

# Climate and Hydrology Monthly Report for Puerto Rico and the US Virgin Islands

Valid for January 2025

Issued By: WFO San Juan, PR

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# January Climate Summary for Primary Climate Sites

## San Juan Area

(Period of Record: 1898 to present)

Highest: **87 °F** on the 27 & 29<sup>th</sup>

Lowest: **70 °F** on the 12<sup>th</sup>

Average: 79.6 °F (+2.0; above normal)

Rain Total: 3.51" (-0.56; below normal)

Days with  $T_{max} \geq 90$  °F: 0

Nights with  $T_{min} \geq 80$  °F: 0

Days with Rain ( $\geq 0.01$ " ): 20

### Rankings:

**4<sup>th</sup> warmest**

**56<sup>th</sup> wettest**

### Remarks:

11 daily warmest minimum records set or tied.

## St. Thomas

(Period of Record: 1953 to present)

Highest: **87 °F** on the 30<sup>th</sup>

Lowest: **67 °F** on the 12<sup>th</sup>

Average: 79.1 °F (+0.3; above normal)

Rain Total: 1.11" (-1.53; below normal)

Days with  $T_{max} \geq 90$  °F: 0

Nights with  $T_{min} \geq 80$  °F: 0

Days with Rain ( $\geq 0.01$ " ): 17

### Rankings:

**12<sup>th</sup> warmest**

**11<sup>th</sup> driest**

### Remarks:

Two days of missing precipitation data.

## St. Croix

(Period of Record: 1951 to present)

Highest: **89 °F** on the 19, 25<sup>th</sup>

Lowest: **67 °F** on the 12, 13<sup>th</sup>

Average: 79.9 °F (+2.2; above normal)

Rain Total: M

Days with  $T_{max} \geq 90$  °F: 0

Nights with  $T_{min} \geq 80$  °F: 0

Days with Rain ( $\geq 0.01$ " ): M

### Rankings:

**4<sup>th</sup> warmest**

### Remarks:

No precipitation estimates due to a sensor malfunction.

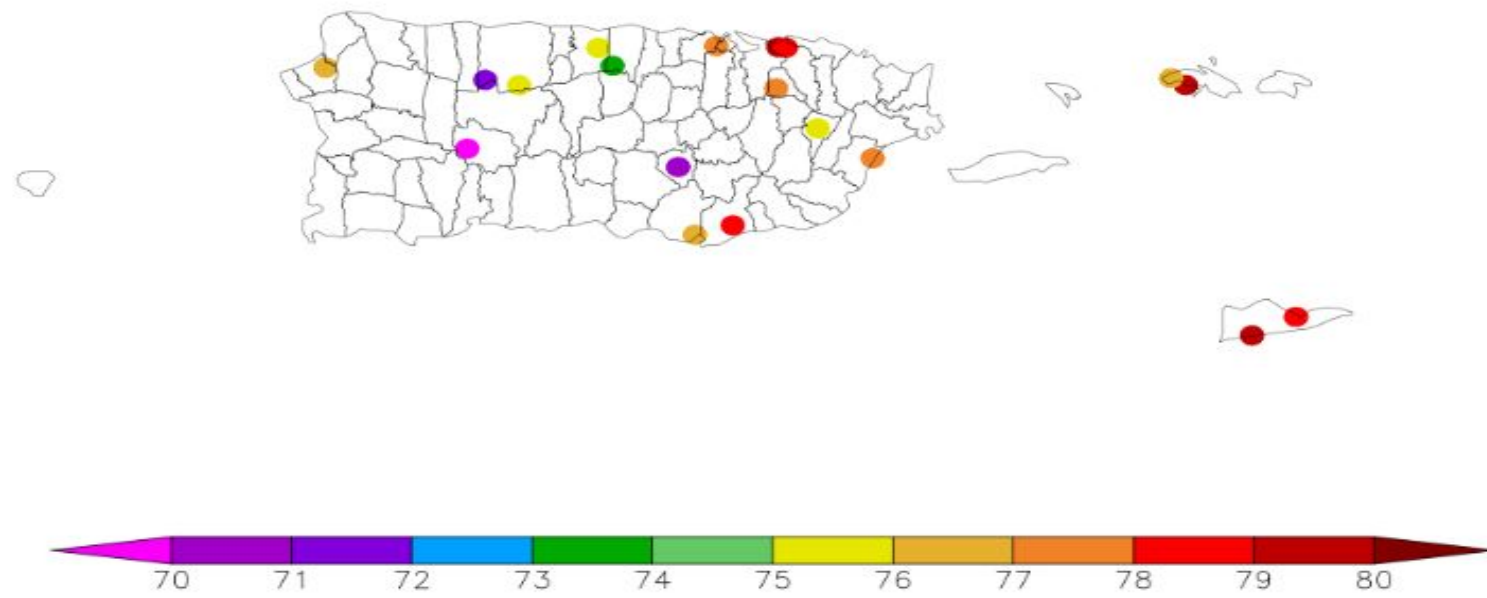




# Observed Temperature

Link to generate the latest [ACIS Climate Maps](#)

