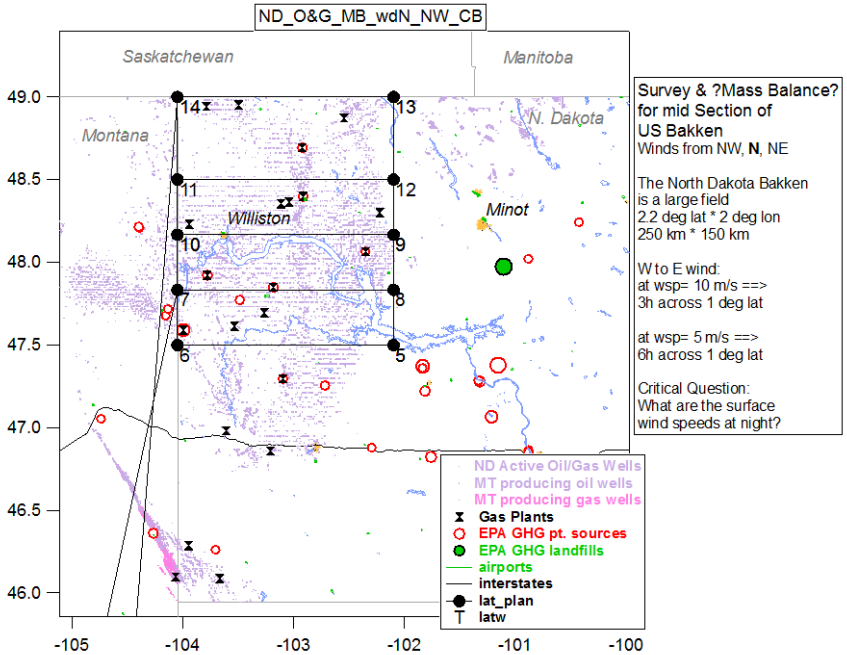
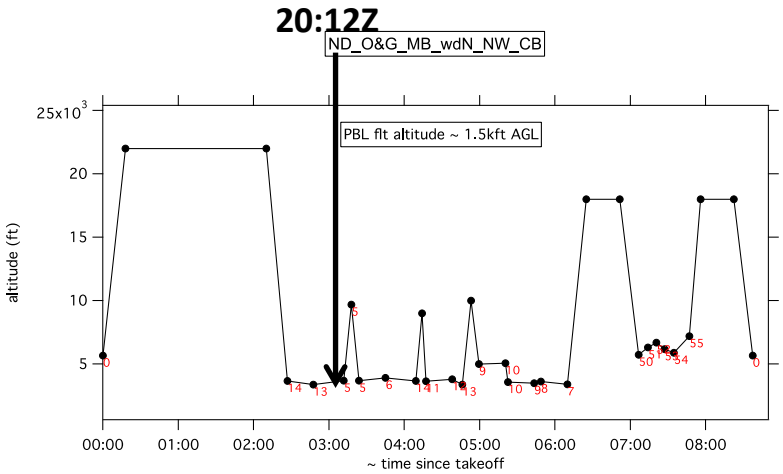
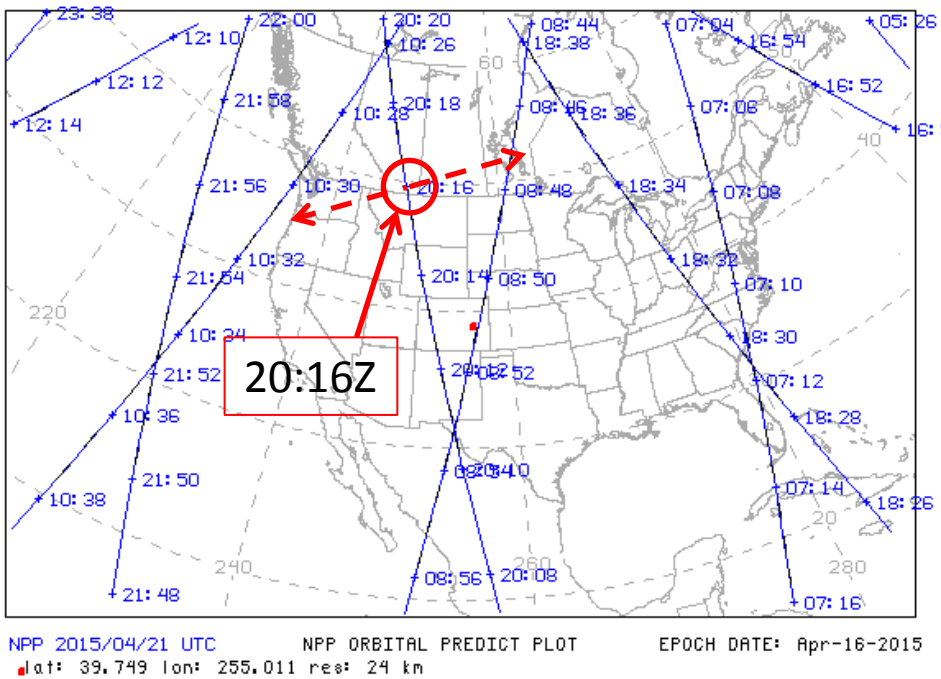
RAQMS 20150421 SONGNEX
30hr FX for 18Z April 21(Williston Basin), 2015

