

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 186

Country: PNG

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2022	Jan-2023	Feb-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
	Momase Region						
Madang (1944-2022)				232.2	335.0	268.7	
Nadzab (1973-2023)	108.8	45.6		110.7	187.4	158.6	
Wewak (1956-2023)	78.6	116.2	255.0	104.0	143.5	119.7	65/67
Vanimo (1918-2023)	241.8	186.6	367.8	211.3	319.2	281.8	58/69
Highlands Region							
Goroka (1948-2023)	241.0		255.0	187.9	266.5	228.0	30/61
New Guinea Islands Region							
Momote (1949-2023)	407.6	163.0	430.0	206.7	292.5	231.0	70/72
Kavieng (1916-2023)	313.8	238.8	301.1	225.9	305.0	261.0	59/92
Southern Region							
Misima (1917-2022)				197.0	331.0	260.0	
Port Moresby (1875-2023)	281.3	204.2	188.2	123.0	220.0	165.4	81/135

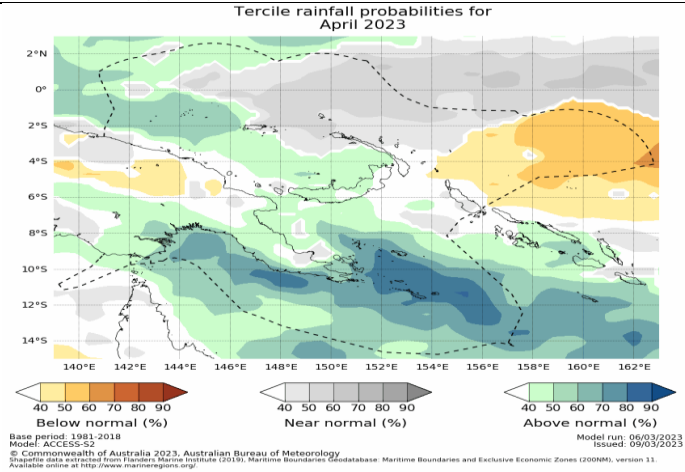
TABLE 2: Three-month Total Rainfall for December 2022 to February 2023

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2023)			926.0	1110.2	1019.0	
Nadzab (1973-2023)			444.0	527.6	493.0	
Wewak (1894-2023)	449.8	Normal	365.3	466.1	418.4	40/66
Vanimo (1918-2023)	796.2	Normal	739.4	934.6	817.1	29/63
Highlands Region						
Goroka (1948-2023)			634.4	743.0	695.8	
New Guinea Islands Region						
Momote (1949-2023)	1000.6	Above normal	758.3	867.4	800.5	62/72
Kavieng (1917-2023)	853.7	Normal	830.3	970.5	884.6	36/88
Southern Region						
Misima (1917-2023)			657.3	876.9	759.2	
Port Moresby (1875-2023)	673.7	Above normal	437.2	596.7	496.0	113/131

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

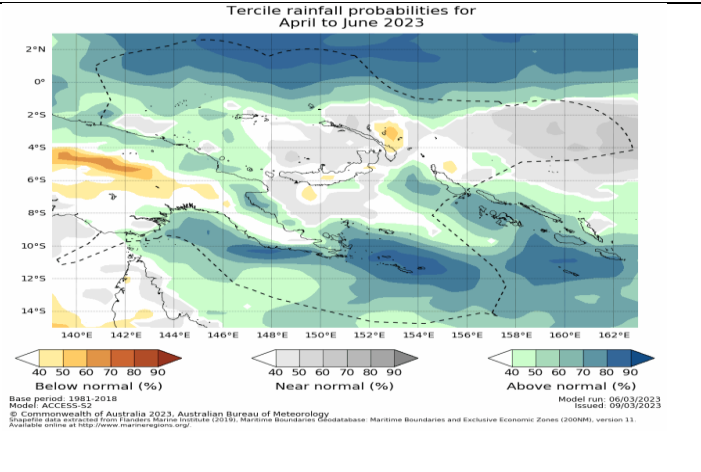
Monthly: April

Rainfall (Image 1)

