



The North American Monsoon: NAME Forecast Forum Products

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NCAR



Outline:

- Overview of Website
- Forecast Forum Products
- Review of 2010
- Emerging Synthesis
- Plans for 2011

Climate Prediction Center - - Windows Internet Explorer

http://www.cpc.ncep.noaa.gov/products/Global_Monsoons/American_Monsoons/NAME/index.html

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Forecast Forum

- Zonal Accam
- Spatial Distribution
- Data Information

Archive

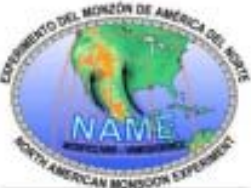
- 2008

ACRONYMS

USA.GOV

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The NAME Forecast Forum



The purpose of the NAME Forecast Forum (NFF) is to provide, for the North American Monsoon research and applications communities, an accessible, online forum, for the posting, distribution, monitoring and synthesis of intra-seasonal and seasonal precipitation forecasts of the North American Monsoon. This purpose will be achieved through completion of the following activities:

- Monitoring key indices of monsoon behavior
- Monitoring forecast skill of intra-seasonal to seasonal predictions of the North American Monsoon (NAM)
- Make publicly available, a range of operational and experimental NAM intra-seasonal and seasonal precipitation forecast products
- Linking NAM monitoring activities with other monsoon monitoring activities such as that currently under development by NOAA Climate Prediction Center and the North American Monsoon climate research community
- Linking NAM monitoring and forecasting activities to the societal applications community that is cultivating improved uses and communication of monsoon information

As an initial implementation, spatial maps and regionalized indices (averages) of warm season precipitation over the North American Monsoon region have been created from selected operational seasonal forecast models and real-time monitoring products. The regions used in the NFF were developed synthesized from published climatological analyses (i.e. regionalization studies) of historical precipitation data and are also similar to forecast zones used during 2004 North American Monsoon Experiment (see <http://www.eol.ucar.edu/projects/name/>). Over time additional monitoring products will be added.

For a full description of the rationale and strategy of the NFF please refer to the complete

Internet 100%

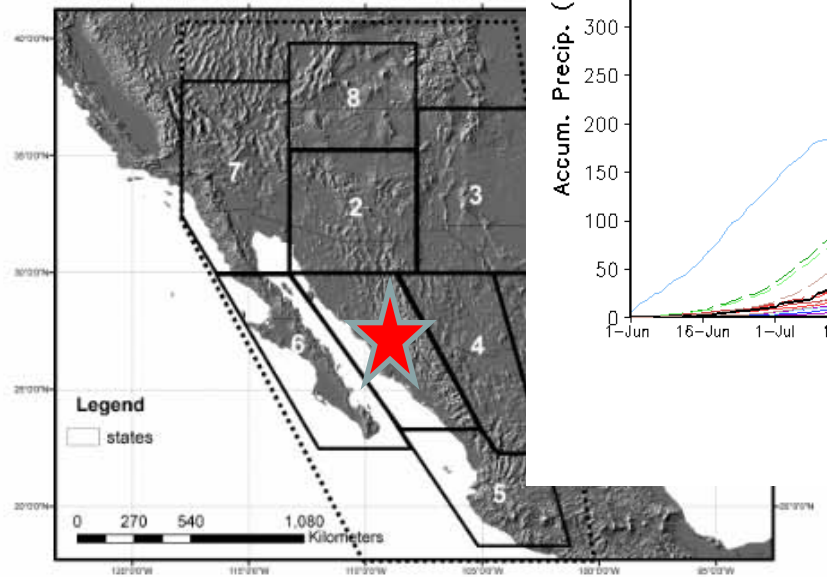
- CPC Search
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- American Monsoons
- Forecast Forum
- Zonal Accum
 - Spatial Distribution
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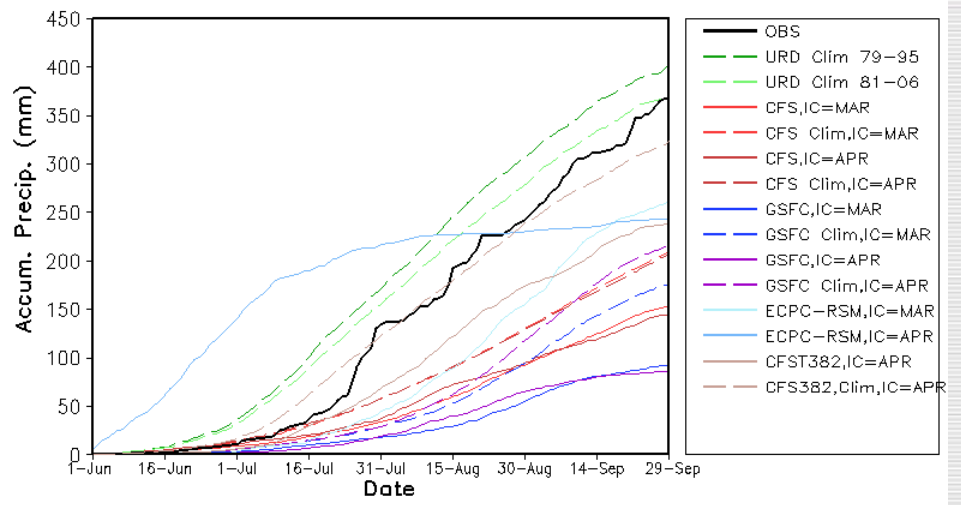
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Click on each zone to display the grid averaged time series

North American Monsoon sub-re



2010 NAME Forecast Forum Zone 1 Accumulated Precipitation



NOTES:

National Weather Service
Climate Prediction

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- Forecast Forum
- Zonal Accum
- Spatial
- Distribution
- Data Information
- ACRONYMS