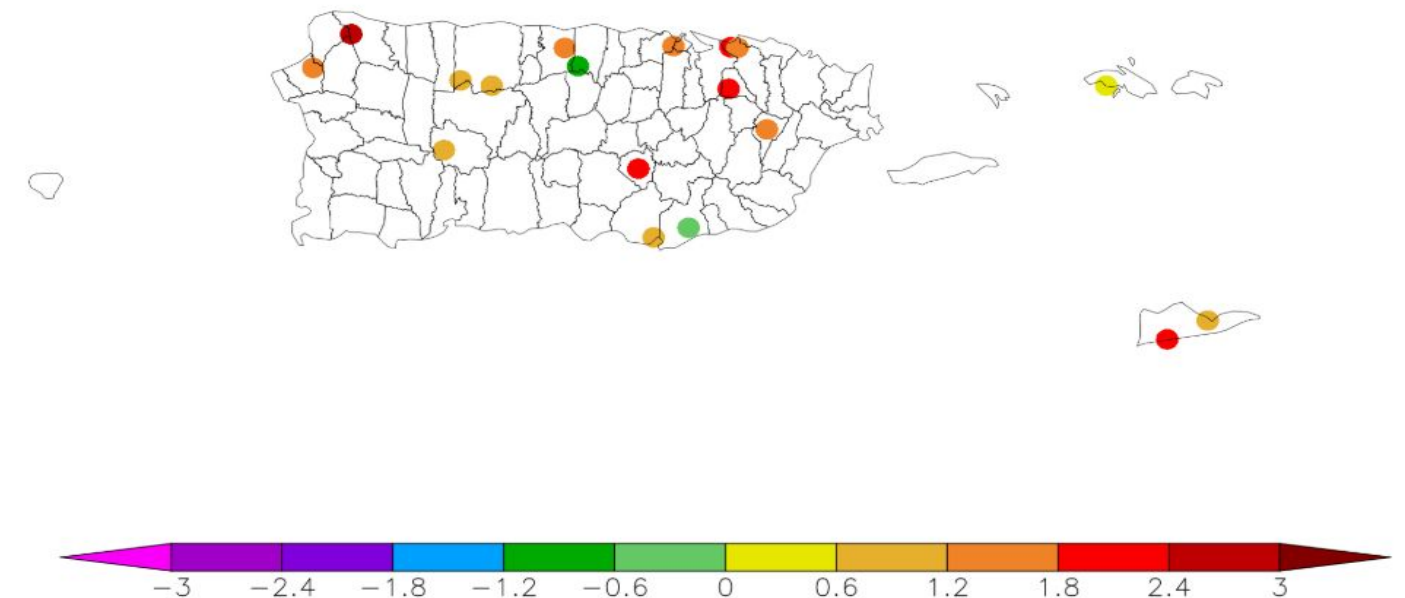
Temperature (F)  
1/1/2025 - 1/31/2025



Generated 2/2/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)  
1/1/2025 - 1/31/2025



Generated 2/6/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Temperatures across the majority of the local sites have been mostly above normal. The COOP station with the highest daily maximum temperature was Lajas Substation with **93F**.

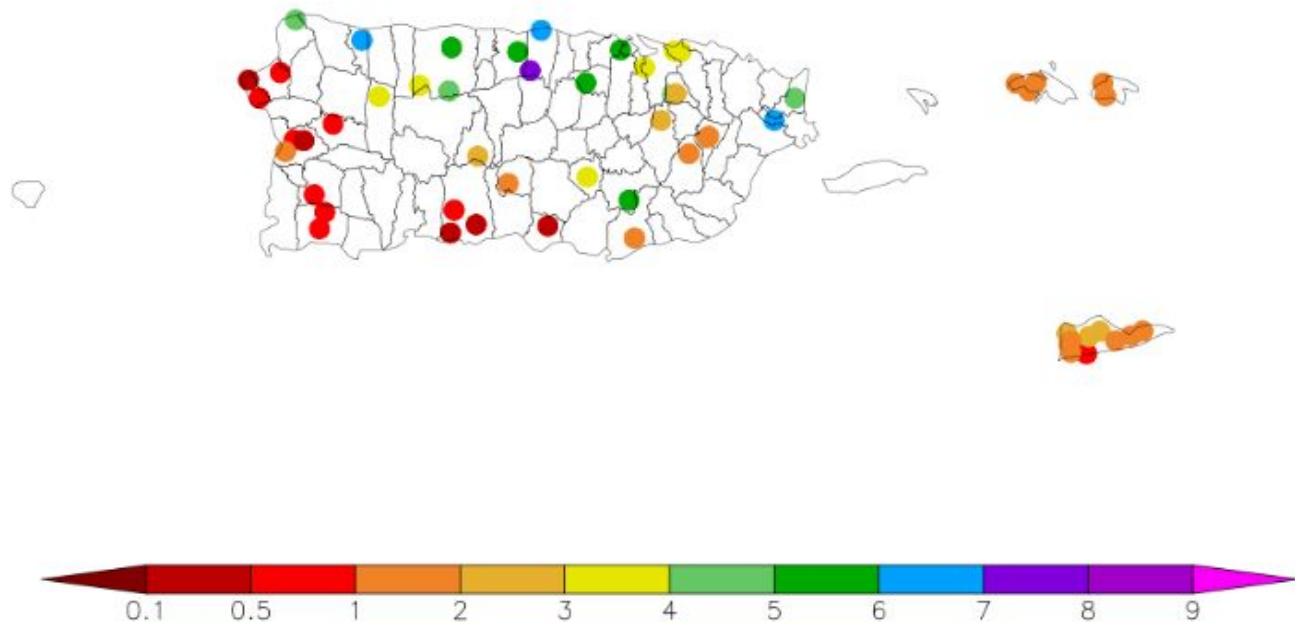
Image Captions:  
 Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)  
 Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)  
 Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



# Observed Rainfall

Link to generate the latest [ACIS Climate Maps](#)

