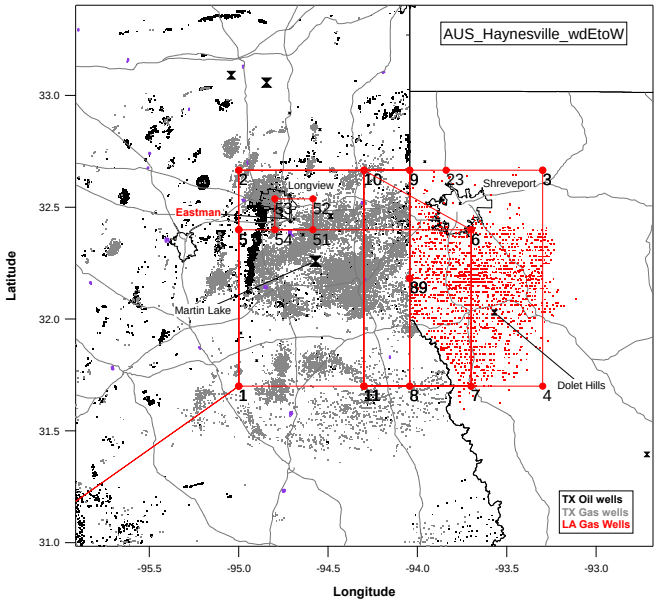
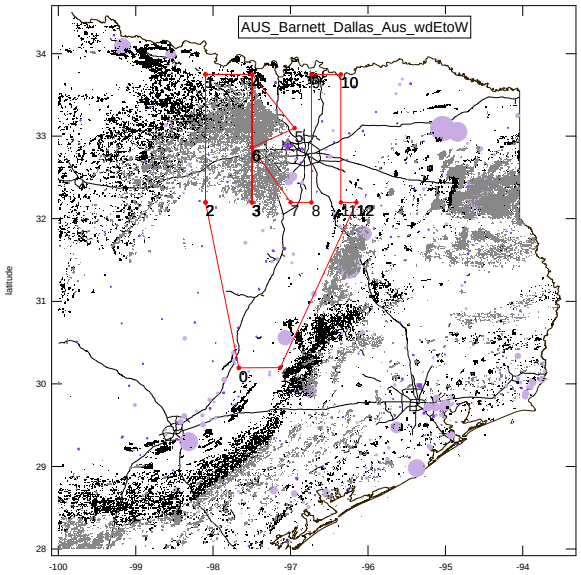
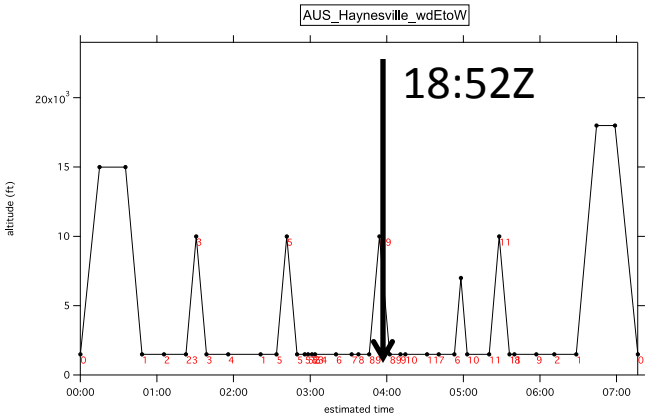
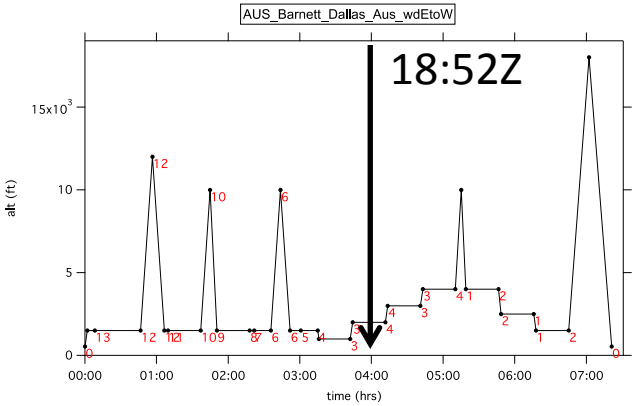
RAQMS 20150404 SONGNEX
30hr FX for 18Z April 04, 2015







