



Short term Weather/ Runoff Considerations



Presentation to:
Combined Task Force Meeting
March 20, 2014
Bob Glancy
National Weather Service



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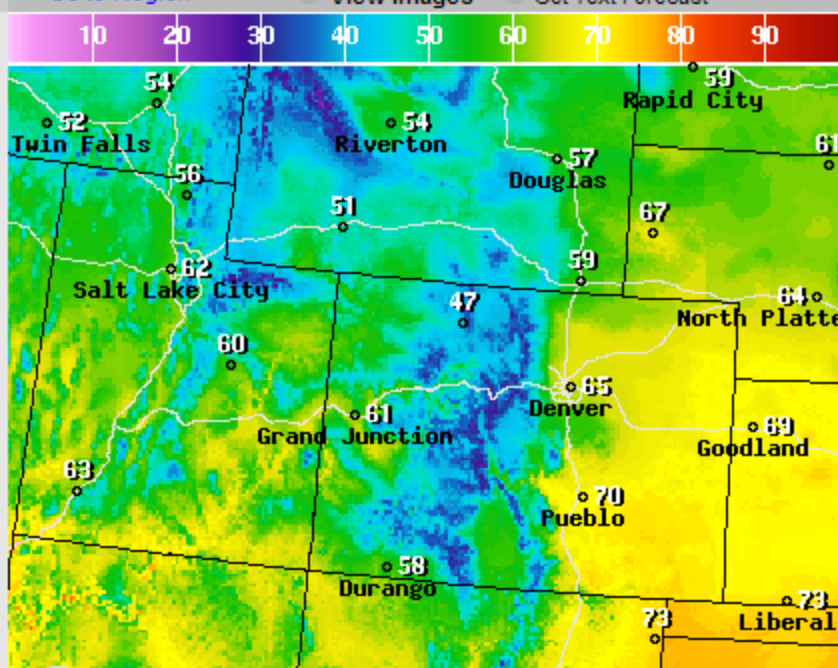
Element Period	High / Low Temperature	Probability of Precip.	Weather
Today	High	PoP12	8am 11am 2pm 5pm
Tonight	Low	PoP12	8pm 11pm 2am 5am
Thursday	High	PoP12	8am 11am 2pm 5pm
Thursday Night	Low	PoP12	8pm 11pm 2am 5am
Friday	High	PoP12	8am 11am 2pm 5pm
Friday Night	Low	PoP12	8pm 2am
Saturday	High	PoP12	8am 2pm
Saturday Night	Low	PoP12	8pm 2am
Sunday	High	PoP12	8am 2pm
Sunday	Low	PoP12	8pm

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High Temperature(F) Ending Thu Mar 20 2014 8PM EDT

(Fri Mar 21 2014 00Z)



National Digital Forecast Database

22z issuance

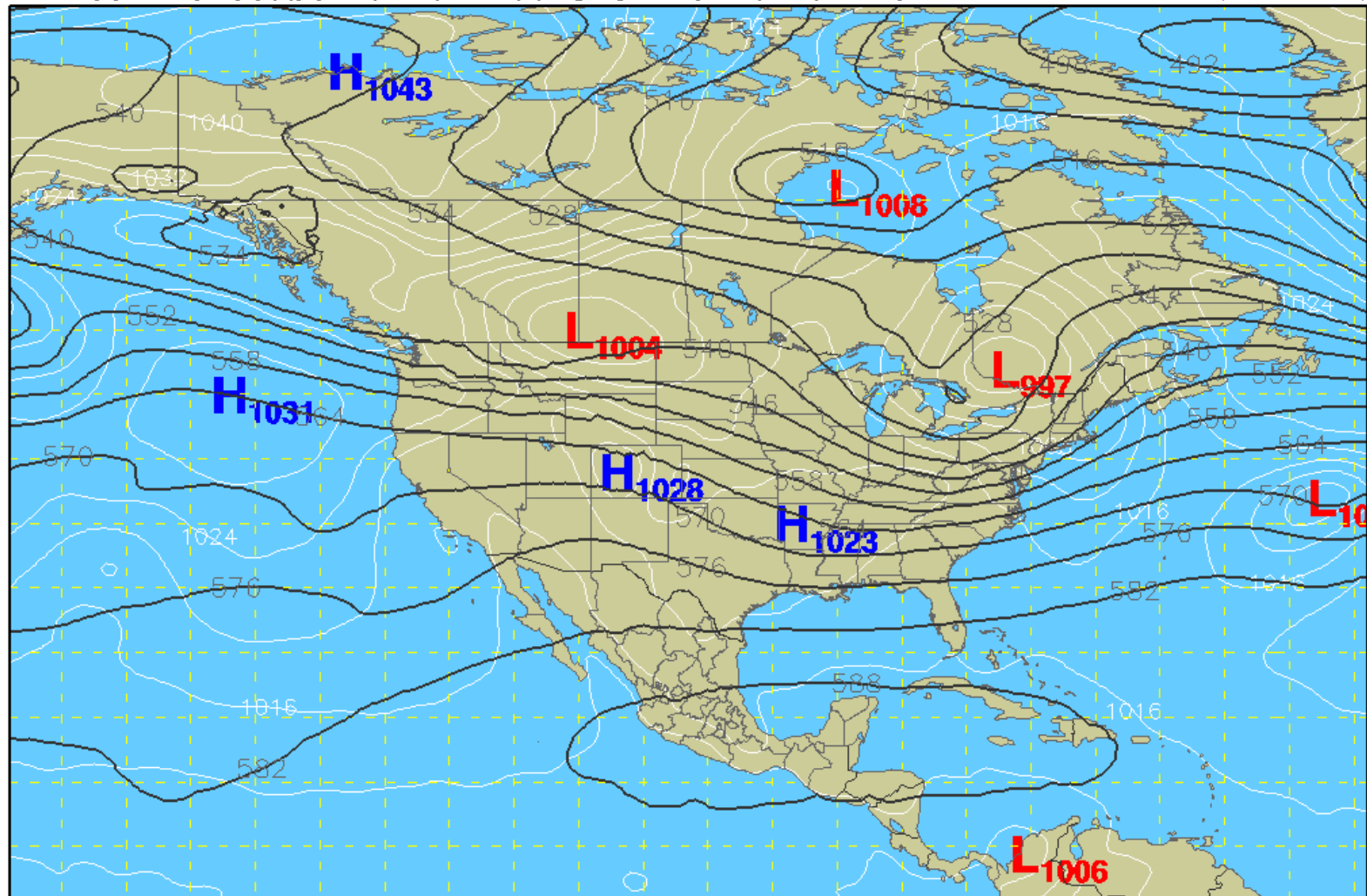
Graphic created-Mar 19 6:14PM EDT



MSLP (mb) / 500 mb Heights (dm)

12-hour forecast valid 1200 UTC Thu 20 Mar 2014

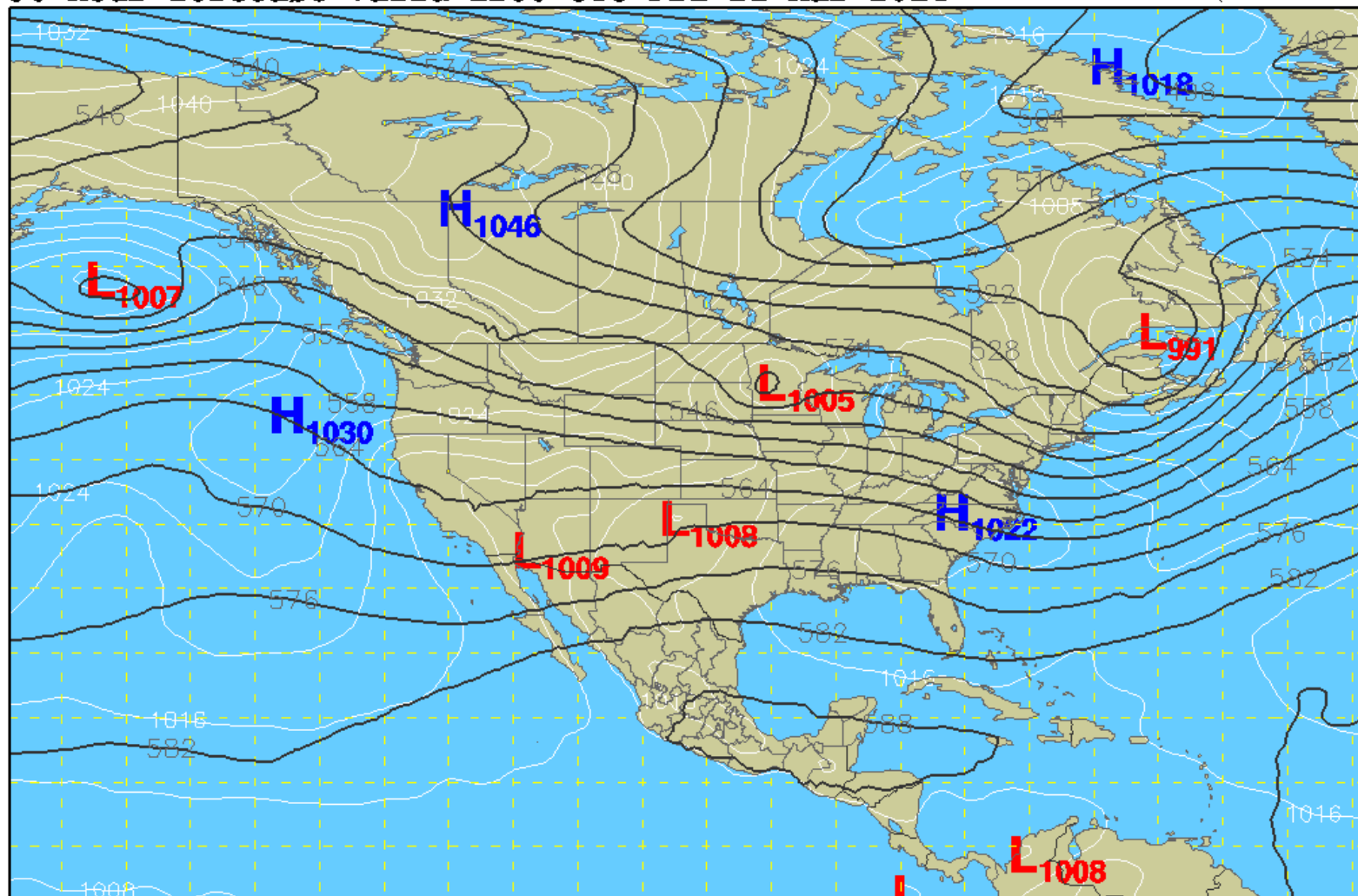
GFS (00z 20 Mar)