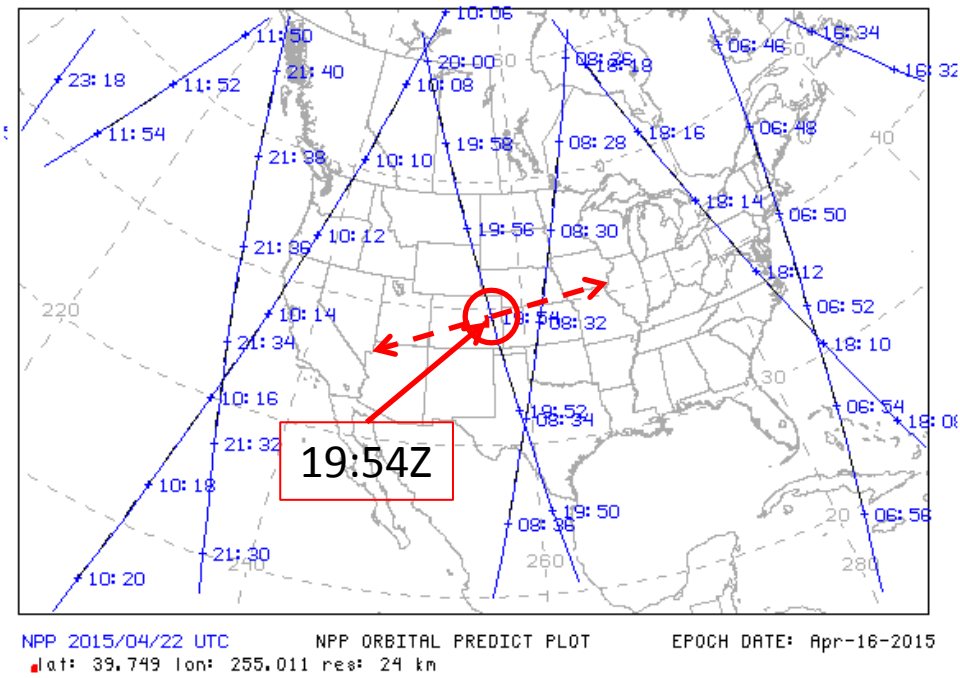




Assuming an 11:00am Mountain Takeoff

S-NPP (CrIS) overpass on 2015/04/21 and 2015/04/22
NUCAPS CO2, O3, CO, CH4 Validation Opportunity
<u>Far Eastern (21) swath</u>