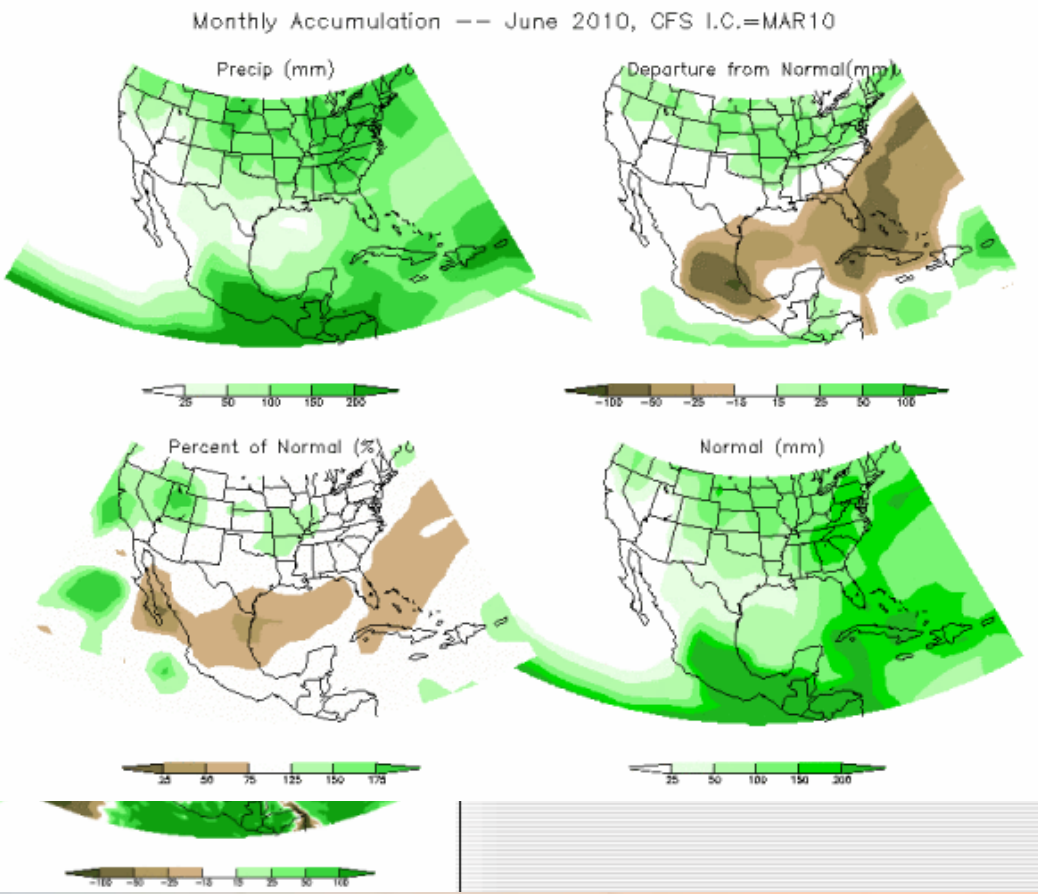
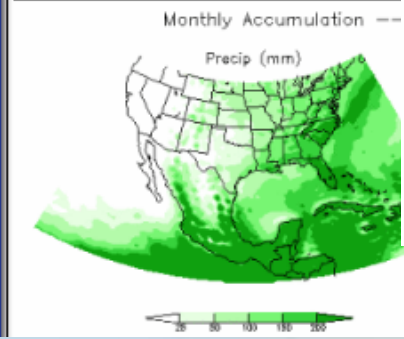


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Precip

Move cursor over product parameter

June 2010				
Observation	CFS Model Oper		NASA Mod	
URD	IC-MAR	IC-APR	IC-MAR	IC-
	CFS Model T382			
		IC-APR		
August 2010				
Observation	CFS Model Oper		NASA Mod	
URD	IC-MAR	IC-APR	IC-MAR	IC-
	CFS Model T382			
		IC-APR		
Observation		C		
URD		IC-MAR		
Observation		C		
		IC-		

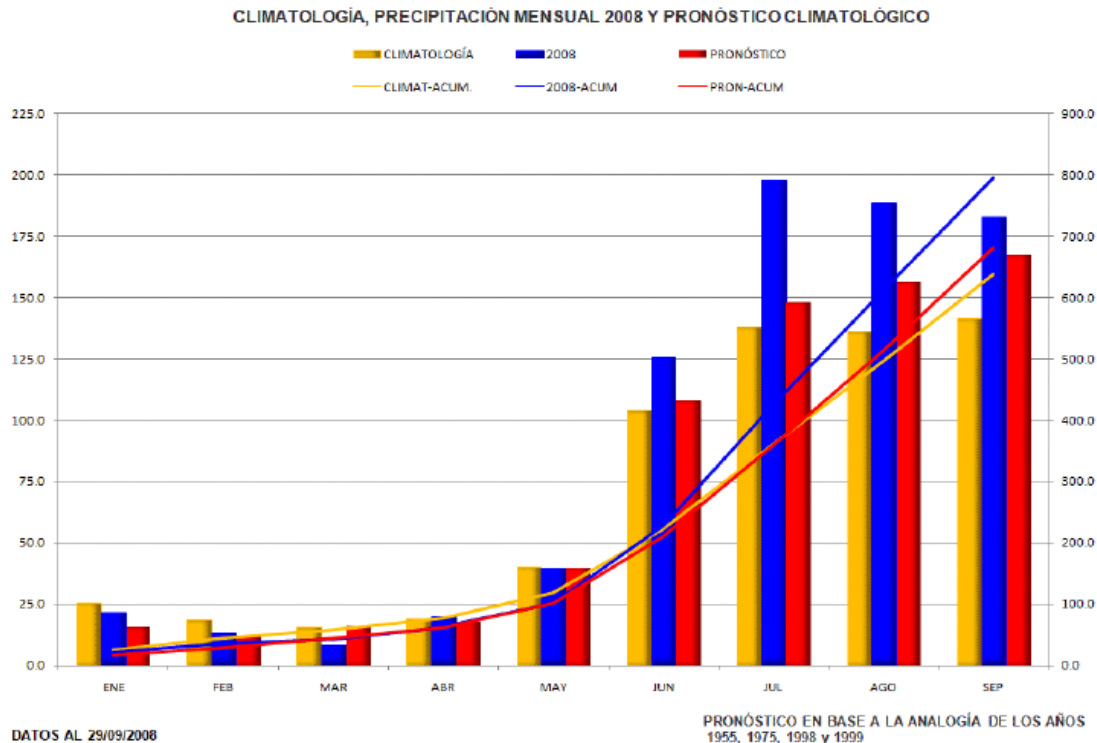


Forecast Forum Products:



2008 N. American Monsoon Review: Consolidated Forecasts (Mexico-SMN)

SMN 2008 Monthly Forecasts Yellow=Climo Blue=Observed Red=Forecast

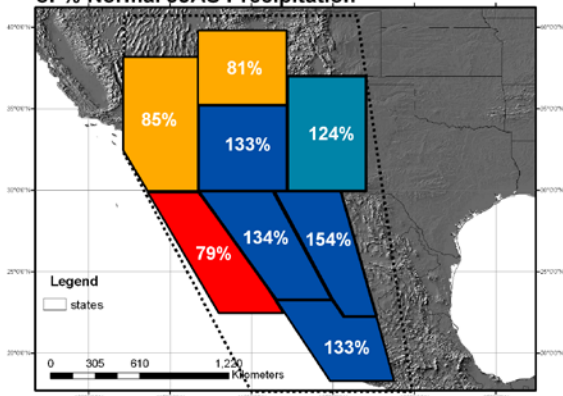


- Monthly forecasts Mexican rainfall from SMN trended towards above normal precip. beginning in Jun and continuing through the summer (red), though not as great as observed (blue)

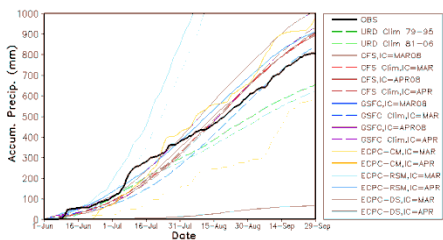


2008 N. American Monsoon Review: NAME Forecast Forum Products

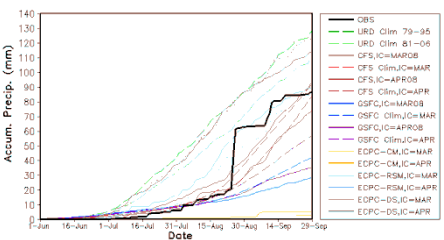
2008: Sub-region Observed of % Normal JJAS Precipitation



