

GOES-R/JPSS User Readiness Meeting

NWS Albuquerque

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User-Readiness



THE FUTURE OF WEATHER
FORECASTING IS COMING!





User-Readiness



Example of RGB Air Mass Imagery from MODIS with GOES Water Vapor

Forecast Systems Laboratory D-20 (fsl)

Valid time seq: COHUS Clear

GOES WV used to

RAMMB: GOES-R Proving Ground Blog

Olive = warm,

CIMSS Satellite Blog

Proving Ground Blog Home CIRA Real-Time PG Products GOES-R Proving Ground Home

THE WIDE WORLD OF SPoRT

Fostering interaction between product developers and end users

Feeds: Posts Comments

The Wide World of SPoRT

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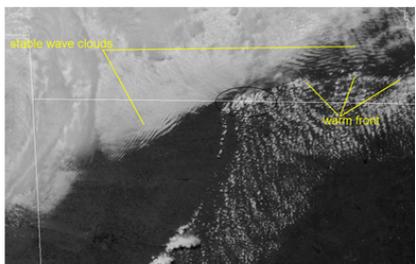
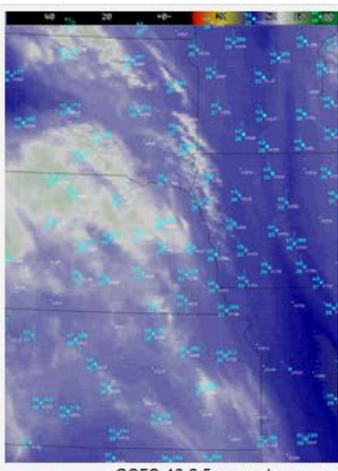
/ CIMSS / CIMSS Satellite Blog /

Second-latest snowfall on record a
May 16th, 2014

GOES-14 SRSO for 11 May 2014 Severe Weather Event

Posted on May 12, 2014 by Dan Blos

GOES-14 was operating on super rapid scan operations schedule for May 11, 2014, meaning that images were being taken every 1 minute. This high temporal resolut will be routinely available for severe weather events with GOES-R, therefore it is b to learn how to maximize the value added by this dataset. SPC issued a moderate portions of Nebraska and Kansas which will be the focus here. The GOES visible i from 1838 to 2011 UTC is shown here:



Satellite Blogs

Archive for February, 2014

Is that a hurricane off of California?

Posted in AIRS, GOES-R Proving Ground, JPSS Proving Ground, MODIS, RGB on February 28, 2014 | 1 Comment »

Well, it's February and it's the East Pacific off of California, so the short answer is no. But... what an amazing structure, right? We haven't seen anything this good looking in the tropical Atlantic in years! But I digress. . .

CATEGORIES

- AIRS (17)
- AMSR-E (16)
- AWIPS II (17)
- CALIPSO (2)
- CIRA Products (10)
- CloudSat (5)
- CrIS (5)
- Data Assimilation (16)
- Disasters (7)
- GOES Products (41)
- GOES-R Convective Initiation (3)
- GOES-R Proving Ground (94)
- JPSS Proving Ground (35)
- Lightning Mapping Array (30)
- Modeling (44)
- MODIS (174)
- Outreach (4)
- Passive Microwave (12)
- QPE (9)
- RGB (83)
- SPoRT ADAS (12)
- SPoRT Products (7)

MODIS RGB Air Mass product valid at 0621 UTC on 02/28/14. The blue lines are the boundaries of OPC (north), TAFB (south), and Hawaii (west).

