

Agenda 5iii: Looking Forward: Seasonal and Intra-Seasonal Pacific Guidance for May to October 2023

Northern Hemisphere (West Pacific)

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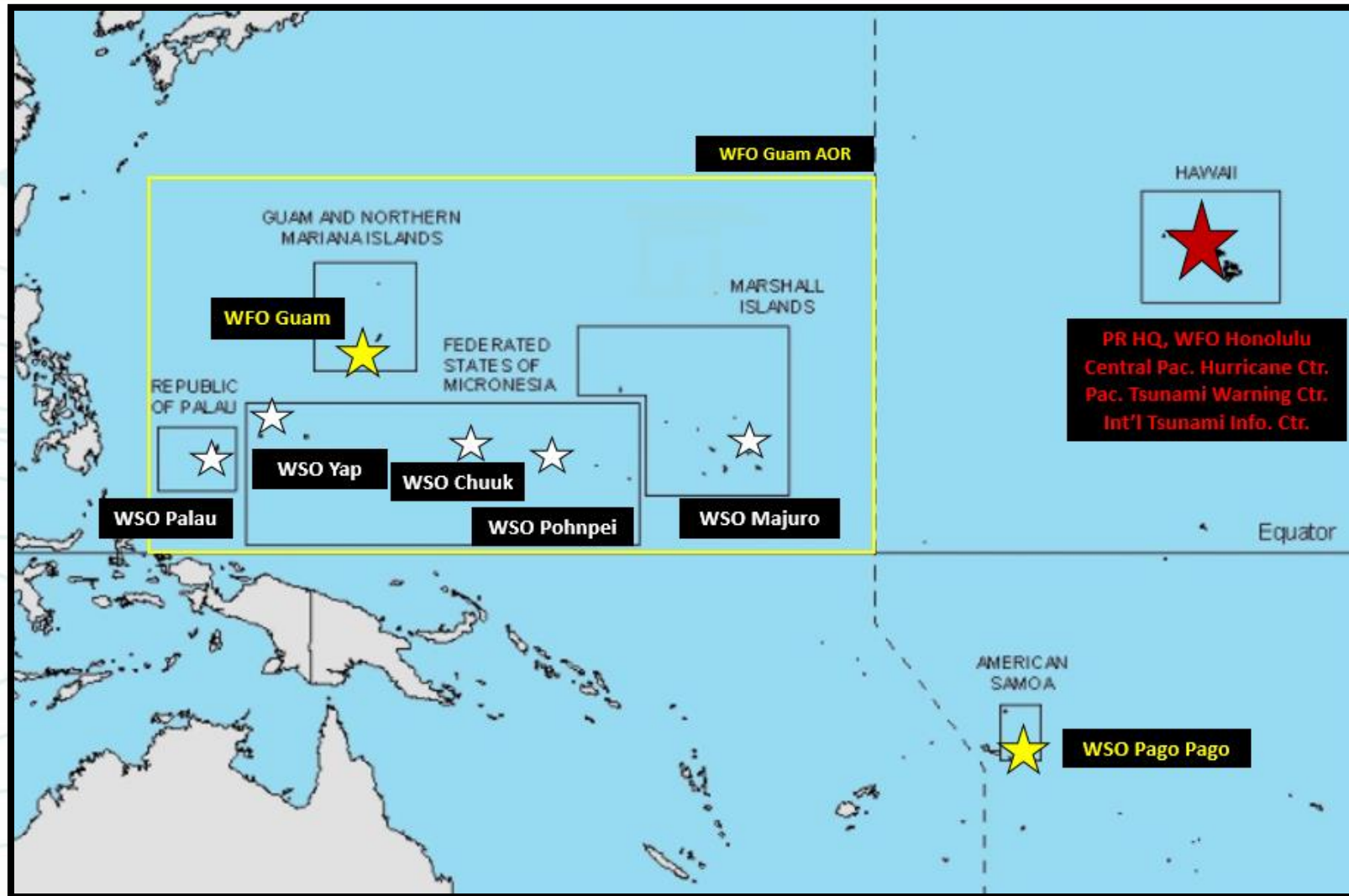
Weather Forecast Office, Guam

NOAA

Outline of Presentation

- **WFO Guam and NWS Pacific Region**
- **Current State of the Climate and Impacts to TC Genesis**
- **2022 Western North Pacific TC Outlook / Observed**
- **2023 Western North Pacific (For the US Affiliated Pacific Islands (USAPI)) TC Outlook**