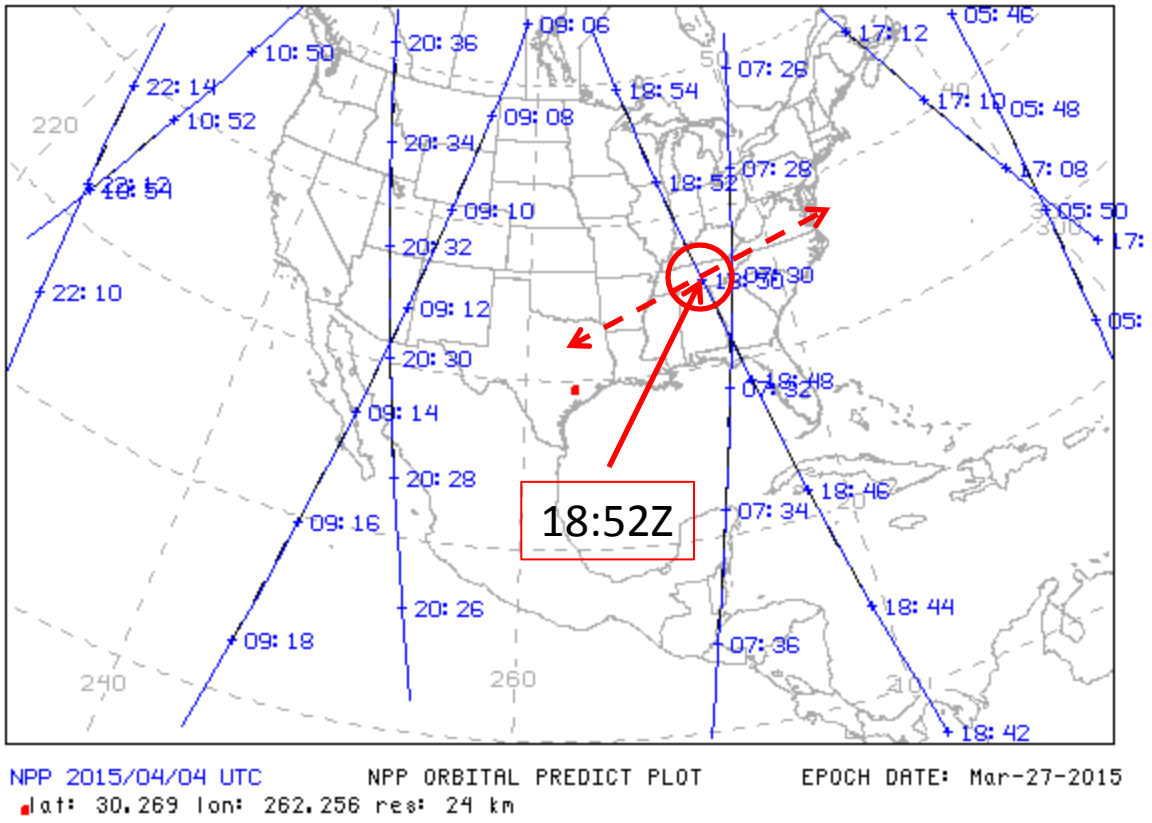


Assuming 10am Central Take-off

S-NPP (CrIS) overpass on 2015/04/04

NUCAPS CO2, O3, CO, CH4 Validation Opportunity –***western swath***

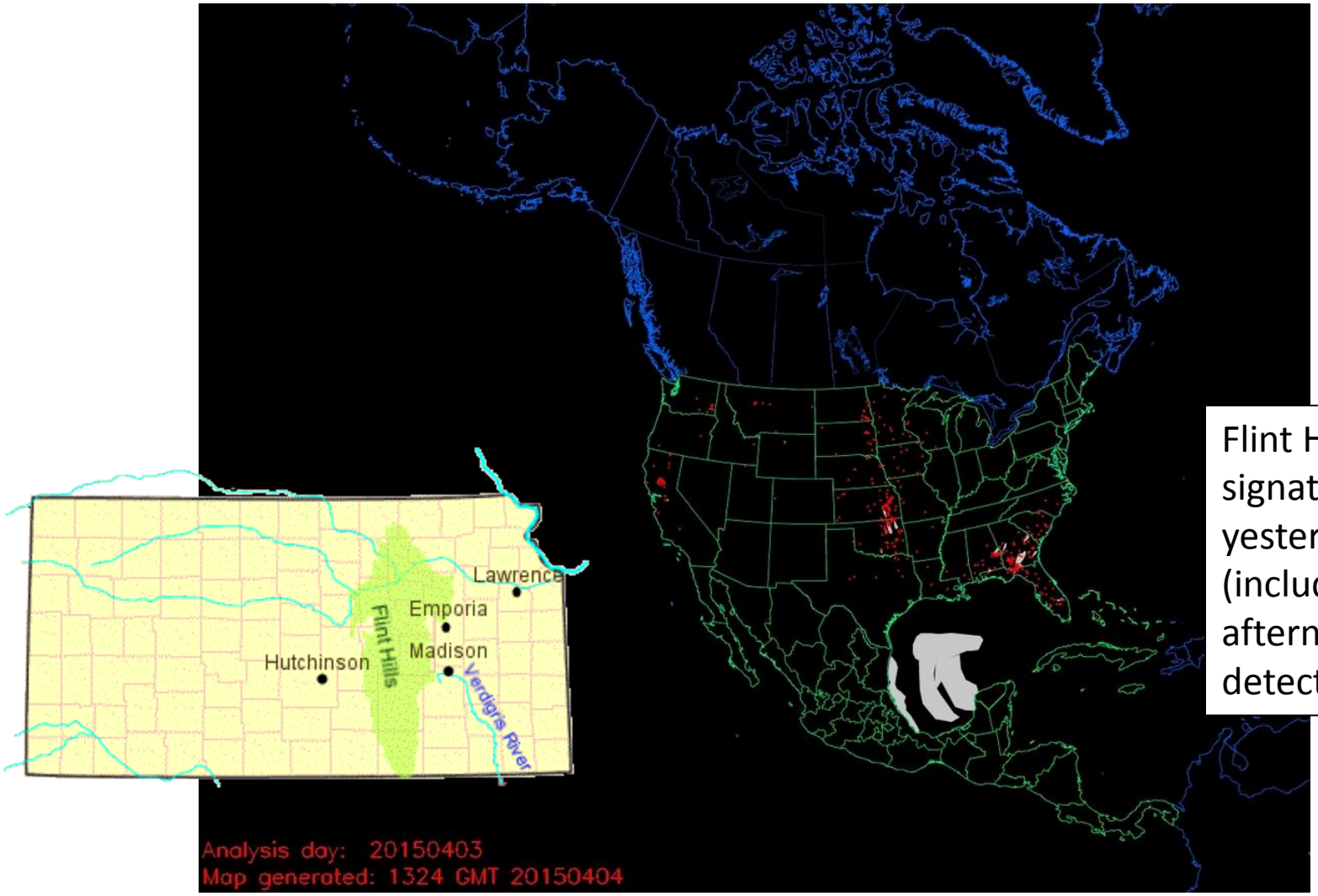
S-NPP overpass over Dallas at 18:52Z (1:52pm Central)



