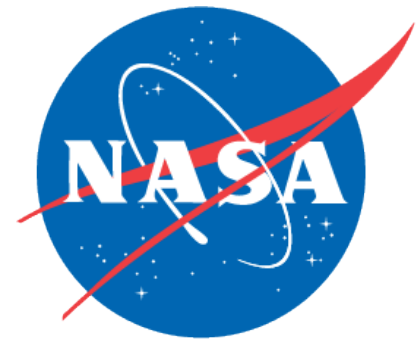


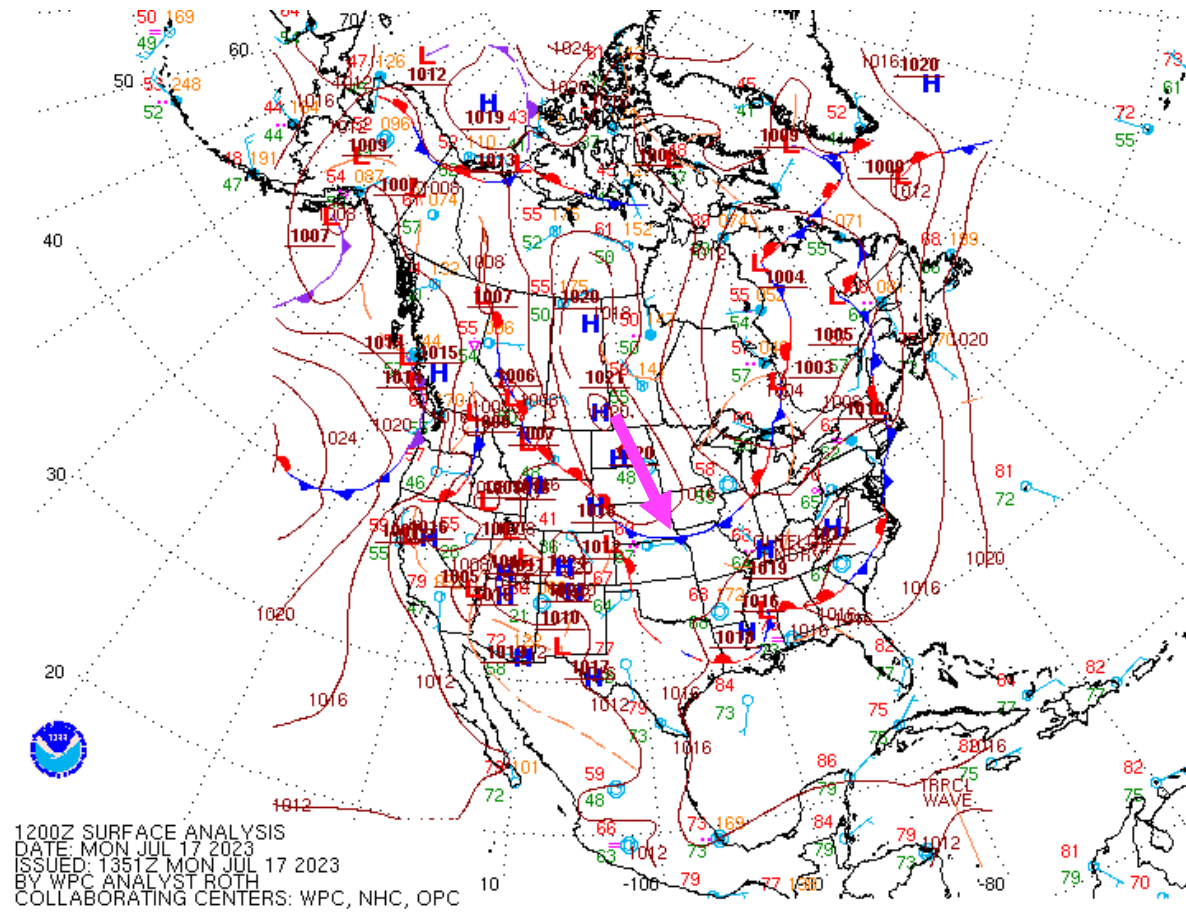
Weather and Air Quality: Reflection and Outlook

Presenter: Megan Christiansen
Date: July 17, 2023

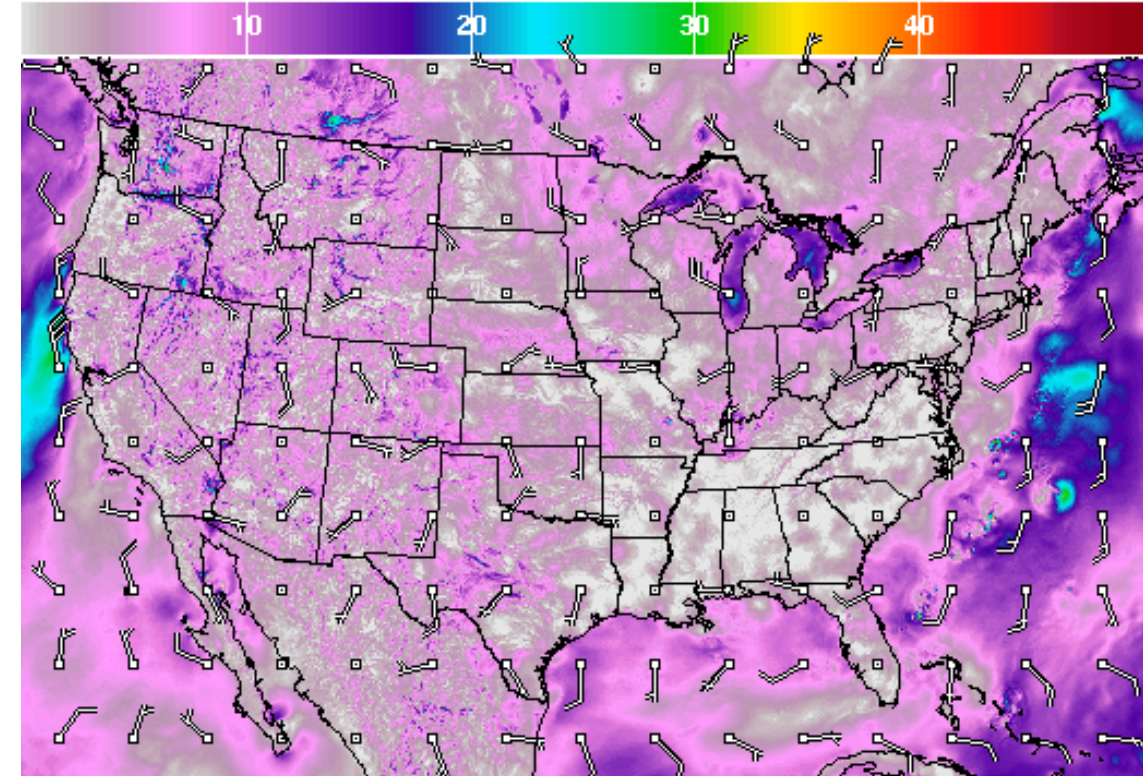


Current Status: July 17, 2023

Surface Analysis



Wind Speed/Direction



WindSpd(Kts) & WindDir For Mon Jul 17 2023 8AM EDT
(Mon Jul 17 2023 12Z)