Precipitation (in)  
1/1/2025 - 1/31/2025

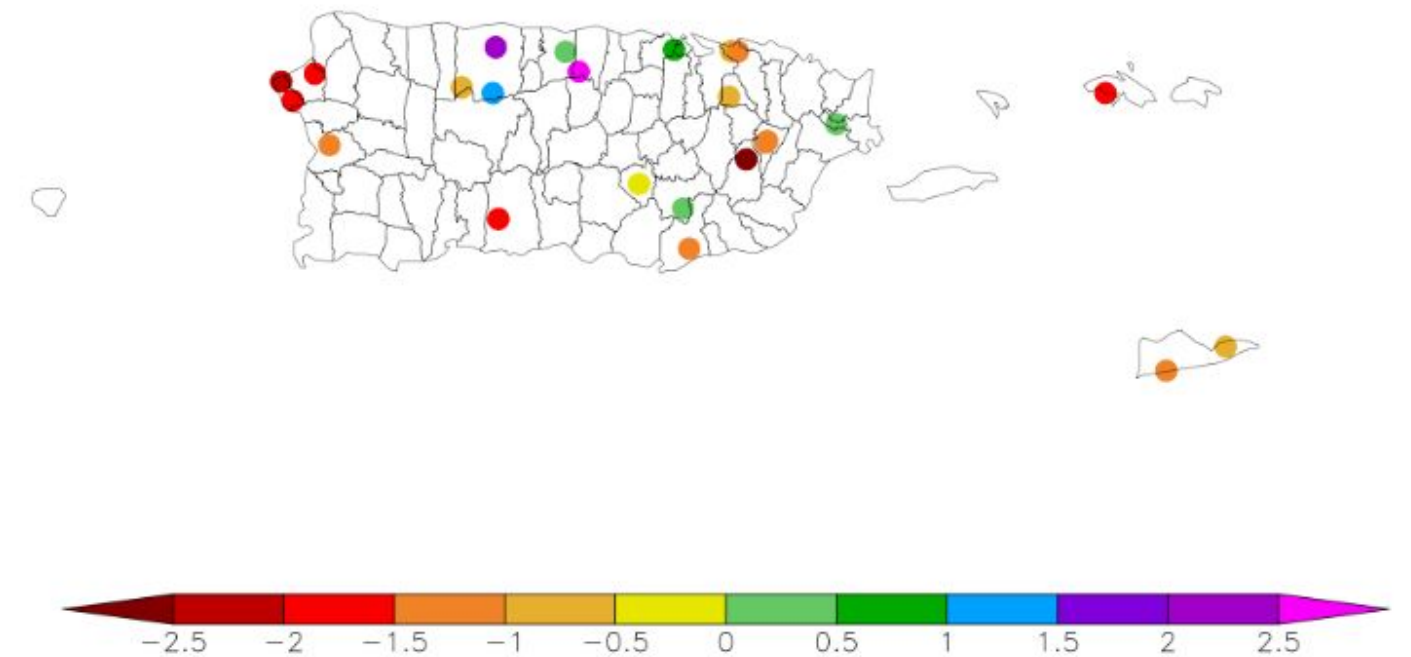


Generated 2/2/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Most stations Puerto Rico and the Virgin Islands ended drier than normal, with some exceptions along the north-central and eastern Puerto Rico. The COOP station with the highest monthly rainfall accumulation was **Palmarejo** in Vega Baja, with **7.82"**.

Departure from Normal Precipitation (in)  
1/1/2025 - 1/31/2025



Generated 2/2/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:  
 Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)  
 Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)  
 Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.





# Estimated Rainfall

Estimated Rainfall was obtained from MRMS NSSL

- The highest rainfall accumulations were observed across north-central and northeastern Puerto Rico, with localized amounts ranging from 10 to 15 inches.
- Most of the island recorded rainfall totals between 2 to 6 inches, with higher amounts along the northern slopes and interior regions.
- Lower accumulations (1 to 3 inches) were observed across southwestern Puerto Rico, particularly near Guánica, Cabo Rojo, and parts of the western coastal areas.

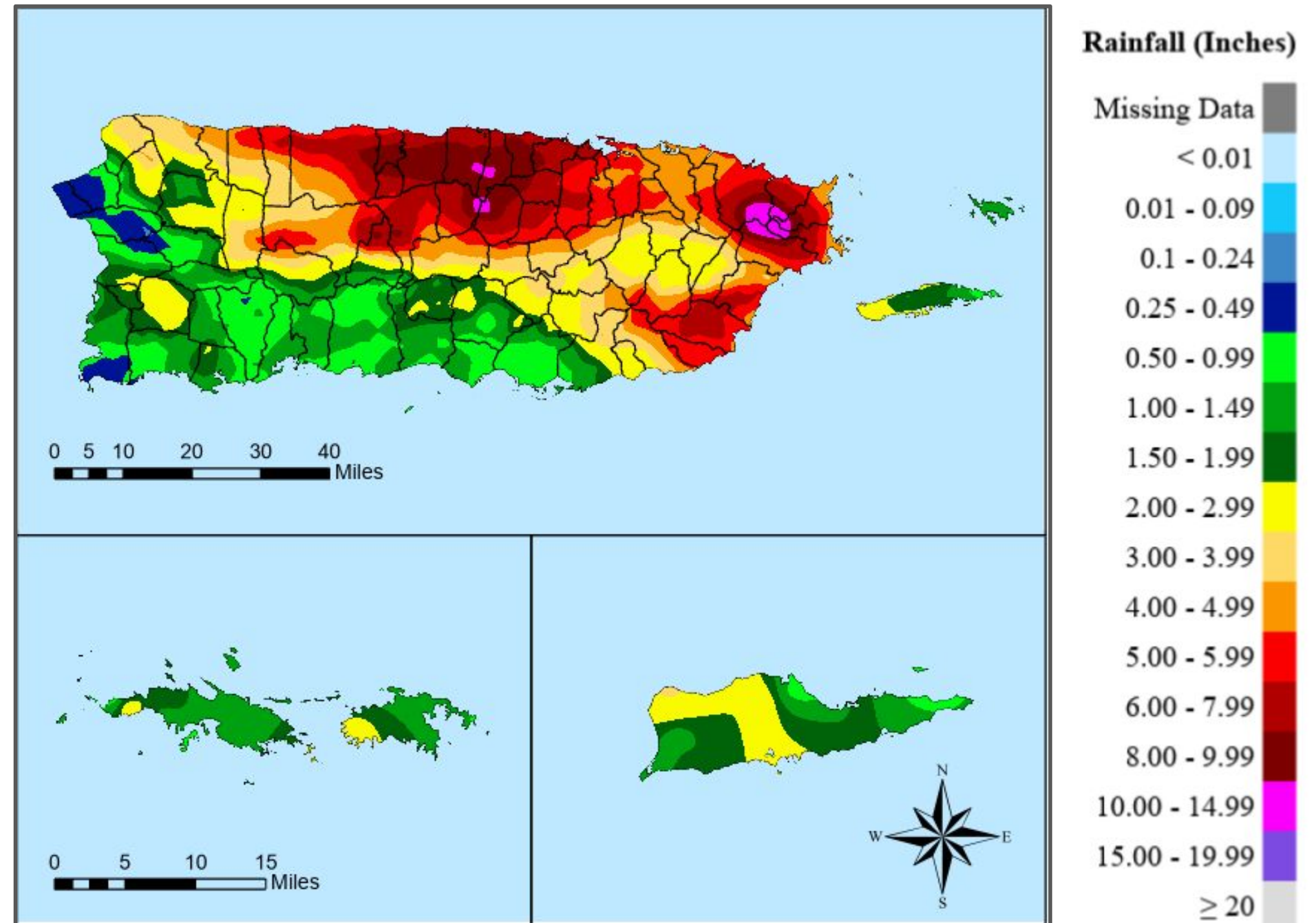


Image Captions:

Estimated Rainfall for the month of January. This map is courtesy of the NWS SJU GIS Team.





