

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

**Country: Papua New Guinea**

**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)				
Momase Region							
Madang (1944-2020)	329.6	209.4	492.0	309.7	399.5	340.4	65/71
Nadzab (1973-2020)	186.4	169.6	288.8	142.1	202.7	160.7	43/45
Wewak (1956-2020)	239.4	66.2	138.8	130.7	183.2	155.8	27/64
Vanimo (1918-2020)	209.6	140.8		215.7	361.0	279.2	
Highlands Region							
Goroka (1948-2020)	288.8	256.8	416.0	208.0	279.4	239.0	56/58
New Guinea Islands Region							
Momote (1949-2020)	306.0	213.2	274.4	275.0	337.9	305.9	21/64
Kavieng (1916-2020)	228.2	189.6	370.0	281.4	374.9	334.4	59/87
Southern Region							
Misima (1917-2020)	298.8	197.0	353.4	215.0	320.0	253.8	70/95
Port Moresby (1875-2020)	199.4	79.0	332.0	160.0	275.6	211.4	118/132

**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	
Momase Region											
Madang (1944-2020)	1031.0	Normal	901.2	1083.5	975.8	41/71	20	40	40	9	Near-consistent
Nadzab (1973-2020)	644.8	Above normal	435.3	525.8	470.9	38/45	23	38	39	7	Consistent
Wewak (1956-2020)	444.4	Normal	367.8	454.4	427.9	38/64	40	33	27	4	Near-consistent
Vanimo (1918-2020)			767.8	944.1	878.7		30	30	40	2	
Highlands Region											
Goroka (1948-2020)	961.6	Above normal	643.0	781.0	709.5	48/54	25	30	45	8	Consistent
New Guinea Islands Region											
Momote (1949-2020)	793.6	Normal	764.8	923.6	811.3	26/64	31	30	39	2	Near-consistent
Kavieng (1917-2020)	787.8	Below normal	852.9	993.5	927.5	25/84	26	37	37	3	Near-consistent
Southern Region											
Misima (1917-2020)	849.2	Normal	688.8	916.9	783.3	55/91	42	35	23	9	Near-consistent
Port Moresby (1875-2020)	610.4	Normal	536.0	680.6	601.4	78/132	39	32	29	2	Near-consistent

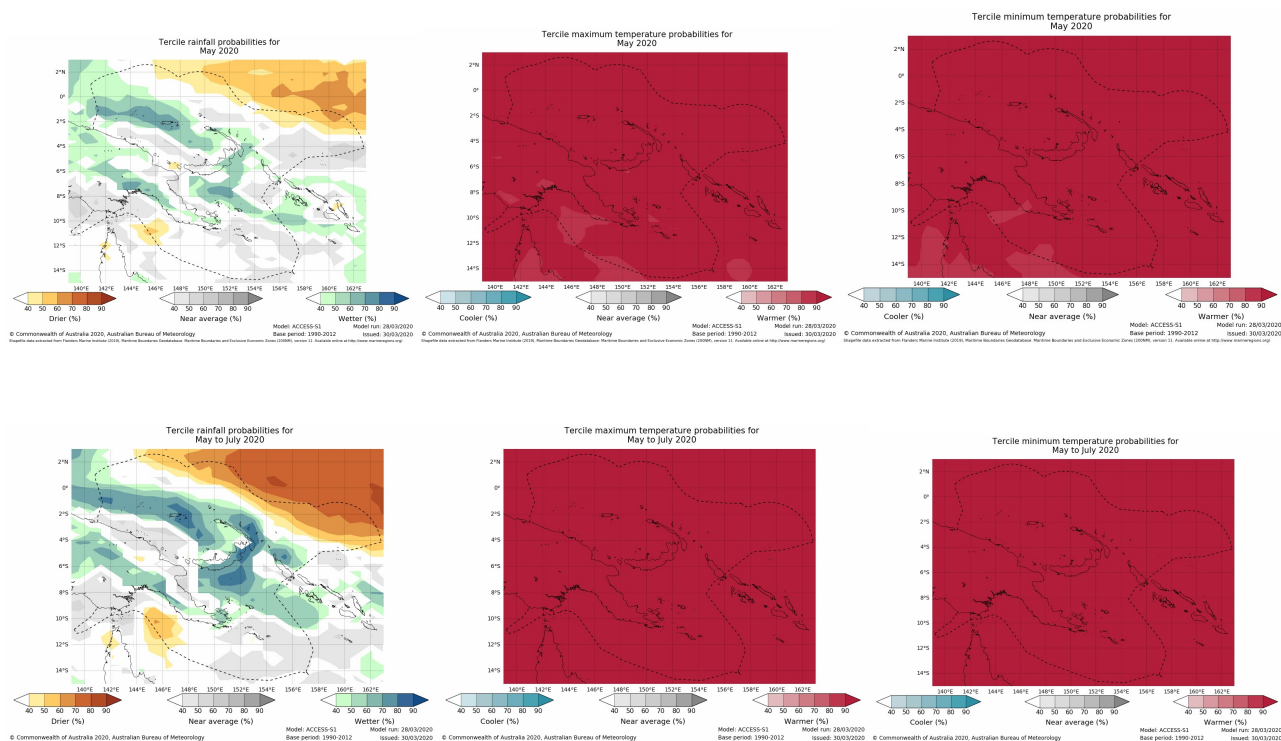
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2020**