WFO Guam and the NWS Pacific Region

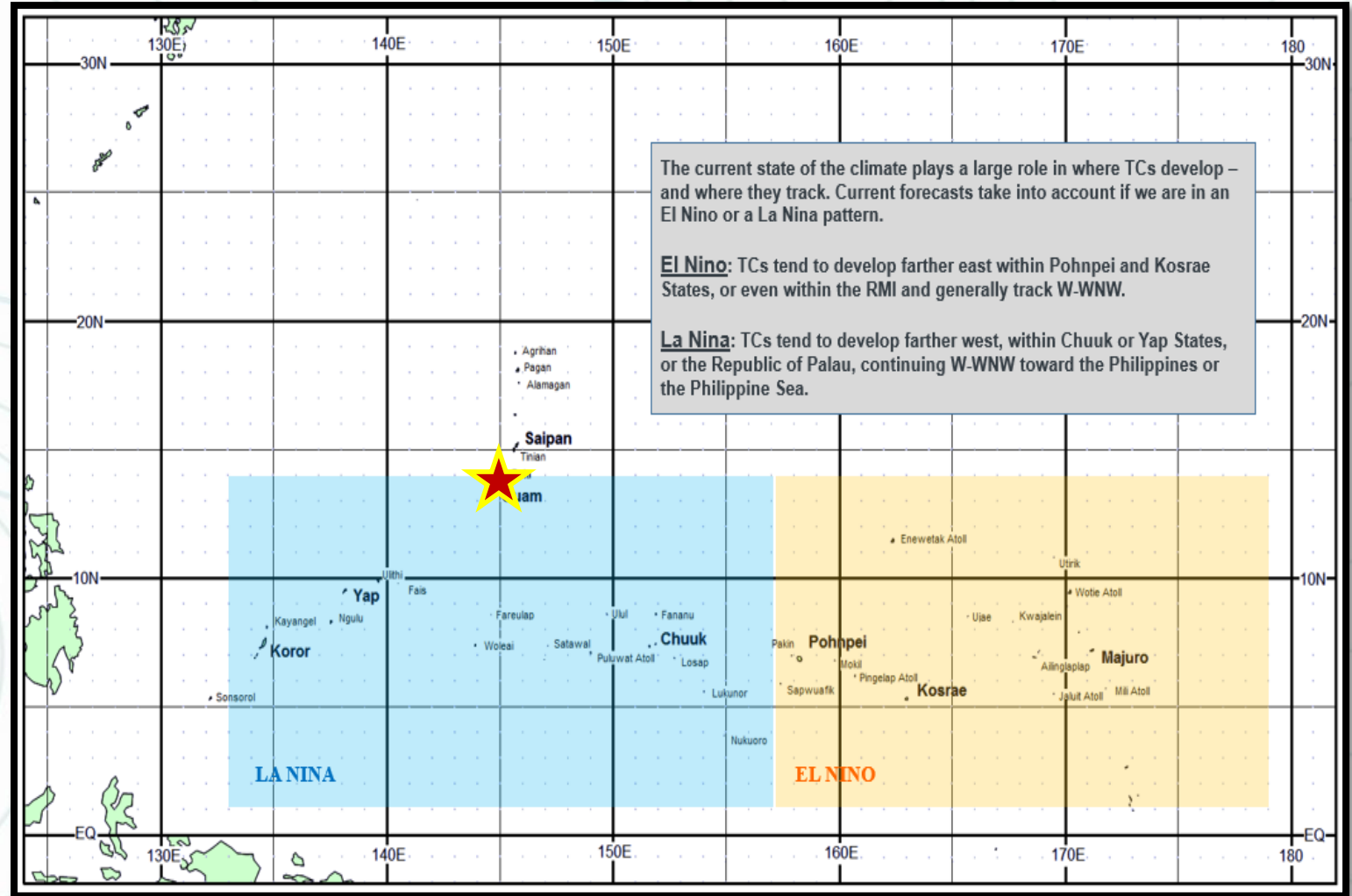


Current Climate: ENSO Status

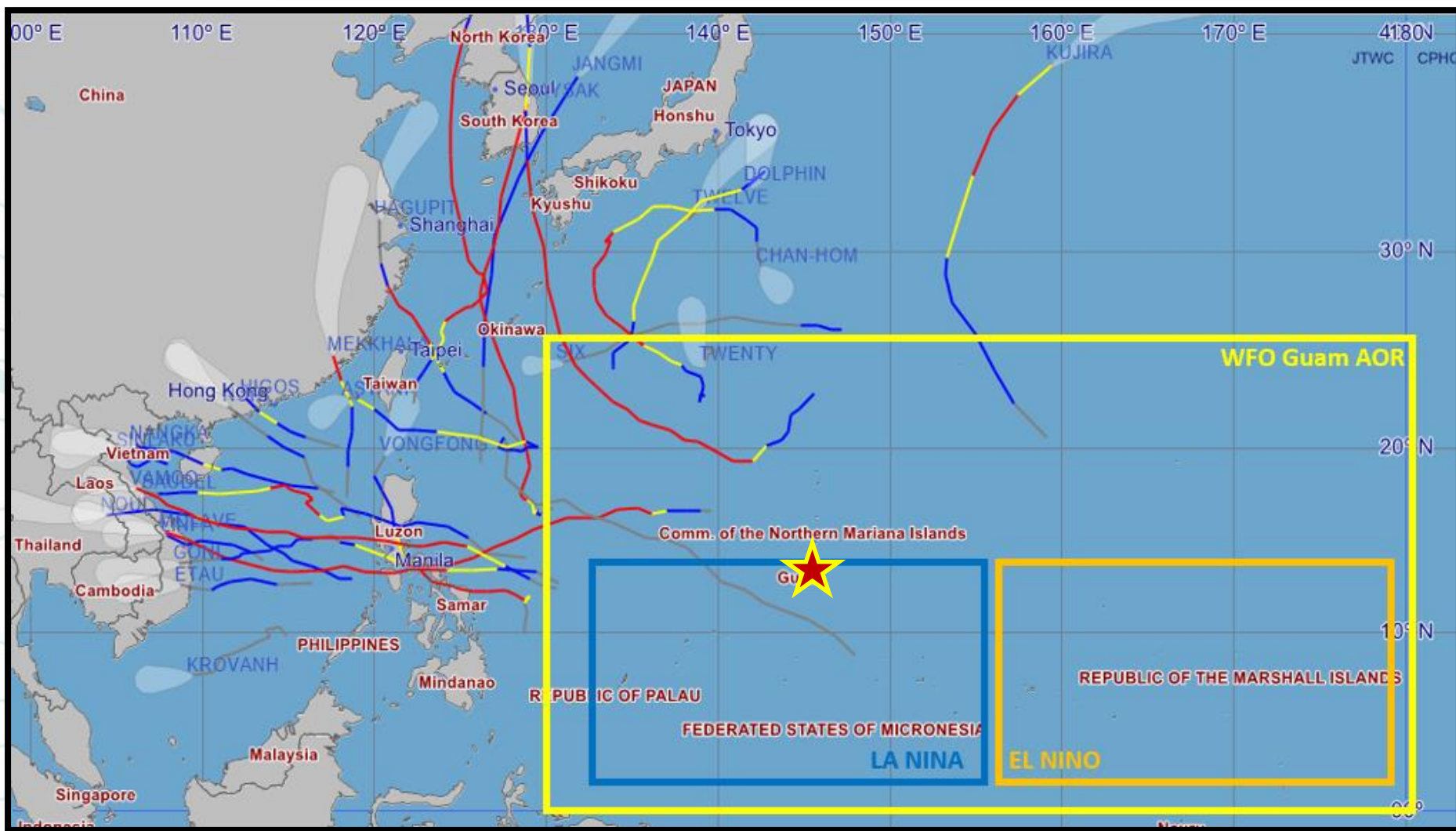
- On average, the total number of annual tropical cyclones in the western North Pacific does not vary significantly.
- Location of tropical cyclone genesis can fluctuate significantly from year to year based on the current state of the climate.

Currently:

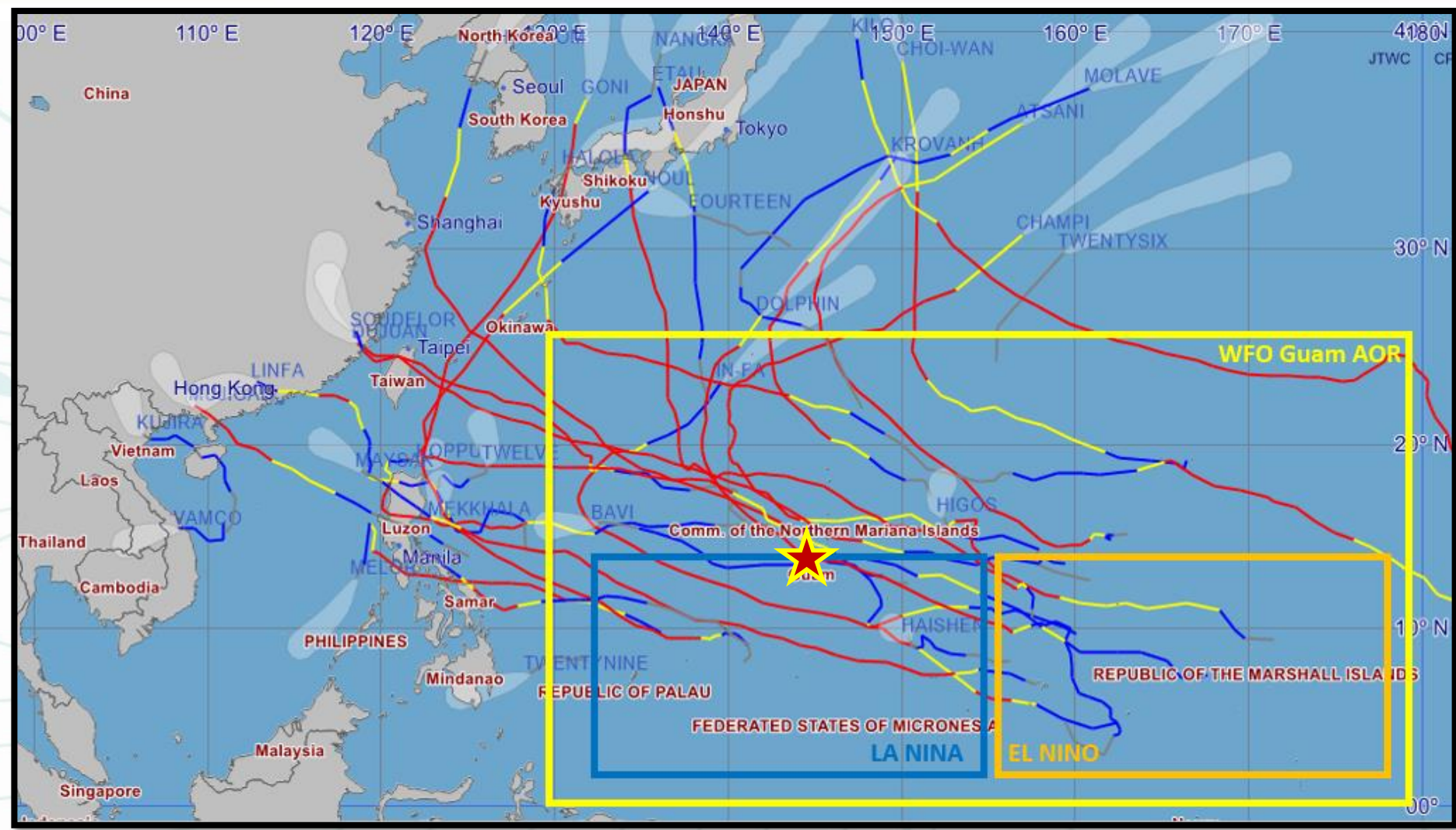
El Niño Watch



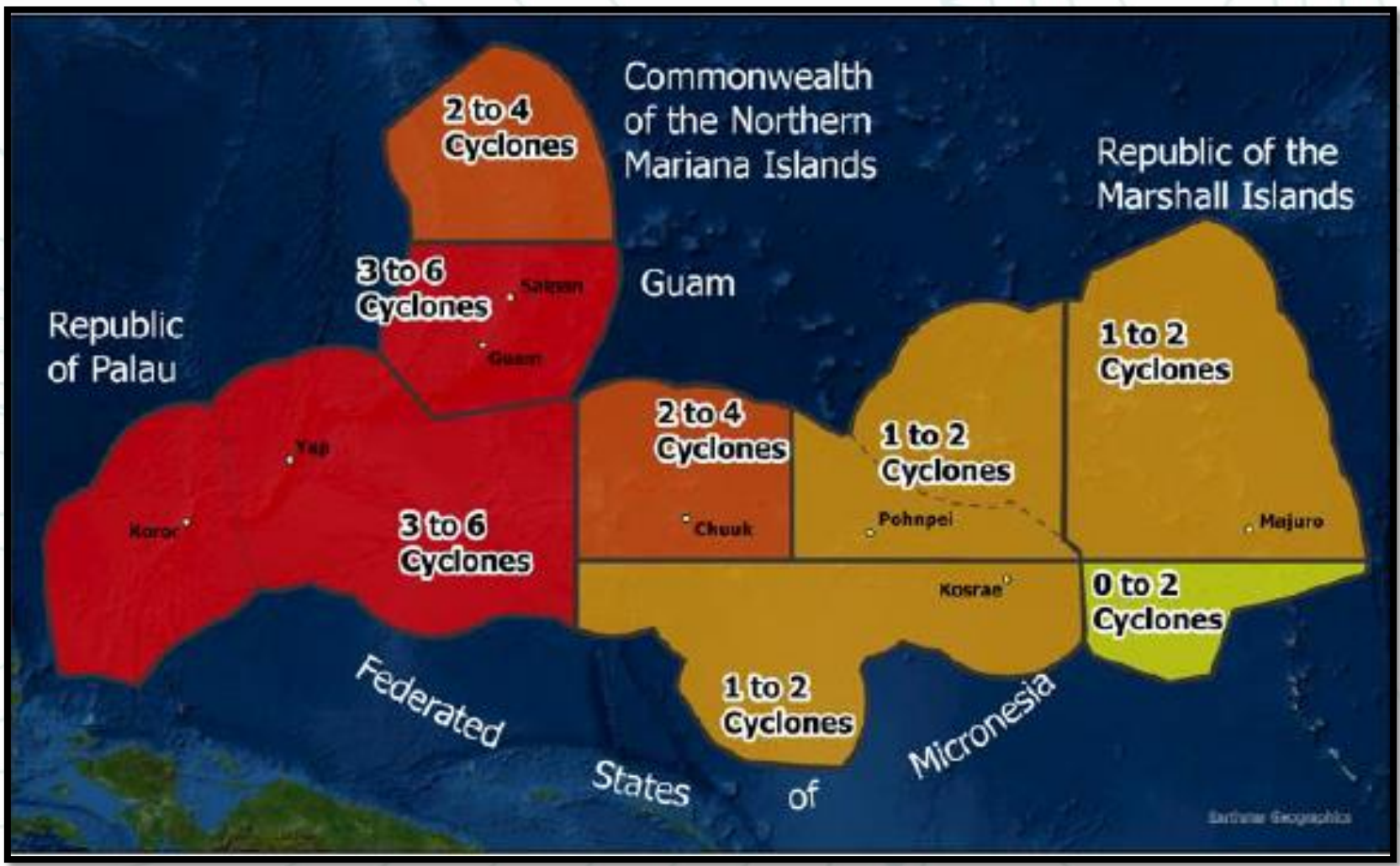
2020 Western Pacific Tropical Cyclones: La Niña



2015 Western Pacific Tropical Cyclones: El Niño



June 2022 Western Pacific TC Outlook for USAPI



June 2022 Western Pacific TC Outlook for USAPI

REGION	NAMED STORMS (≥39 mph max sust'd)	TYPHOONS (≥74 mph max sust'd)
Marshall Islands (north of 6N)	1 to 2	0 to 1
Marshall Islands (south of 6N)	0 to 2	0 to 1
Pohnpei State (north of 6N)	1 to 2	0 to 1
Chuuk State (north of 6N)	2 to 4	1 to 2 (1 major)
Kosrae, Pohnpei, Chuuk States (south of 6N)	1 to 2	0 to 1
Yap State and Palau	3 to 6	1 to 3 (1 major)
Guam, Rota, Tinian and Saipan	3 to 6	1 to 3 (1 to 2 major)
Northern CNMI	2 to 4	1 to 2 (1 to 2 major)