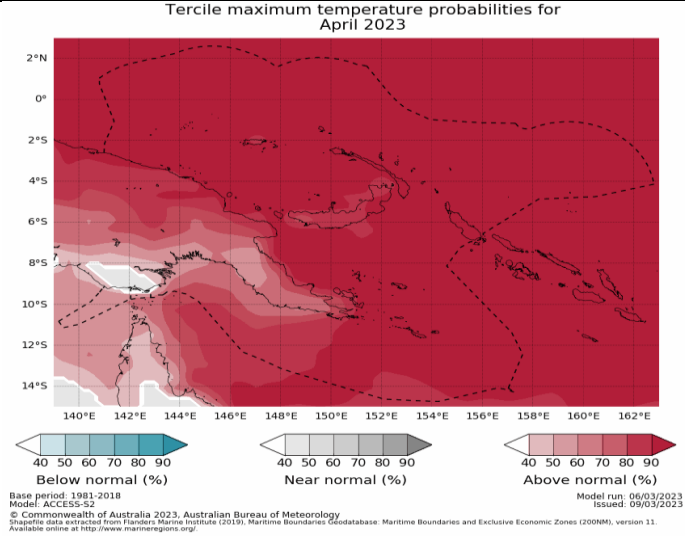


Seasonal: April to June

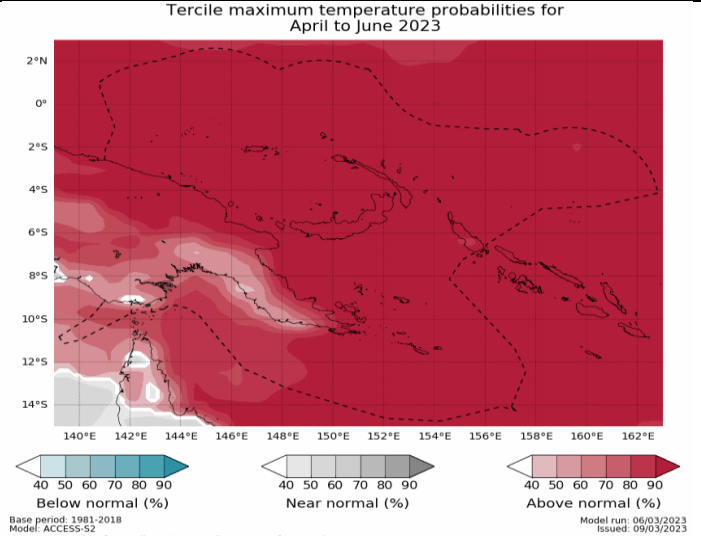
Rainfall (Image 2)



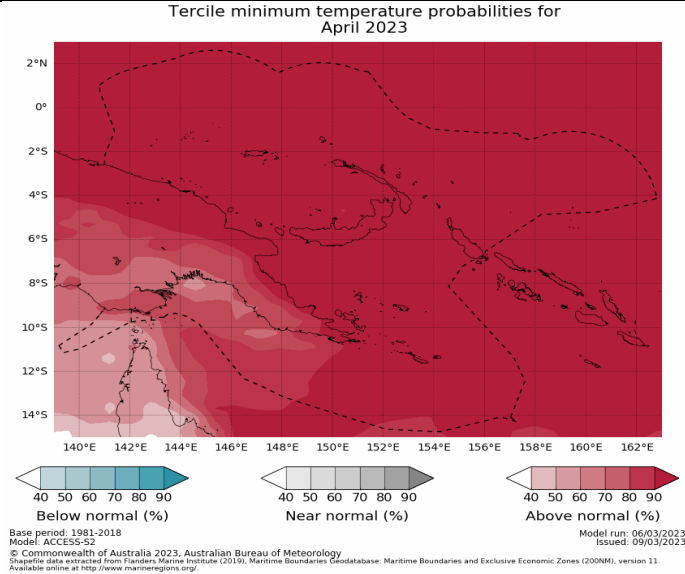
Monthly Maximum temperature (Image 3):



