



Routine
ARM Aerial Facility (AAF)
Clouds with Low Optical Water Depts (CLOWD)
Optical
Radiative
Observations



RACORO FORECASTING

Daniel Hartsock

CIMMS, University of Oklahoma

RACORO Forecasting

- ▣ ARM AAF Wiki page
- ▣ Weather Briefings
- ▣ Observed Weather
- ▣ Cloud forecasting models
- ▣ BUFKIT forecast soundings

Wiki

RACORO < AAF < TWiki - Mozilla Firefox

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http://wiki.arm.gov/bin/view/AAF/RACORO

http://www.byucouga... Most Visited Getting Started Latest Headlines ESPN - NBA Basketball...

NWS Norma... NWS - Natio... Oklahoma M... RACO... ACRF - RAC... ADDS - MET... Satellite ima... Forecast pa... Forecast pa... Regional Ma... ADDS - Prog... Forecasts SPC SREF R... Storm Predi...

ARM

Hello Daniel Hartsock


ARM Wiki » AAF » RACORO

23 Mar 2009 - 13:44 GMT - John Hubbe


Jump Search

Edit Attach Printable

RACORO



Routine
ARM Aerial Facility (AAF)
Clouds with Low Optical Water Depths (CLOWD)
Optical
Radiative
Observations



AAF POC: [John Hubbe](#), (office) 509.372.6134, (cell) 509.308.3699 (Remainder of Campaign)

Topic Map

[Photo Gallery](#)

- Weather Outlook
 - [Weather Links](#)
 - [Aerosol Links](#)
 - [SGP Quicklook Plots](#)
 - [SGP Plot Browser \(all\)](#)
- Flight Management
 - [Flight Calendars](#)
 - [Personnel Information](#)
 - [Weather Forecasting Protocol](#)
 - [No-Go Criteria & Flight Briefings](#)
 - [Flight Plans](#)
 - [Vance Restrictions](#)
- Research Flights

Done

start ARM Science Team M... RACORO < AAF < T... RACORO Forecasting G011 - NAM - BUFKIT G011 - NAM - BUFKIT...

12:53 PM

Wiki

- Wiki Configuration
- AAF
- New Topic >
- Notifications >
- Recent Changes >
- CLASIC
- ISDAC
- RACORO
- SPARTICUS

- Tools & Reference**
- Change Password
 - Users Guide
 - Text Formatting

Weather and Flight Outlook

Guthrie, OK
Partly Cloudy
Humidity: 55%
Visibility: 9 miles/14 km
Wind: Calm / Calm
Updated: 12:55 PM
72°F / 22°C
click for forecast

Sunrise: 07:28 AM (CDT)
Sunset: 07:44 PM (CDT)
Moon Rise: 05:46 AM (CDT)
Moon Set: 05:02 PM (CDT)
Guthrie, OK
Partly Cloudy
Weather Underground
12:55 PM 72°F

Click [Here](#) for more weather links and info

- ↓ [March](#)
- ↓ [February](#)
- ↓ [January](#)

March

Day of Week	Date	Observed Weather	24 Hour Forecast	Long Range Forecast
Sunday	1	Cirrus clouds	Cirrus clouds	Cirrus through Friday
Monday	2	Cirrus clouds	Cirrus clouds	Cirrus through Friday
Tuesday	3	Cirrus clouds	Cirrus clouds	Cirrus through Friday
Wednesday	4	Cirrus clouds	Cirrus clouds	
Thursday	5	Cirrus clouds	Cirrus clouds	Slight chance of thunderstorms Saturday afternoon and evening. Mostly clear Sunday.
Friday	6	Cirrus clouds	Mid-High level clouds with a chance of thunderstorms.	Mostly sunny Sunday through Tuesday
Saturday	7	Thick mid-level clouds		
Sunday	8	Few high cirrus		
Monday	9	Cloudy with Thunderstorms	Few cirrus clouds	Cold front arriving Tuesday night, mostly clear Wednesday, and a chance of wintry precip later in the week
Tuesday	10	Cold front cloudiness	Cirrus clouds	Supercooled cloudiness with chances of wintry precip through Friday
Wednesday	11	Cirrus clouds	Supercooled clouds with chance rain/snow	Supercooled clouds through Saturday

