

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 190

Country: Papua New Guinea

Part 1: Recent climate

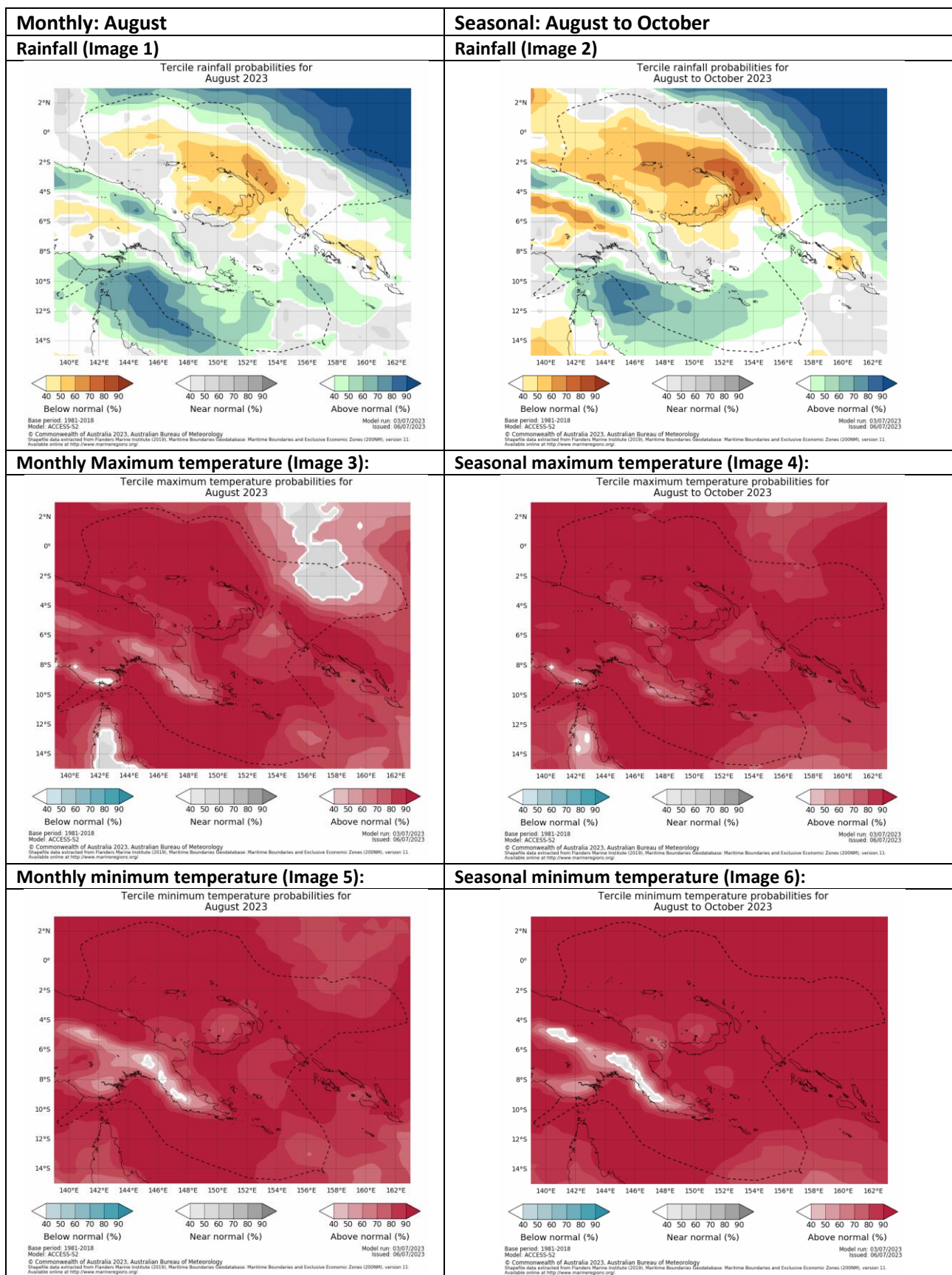
TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2023	May-2023	Jun-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Momase Region							
Madang (1944-2023)				158.4	226.3	205.9	
Nadzab (1973-2023)	67.0	129.0	68.8	64.7	122.0	83.8	18/49
Wewak (1956-2023)	135.2	241.6	131.0	174.0	229.0	204.4	10/68
Vanimo (1918-2023)	237.0	167.6	95.2	172.0	246.6	206.6	7/69
Highlands Region							
Goroka (1948-2023)	213.0	187.0	61.2	45.0	78.4	59.0	32/60
New Guinea Islands Region							
Momote (1949-2023)				222.8	315.3	277.3	
Kavieng (1916-2023)	453.0		293.8	192.0	267.1	212.4	68/94
Southern Region							
Misima (1917-2023)				117.1	243.4	165.0	
Port Moresby (1875-2023)	247.0	354.8	16.2	10.9	44.3	25.9	51/125