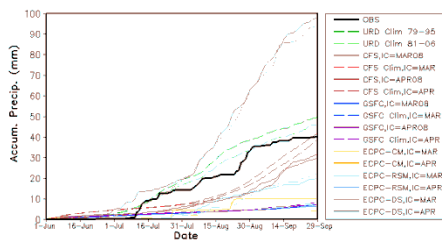
2008 NAME Forecast Forum Zone 5
Accumulated Precipitation



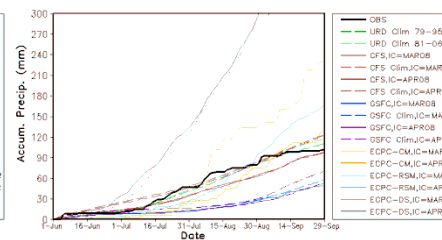
2008 NAME Forecast Forum Zone 6
Accumulated Precipitation



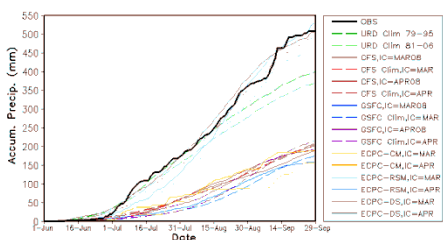
2008 NAME Forecast Forum Zone 7
Accumulated Precipitation



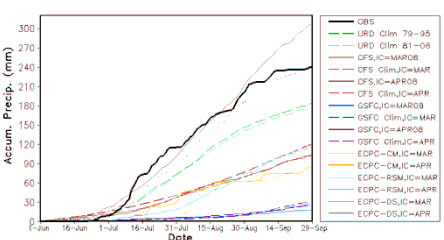
2008 NAME Forecast Forum Zone 8
Accumulated Precipitation



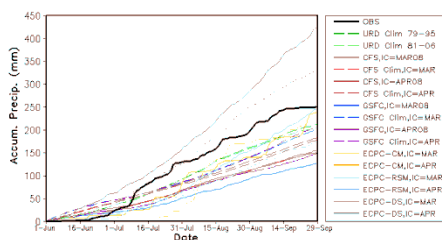
2008 NAME Forecast Forum Zone 1
Accumulated Precipitation



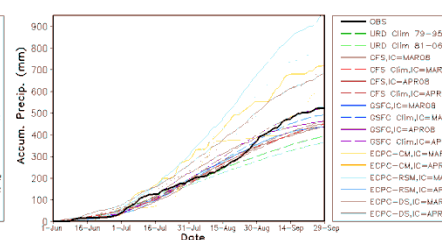
2008 NAME Forecast Forum Zone 2
Accumulated Precipitation



2008 NAME Forecast Forum Zone 3
Accumulated Precipitation



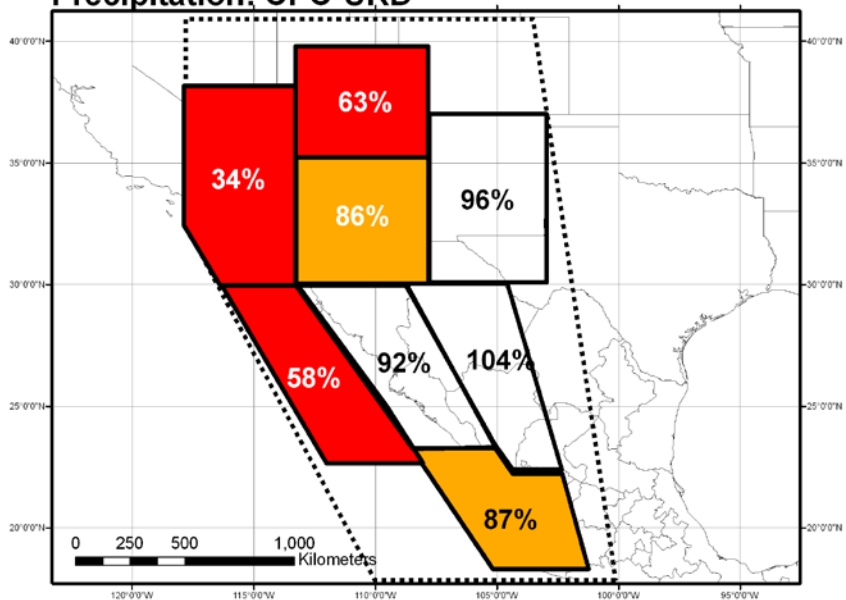
2008 NAME Forecast Forum Zone 4
Accumulated Precipitation



- Regionally-averaged accumulated rainfall

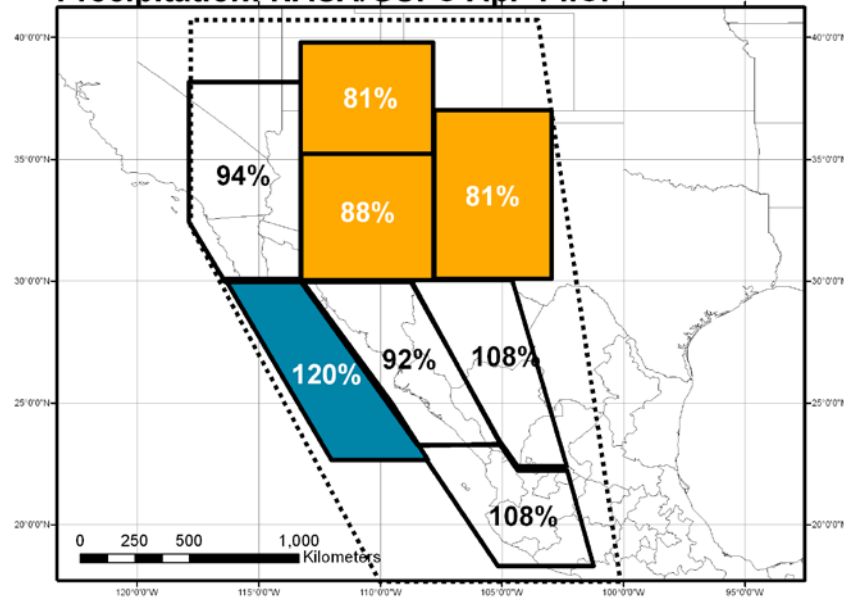
Sub-region observations of % Normal JJAS

Precipitation: CPC-URD



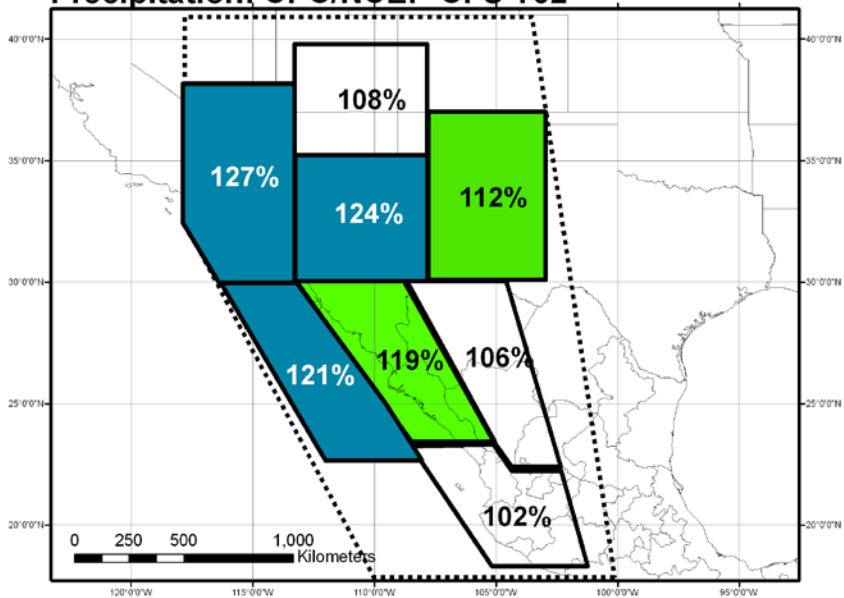
Sub-region forecasts of % Normal JJAS

Precipitation: NASA/GSFC Apr-1 I.C.



