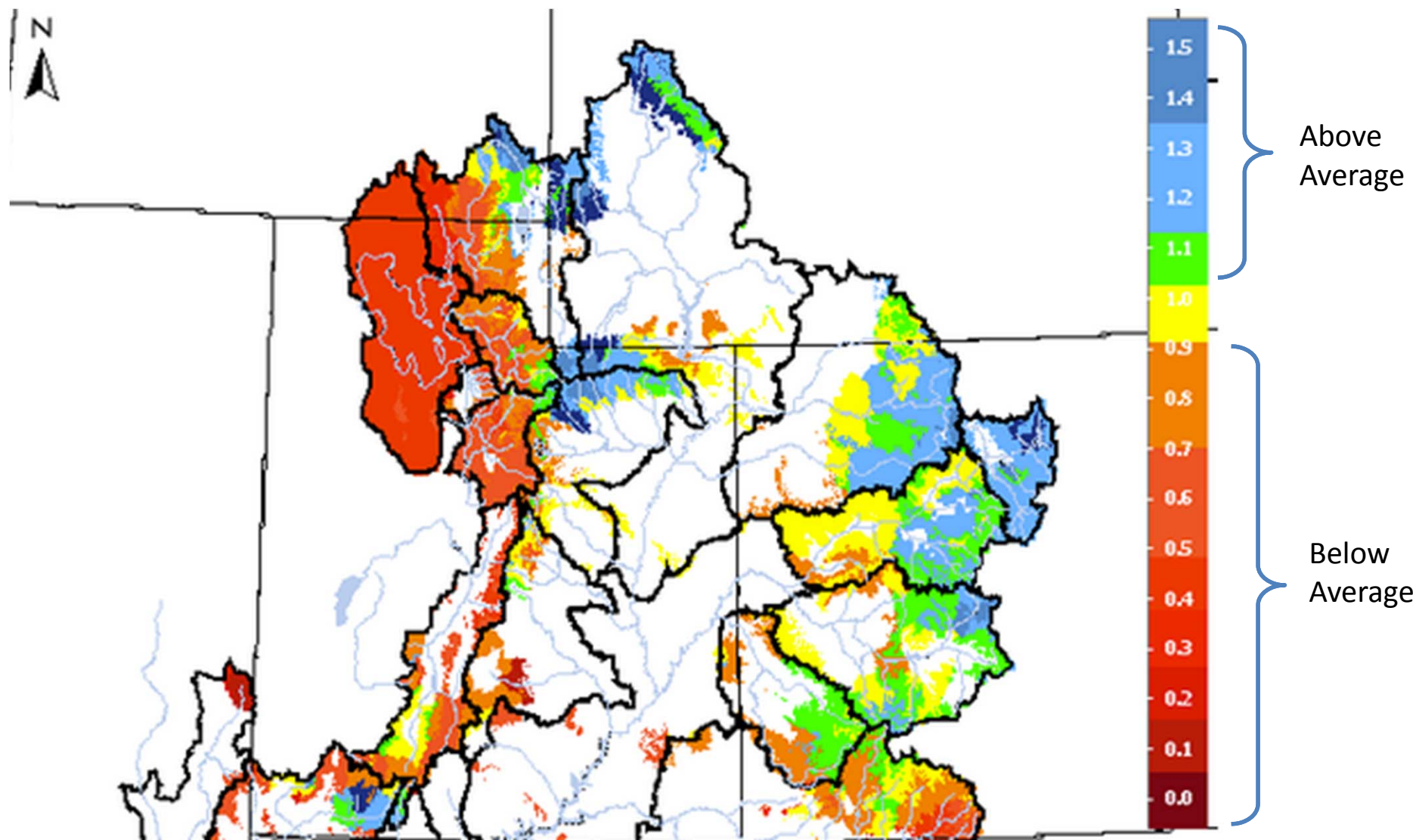


April 2015
Aspinall Unit Operations Meeting

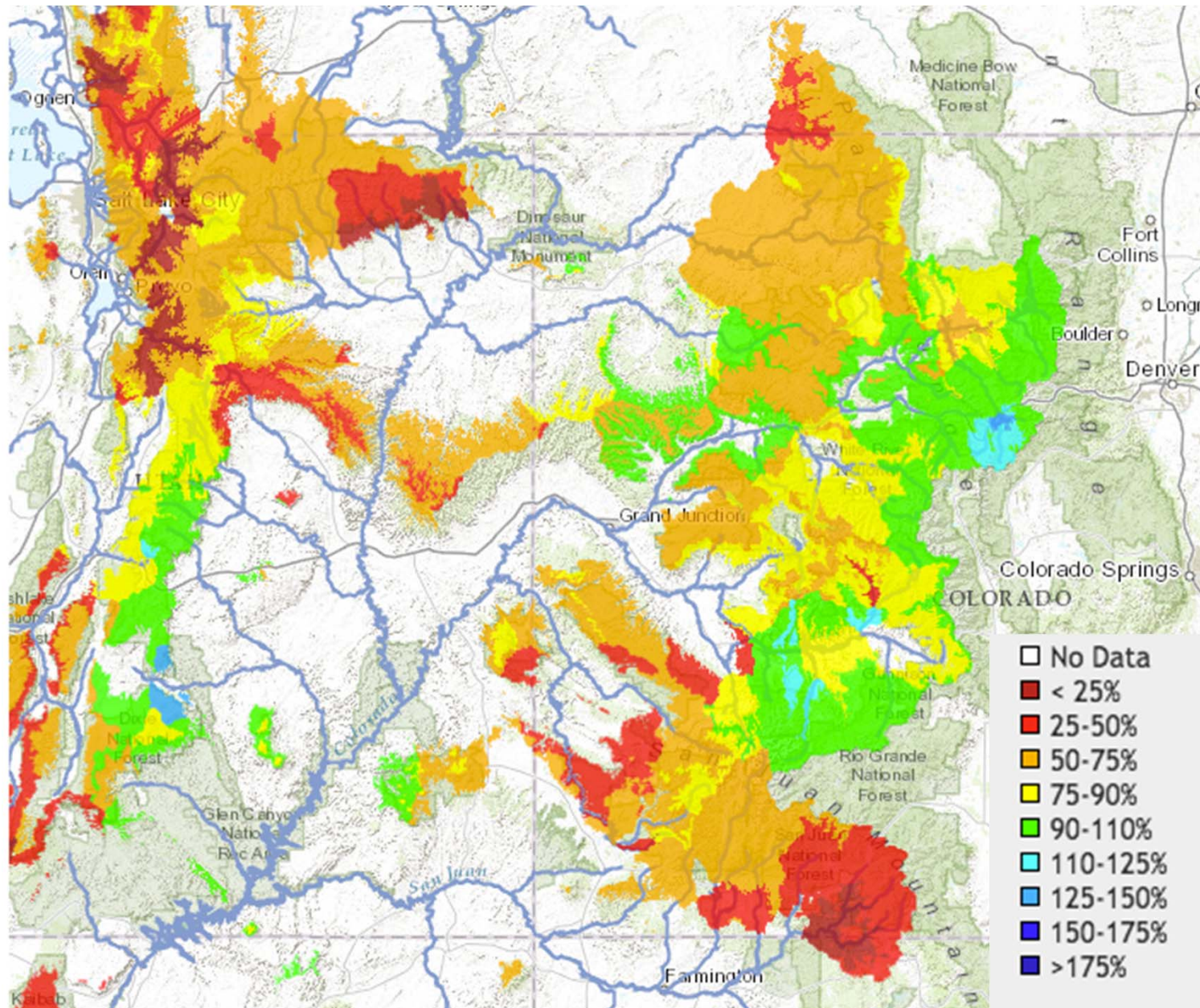
Runoff Forecast Discussion

Greg Smith
Senior Hydrologist
Colorado Basin River Forecast Center

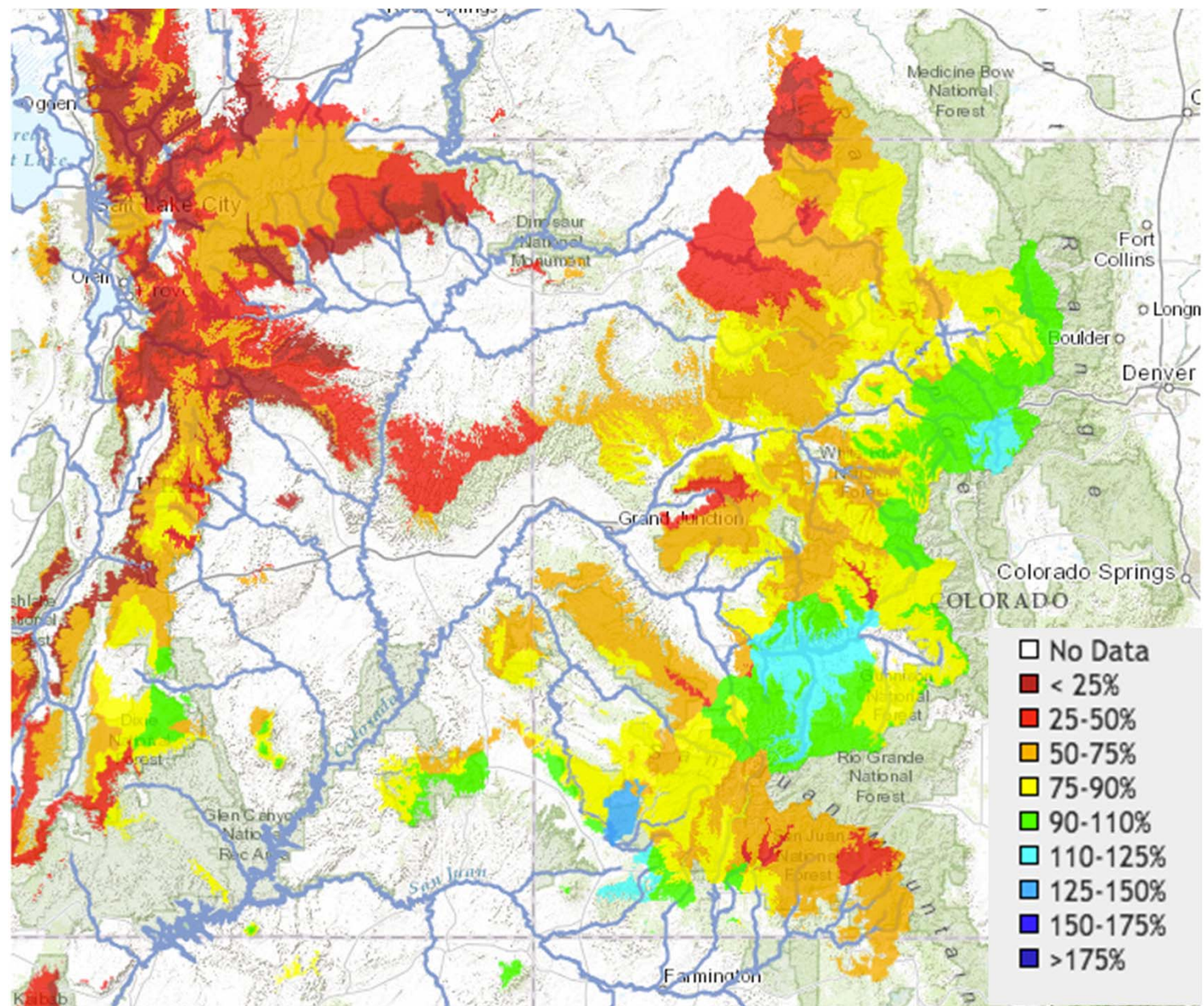