Weather Briefings

Weather Brief

- Next Telecon: Monday, March 23, 2009 @ 1200 CDT (forecaster - Daniel)
- Telecon number: 1.877.223.4490, access code: 83810# (Initiator uses 35705#)
- Attendee Live Meeting Link: <https://www.livemeeting.com/cc/pnnl/join?id=TQNS2M&role=attend>
- Presenter Live Meeting Link: <https://www.livemeeting.com/cc/pnnl/join?id=TQNS2M&role=present&pw=RACORO2009>

Available Meteorologist

- [Daniel Hartsok](#): 580.388.4053 or 580.304.5168 (cell)
- [Justin Monroe](#): 405.325.1855 or 405.488.4789 (cell)
- [Jason Tomlinson](#): 509.375.2715 or 979.218.5277 (cell)

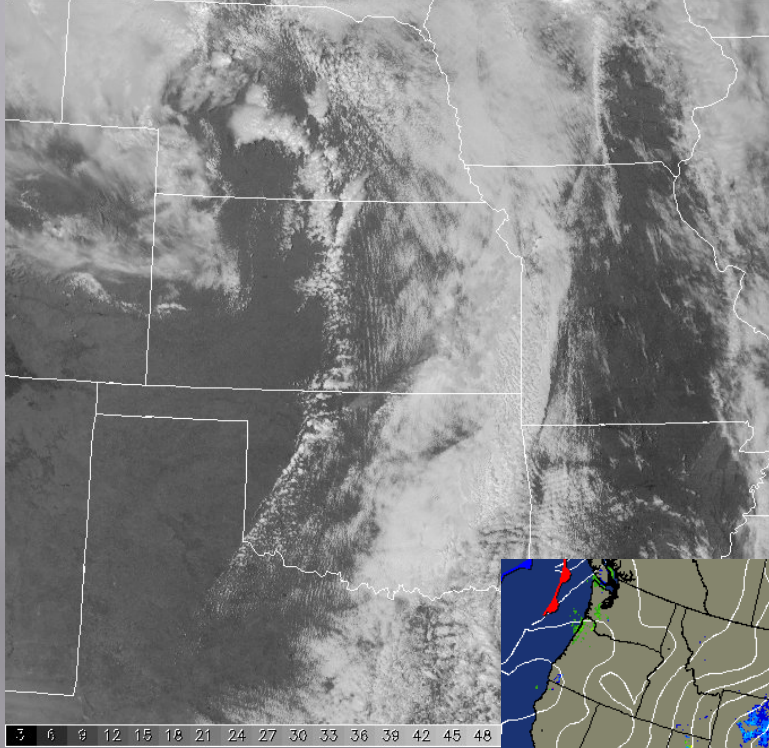
RSC Telecon

- Telecon number: 1.800.664.0771, at prompt dial 376.0166 then 0

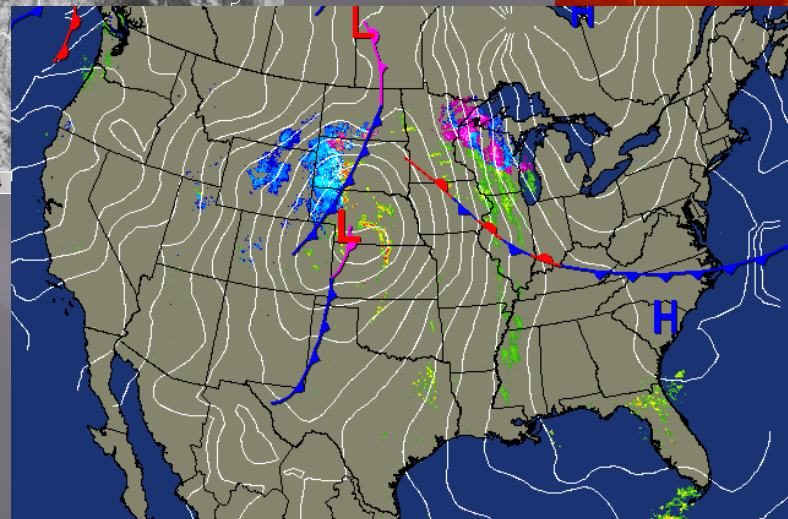
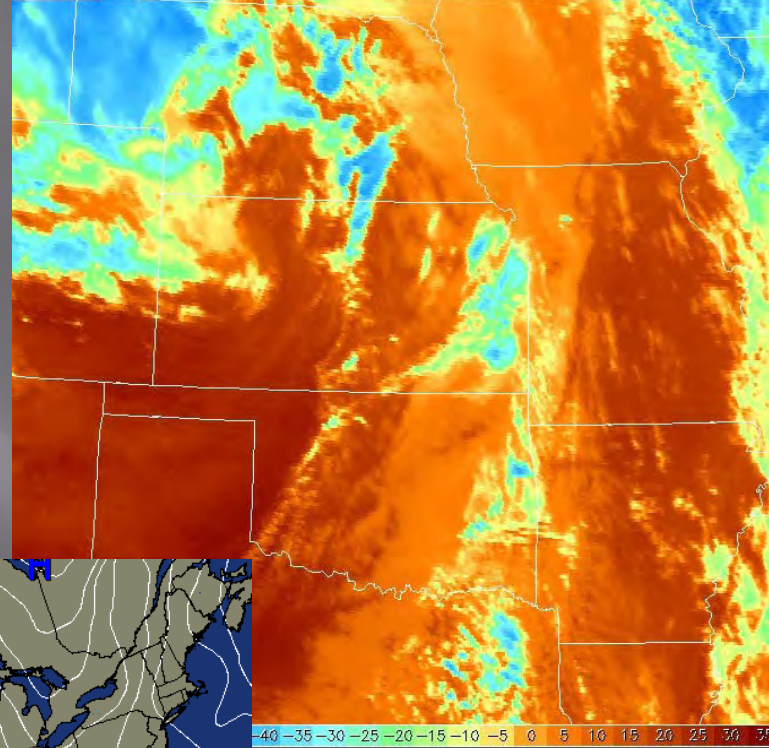
March 2009						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01 PI: Long Co PI: Feingold Research Flight	02 PI: Feingold Co PI: Comstock	03 PI: Feingold Co PI: Comstock	04 PI: Feingold Co PI: Comstock Research Flight	05 PI: Feingold Co PI: Comstock	06 PI: Feingold Co PI: Comstock	07 PI: Feingold Co PI: Comstock
08 PI: Feingold Co PI: Comstock	09 PI: Comstock Co PI: Turner	10 PI: Comstock Co PI: Turner	11 PI: Comstock Co PI: Turner	12 PI: Comstock Co PI: Turner	13 PI: Comstock Co PI: Turner	14 PI: Comstock Co PI: Turner
