; "Above Normal Rainfall" = rainfall total above the 67th percentile for that location and season.
- Local Met Services should be contacted for detailed information and outlooks. This product is not to be distributed to the public or other organisations.





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