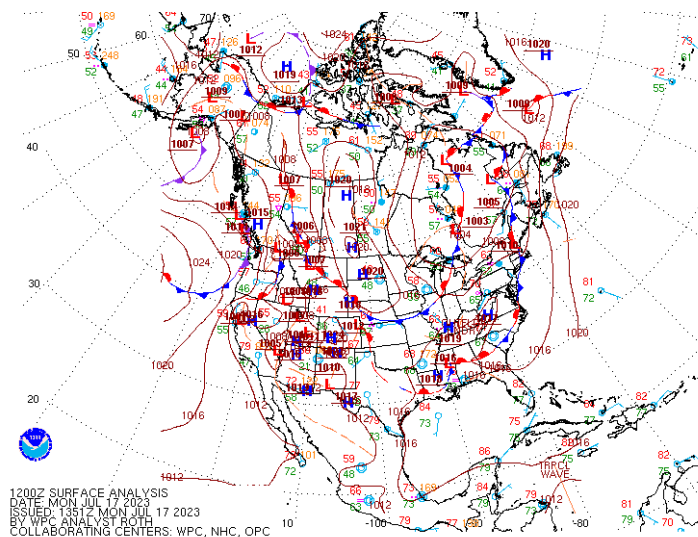
Real-Time Mesoscale Analysis

Graphic created-Jul 17 9:11AM EDT

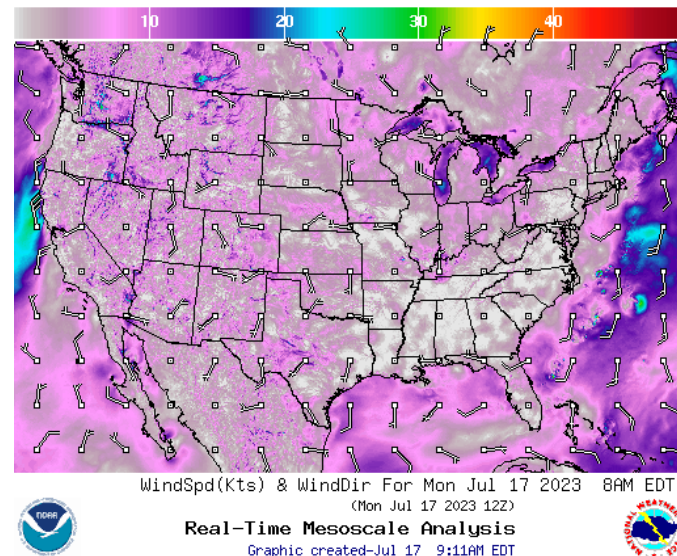


Current Status: July 17, 2023

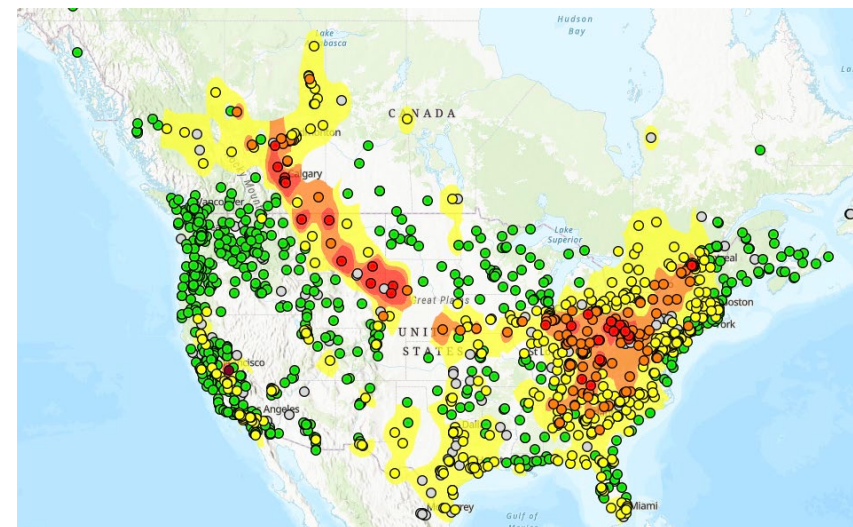
Surface Analysis



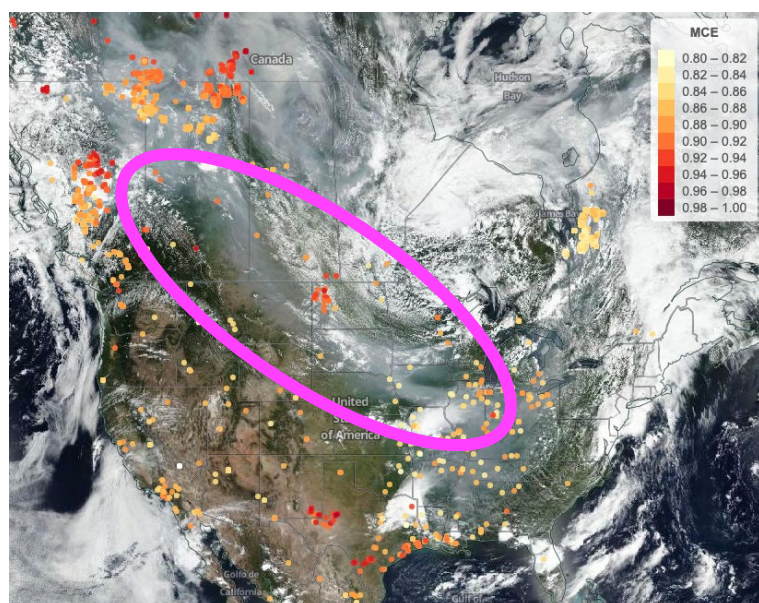
Wind Speed/Direction



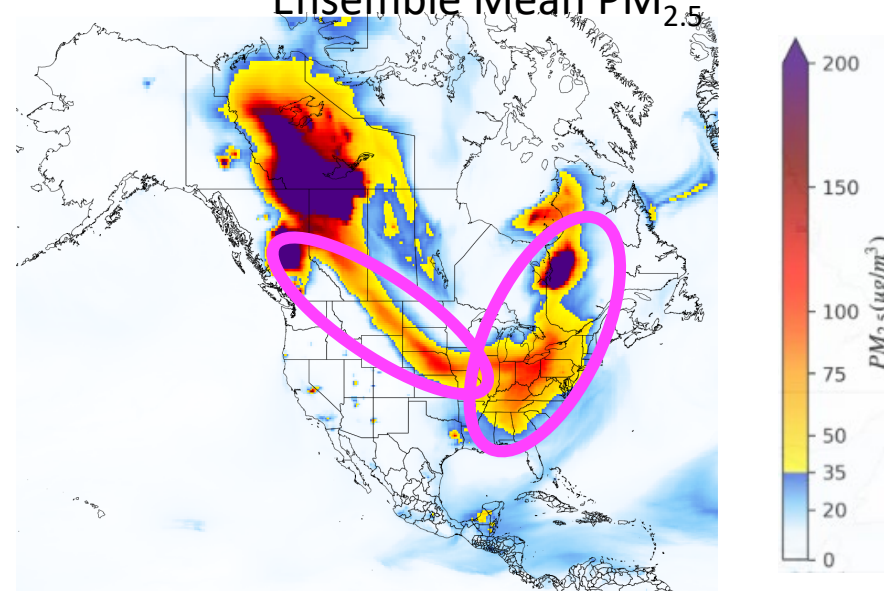
AirNow AQI



FILDA-2 MCE

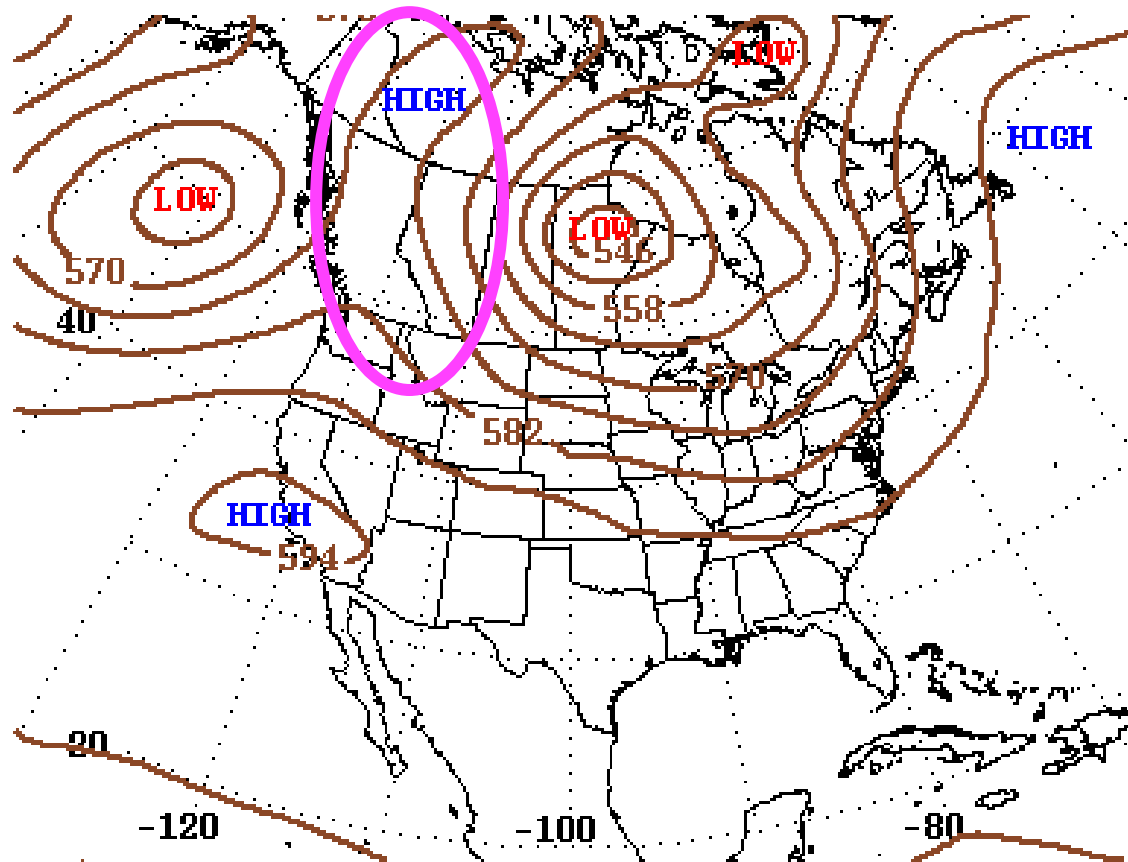


Ensemble Mean PM_{2.5}



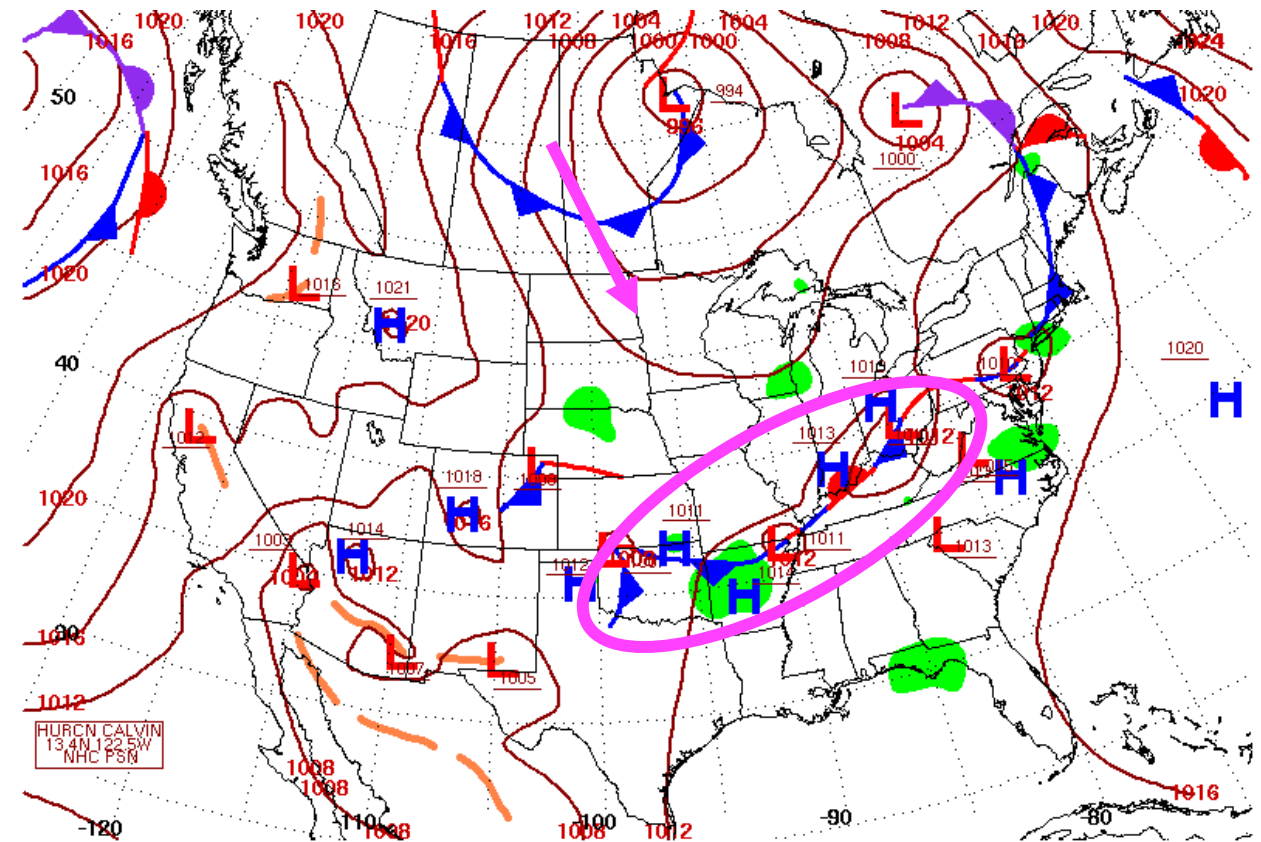
Midwest Smoke Event Setup: Friday; July 14, 2023

