# **Seasonal Prediction Project (SPP)**

# Pacific Islands – Ocean and Climate Outlook Forum No. 178 Summary Report

Date: Wednesday 20 July 2022

**Time:** Australian Eastern Standard Time at 11:00AM (01:00 UTC)

**Host: SPREP** 

Chair: Papua New Guinea

Apologies:

## Main purpose for the OCOF:

- To provide a regular forum for the 12 participating PIC NMSs to discuss the current ENSO status, recent one and three-month rainfall, drought (if present), their seasonal climate outlooks and stakeholders engagement with other countries and the COMP (Bureau of Meteorology and SPREP) project team.
- In addition, it serves as an online training forum for recent SCOPIC and ACCESS-S
  development and gives the project team and the NMSs an opportunity to discuss other project
  related matters.

### Agenda:

- 1. Brief introduction of PIC participants, SPREP, SPC and Bureau of Meteorology teams.
- 2. Report on current ENSO status.
- 3. Each NMS report on their past one and three months' rainfall in relation to the current ENSO situation (include ranking and verification), their three-month outlooks and their stakeholders engagement. Wherever appropriate NMS to report on their drought status.
- 4. Round-table discussion: addressing general concerns/queries on outlooks and ACCESS-S
- 5. Feedback on COSPPac products and services.
- 6. Country statements with regards to drought or drought-like conditions, drought module issues/concerns.
- 7. The next OCOF will be held on 18 August and is to be chaired by Palau.

### Participants:

The Forum was attended by 22 climate officers (11 female) from 11 partner PIC NMSs.

Cook Islands: Bates Manea

Fiji: Shweta Shiwangni and Jasneel Chnadra Kiribati: Mwata Keariki and Kamaiti Rubetaake

Niue: Raquel Tanaki

Papua New Guinea: Kasis Inape, Kila Kila, Gabriel Tuno, Nathan Kima, Solace Roy

Palau: Kiku Mochimaru

Republic of Marshall Islands: Samson Kanenko

Samoa: Taumeasina Fomai, Kotoni Faasau, Mattaniah Salesa and Junior Lepale

Solomon Islands: Max Sitai

Tonga: Mele

Tuvalu: Simoea Tiute, Leiti Tausi and Niko Iona

#### Vanuatu:

Australia: Grant Beard, Grant Smith, Elise Chandler, and Simon Mcgree

SPREP: Philip Malsale, Tile Tofaeono and Nanette Woonton

SPC: Judith Giblin

OCOF tables were received from 12 participating countries before the meeting.

## Observations of April to June 2022:

Observed rainfall for the one and three-month periods ending June 2022 were discussed for each PIC. This month, several countries experienced extreme rainfall as shown in the following table:

Station	Period	Rainfall Amount (mm)	Rainfall Rank	Years of record
Vunisea, Fiji	June	27.0	6	86
Ono-I-Lau, Fiji	June	10	2	75
Rotuma, Fiji	Apr-Jun	551.9	10	108
Butaritari, Kiribati	June	115.1	7	85
Tarawa, Kiribati	June	33.0	6	75
Arorae, Kiribati	Apr-Jun	66.2	1	54
Butaritari, Kiribati	Apr-Jun	355.2	5	85
Tarawa, Kiribati	Apr-Jun	72.9	3	75
Koror Airport, Palau	Apr-Jun	1523.3	70	71
Momote, PNG	Apr-Jun	515.6	6	72
Munda, Solomon Islands	Apr-Jun	562.0	5	61
Niuatoputapu, Tonga	Apr-Jun	251.5	5	69
Nanumea, Tuvalu	June	57.9	4	82
Niu, Tuvalu	June	55.3	4	72
Funafuti, Tuvalu	June	93.5	3	90
Niulakita, Tuvalu	June	141.8	5	70
Nanumea, Tuvalu	Apr-Jun	175.9	2	82
Port Vila, Vanuatu	June	286.5	64	69
Whitegrass, Vanuatu	Apr-Jun	600.7	48	51
Aneityum, Vanuatu	Apr-Jun	1045.4	68	70

