

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 209

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2024	Dec-2024	Jan-2025				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror (1951-2025)	209.3	531.6	196.3	185.2	319.3	234.4	26/74

TABLE 2: Three-month Total Rainfall for November 2024 to January 2025

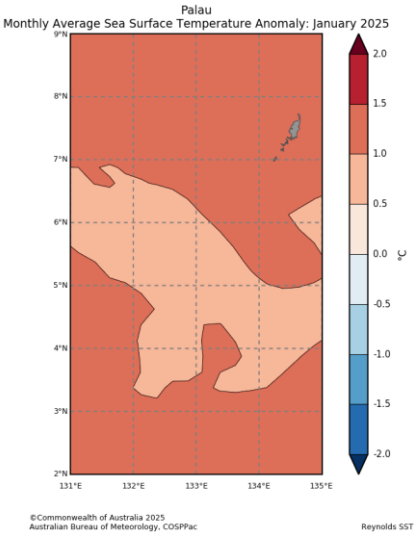
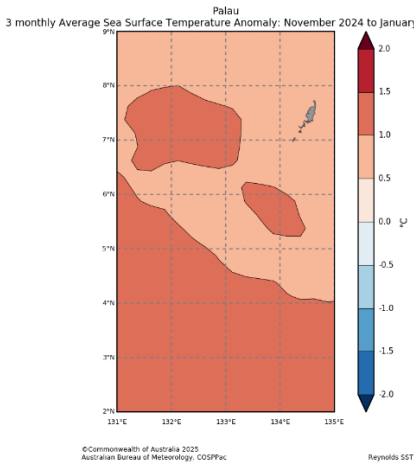
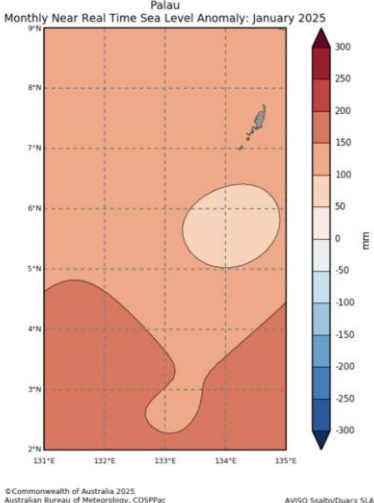
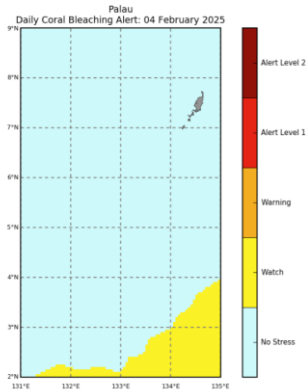
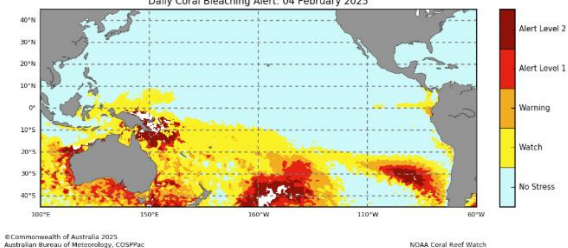
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror (1951-2025)	937.2	Normal	783.9	960.6	861.6	47/74