Approximate swath width

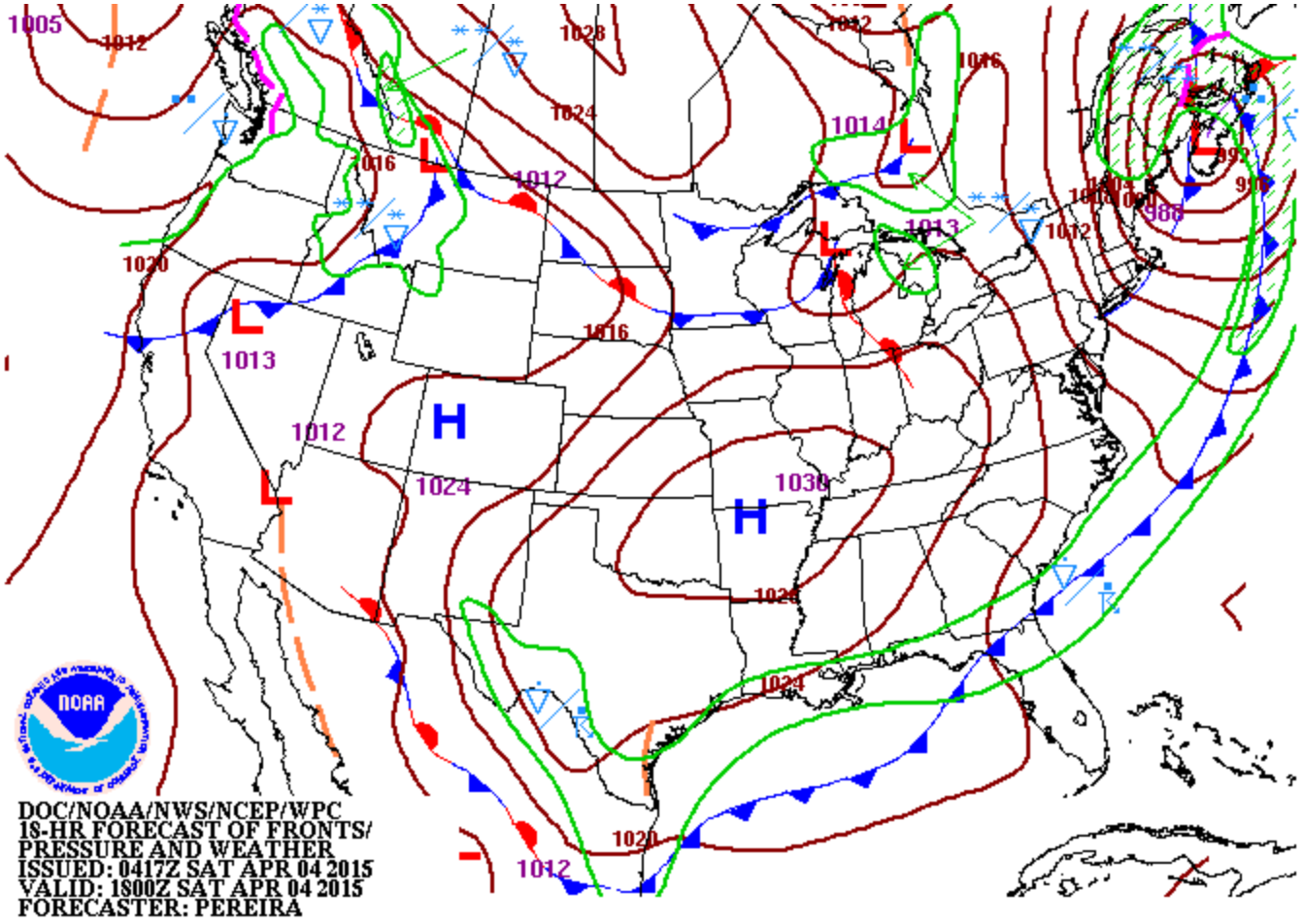
NESDIS Hazard Mapping System (HMS)