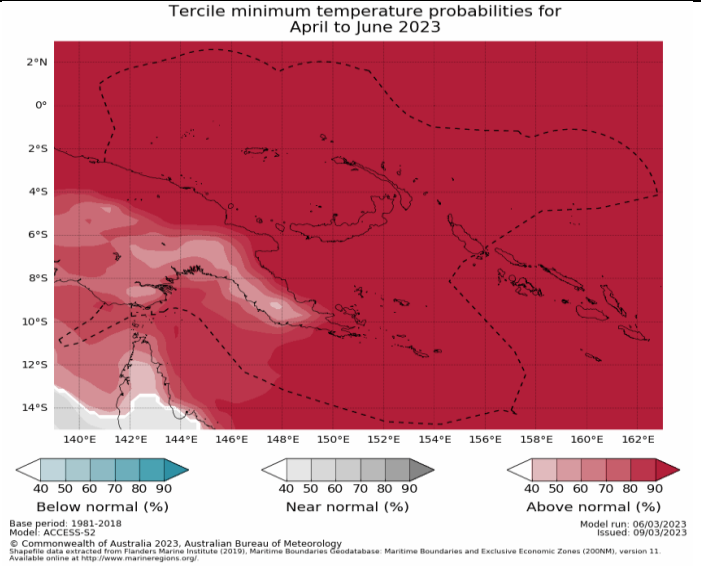
Seasonal maximum temperature (Image 4):



Monthly minimum temperature (Image 5):

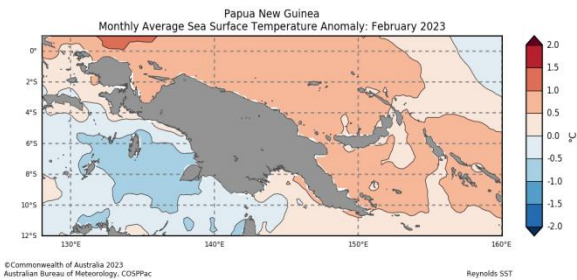
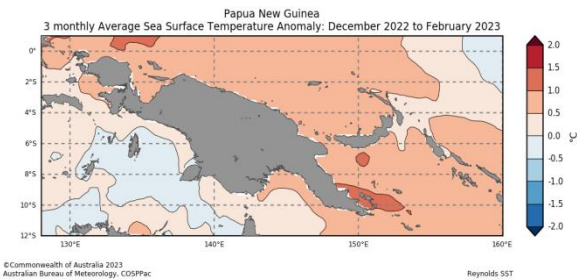
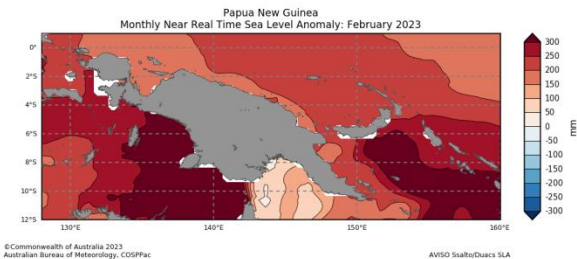
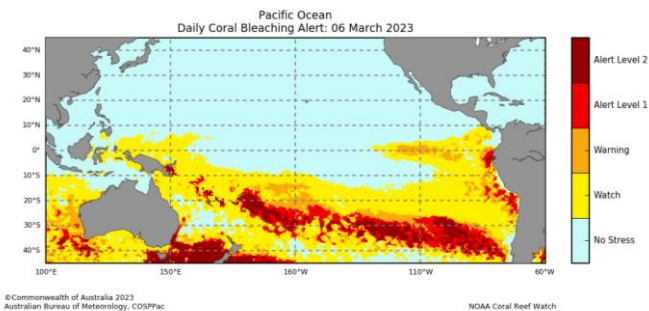
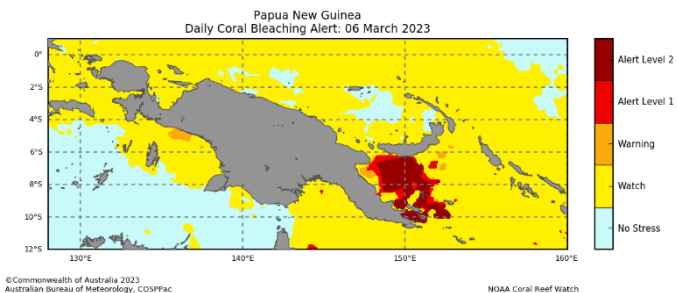