# Part 1i. Monthly and Seasonal Outlooks for March and March to May 2025

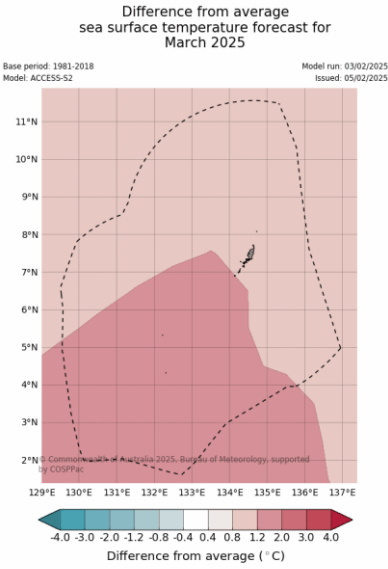
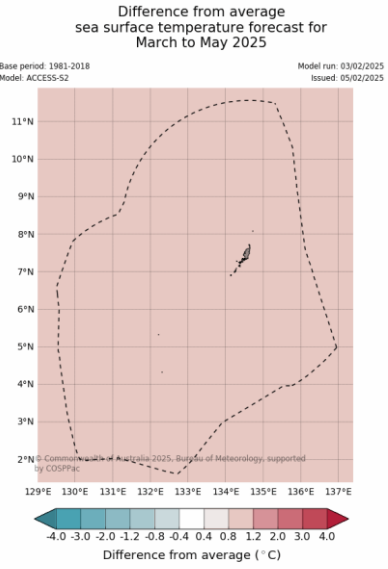
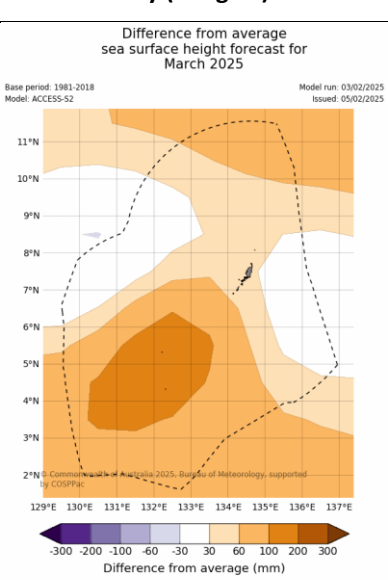
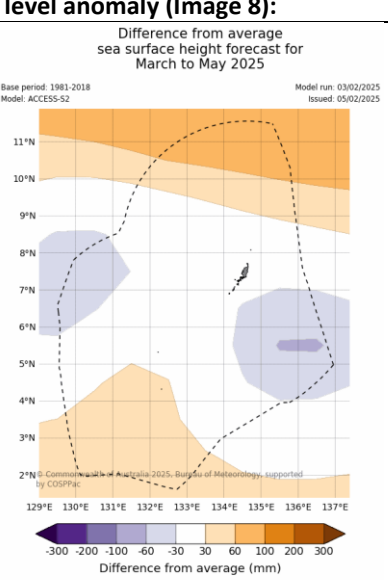
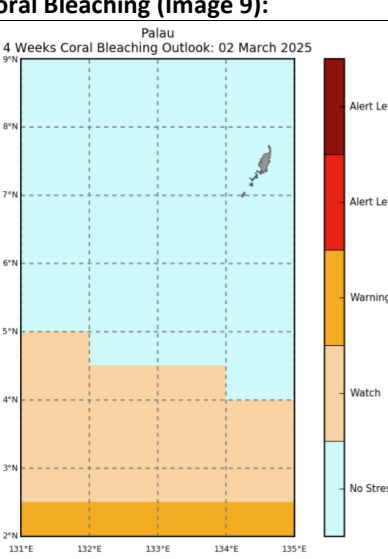
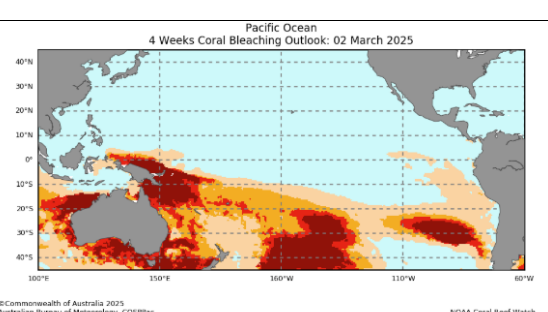
Monthly: March	Seasonal: March to May
<p><b>Rainfall (Image 1)</b></p> <p>Tercile rainfall probabilities for March 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p><b>Rainfall (Image 2)</b></p> <p>Tercile rainfall probabilities for March to May 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p><b>Monthly Maximum temperature (Image 3):</b></p> <p>Tercile maximum temperature probabilities for March 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p><b>Seasonal maximum temperature (Image 4):</b></p> <p>Tercile maximum temperature probabilities for March to May 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p><b>Monthly minimum temperature (Image 5):</b></p> <p>Tercile maximum temperature probabilities for March 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p><b>Seasonal minimum temperature (Image 6):</b></p> <p>Tercile maximum temperature probabilities for March to May 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>8°N 7°N 6°N 5°N 4°N 3°N</p> <p>131°E 132°E 133°E 134°E 135°E</p> <p>Below normal (%) Near normal (%) Above normal (%)</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>