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



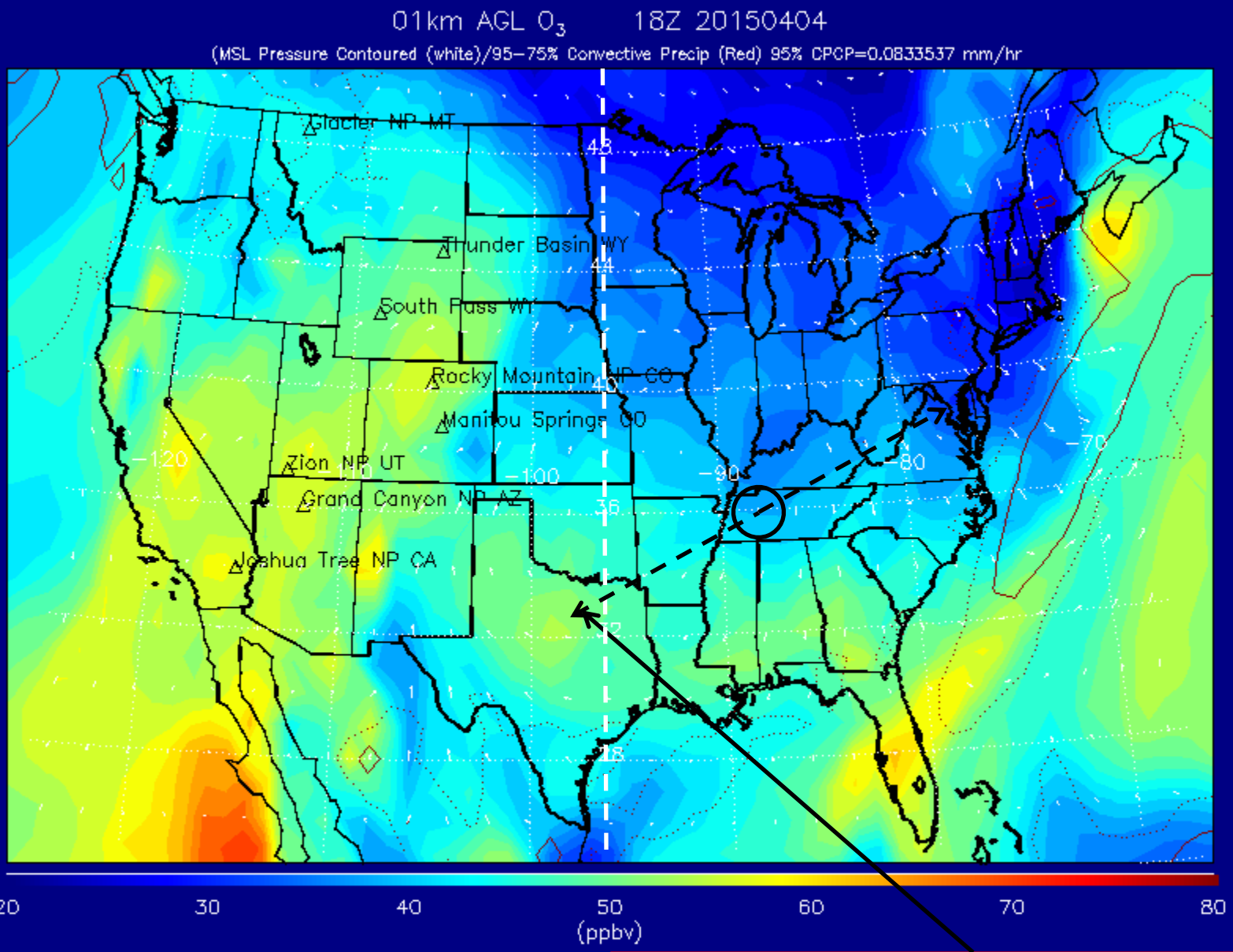
Flint Hill fire signature present yesterday (including afternoon detection)