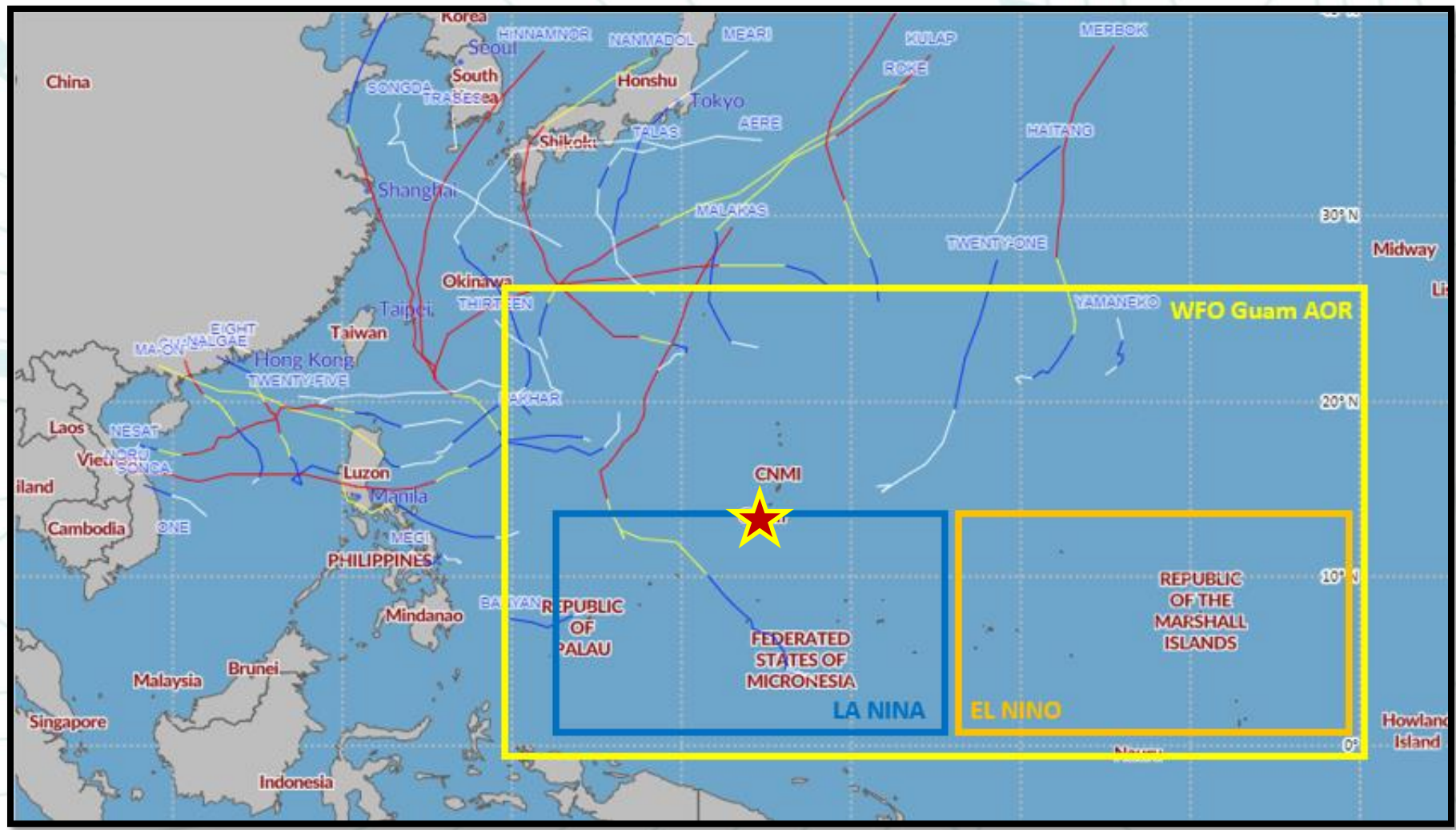
A near-normal TC Outlook was predicted for June to December 2022 for Guam, the CNMI, ROP, FSM and RMI. Based on a possible transition to ENSO-neutral.

Sept 2022 UPDATED West Pacific TC Outlook for USAPI

REGION	NAMED STORMS (≥39 mph max sust'd)	TYPHOONS (≥74 mph max sust'd)
Marshall Islands (north of 6N)	0 or 1	0 or 1
Marshall Islands (south of 6N)	0 or 1	0 or 1
Pohnpei State (north of 6N)	1 or 2	0 or 1
Chuuk State (north of 6N)	2 or 3	1 or 2 (0 or 1 major)
Kosrae, Pohnpei, Chuuk States (south of 6N)	1 or 2	0 or 1
Yap State and Palau	3 or 4	1 or 2 (0 or 1 major)
Guam, Rota, Tinian and Saipan	2 or 3	1 or 2 (0 or 1 major)
Northern CNMI	1 or 2	0 or 1 (0 or 1 major)

A below-normal TC Outlook was predicted for September to December 2022 for Guam, the CNMI, ROP, FSM and RMI based on the continuation of La Niña.