Seasonal minimum temperature (Image 6):

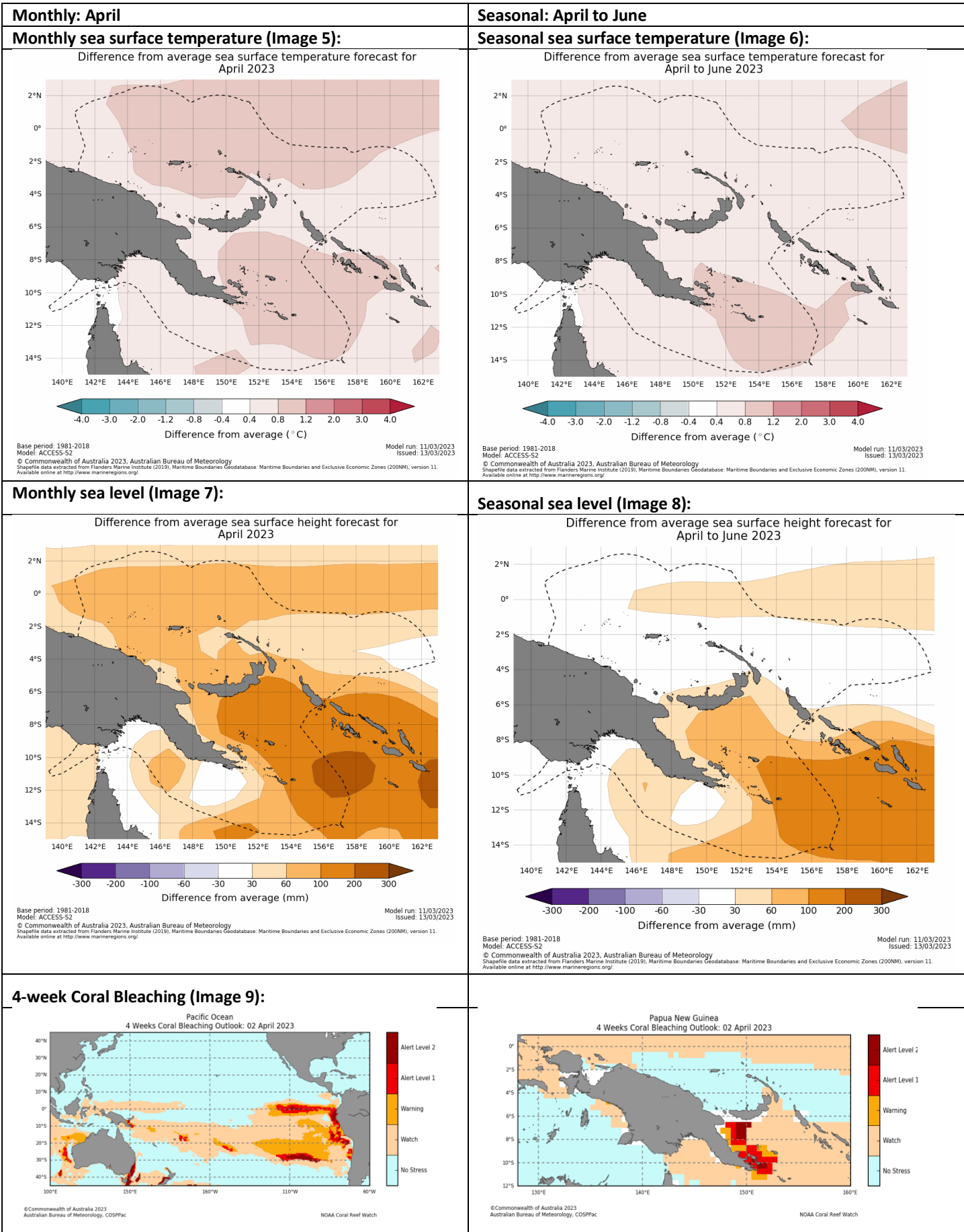


Part 2: Recent Ocean Observation

Monthly/Three months: February 2023 and December 2022 to February 2023

<u>Monthly: February</u>	<u>Last three months: December 2022 to February 2023:</u>
Sea Surface Temperature (Image 1):	Sea Surface Temperature (Image 4):
	
Sea level (Image 2):	
	
Daily coral bleaching alert (Image 3):	
	

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2023



Summary Statement

Monthly and last three months: February 2023/December 2022 to February 2023 statement

February rainfall was above normal for Wewak, Vanimo and Momote, whilst Port Moresby, Goroka and Kavieng posted near-normal totals.