Satellite Blogs

Satellite Blogs

Rockford Illinois had their second-latest snowfall on record

ellites - 9 videos

YouTube Videos

83

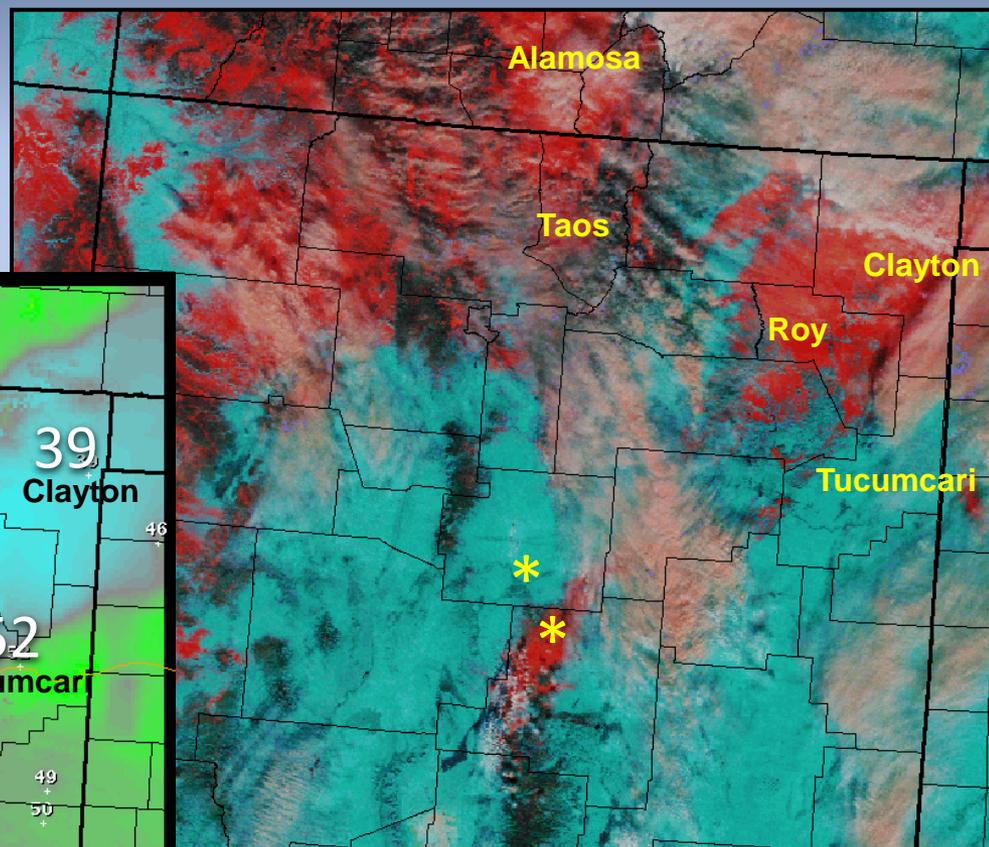


Snow-Cloud RGB

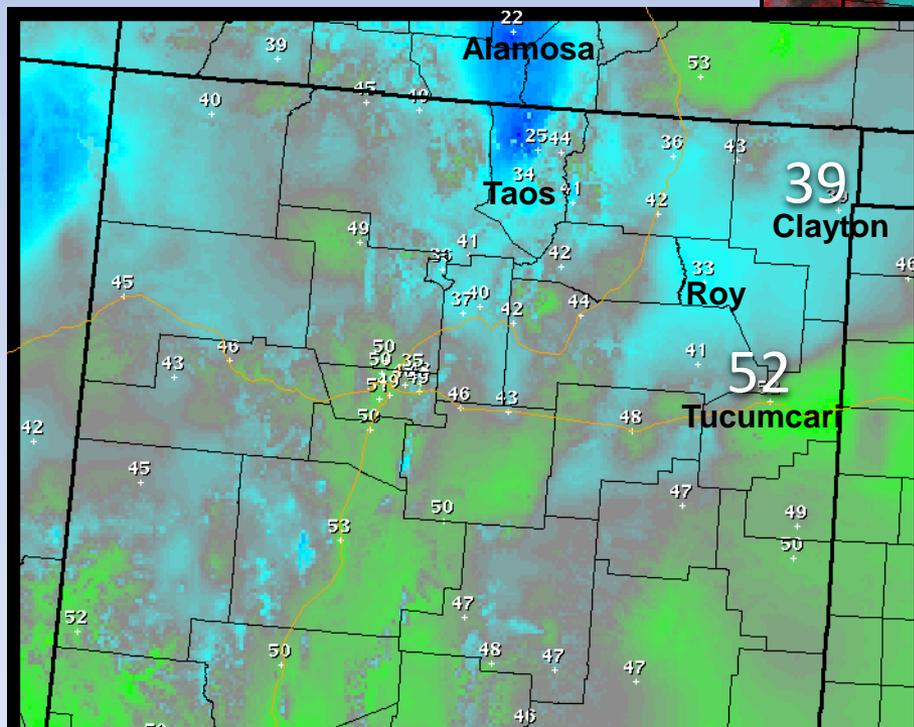


Red shades = snow cover
Green shades = snow free.

Note the temperature gradient between
Tucumcari and Clayton.