# Departure from Normal Rainfall

Estimated Departure from normal was obtained from [NWPS](#)

- Above-normal precipitation was observed across north-central and southeastern Puerto Rico, with the most significant positive departures in north-central areas, where values ranged from 4 to 8 inches above normal.
- Near-normal to mostly below-normal rainfall was recorded across western and southern Puerto Rico, with deficits generally ranging from -1 to -2 inches.

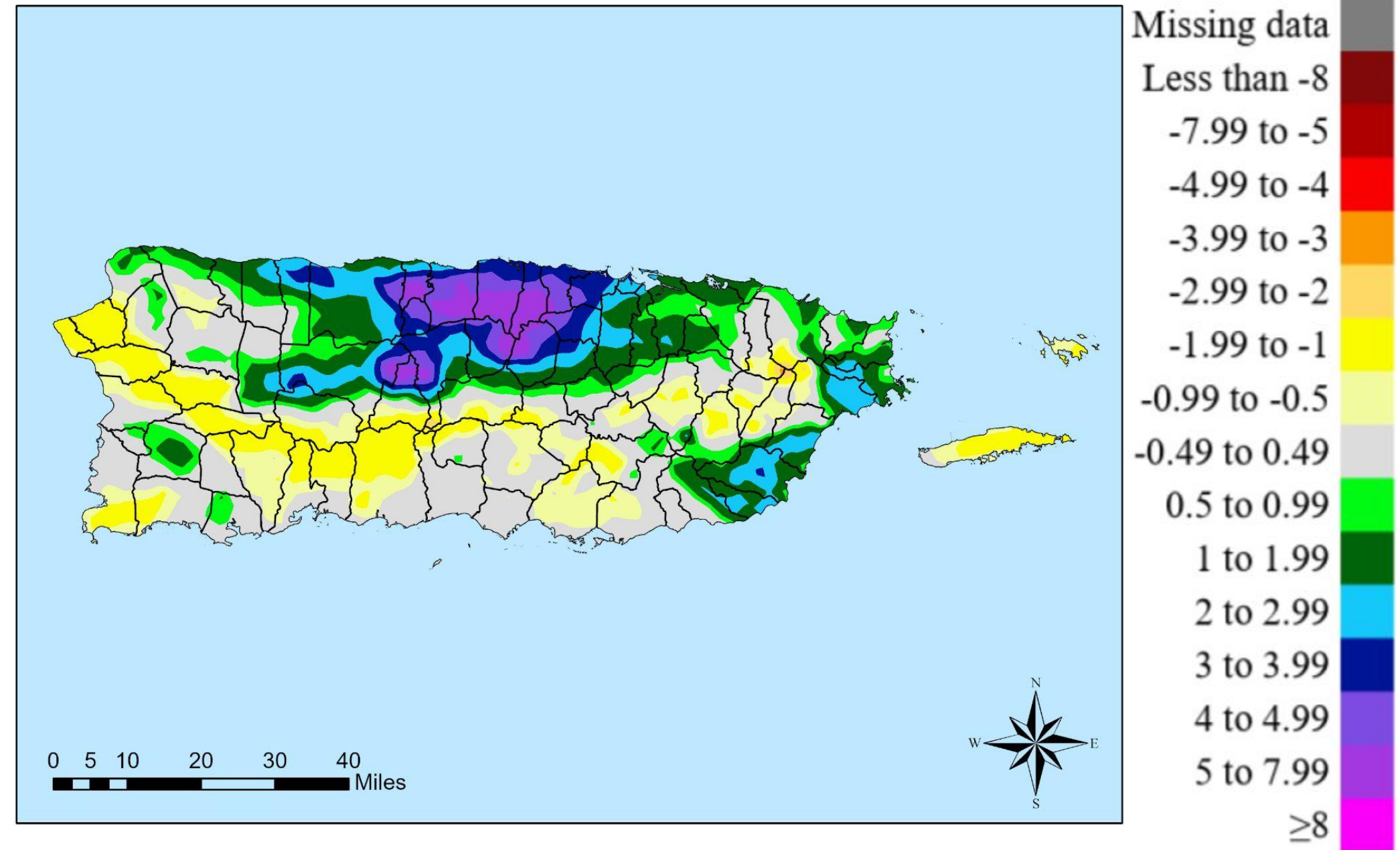


Image Captions:

Estimated Departure from Normal Rainfall for Puerto Rico during the month of January. This map is courtesy of the NWS SJU GIS Team.

\*NWPS does not provide rainfall departure from normal for the USVI.





# Hydrologic Conditions and Impacts

The latest soil monthly streamflow for Puerto Rico can be found on [WaterWatch](#)

- The 28-day average streamflow from the USGS river gauge network indicates most streamflows running near normal or just above normal, with below normal streams observed in San Juan and Cidra. For Reservoir levels, click [here](#).

