

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 159

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2020	Oct-2020	Nov-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	233.1	302.4	202.1	183.7	298.8	237.5	51/131
Afiamalu (1903-2020)	310.4	467.7	460.7	301.5	463.5	369.7	45/68
Nafanua (1965-2020)	348.2	367.2	254.0	201.7	321.6	275.5	23/50
Faleolo (1956-2020)	183.6	288.1	239.3	155.4	216.6	174.6	45/59

**TABLE 2: Three-month Rainfall for September to November 2020**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	737.6	Above normal	496.1	684.4	603.3	98/131	32	34	34	4	Near-consistent
Afiamalu (1903-2020)	1238.8	Above normal	798.2	1088.5	914.4	52/67	33	33	34	3	Near-consistent
Nafanua (1965-2020)	969.4	Above normal	592.5	756.4	672.4	41/48	30	35	35	4	Near-consistent
Faleolo (1956-2020)	711.0	Above normal	387.9	518.2	459.4	<b>52/57</b>	31	34	35	1	Consistent

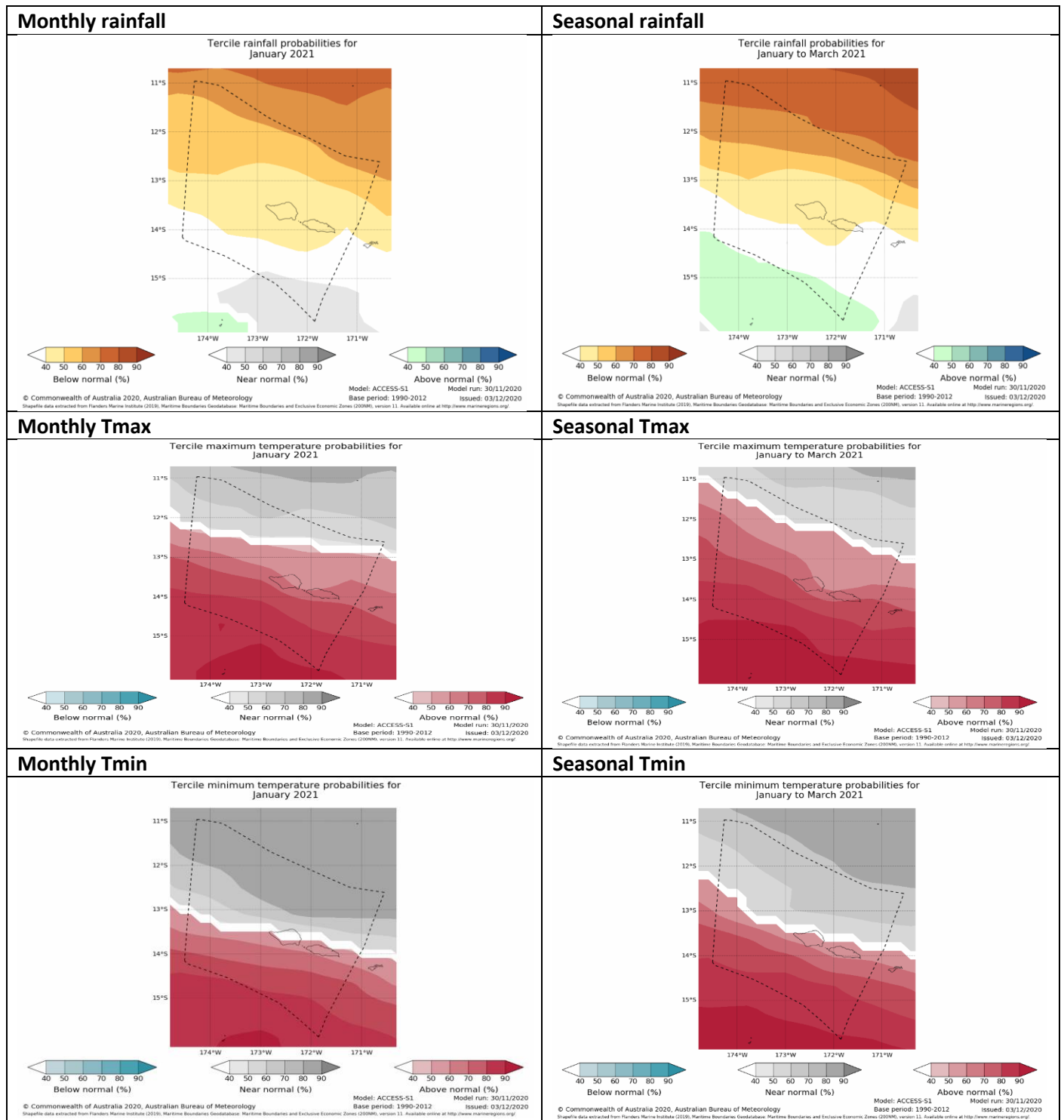
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2021**

Predictor and Period used: NINO3.4 for October to November 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	34	1096.3	66		7	57
Afiamalu (1903-2020)	37	1806.1	63		4	57
Nafanua (1965-2020)	29	1270.2	71		12	59
Faleolo (1956-2020)	42	789.6	58		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)	15	1002.3	37	1253.8	48	11	43
Afiamalu (1903-2020)	19	1565.7	37	2023.2	45	7	40
Nafanua (1965-2020)	7	1090.8	52	1621.5	41	14	48
Faleolo (1956-2020)	25	693.6	35	891.5	40	1	36

**TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for January to March 2021**



## **Summary Statements**

**Rainfall for November 2020:** Normal rainfall was recorded at Apia, Afiamalu and Nafanua, and Faleolo observed above normal.

### **Accumulated rainfall for September to November 2020, including outlook verification:**

All stations received above normal rainfall. Faleolo recorded its sixth wettest September to November in 57 years.

The verification of the outlook issued in August, was near-consistent for Apia, Afiamalu and Nafaua, while Faleolo's outlook was consistent.

### **Outlooks for January to March 2021:**

#### **1. SCOPIIC:**

**Nafanua:** The outlook favours normal rainfall.

**Apia, Afiamalu and Faleolo:** The outlook shows above normal as the most likely outcome, with normal the next most likely. Below normal is the least likely.

#### **2. ACCESS-S:**

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

**Monthly maximum and minimum temperatures:** Above normal is favoured for Samoa in January.

**Seasonal rainfall:** Below normal is the most likely outcome for the period **January to March**.

**Seasonal maximum and minimum temperatures:** The outlook favours above normal for the January to March 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**

<b>Product</b>	<b>Date: November 2020</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Agro Met Bulletin	7th December	MAF, FAO, USP and Samoa Met	12	4	8
Media Workshop – All Products	3rd / 4th December	Media Outlets	30	20	10
		<b>Total</b>	<b>42</b>	<b>24</b>	<b>18</b>