



# **The North American Monsoon System: Recent Evolution and Current Status**

**Update prepared by  
Climate Prediction Center / NCEP  
21 July 2008**



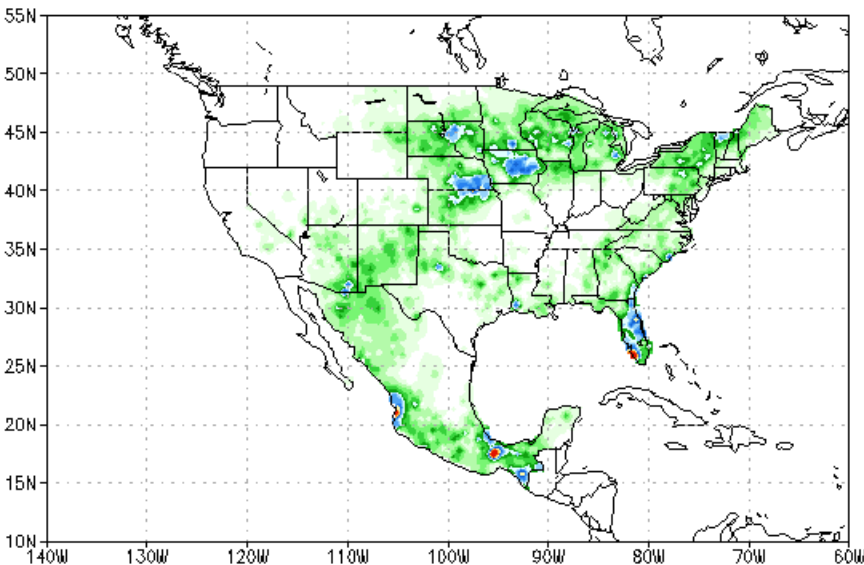
# Outline

- **Recent Evolution and Current Conditions**
- **Summary**
- **Climatology**



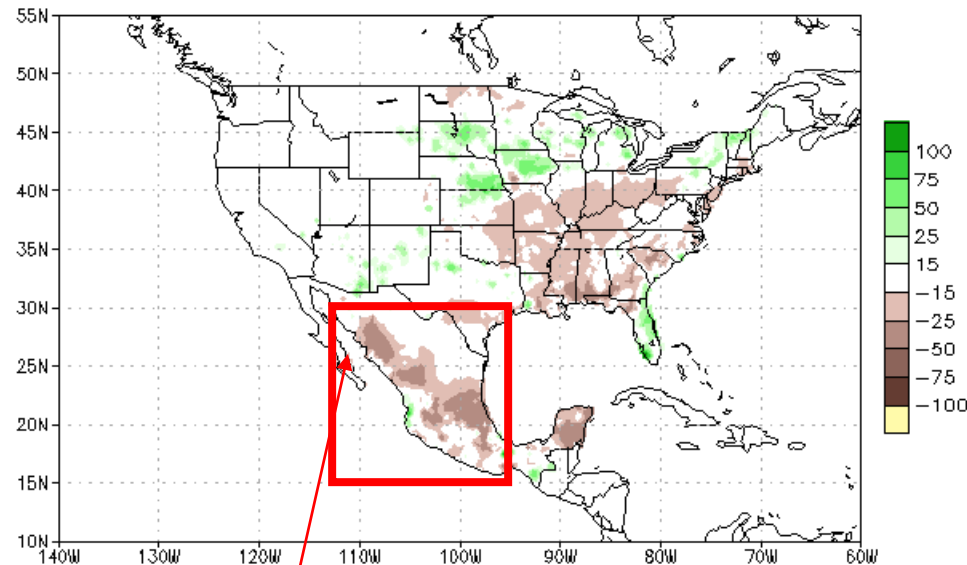
# Rainfall Patterns: Last 7 Days

7-day accumulation ending 20080720



Data Source: CPC Gridded Precipitation Analysis

7-day accumulation anomalies ending 20080720



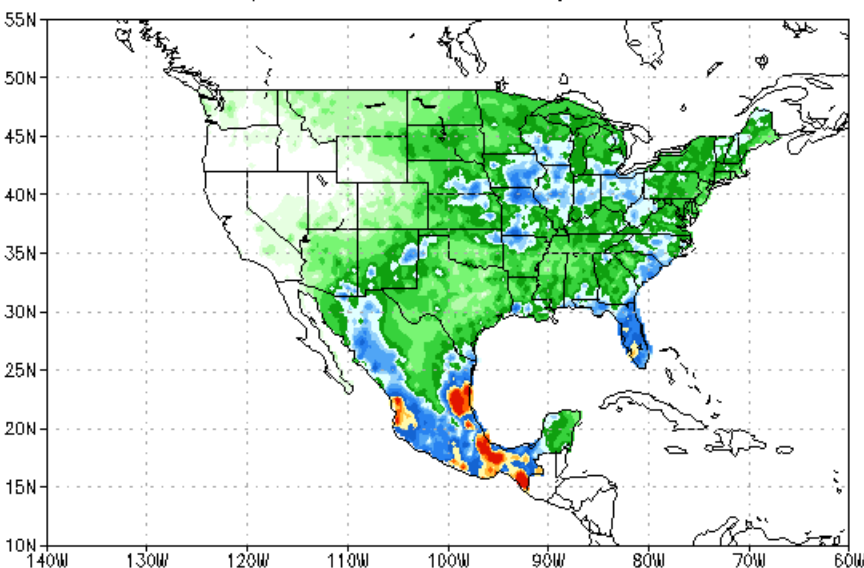
Data Source: CPC Gridded Precipitation Analysis  
Climatology (1979–1995)