15 PI: Comstock Co PI: Turner Research Flight	16 PI: Turner Co PI: Vogelmann	17 PI: Turner Co PI: Vogelmann Research Flight	18 PI: Turner Co PI: Vogelmann Research Flight	19 PI: Turner Co PI: Vogelmann	20 PI: Turner Co PI: Vogelmann Research Flight	21 PI: Turner Co PI: Vogelmann
22 PI: Turner Co PI: Vogelmann	23 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT	24 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT	25 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT	26 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT	27 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1230 CDT RSC Telecon @ 1130 CDT	28 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT
29 PI: Vogelmann Co PI: McFarquhar Wx Brief Call @ 1200 CDT	30 PI: McFarquhar Co PI: Dgren Wx Brief Call @ 1200 CDT	31 PI: McFarquhar Co PI: Dgren				

Observed Weather

1815 UTC 23 Mar 2009 Visible Image (c)2009 UCAR <http://www.rap.ucar.edu/weather/satellite/>



1845 UTC 23 Mar 2009 Infrared Image (c)2009 UCAR <http://www.rap.ucar.edu/weather/satellite/>



United States Current Fronts Mon Mar 23 14:32:12 EDT 2009



Observed Weather

ACRF - RACORO - Data Plots - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://acrf-campaign.arm.gov/racoro/plots.php

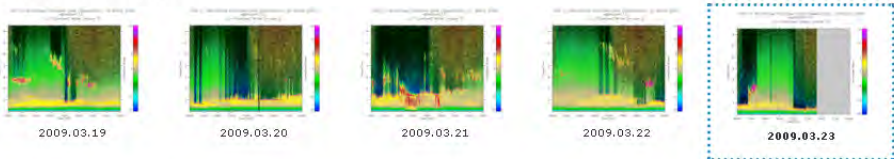
http://www.byucoug... Most Visited Getting Started Latest Headlines ESPN - NBA Basketba...