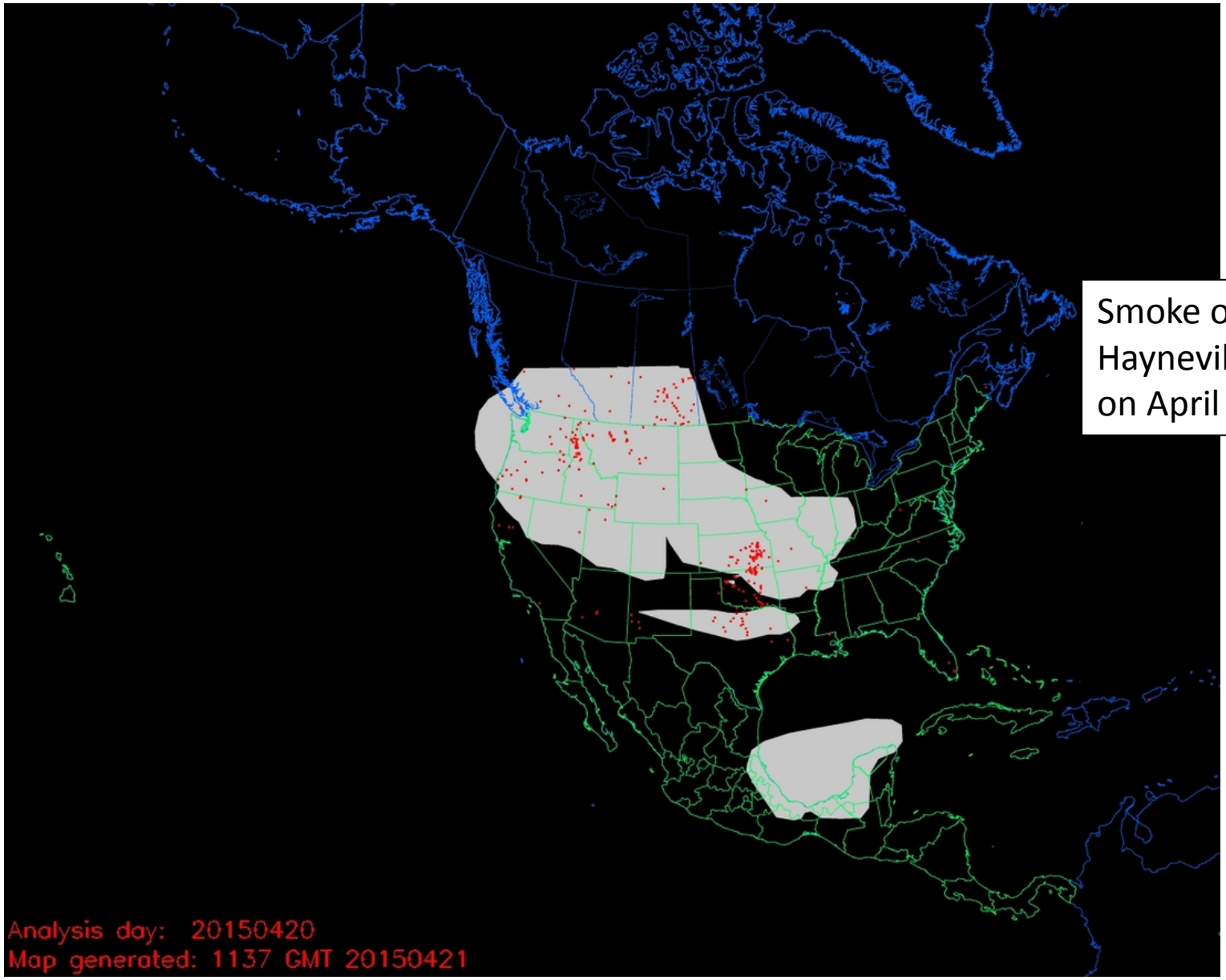




Approximate swath width

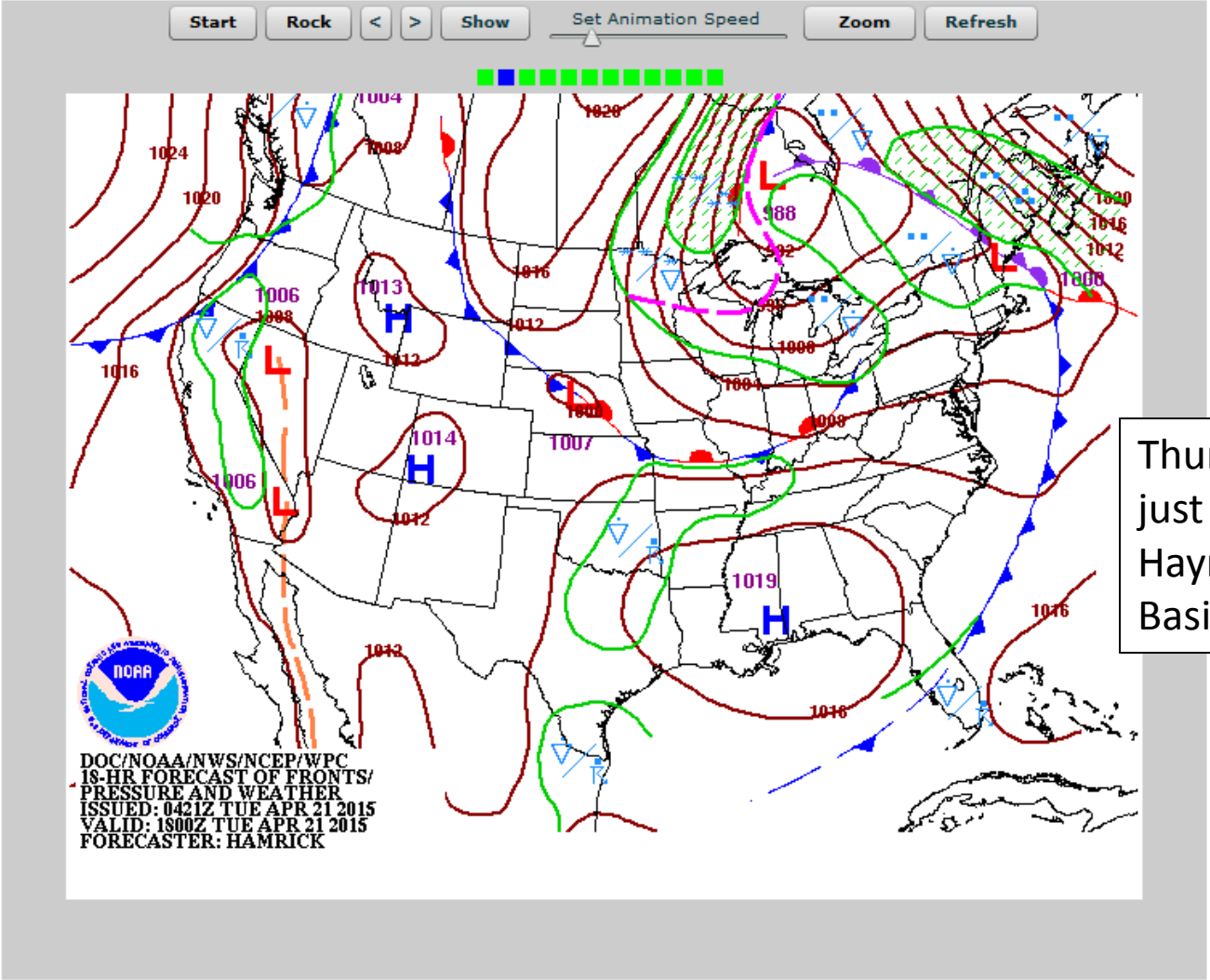
NESDIS Hazard Mapping System (HMS)