Model Soil Moisture – Entering the Winter Season



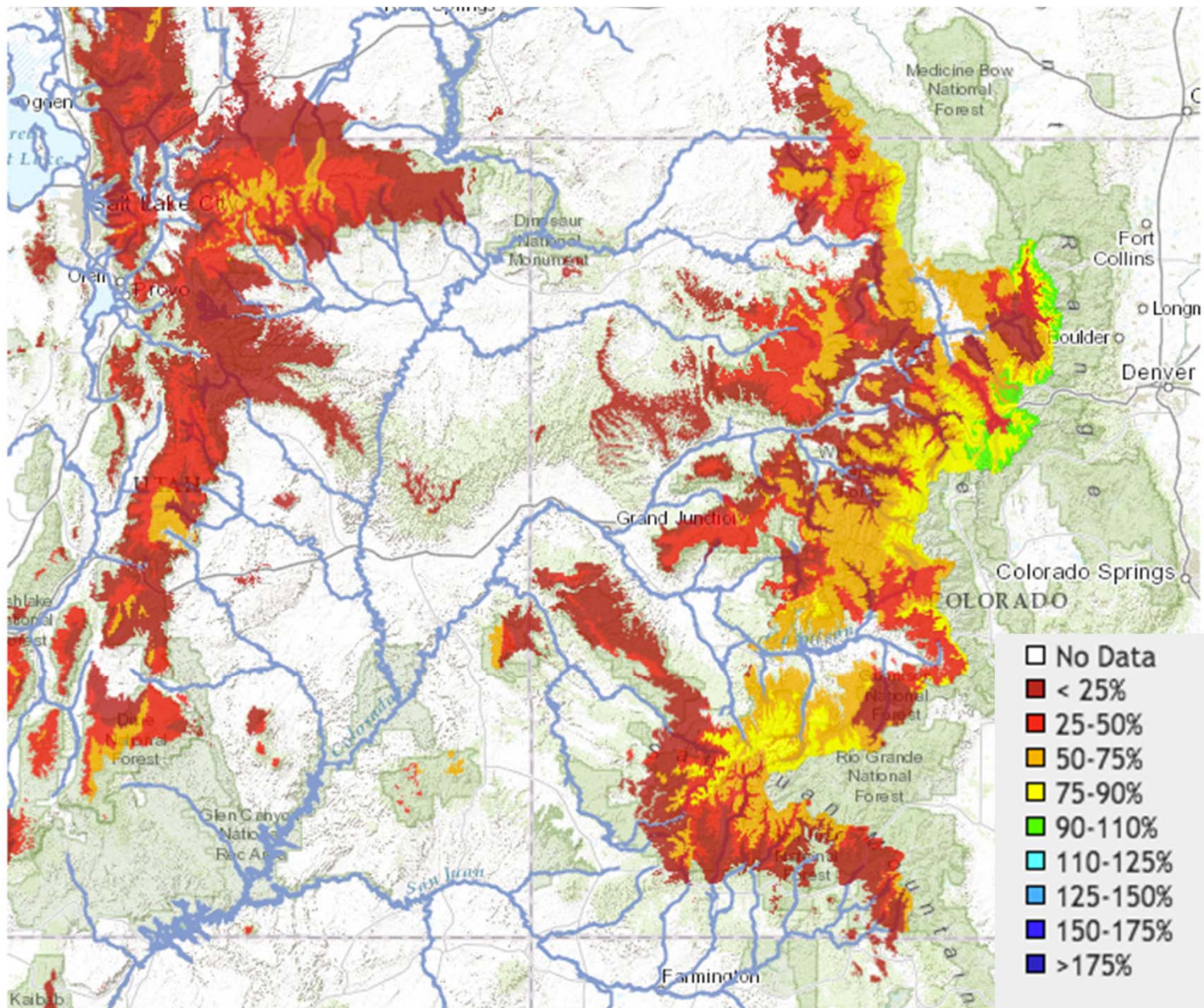
SNOW (as a % of average) – In the CBRFC Forecast Model on 2-1-2015



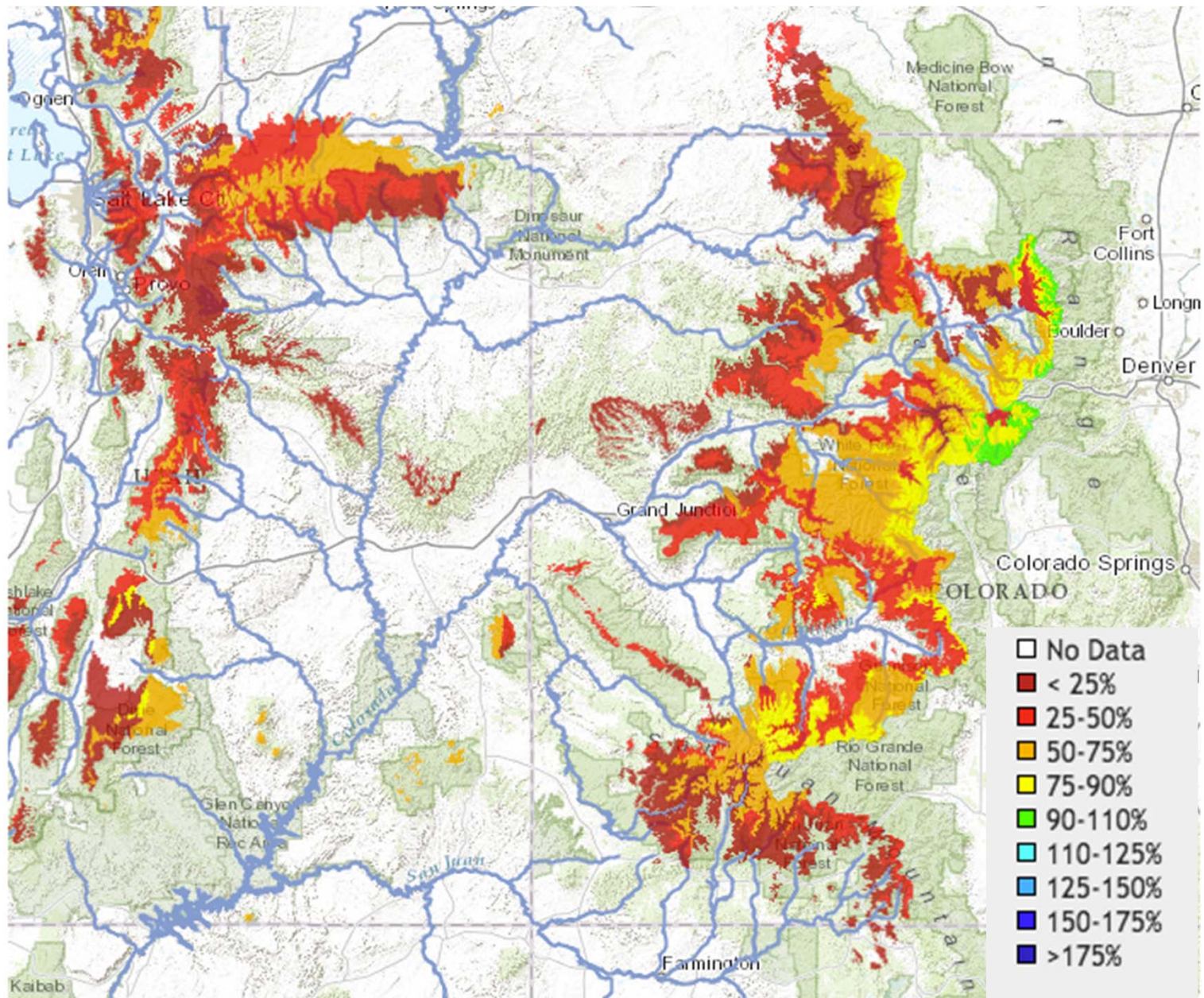
SNOW (as a % of average) – In the CBRFC Forecast Model on 3-1-2015