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]
<b>Momase Region</b>						
Madang (1944-2020)	<b>66</b>	744.2	34		19	74
Nadzab(1973-2020)	<b>53</b>	310.1	47		-1	61
Wewak (1956-2020)	<b>59</b>	630.0	41		8	59
Vanimo (1918-2020)	49	607.4	<b>51</b>		-2	37
<b>Highlands Region</b>						
Goroka (1948-2020)	<b>59</b>	239.5	41		4	56
<b>New Guinea Islands Region</b>						
Momote (1949-2020)	47	907.3	<b>53</b>		-1	52
Kavieng (1916-2020)	48	725.2	<b>52</b>		-1	55
<b>Southern Region</b>						
Misima (1917-2020)	<b>78</b>	558.4	22		40	76
Port Moresby (1875-2020)	<b>60</b>	119.3	40		7	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]
<b>Momase Region</b>							
Madang (1944-2020)	<b>47</b>	630.9	35	816.7	18	22	57
Nadzab (1973-2020)	32	274.3	<b>34</b>	372.9	<b>34</b>	-3	21
Wewak (1956-2020)	<b>40</b>	554.6	34	694.6	26	6	50
Vanimo (1918-2020)	34	575.0	31	685.5	<b>35</b>	-2	24
<b>Highlands Region</b>							
Goroka (1948-2020)	<b>42</b>	206.7	33	271.5	25	5	40
<b>New Guinea Islands Region</b>							
Momote (1949-2020)	28	798.1	<b>37</b>	1040.0	35	0	33
Kavieng (1916-2020)	35	639.8	26	787.2	<b>39</b>	0	47
<b>Southern Region</b>							
Misima (1917-2020)	<b>47</b>	470.2	44	706.0	9	31	49
Port Moresby (1875-2020)	<b>39</b>	86.9	32	156.2	29	2	37

# Monthly and Seasonal Climate Outlooks using ACCESS-S for May to July 2020



## Summary Statements

### Rainfall for March 2020:

Rainfall was above normal at most of the monitoring stations, with normal rainfall at Wewak and Kavieng, and below normal rainfall at Momote. Nadzab had its 3<sup>rd</sup> wettest March in 45 years while Goroka recorded its 3<sup>rd</sup> wettest March in 58 years of record.

Vanimo rainfall was not available.

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

Rainfall was generally normal to above normal for the past season, apart from Kavieng where rainfall was below normal. The outlook issued in December was consistent at Nadzab and Goroka, and near-consistent at the remaining locations.

Three month total was not available for Vanimo.

### Outlooks for May to July 2020:

#### 1. SCOPIC:

**Madang, Wewak, Goroka and Misima:** The outlook shows below normal rainfall as the most likely outcome with normal the next most likely. Above normal is the least likely.

**Kavieng:** Above normal is the most likely outcome, with below normal the next most likely; normal is the least likely.

**All other stations:** The outlook offers little guidance as the chances of above normal, normal and below normal are similar (Climatology).

Confidence ranges from very low to very high.

## 2. ACCESS-S:

### Monthly rainfall:

**Momase region:** The outlook offers little guidance, as chances of wetter, near average and drier than average are similar.

**Highlands region:** Wetter than average is the most likely outcome

**New Guinea Islands region:** Wetter than average is favoured for Manus, with near average for the other islands.

**Southern region:** Near average to above average is favoured for the next month

### Monthly maximum temperature:

Above average maximum temperature is favoured for the whole country

### Monthly minimum temperature:

Above average minimum temperature is favoured for the whole country

### Seasonal rainfall:

**Momase region:** The outlook offers little guidance as chances of above normal, and below normal are similar.

**Highlands region:** Wetter than average is the most likely outcome

**New Guinea Islands region:** Wetter than average is favoured for most parts of the region except for Kimbe, Hoskins and Rabaul (Climatology)

**Southern region:** Near average rainfall is favoured for the region, except for Gulf Province and D'Entrecasteaux Islands of Milne Bay Province where above rainfall is favoured.

### Seasonal maximum and minimum temperature:

Above average temperatures are favoured for the whole country.

**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: 5Stakeholder 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	Nil				
EAR Watch	March 17	Govt: National Disaster Centre, Dept. of Transport, National Agriculture Research Institute, Dept. Of Agriculture and Livestock, Provincial Disaster Coordinators, Civil Aviation Safety Authority, Climate Change Development Authority, Dept. Of Mineral Policy and Geohazard Managment, PNG DFAT, Centre of Environmental Protection Authority, National Capital District Commision, Dept. of Education. UN Agencies : UNDP, FAO, IOM, Oxfam. NGOs : Childfund, WVI, PNGRC. Private: Pacific Hydo Services, PNG Power, Ok Tedi Mining Ltd, Media. Aus DFATand Universities	115	80	35
Monthly Climate Briefing					
Ocean Bulletin					
<b>Total</b>			115	80	35