NWS Norma... Active Watc... NWS - Natio... Oklahoma M... RACORO <... ACRF -... ADDS - MET... Satellite ima... Forecast pa... Forecast pa... Regional Ma... ADDS - Prog... Forecasts SPC SREF R

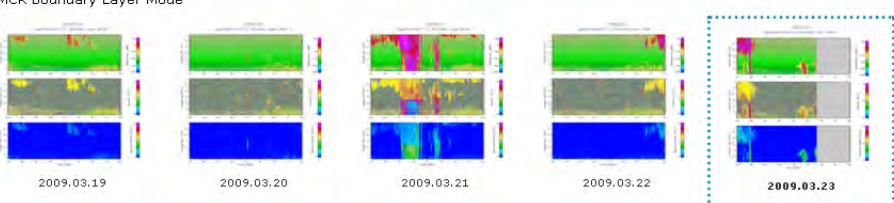
Data Plots

<< Previous 03/23/2009 Next >>

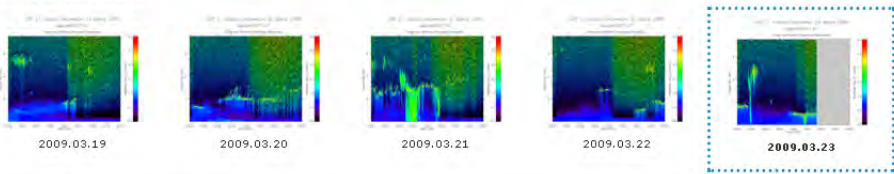
MPL Co-Polarization Channel



MMCR Boundary Layer Mode



Cellometer Backscatter



Microwave Radiometer

Done

- Science Questions
- Preproposal
- Full Proposal (PDF, 886K)
- CLOWD Working Group

Experiment Planning

- Steering Committee
- Meetings
- Science & Operations Plan (PDF, 640K)
- Measurements
- SGP Data Plots
- Collaborations
- RACORO wiki