500 hPa Contours



500-Millibar Height Contour at 7:00 A.M. E.S.T.

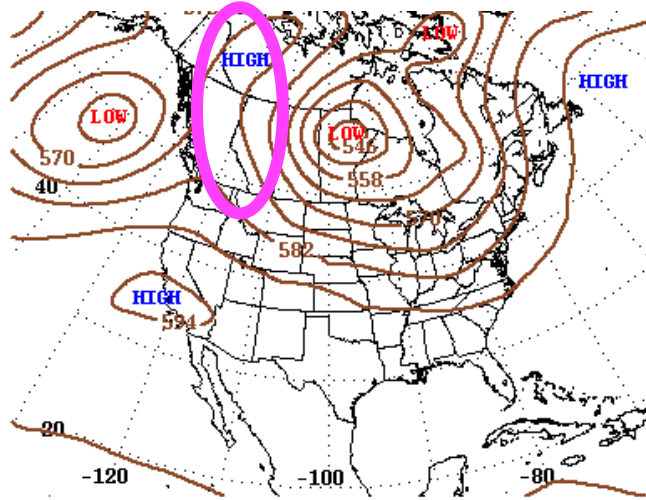
Surface Weather



Surface Weather Map at 7:00 A.M. E.S.T.

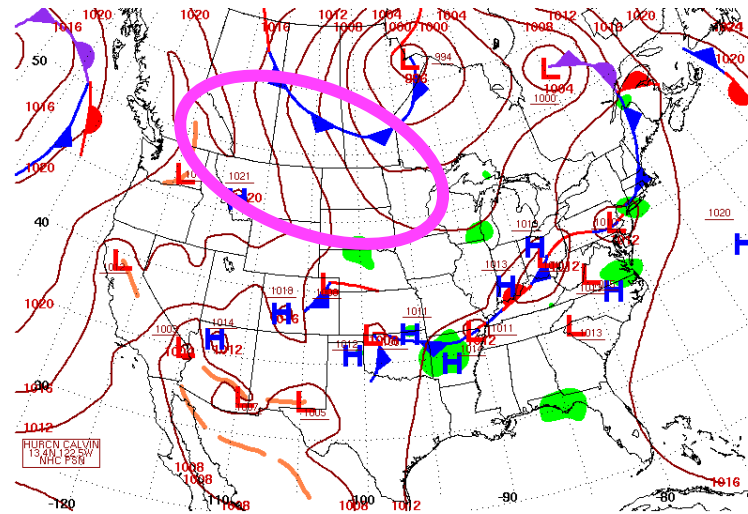
Midwest Smoke Event Setup: Friday; July 14, 2023

500 hPa Contours



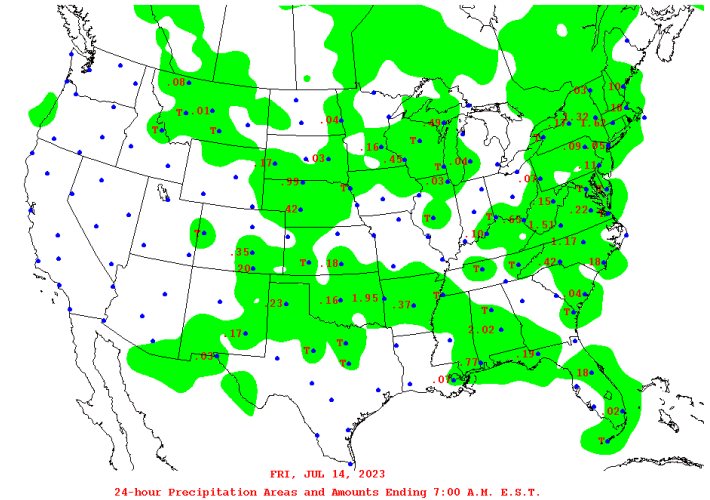
500-Millibar Height Contour at 7:00 A.M. E.S.T.

Surface Weather

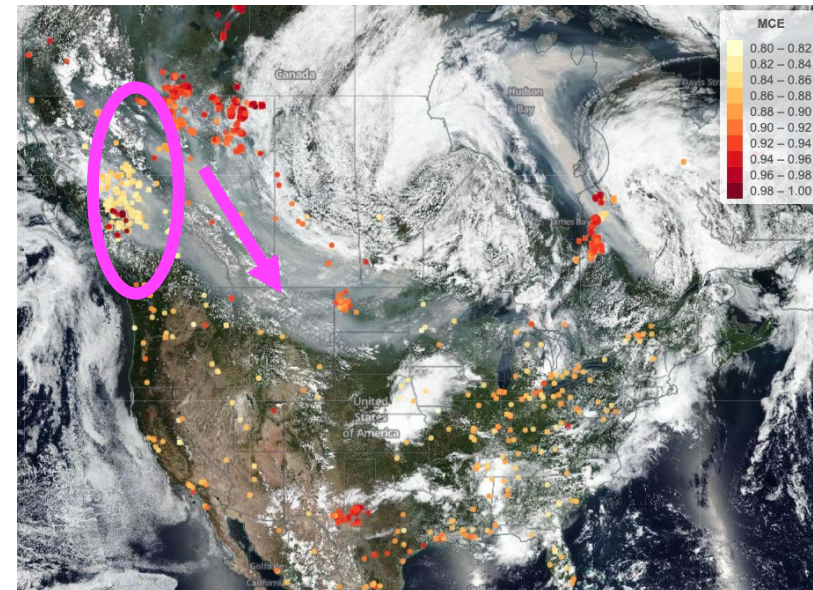
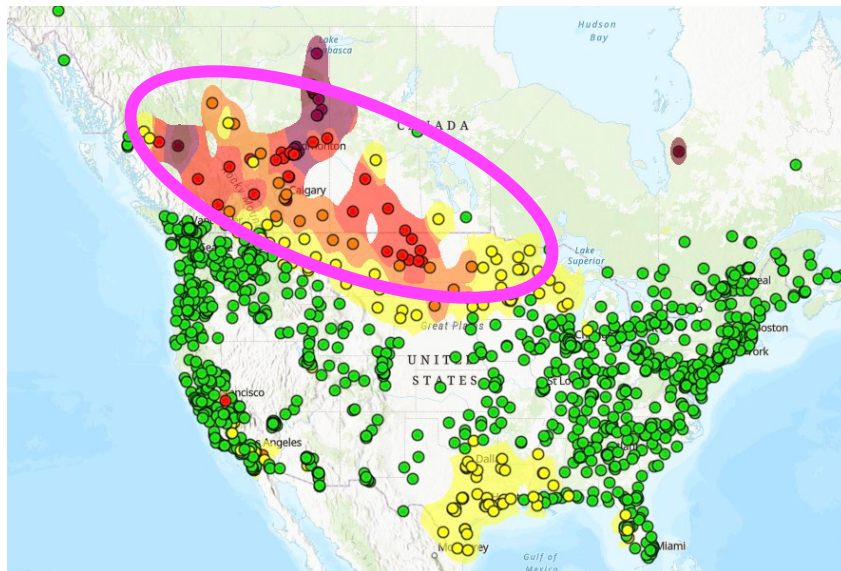


Surface Weather Map at 7:00 A.M. E.S.T.