SNOW (as a % of average) – In the CBRFC Forecast Model on 4-1-2015

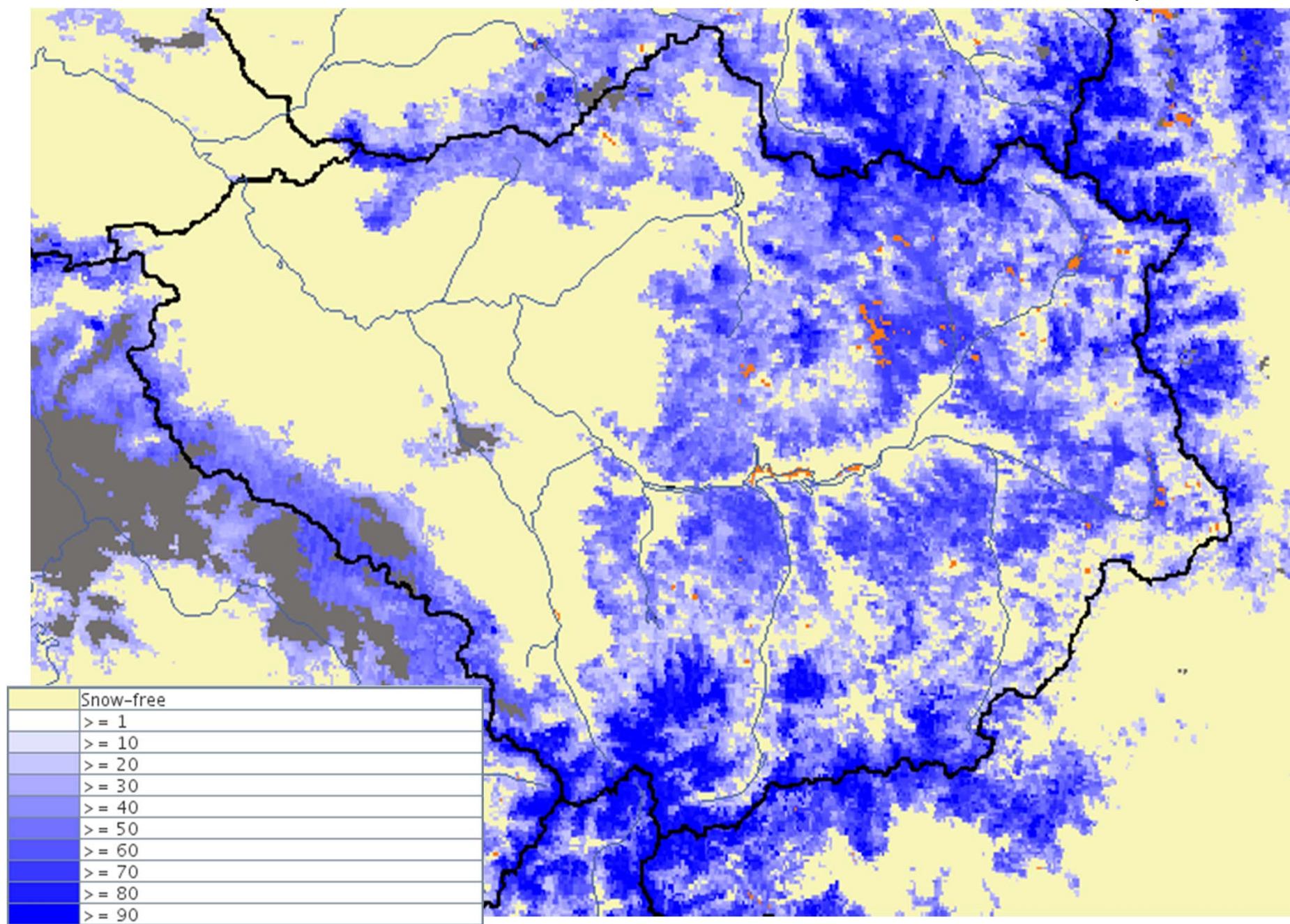


SNOW (as a % of average) – In the CBRFC Forecast Model on 4-19-2015



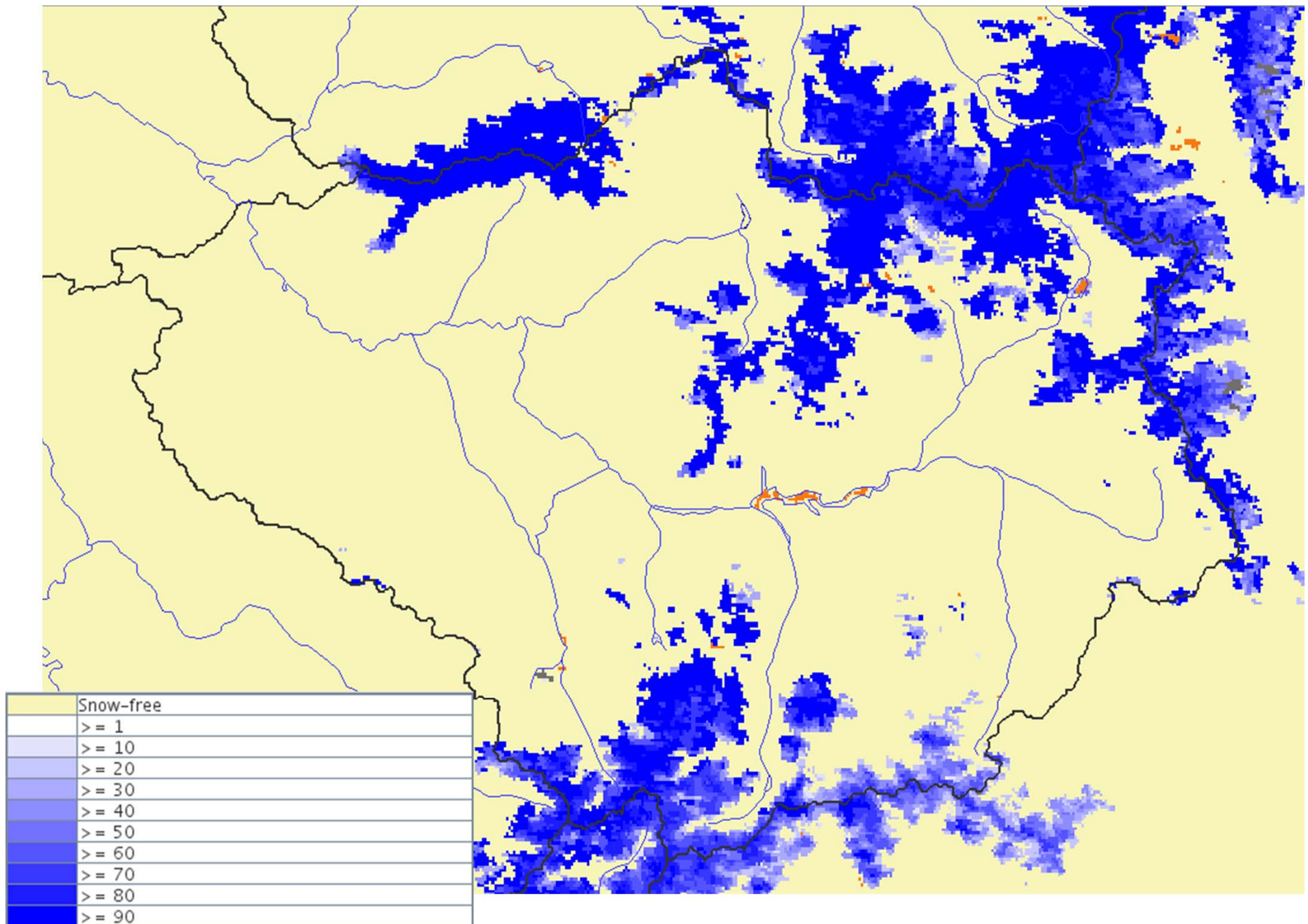
Satellite Derived Snow Cover Gunnison Basin