**Below-normal rainfall was observed over almost entire Mexico during the past week.**



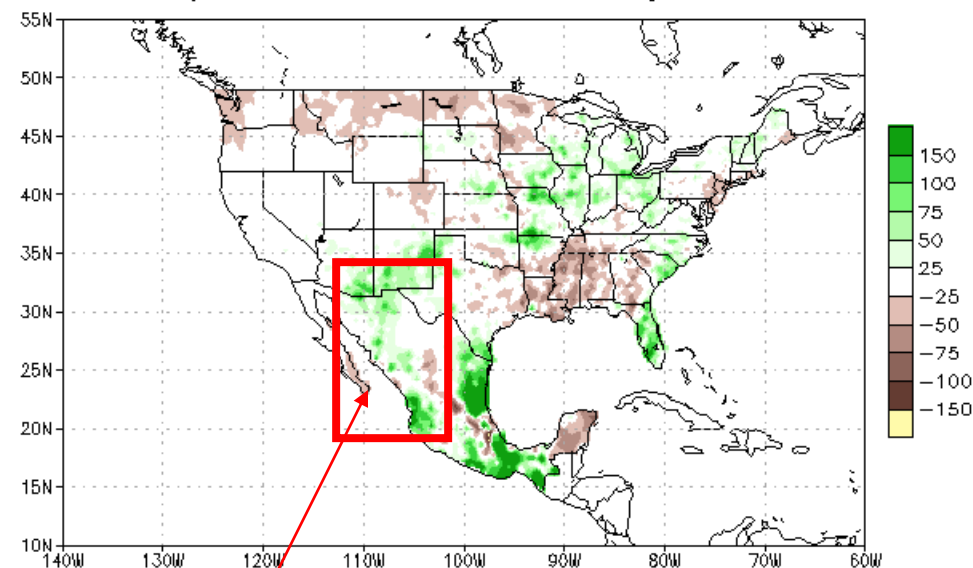
# Rainfall Patterns: Last 30 Days

30-day accumulation ending 20080720



Data Source: CPC Gridded Precipitation Analysis

30-day accumulation anomalies ending 20080720