http://www.ospo.noaa.gov/data/land/fire/currenthms.jpg



Smoke over Hayneville Basin on April 20, 2015

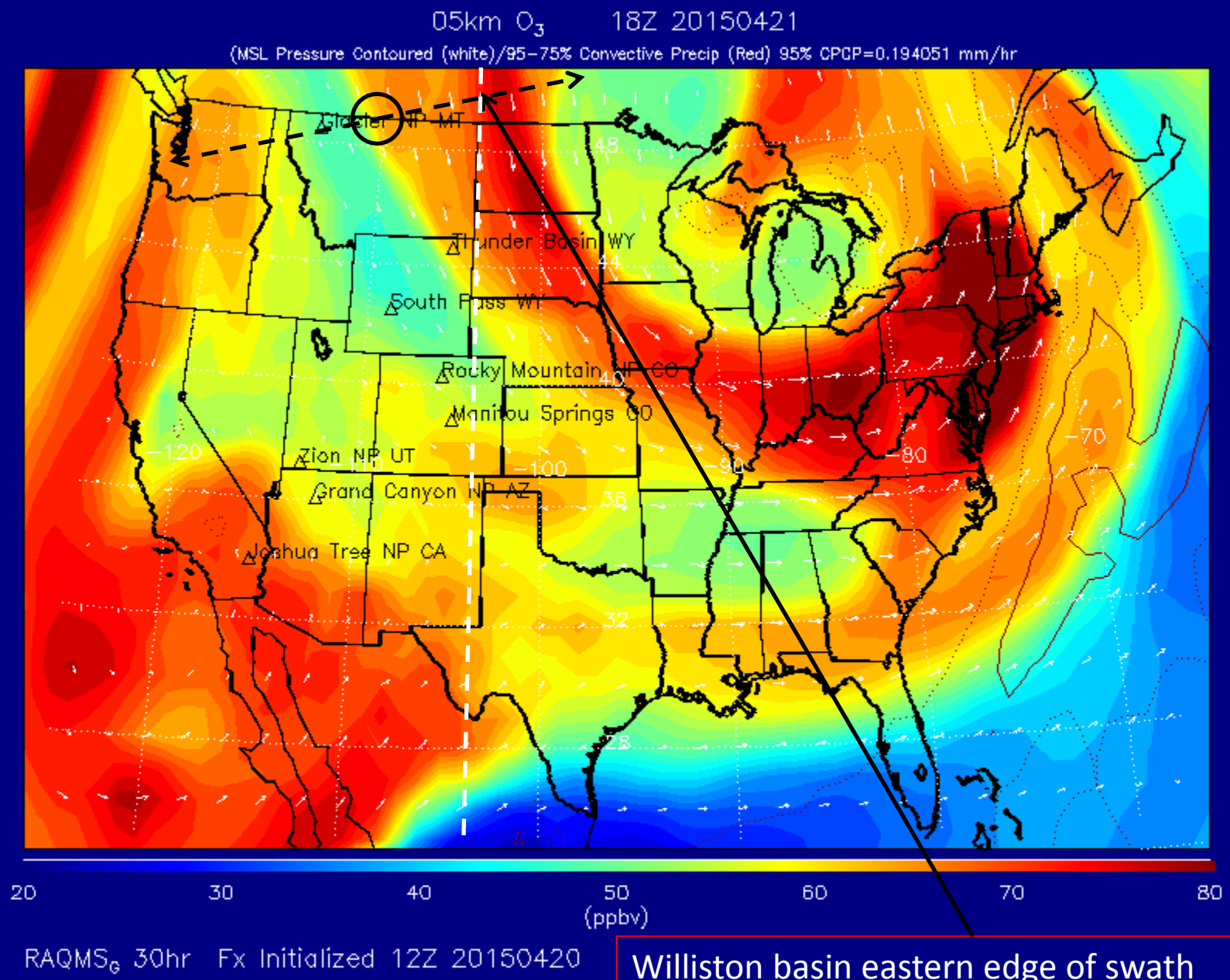
18hr NCEP/WPC forecast valid 18Z 04/21/2015