Precipitation (Thurs into Friday)

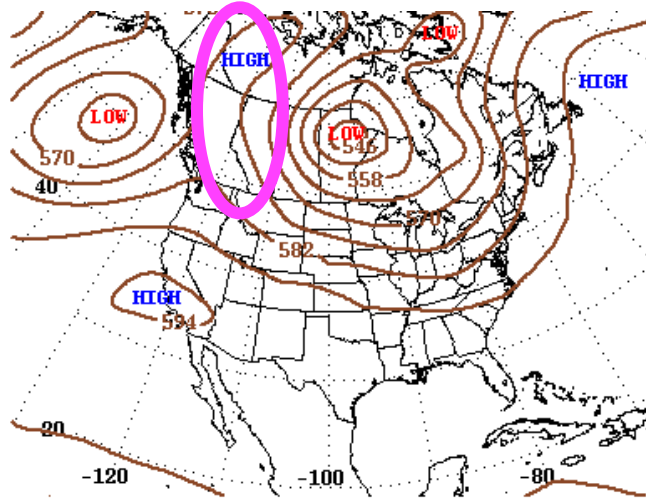


FRI, JUL 14, 2023
24-hour Precipitation Areas and Amounts Ending 7:00 A.M. E.S.T.

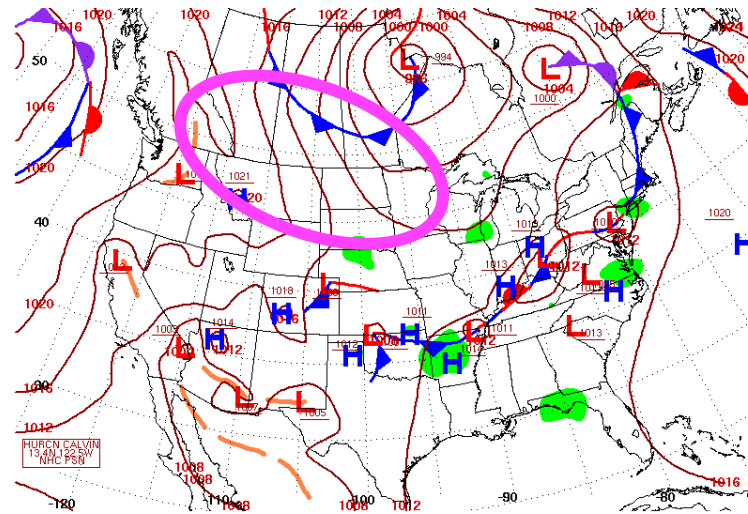


Midwest Smoke Event Setup: Friday; July 14, 2023

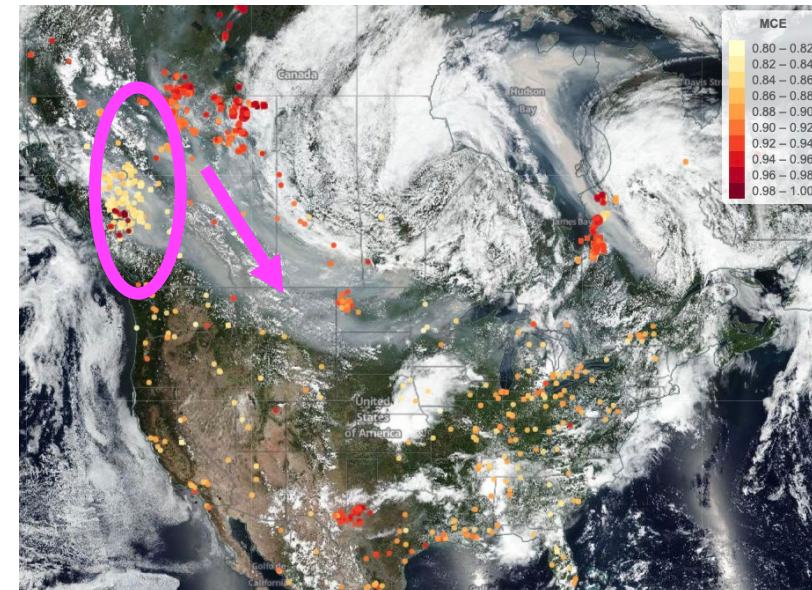
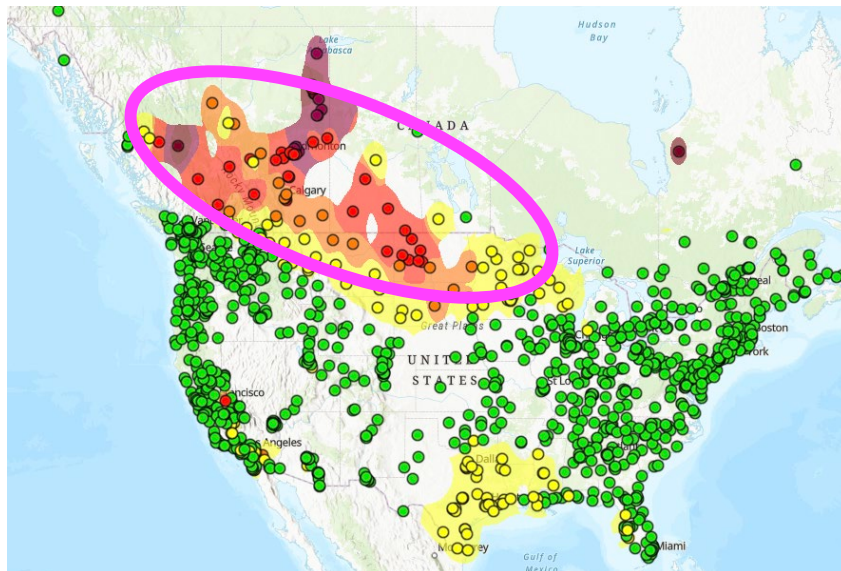
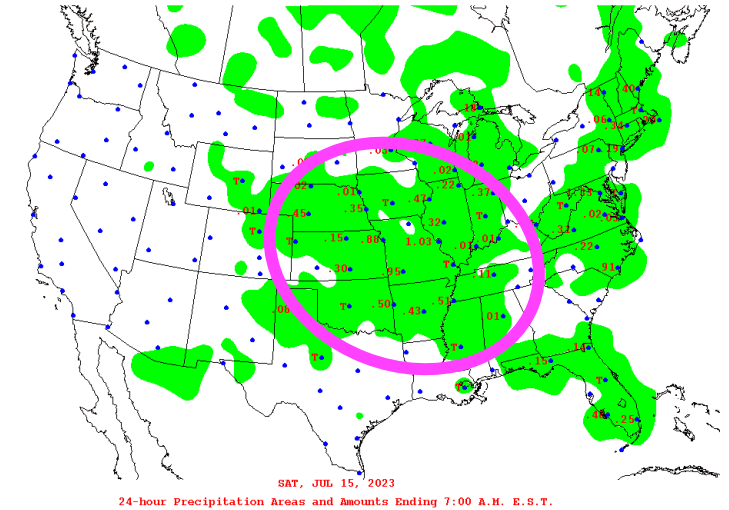
500 hPa Contours



Surface Weather

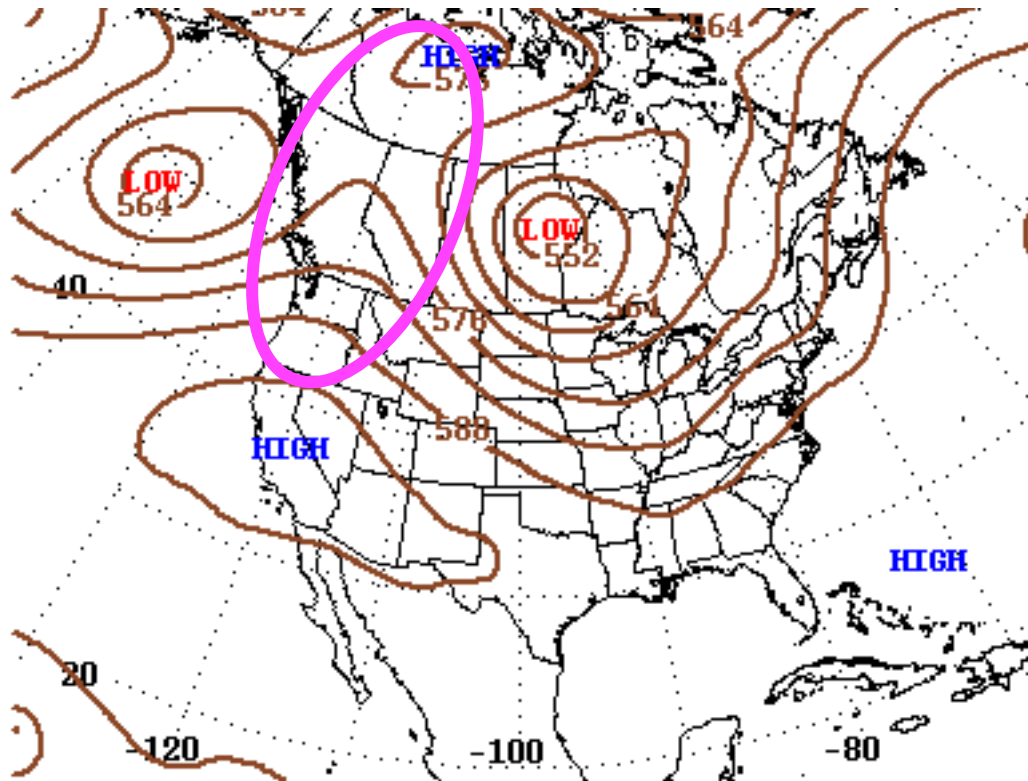


Precipitation (Fri into Sat)