MSLP (mb) / 500 mb Heights (dm)

36-hour forecast valid 1200 UTC Fri 21 Mar 2014

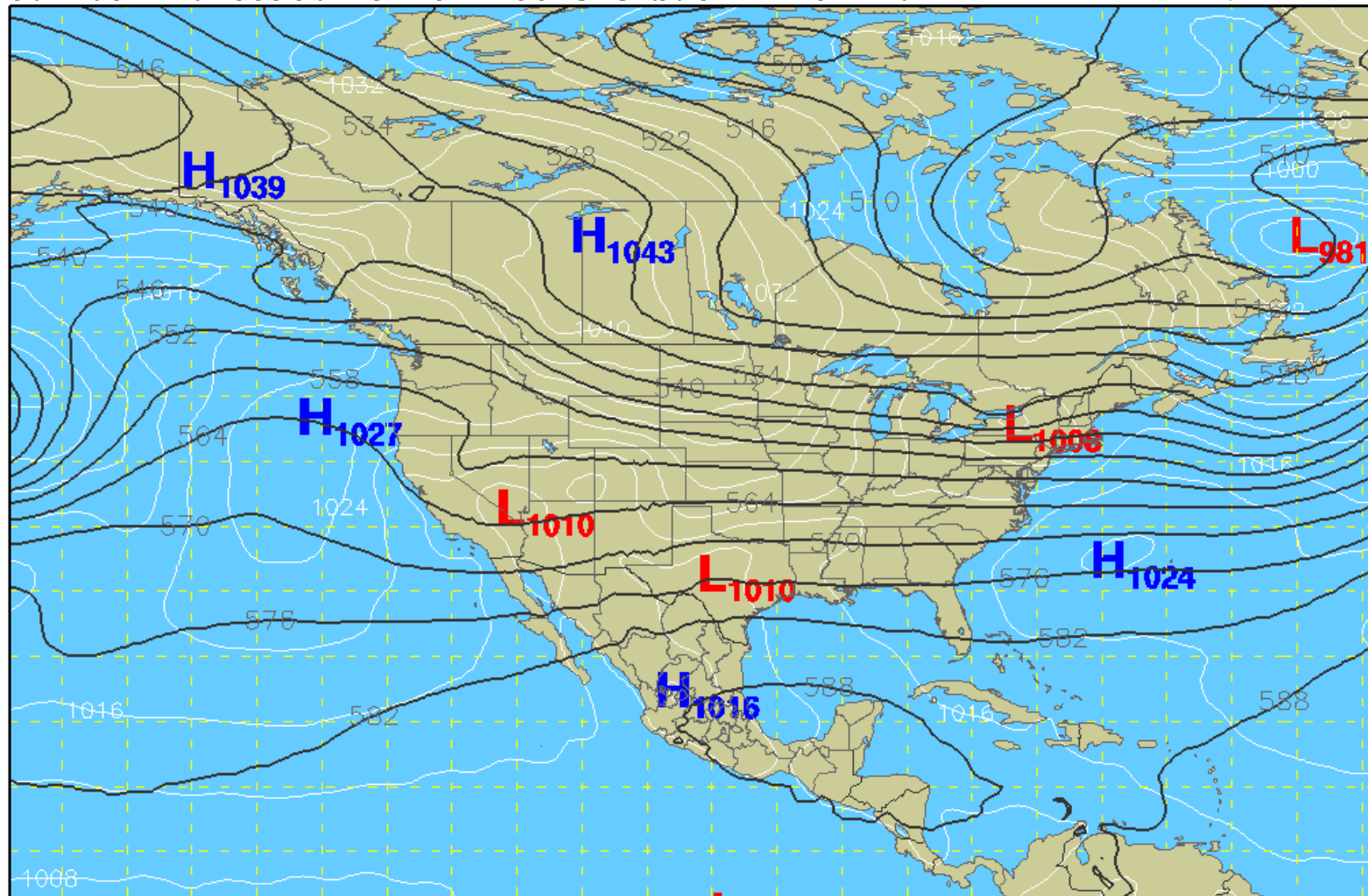
GFS (00z 20 Mar)



MSLP (mb) / 500 mb Heights (dm)

60-hour forecast valid 1200 UTC Sat 22 Mar 2014

GFS (00z 20 Mar)



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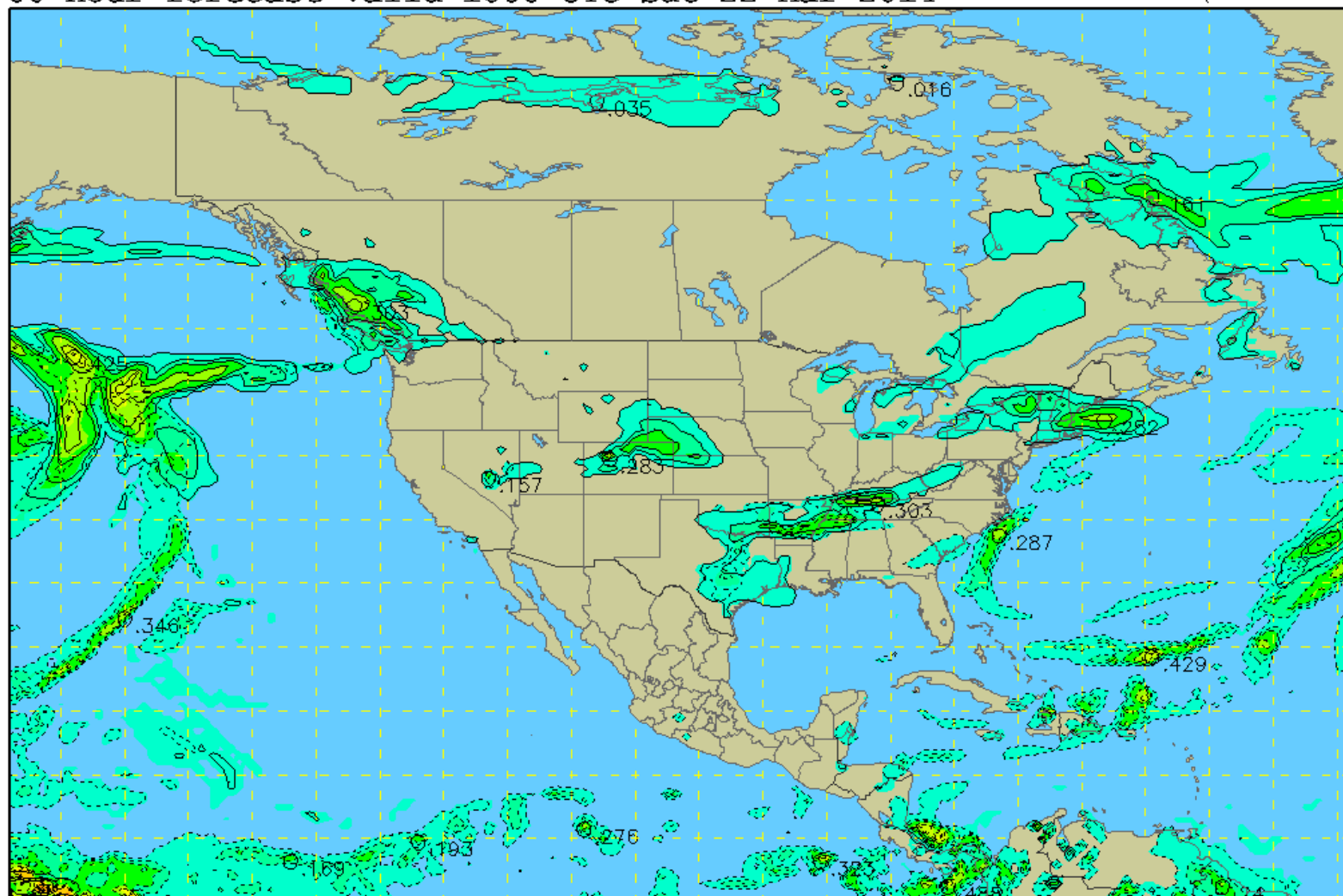
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Speed +