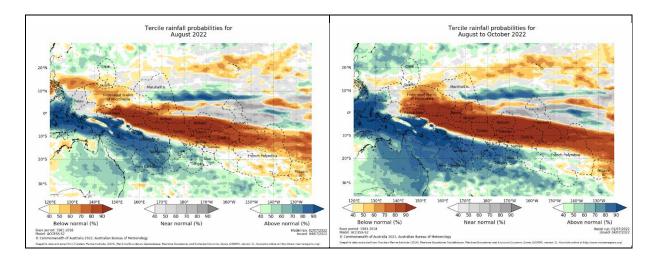
[Note: The above data may not have undergone quality control]

# August to October 2022 Outlooks:

#### ACCESS-S outlooks:

The ACCESS-S for August to October shows a typical La Niña pattern, with a large region where below normal rainfall is very likely stretching from FSM and northern PNG in the west, to French Polynesia and Pitcairn Island in the east. To the southwest of this region, the ACCESS model shows the opposite signal, that is, moderate to high chances for above average rainfall in a band stretching southeast from

Palau across most of PNG, southern Solomon Islands, New Caledonia, Vanuatu, Tonga, Niue, and the southern half of the Cook Islands. Above normal is also strongly favoured for the central RMI.



	41-50%	51-60%	61-70%	71-80%	81-90%	>90%
Below normal						
Near-normal						
Above normal						

The ACCESS-S, Copernicus (C3S) and CLIKP models are compared in the following table. Blank (white) cells indicate the chance is <40% in all categories – so it could be "little guidance" (e.g. 30/36/34), or near-equal in two categories (e.g. 39/37/24).

July to September 2022							
	ACCESS-S	C3S	CLIKP				
Cook Is North							
Cook Is South							
Fiji West							
Fiji Central							
Fiji East							
Fiji North							
Fiji Rotuma							
FSM West							
FSM Central							
FSM East							
Kiribati West							
Kiribati Central							
Kiribati East							
RMI North							
RMI Central							
RMI South							
Nauru							
Niue							
Palau							

PNG Momase		
PNG Is		
PNG South		
PNG Highlands		
_		
Samoa		
Solomon Is West		
Solomon Is Central		
Solomon Is East		
Tonga North		
Tonga Central		
Tonga South		
Tuvalu North		
Tuvalu Central		
Tuvalu South		
Vanuatu North		
Vanuatu South		

# Other matters Discussed:

- OCOF 179 will be hosted by SPREP via zoom on the 18<sup>th</sup> August 2022
- Countries (Samoa, American Samoa, Cook Islands, French Polynesia and Hawaii) experienced coastal inundation due to spring tide
- SCOPIC outlook remove from climate bulletin and from OCOF summary

# **Observed Rainfall**

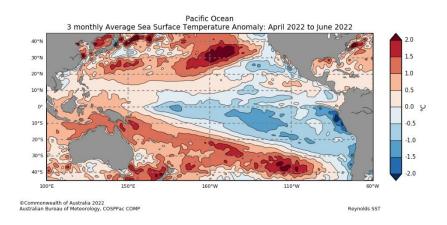
Country	June 2022	April to June 2022
Cook Islands	Normal to above normal rainfall	Normal to above normal rainfall
Fiji	Mostly below normal and normal	Below normal and normal
Kiribati	Mostly below normal	Below normal
RMI	Below normal and normal	Normal and above normal
Niue	Above normal	Normal
Palau	Normal	Above normal
Papua New Guinea	Below normal and normal	Below normal to above normal
Samoa	Below normal and normal	Below normal
Solomon Islands	Below normal to above normal	Below normal to above normal
Tonga	Below normal and normal	Below normal and normal
Tuvalu	Below normal	Below normal

#### **Ocean Conditions**

#### Observations of April to June 2022

Sea surface temperature:

3 monthly SST shows cooler conditions along the central equatorial regions including Nauru, southern Marshall Islands, northern Tuvalu, Kiribati and northern Cook Islands. Near normal conditions observed along 10 degrees North latitude and over northern Marshall Islands, FSM, southern Tuvalu, and central Cook Islands. Warmer than normal conditions persisted in the remainder partner countries with significant SST anomalies southward from Palau to southern Cook Islands.