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



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

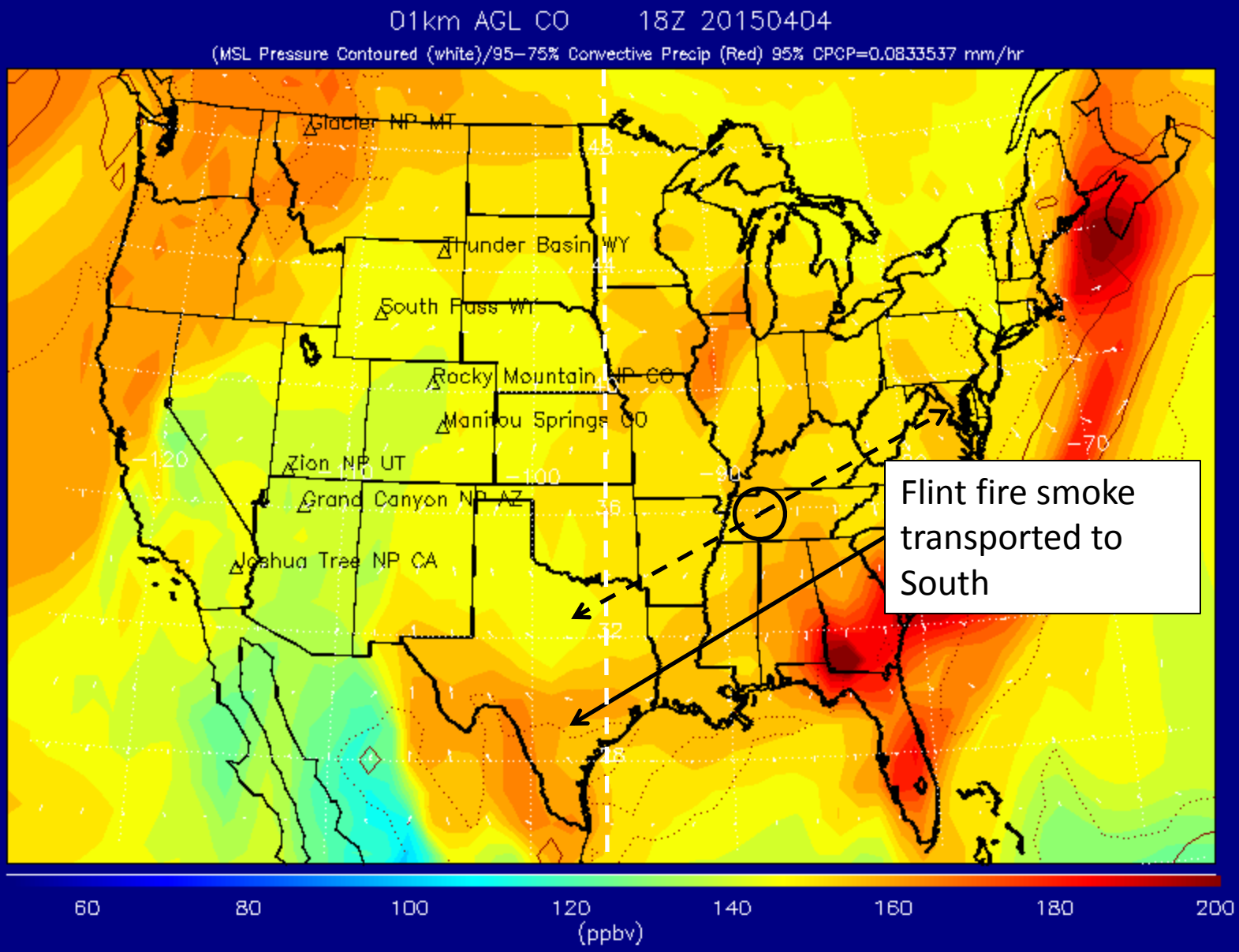
http://raqms.ssec.wisc.edu/forecast/view/20150403



Dallas, TX on Western edge of S-NPP swath

Approximate swath width

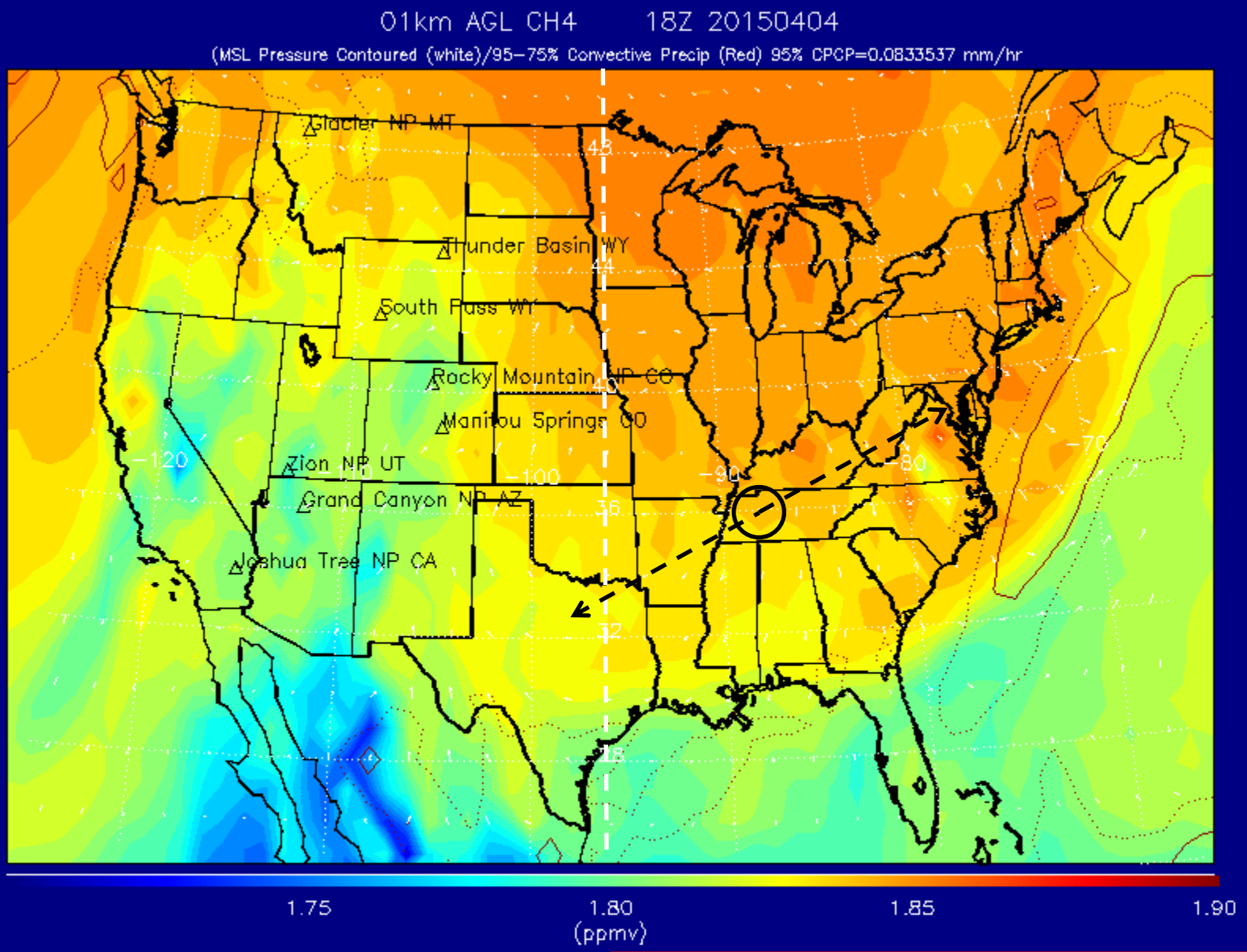
http://raqms.ssec.wisc.edu/forecast/view/20150403



