Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 181

Country: Samoa

Part 1: Recent climate

TABLE 1: Monthly Rainfall

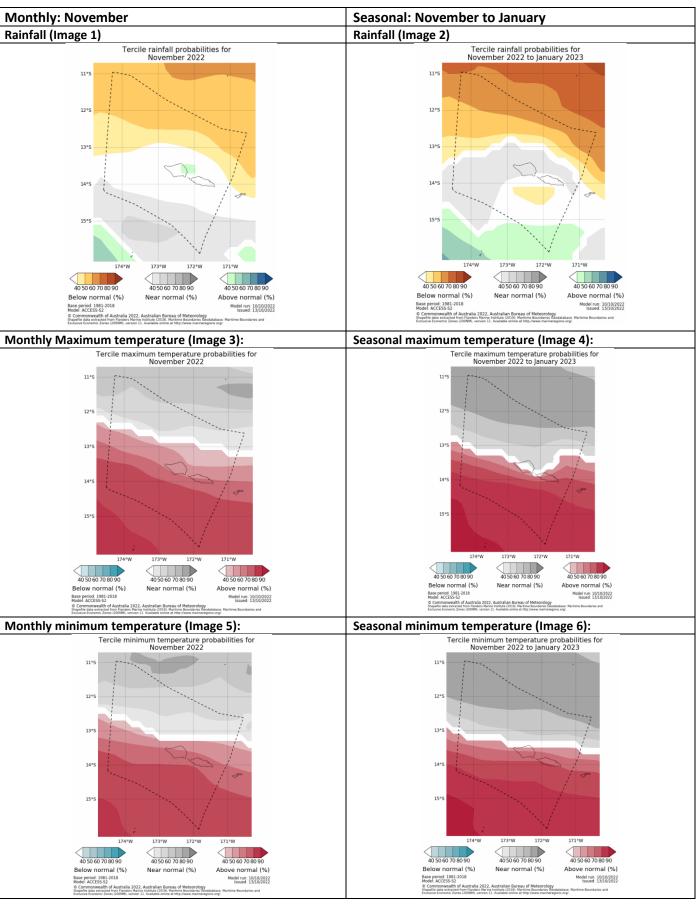
Station (include data period)	Jul-2022	Aug-					
		2022	Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2022)	158.5	156.2	110.5	86.3	172.3	118.6	59/133
Afiamalu (1903-2022)	131.0	259.9	111.2	124.0	219.3	172.0	23/70
Nafanua (1965-2022)	126.4	206.7	118.6	97.1	175.0	149.6	22/50
Faleolo (1956-2022)	69.4	69.7	41.1	54.8	112.3	80.3	14/60

TABLE 2: Three-month Total Rainfall for July to September 2022

Station	Three-n	nonth Total	33%tile	67%tile	Median	Rank	
Apia (1890-2022)	425.2	Normal	280.0	440.0	385.0	89/133	
Afiamalu (1903-2022)	502.1	Below normal	549.3	686.8	614.4	22/68	
Nafanua (1965-2022)	451.7	Normal	334.9	504.5	404.0	28/50	
Faleolo (1956-2022)	180.2	Below normal	202.6	335.3	271.2	18/58	

 $Very \ Low: \ X < 0.0 \qquad \qquad Low: \ 0 \le X < 5 \qquad \qquad Moderate \ 5 \le X < 10 \qquad \qquad Good: \ 10 \le \ X < 15 \qquad High: \ 15 \le X < 25$

Part 1i. Monthly and Seasonal Outlooks for November and November to January 2023



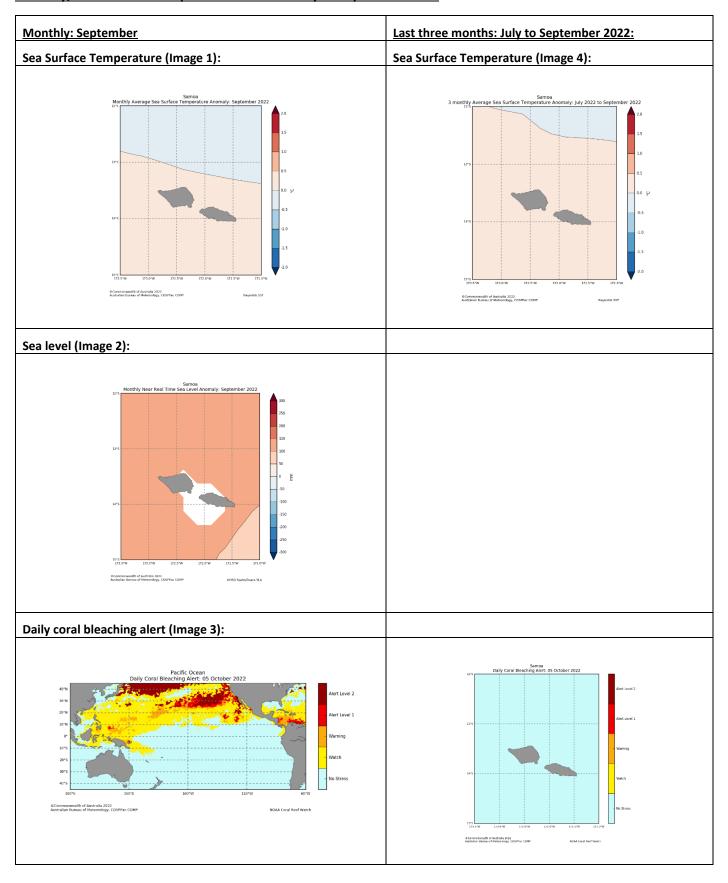
NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low: $0 \le X < 5$ Moderate $5 \le X < 10$ Good: $10 \le X < 15$ High: $15 \le X < 25$