TABLE 2: Three-month Total Rainfall for April to June 2023

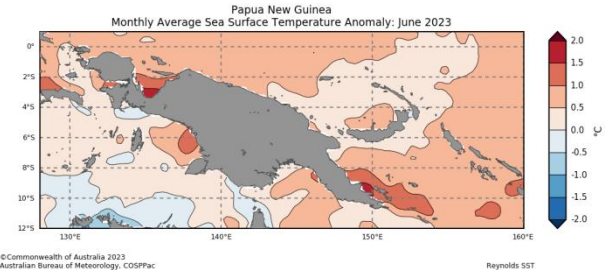
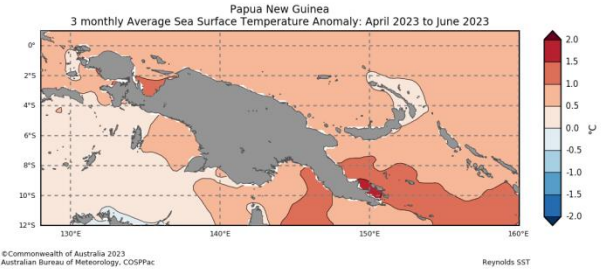
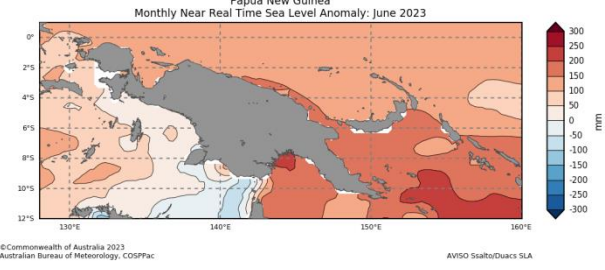
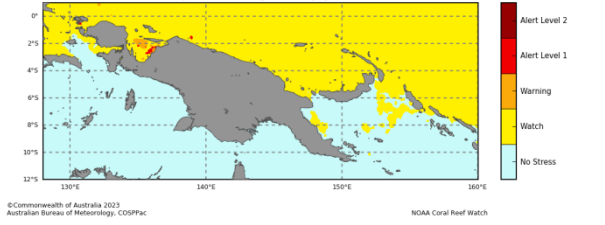
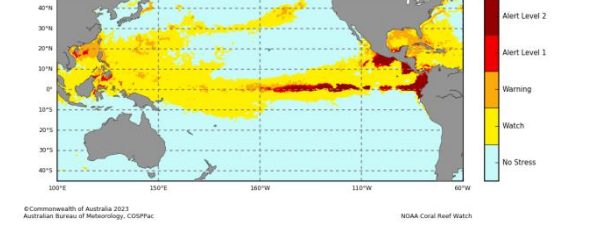
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2023)			904.9	1073.7	1007.2	
Nadzab (1973-2023)	264.8	Below normal	271.8	346.7	324.6	12/46
Wewak (1894-2023)	507.8	Below normal	562.5	671.4	641.6	16/66
Vanimo (1918-2023)	499.8	Below normal	584.0	739.8	652.9	11/65
Highlands Region						
Goroka (1948-2023)	461.2	Above normal	332.1	420.8	382.1	48/57
New Guinea Islands Region						
Momote (1949-2023)			703.0	895.0	805.1	
Kavieng (1917-2023)			688.9	884.5	777.3	
Southern Region						
Misima (1917-2023)			602.7	883.3	741.6	
Port Moresby (1875-2023)	618.0	Above normal	195.6	296.8	250.1	116/118