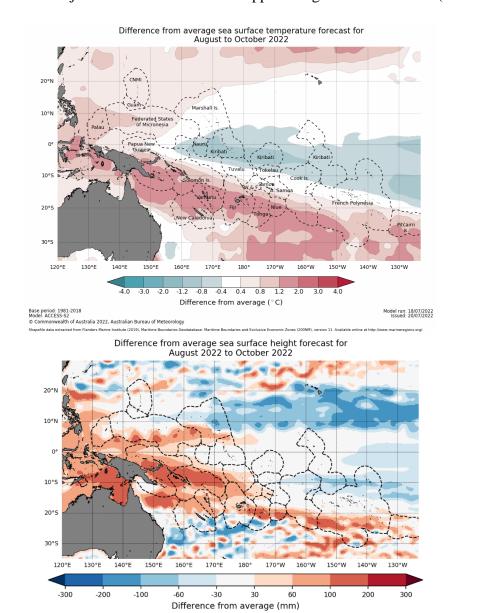
Sea level remained higher than normal for most of the countries from April to June, with significant sea level anomalies located southeast Palau and within the Solomon Sea between PNG and Solomon Islands.

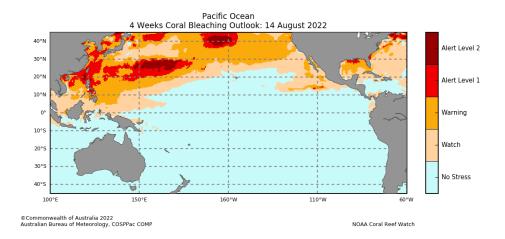
#### August to October 2022 Outlooks:

Sea surface temperature outlook: Equatorial zones east of Nauru is forecasted to have cooler than normal conditions with temperature range of -0.4 to -0.8 °C. Marshall Islands, central Tuvalu, central Cook Islands are favoured to be neutral. A boomerang shape of warm conditions is predicted in the western and remainder of the partner countries. Significant temperatures of 1.2 to 2.0 °C are located southeastward from PNG.

Sea level outlook: Sea level is forecasted to be higher than normal for countries near or in the Western Warm Pool (southern Palau, southern FSM, southern RMI, PNG, Solomon Islands, Vanuatu, Fiji, and Tuvalu), ranging from 30 to 300 mm in the western Pacific, with significant sea level anomalies of 100-300mm in the Bismarck Sea, Solomon Sea and east of Solomon Islands. Pools of below average sea levels is predicted in central and northern RMI, northern Cook Islands and Kiribati (southern Line Islands). Note that this outlook does not include trends of sea level rise.

Coral Bleaching Outlook: 4 weeks coral bleaching outlook indicates 'Alert 1' predicted for parts of PNG, with 'Warning' for Palau and western FSM. 'Watch' status for remainder of FSM, and Solomon Islands. The remaining countries are predicted to experience no thermal stress.





Model: ACCESS-S2 Base Period: 1981-2018 Model Run: 28/06/2022 Issued: 12/07/2022

© Commonwealth of Australia 2022 Bureau of Meteorology

# **Observed Conditions**

SST: sea surface temperature anomaly

SLA: sea level anomaly CB: coral bleaching BN: Below Normal NN: Near Normal AN: Above Normal

Coral Bleaching: (No Stress, Watch, Warning, Alert1, Alert2)

Country	June 2022				
,	SST	SLA	СВ		
Cook Islands	NN, AN	AN	No Stress		
Fiji	AN	AN	No Stress		
Kiribati	BN	AN	No Stress		
Marshall Islands	NN	AN	No Stress		
Niue	AN	AN	No Stress		
Palau	AN	NN, AN	Watch & Warning		
Papua New Guinea	AN	AN	Alert 1-2		
Samoa	AN	AN	No Stress		
Solomon Islands	AN	AN	No Stress & Watch		
Tonga	AN	AN	No Stress		
Tuvalu	NN	AN	No Stress		
Vanuatu	AN	AN AN No Stress & Watch			