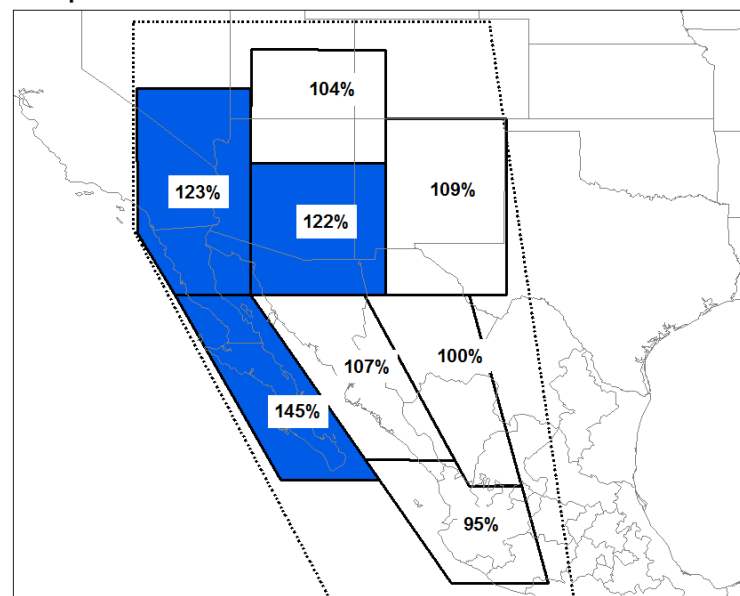
Sub-region forecasts of % Normal JJAS

Precipitation: CPC/NCEP-CFS T62



Sub-region forecasts of % normal JJAS

Precipitation: CPC/NCEP CFS-T382



All models: May 1, 2009 initializations...I think!

Review of 2010:



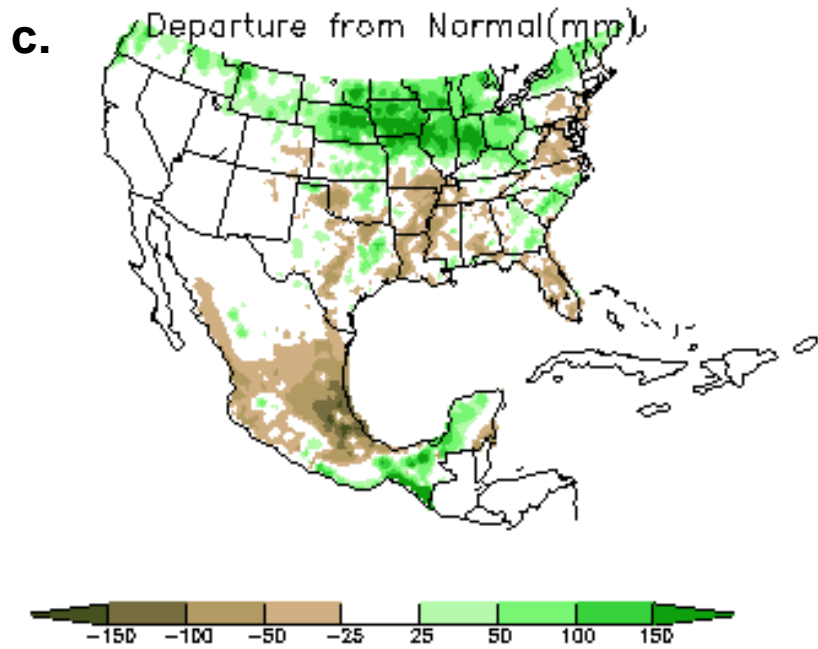
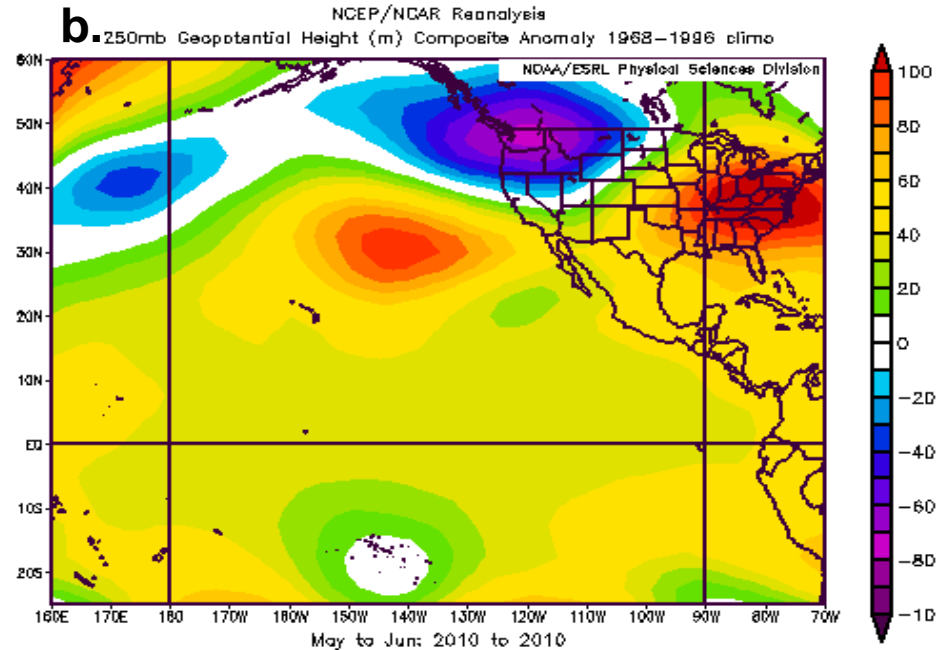
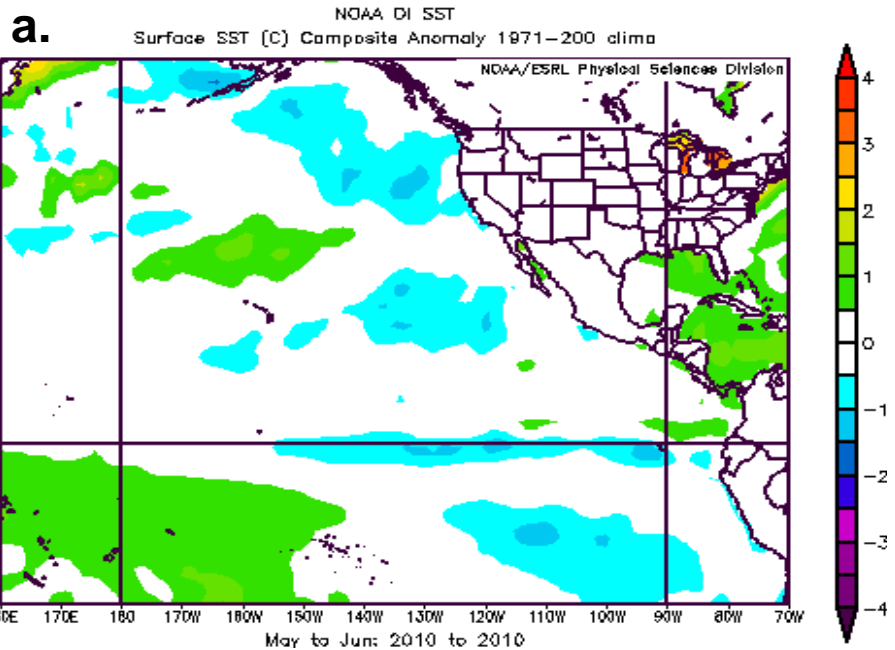
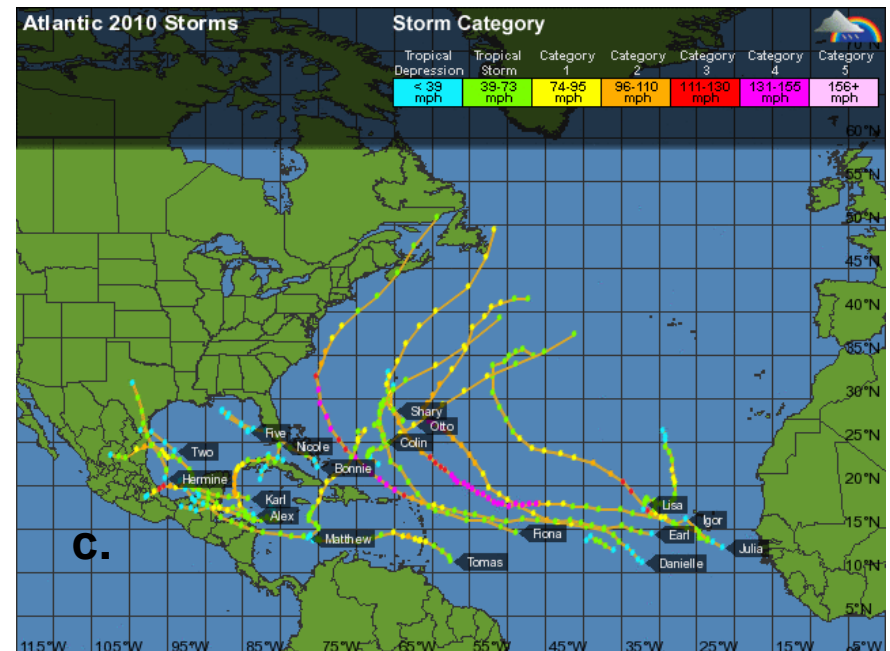
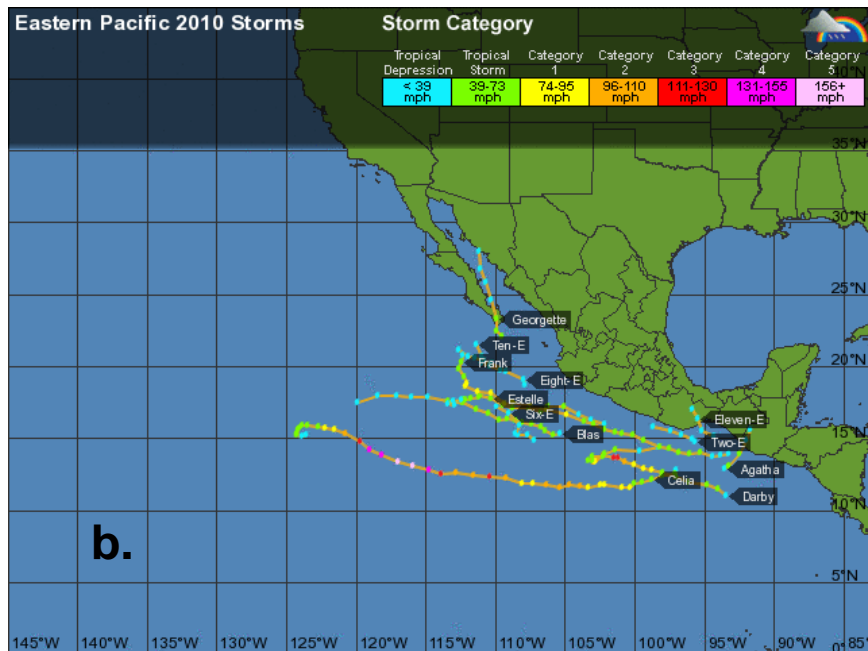
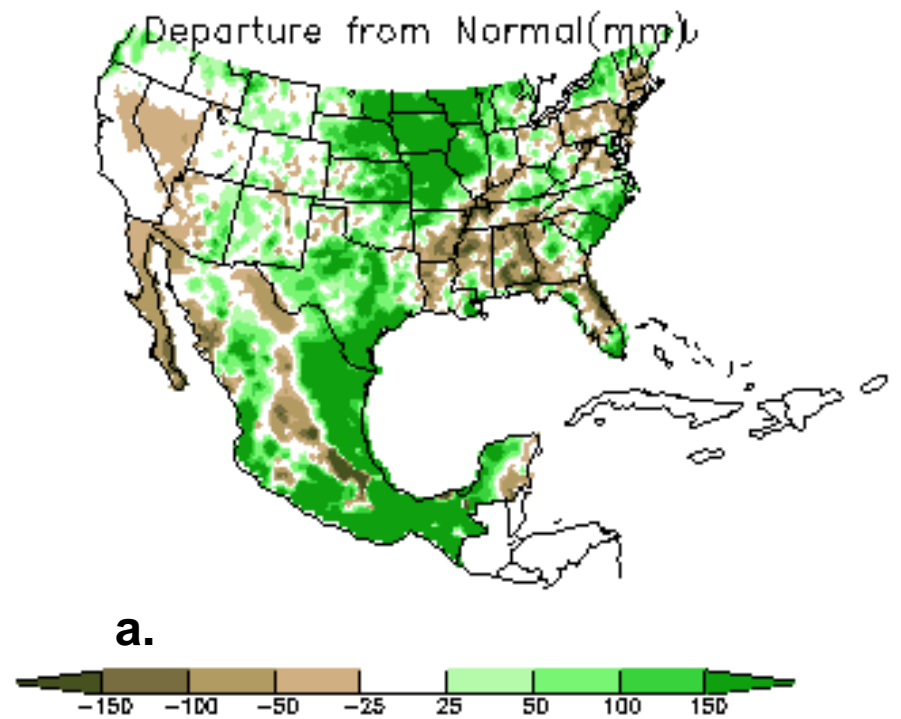
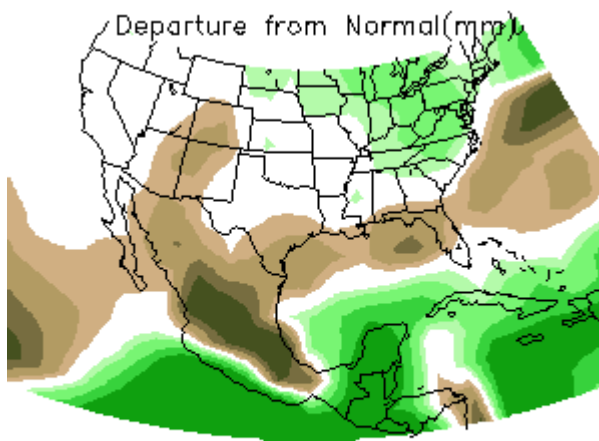