2022 Western Pacific Tropical Cyclones: La Niña

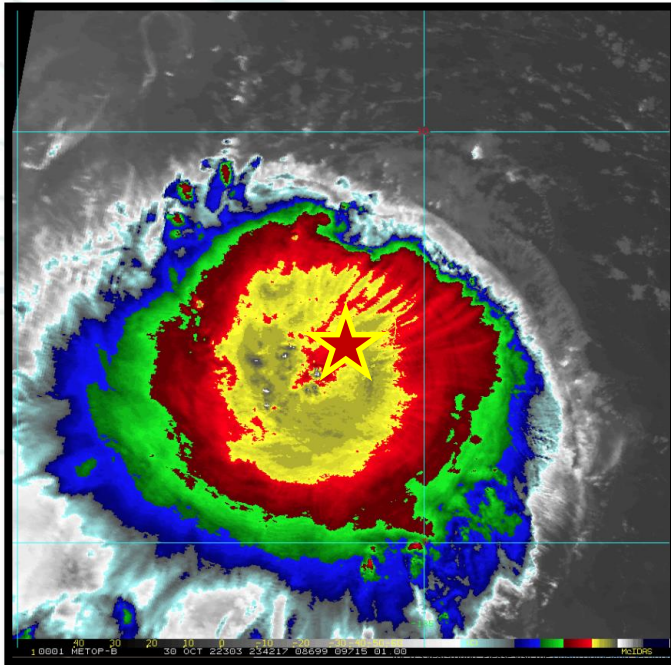


Western North Pacific 2022 Season

Tropical Dep./Storm Banyan (27W)