Dallas, TX on Western edge of S-NPP swath

Approximate swath width

http://raqms.ssec.wisc.edu/forecast/view/20150403

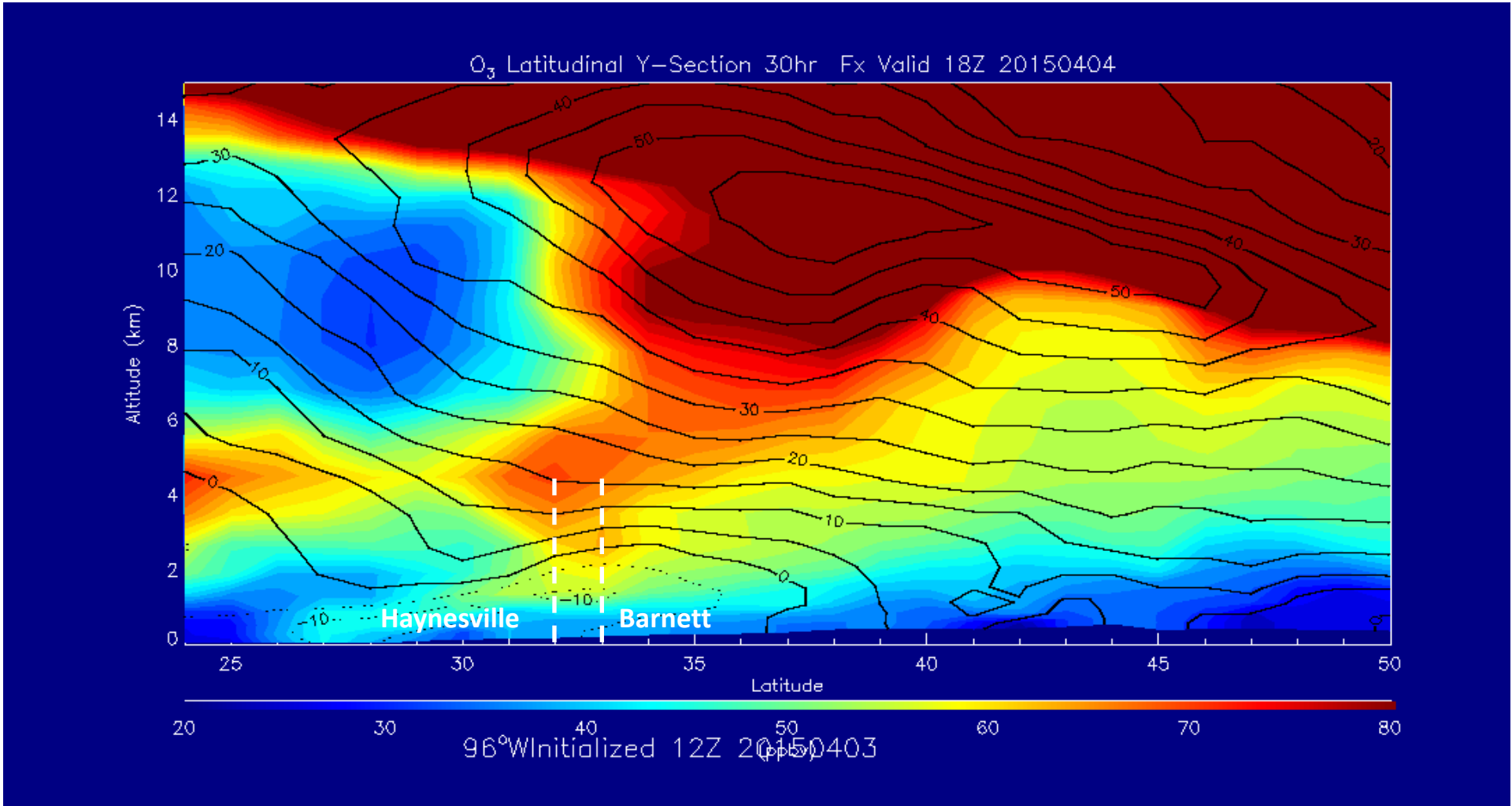


Dallas, TX on Western edge of S-NPP swath