April 9 2014



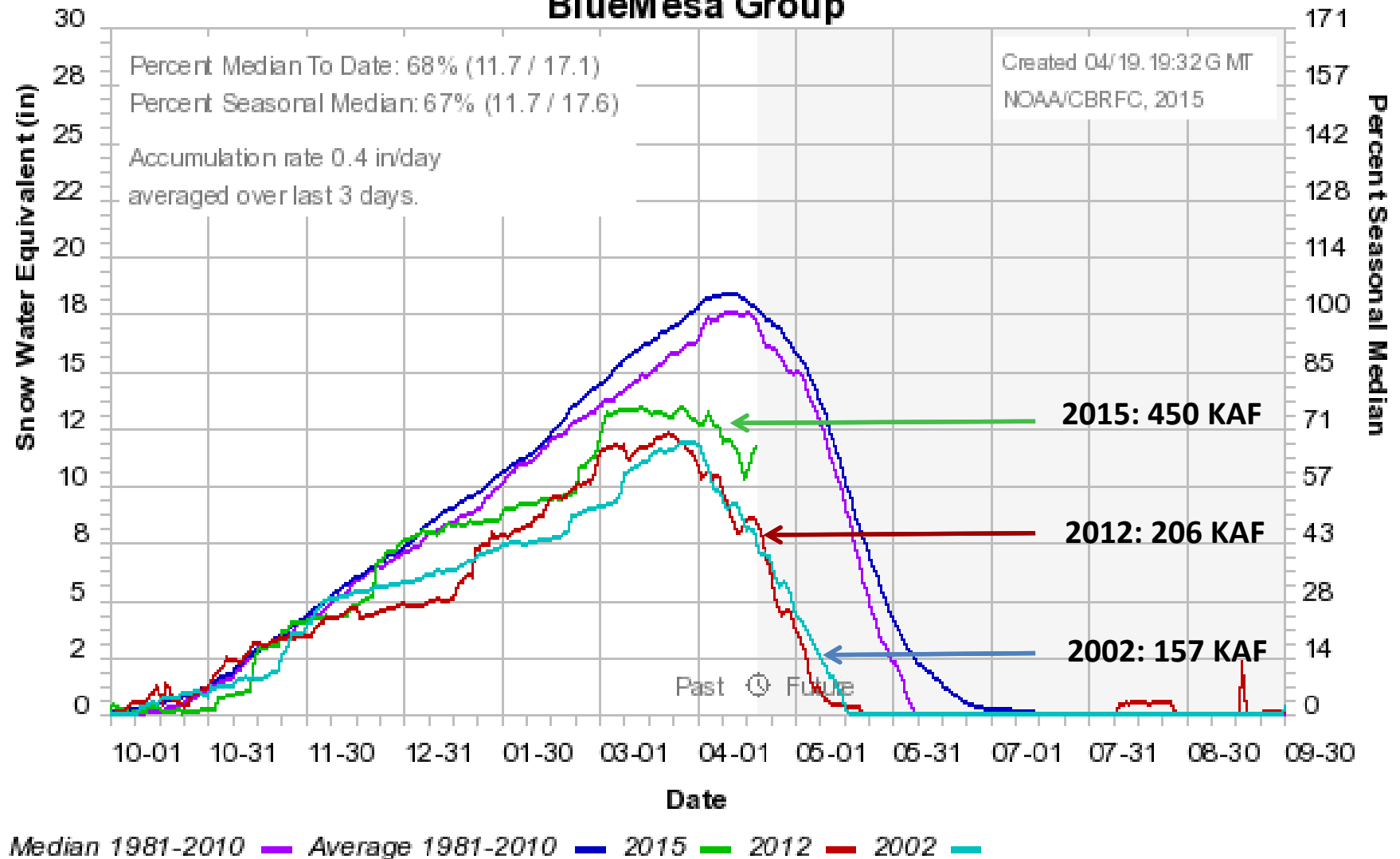
Satellite Derived Snow Cover Gunnison Basin

April 14 2015

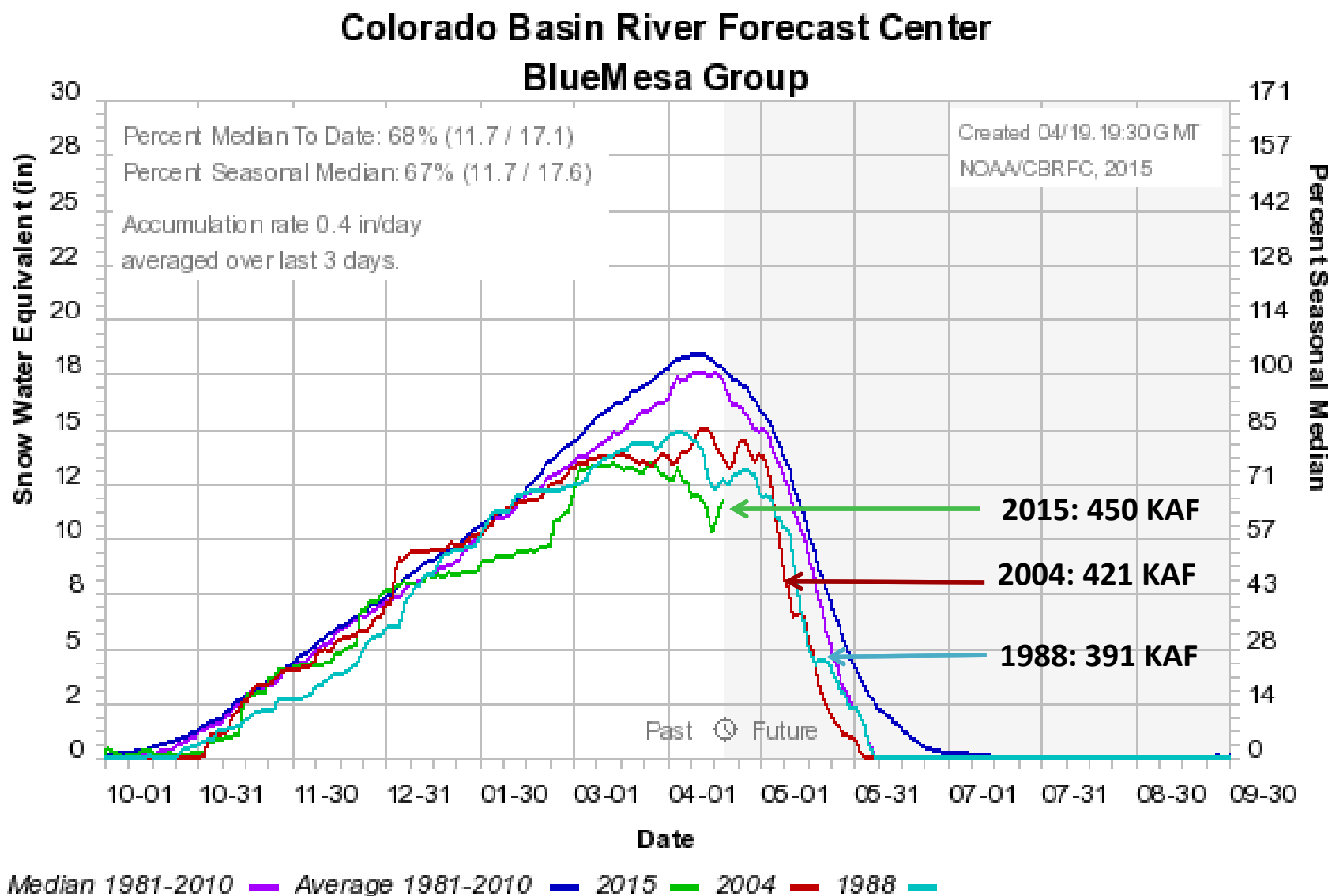


SNOTEL GROUP COMPARISON: 2015 with *Lowest* Snow Years

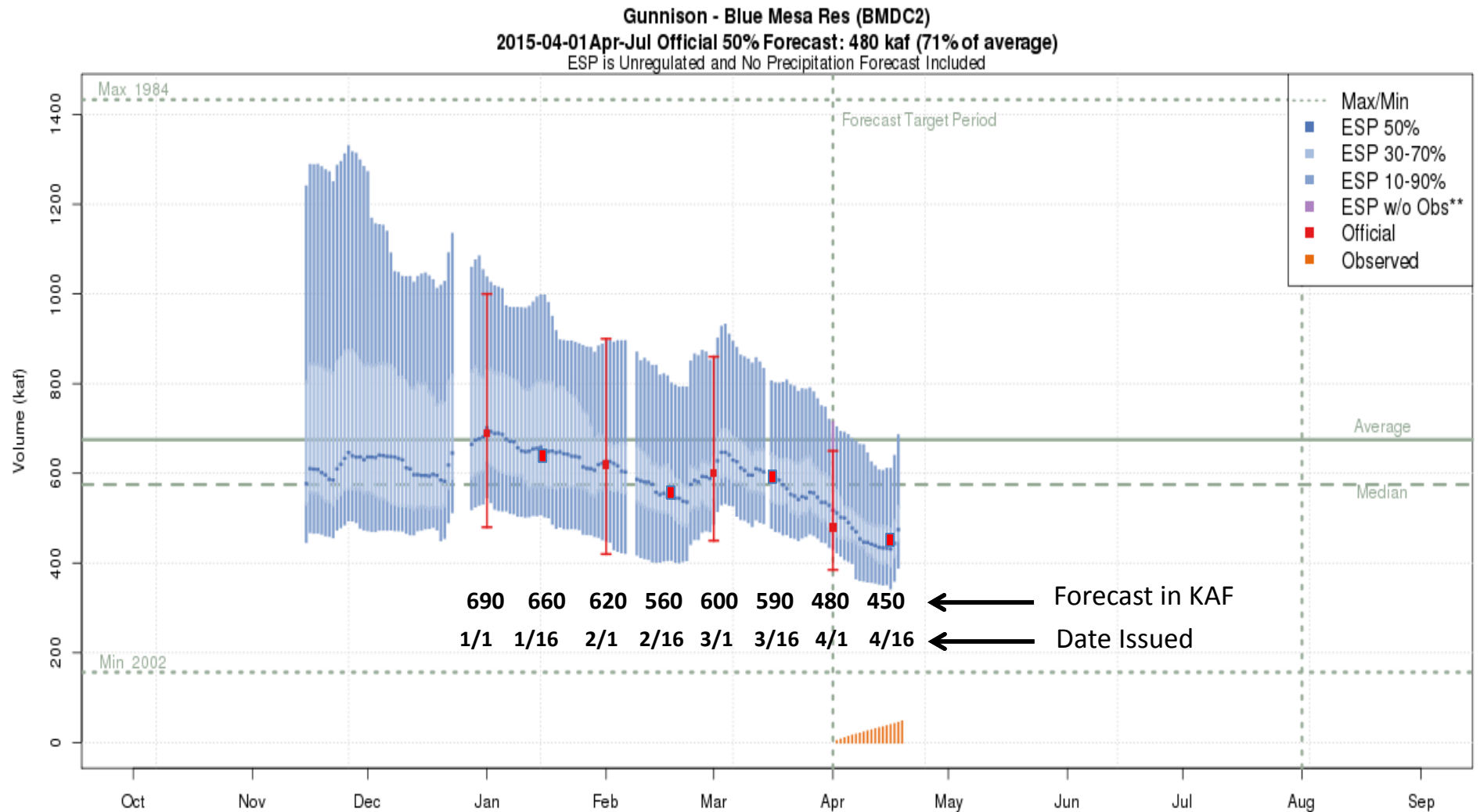
Colorado Basin River Forecast Center BlueMesa Group