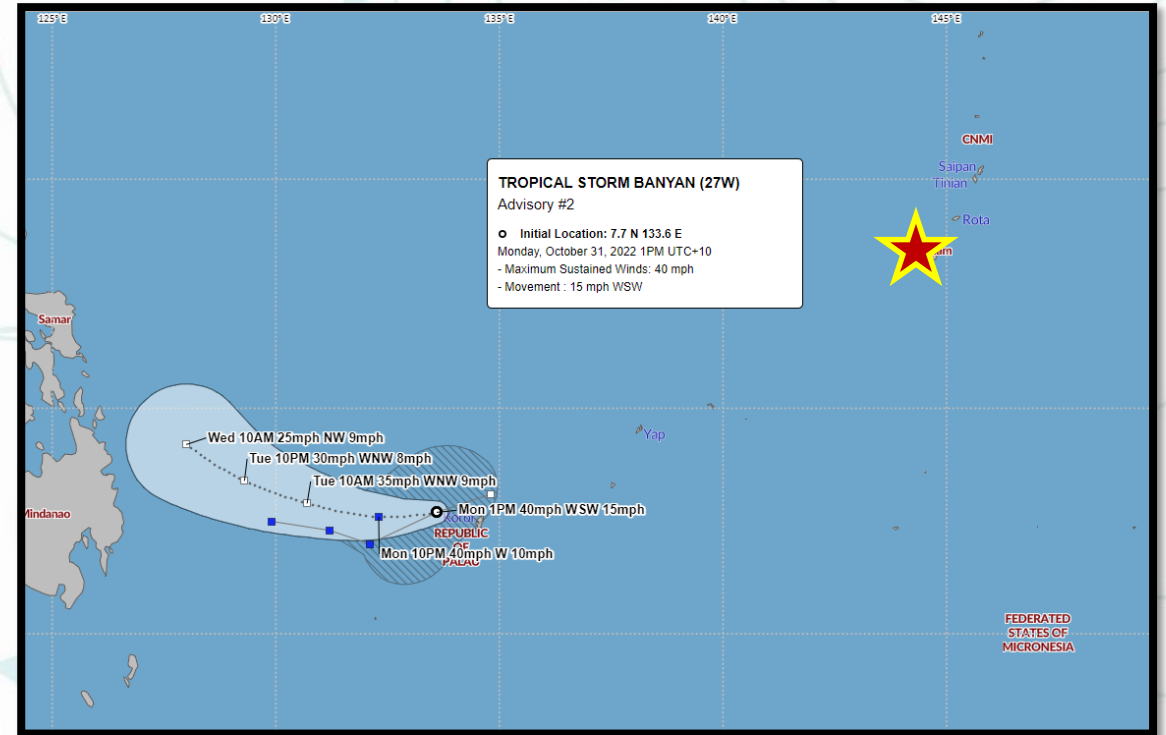
October/November 2022

Palau



Tropical Depression 27W IR
2022-10-31 09:42

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



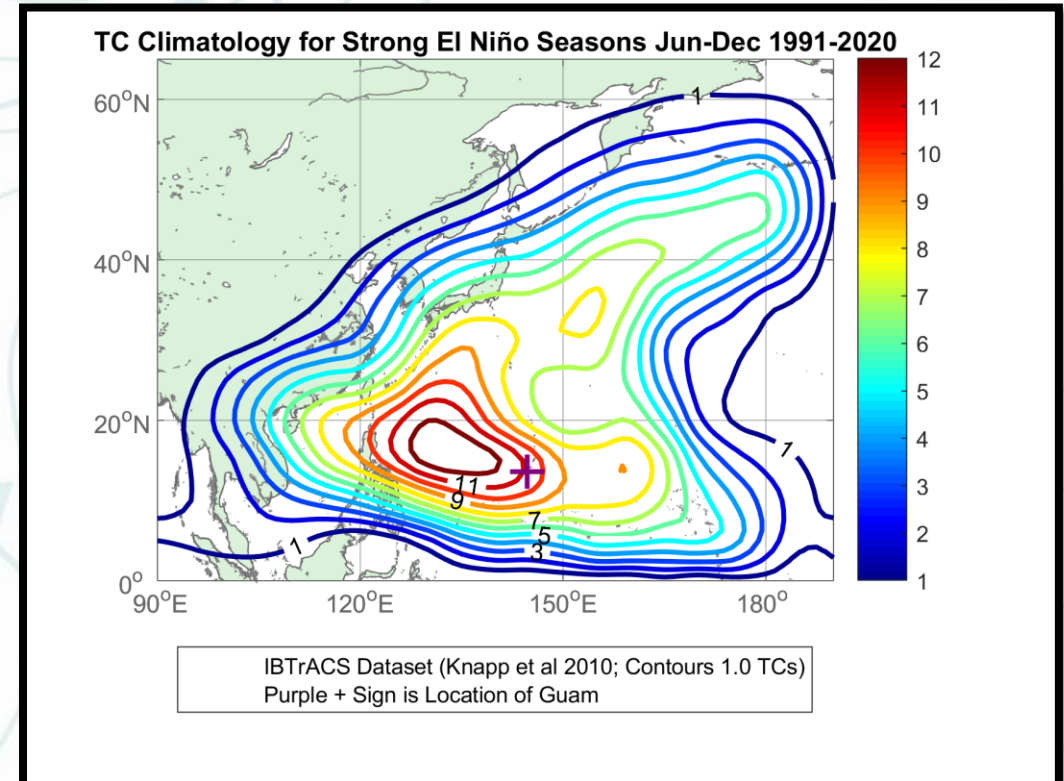
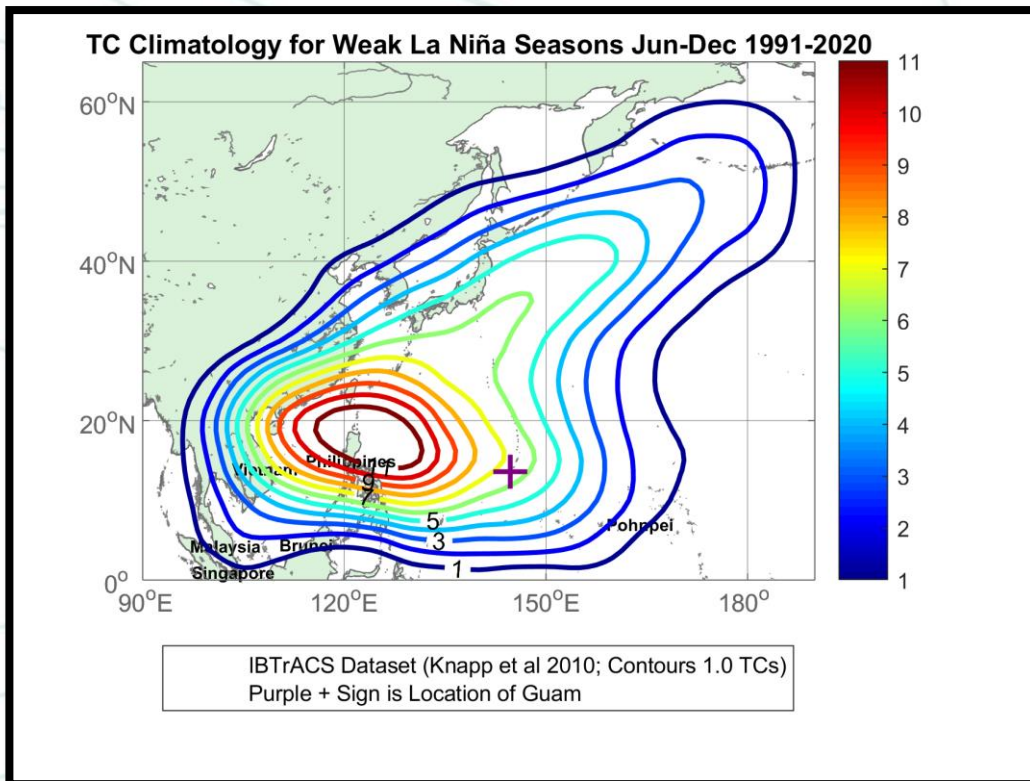
NOAA NWS Tropical Dep./Storm Banyan (27W)
Forecast Track and Uncertainty Graphic