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

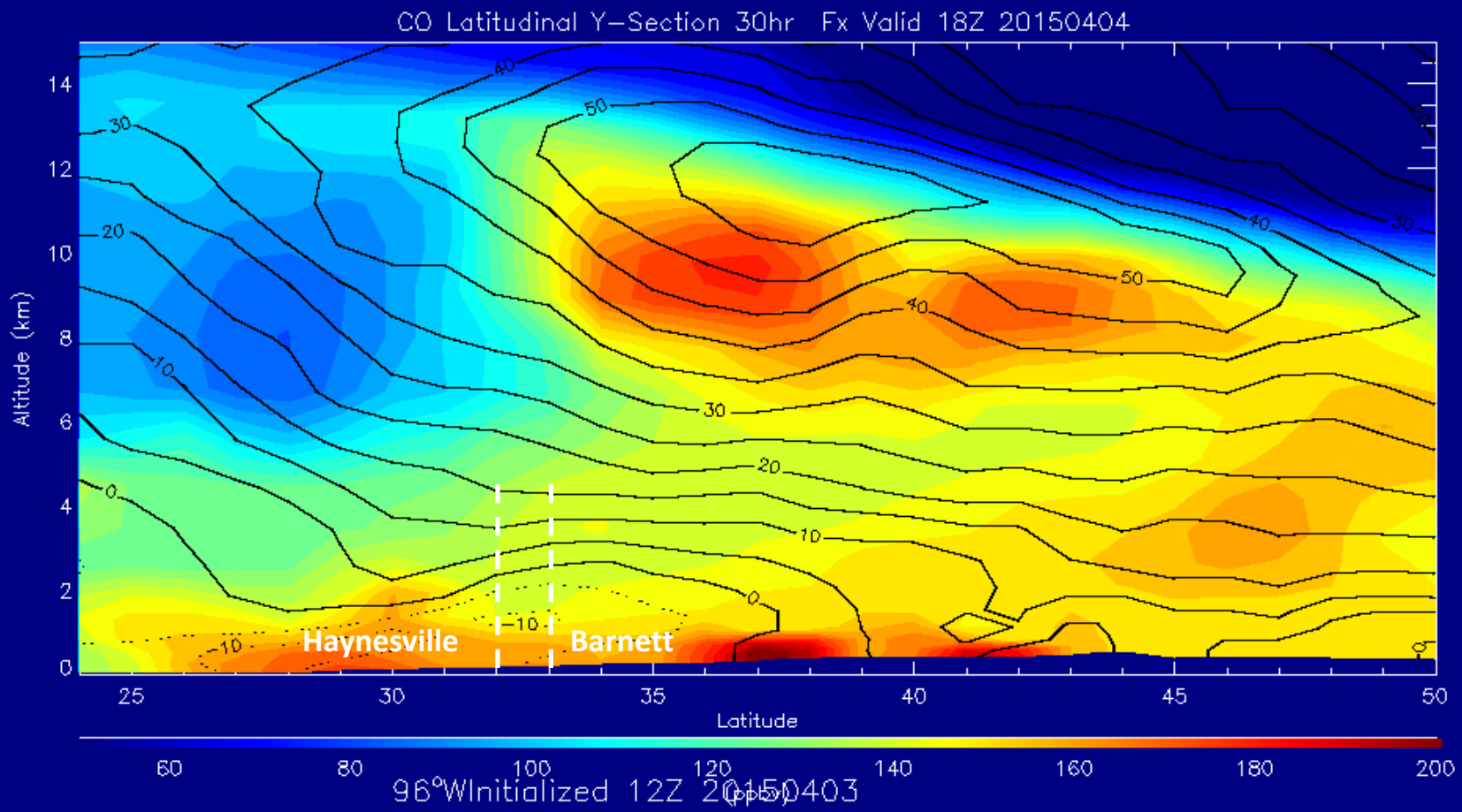
http://raqms.ssec.wisc.edu/forecast/view/20150403

RAQMS 30hr FX O3 Cross-section at 96W (Between Hayneville and Barnett fields)



