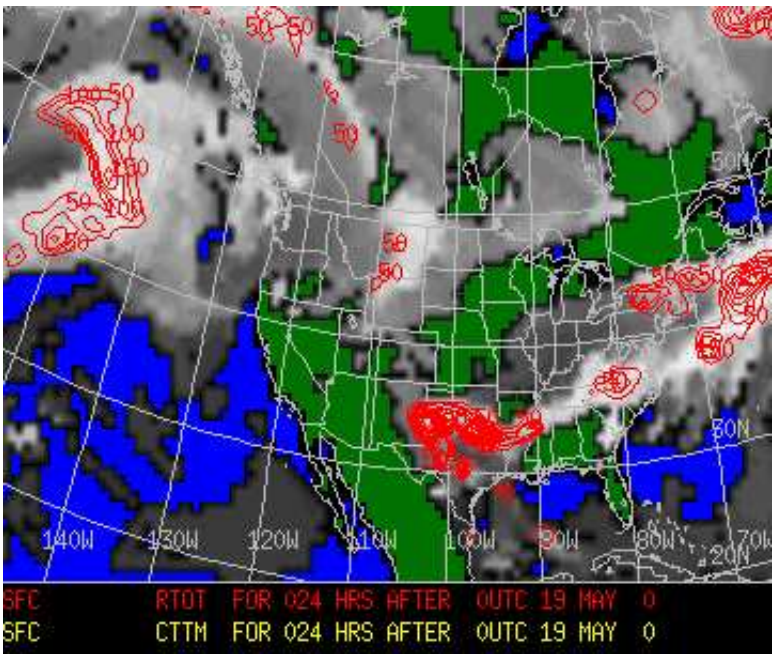
The Daily CIMSS Regional Assimilation System Forecast



Forecast IR satellite image / RADAR plot valid 24hrs after 00 UTC 19 May 00 Red contours are instantaneous integrated precipitation (proportional to radar reflectivity). A 48 hour forecast IR image loop is also available.

CRASNEWS: Now running on a faster processor. Run time is now 50 minutes (was 115 min.). Stay tuned for the latest updates.

CRAS Daily Products

Here is today's 48-hour forecast, initialized at **00 UTC** on **19 May 00**. These forecast products are extracted from the CIMSS Regional Assimilation System (CRAS) model (80km resolution). The daily 00 and 12 UTC forecast results are usually available at approximately 05 UTC and 17 UTC respectively. Disclaimer.

NATIONAL FORECAST MAPS

Surface	850 mb	700 mb	500 mb	300 mb	IR Image and Radar	Water Vapor Image
Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	Analysis
6 hr fcst 6 hr pcp	6 hr fcst	6 hr fcst	6 hr fcst	6 hr fcst	6 hr fcst	6 hr fcst
12 hr fcst 6 hr pcp	12 hr fcst	12 hr fcst	12 hr fcst	12 hr fcst	12 hr fcst	12 hr fcst
18 hr fcst 6 hr pcp	18 hr fcst	18 hr fcst	18 hr fcst	18 hr fcst	18 hr fcst	18 hr fcst
24 hr fcst 6 hr pcp	24 hr fcst	24 hr fcst	24 hr fcst	24 hr fcst	24 hr fcst	24 hr fcst
Surface	**850 mb**	**700 mb**	**500 mb**	**300 mb**	**IR Image and Radar**	**Water Vapor Image**
30 hr fcst 6 hr pcp	30 hr fcst	30 hr fcst	30 hr fcst	30 hr fcst	30 hr fcst	30 hr fcst
36 hr fcst 6 hr pcp	36 hr fcst	36 hr fcst	36 hr fcst	36 hr fcst	36 hr fcst	36 hr fcst
42 hr fcst 6 hr pcp	42 hr fcst	42 hr fcst	42 hr fcst	42 hr fcst	42 hr fcst	42 hr fcst
48 hr fcst 6 hr pcp	48 hr fcst	48 hr fcst	48 hr fcst	48 hr fcst	48 hr fcst	48 hr fcst

- **Regional Forecast Maps**
- **Site-Specific Forecasts**
- **GOES-8/10 Water Vapor Compared to Initial Eta**
- **Wisconsin Regional Forecast**
- **Other Forecast Products**

About this Forecast

The CRAS forecast is initialized using conventional meteorological data (temperature, wind, etc.) from rawinsondes (balloon), surface observations, and sea surface temperatures (SSTs) data from the AVHRR instrument on the NOAA Series of polar orbiting satellites. Moisture data from the GOES-8 and GOES-10 sounders are also assimilated. This includes vertically integrated water vapor in the moisture analysis and a cloud initialization using retrieved cloud-top pressures. The GOES-10 footprint extends well out into the Eastern Pacific Ocean where conventional data are sparce. These observations are analyzed onto the model grid at three hour intervals during a CRAS 12 hour 'spinup' forecast prior to the synoptic time. The forecast is nested in EMC's Eta model forecast. The combined analysis/forecast system takes 75 minutes to execute. Forecast products are available approximately 5 hours after synoptic time (05UTC and 17UTC)

CRAS Research Projects

- **Satellite Data Assimilation Research at CIMSS**
- **OSSEs - Observing System Simulation Experiments**
- **Land Surface Energy/Water Budget Studies**

Anonymous FTP Statistics for Daily Forecast Products

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Please refer questions or comments to the CRASmaster at cras@ssec.wisc.edu.