Pacific Islands - Online Climate Outlook Forum (OCOF) No. 151

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2020	Feb-2020	Mar-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	544.7	922.7	127.9	271.8	364.8	309.0	**5/131**
Afiamalu (1903-2020)	969.9	1516.9	294.5	410.5	590.5	518.0	16/68
Nafanua (1965-2020)	703.8	1263.0	100.9	301.1	392.2	342.7	**3/48**
Faleolo (1956-2020)	476.7	648.8	62.3	184.9	244.5	215.9	**2/59**

TABLE 2: Three-month Rainfall for January to March 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 October-November 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	1595.3	Above normal	991.1	1255.5	1089.9	**119/131**	45	32	23	12	Inconsistent
Afiamalu (1903-2020)	2781.3	Above normal	1676.2	2053.8	1791.7	**62/66**	42	33	25	8	Inconsistent
Nafanua (1965-2020)	2067.7	Above normal	1086.0	1611.0	1237.2	**43/46**	47	24	29	17	Inconsistent
Faleolo (1956-2020)	1187.8	Above normal	690.3	884.2	784.9	**54/59**	38	33	29	2	Inconsistent

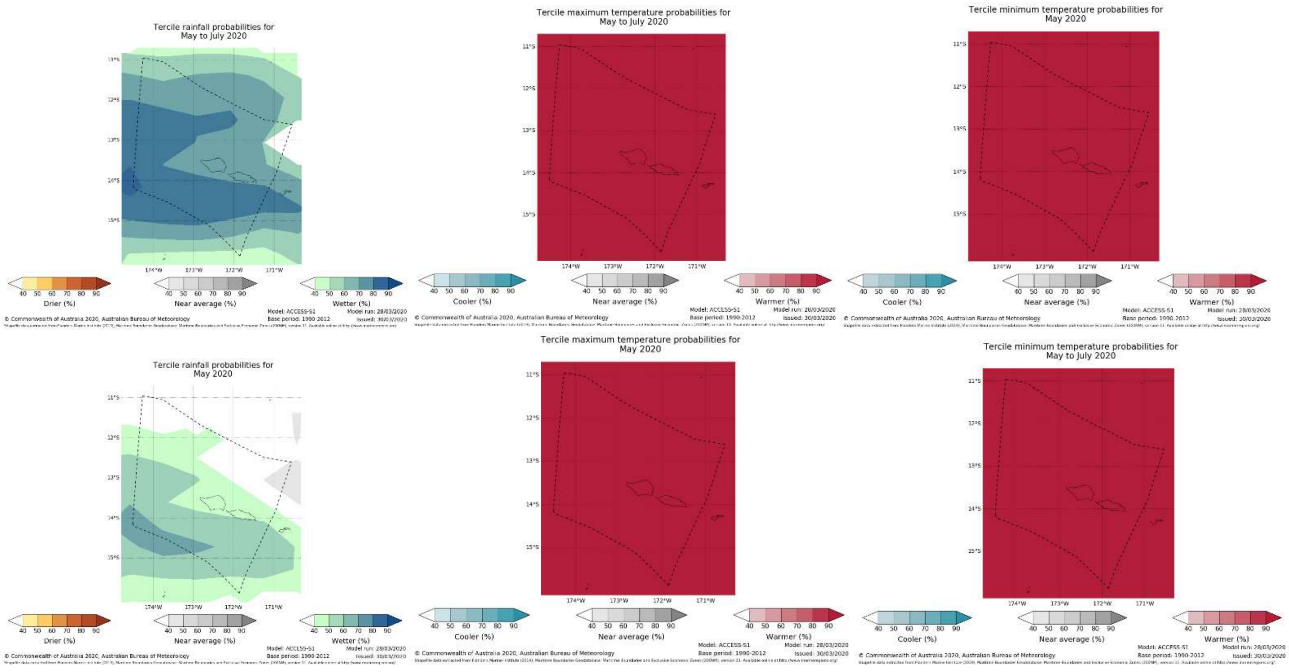
TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2020

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	54	453.0	46		0	50
Afiamalu (1903-2020)	57	738.2	43		3	50
Nafanua (1965-2020)	51	527.6	49		-2	34
Faleolo (1956-2020)	56	325.6	44		2	60

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)	37	390.4	31	526.9	32	0	33
Afiamalu (1903-2020)	42	648.0	26	849.5	32	5	45
Nafanua (1965-2020)	34	456.2	32	634.1	34	-3	15
Faleolo (1956-2020)	35	274.6	39	391.5	26	1	37

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



Summary Statements

Rainfall for March 2020:

All stations recorded *below normal* rainfall for March 2020. Afiamalu, Nafanua and Faleolo station rainfall totals were registered below the 10th percentile, where Afiamalu recorded its fifth, Nafanua its third and Faleolo its second driest March totals since the stations were established.

Accumulated rainfall for January to March 2020, including outlook verification:

In contrast to March, the very heavy rains of January and February were sufficient to produce *above normal* rainfall totals for all stations for the January to March period. The outlook was therefore verified to be Inconsistent for all stations, where *below normal* rainfall was the most likely outcome for the period January to March 2020. Nafanua recorded its fourth, Afiamalu its fifth and Faleolo its sixth wettest January to March rainfall totals on record.

Outlooks for May to July 2020:

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

2. **ACCESS-S:**

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

   Seasonal maximum temperature: *Above average* maximum temperature is favoured for Samoa in the upcoming season.

   Seasonal minimum temperature: *Warmer than average* minimum temperature is favoured for Samoa in the upcoming season.

   Monthly rainfall: *Above average* rainfall is favoured for Samoa in May.

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

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

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

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

Product	Date: March 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	31st	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	31st	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			
Ocean Bulletin	31st	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	65	27	38