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2023

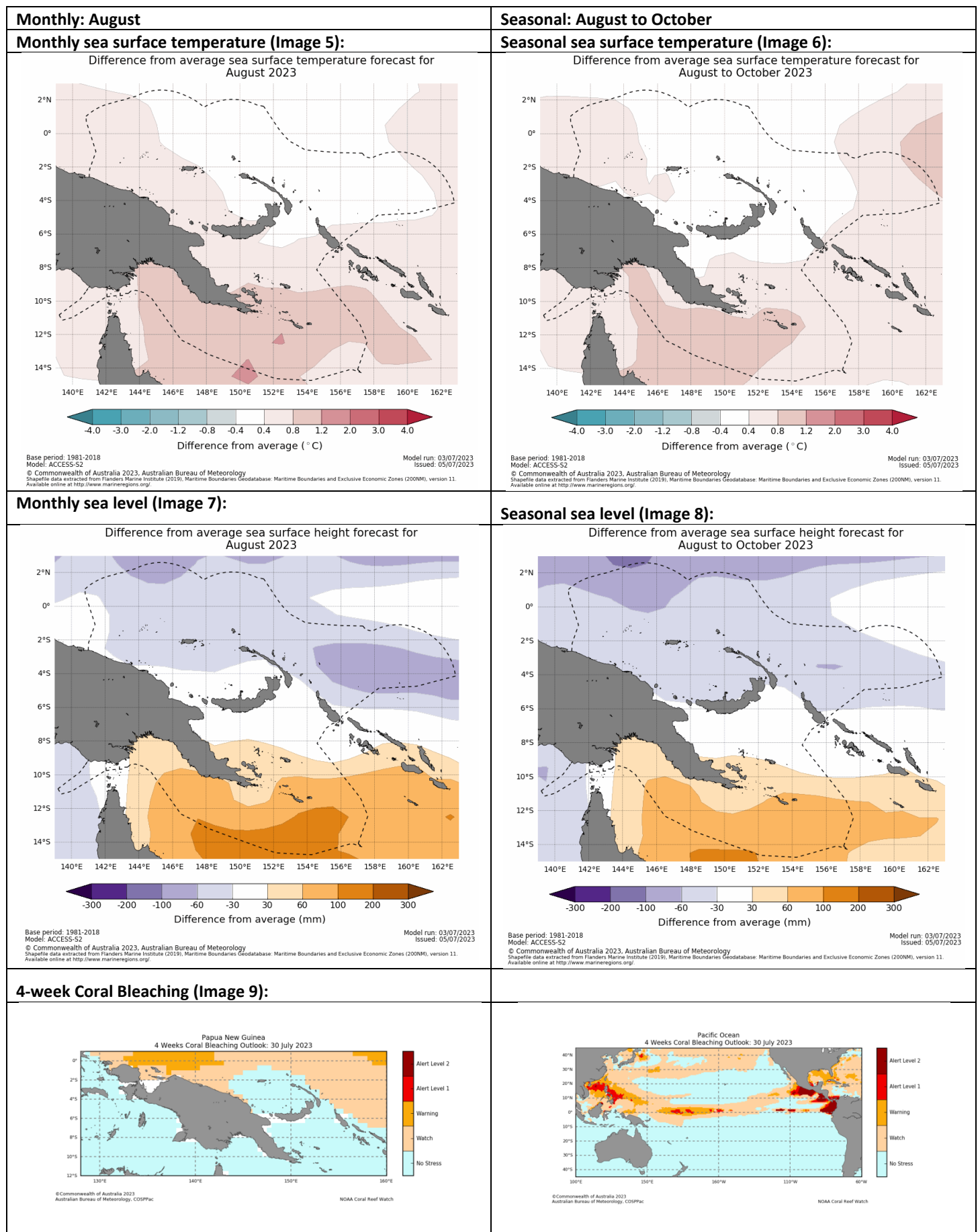


Part 2: Recent Ocean Observation

Monthly/Three months: April and April to June 2023

Monthly: June	Last three months: April to June 2023:
<p>Sea Surface Temperature (Image 1):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2023



Summary Statement

Monthly and last three months: June 2023/April to June 2023 statement

Rainfall for June was below normal at Wewak and Vanimo, above normal at Kavieng, and normal at Nadzab, Goroka, and Port Moresby.