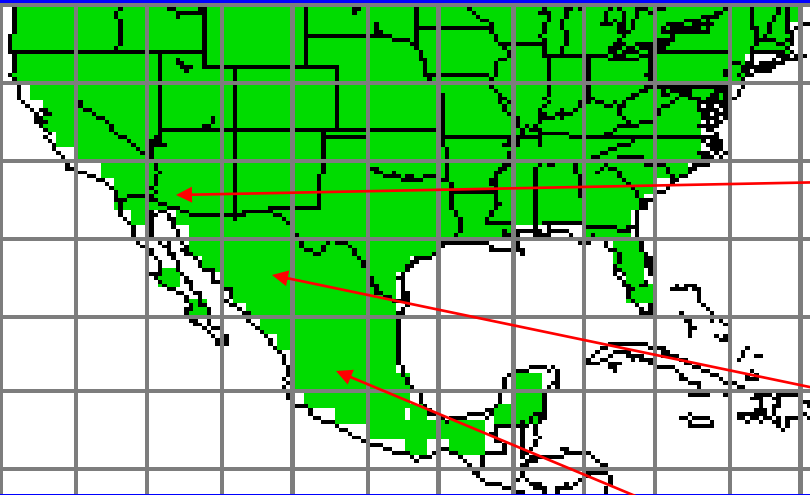


Data Source: CPC Gridded Precipitation Analysis  
Climatology (1979–1995)

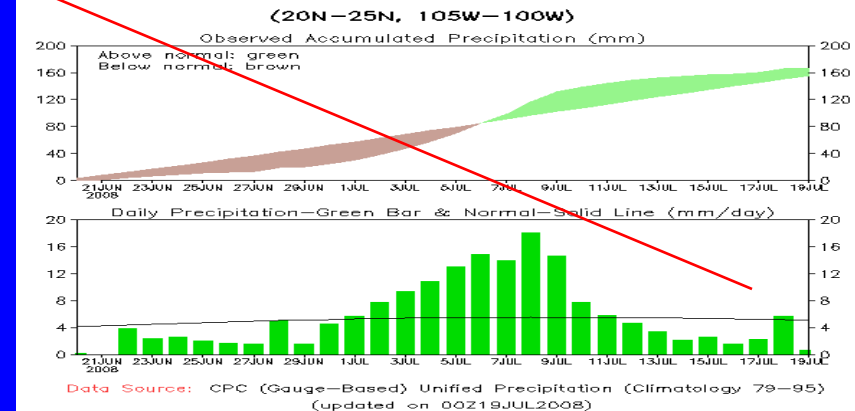
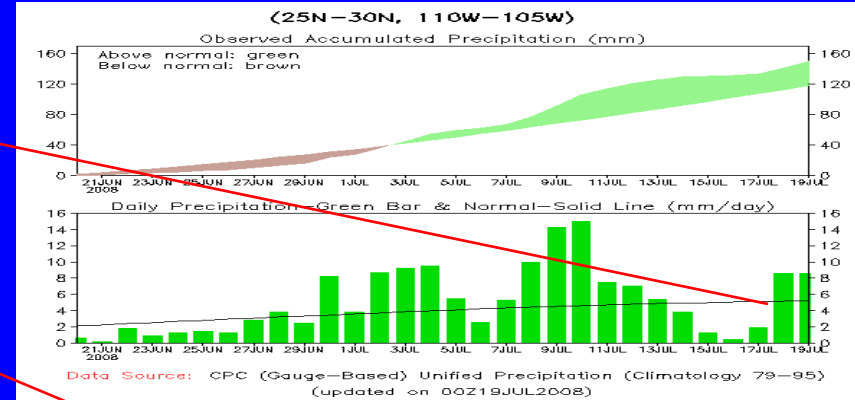
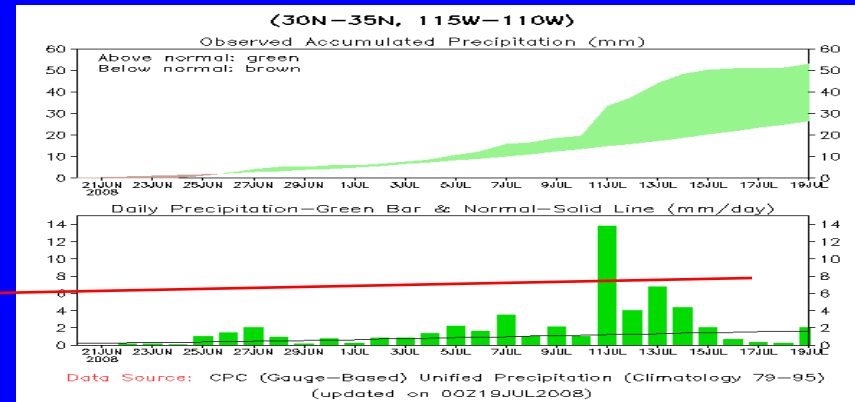
Above –normal precipitation has been observed over most of the NAM region during the past 30 days.