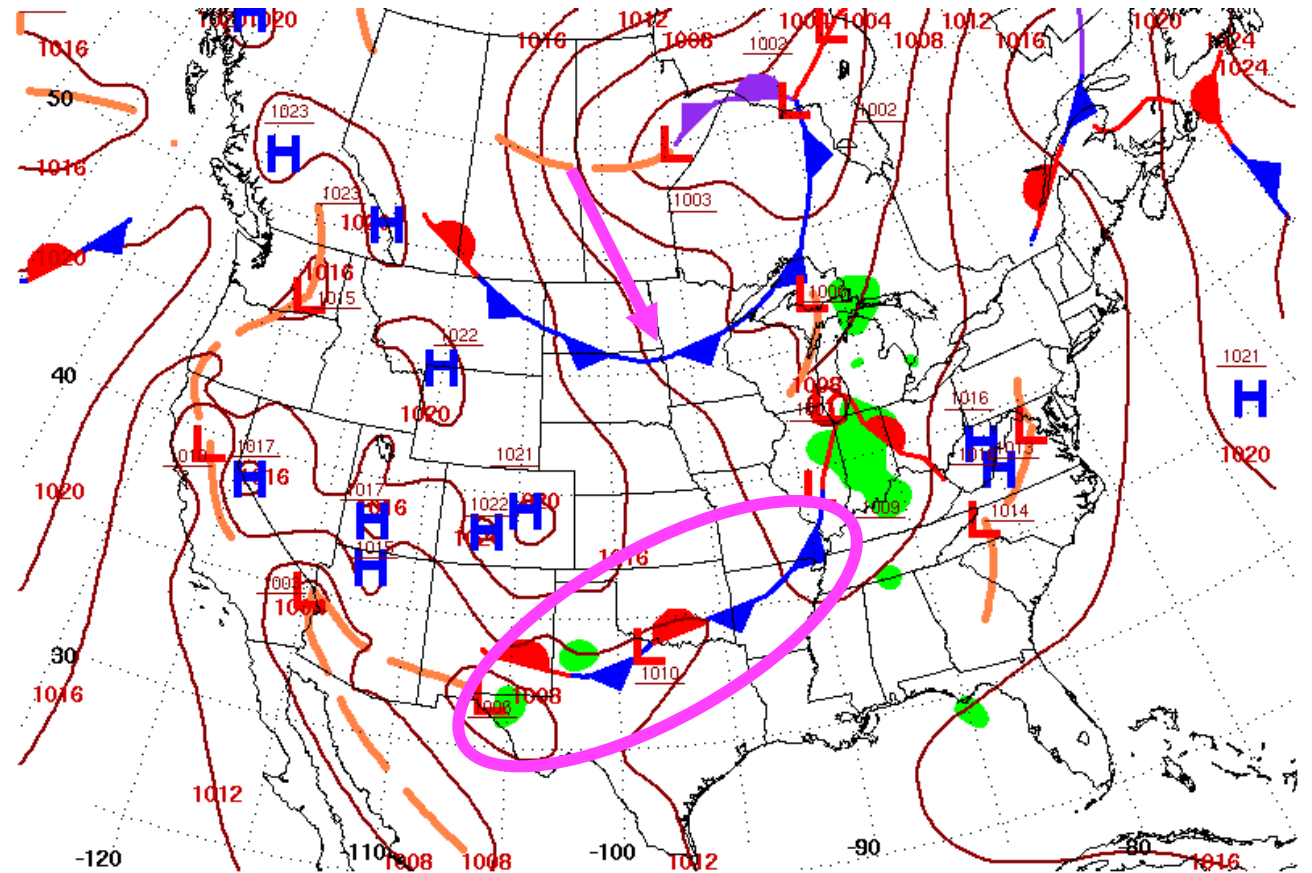
Midwest Smoke Event: Saturday; July 15, 2023

500 hPa Contours



500-Millibar Height Contour at 7:00 A.M. E.S.T.

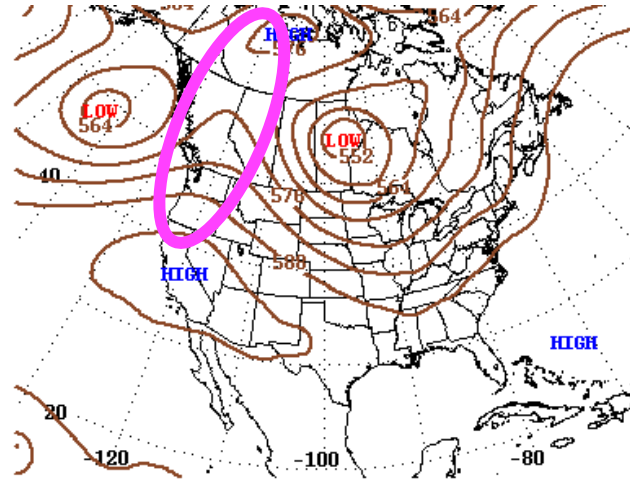
Surface Weather



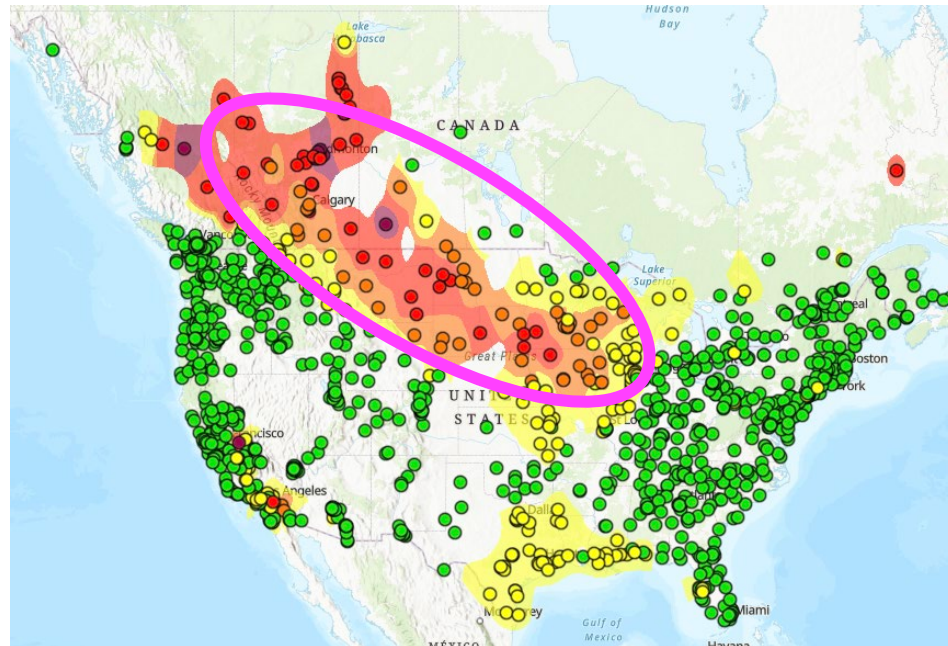
Surface Weather Map at 7:00 A.M. E.S.T.

Midwest Smoke Event: Saturday; July 15, 2023

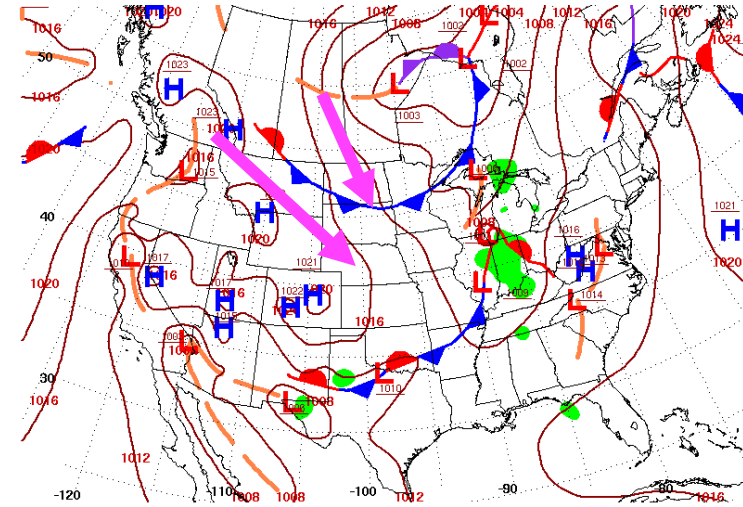
500 hPa Contours



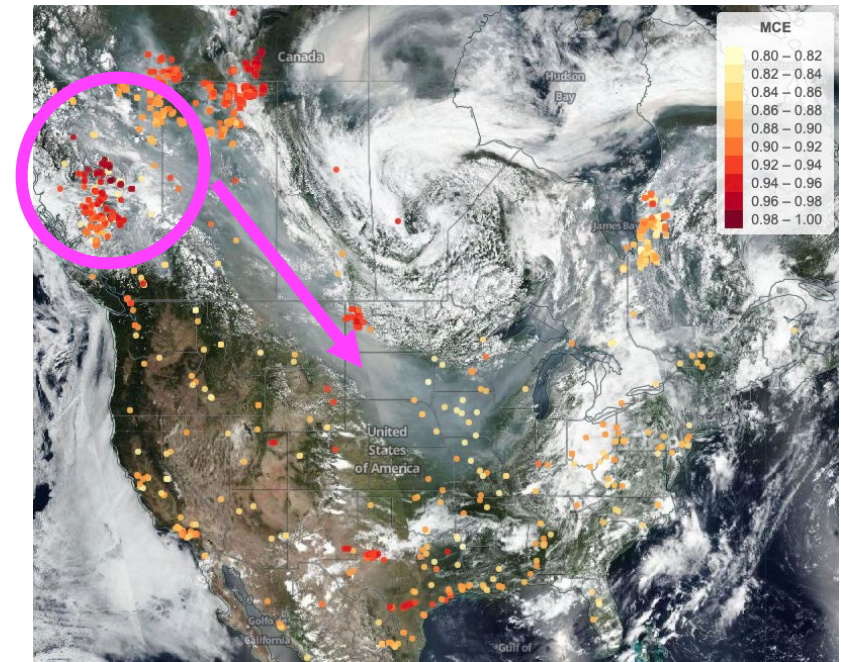
500-Millibar Height Contour at 7:00 A.M. E.S.T.