June rainfall was not available for Madang, Momote, and Misima.

Rainfall for April to June was below normal Nadzab, Wewak, and Vanimo and above normal at Goroka and Port Moresby. Port Moresby received their third wettest April to June on record.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August is likely to be below normal over the New Guinea Island and the Highlands region. Above normal is likely over the Momase region, parts Milne Bay and its Islands and southern part of Western region.

The rainfall for August to September is very likely to be below normal for the Islands region, the Highlands region and parts of Western region. Above normal rainfall is likely over the Momase region and Milne Bay Islands.

Maximum temperatures during August and averaged over August to October are likely to be above normal over PNG. Patches of near-normal over the southern part of Western region.

Minimum temperatures during August and averaged over August to October are likely to be near-normal over parts of the Highlands, Gulf and Central while above normal is very likely for the rest of PNG.

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2023/April to June 2023

June ocean temperatures around PNG were 0.5 to 1.5 °C above normal.

Averaged over April to June, ocean temperatures around PNG were 0.5 to 1.5 °C above normal.

June sea levels around PNG were 50mm to 200mm above normal.

PNG has a 'No Stress to Watch' coral bleaching status over the waters of PNG.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2023

Ocean Variable statement

August ocean temperatures around PNG are predicted to be 0.4 to 1.2 °C above normal.

Averaged over August to October, ocean temperatures around PNG are predicted to be 0.4 to 0.8 °C above normal.

Averaged over August and August to October, sea levels around PNG are predicted to be 30mm to 100mm below normal and 30mm to 60mm above normal.

The four-week coral bleaching outlook to 30 July shows PNG has a 'No Stress to Watch' status over PNG waters.

TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: June 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Seasonal Climate Outlook	27 th	Govt: National Disaster Centre, Dept. of Agriculture and Livestock, Climate Change Development Authority, National Agriculture Research Institute, Dept. of Transport, Dept. Of Mineral Policy and Geohazard Management, Dept. of Works, PNG Fire, National Maritime Safety Authority, Civil Aviation Safety Authority, PNG Forest Authority, National Capital District Commission, PNG Customs Authority, National Dept. Of Health, Dept. of Education, Centre for Environmental Protection Authority, Water PNG. UN agencies: UNDP, IOM, UNOCH. Private: PNG Air Services Limited, ExxonMobil, Ok Tedi Mining Ltd, PNG Power Ltd, Global Construction Ltd, Datec, Interoil, Air Niugini, Bank South Pacific, Kina Bank, SMEC, PNG Ports, Media and Universities.	222	172	50	
Monthly Drought Update	22nd	Govt: National Disaster Centre, Dept. of Agriculture and Livestock, Climate Change Development Authority, National Agriculture Research Institute, Dept. of Transport, Dept. Of Mineral Policy and Geohazard Management, Dept. of Works, PNG Fire, National Maritime Safety Authority, Civil Aviation Safety Authority, PNG Forest	214	163	51	

		Authority, National Capital District Commission, PNG Customs Authority, National Dept. Of Health, Dept. of Education, Centre for Environmental Protection 120 75 45 Authority, Water PNG. UN agencies: UNDP, IOM, UNOCH. Private: PNG Air Services Limited, ExxonMobil, Ok Tedi Mining Ltd, PNG Power Ltd, Global Construction Ltd, Datec, InterOil, Air Niugini, Bank South Pacific, Kina Bank, SMEC, PNG Ports, Media and Universities				
Monthly OTML Climate Briefing	9th	Ok Tedi Mine Limited, PNGNWS, BOM	14	11	3	
Climate data request		TWN Group, Lapwing Construction Ltd, University of Goroka, PNGNWS, Veady Koita Associates	9	8	1	
Total			459	354	105	