# Recent Evolution: Rainfall



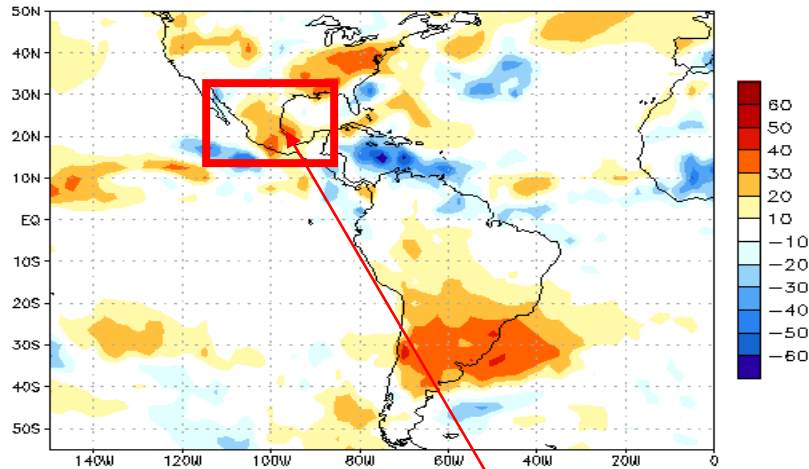
Inactive monsoon has been observed during the past week





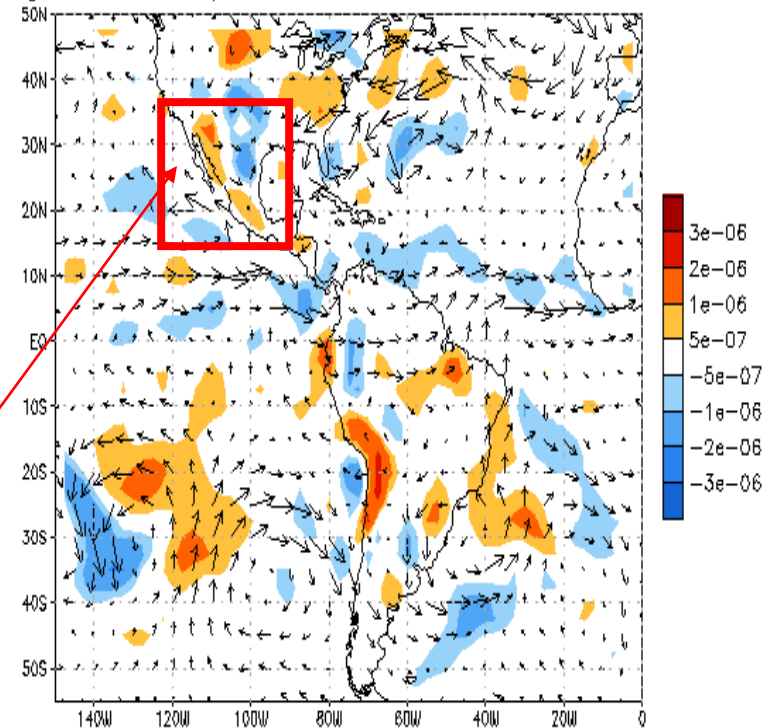
# Atmospheric Circulation & OLR Last 7 days

OLR Anomalies 15 JUL 2008 to 19 JUL 2008



Data Source: NESDIS/ORA

Divergence of Water Vapor Flux Anomalies 12 JUL 2008 - 18 JUL 2008



Data Source: NCEP/CDAS - Climatology (1979-1995)

- During the past week, positive OLR anomalies and water vapor divergence were seen over the NAM region, consistent with below-normal rainfall in the area.