6-h accum precip (in) (total-shaded; convect-dashed)

66-hour forecast valid 1800 UTC Sat 22 Mar 2014

GFS (00z 20 Mar)



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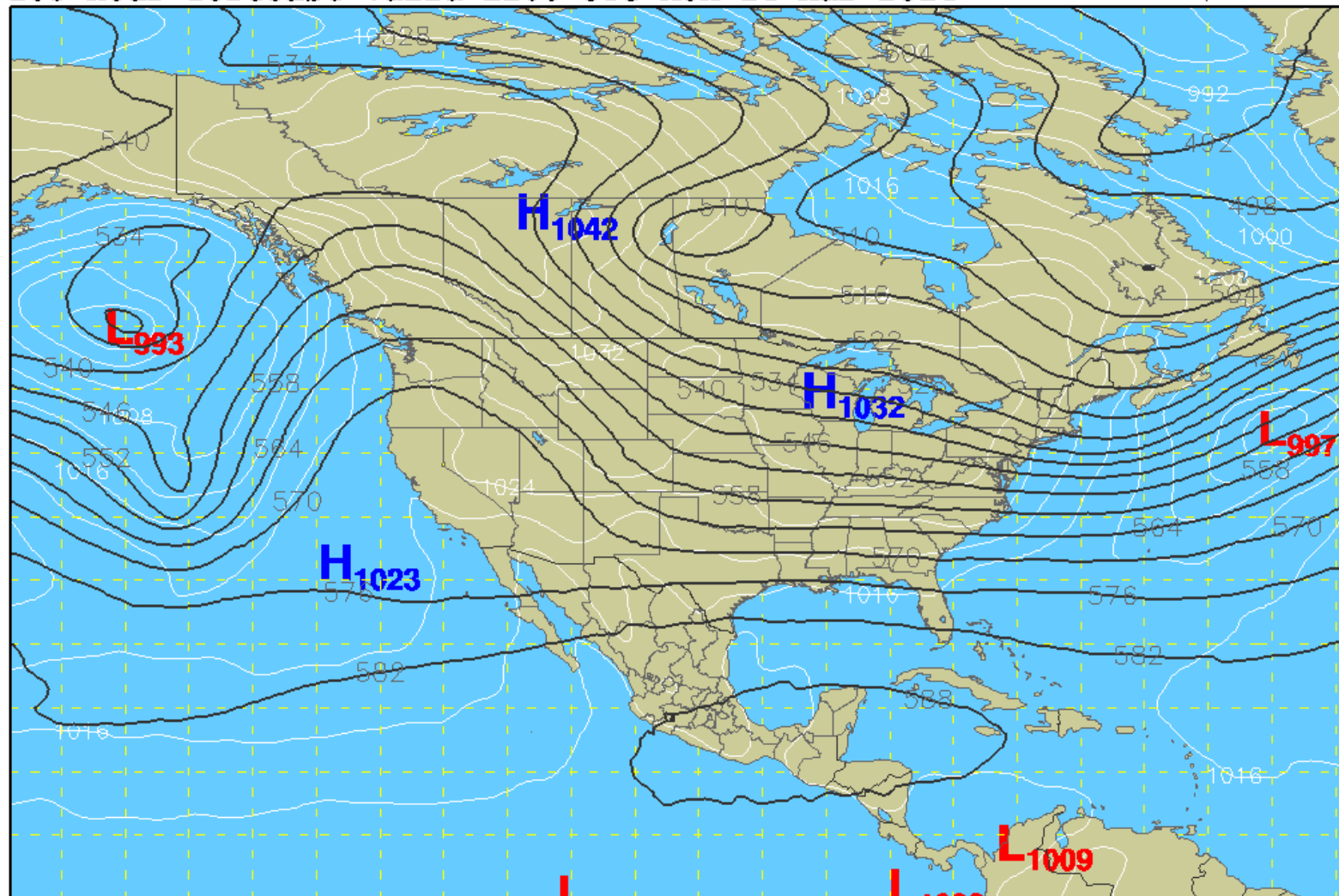
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Speed +

MSLP (mb) / 500 mb Heights (dm)

108-hour forecast valid 1200 UTC Mon 24 Mar 2014

GFS (00z 20 Mar)



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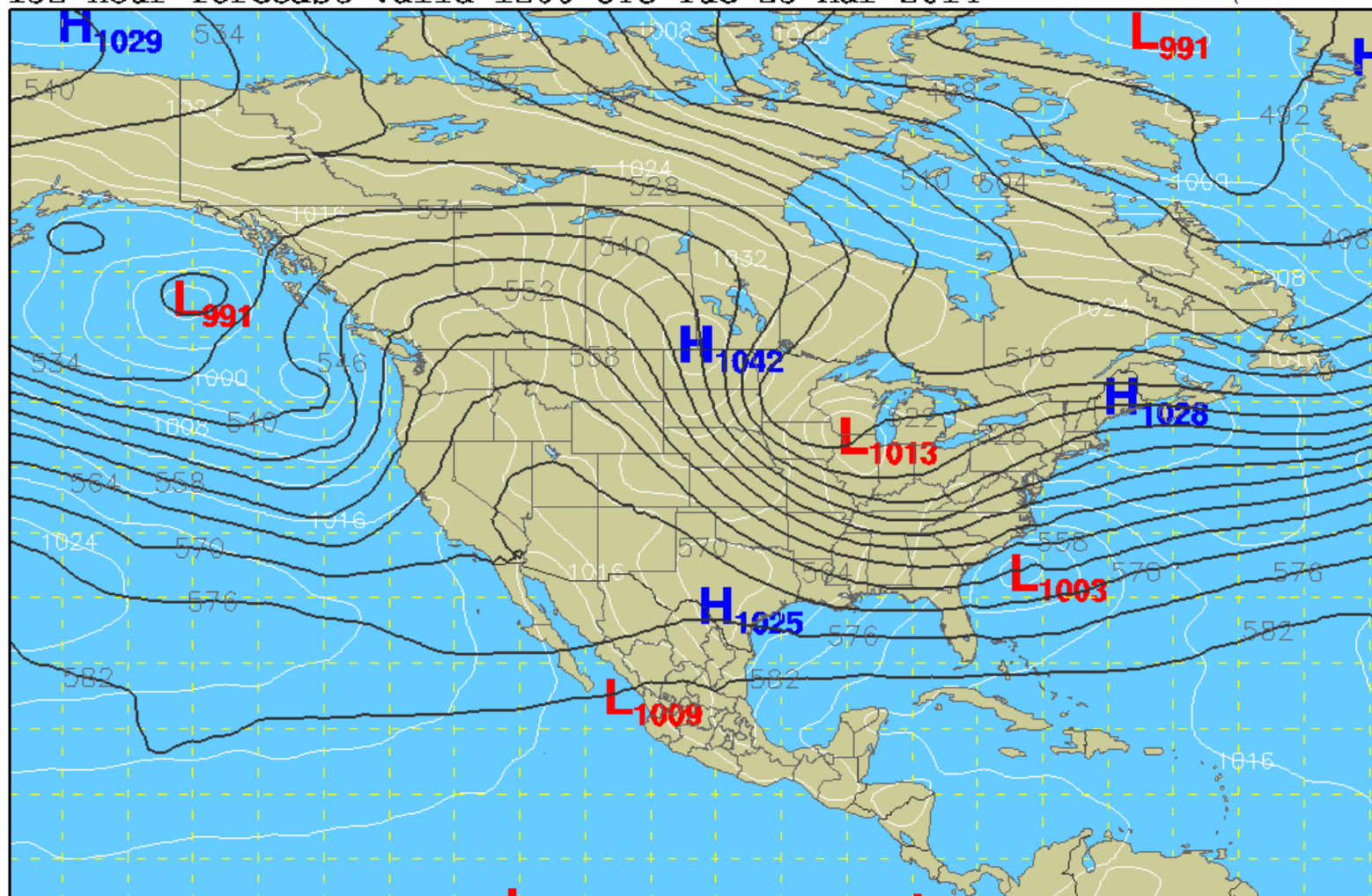
Loop

Speed +

MSLP (mb) / 500 mb Heights (dm)