News

- News & Press
- Fact Sheet, (PDF, 528K)
- Images

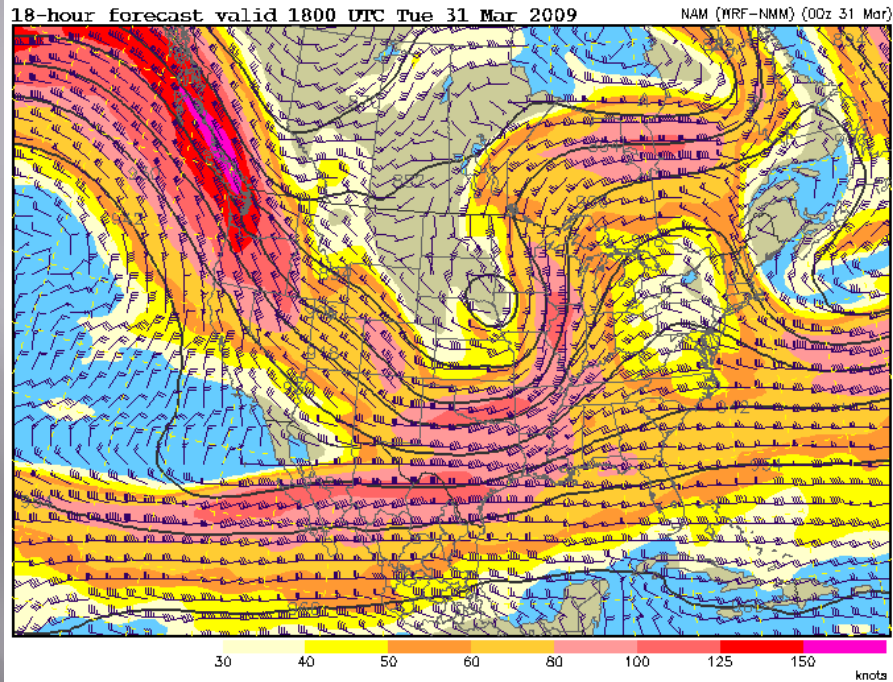
Contacts

- Andrew Vogelmann, Lead Scientist

start ARM Science Team M... ACRF - RACORO - Da... RACORO Forecasting G011 - NAM - BUFKIT G011 - NAM - BUFKIT... 1:53 PM

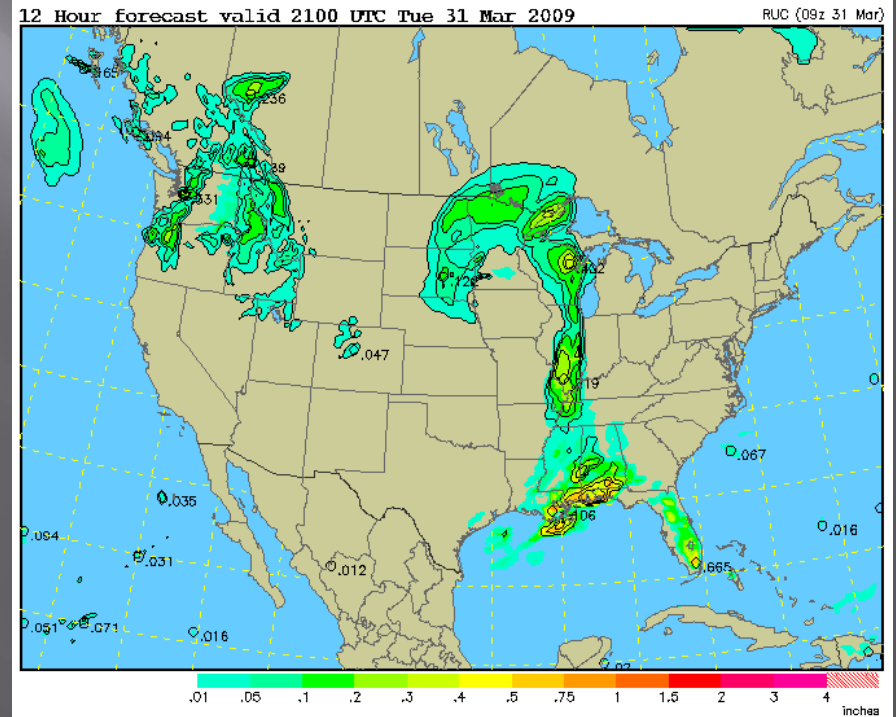
Model Forecasts

300 mb Heights (dm) / Isotachs (knots)



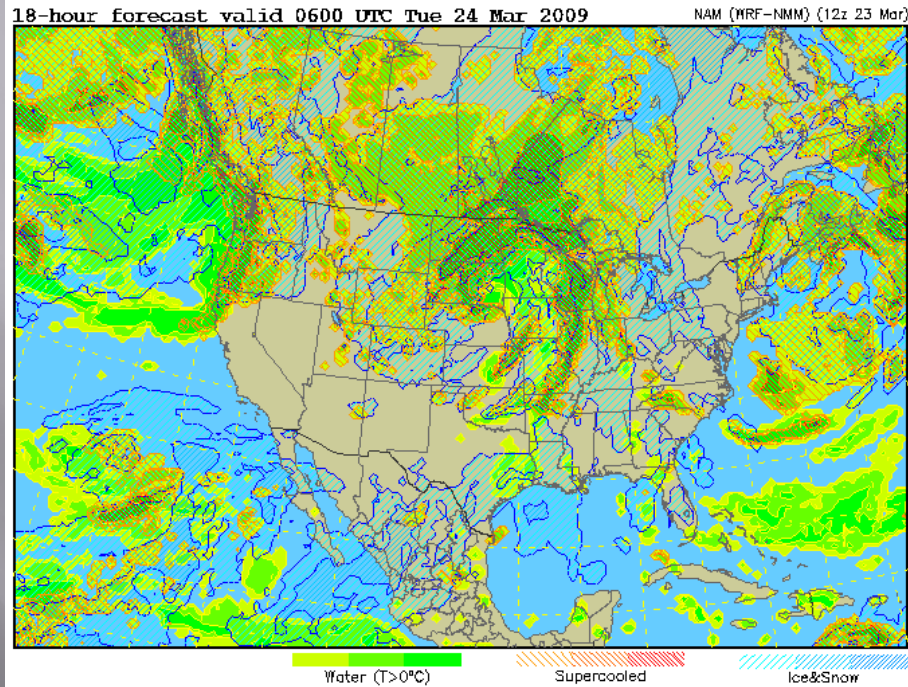
+ guidance from Norman NWS
enhanced pages and discussions