SNOTEL GROUP COMPARISON: 2015 with *Similar Patterned* Snow Years

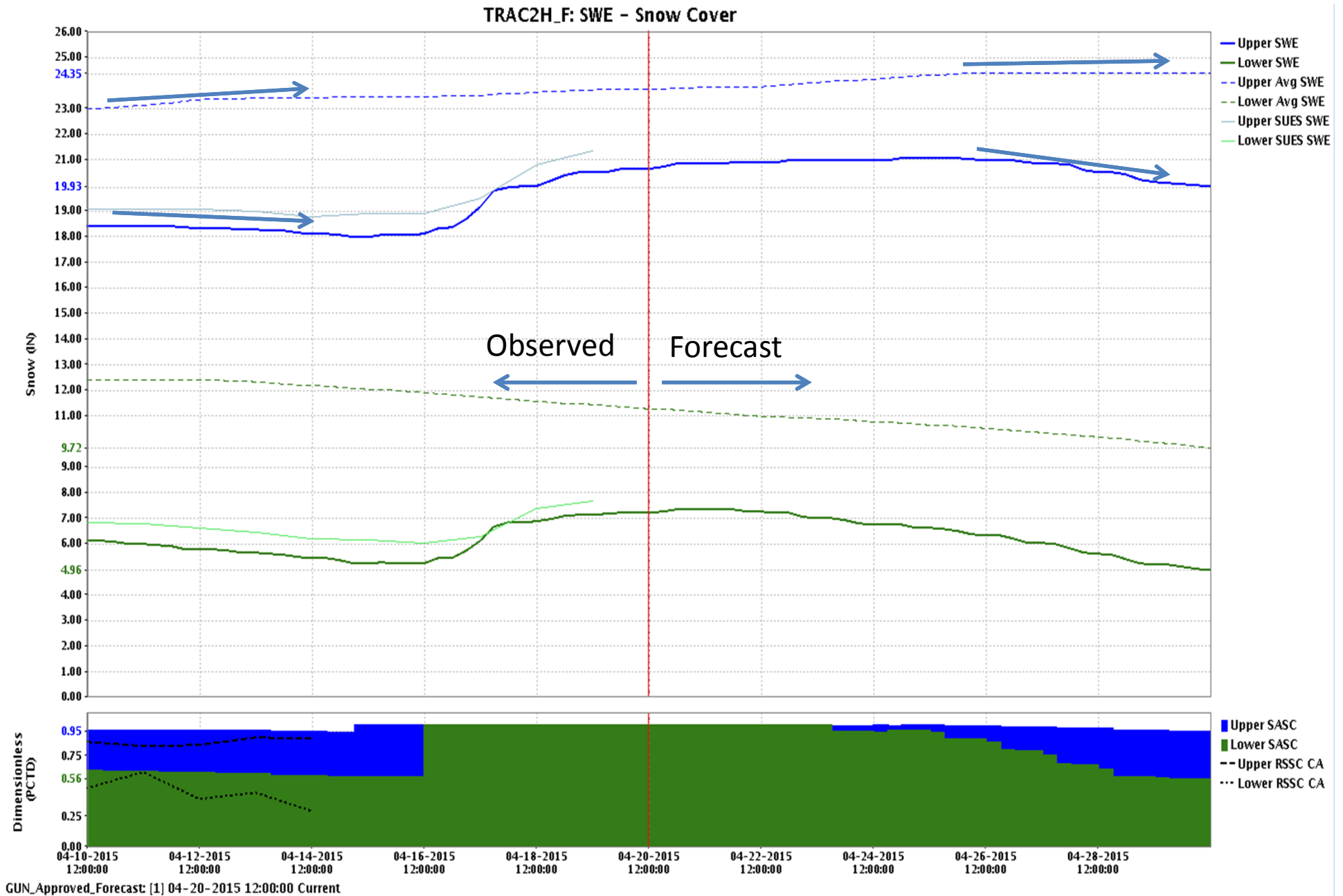


Blue Mesa Inflow – Forecast Evolution 2015



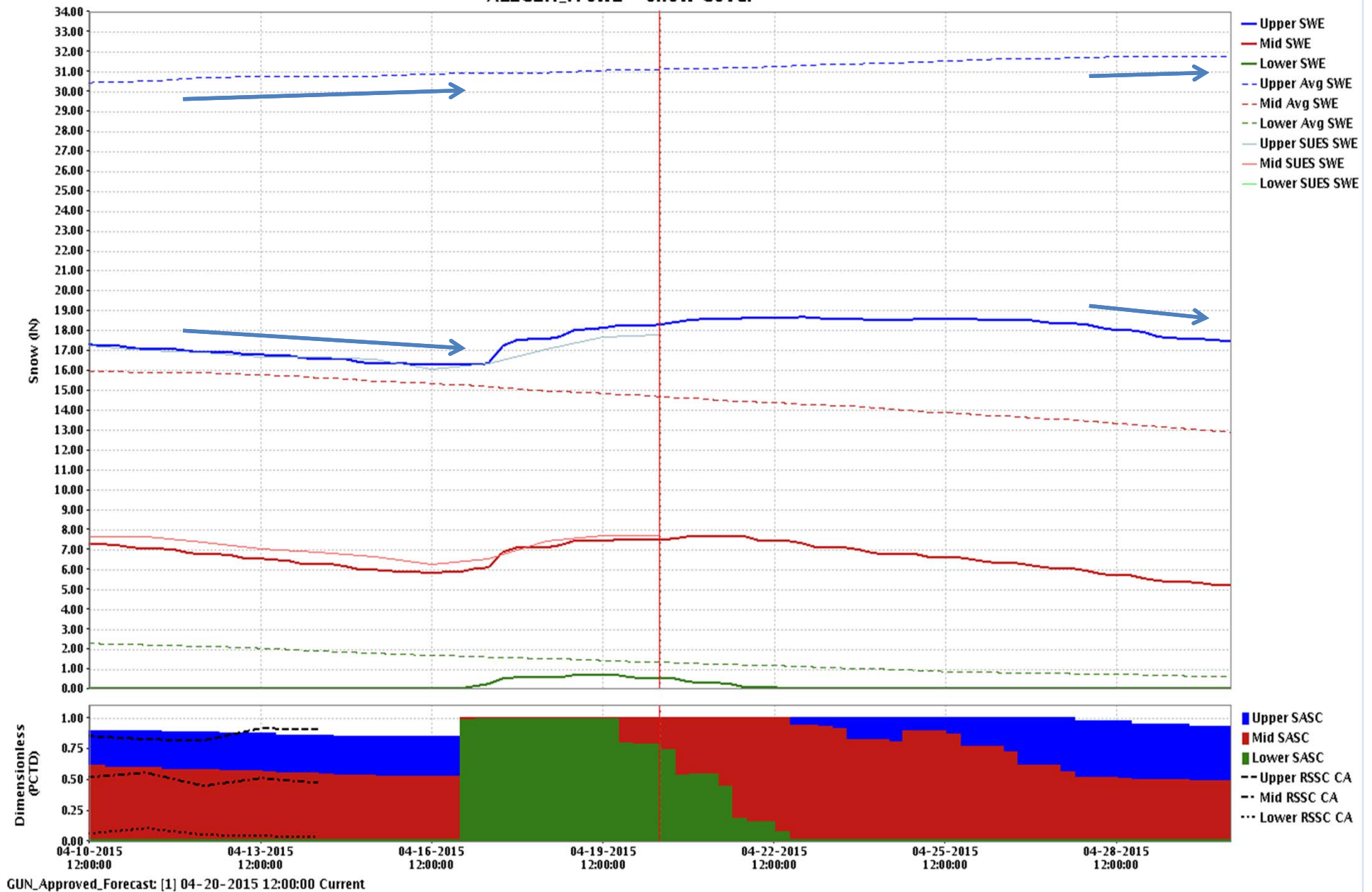
The latest (2015-04-18) 50% ESP forecast is 474 kaf.
Plot Created 2015-04-19 13:51:36, NOAA / NWS / CBRFC
Forecasts in the forecast target period include observed values.