# Part 2: Recent Ocean Observation

## Monthly/Three months: January 2025 and November 2024 to January 2025

Monthly: January 2025	Last three months: November 2024 to January 2025:
<p><b>Sea Surface Temperature Anomaly (Image 1):</b></p>  <p>Palau Monthly Average Sea Surface Temperature Anomaly: January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p><b>Sea Surface Temperature Anomaly (Image 4):</b></p>  <p>Palau 3 monthly Average Sea Surface Temperature Anomaly: November 2024 to January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p><b>Sea level anomaly (Image 2):</b></p>  <p>Palau Monthly Near Real Time Sea Level Anomaly: January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS/Duacs SLA</p>	
<p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>Palau Daily Coral Bleaching Alert: 04 February 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 04 February 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

# The Part 2i. Monthly and Seasonal Outlooks for March and March to May 2025

Monthly: March	Seasonal: March to May
<p><b>Monthly sea surface temperature anomaly (Image 5):</b></p> <p>Difference from average sea surface temperature forecast for March 2025</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p><b>Seasonal sea surface temperature anomaly (Image 6):</b></p> <p>Difference from average sea surface temperature forecast for March to May 2025</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p><b>Monthly sea level anomaly (Image 7):</b></p> <p>Difference from average sea surface height forecast for March 2025</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p><b>Seasonal sea level anomaly (Image 8):</b></p> <p>Difference from average sea surface height forecast for March to May 2025</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/02/2025 Issued: 05/02/2025</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p><b>4-week Coral Bleaching (Image 9):</b></p> <p>Palau 4 Weeks Coral Bleaching Outlook: 02 March 2025</p>  <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 02 March 2025</p>  <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

## Summary Statement

### Monthly and last three months: January 2025/November 2024 to January 2025 statement

The rainfall for January and the past three months was near-normal over Koror and majority of the country.

## Part 1i. Monthly and Seasonal Outlooks for March and March to May 2025

### Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for March and the next three months is very likely to be above normal over Palau.

Maximum and minimum temperatures during March and averaged over the next three months are very likely to be above normal over Palau.

## Part 2: Recent Ocean summary statement

### Monthly and last three months: January 2025/November 2024 to January 2025

January and averaged over November to January sea surface temperatures (SSTs) around Palau were 1.0 to 1.5°C above normal.

January sea levels around the Sonsorol were 150 to 200mm above normal and sea levels around remaining islands were 100 to 150mm above normal.

Daily Coral bleaching alert status shows No stress as of February 5, 2025.

## Part 2i. Monthly and Seasonal Outlooks for March and March to May 2025

### Ocean Variable statement

March sea surface temperatures around Angaur and the southwest islands are predicted to be 1.2 to 2.0°C above normal. Sea surface temperatures around the remaining islands are predicted to be 0.8 to 1.2°C.

Averaged over March to May, sea surface temperatures around Palau are predicted to be 0.8 to 1.2°C above normal.

March sea levels around Sonsorol are predicted to be 100 to 200mm above normal and sea levels around Hatohebei are predicted to be 60 to 100mm above normal.

Averaged over March to May, sea levels around Palau are predicted to be near-normal to normal.

Coral Bleaching outlook indicates Watch status for the next 4 weeks.

### In brief for Teleconference

- Rainfall was near normal for January and November to January.
- The rainfall outlook generally indicates above normal most likely in March and the next three months.
- SSTs were above normal for January and November to January. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were above normal for January. March sea levels are predicted to be above normal for the southwest islands and near-normal to normal sea levels across Palau for the next three months.