Surface Weather

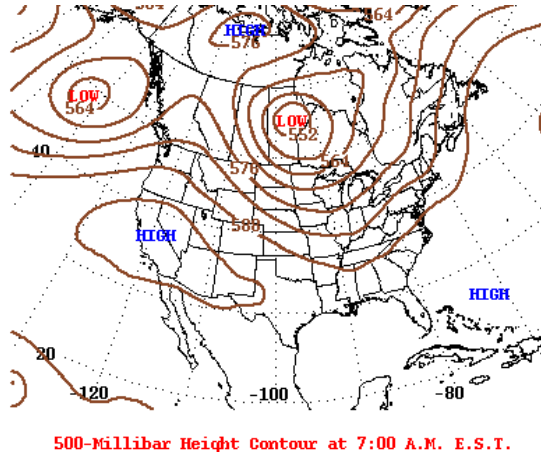


Surface Weather Map at 7:00 A.M. E.S.T.

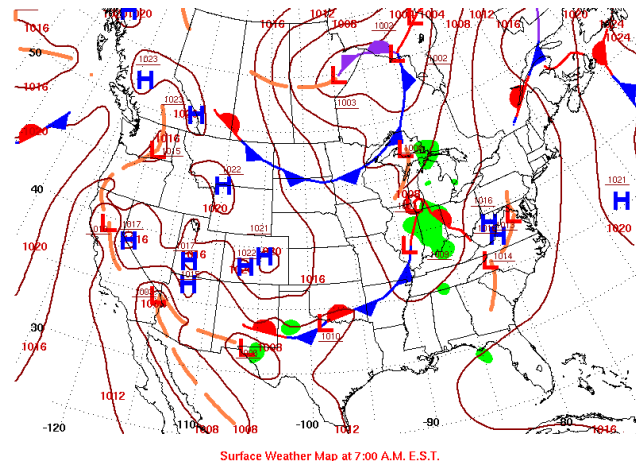


Midwest Smoke Event: Saturday; July 15, 2023

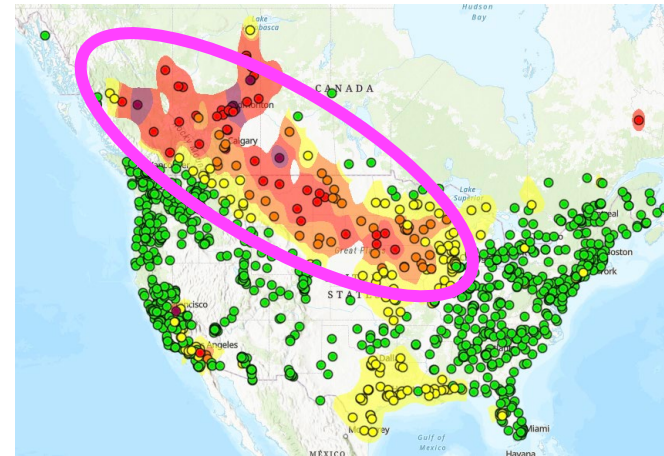
500 hPa Contours



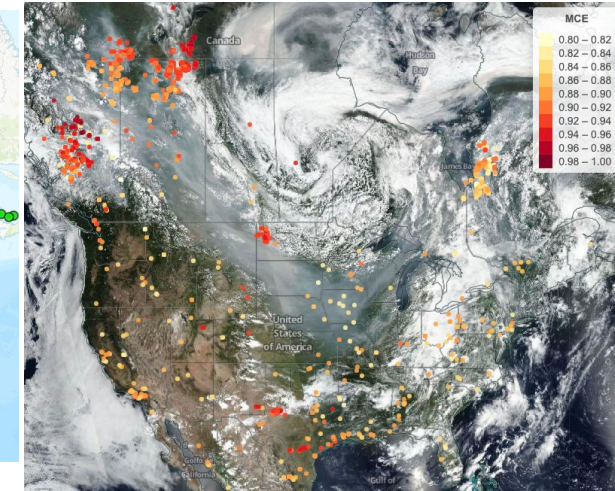
Surface Weather



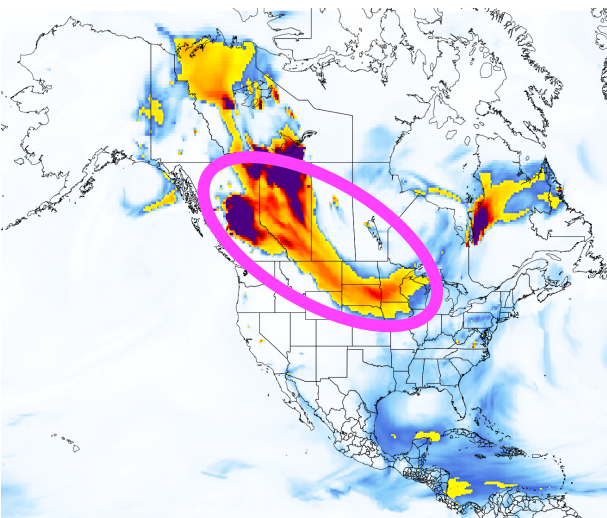
AirNow AQ



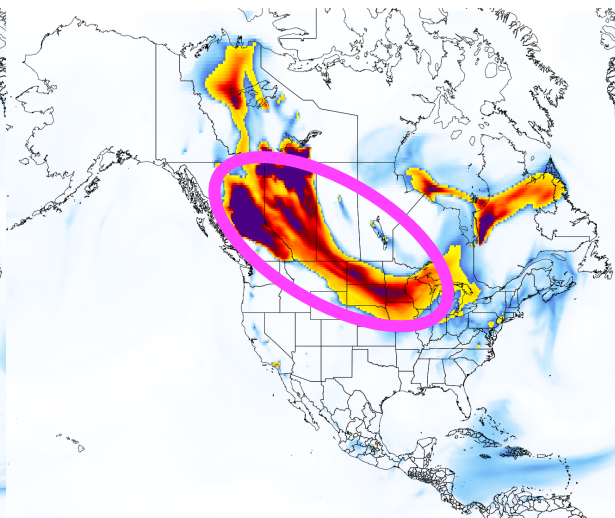
FILDA-2 MCE



