Agenda 3iii: Looking Back:
Review & Evaluation of May-October 2021 Climate Outlook

Northern Hemisphere (West Pacific) Tropical Cyclones

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Pacific Islands Climate Outlook Forum (PICOF 9)
Virtual (via Zoom) Meeting on 21 October 2021
Current Climate: El Nino/La Nina

2021: ENSO Neutral
La Nina Watch Now in Effect

The current state of the climate plays a large role in where TCs develop—and where they track. Current forecasts take into account if we are in an El Nino or a La Nina pattern.

**El Nino:** TCs tend to develop farther east within Pohnpei and Kosrae States, or even within the RMI and generally track W-WNW.

**La Nina:** TCs tend to develop farther west, within Chuuk or Yap States, or the Republic of Palau, continuing W-WNW toward the Philippines or the Philippine Sea.
Current Climate: El Nino/La Nina

2015 TCs
Annual

2020 TCs
Thru NOV 13
A near-normal TC Outlook was predicted for the remainder of 2021 for Guam, the CNMI, ROP, FSM and RMI.

<table>
<thead>
<tr>
<th>REGION</th>
<th>TROPICAL STORMS</th>
<th>TYPHOONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marshall Islands (north of 6N)</td>
<td>1 to 2</td>
<td>0 to 1</td>
</tr>
<tr>
<td>Marshall Islands (south of 6N)</td>
<td>0 to 1</td>
<td>0 to 1</td>
</tr>
<tr>
<td>Pohnpei State (north of 6N)</td>
<td>1 to 2</td>
<td>0 to 1</td>
</tr>
<tr>
<td>Chuuk State (north of 6N)</td>
<td>2 to 3</td>
<td>1 to 2 (1 major)</td>
</tr>
<tr>
<td>Kosrae, Pohnpei, Chuuk States (south of 6N)</td>
<td>1 to 2</td>
<td>0 to 1</td>
</tr>
<tr>
<td>Yap State and Palau</td>
<td>2 to 3</td>
<td>1 to 2 (1 major)</td>
</tr>
<tr>
<td>Guam, Rota, Tinian and Saipan</td>
<td>2 to 3</td>
<td>2 to 3 (1 to 2 major)</td>
</tr>
<tr>
<td>Northern CNMI</td>
<td>1 to 2</td>
<td>1 to 2 (1 to 2 major)</td>
</tr>
</tbody>
</table>
2021 Tropical Cyclones – So Far

Tropical Cyclone Tracks w/2000nm of 14N, 140E.
with winds 0 - 200 Kts
for months 1 - 12
2021 - 2021 (24 tracks).
Western North Pacific 2021 TC Season

Super Typhoon Surigae
April 2021
Republic of Palau; Yap State, FSM

Super Typhoon Surigae IR
2021-04-16 19:10
https://rammb-data.cira.colostate.edu/tc_realtime/

NOAA NWS Super Typhoon Surigae
Forecast Track and Uncertainty Graphic
https://www.weather.gov/gum/Cyclones
Western North Pacific 2021 TC Season

Tropical Storm Choi-Wan
May-June 2021
Republic of Palau

Tropical Storm Choi-Wan IR
2021-05-31 21:15
https://rammb-data.cira.colostate.edu/tc_realtime/

NOAA NWS Tropical Storm Choi-Wan Forecast Track and Uncertainty Graphic
https://www.weather.gov/gum/Cyclones
Typhoon Champi
June 2021
Guam

Typhoon Champi IR
2021-06-24 21:17

NOAA NWS Typhoon Champi
Forecast Track and Uncertainty Graphic

https://rammb-data.cira.colostate.edu/tc_realtime/

https://www.weather.gov/gum/Cyclones
Tropical Storm Omais
August 2021
Guam; Commonwealth of the N. Mariana Islands

Tropical Storm Omais IR
2021-08-16 22:40

https://rammb-data.cira.colostate.edu/tc_realtime/

Tropical Storm Omais
16W
Advisory 17
Initial Location (12.3 N 159.6 E)
Sunday, August 15, 2021 at 1 AM WPT
Max Sustained Wind 40 mph
Movement W at 16 mph

NOAA NWS Tropical Storm Omais
Forecast Track and Uncertainty Graphic

https://www.weather.gov/gum/Cyclones
Super Typhoon Mindulle
September 2021
Guam; Rota, CNMI

Super Typhoon Mindulle IR
2021-09-26 21:26
https://rammb-data.cira.colostate.edu/tc_realtime/

NOAA NWS Super Typhoon Mindulle Forecast Track and Uncertainty Graphic
https://www.weather.gov/gum/Cyclones
Western North Pacific 2021 TC Season

Tropical Storm Namtheun
October 2021
Northeast of Guam and CNMI

Tropical Storm Namtheun IR
2021-10-12 21:28

https://rammb-data.cira.colostate.edu/tc_realtime/

NOAA NWS Tropical Storm Namtheun
Forecast Track and Uncertainty Graphic

https://www.weather.gov/gum/Cyclones
Western North Pacific 2021 TC Season

Tropical Storm Kompasu
October 2021

MONSOON: Republic of Palau, Yap State, FSM; Guam; CNMI

Tropical Storm Kompasu IR
2021-10-10 21:28

https://rammb-data.cira.colostate.edu/tc_realtime/

NOAA NWS Tropical Storm Kompasu Forecast Track and Uncertainty Graphic
Not Issued: Outside AOR

https://www.weather.gov/gum/Cyclones
So far in 2021, there have been 24 tropical cyclones in the western North Pacific.

- Tropical Depressions: 4
- Tropical Storms: 13
- Typhoons: 4
- Super Typhoons: 3