Taylor Park: 2015 Model Snow Trend compared to the 1981-2010 calibration average

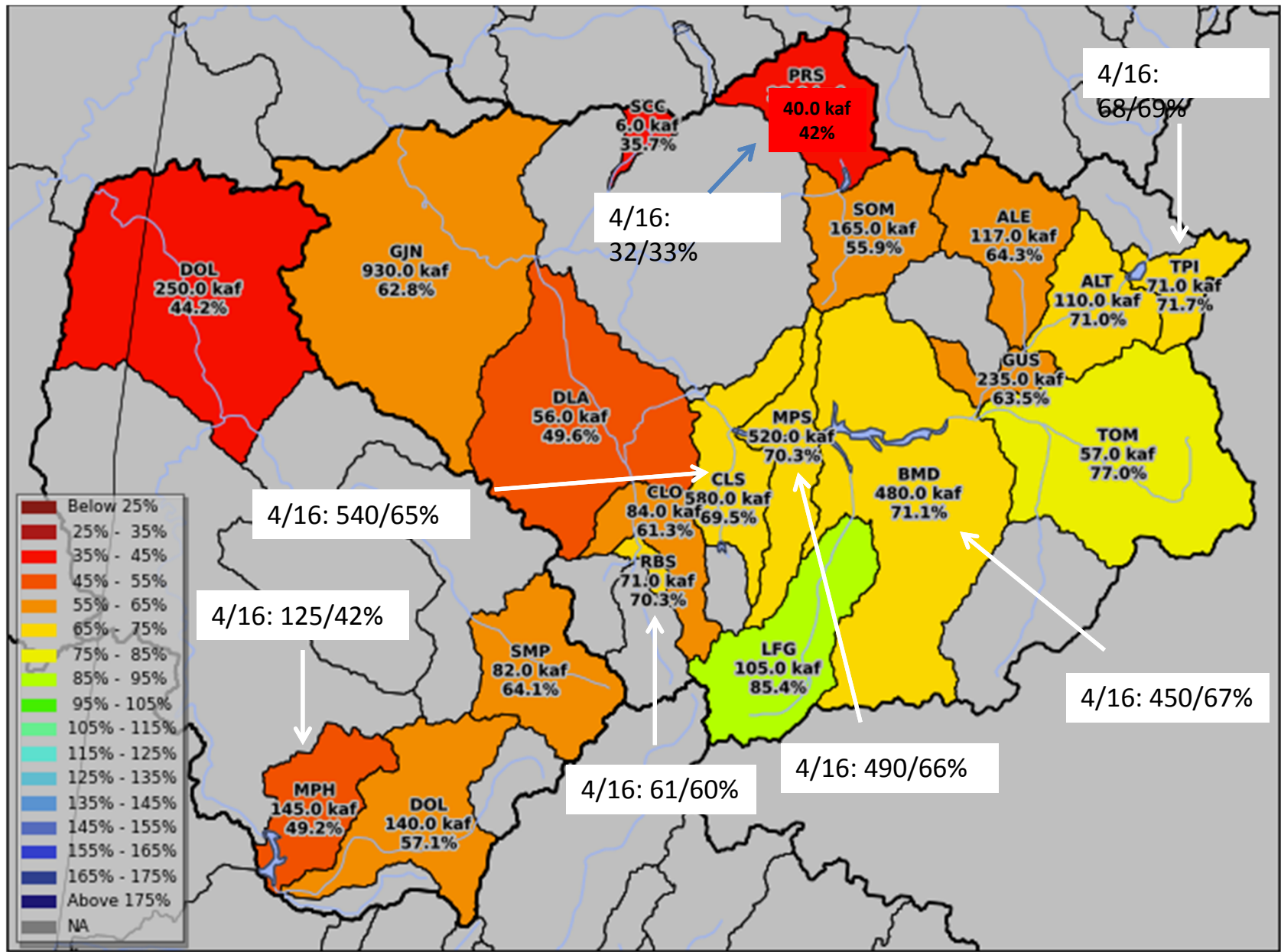


East – Almont : 2015 Model Snow Trend compared to the 1981-2010 calibration average

ALEC2H_F: SWE - Snow Cover



Forecast Distribution: Gunnison & Dolores Basins – April 1st & Mid-April Updates

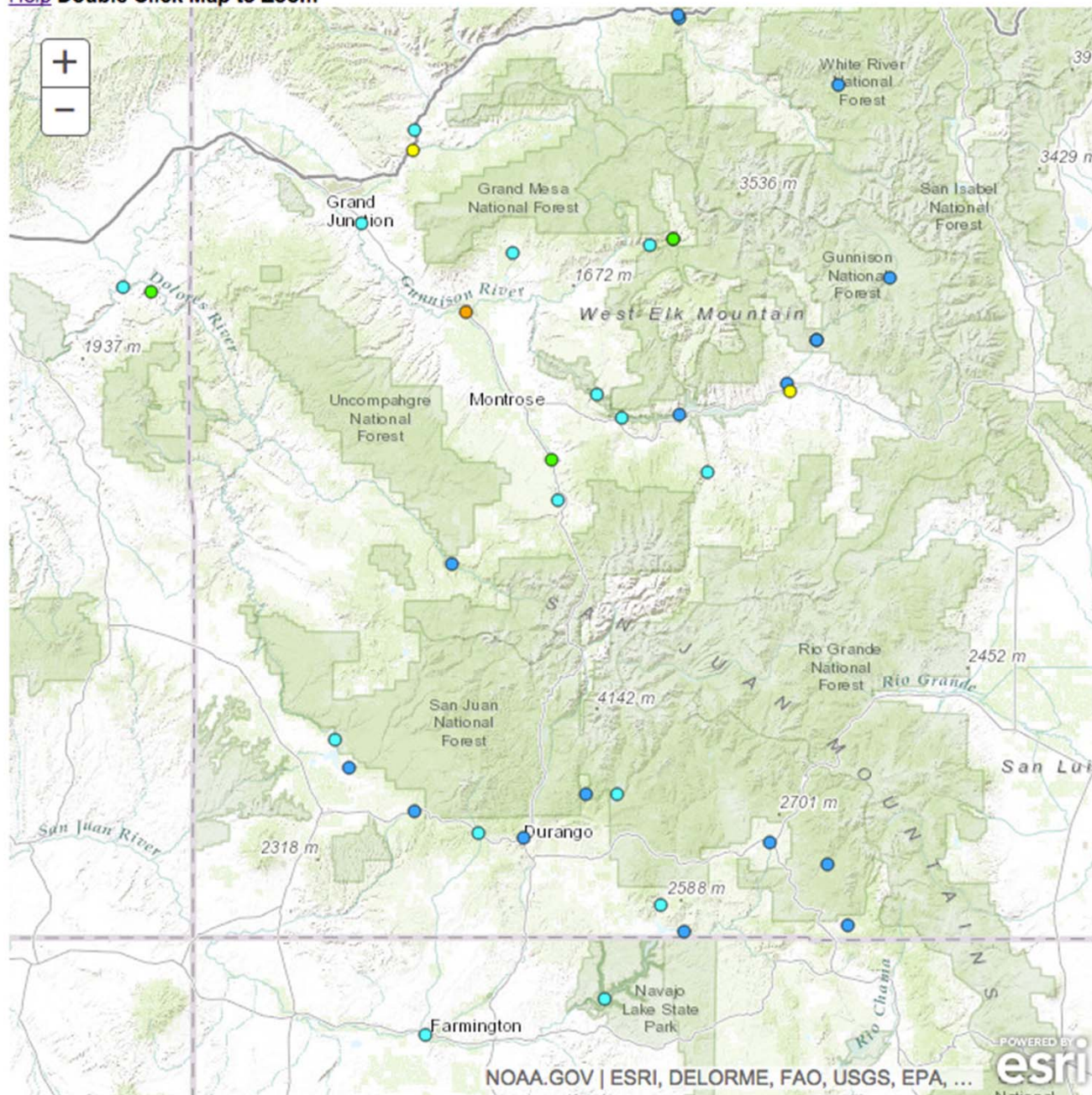


Historical Water Supply Verification - April

[Help](#) Double Click Map to Zoom

Forecast Month

[January](#)
[February](#)
[March](#)
[April](#)
[May](#)
[June](#)



NOAA.GOV | ESRI, DELORME, FAO, USGS, EPA, ...