RGB Snow Cover 1/7/13

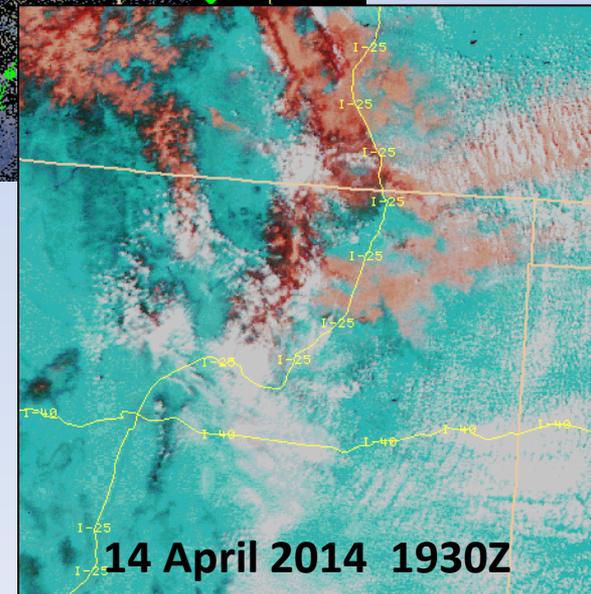
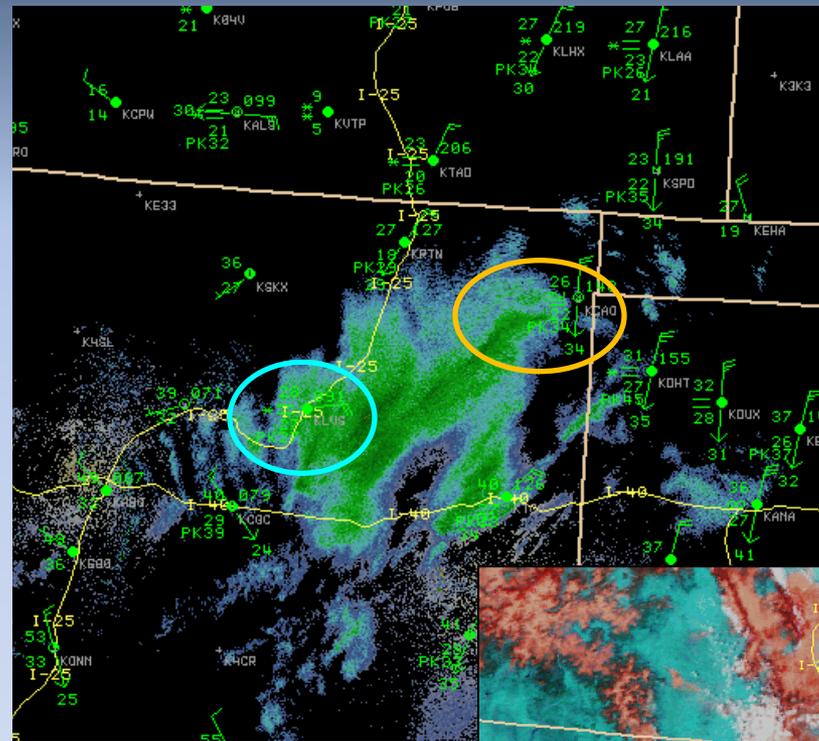
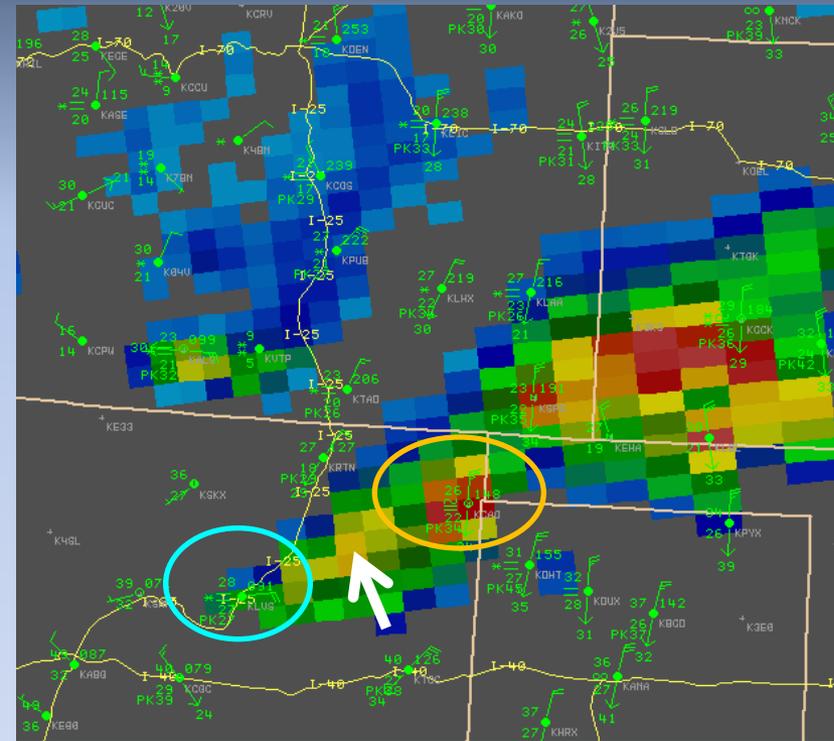