3-hr accum precip (total-shaded; nonconvect-solid)

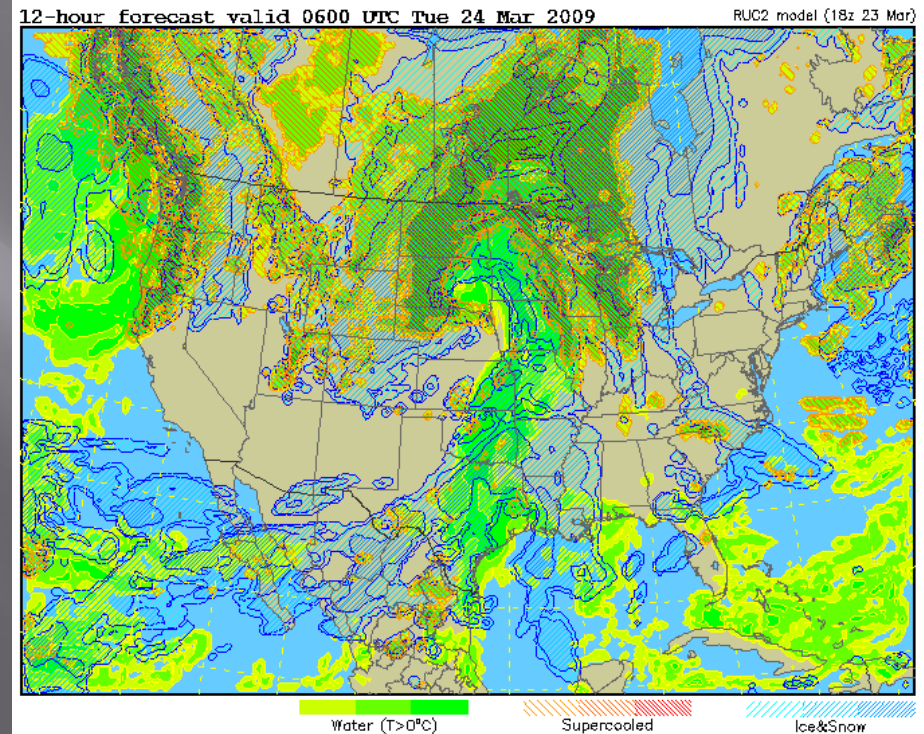


Cloud Forecast Models

Integrated liquid and frozen hydrometeors (all levels)