Non-Routine Hydrologic Products Issued	Products issued for the month
Hydrologic Outlooks ( <a href="#">SJUESFSJU</a> )	0
Flood Watches ( <a href="#">SJUFFASJU</a> )	0
Flood Warnings ( <a href="#">SJUFLWSJU</a> )	0
Flash Flood Warnings ( <a href="#">SJUFFWSJU</a> )	0
Urban/Small Stream Flood Advisories ( <a href="#">SJUFLSSJU</a> )	7
Local Storm Reports (SJULSRSJU)	13

## Latest Monthly Average Streamflow from USGS

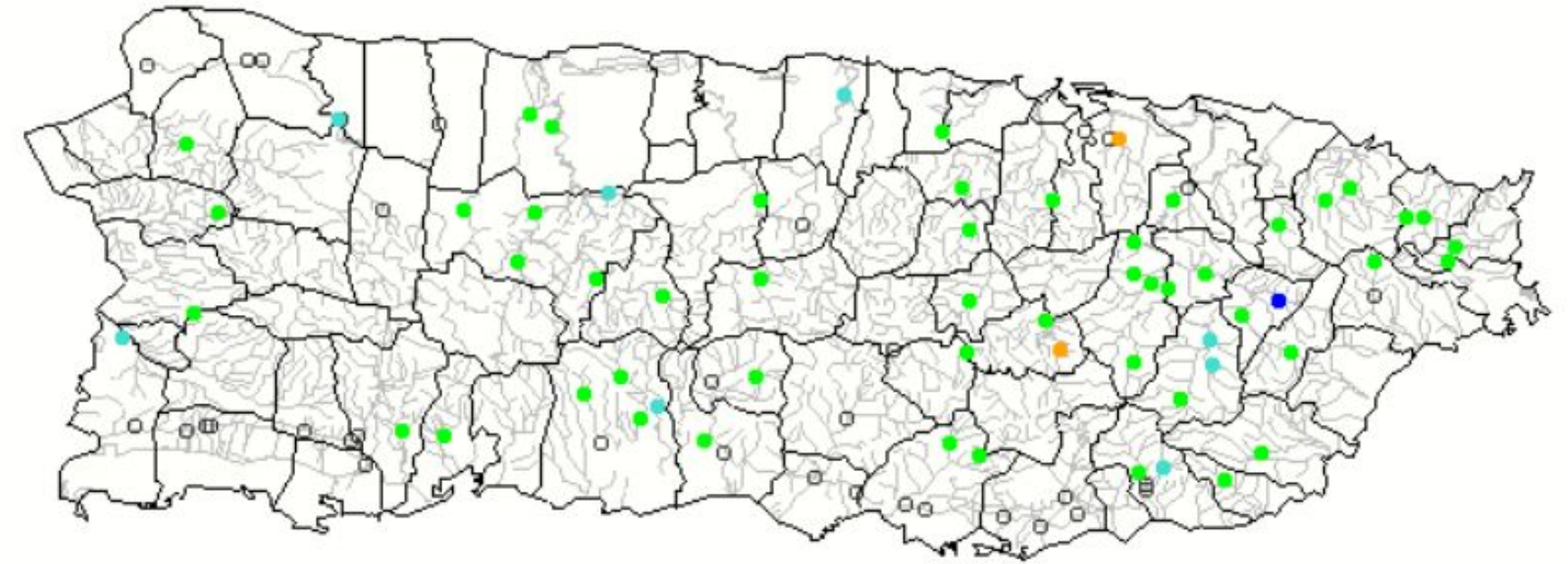


Image Caption: January 2025 compared to historical streamflows for Puerto Rico.

Explanation - Percentile classes							
<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: orange;">●</span>	<span style="color: green;">●</span>	<span style="color: cyan;">●</span>	<span style="color: blue;">●</span>	<span style="color: black;">●</span>	<span style="color: gray;">○</span>
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked





# Soil Saturation

The latest soil moisture information for Puerto Rico can be found on [PRAGWATER](#)

The latest data retrieved from PRAGWATER indicates that soils are drying out along the south, west, and east interior. Vegetation stress is also worsening along the southern plains and in the northwest.

