

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 152

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2020	Mar-2020	Apr-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	922.7	127.9	270.3	165.9	276.8	220.4	87/131
Afiamalu (1903-2020)	1516.9	294.5	359.5	286.9	395.9	342.7	40/67
Nafanua (1965-2020)	1263.0	100.9	270.2	176.5	311.2	240.3	27/50
Faleolo (1956-2020)	648.8	62.3	225.8	139.2	190.7	158.6	45/59

TABLE 2: Three-month Rainfall for February to April 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	1320.9	Above normal	828.9	1009.4	930.0	121/131	38	34	28	3	Inconsistent
Afiamalu (1903-2020)	2170.9	Above normal	1370.6	1585.2	1456.7	55/65	32	36	32	-1	Near-consistent
Nafanua (1965-2020)	1634.1	Above normal	913.0	1137.6	1056.2	45/48	40	39	21	5	Inconsistent
Faleolo (1956-2020)	936.9	Above normal	591.5	696.1	633.8	53/59	31	34	35	-1	Consistent

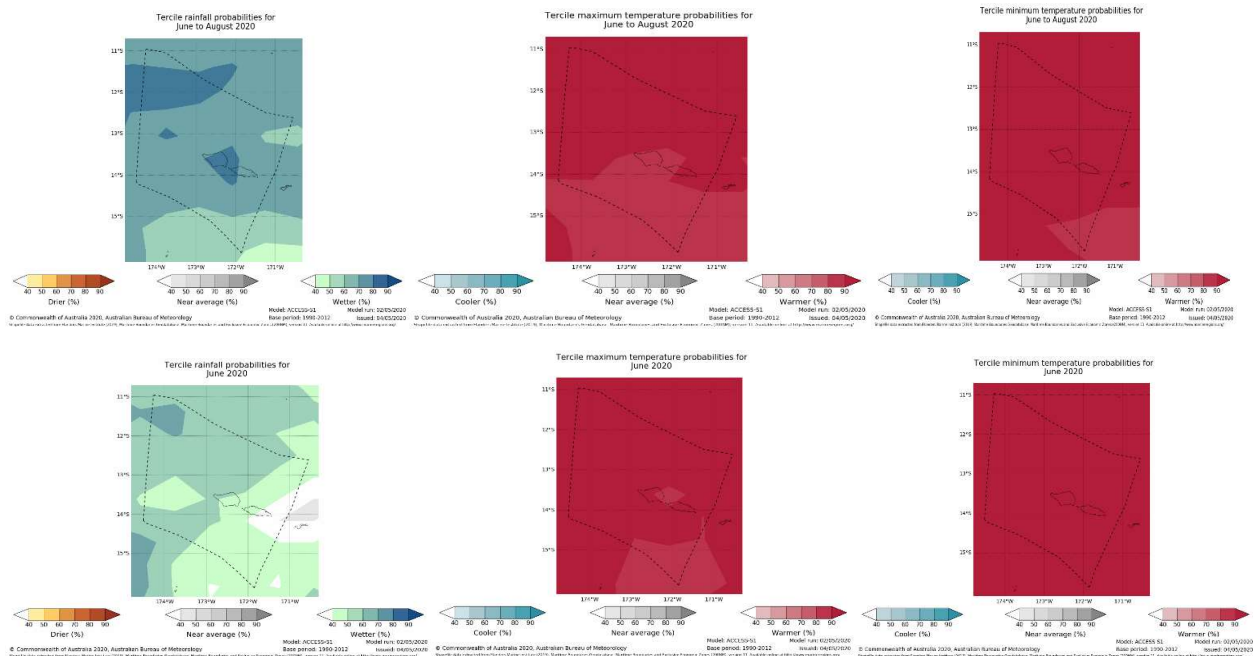
TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2020

Predictor and Period used: NINO3.4 for March to April 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	52	382.2	48		-1	50
Afiamalu (1903-2020)	61	607.3	39		3	54
Nafanua (1965-2020)	54	408.5	46		-1	46
Faleolo (1956-2020)	63	289.9	37		6	63

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)	36	301.5	36	446.4	28	-1	20
Afiamalu (1903-2020)	44	517.5	27	670.9	29	2	35
Nafanua (1965-2020)	37	297.0	26	502.6	37	-2	
Faleolo (1956-2020)	38	208.7	36	355.9	26	0	38

Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2020



Summary Statements

Rainfall for April 2020:

All stations recorded *normal* rainfall, with the exception of Faleolo station having recorded *above normal* rainfall.

Accumulated rainfall for February to April 2020, including outlook verification:

Above normal rainfall was recorded for all stations. The outlook for this period, issued in January, was verified to be Consistent at Faleolo, Near-Consistent at Afiamalu, and Inconsistent at Apia and Nafanua stations. Apia recorded its eleventh and Nafanua recorded its fourth wettest February-April period on record respectively.

Outlooks for June to August 2020:

- 1. SCOPIC:** The outlook for Afiamalu shows *below normal* as the most likely outcome, with *above normal* the next most likely.
For Faleolo, the outlook shows a near-equal likelihood of *below normal* and *normal* rainfall.
For Nafanua, the outlook is mixed, with similar chances of *below normal* and *above normal* totals, with *normal* the least likely.
The outlook offers little guidance for Apia as the chances of *below normal*, *normal* and *above normal* are similar.

2. ACCESS-S:

Monthly rainfall: *Wetter than average* rainfall is favoured for Samoa in June 2020.

Monthly maximum and minimum temperature: Both days and nights are favoured to be *warmer than average* in June.

Seasonal rainfall: *Wetter than average* is favoured for Samoa in the upcoming season.

Seasonal maximum and minimum temperature: *Warmer than normal* is favoured for the June to August 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: April 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	27 th	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
Ocean Bulletin	27 th	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	65	27	38

		Managers, Marines			
Total			65	27	38