

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 164

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2021	Mar-2021	Apr-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2021)	664.7	254.6	130.9	168.3	274.9	220.7	23/132
Afiamalu (1903-2021)	1024.2	274.6	317.5	287.1	394.5	345.0	30/68
Nafanua (1965-2021)	759.7	312.4	207.8	177.9	309.5	250.6	22/51
Faleolo (1956-2021)	540.6	116.0	78.7	139.9	191.6	159.0	7/60

TABLE 2: Three-month Rainfall for February to April 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2021)	1050.2	Above normal	829.8	1009.9	935.0	91/132	24	35	41	2	Consistent
Afiamalu (1903-2021)	1616.3	Above normal	1372.6	1596.9	1458.8	46/66	37	27	36	-1	Inconsistent
Nafanua (1965-2021)	1279.9	Above normal	915.3	1148.3	1062.8	38/49	18	45	37	3	Near-consistent
Faleolo (1956-2021)	735.3	Above normal	591.8	707.3	636.4	43/60	39	31	30	-1	Inconsistent

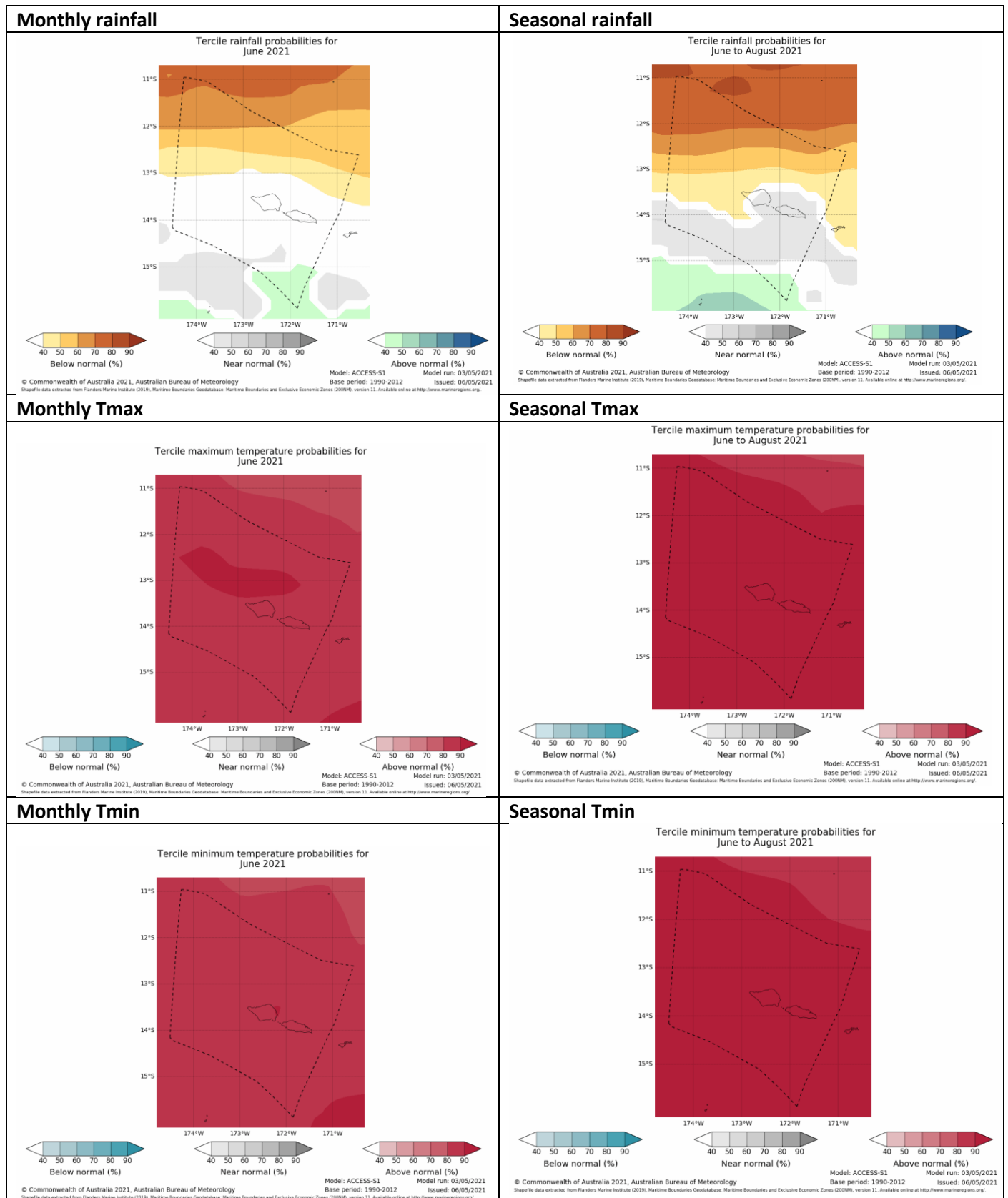
TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2021

Predictor and Period used: NINO3.4 for March to April 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2021)	49	382.7	51		-1	44
Afiamalu (1903-2021)	41	608.2	59		2	55
Nafanua (1965-2021)	46	413.4	54		-1	47
Faleolo (1956-2021)	38	292.5	62		4	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 (1890-2021)	31	307.2	31	448.1	38	-1	31
Afiamalu (1903-2021)	24	522.1	39	674.3	37	1	24
Nafanua (1965-2021)	31	297.5	42	504.3	27	-2	39
Faleolo (1956-2021)	29	209.6	31	364.0	40	0	42

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



Summary Statements

Rainfall for April 2021: Rainfall was *below normal* for Apia and Faleolo, while Afiamalu and Nafanua recorded *normal* rainfall.

Accumulated rainfall for February to April 2021, including outlook verification: *Above normal* rainfall was recorded throughout the country. The outlook that was issued in January was verified to be *consistent* at Apia, *near-consistent* at Nafanua and *inconsistent* at Afiamalu and Faleolo.

Outlooks for June to August 2021:

SCOPIC:

Faleolo: The outlook shows above normal rainfall as the most likely outcome, with normal the next most likely. Below normal is the least likely.

Nafanua: The outlook shows normal rainfall as the most likely outcome, with below normal the next most likely. Above normal is the least likely.

Afiamalu: The outlook shows a near-equal likelihood of normal and above normal rainfall. Below normal is the least likely.

Apia: The outlook offers little guidance as the chances of above normal, normal and below normal rainfall are similar.

1. ACCESS-S:

Monthly rainfall: The outlook offers little guidance for **June** for the main islands, although below normal rainfall is favoured over the northern half of the EEZ.

Monthly maximum and minimum temperatures: *Above normal* temperatures are favoured across Samoa for June.

Seasonal rainfall: The outlook shows normal rainfall as the most likely outcome for Samoa's main islands for **June to August**. However, similar to the June outlook, below normal rainfall is favoured over the northern half of Samoa's EEZ.

Seasonal maximum and minimum temperatures: The outlook shows *above normal* temperatures are favoured for Samoa 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 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Monthly Climate Briefing	23 rd	DMO, Water Resource Division (WRD), Met staff	17	10	7
Total			17	10	7