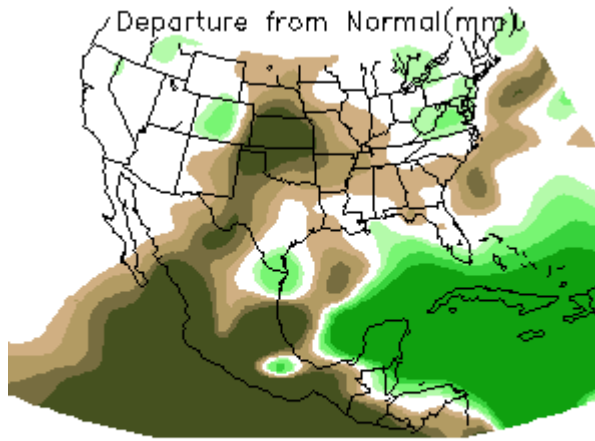
Figure 1. a) May-June NOAA-OI Sea surface temperature anomalies, b) May-Jun NCEP/NCAR Reanalysis 250mb height anomalies and c) NOAA CPC June precipitation anomalies. Panels a) and b) generated from the NOAA PSD website.

Figure 2. a) NOAA CPC June-July-Aug-Sep precipitation anomalies and tracks of 2010 b) Eastern Pacific and c) Atlantic named tropical disturbances. Panels b) and c) were obtained from the Weather Underground website.