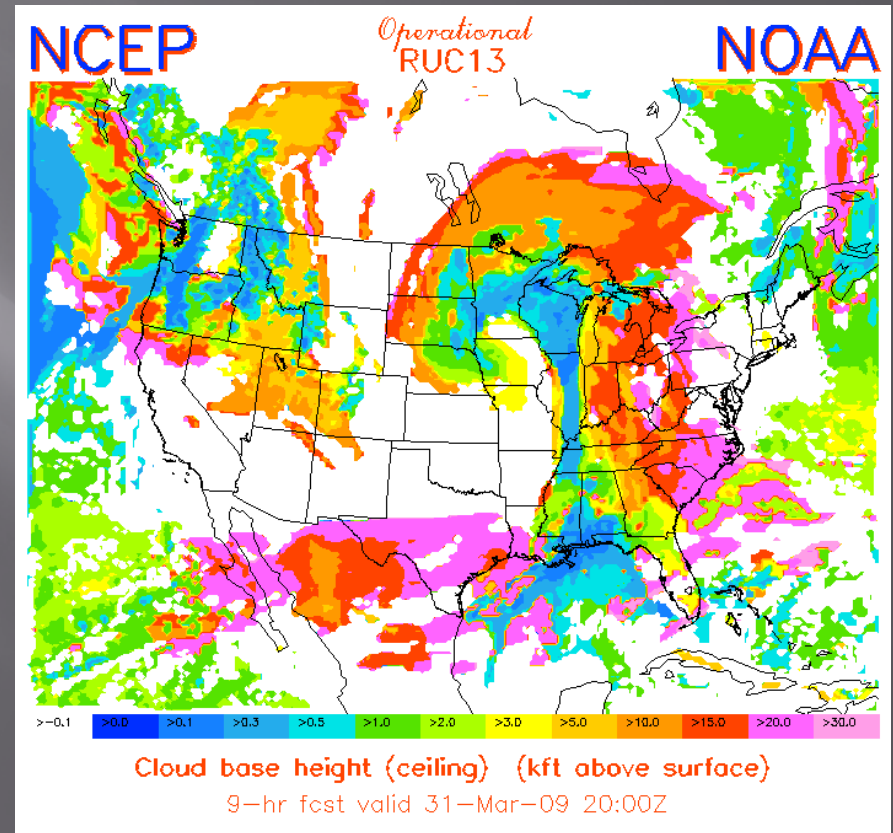
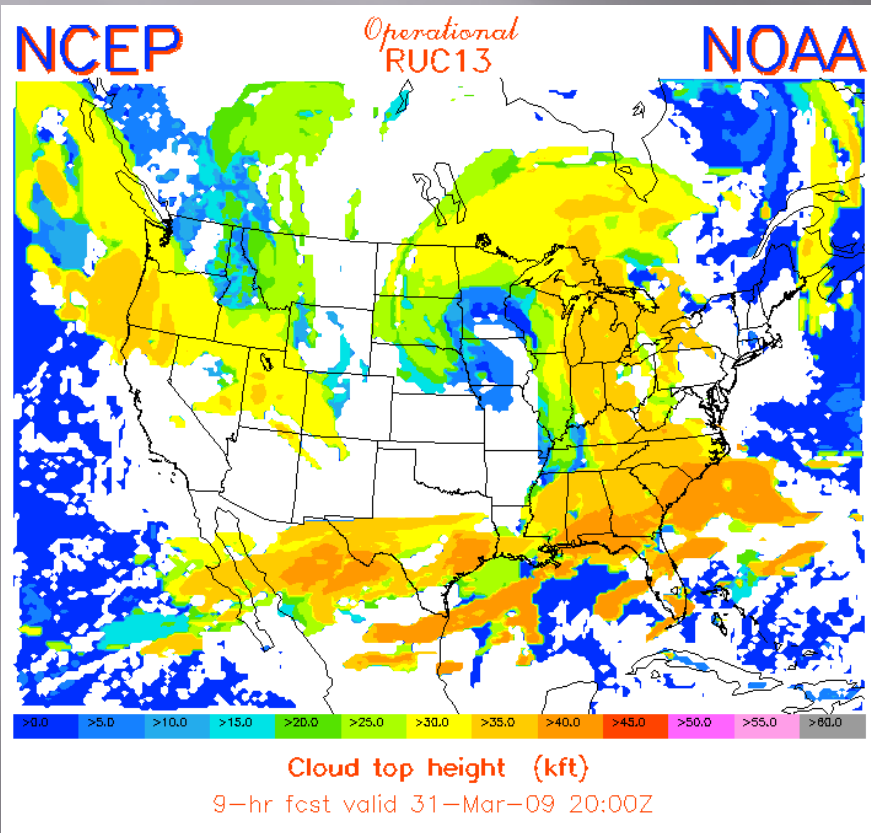
Integrated liquid and frozen hydrometeors (all levels)