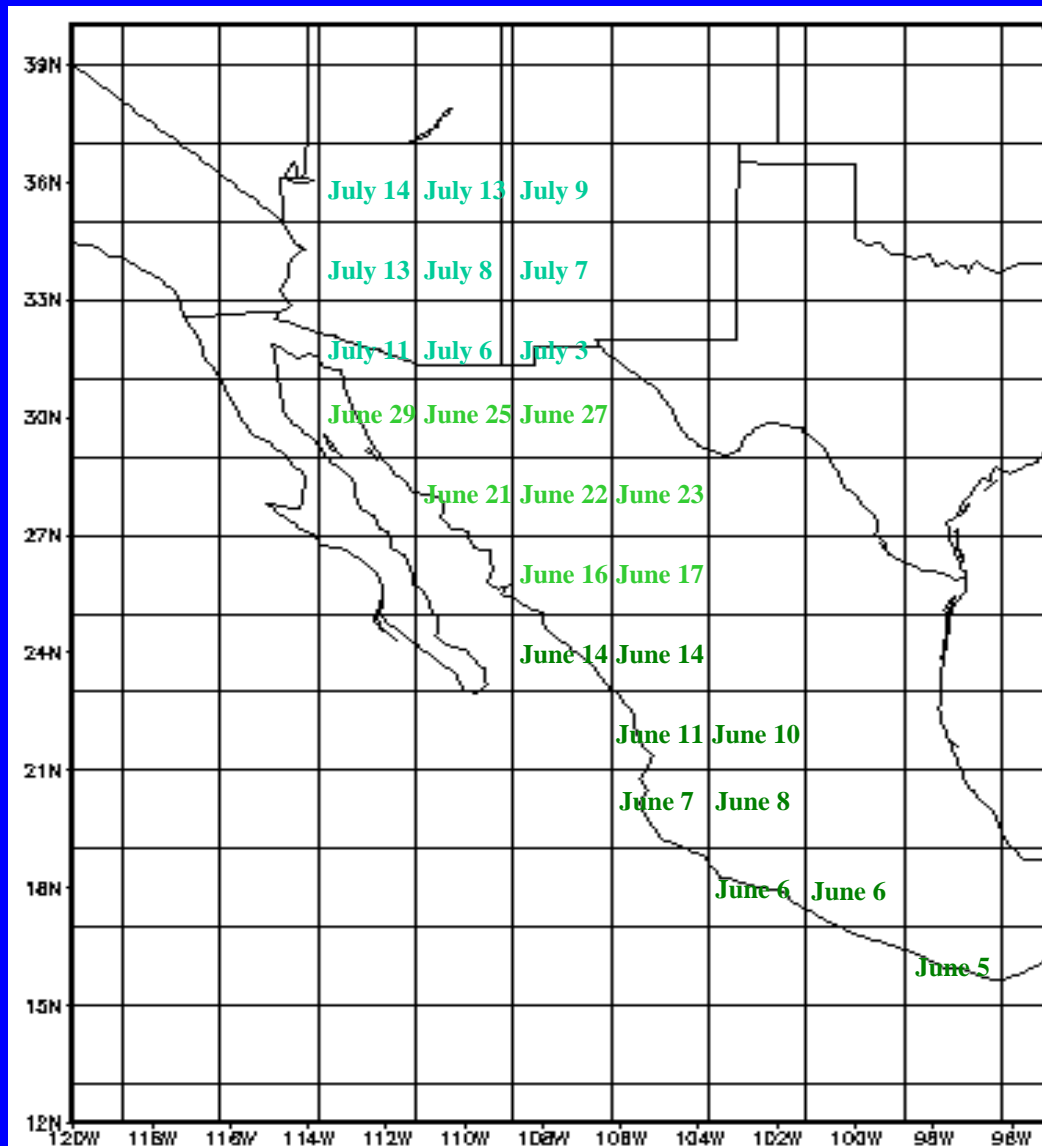


# Summary

- During the past week, below-normal precipitations were observed over most of the NAM domain, except for southwest U.S.



# Climatology MONSOON ONSET



Higgins, R. W., Y. Chen and A. V. Douglas, 1999:  
Interannual Variability of the North American Warm  
Season Precipitation Regime. *J. Clim.*, 17, 653-680





# Precipitation Climatology

Pentad mean Precip. (mm/day): 1–5 Jan