Max Temperature Observations 1/7/13

*Can also assist verification efforts



Snowfall Rate



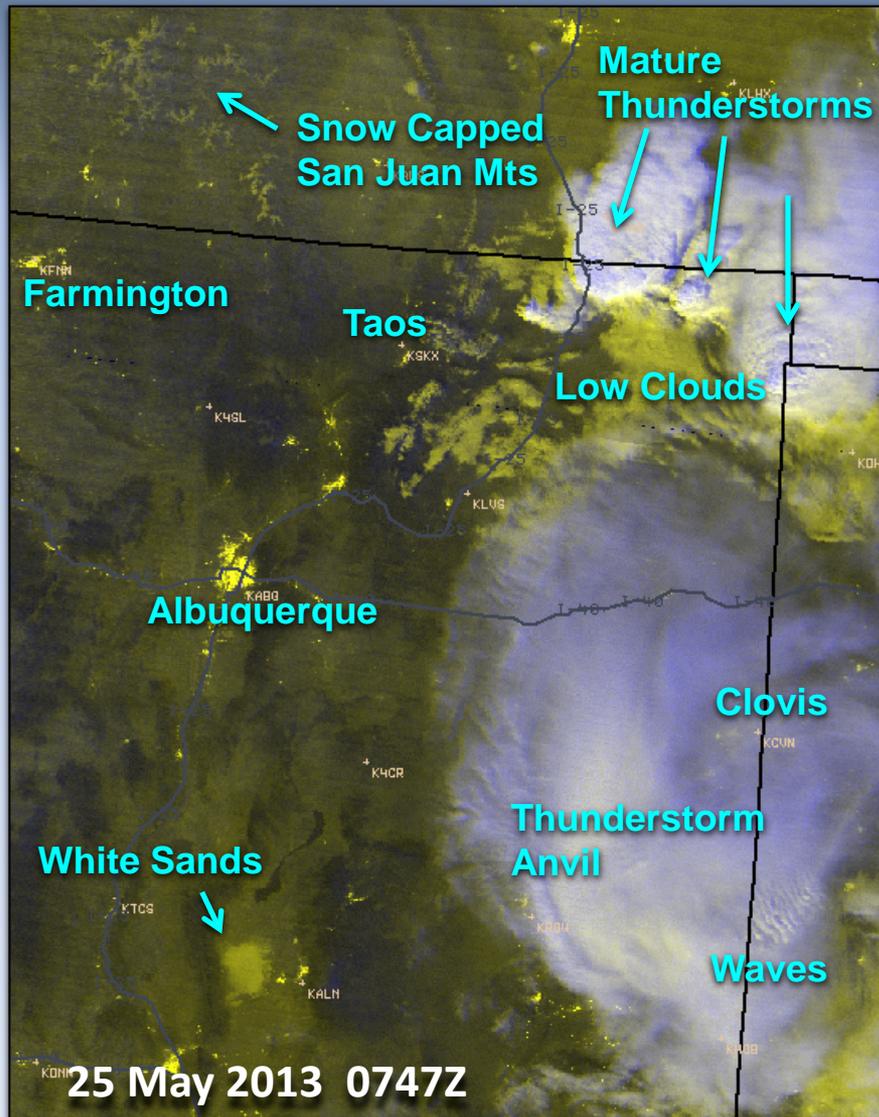
14 April 2014 0429Z SFR product.

The Clayton (CAO – orange oval) observer did call in at 06Z with a report of 1.5” of snow. We don’t receive snowfall at the Las Vegas ASOS (LVS – cyan oval). Another spotter call from 05Z reported 2.5 inches of snow at a location near the white arrow.

