

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 160

Country: Samoa

**TABLE 1: Monthly Rainfall**

Station (include data period)	Oct-2020	Nov-2020	Dec-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	302.4	202.1	778.8	306.5	461.7	373.6	127/130
Afiamalu (1903-2020)	467.7	460.7	1316.1	476.8	704.5	551.6	63/68
Nafanua (1965-2020)	367.2	254.0	870.0	347.9	504.6	417.3	45/46
Faleolo (1956-2020)	288.1	239.3	607.7	219.5	318.5	268.0	58/59

**TABLE 2: Three-month Rainfall for October to December 2020**

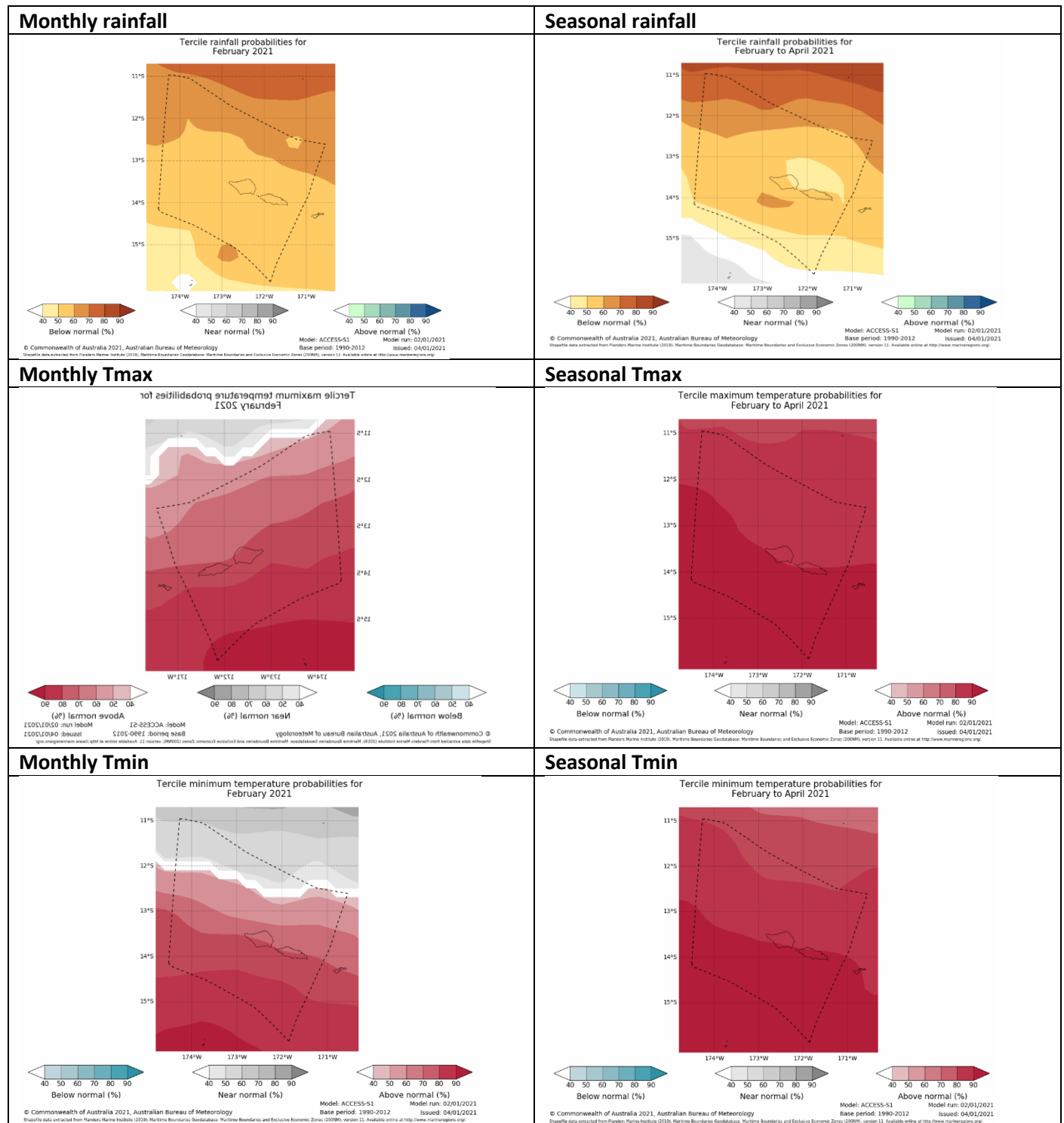
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 July-August 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	1283.3	Above normal	737.1	914.5	819.8	123/130	30	32	38	2	Consistent
Afiamalu (1903-2020)	2244.5	Above normal	1212.5	1486.7	1329.6	62/67	24	38	38	7	Near-consistent
Nafanua (1965-2020)	1491.2	Above normal	807.2	1038.2	952.0	42/45	25	34	41	10	Consistent
Faleolo (1956-2020)	1135.1	Above normal	549.3	715.8	634.3	56/58	32	30	38	2	Consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	41	935.0	59		2	60
Afiamalu (1903-2020)	56	1458.8	44		0	58
Nafanua (1965-2020)	39	1062.8	61		3	63
Faleolo (1956-2020)	57	636.4	43		0	56

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)	24	829.8	35	1009.9	41	2	40
Afiamalu (1903-2020)	37	1372.6	27	1596.9	36	-1	41
Nafanua (1965-2020)	18	915.3	45	1148.3	37	3	35
Faleolo (1956-2020)	39	591.8	31	707.3	30	-1	34

**TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for February to April**



## **Summary Statements**

**Rainfall for December 2020:** All stations recorded *Above Normal* rainfall, with Nafanua and Faleolo registering their second highest December rainfall on record. Apia recorded its fourth wettest December, while Afiamalu recorded its sixth.

**Accumulated rainfall for October to December 2020, including outlook verification:** *Above Normal* rainfall was recorded across all stations. Faleolo had its third highest October-December rainfall, Nafanua its fourth highest, Afiamalu its sixth highest and Apia its eighth highest. The outlook issued in September was generally consistent, apart from Afiamalu whose outlook was near-consistent.

### **Outlooks for February to April 2021:**

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

2. **ACCESS-S:**

**Monthly rainfall:** *Below normal* rainfall is the most likely outcome for Samoa in February

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

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

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

