

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 158

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2020	Sep-2020	Oct-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	88.7	233.1	302.4	155.1	257.0	201.0	107/131
Afiamalu (1903-2020)	106.1	310.4	467.7	251.1	415.9	341.6	52/69
Nafanua (1965-2020)	68.1	348.2	367.2	183.0	337.5	237.9	36/49
Faleolo (1956-2020)	23.7	183.6	288.1	124.9	191.3	155.2	55/59

TABLE 2: Three-month Rainfall for August to October 2020

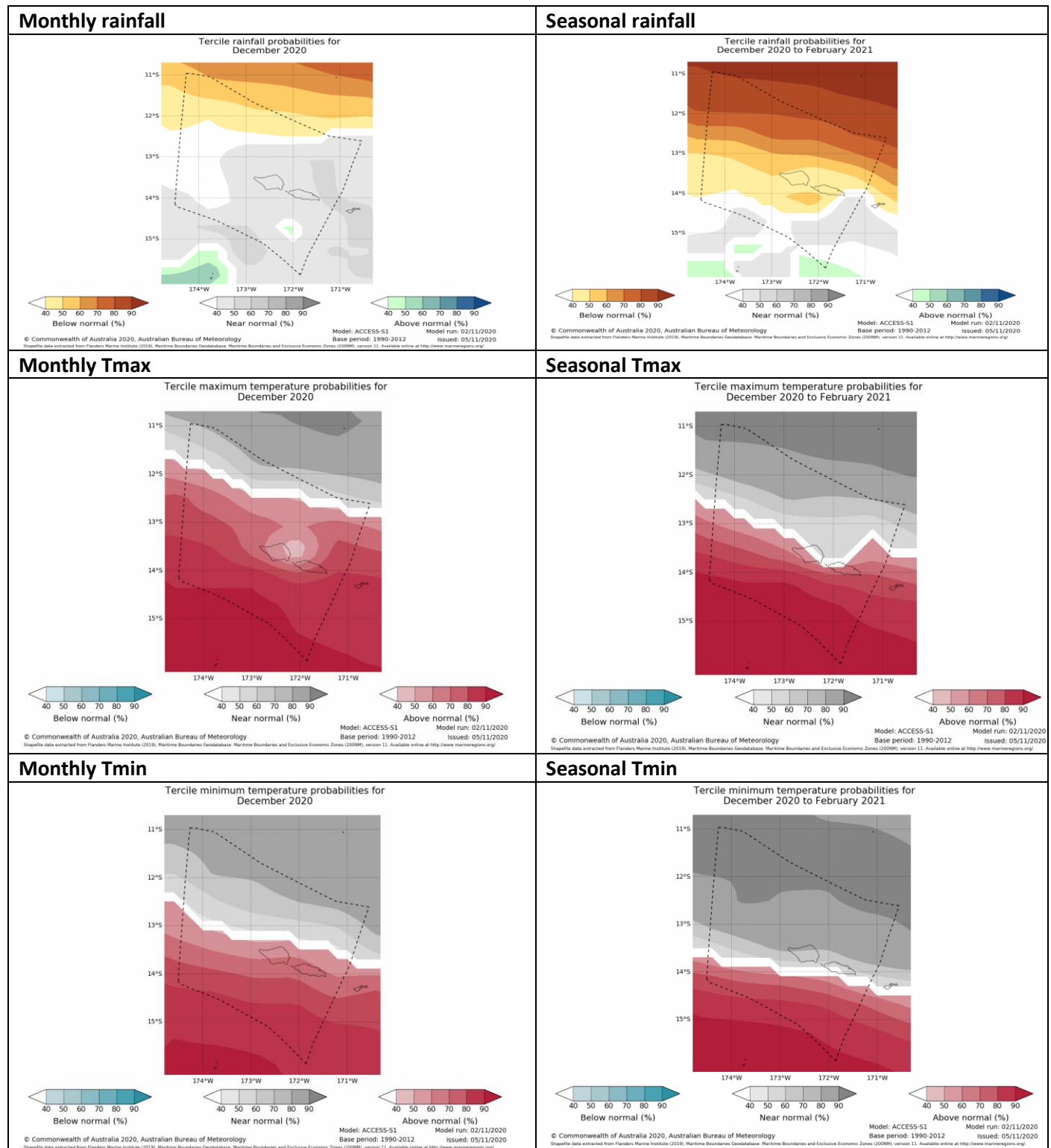
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	624.2	Above normal	387.6	531.7	468.6	112/131	30	35	35	5	Near-consistent
Afiamalu (1903-2020)	884.2	Above normal	643.1	832.5	731.2	50/66	30	35	35	3	Near-consistent
Nafanua (1965-2020)	783.5	Above normal	457.8	593.0	521.1	40/48	31	35	34	1	Near-consistent
Faleolo (1956-2020)	495.4	Above normal	267.9	421.5	350.7	47/57	32	34	34	2	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2020 to February 2021
Predictor and Period used: NINO3.4 for September to October 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	35	1131.4	65		7	58
Afiamalu (1903-2020)	35	1997.3	65		8	61
Nafanua (1965-2020)	25	1391.2	75		19	63
Faleolo (1956-2020)	40	871.2	60		2	58

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	13	943.7	41	1354.8	46	13	45
Afiamalu (1903-2020)	18	1709.9	34	2288.3	48	11	46
Nafanua (1965-2020)	4	1192.6	50	1710.1	46	23	51
Faleolo (1956-2020)	24	767.7	39	962.2	37	1	42

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for December 2020 to February 2021



Summary Statements

Rainfall for October 2020:

Above normal rainfall was observed for all stations. Faleolo station recorded its fifth wettest October on record.

Accumulated rainfall for August to October 2020, including outlook verification:

All stations received *above normal* rainfall. The outlook issued in July was verified to be Near-Consistent for all stations as well.

Outlooks for December 2020 February 2021:

1. **SCOPIG:** For Apia and Afiamalu, the outlook shows *above normal* as the most likely outcome, with *normal* the next most likely.
For Nafanua, the outlook favours *normal* as the most likely outcome, with *above normal* rainfall the next most likely.
For Faleolo, the outlook shows a near-equal likelihood of *above normal* and *normal* rainfall.

2. **ACCESS-S:**

Monthly rainfall: *Near-normal* rainfall is the most likely outcome for Samoa in December.

Monthly maximum and minimum temperatures: December is favoured to be *above normal* across Samoa.

Seasonal rainfall: The outlook shows *below normal as the most likely outcome* for Samoa for the December to February period.

Seasonal maximum temperature: The outlook shows favours *above normal* maximum temperatures for the next three months.

Seasonal minimum temperature: *Near-normal* minimum temperatures is the most likely outcome for Samoa for December to February.

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

TABLE 5: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: October 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Agro Met Bulletin	14 October	MAF, FAO, USP and Samoa Met	12	4	8
TC Outlook	31 October	MNRE, Media Outlets, 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
Total			77	31	46