14 April 2014 1930Z



Nighttime Imagery



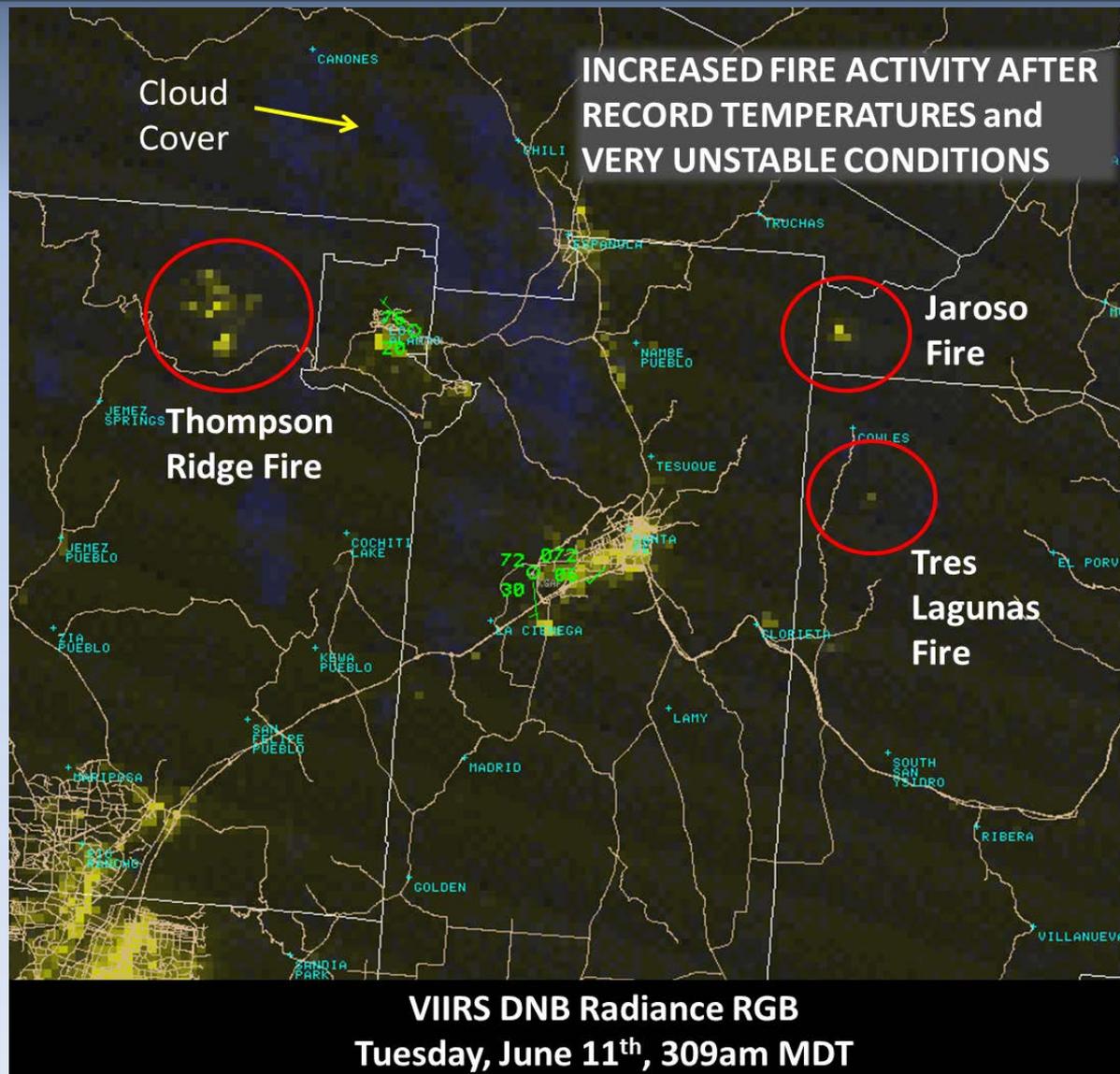
Reflected moonlight from the full “flower” moon provided stellar images from the VIIRS instrument.

Large storms that developed over eastern NM reflected so much of the full moonlight that it was almost as if the sun was out.

Several features noted on this image include city lights, White Sands, snow capped mountains, low clouds, wave clouds, thunderstorm anvils, and mature storm updrafts.