132-hour forecast valid 1200 UTC Tue 25 Mar 2014

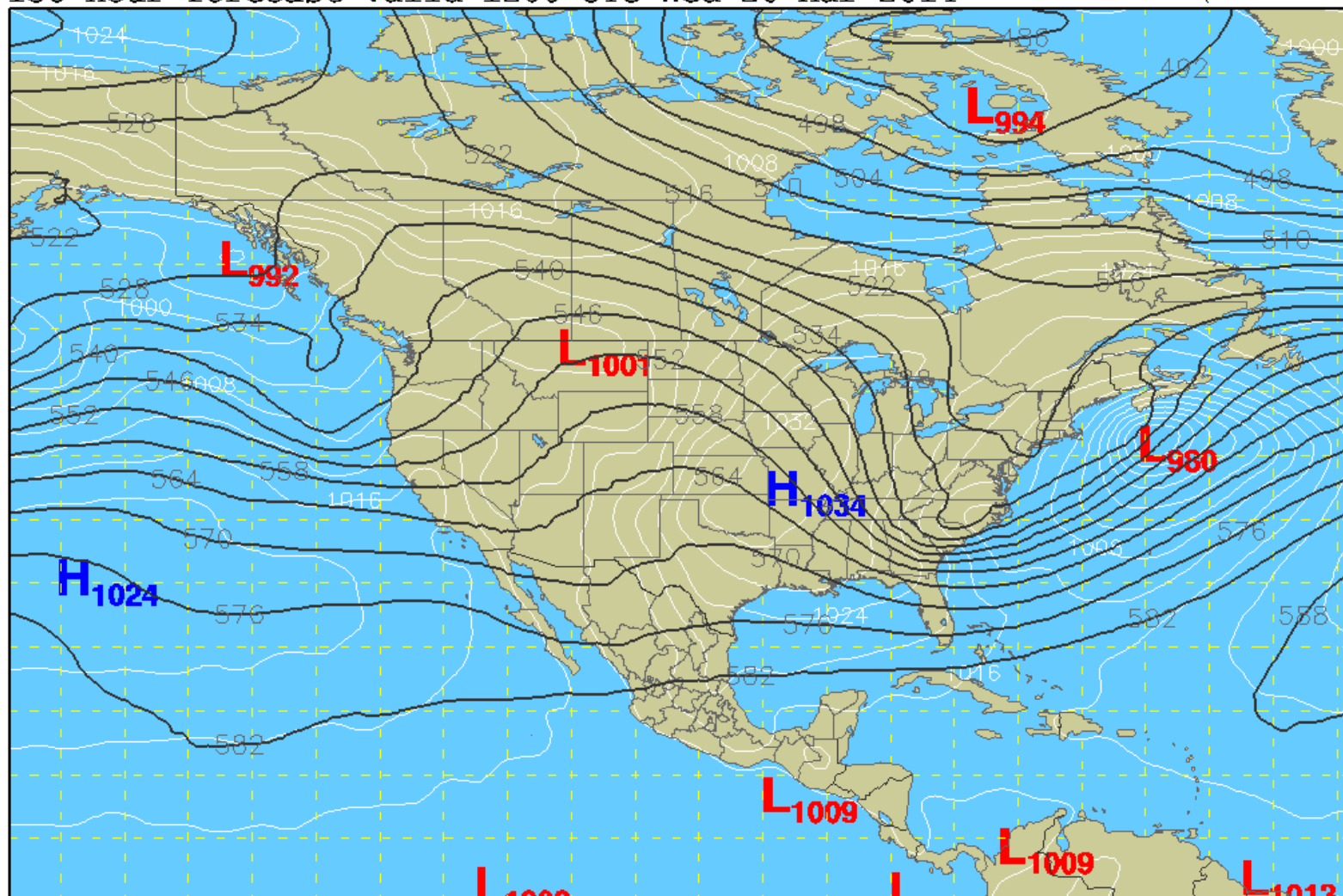
GFS (00z 20 Mar)



MSLP (mb) / 500 mb Heights (dm)

156-hour forecast valid 1200 UTC Wed 26 Mar 2014

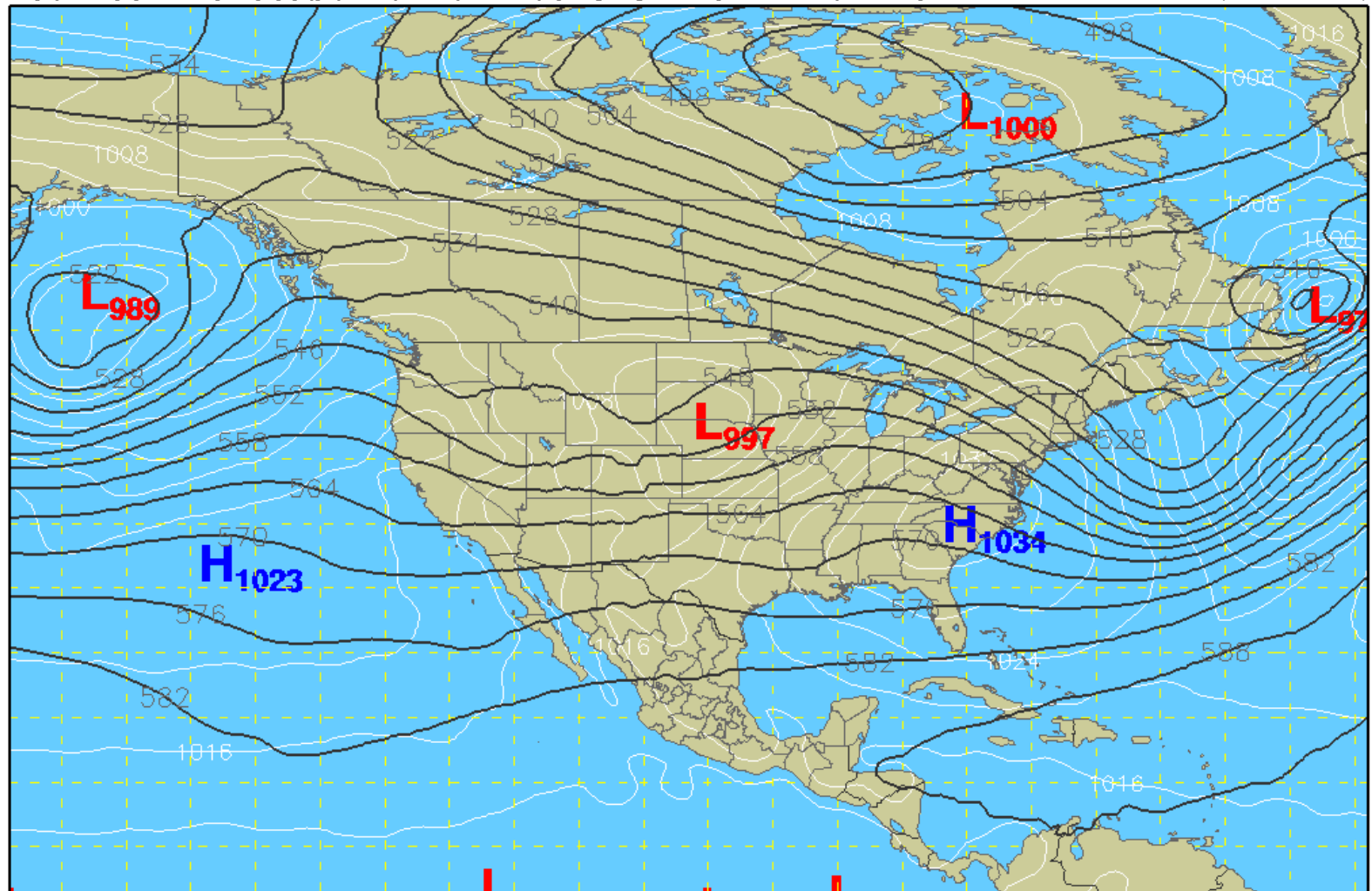
GFS (00z 20 Mar)



MSLP (mb) / 500 mb Heights (dm)

180-hour forecast valid 1200 UTC Thu 27 Mar 2014

GFS (00z 20 Mar)