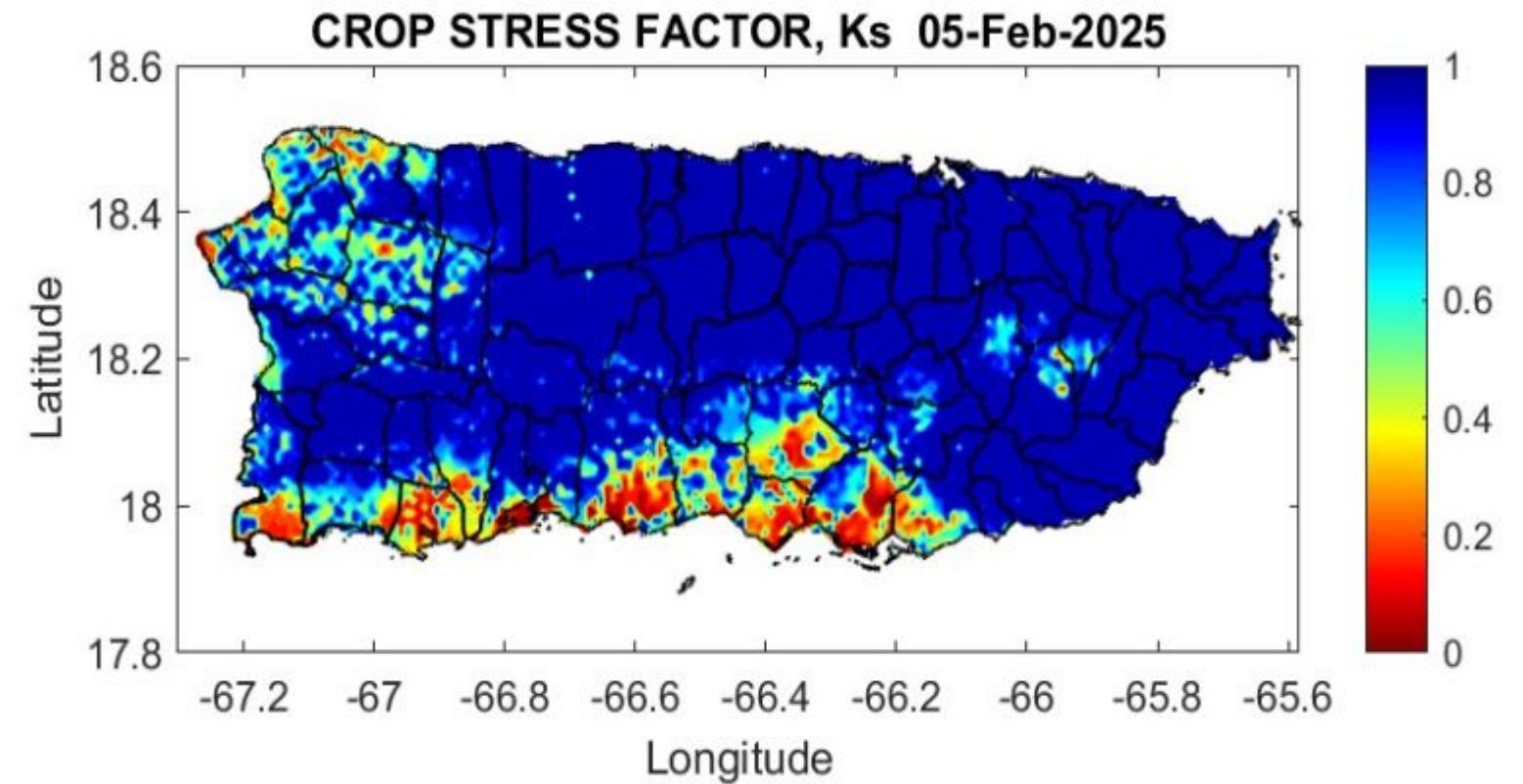
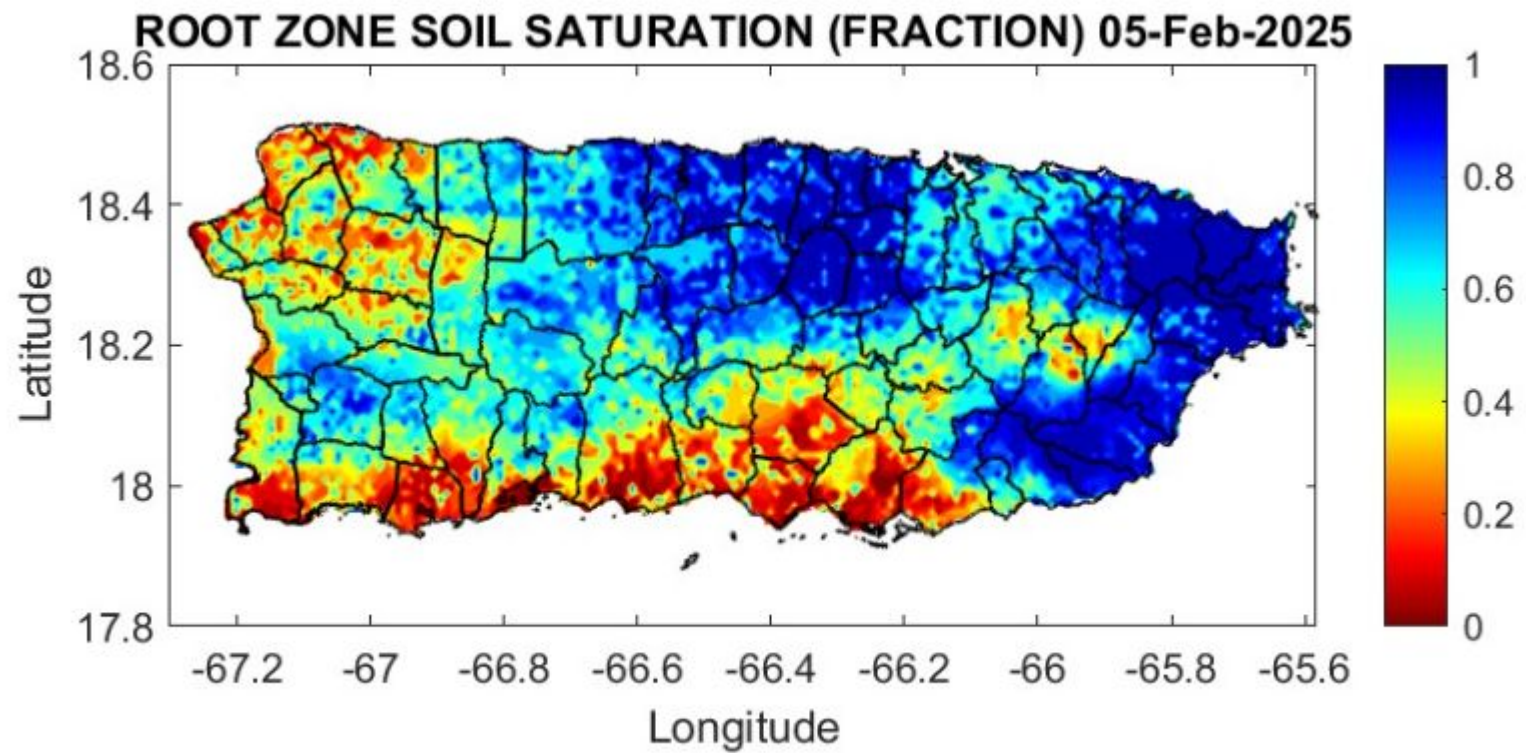


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high





# U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the Caribbean

**DROUGHT CONDITIONS :** No drought or dryness is currently observed in the islands.

## U.S. Drought Monitor



### U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 12/24/24

Image Caption: U.S. Drought Monitor valid 8am EDT Dec 24<sup>th</sup>.



# Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for the Caribbean

## Four Week Drought Monitor Class Change.

- No changes in drought has been observed in the last couple of months.