Thunderstorms just west of Haynesville Basin today

http://www.hpc.ncep.noaa.gov/basicwx/day0-7loop.html

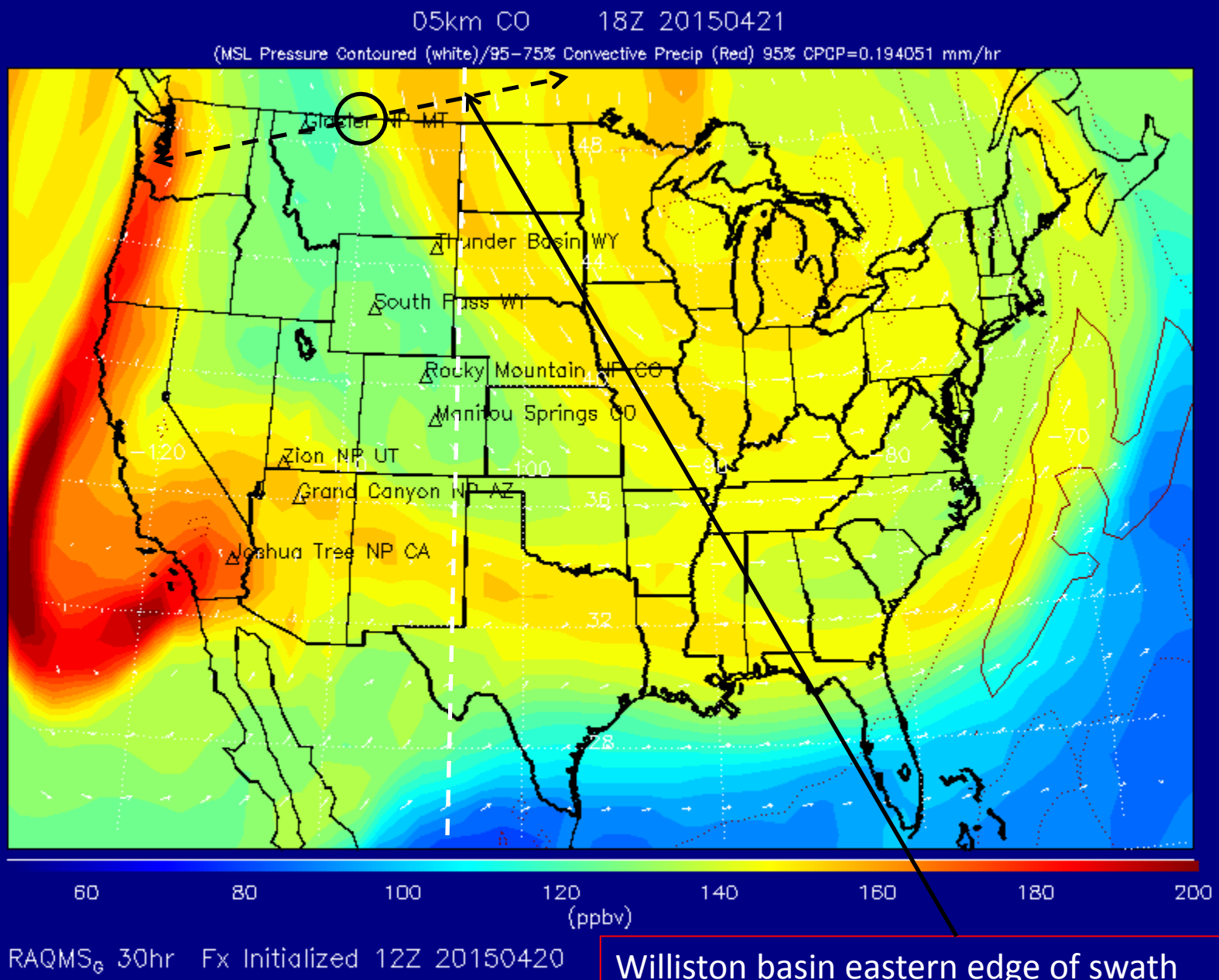
http://raqms.ssec.wisc.edu/forecast/view/20150420