Nighttime Imagery

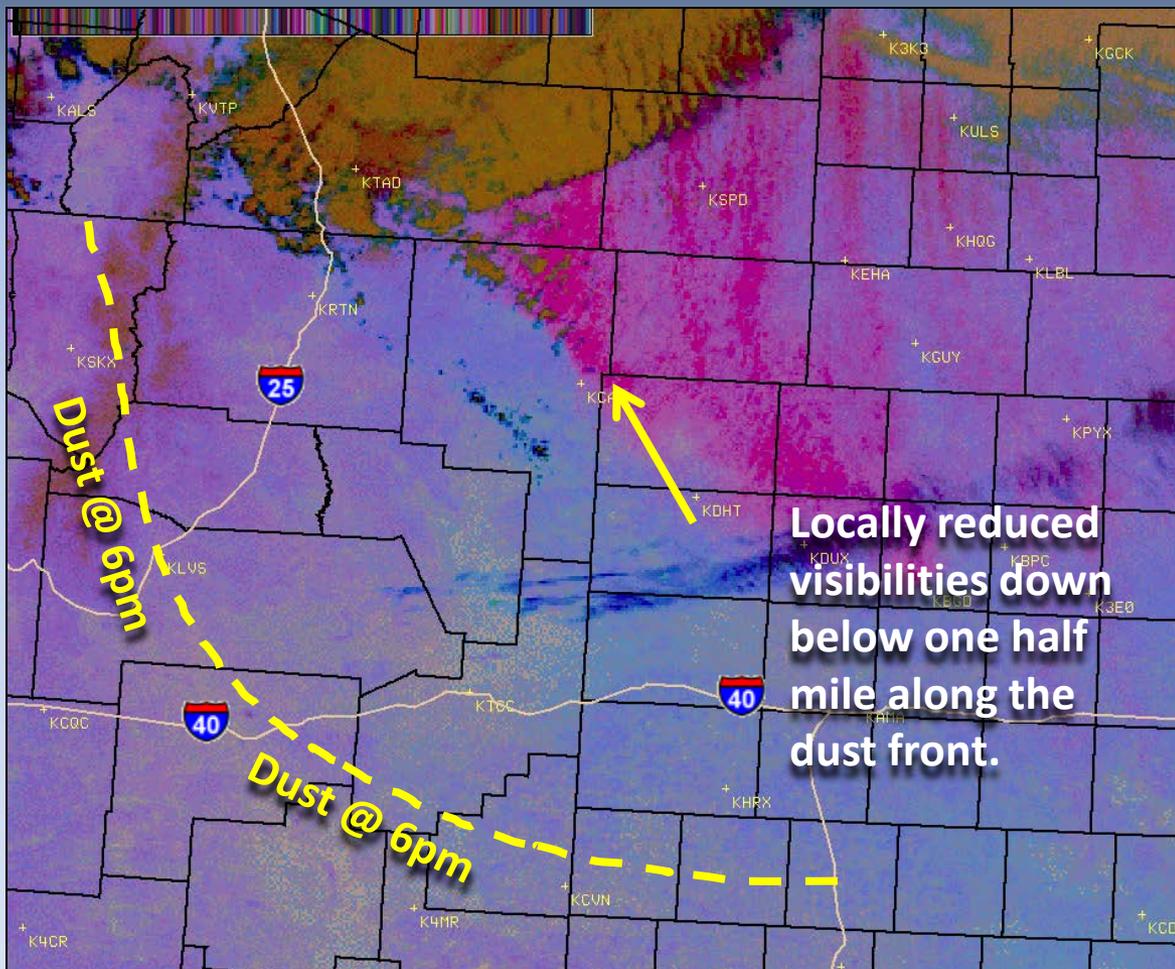


The VIIRS DNB Radiance RGB detected the glow of fire activity during the overnight hours as well as city lights (yellow shades). Note the Santa Fe and ABQ areas.

The very hot temperatures and unstable conditions from the 10th resulted in increased fire activity overnight as indicated by the yellow shades inside the red circles. No fire activity was observed the previous night.



“Dust” RGB



**MODIS/VIIRS Satellite Dust Detection
11 March 2014 2019Z**

Areas in magenta are where satellite is detecting significant blowing dust.

Visibilities will fall below 2 miles in dust behind the front and locally below ½ mile along the front.

Motorists should exercise extreme caution traveling over this area into early this evening.



Courtesy of Aaron & Cassie Loomis



Outlook



Where do we go from here for operational forecasters to achieve GOES-R/JPSS “user readiness”?