<https://www.weather.gov/gum/Cyclones>

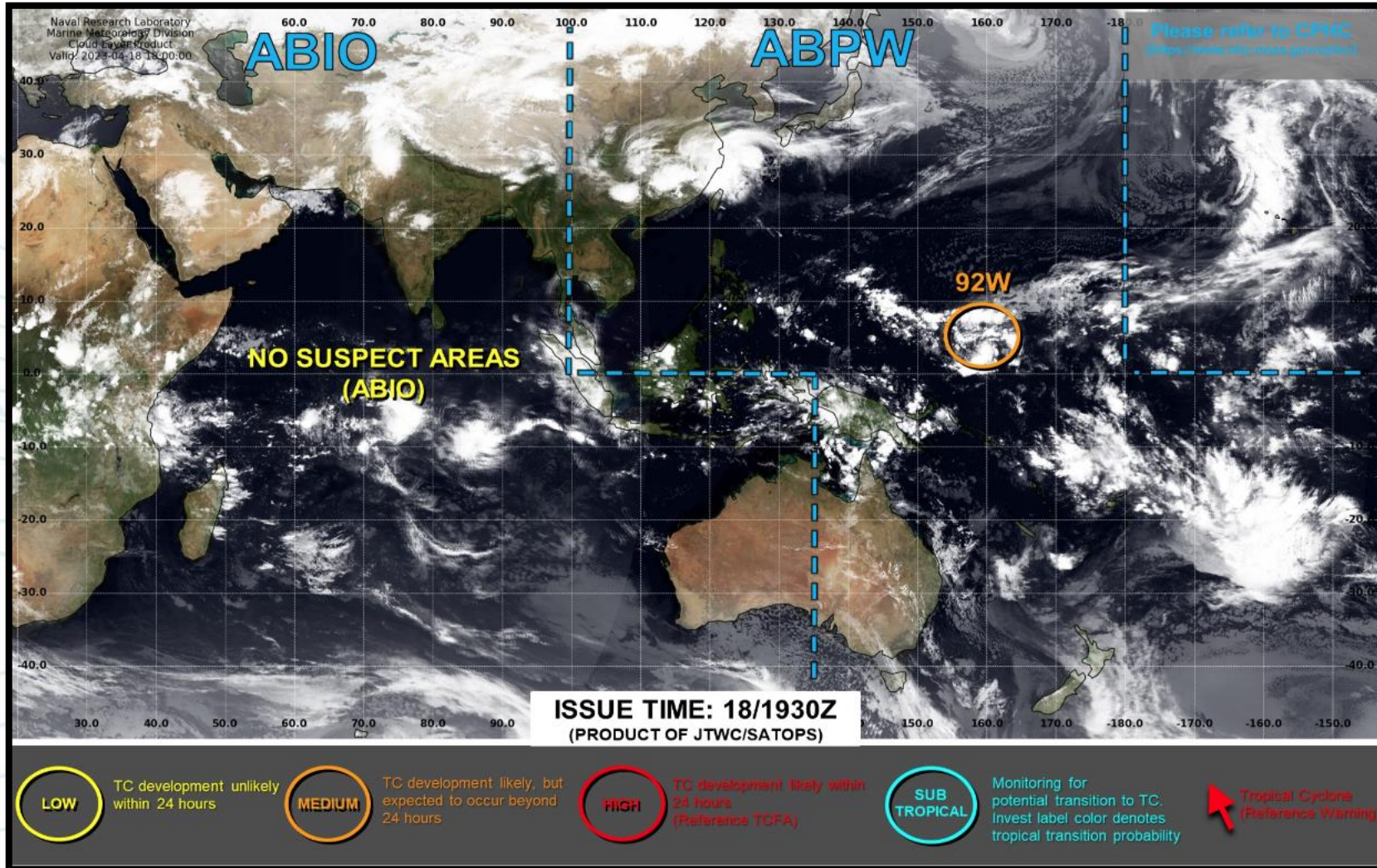
West Pacific (USAPI) Tropical Cyclone Outlook

- NOAA/June 2023

- Collaborative TC Outlook Underway for USAPI; WFO Guam, NWS Pacific Region, NOAA CPC, ARL, OAR; **Not a basin-wide prediction**
- **Outlook to be Completed and Released on June 1**
- Tent. Outlook: Based on current climate pattern: **Above Normal Activity**



2022 West Pacific Tropical Cyclones – So Far



Key Messages / Summary

- **La Nina maintained below-normal TC activity for the U.S. Affiliated Pacific Islands (USAPI) of the western North Pacific in 2020, 2021, 2022**
- **A possible shift from La Nina to ENSO-neutral in 2022 did not occur, resulting in little TC activity in the USAPI**
- **Tropical Storm Banyan (27W) was a short-lived system which formed over the Republic of Palau in late October 2022**
- **2023: La Nina has ended, ENSO-neutral conditions are present with a 62% chance of El Nino by fall; El Nino Watch now in effect**
- **El Nino conditions support increased TC activity across the USAPI**
- **Invest 92W (Tropical Cyclone Formation Alert by the Joint Typhoon Warning Center at 1200 ChST 19 April) could become Tropical Depression 01W, near Pohnpei, Federated States of Micronesia**

Thank You! Contact and R.C.C. Information

Join WFO Guam as we host our 3rd Annual Regional Climate Conference

This 2-hour Webinar will feature weather, climate and preparedness topics of interest to islands across the western North Pacific

When:

Thu, June 1, 2023, 9:00-11:00 AM Guam

Wed, May 31, 2023, 1:00-3:00 PM Hawaii

For Registration Information:

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