# Country Stakeholder Engagement- Evaluations of how effective countries engage with their stakeholders

Country	Date June	Stakeholder	Total Number of Participants	Number of male	Number of female
	2022				
Cook Islands – Climate Bulletin	June	Ministry of Transport	29	17	12
Cook Islands - EAR Watch	June	C.I Govt. Stakeholders Public			
Cook Islands – Monthly Climate briefing	June	Climate Change	8	2	6
Cook Islands- Climate data request	June	MMR (Ministry of Marine Resources)	1		1
Fiji-Climate Summary	07 June	General public	140	106	34
Fiji-EAR Watch	14 June	Humanitarian partners	122	96	26
Fiji-Climate Outlook	30 June	General public	124	93	31
Fiji -Climate Outlook for Monasavu	30 June	Energy Fiji Limited	13	13	-
Fiji-Meteorological Data Request	01-30 June	A range of stakeholders	36	31	5
Kiribati - Climate bulletin	08 June	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Kiribati -Ocean Bulletin	08 June	Government and Non-Government Organisations and public subscribed to the products.	118	45	73
Kiribati- Media release	08 June	National Media and KMS Staffs	53	23	30
Marshall Island – Climate briefing	22 June	RMI National Disaster Management Office (NDMO)	6	4	2
Niue- Climate Bulletin	30 June	Private Sector, Government Officials, Government staff and stakeholder	65	30	35
Palau- EAR Watch	14 June	National Emergency Committee (NEC)     Office of the Vice President     Office of the President     NEMO Coordinator     National Weather Service     Bureau of Budget and Planning	28	19	9

		Bureau of Tourism Bureau of Commercial Development Attorney General's Office Bureau of Youth, Applied Arts and Careers Bureau of Public Health Bureau of Public Work Bureau of Public Safety Palau Community College Bureau of Education Administration Palau Public Utility Corporation Palau Public Utility Corporation Palau National Communication Corporation Bureau of Foreign Affairs& Trade Bureau of Domestic Affairs Bureau of Agriculture Governors Association Palau Red Cross Society Environment Quality Protection Board Bureau of Aviation Division of Property and Supply Palau Chamber of Commerce Palau Visitor's Authority Bureau of Customs & Boarder Protection Koror State Government			
PNG- Climate bulletin	18 June	Govt: National Disaster Centre, Dept. of Agriculture and Livestock, ClimateChange Development Authority,National Agriculture Research Institute, Dept. of Transport, Dept. ofMineral Policy and GeohazardManagement, Dept. of Works, PNGFire, National Maritime SafetyAuthority, Civil Aviation SafetyAuthority, PNG Forest Authority,National Capital District Commission,PNG Customs Authority, NationalDept. Of Health, Dept. of Education,Centre for Environmental Protection Authority. UN agencies: UNDP, IOM, UNOCH. Private: PNG Air ServicesLimited, ExxonMobil, Ok Tedi MiningLtd, PNG Power Ltd, GlobalConstruction Ltd, Datec, Interoil, AirNiugini, Bank South Pacific, PNGPorts, Media and Universities.	108	79	29
PNG – Drought Early Warning Update	15 June	Bom, UNDP, PNGNWS	11	7	4
Samoa – EAR Watch	17 June	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information	65	27	38

		Technology, Disaster Managers, Marines			
Samoa - Ocean Outlook	17 June	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38
Solomon Islands – Climate bulletin	June	Red Cross, NDMO, Ministryof Agriculture, SIBC,Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD, Forestry, Ministry of Health, Solomon Water, MECDM,Live and Learn,Tourism, Maritime Service, People with Disability, MID, Ministry of Fisheries, Sol Tuna Ltd, UN Women, Council of Women, Community Representatives	58	46	12
Solomon Islands – EAR Watch	June	Red Cross, NDMO, Ministryof Agriculture, SIBC,Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD, Forestry, Ministry of Health, Solomon Water, MECDM,Live and Learn,Tourism, Maritime Service, People with Disability, MID, Ministry of Fisheries, UN Women, Council of Women.	53	39	14
Solomon Islands - Ocean Bulletin	June	Red Cross, NDMO, Ministryof Agriculture, SIBC,Hydrology, Solomon star, Paoa FM, World Vision, Glodridge Mining, Ministry of Mines and Energy, MEHRD.	14	9	5
Tonga – Climate Bulletin	03 June	Government ministries, NGOs, Media, Private sectors	155	118	37
Tonga – Ocean Bulletin	03 June	Government ministries, NGOs, Media, Private sectors	155	118	37
Tuvalu-Climate	June	Met staffs,	22	17	5
Bulletin		Disaster Members	7	4	3
		All civil servants			
		All kaupule members			
Tuvalu -EAR	June	Met staffs,	22	17	5
Watch		Disaster Members	7	4	3
		All civil servants			
		All kaupule members			
Tuvalu -Monthly	June	Met staffs,	22	17	5
Climate briefing		Disaster Members	7	4	3
		All civil servants			
		All kaupule members			