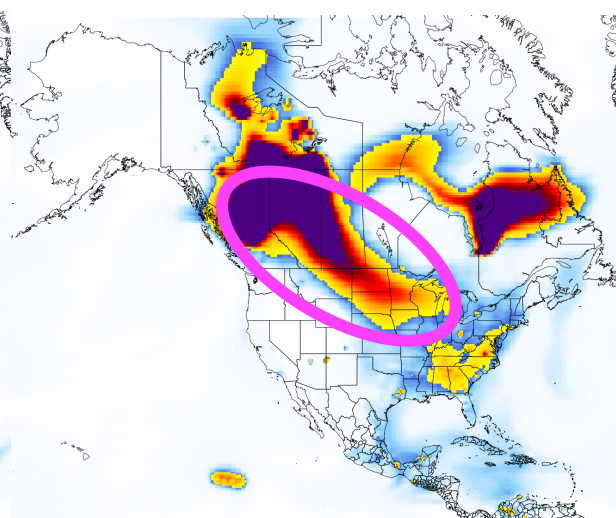
GEOS-FP $\text{PM}_{2.5}$



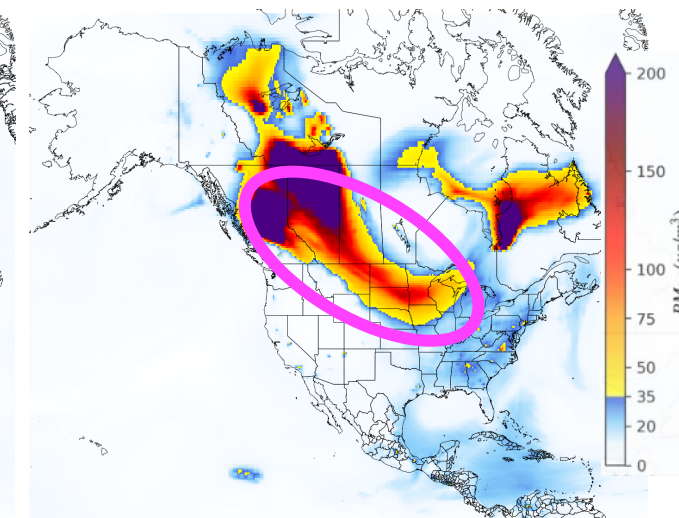
GEOS-CF $\text{PM}_{2.5}$



NAAPS $\text{PM}_{2.5}$

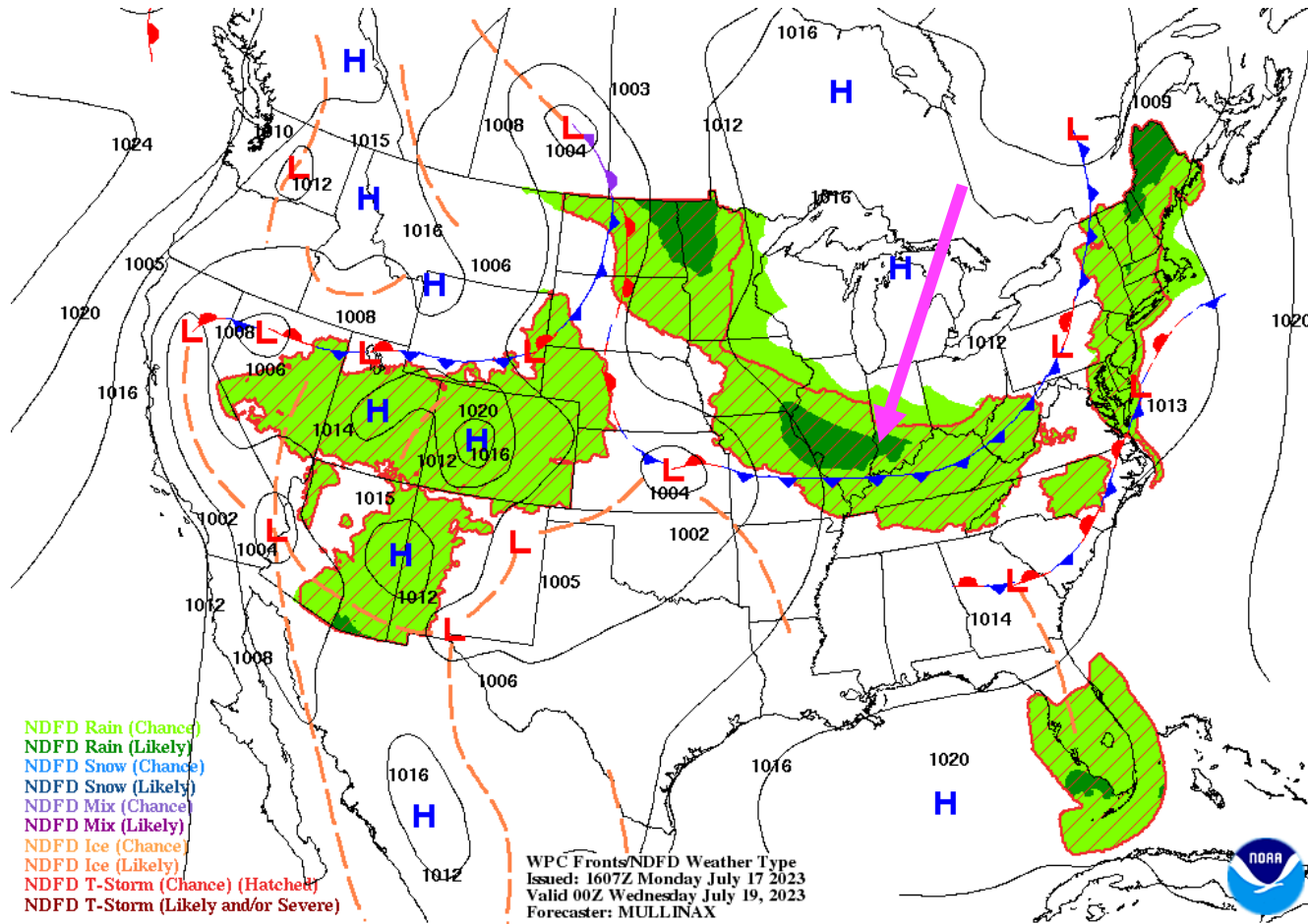


Ensemble Mean $\text{PM}_{2.5}$

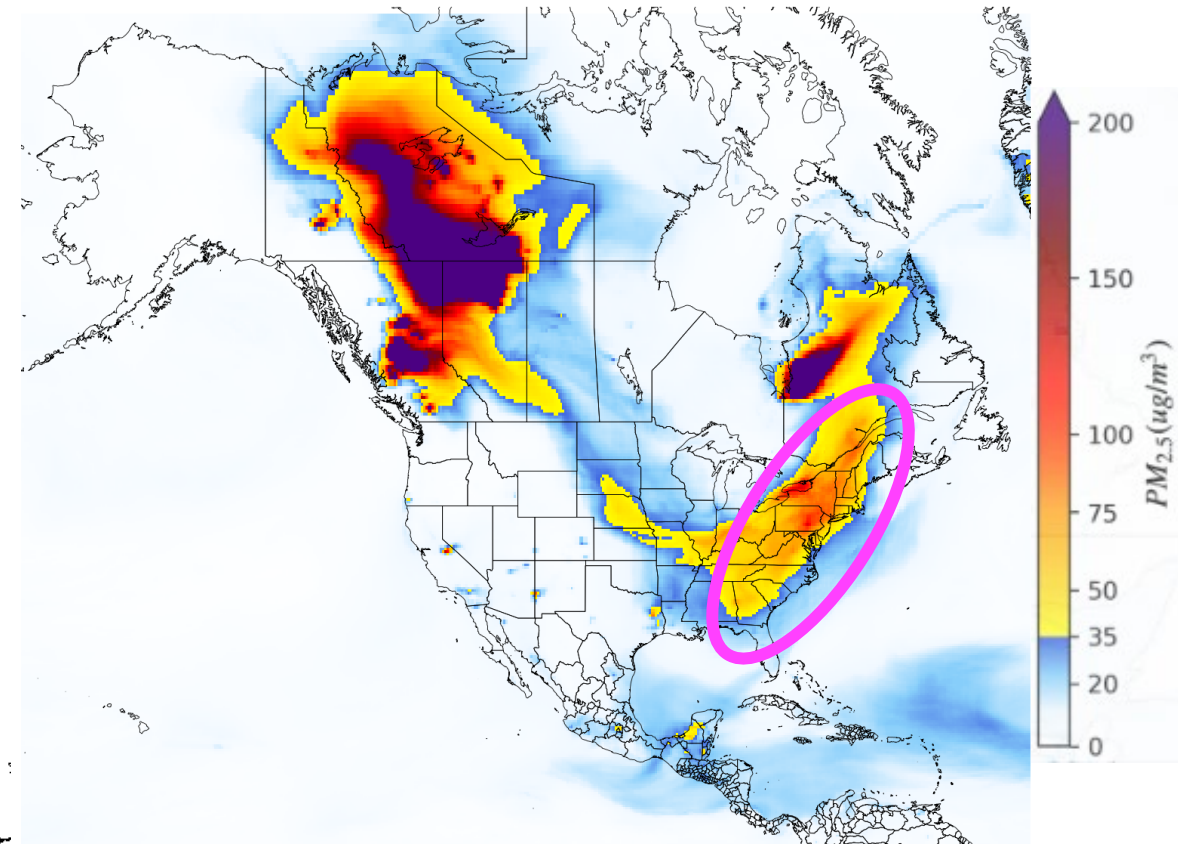


Outlook: Short Range (1–3 days)

Surface Forecast (Monday 7/17 – Wed 7/19)

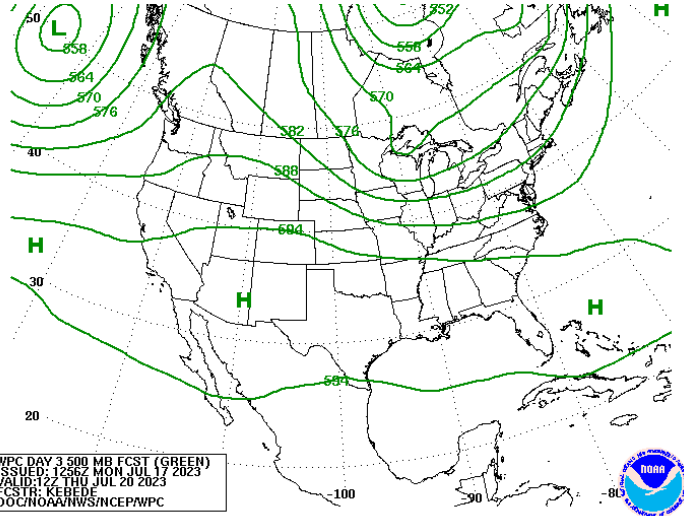


Ensemble Mean PM_{2.5} (Tues 7/18)