Williston basin eastern edge of swath

Approximate swath width

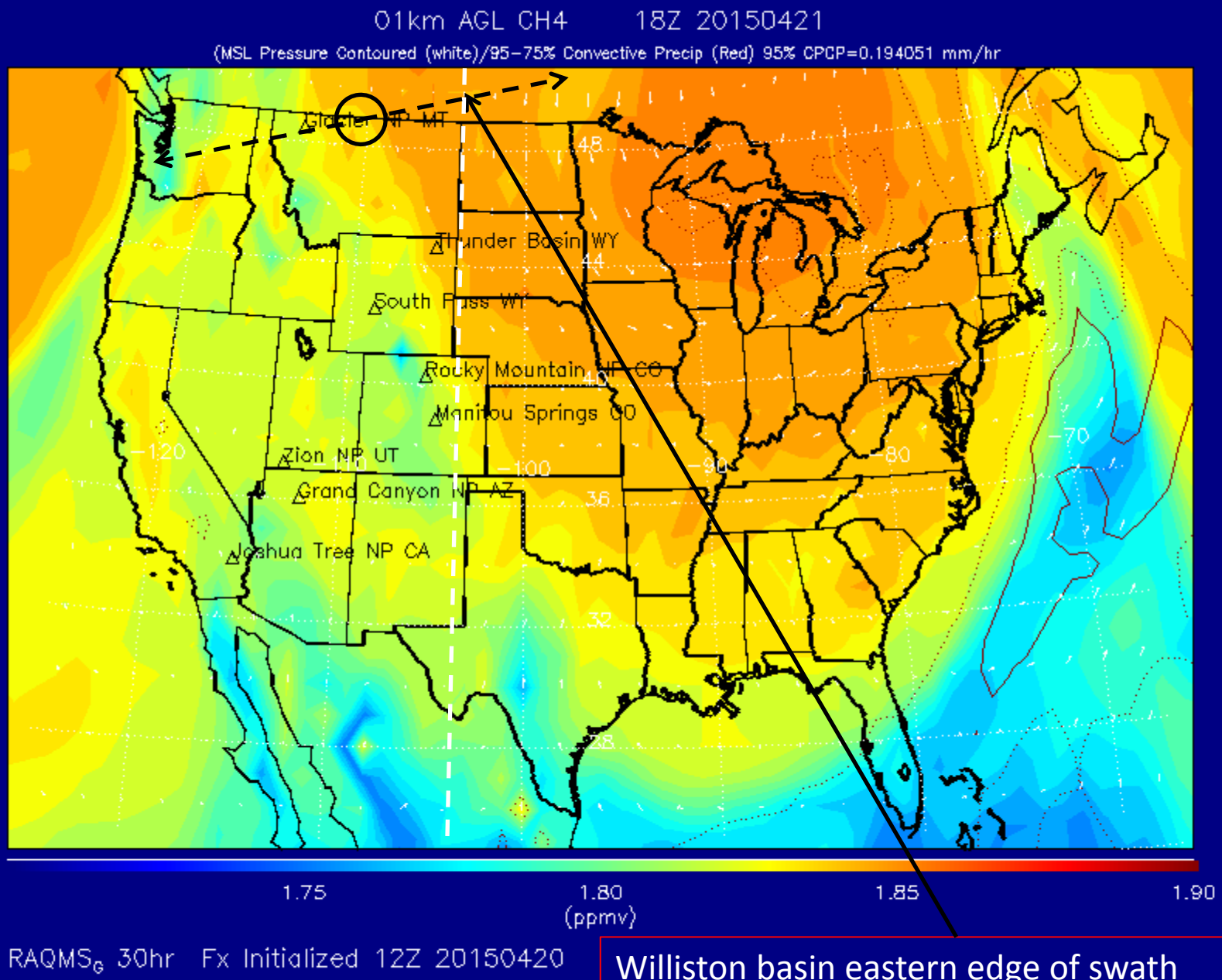
http://raqms.ssec.wisc.edu/forecast/view/20150420