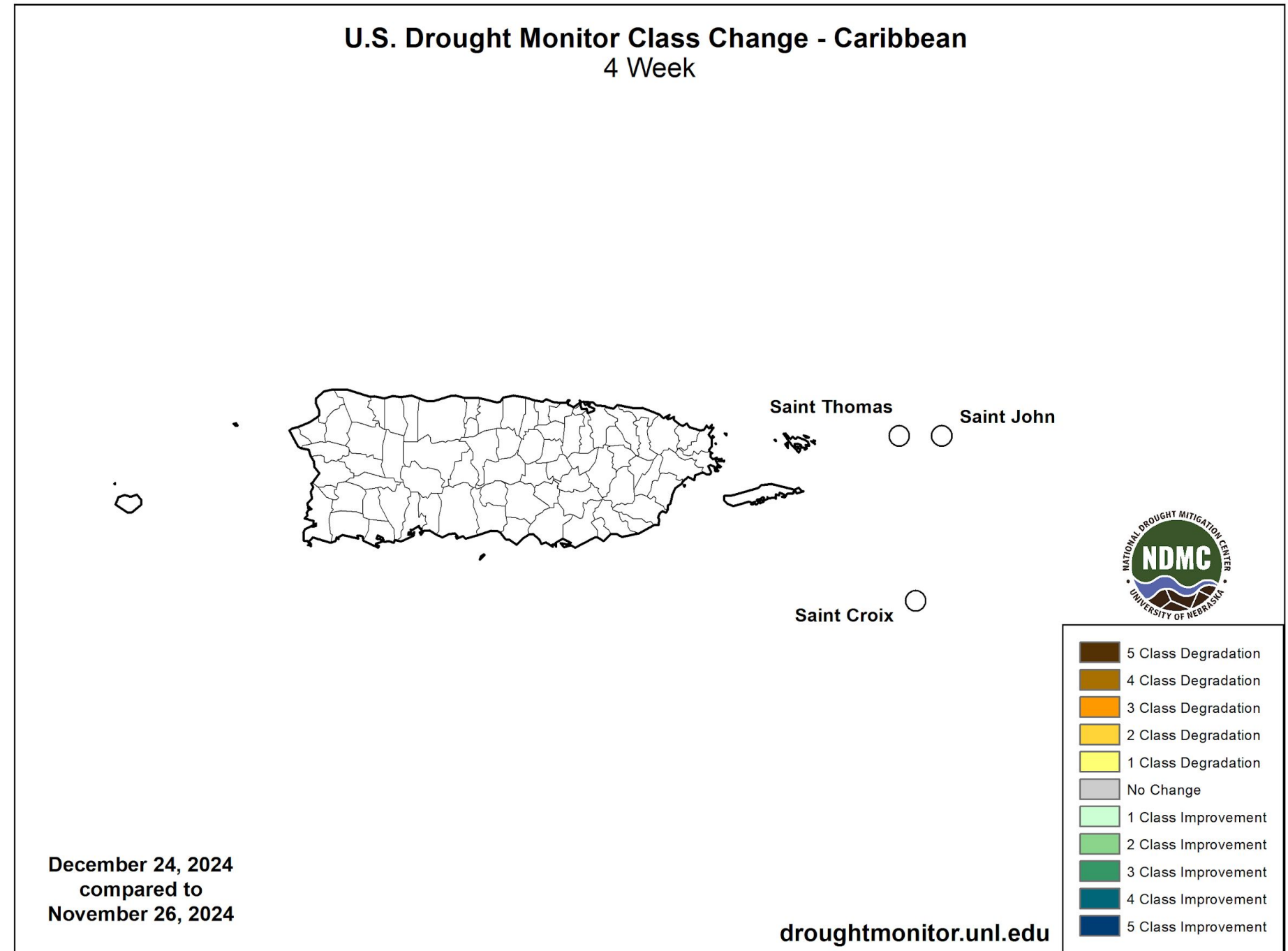


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT December 24<sup>th</sup>, 2024.





# Long-Range Precipitation Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- The **North American Multi-Model Ensemble (NMME)** shows a chance of 40-50% of near normal precipitation for the spring months (March-April-May) across the northeastern Caribbean.