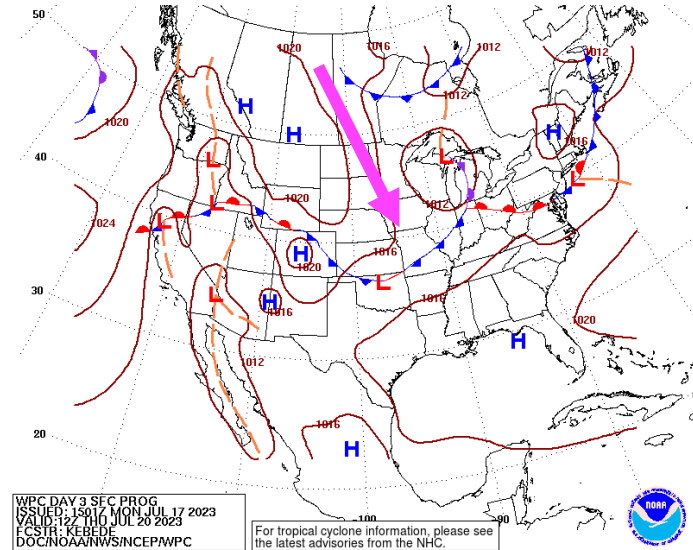


Outlook: Medium Range

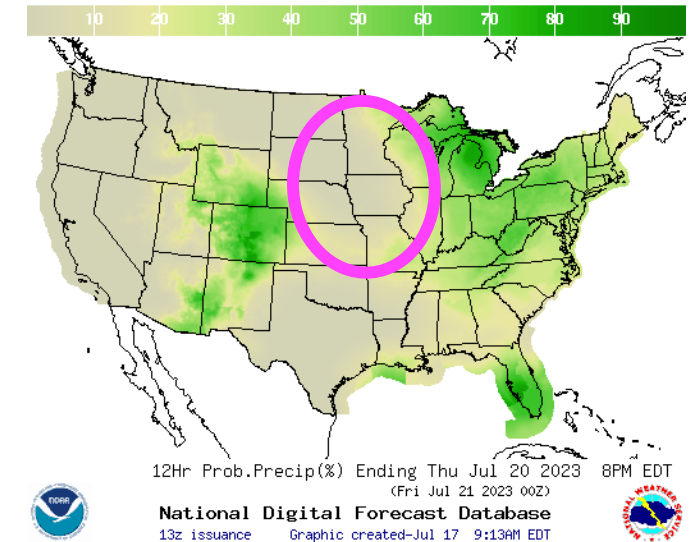
500 hPa Contours



Sea Level

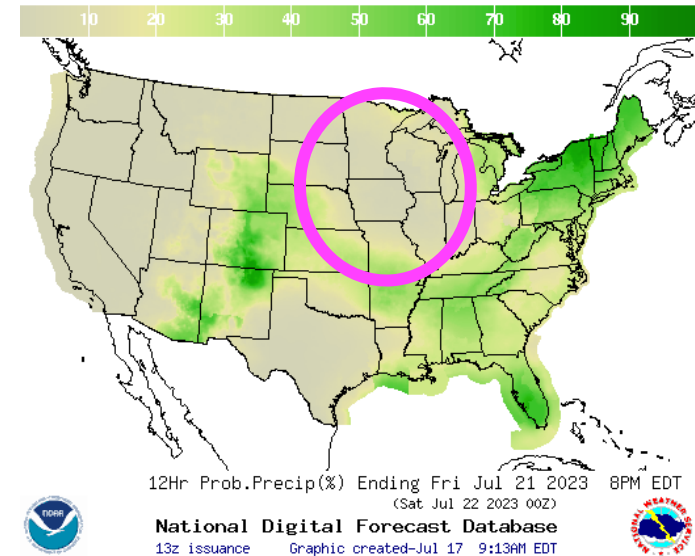
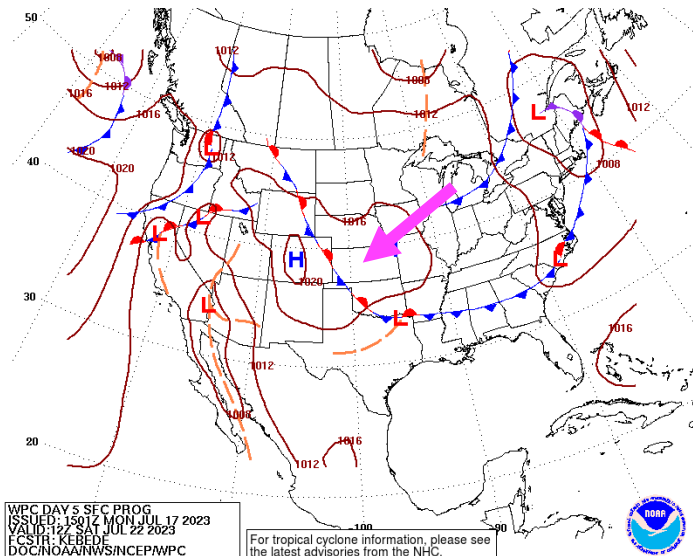
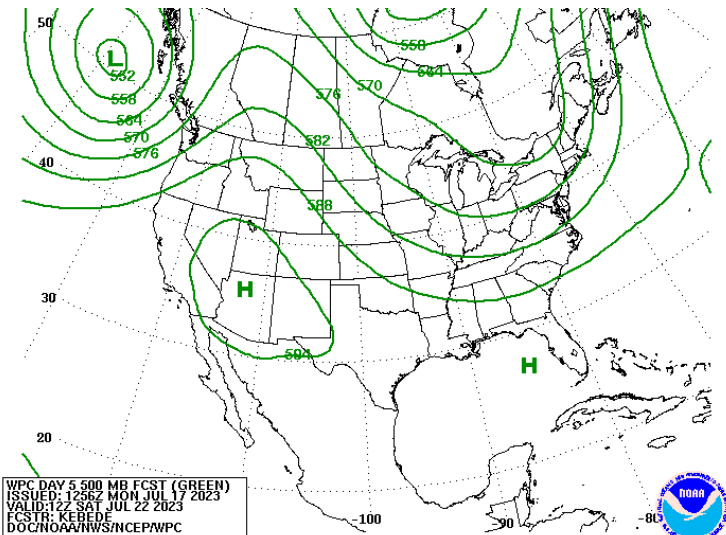


Precip Prob.



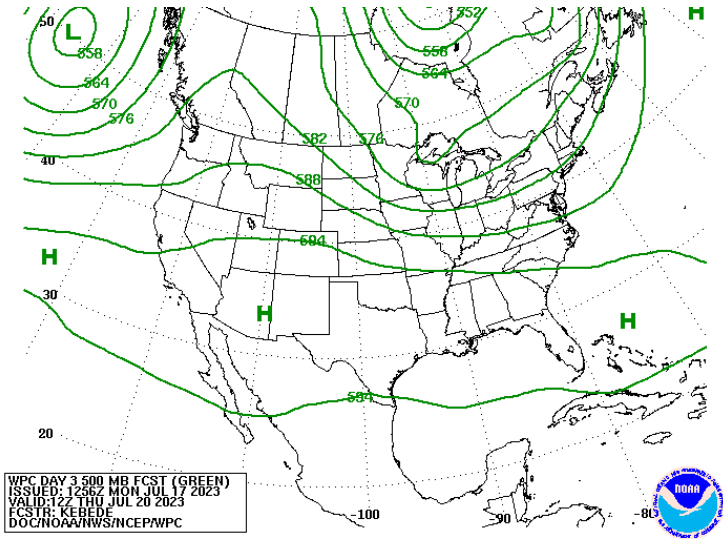
Thursday
7/20

Friday
7/21

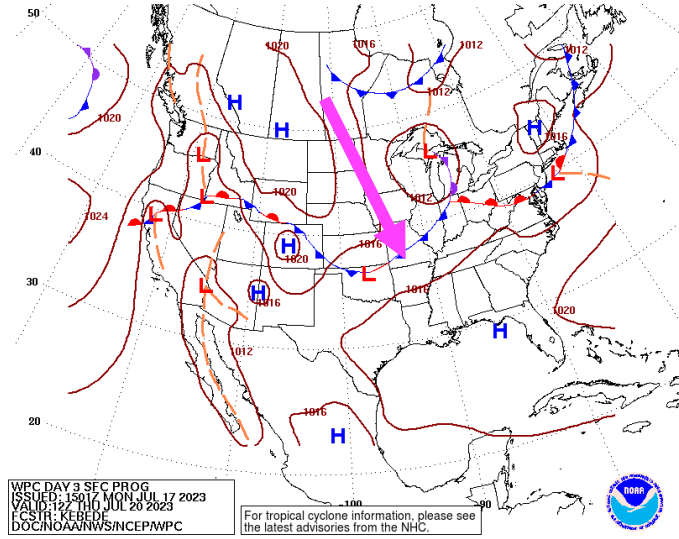


Outlook: Medium Range Thurs July 20

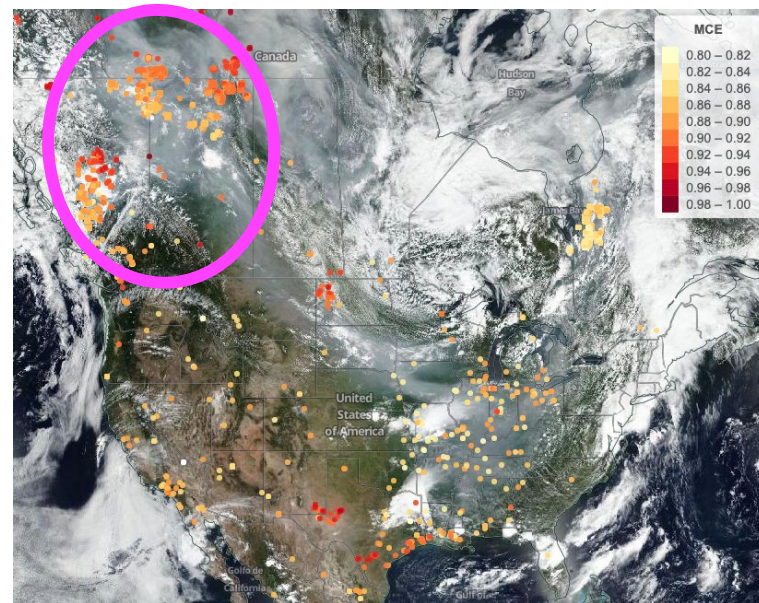
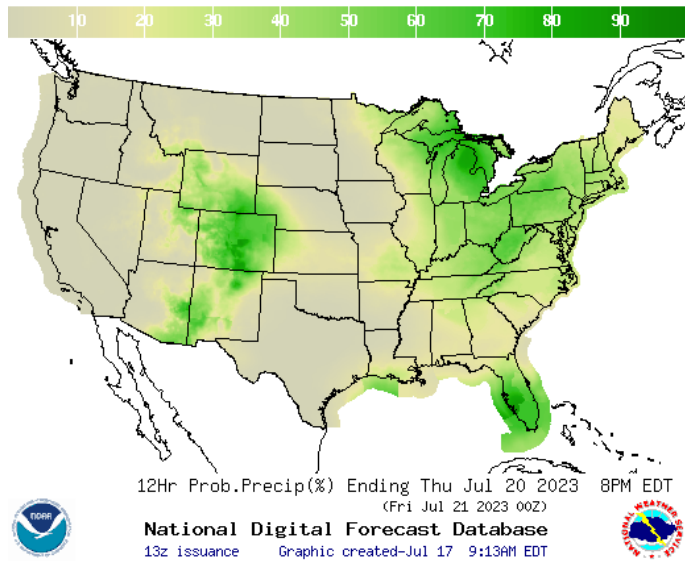
500 hPa Contours



Sea Level



Precip Prob.



FILDA-2 MCE
Valid Mon 7/17