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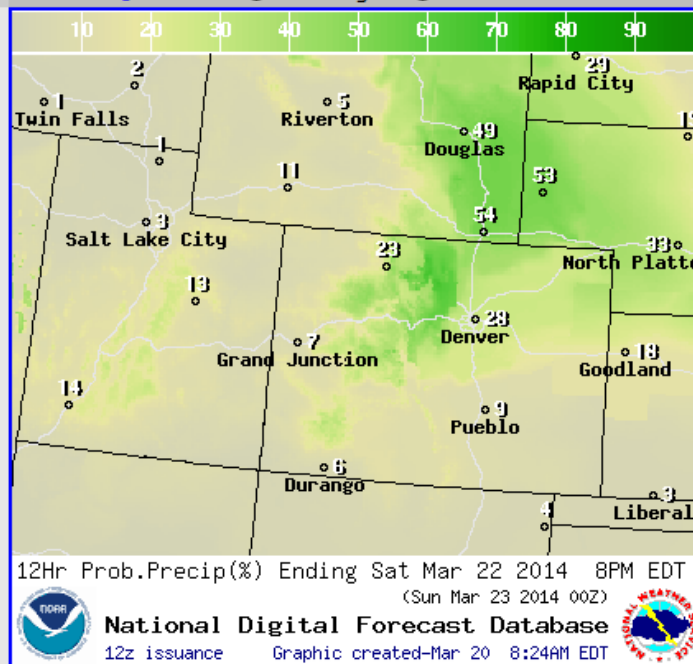
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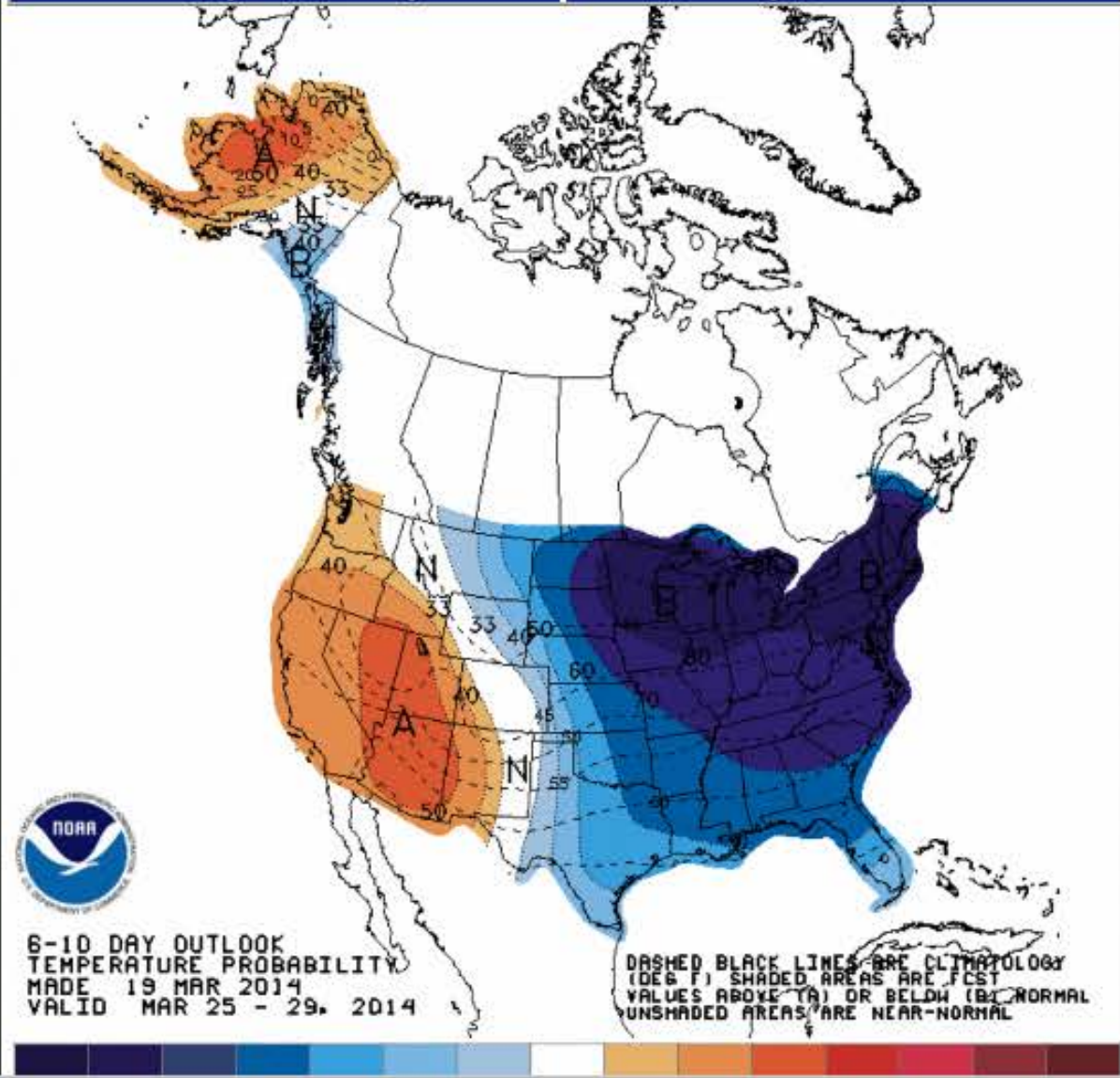
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Tuesday Night	Low	PoP12	8pm 2am
Wednesday	High	PoP12	8am 2pm

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6-10 Day Outlook Temperature	(Interactive Display) Precipitation	One Month Outlook Temperature	Precipitation
8-14 Day Outlook Temperature	(Interactive Display) Precipitation	Three Month Outlook Temperature	Precipitation
U.S. Hazards Outlook 3-7 Day 8-14 Day		U.S. Drought Information Monitor Monthly Outlook Seasonal Outlook	



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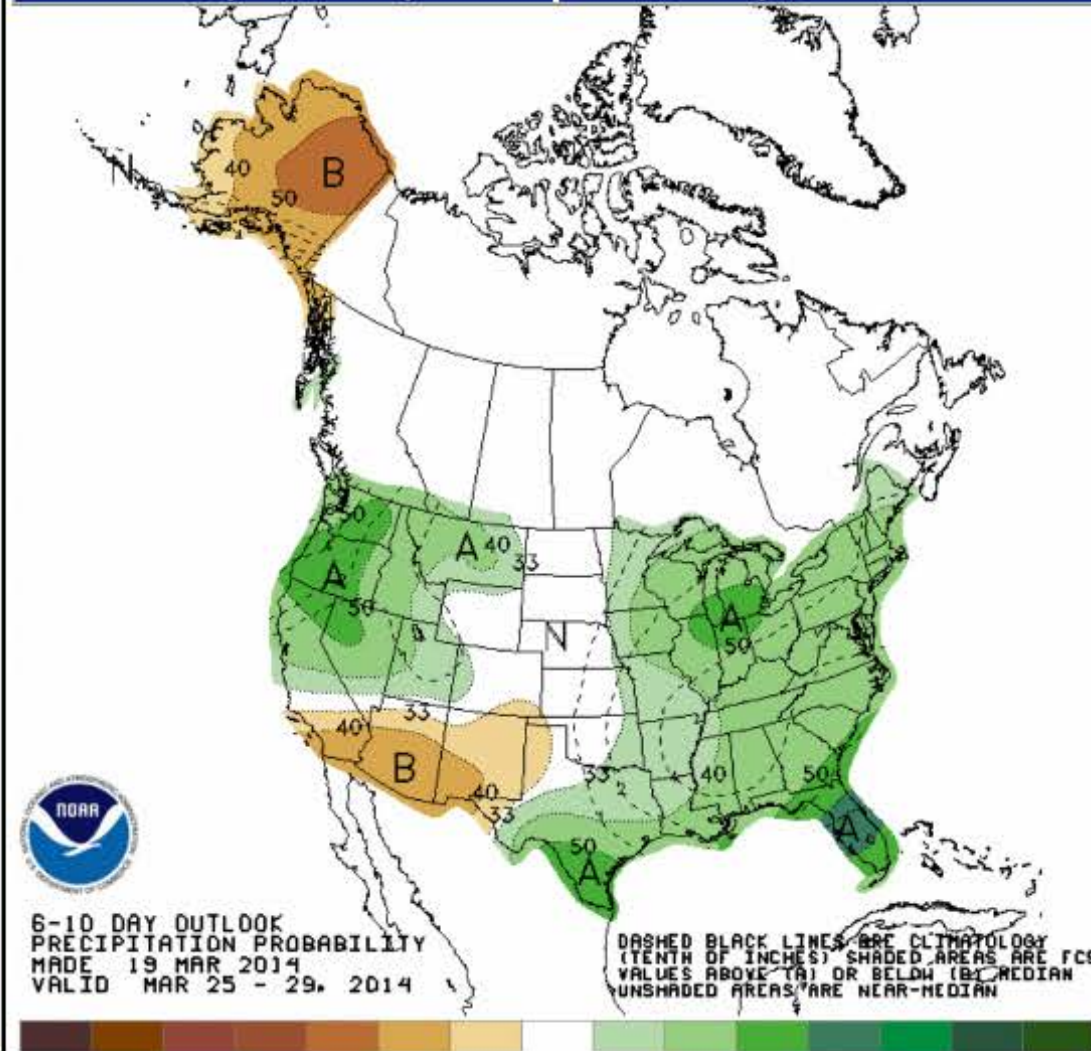
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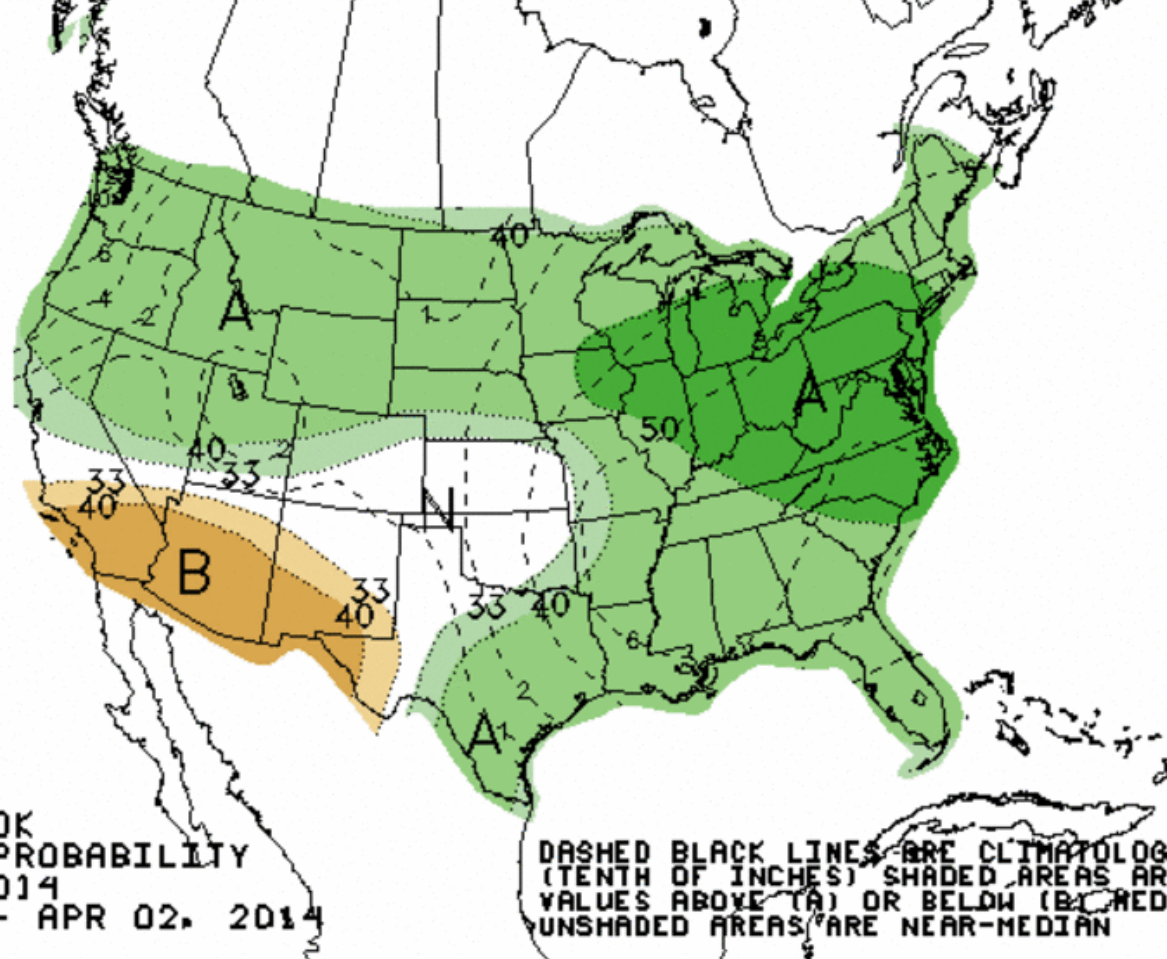
Click on product title to go to product page. Move cursor over product parameter name to display the graphic -- click to enlarge. Links to these same products are also available below.