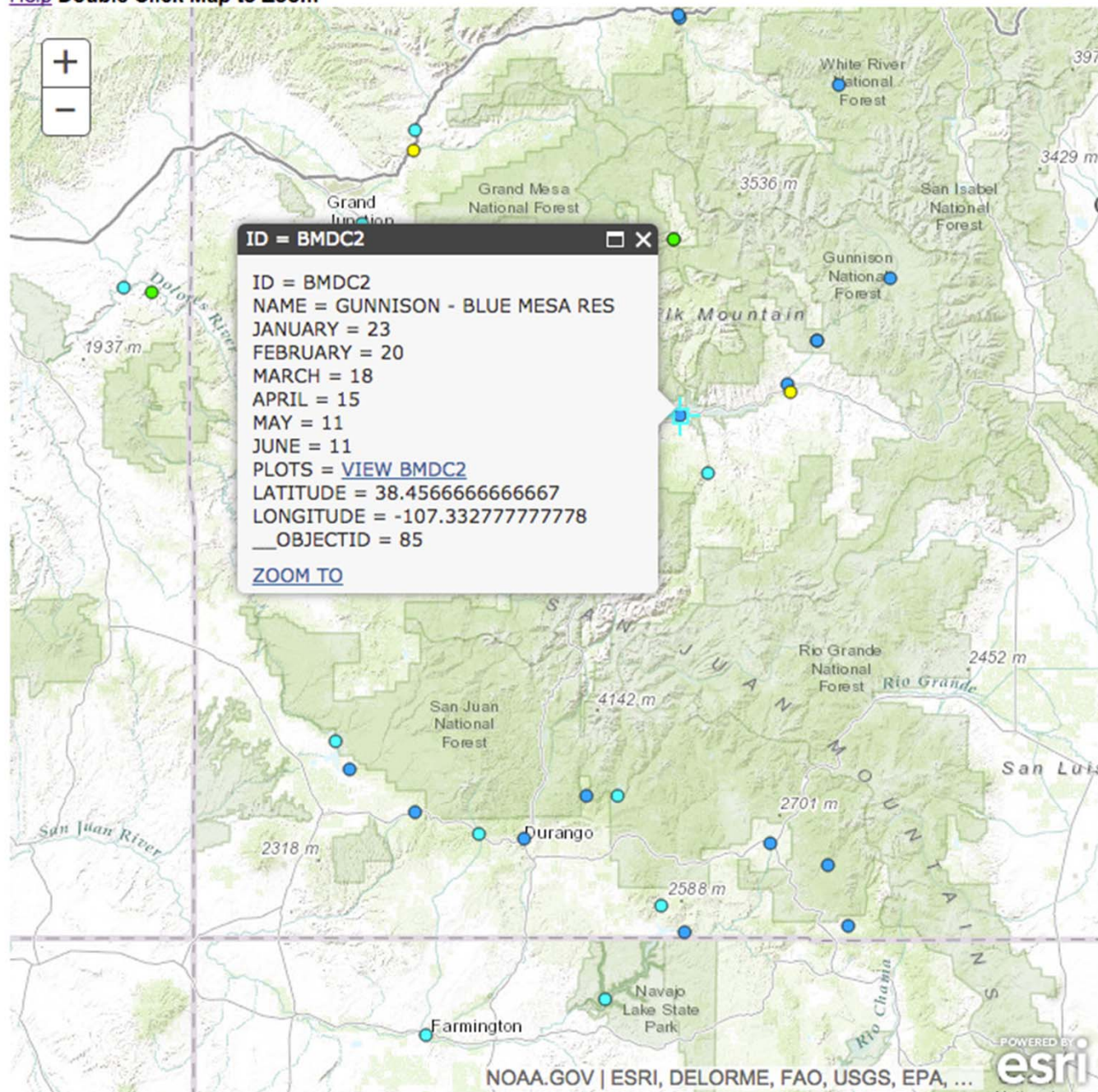
POWERED BY
esri
National

Historical Water Supply Verification - April

[Help](#) Double Click Map to Zoom

Forecast Month

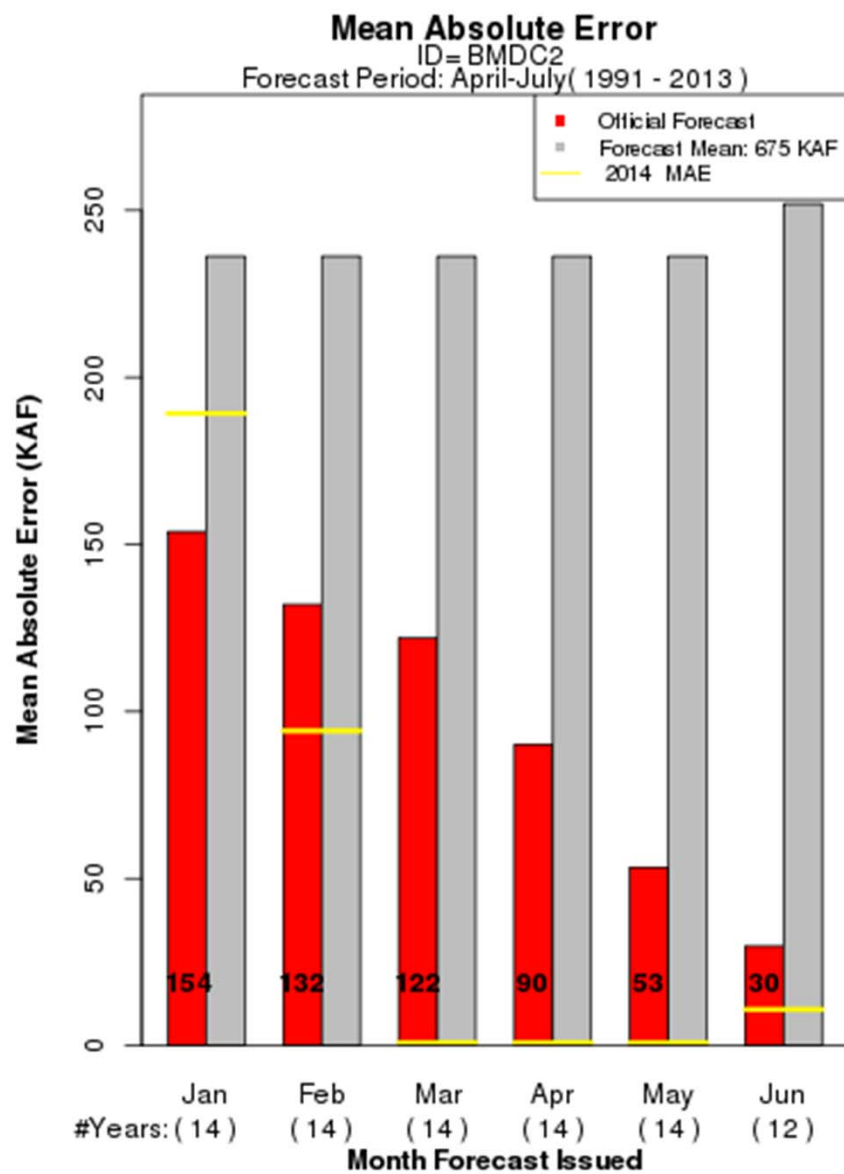
[January](#)
[February](#)
[March](#)
[April](#)
[May](#)
[June](#)



% Error

- No Data
- 1 - 5
- 5 - 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40
- >40

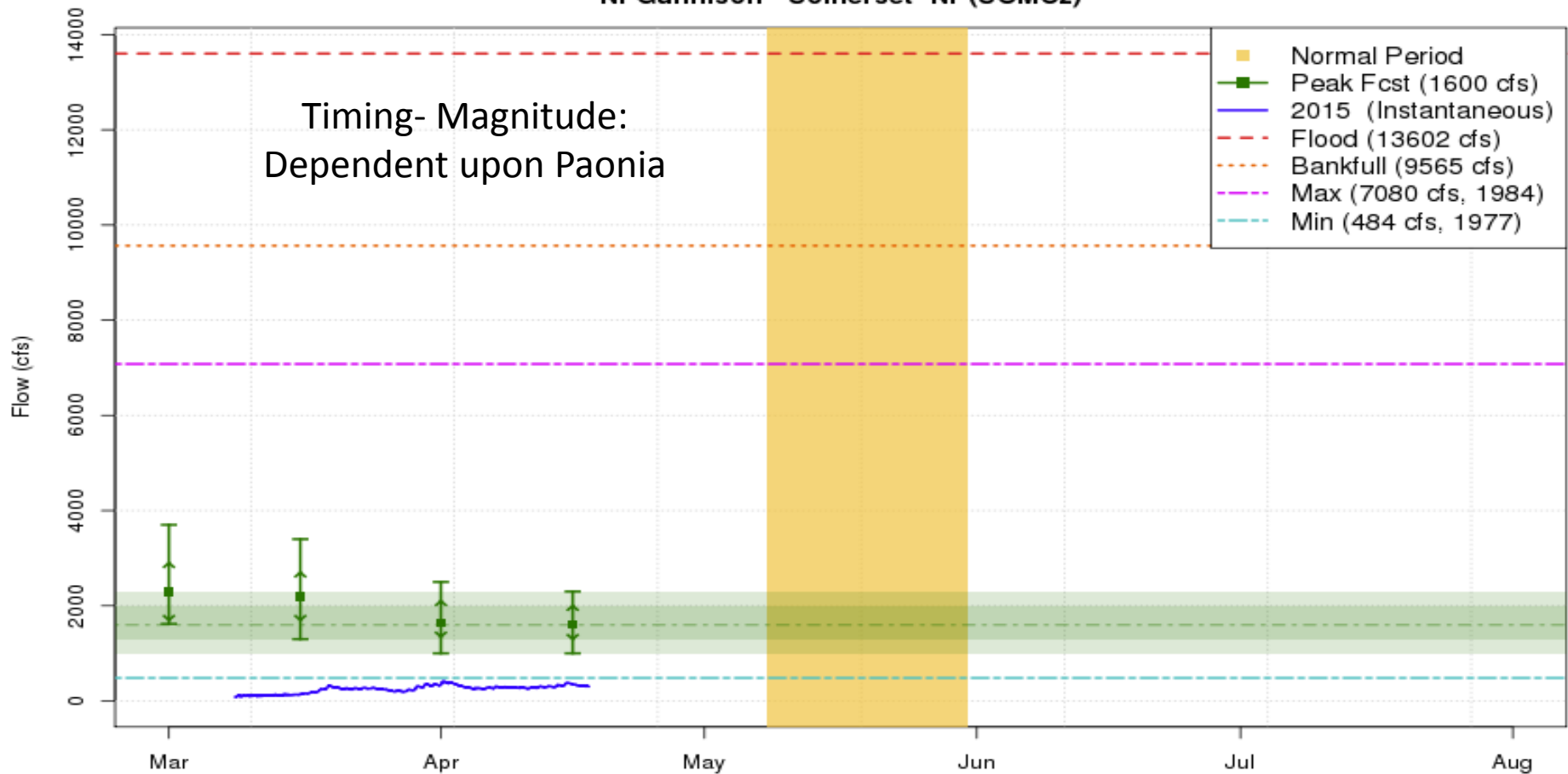
Mean Absolute Forecast Error (last 14 years)