Williston basin eastern edge of swath

Approximate swath width

http://raqms.ssec.wisc.edu/forecast/view/20150420

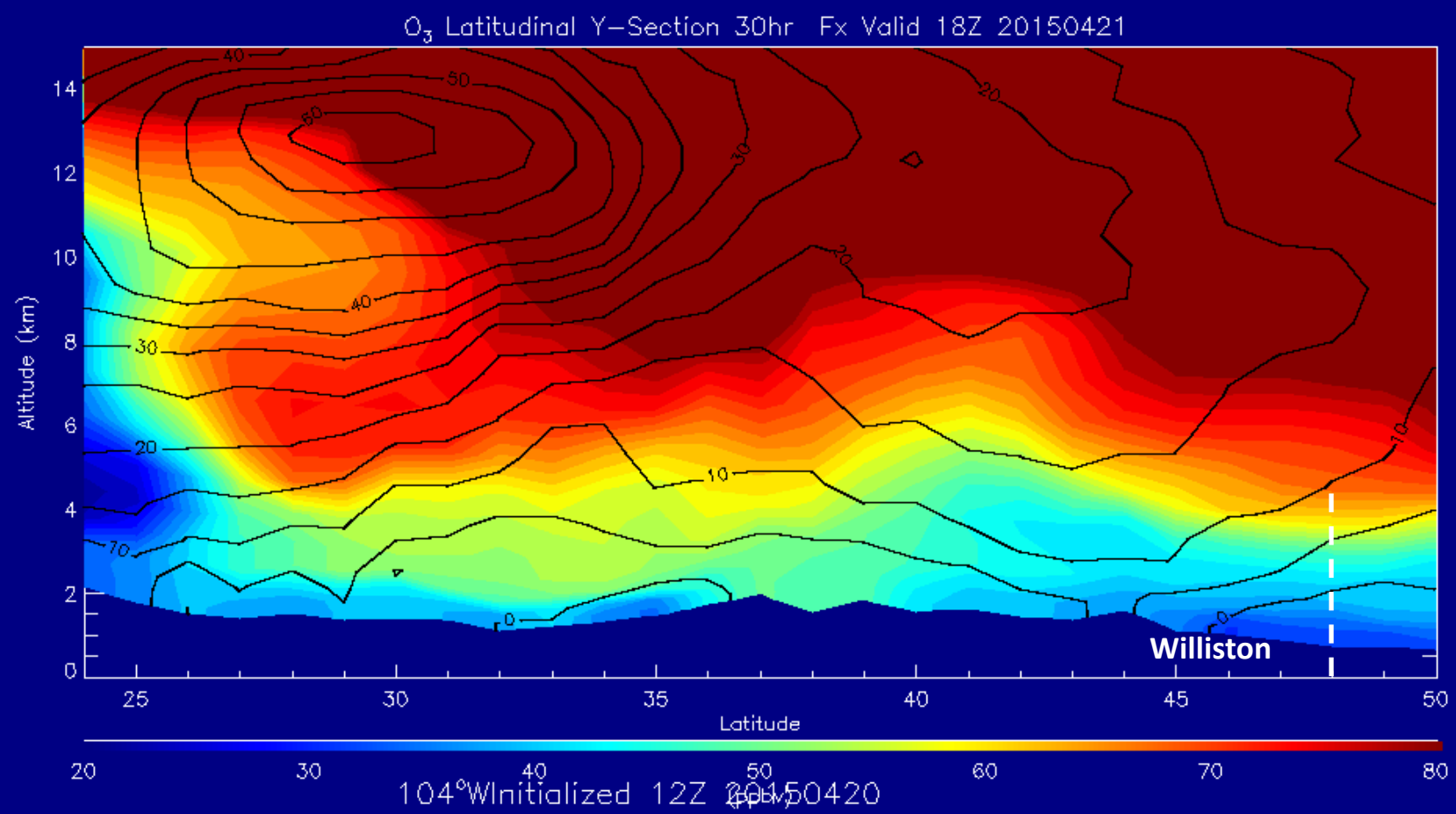


Williston basin eastern edge of swath

RAQMS surface CH4 constrained with 1990 mixing ratio – introduces ~0.1ppmv low bias

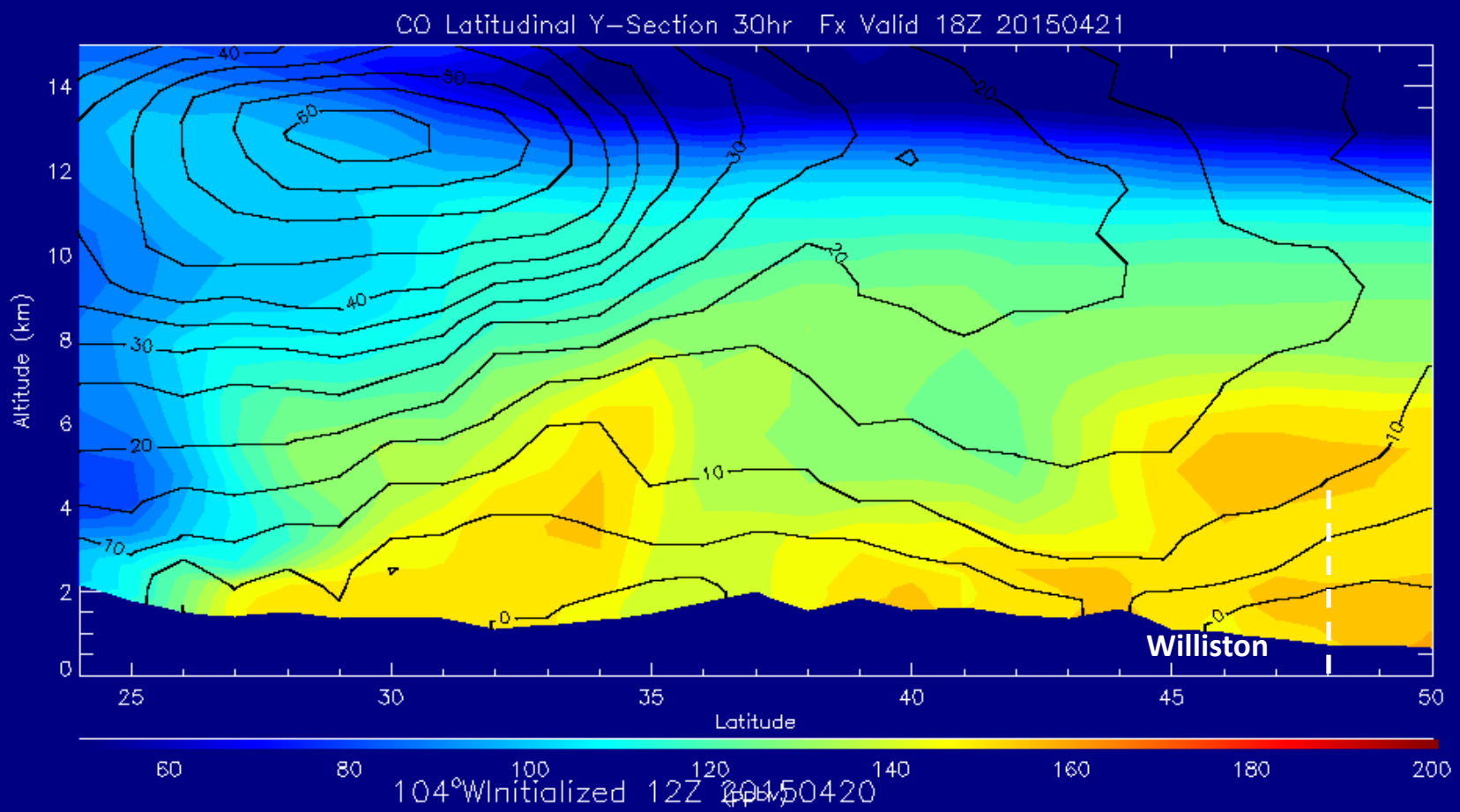
http://raqms.ssec.wisc.edu/forecast/view/20150420