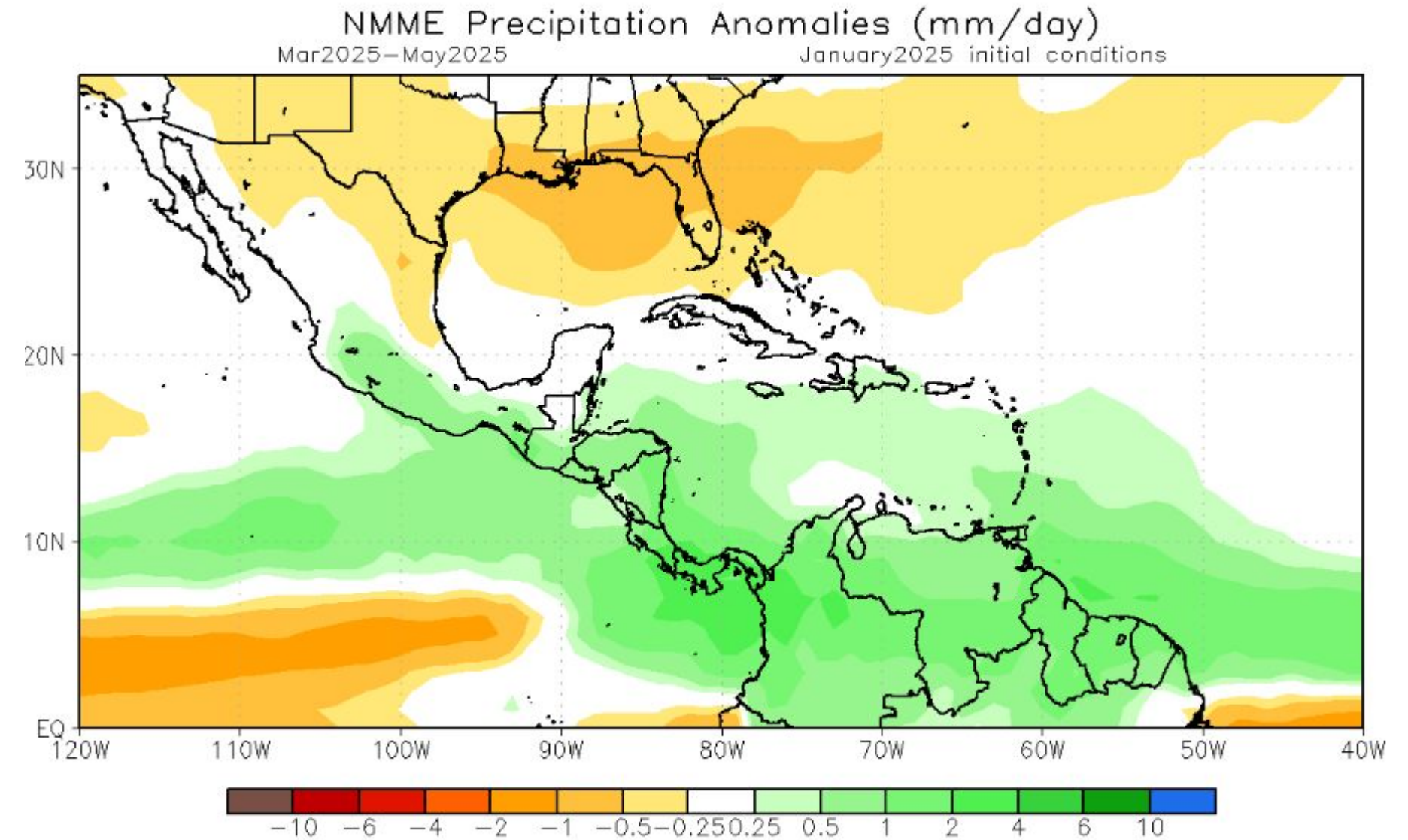


Image caption: NMME precipitation forecast issued January 2025. Valid March-April-May 2025.



# Long-Range Temperature Outlook

The latest three-months temperature outlook can be found on the [CPC homepage](#)

- Based on the **North American Multi-Model Ensemble (NMME)**, there is a  $\geq 70\%$  chance of observing above normal temperature for the period of March-April-May 2025. The temperatures are forecast to be nearly  $0.5\text{-}1^\circ\text{C}$  ( $0.9\text{-}1.8^\circ\text{F}$ ) above normal.

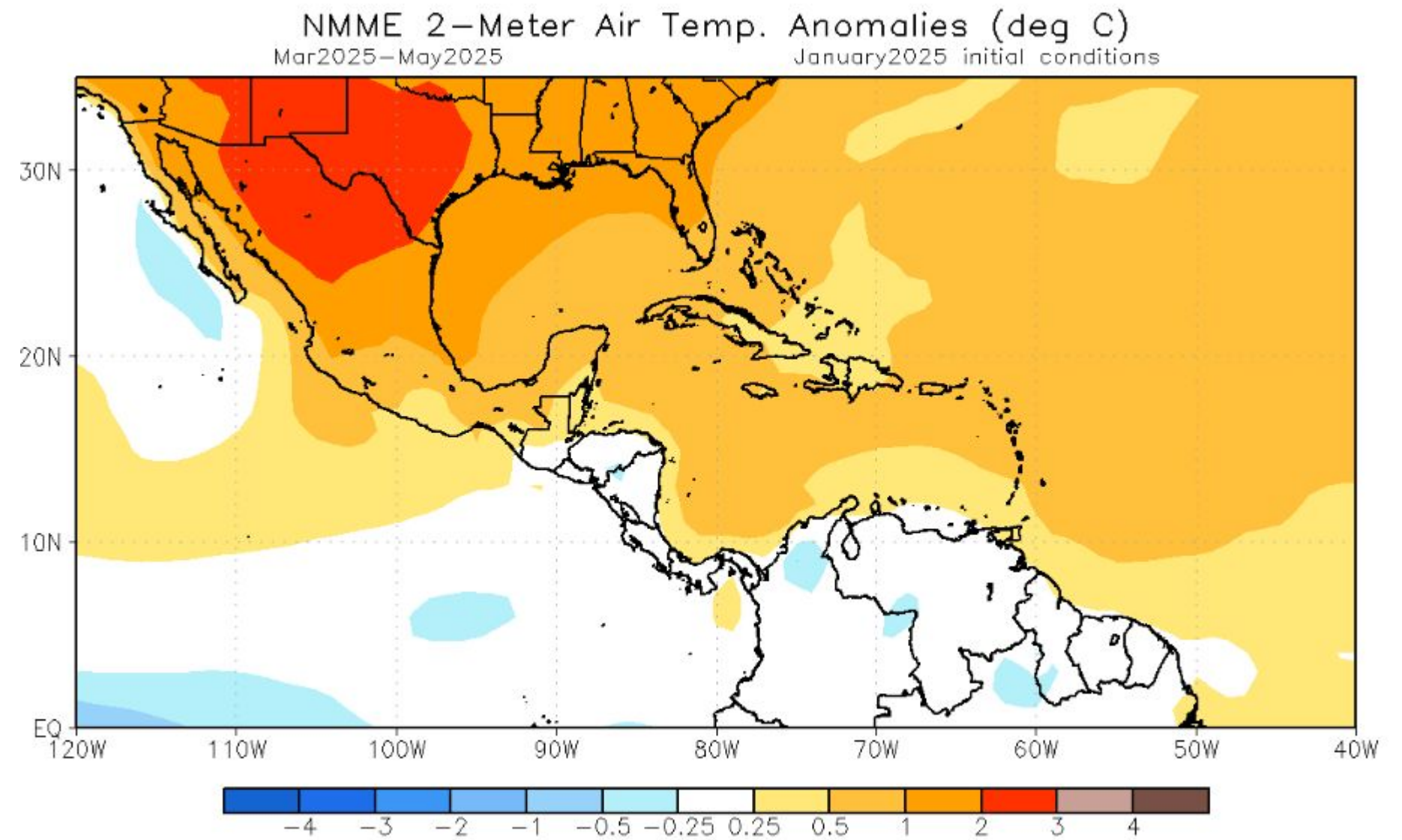


Image caption: NMME temperature forecast issued January 2025. Valid March-April-May 2025.





# Long Range Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

**Seasonal (3-Month) Drought Outlook for January 31,  
2025–April 30, 2025**

- Based on the expected conditions, no drought is expected to develop in Puerto Rico in the upcoming three months.



**Drought Is Predicted To...**



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 01/31/25

Image Caption: U.S. Seasonal Drought Outlook Valid for January 31<sup>st</sup> to April 30<sup>th</sup>, 2025.