PEAK FLOW DISCUSSION

North Fork Gunnison near Somerset

**2015 Mean Daily Peak Flow Forecast
Nf Gunnison - Somerset- Nr (SOMC2)**



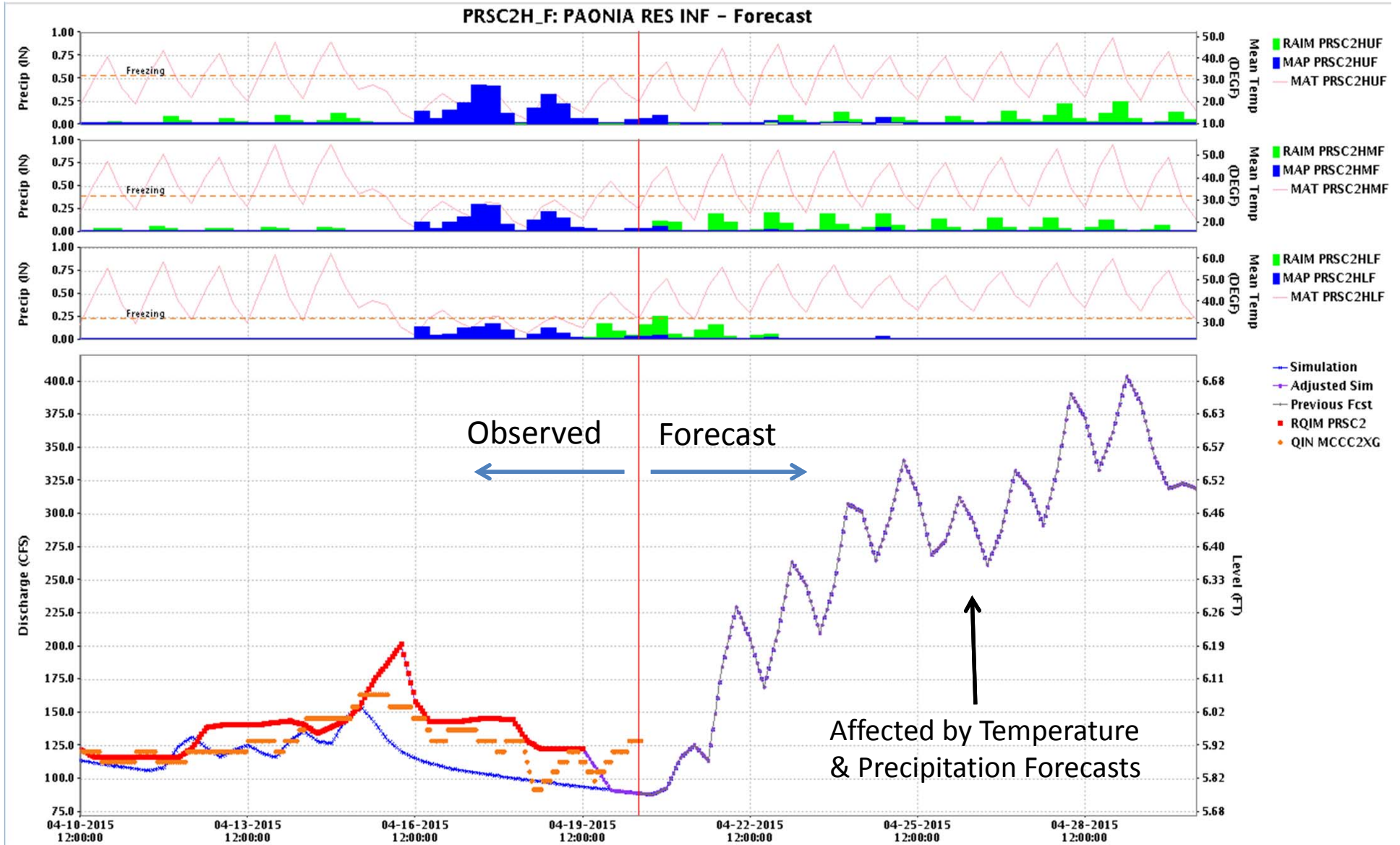
2014 Peak
3040 CFS

These graphics are updated approximately every two weeks between 3/1 and 5/1

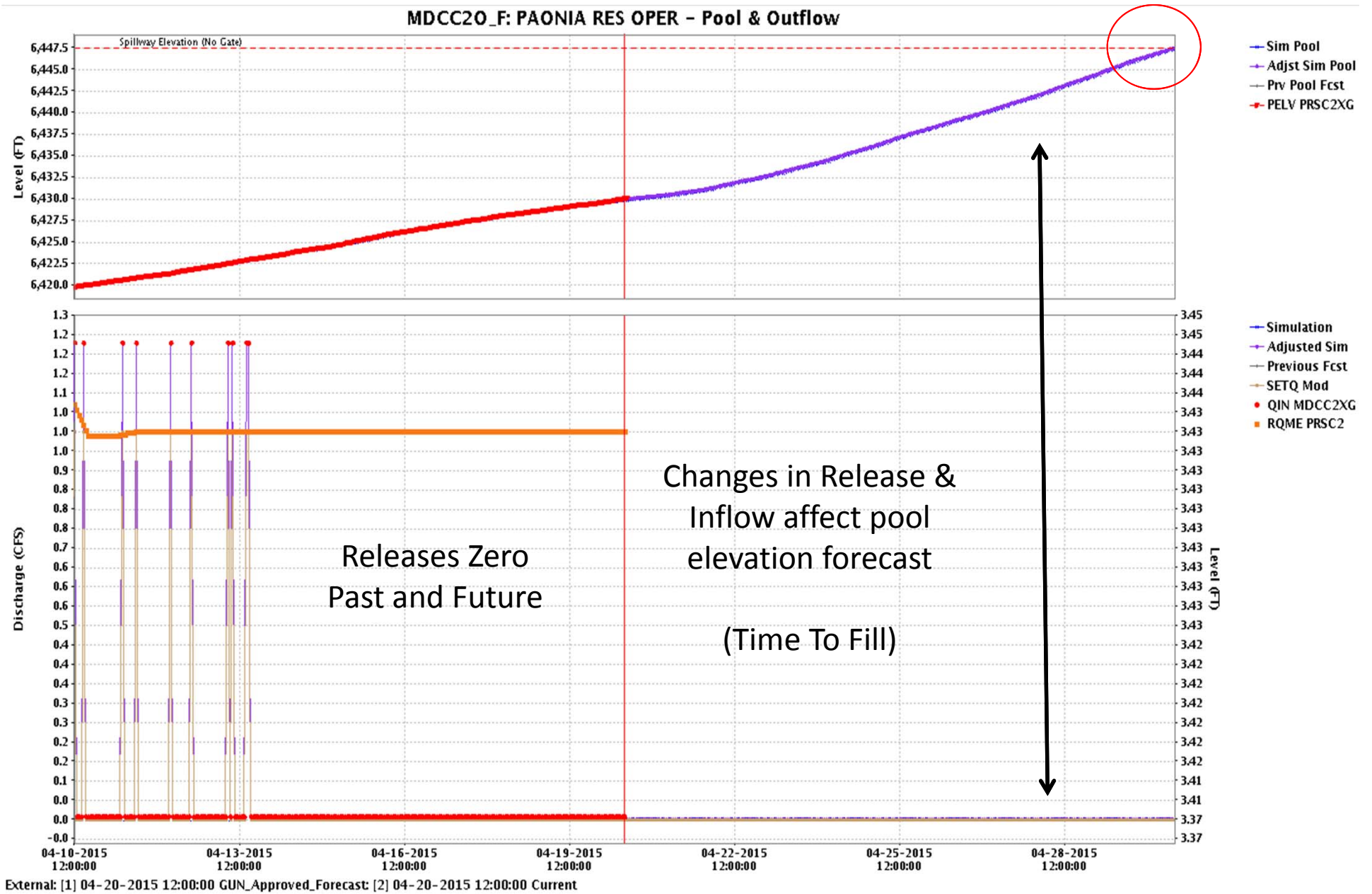
Plot Created 2015-04-17 14:40:31
CBRFC / NWS / NOAA

River	Location	Flood Flow	Issue Date	Mean Daily 90	Mean Daily 75	Mean Daily 50	Mean Daily 25	Mean Daily 10	Average Peak
East	Almont	3170	2015-04-16	750	900	1000	1300	1500	2000
Nf Gunnison	Somerset	13870	2015-04-16	1000	1300	1600	2000	2300	3120
Surface Ck	Cedaredge	1410	2015-04-16	45	65	90	115	160	210
Gunnison	Grand Junction	19520	2015-04-16	6000	6600	6600	7000	7500	8890

Daily Deterministic Forecast Model – Paonia Inflow



Daily Deterministic Forecast Model – Paonia Pool & Outflow



CBRFC / NWS / NOAA

Questions or Comments

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Senior Hydrologist

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