RAQMS 30hr FX O3 Cross-section at 104W (Williston Basin)



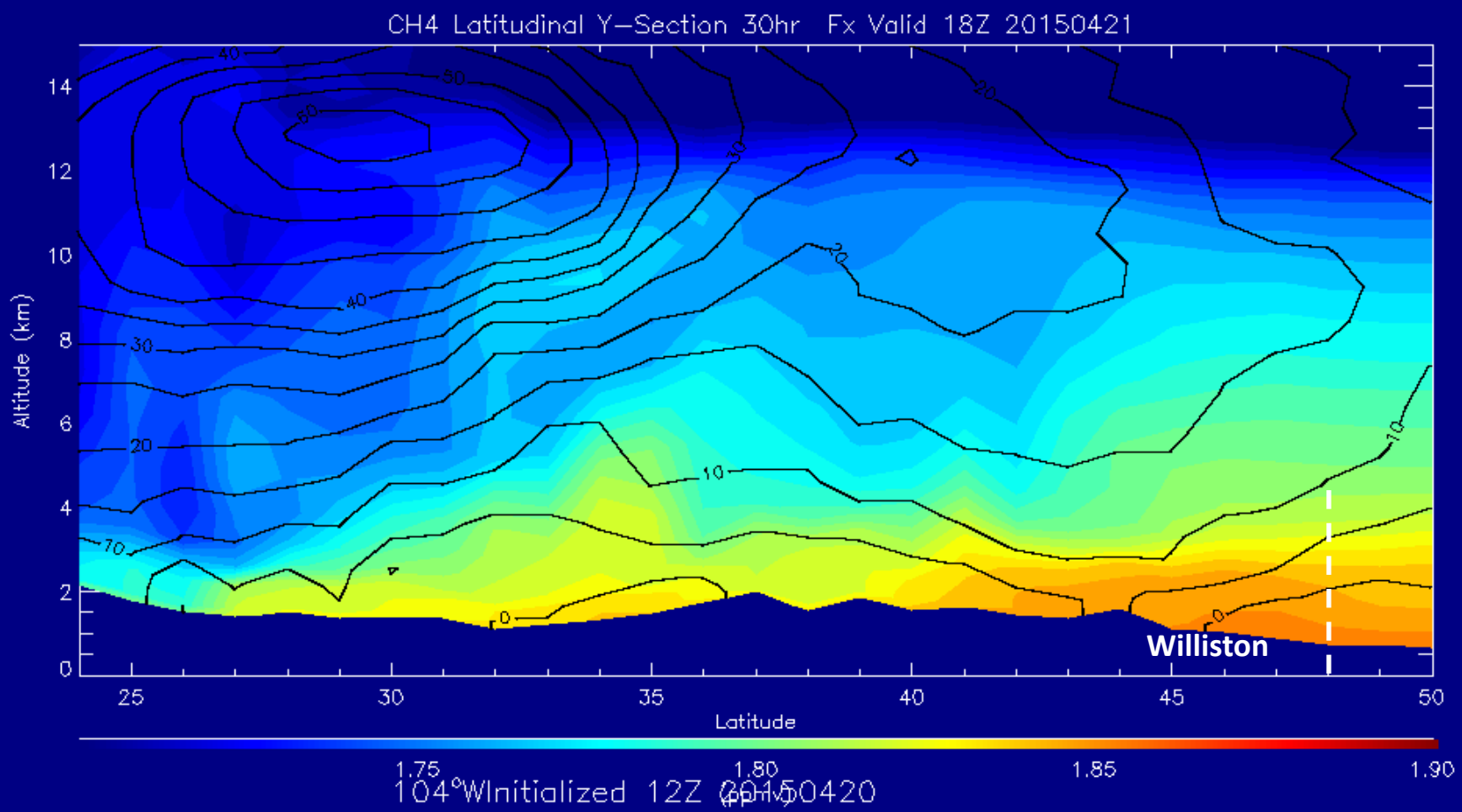
http://raqms.ssec.wisc.edu/forecast/view/20150420

RAQMS 30hr FX CO Cross-section at 104W (Williston Basin)



http://raqms.ssec.wisc.edu/forecast/view/20150420

RAQMS 30hr FX CH4 Cross-section at 104W (Haynesville Basin)



RAQMS surface CH4 constrained with 1990 mixing ratio – introduces ~0.1ppmv low bias