It was the third wettest February on record at both Wewak (67 years of record) and Momote (72 years of record).

February rainfall was not available for Nadzab, Misima and Madang.

Rainfall for December to February was near-normal in Wewak, Vanimo and Kavieng, whilst above normal in Port Moresby and Momote.

December to February rainfall totals were not available for Goroka, Nadzab, Misima and Madang.

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for April is likely to be below normal to near-normal over Vanimo, Wewak, Bougainville, New Ireland, Enga, Western Highlands, Goroka, and Chimbu. In Southern Region, Hela, Southern Highlands, East and West New Britain and Momote, shows February's rainfall is likely to be near-normal to above normal.

The rainfall for April to June is likely to be below normal over the Highlands region, and the north of Western Province, . In the MOMASE region, Central, and Milne Bay, April to June rainfall is likely to be above normal. For remaining areas there is mainly little guidance, apart for New Ireland where near-normal rainfall is likely.

Maximum and minimum temperatures during April are likely to be above normal over all parts of PNG.

Maximum and minimum temperatures averaged over April to June are likely to be above normal over all parts of PNG

Part 2: Recent Ocean summary statement

Monthly and last three months: February 2023/December 2022 to February 2023

February ocean temperatures around PNG were 0.5 to 1.0°C above normal.

Averaged over December to February, ocean temperatures around PNG were 0.5 to 1.0°C above normal. In the northern waters of Milne Bay, the ocean temperatures were up to 1.5°C.

February sea levels around PNG were 50mm to over 300mm above normal.

PNG has a 'Alert level 2' coral bleaching status in western Solomon Sea. 'Watch' status for most of PNG.

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2023

Ocean Variable statement

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

Averaged over April to June, ocean temperatures around PNG are predicted to be 0.4 to 1.2°C above normal.

April sea levels around PNG are predicted to be 30mm to 200mm above normal.

Averaged over April to June, sea levels around PNG are predicted to be 30mm to 100mm above normal.

The four-week coral bleaching outlook to 02 April shows PNG has a 'Alert level 2' status for western Solomon Sea.

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

Product	Date: February 2023	Stakeholder	Total Number of Participants	Number of male	Number of female
Ocean Outlook	17th February	NMSA, National Fisheries, UPNG, Central Province Fisheries Division, NGOs, Dept of Transport, FAO, Media	58	41	17
PNG Drought Update	20th February	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	120	75	45
Seasonal Climate Outlook		Govt: National Disaster Centre, Dept. of Agriculture and Livestock, Climate Change Development Authority, National	171	130	41

		<p>Agriculture Research Institute, Dept. of</p> <p>Transport, Dept. Of</p> <p>Mineral Policy and Geohazard</p> <p>Management, Dept. of</p> <p>Works, PNG Fire,</p> <p>National Maritime</p> <p>Safety Authority, Civil</p> <p>Aviation Safety</p> <p>Authority, PNG Forest</p> <p>Authority, National</p> <p>Capital District</p> <p>Commission, PNG</p> <p>Customs Authority,</p> <p>National Dept. Of</p> <p>Health, Dept. of</p> <p>Education, Centre for</p> <p>Environmental</p> <p>Protection Authority,</p> <p>Water PNG. UN</p> <p>agencies: UNDP,</p> <p>IOM, UNOCH.</p> <p>Private: PNG Air</p> <p>Services Limited,</p> <p>ExxonMobil, Ok Tedi</p> <p>Mining Ltd, PNG</p> <p>Power Ltd, Global</p> <p>Construction Ltd,</p> <p>Datec, Interoil, Air</p> <p>Niugini, Bank South</p> <p>Pacific, Kina Bank,</p> <p>SMEC, PNG Ports,</p> <p>Media and</p> <p>Universities.</p>			
Total			349	246	103