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

Product	Date: January 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Quality Checking Koror data in CliDE with Koror Historical Observations in xmACIS	Dec. 19 email, Reply received Jan. 3, 7, , 2025	WSO Palau and NOAA NWS PRH Climate Service	14	10	4		35-60	
Monthly 24-Hour Rainfall and Average Temperature Infographic	6	Guam Forecasters WSO Palau PEAC rep NOAA NWS PRH Climate Science/Services MET NOAA MET Tech USAPI Drought Monitor rep Desert Research Institute rep CRRF Retired WFO Guam WCM PPUC rep	14 13 1 1 1 1 1 12 1 1	12 9  1 1 1 1 7 1 1	2 4 1    5          		35-60	Nice work as usual Kiku!!! Happy New Year!!!  I think that the AWS on Peleliu confirms our suspicions about the manual gauge there. It looks like an exposure problem to me. (Chip Guard)  Views: 792 Reach: 434 Interactions: 5 Followers: 83% Non-followers: 17% Like: 1 Shares: 4
Monthly 24-Hour Rainfall and Average Temperature Infographic	6	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU,	99	41	58		35-60	(Stakeholders: MOH=Ministry of Health, JICA=Japan International Cooperation Agency, Japan Embassy, PMU=Project Management Unit, PALARIS=Land and Resource


		Department of Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority) and Social Media						Information System Office, Palau, CIP=Capital Improvement)
Palau Fisheries Weekly Bulletin	7	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority) and Social Media	100	41	59		35-60	Social Media Insights: 798 Views; 438 Reach; 4 Interactions; 39% Views by Non-followers & 64% Followers
Ngeremlengui State AWS data	7-9	WSO Palau and Ngeremlengui Governor	3	1	2		35-60	What is the reason for lack of data capture from Ngeremlengui ? The AWS is currently outputting data. NIWA has not integrated it into CliDE, which is where Kiku gets her information to do her monthly statistics. NIWA technicians have connected the AWS neon data to

								the CLiDE server; it will take some time to update but should be fully up and running soon. I will update again, when NIWA techs confirm that it is fully functioning.  (WSO Palau: Torual)
WSO Palau data for July 2024 Monthly Rainfall and Dec 2024 Corrections and Comments section in CLiDE	7-8	WSO Palau Staff MET, Climate and Data Officer, BoM: Simon, Ibrahim and Mark	4	3	1		35-60	We've identified the bug resulting in the July 2024 data not being presented. The fix will appear in the next version of CLiDE which is due for release in early February.  Thanks for identifying the fault and sharing the issue with us.
UCSD AWSs error and duplicated product	8	Coral Reef Research Foundation (CRRF) and WSO Palau	4	0	4		35.60	
Ngeremleng ui Gov a								
Palau's Island Climate Update	9	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy,	112	50	62		35-60	Views: 1304 Reach: 601 Interactions: 6 Followers: 67% Non-followers: 33%



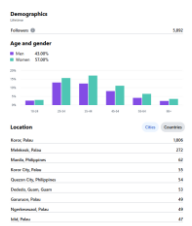
		NEMO, Palau and Regional PMU, Department of Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau, and Social Media						Like: 1 Shares: 6
PICASO and APCC Bulletin	9	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau and Social Media	112	50	62		35-60	Views : 874 Reach : 429 Interactions : 5 Followers : 71% Non-followers : 29% Shares : 5
EAR Watch	10	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of	112	50	62		35-60	Views : 938 Reach : 369 Interactions : 8 Followers : 69% Non-followers : 31% Likes : 3 Shares : 5

		Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau, and Social Media						
ACCESS-S Exceedance Graphics request	13	BoM and WSO Palau	2	0	2		35-60	Please find attached the images you are after, hopefully I'm not too late, it's my first day back at work after the New Year.
Question on ENSO Outlook Information from BoM for EAR Watch	13	BoM and WSO Palau	2	0	2		35-60	Yes unfortunately the ENSO outlook information at BoM has been discontinued, the main reason is to try and move people (stakeholders) away from only using ENSO to make climate forecasts for their location and to instead use a dynamical seasonal model which has much higher demonstrated skill above just using ENSO
Rainfall and Air Temperature Bulletin	13	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy,	116	54	62		35-60	Views : 1799 Reach : 841 Interactions : 11 Followers : 56%

		NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau, and Social Media						Non-followers : 44% Likes : 5 Shares : 7
PEAC and NOAA Climate Bulletin	14	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau and Social Media	114	52	62		35-60	Views : 1101 Reach : 459 Interactions : 12 Followers : 62% Non-followers : 38% Likes : 2 Shares : 10 Day 15 : 
PEAC Climate Conference Call	13	WSO Palau and social media	14	10	4		25-60	
Palau Fisheries Weekly Bulletin	14	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau	100	41	59		35-60	Social Media Insights: 443 Views; 249 Reach; 2 Interactions; 28% Views by Non-followers & 72% Followers; 1 Likes; and 2 Shares

		and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works) and Social Media						
Palau Climate Bulletin	16	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority), WSO Palau and Social Media	114	52	62		35-60	Views : 931 Reach : 392 Interactions : 7 Followers : 66% Non-followers : 34% Likes : 2 Shares : 7
Palau Ocean Bulletin	16	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public	100	41	59		35-60	Social Media Insights: 543 Views; 305 Reach; 4 Interactions; 28% Views by Non-followers & 72% Followers; 1 Likes; 2 Reactions and and 2 Shares

		Works) and Social Media						
Heads Up ! Infographic	16	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority) and Social Media	113	50	63		35-60	Views : 536 Reach : 279 Interactions : 1 Followers : 88% Non-followers : 13% Heart : 1
Palau Weekly Fisheries Bulletin	21	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation , Red Cross, PALARIS, CIP and Public Works) and Social Media	100	41	59		35-60	Social Media Insights: 385 Views; 208 Reach; 3 Interactions; 16% Views by Non-followers & 84% Followers; 4 Likes; and 3 Reactions
Virtual Meeting on Weather and Climate,	23	Coral Reef Research Foundation	4	0	4		35-60	
Request for a WSO Palau	24	US Embassy parents and children	17	3	15		35-60 10-13	Posted video of visit. Views : 974

Station Visit, Weather and Climate briefing, Watched videos on Pacific Adventures of the Climate Crab, How Hurricanes Form, and Tsunamis : Know What to Do.								Reach : 647 Interactions : 5 Followers : 58% Non-followers : 42% Likes : 5 Heart : 2 Shares : 2
Palau Weekly Fisheries Bulletin	28	Various stakeholders (16 State Gov't offices, MOH, JICA, Japan Embassy, NEMO, Palau and Regional PMU, Department of Transportation, Red Cross, PALARIS, CIP and Public Works, Palau Housing Authority) and Social Media	100	41	59		35-60	Social Media Insights:301 Views; 212 Reach; 2 Interactions; 15% Views by Non-followers & 85% Followers; 2 Likes; and 2 Reactions
<b>Total</b>			<b>1534</b>	<b>704</b>	<b>767</b>	<b>0</b>	<b>10-60</b>	 <p>Demographics</p> <p>Followers: 10</p> <p>Age and gender</p> <p>Age: 100%</p> <p>Gender: 100%</p> <p>Location</p> <ul style="list-style-type: none"> <li>Palau: 100%</li> <li>Belgium: 0%</li> <li>India: 0%</li> <li>United States: 0%</li> <li>Canada: 0%</li> <li>France: 0%</li> <li>Germany: 0%</li> <li>Italy: 0%</li> <li>Japan: 0%</li> <li>South Korea: 0%</li> <li>Spain: 0%</li> <li>Sweden: 0%</li> <li>Switzerland: 0%</li> <li>United Kingdom: 0%</li> <li>United States: 0%</li> </ul>