NAM-WRF
updated twice/day (12Z and 00Z)
Forecast out to 84-hours

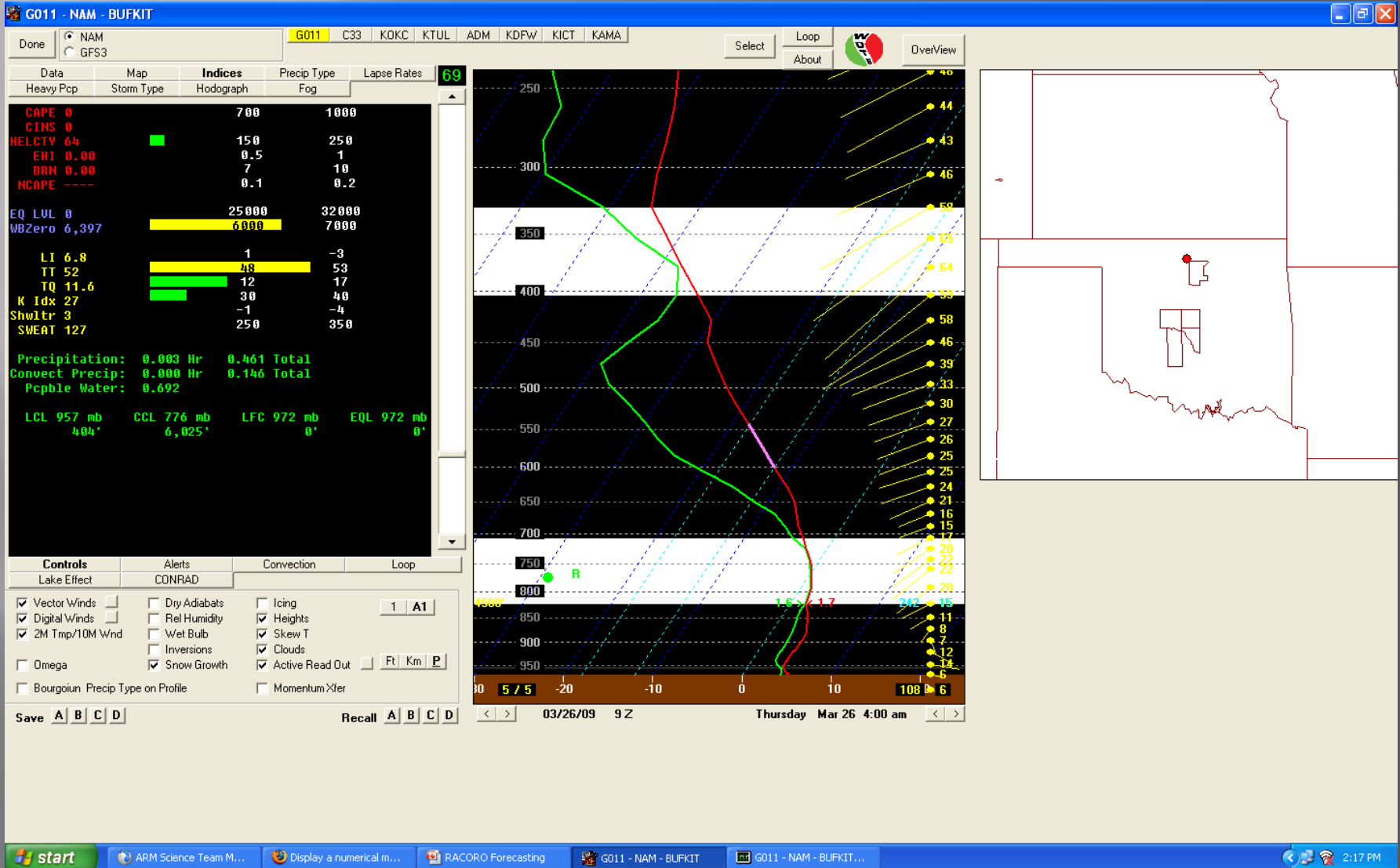
RUC
(updated every 3 hours)

RUC Cloud Top/Base Forecast



Operational RUC forecast only goes out 12 hours
(developmental out 24 hours)

BUFKIT



BUFKIT Overview