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 2: Recent Ocean Observation

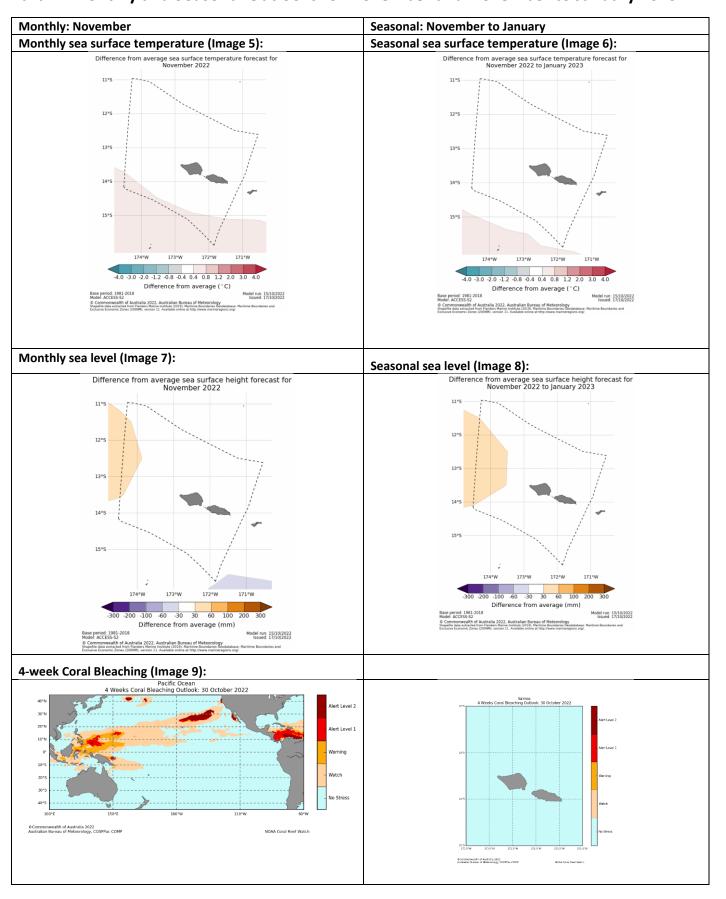
Monthly/Three months: September 2022 and July to September 2022



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Part 2i. Monthly and Seasonal Outlooks for November and November to January 2023



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Summary Statement

Monthly and last three months: September 2022/July to September 2022 statement

The monthly rainfall for Afiamalu and Faleolo was *below normal*, with *normal* rainfall recorded for Apia and Nafanua stations. The three-monthly rainfall was also *below normal* at Afiamalu and Faleolo stations, whereas Apia and Nafanua registered *normal* rainfall.

Part 1i. Monthly and Seasonal Outlooks for November and November to January 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall outlook for November offers little guidance for Samoa, as does the seasonal outlook for Upolu. For Savaii, on the other hand, November to January rainfall is likely to be *near-normal*.

Maximum and minimum temperatures during November are likely to be above normal for Samoa.

Maximum and minimum temperatures averaged over November to January are likely to be *above normal* for the southern region, and *normal* over the northern region of the Samoa islands.

Part 2: Recent Ocean summary statement

Monthly and last three months: September/July to September 2022

The sea surface temperatures for September and last three months, July to September, were near normal conditions for Samoa.

Sea level anomalies around Samoa were above normal with sea level height differences of utmost 150mm for September. Coral bleaching alerts reveals no thermal stress.

Part 2i. Monthly and Seasonal Outlooks for September and September to January 2023

Ocean Variable statement

The monthly SST outlook for November predicts *above normal* temperatures of utmost 0.8°C for the southern Samoa waters, while *normal* conditions is anticipated for the northern region.

The seasonal SST outlook for November to January predicts *normal* temperatures of utmost 0.4°C.

The monthly sea level anomaly outlook for November reveals *near normal* sea level height differences of -30mm to 30mm for the Samoa region.

For the upcoming three months, November 2022 to January 2023, significant sea level height difference of utmost 60mm over far western Samoa waters is forecasted, with remaining region predicted to experience near normal conditions.

Coral bleaching outlook for the next four weeks reveals no thermal stress over Samoa.

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Very High: 25 ≤X < 35 Exceptional: X ≥ 35

TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: September 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Seasonal Climate Outlook	30th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38
EAR Watch	30th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38
Monthly Climate Briefing					
Ocean Outlook	30th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38

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Climate request	data	07th, and 25t	,	China Enginee	Consultants, Harbour ring, National ty of Samoa,	5	3	2
Total					70	30	40	

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