6-10 Day Outlook (Interactive Display)		One Month Outlook	
Temperature	Precipitation	Temperature	Precipitation
8-14 Day Outlook (Interactive Display)		Three Month Outlook	
Temperature	Precipitation	Temperature	Precipitation
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3-7 Day	8-14 Day	Monitor	Monthly Outlook Seasonal Outlook

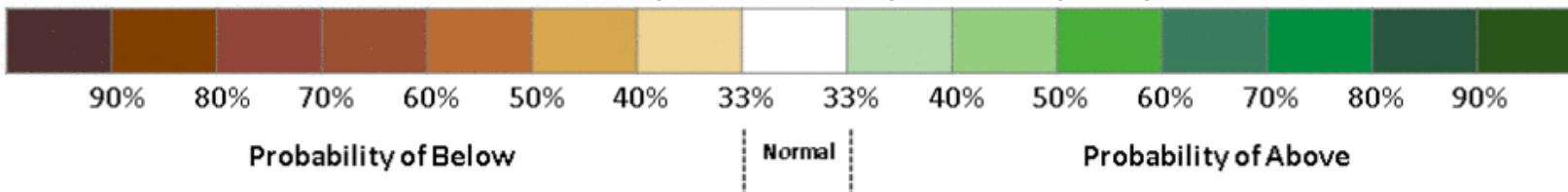


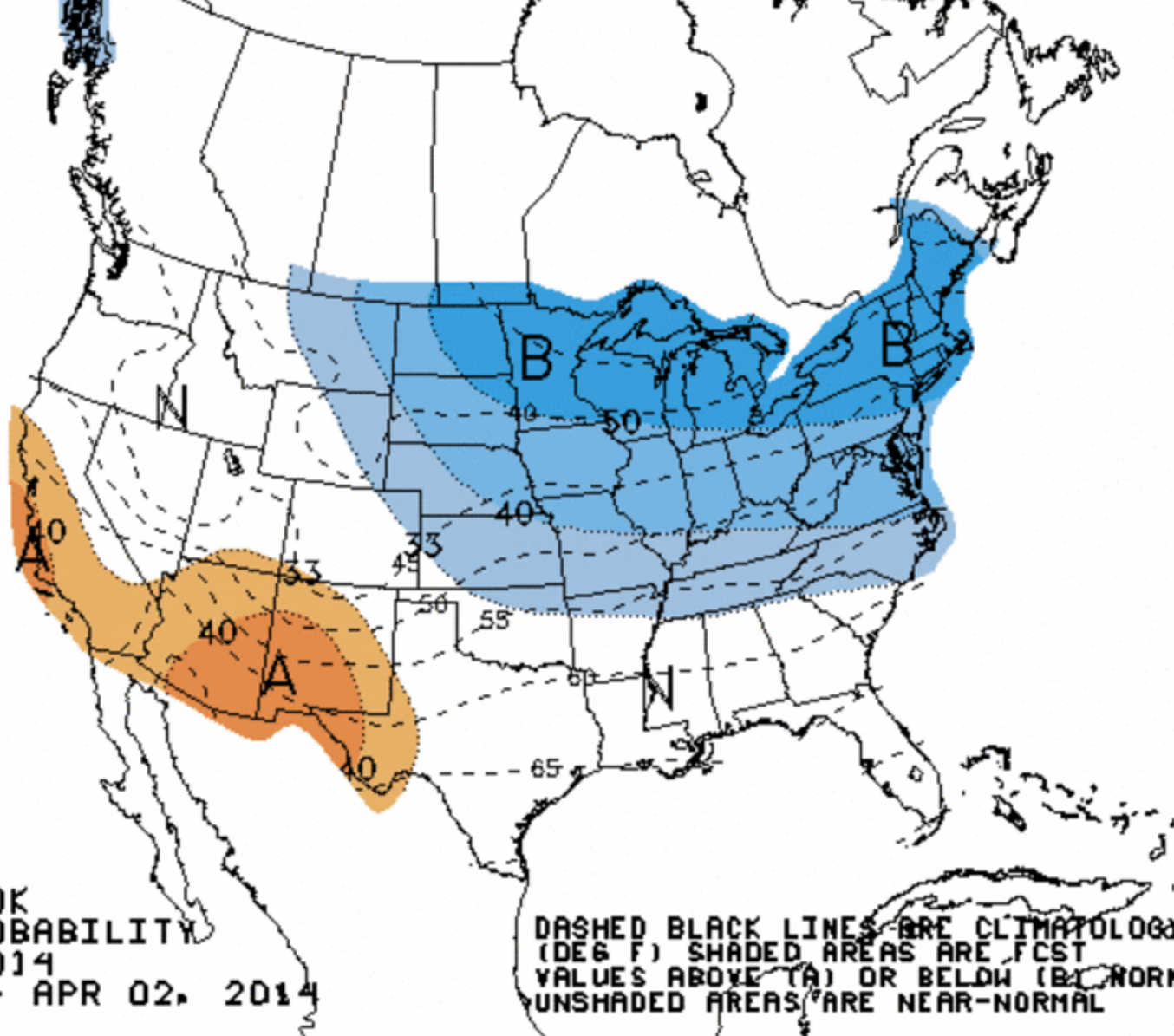


8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 19 MAR 2014
VALID MAR 27 - APR 02, 2014



DASHED BLACK LINES ARE CLIMATOLOGY
(TENTH OF INCHES) SHADED AREAS ARE FCS
VALUES ABOVE (A) OR BELOW (B) MEDIAN
UNSHADED AREAS ARE NEAR-MEDIAN