Outlook  Disaster Members All civil servants All kaupule members All kaupule members All kaupule members All kaupule members Tuvalu-Climate data request  Vanuatu- climate sectoral bulletin  Vanuatu- climate sectoral bulletin  Vanuatu- Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Cosu, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center)  Vanuatu – Ocean Outlook  Vanuatu – Ocean Outloo	Tuvalu -Ocean	June	Met staffs,	22	17	5
All civil servants All kaupule members Taiwan Mission 1 1 1 Annuatu-Climate data request Vanuatu- climate sectoral bulletin 15 June Vanuatu- Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UNI-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center) Vanuatu Foreit Staffs, CSU Staffs, USP Staffs (Fiji) and NDMO Samma nel Sola Office Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, CSU, Vanuatu Care International, Save the Children Vanuatu, UnDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Care International, Save the Children Vanuatu, World Health Organization, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu World Health Organization, Vanuatu Meteorology & Geo-Hazard		ound	Disaster Members	7	4	3
Tuvalu-Climate data request  Vanuatu- climate sectoral bulletin  15 June  VingD-Van-KIRAP Staffs, Oxfam Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafac College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu-Monthly Climate briefing  15 June  Vanuatu-Monthly Climate briefing  15 June Vanuatu — Ocean Outlook  16 June Vanuatu — Ocean Outlook  16 June Vanuatu — Ocean Outlook  17 June Vanuatu — Ocean Outlook  18 June Vanuatu — Ocean Outlook  18 June Vanuatu — Ocean Outlook  19 June Vanuatu — Ocean Outlook  10 June Vanuatu — Ocean Outlook  11 June Vanuatu — Ocean Outlook  12 June Vanuatu — Ocean Outlook  13 June Vanuatu — Ocean Outlook  14 June Vanuatu — Ocean Outlook  15 June Vanuatu — Ocean Outlook  16 June Vanuatu — Ocean Outlook  17 June Vanuatu — Ocean Outlook  18 June Vanuatu — Ocean Outlook  19 June Vanuatu — Ocean Outlook  10 June Vanuatu — Ocean Outlook Vanuatu — Ocean Outlook Vanuatu — Ocean Outlook Vanuatu — Ocea						
Tuvalu-Climate data request  Vanuatu- climate sectoral bulletin  15 June  VingD-Van-KIRAP Staffs, Oxfam Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unleto Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center)  Vanuatu – Ocean Outlook  Vanuatu – Ocean Outlook  16 June  Vanuatu – Ocean Outlook						
Vanuatu - Cocan Outlook   Vanuatu - Ocean	Tuyalu-Climate	luno		1	1	
Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, WMGD Call-Center)  Vanuatu-Monthly Climate briefing  Vanuatu-Monthly Climate briefing  Vanuatu-Ocean Other Staffs, Malampa Live & Learn Staffs, CSU Staffs, USP Staffs (Fiji) and NDMO Sanma and Sola Office  Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Acore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNIVP, Shefa Education, Live & Learn, UN-Women, Vanuatu Consultants, Vanuatu Saciety of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).		Julie				
Vanuatu-Monthly Climate briefing  15 June  Community Climate Centres (Sola, Sanma, Penama), VMGD Staffs, Van-KIRAP Staffs, Malampa Live & Learn Staffs, CSU Staffs, USP Staffs (Fiji) and NDMO Sanma and Sola Office  Vanuatu – Ocean Outlook  16 June  17 June  18 June  19 June  19 June  10 June		15 June	Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public	206	104	102
Climate briefing  Sanma, Penama), VMGD Staffs, Van- KIRAP Staffs, Malampa Live & Learn Staffs, CSU Staffs, USP Staffs (Fiji) and NDMO Sanma and Sola Office  Vanuatu – Ocean Outlook  16 June  VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).		15 June	,			
Vanuatu – Ocean Outlook  Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public (Website and VMGD Call-Center).			KIRAP Staffs, Malampa Live & Learn Staffs, CSU Staffs, USP Staffs (Fiji) and NDMO Sanma and Sola Office			
Total 2.074 1.287 1.678		16 June	Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), General Public	206	104	102
			Total	2,074	1,287	1,678

Note: The stakeholder data above may not total up due to lack of data from NMS or no participation