

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 162

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2020	Jan-2021	Feb-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2021)	778.8	635.1	664.7	271.2	378.2	331.3	123/132
Afiamalu (1903-2021)	1316.1	993.2	1024.2	453.0	694.5	567.7	59/68
Nafanua (1965-2021)	870.0	850.9	759.7	353.3	473.6	400.5	44/49
Faleolo (1956-2021)	607.7	344.6	540.6	189.8	286.6	238.1	56/60

TABLE 2: Three-month Rainfall for December 2020 to February 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2021)	2078.6	Above normal	943.7	1354.8	1131.4	129/130	13	41	46	13	Consistent
Afiamalu (1903-2021)	3333.5	Above normal	1709.9	2288.3	1997.3	61/65	18	34	48	11	Consistent
Nafanua (1965-2021)	2480.6	Above normal	1192.6	1710.1	1391.2	40/42	4	50	46	23	Near-consistent
Faleolo (1956-2021)	1492.9	Above normal	767.7	962.2	871.2	55/56	24	39	37	1	Near-consistent

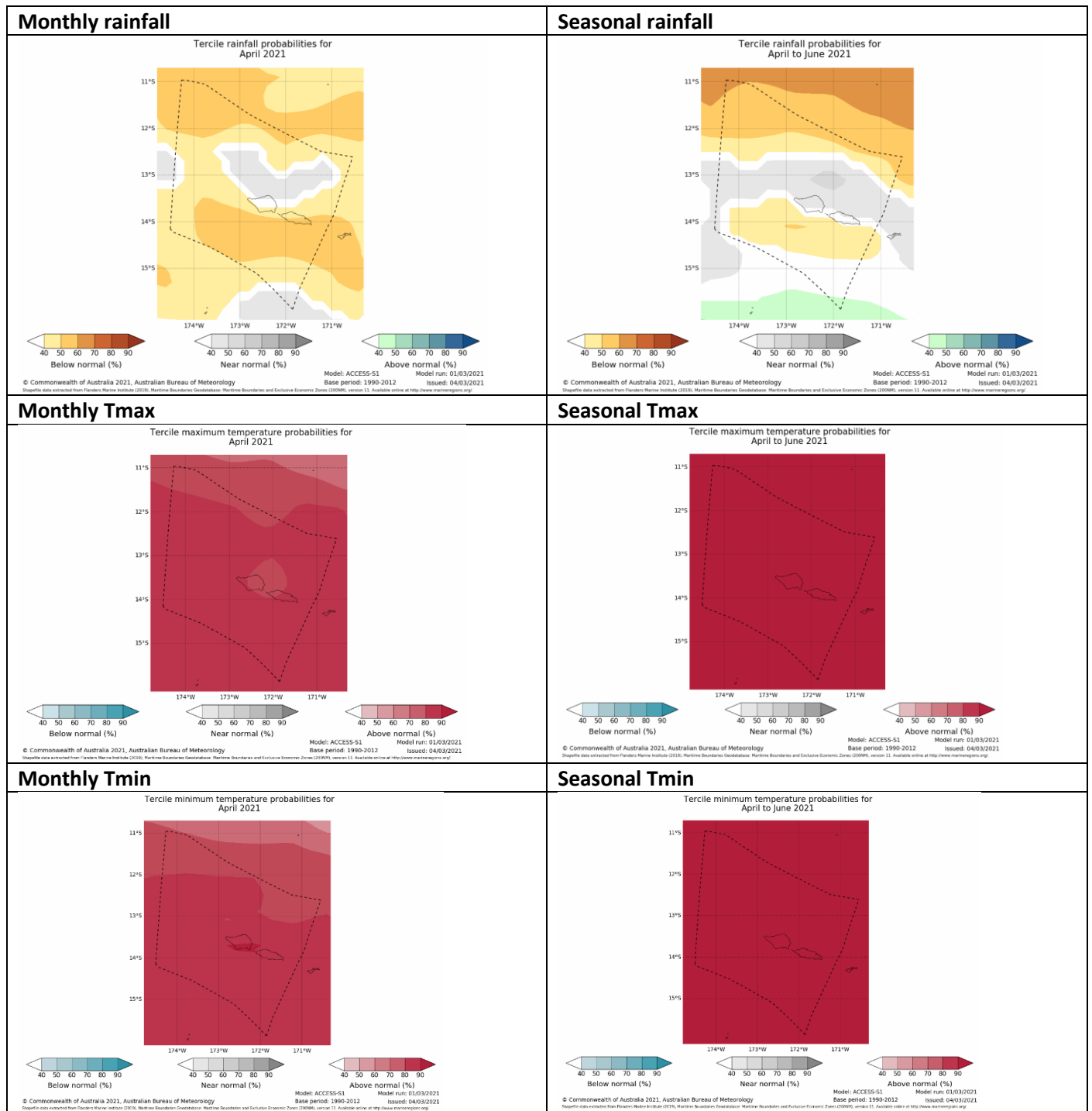
TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2021

Predictor and Period used: NINO3.4 for January to February 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2021)	43	568.0	57		0	49
Afiamalu (1903-2021)	43	885.4	57		0	53
Nafanua (1965-2021)	45	686.6	55		-1	48
Faleolo (1956-2021)	41	413.7	59		1	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 (1890-2021)	24	480.2	38	667.7	38	1	28
Afiamalu (1903-2021)	18	797.6	51	996.4	31	2	46
Nafanua (1965-2021)	21	563.6	47	746.4	32	1	44
Faleolo (1956-2021)	27	352.6	40	471.8	33	-1	44

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for April to June 2021



Summary Statements

Rainfall for February 2021: Rainfall was *above normal* over Samoa in February. Moreover, Faleolo recorded its fifth wettest February on record, Nafanua its sixth, and Apia its tenth wettest since the station's establishment in 1890.

Accumulated rainfall for December 2020 to February 2021, including outlook verification: Rainfall was very much *above normal* across the country for the last three months. The outlook issued in November was verified to be consistent at Apia and Afiamalu, and near-consistent at Nafanua and Faleolo.

Apia and Faleolo had their second highest December to February rainfall on record, while Nafanua recorded its third highest and Afiamalu its fifth highest December to February rainfall.

Outlooks for April to June 2021:

1. SCOPIC:

The outlook shows *normal rainfall* as the favoured or most likely outcome at Afiamalu, Nafanua and Faleolo, with *above normal* the next most likely. *Below normal* is the least likely. The outlook for Apia shows a near-equal likelihood of *above normal* and *normal rainfall*. *Below normal* is the least likely.

2. ACCESS-S:

Monthly rainfall: *Below normal* is favoured for Samoa for April, apart from the northern part of Savaii where there is little guidance.

Monthly maximum and minimum temperatures: April is favoured to have *above normal* temperatures across Samoa.

Seasonal rainfall: The outlook shows *near-normal* is the most likely outcome for Savaii, but there is little guidance on rainfall for Upolu for the April to June period.

Seasonal maximum temperature minimum temperature: *Above normal* maximum and minimum temperatures are favoured across Samoa for the April to June period.

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: February 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
N /A	N/A	N/A	N/A	N/A	N/A
Total					