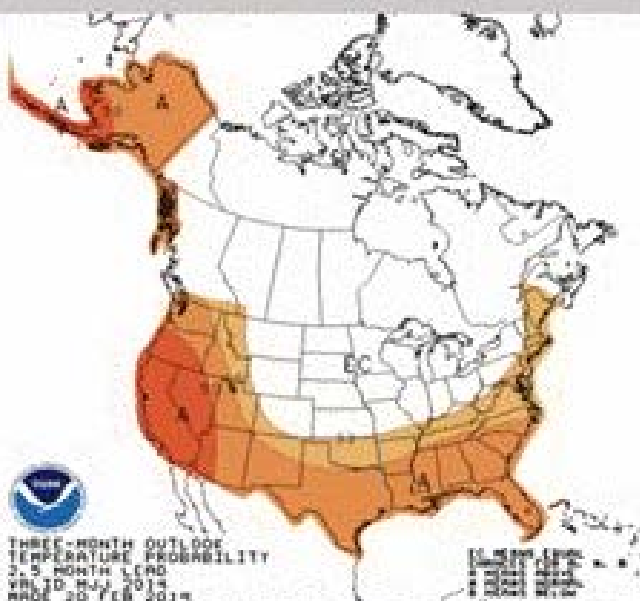




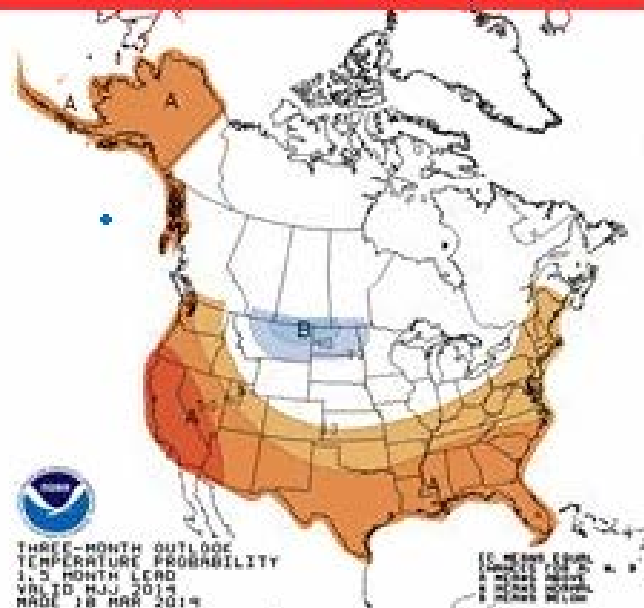
8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 19 MAR 2014
VALID MAR 27 - APR 02, 2014

DASHED BLACK LINES ARE CLIMATOLOGY
(DEG F) SHADED AREAS ARE FCST
VALUES ABOVE (A) OR BELOW (B) NORMAL
UNSHADED AREAS ARE NEAR-NORMAL