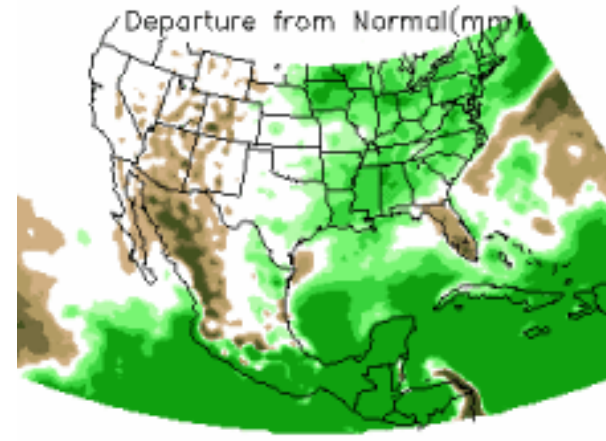




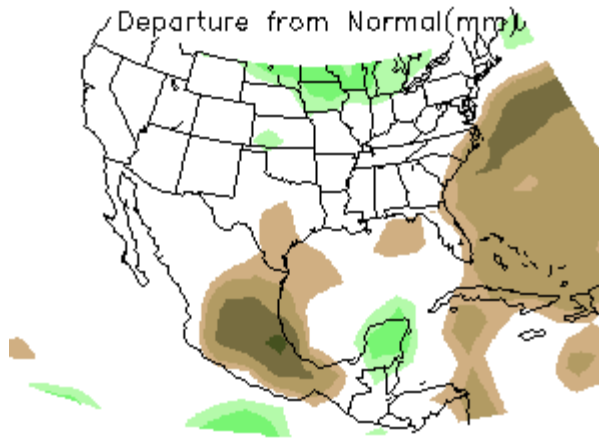
NCEP CFS JJAS



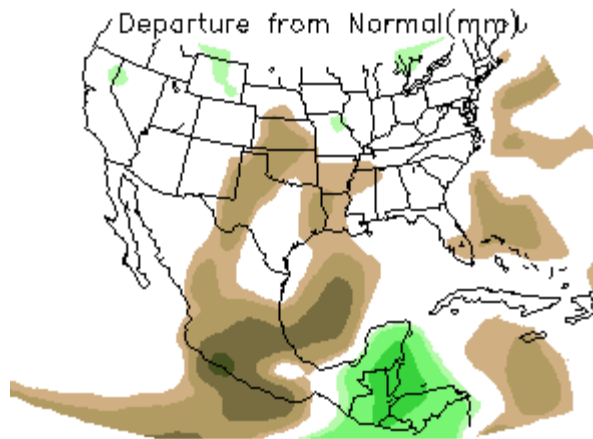
NASA GSFC JJAS



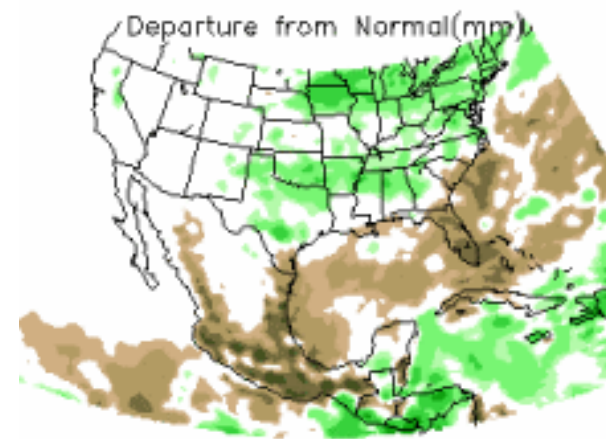
NCEP CFS-382 JJAS



NCEP CFS June



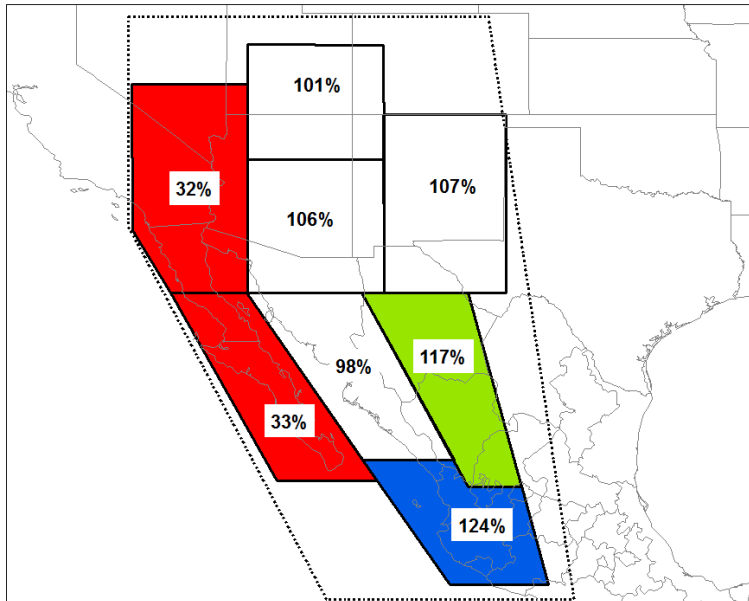
NASA GSFC June



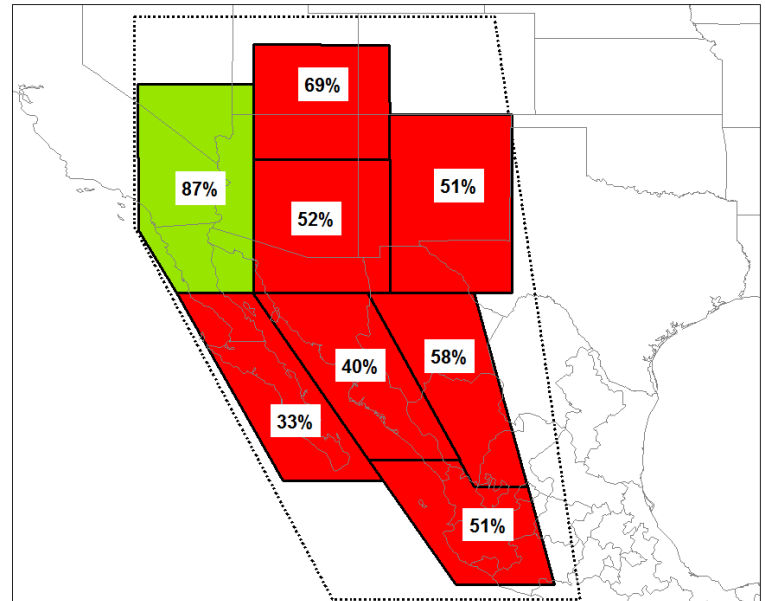
NCEP CFS-382 June

Figure 3. Top row: June-July-Aug-Sept forecasted precipitation anomalies from the operational NOAA CFS, NASA GSFC and experimental NCEP CFS models. Bottom row: Same as top row but for forecasted June precipitation anomalies only.

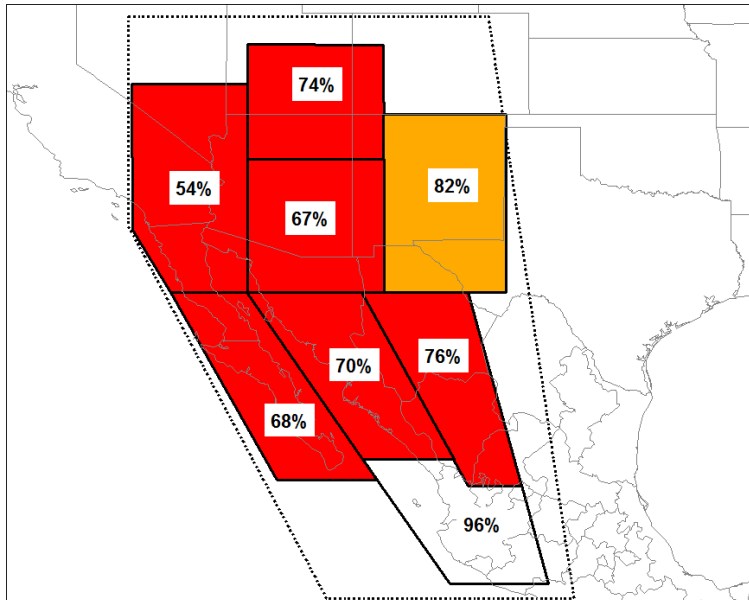
Sub-region observations of % normal JJAS - 2010
 Precipitation: CPC/NCEP URD Analysis



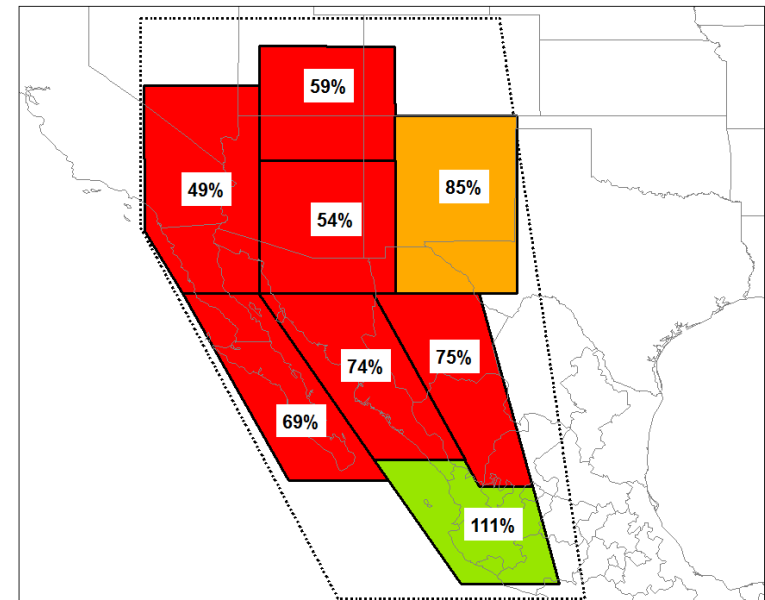
Sub-region forecasts of % normal JJAS - 2010
 Precipitation: NASA-GSFC



Sub-region forecasts of % normal JJAS - 2010
 Precipitation: CPC/NCEP CFS-T62



Sub-region forecasts of % normal JJAS - 2010
 Precipitation: CPC/NCEP CFS-T382



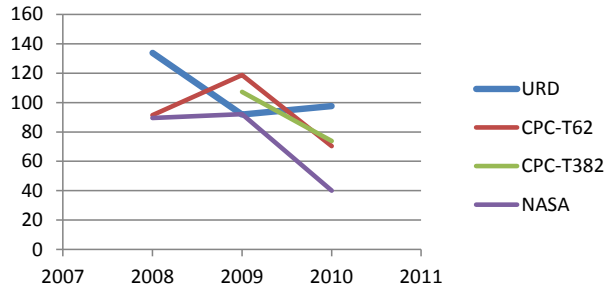
All models: May 1, 2010 initializations...I think!

Emerging Synthesis:

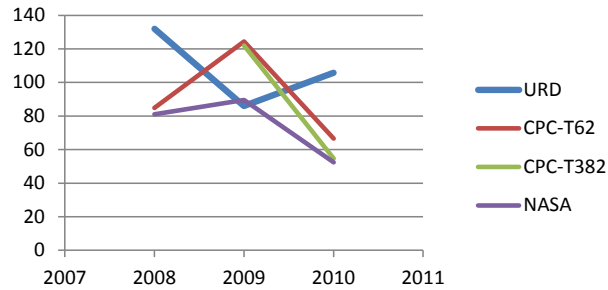


N. American Monsoon Forecast Form Regional Forecasts (% of Normal) 2008-2010

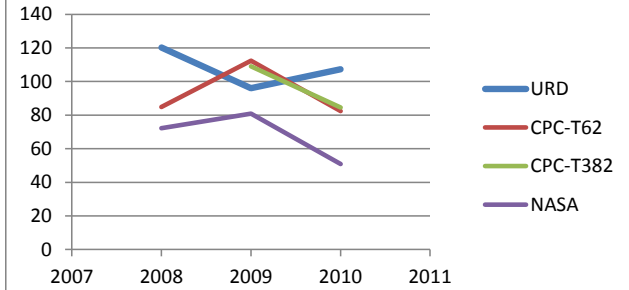
NFF-Zone 1



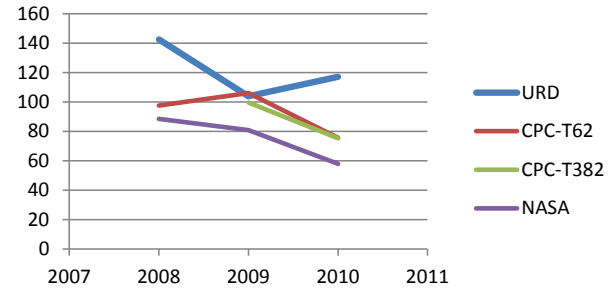
NFF-Zone 2



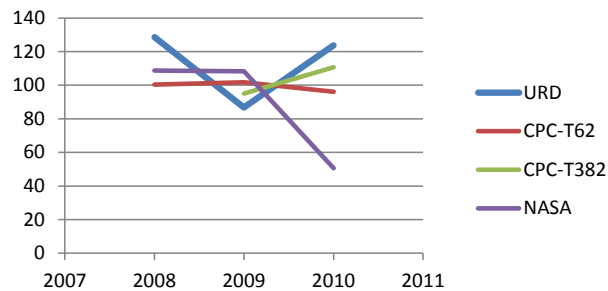
NFF-Zone 3



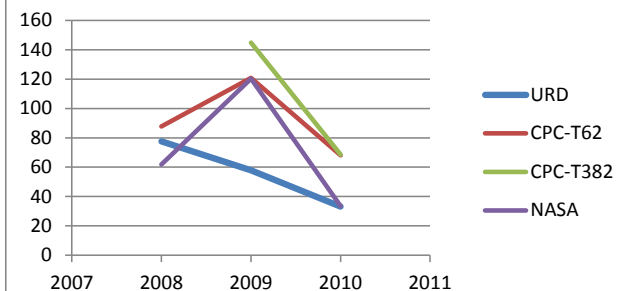
NFF-Zone 4



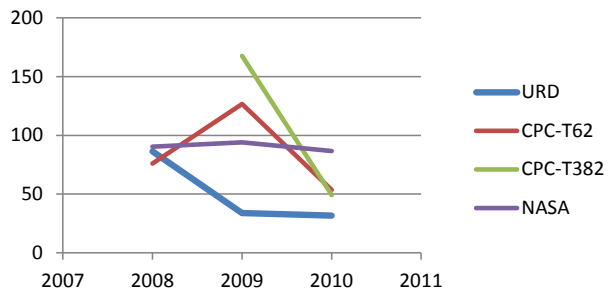
NFF-Zone 5



NFF-Zone 6



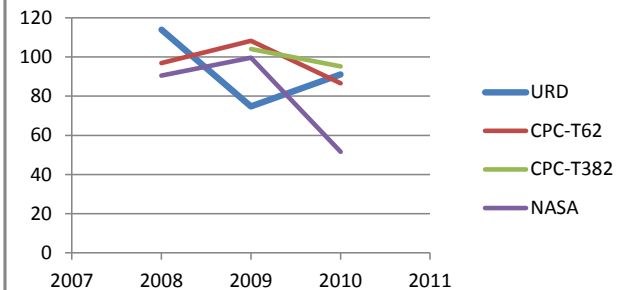
NFF-Zone 7



NFF-Zone 8



NFF-NAM



N. American Monsoon Forecast Forum: Plans for 2011:

- Daily Tracking:
 - Precipitation
 - 925 mb Winds

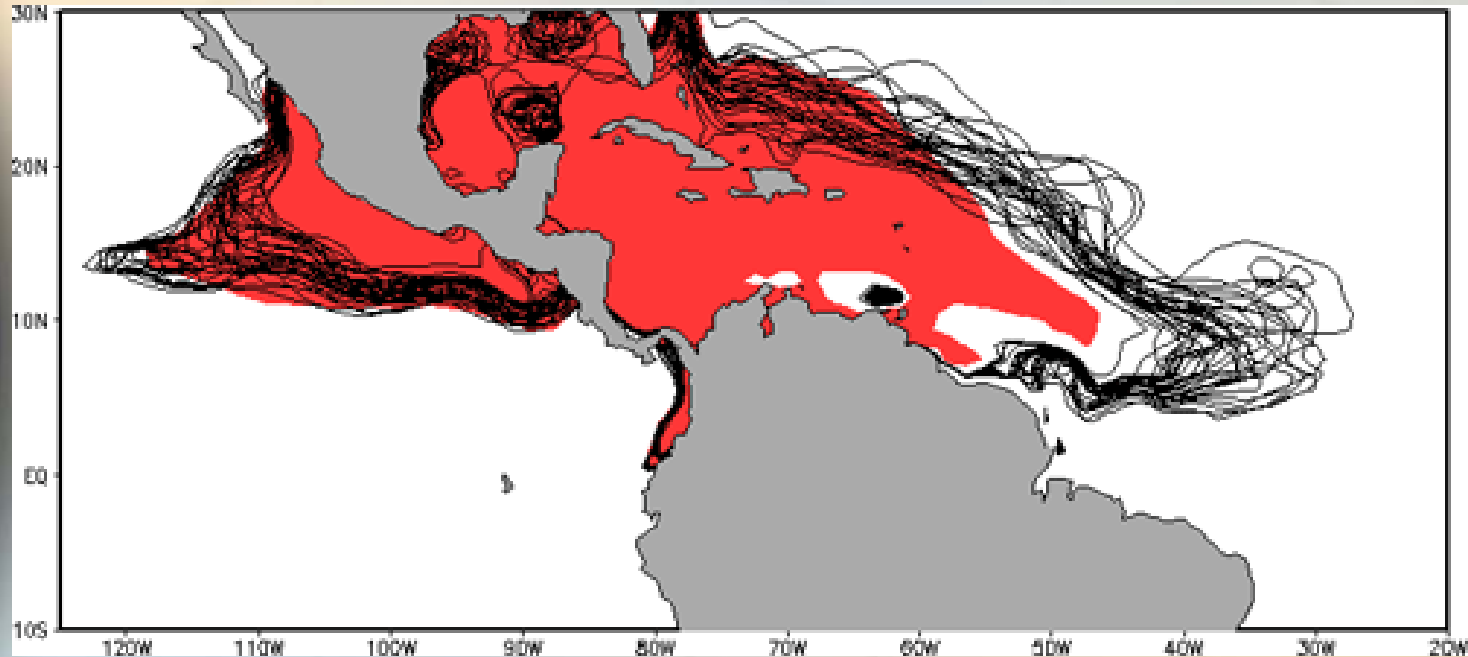
- Monthly Means:
 - Precipitation
 - 2m Air Temperature
 - 925, 850 and 200 mb Winds

- Participating Groups:
 - NCEP CPC
 - NASA GSFC
 - Scripps ECPC ?
 - Others are welcome!

- March, April and May Initial Conditions...

- www.cpc.ncep.noaa.gov/products/Global_Monsoons_American_Monsoons/NAME/index.html

FSU June Ensemble Forecast The 2010 Warm Water Pool



Climatological area of 28.5 isotherm is shaded in red and the contours show the 28.5 isotherm for all ensemble members. The ensembles include 10 members/day from June 15 to June 24, 2010.