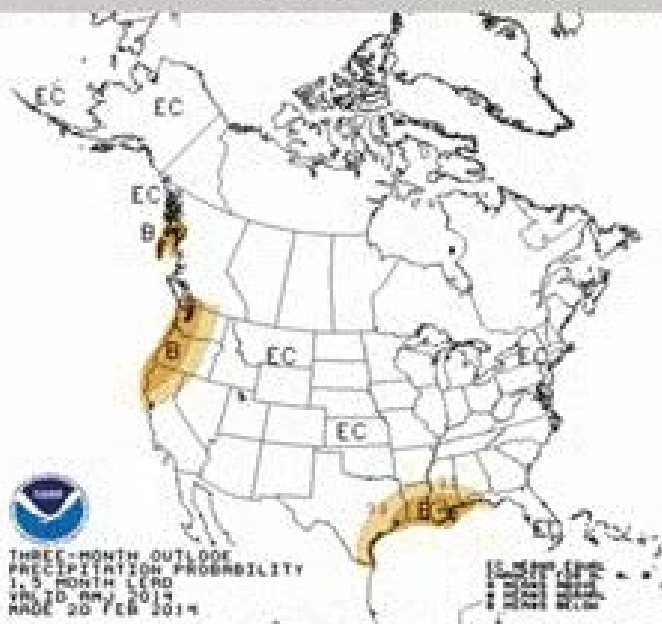
OLD OUTLOOK



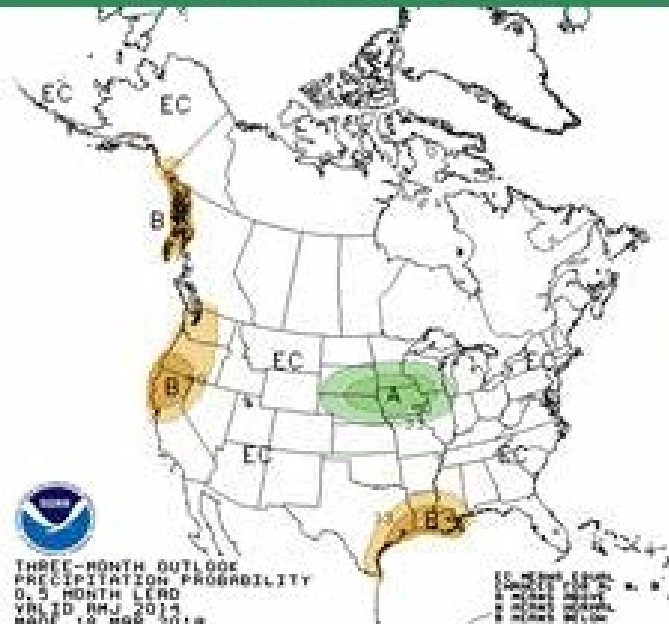
** NEW OUTLOOK **



OLD OUTLOOK



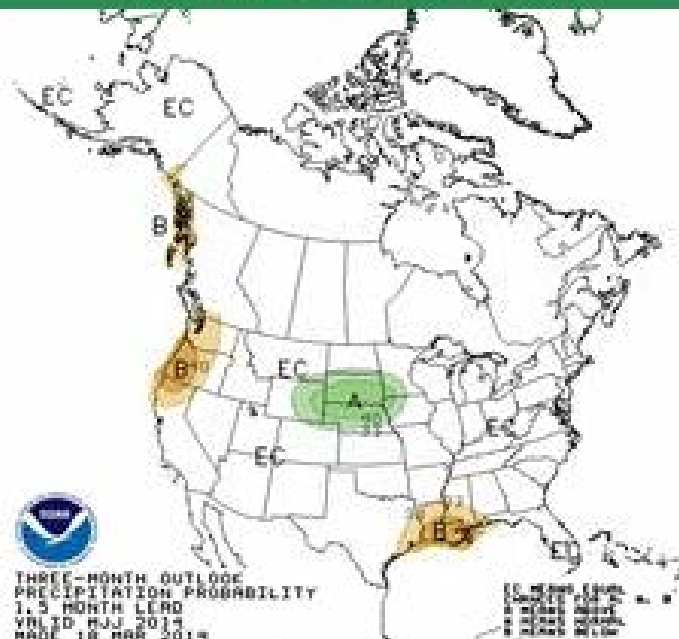
★★ NEW OUTLOOK ★★



OLD OUTLOOK

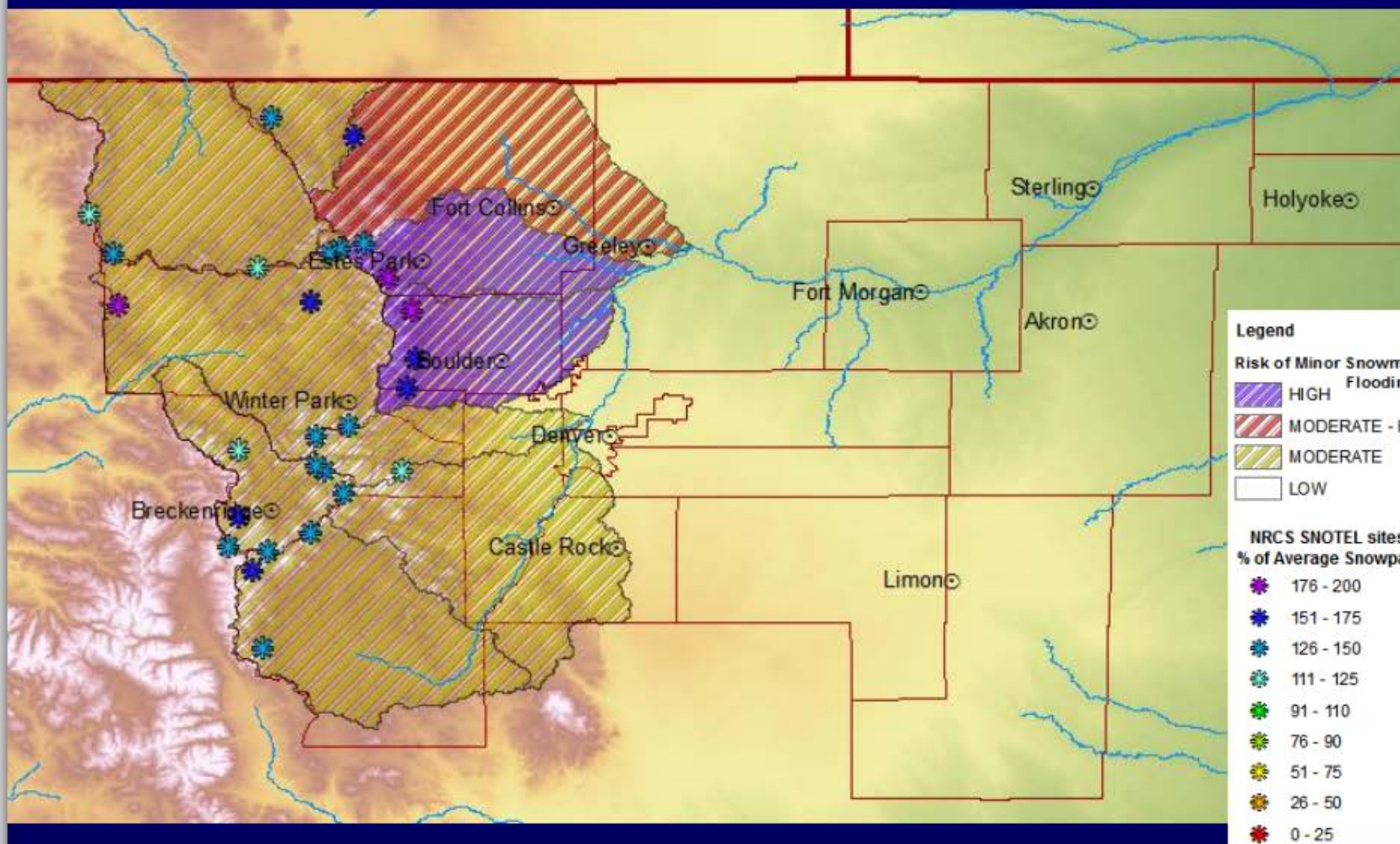


** NEW OUTLOOK **

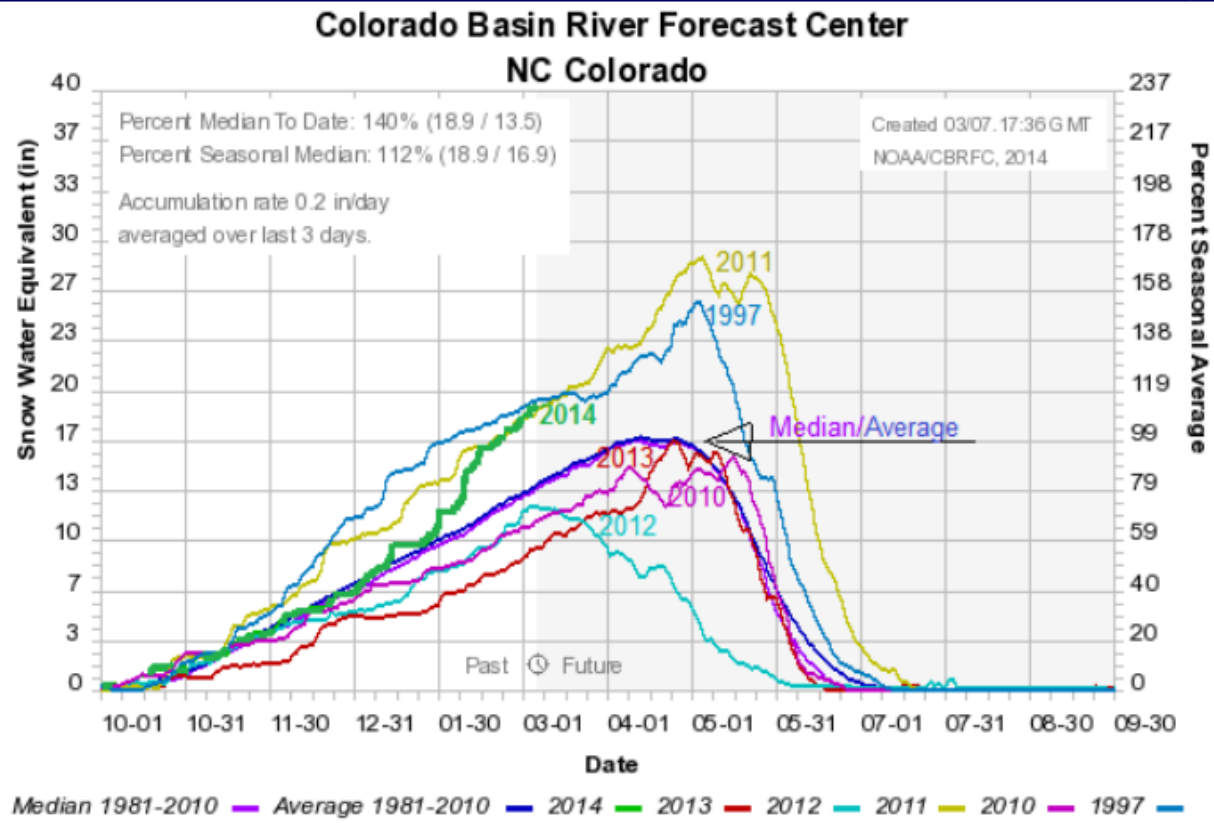


Spring Snowmelt Flood Potential Outlook Graphic

March 6th, 2014



Snowpack

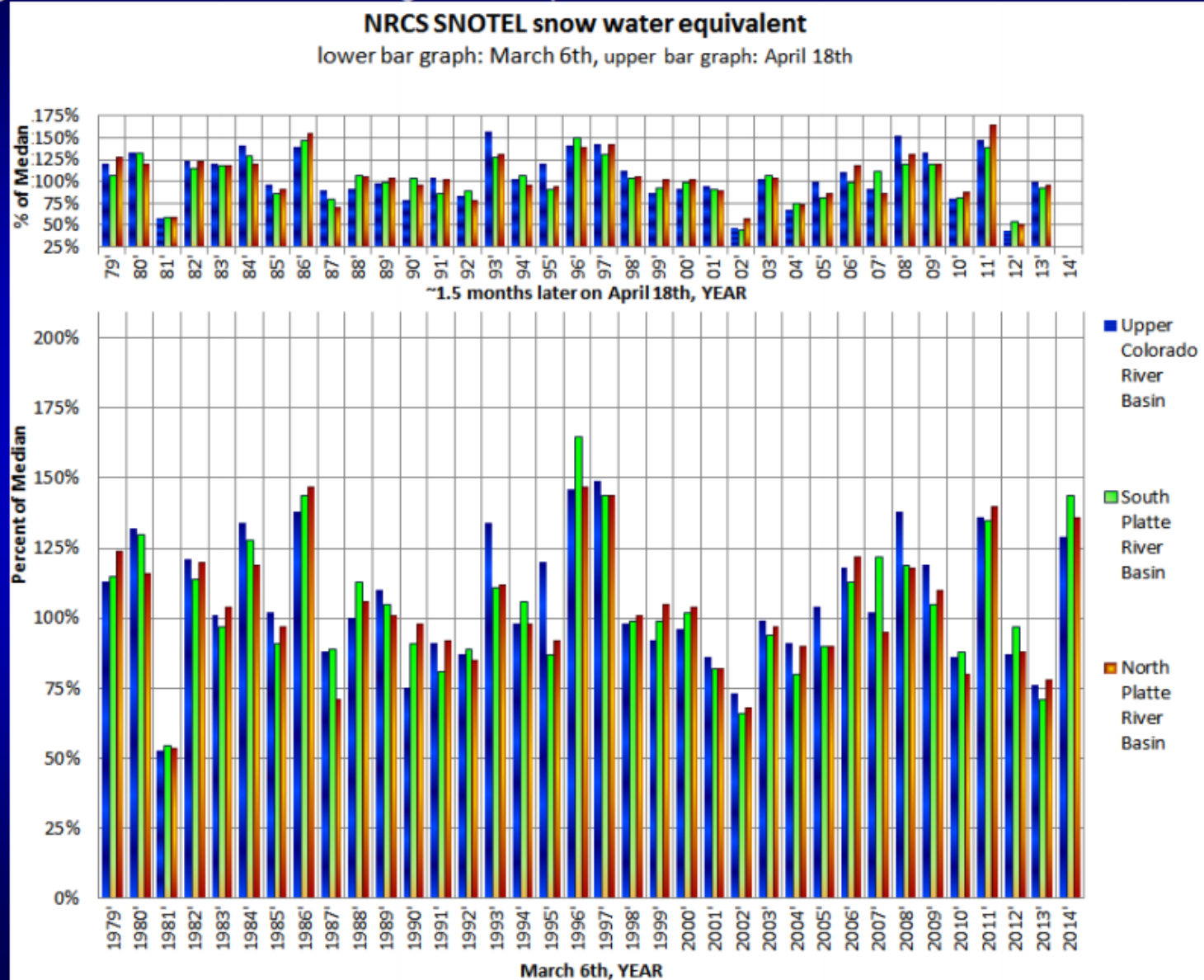


* SNOTEL data for this graph provided by the NRCS.

Mountain snowpack remains above to much above average with near record snowpack observed at several locations near the Continental Divide. The current high country snowpack is already near the typical seasonal peak values. Approximately 20 percent of the snow accumulation season remains.

Additional time series graphs can be produced on the Colorado Basin RFC website at: <http://www.cbrfc.noaa.gov/station/sweplot/snowgroup.php>

The early March % of average mountain snowpack in the South Platte River Basin this year is similar to the high snowpack in 1986, 1997, 2011 but remains below the snowpack in March 1996.



Factors that will impact mountain snowmelt

- Stream levels during the melt.
- Groundwater/soil moisture.
- Future snow
- When the snow melts
- How fast the snowpack melts
- Future rainfall amounts and timing
- Whether rain (especially a warm rain) falls on the snowpack.

Additional flood risks in areas severely impacted by September 2013 floods

- Reduced capacity of creeks due to sedimentation, alluvial deposits, etc.
- Debris dams
- Creeks have changed their location
- Debris flows and landslides
- Good news is FEMA recently provided funding to remove debris, shore up damaged banks etc – to the 5 year flood level. The work has begun in Boulder County.