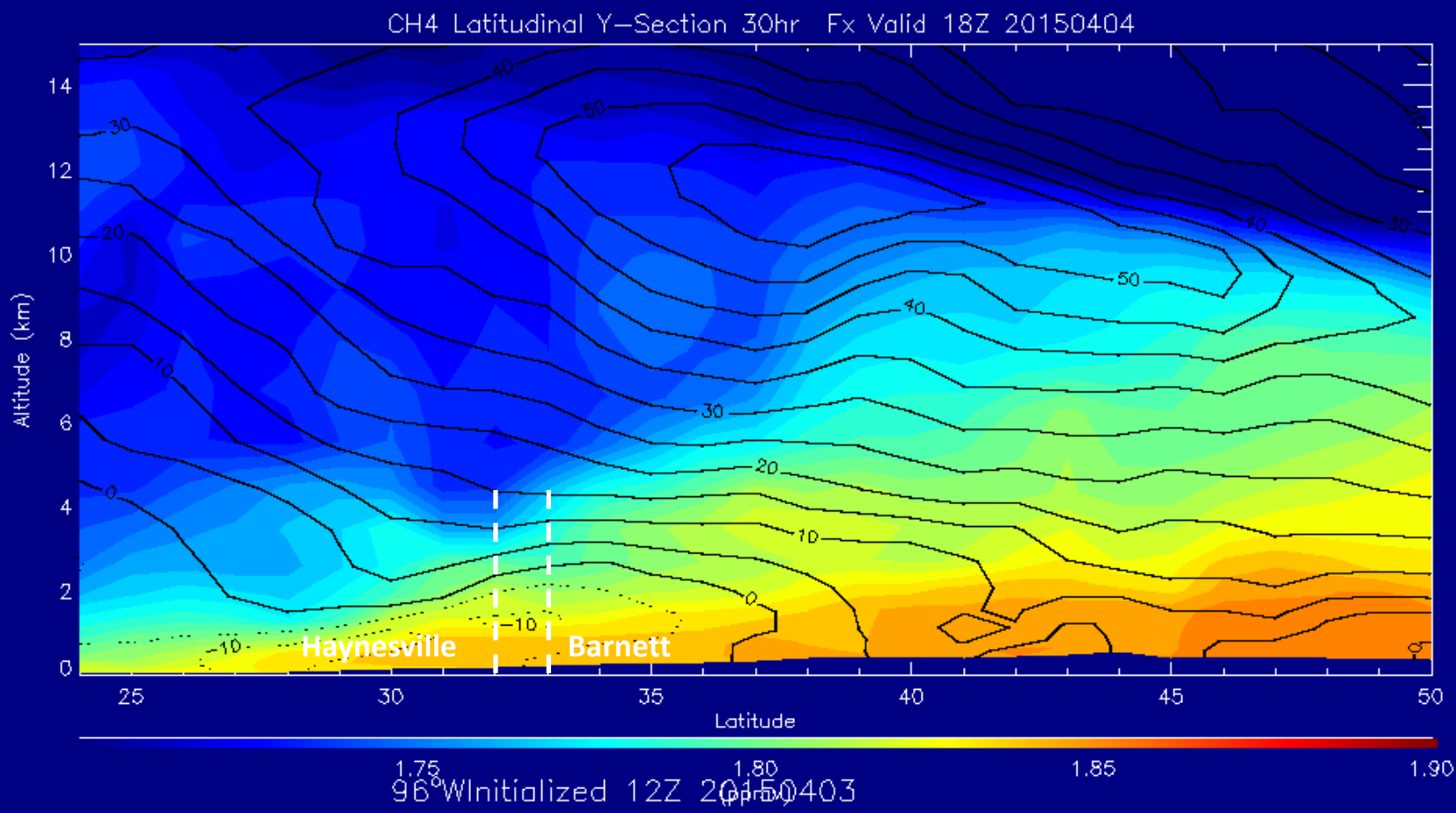
http://raqms.ssec.wisc.edu/forecast/view/20150403

RAQMS 30hr FX CO Cross-section at 96W
(Between Hayneville and Barnett fields)

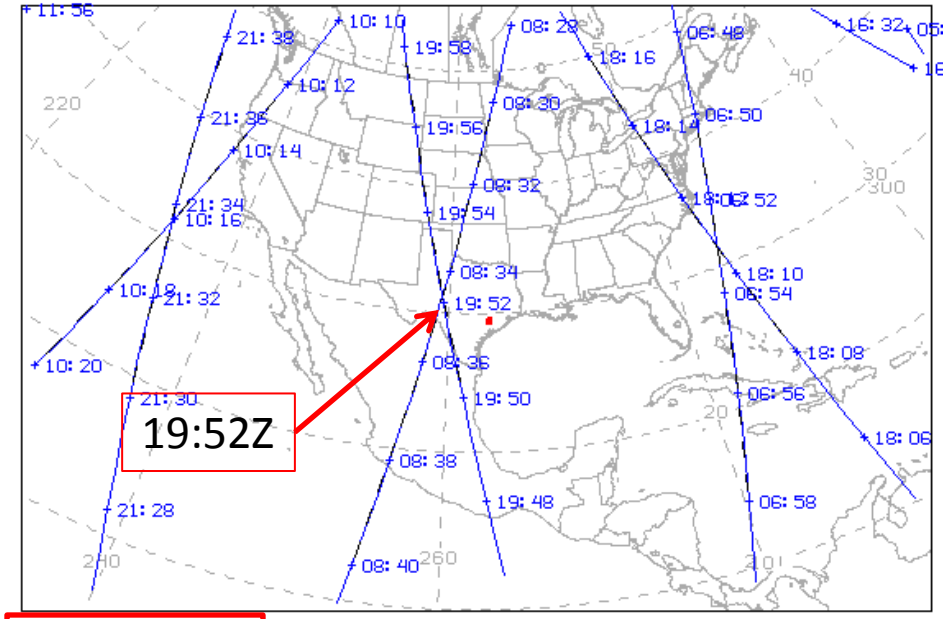


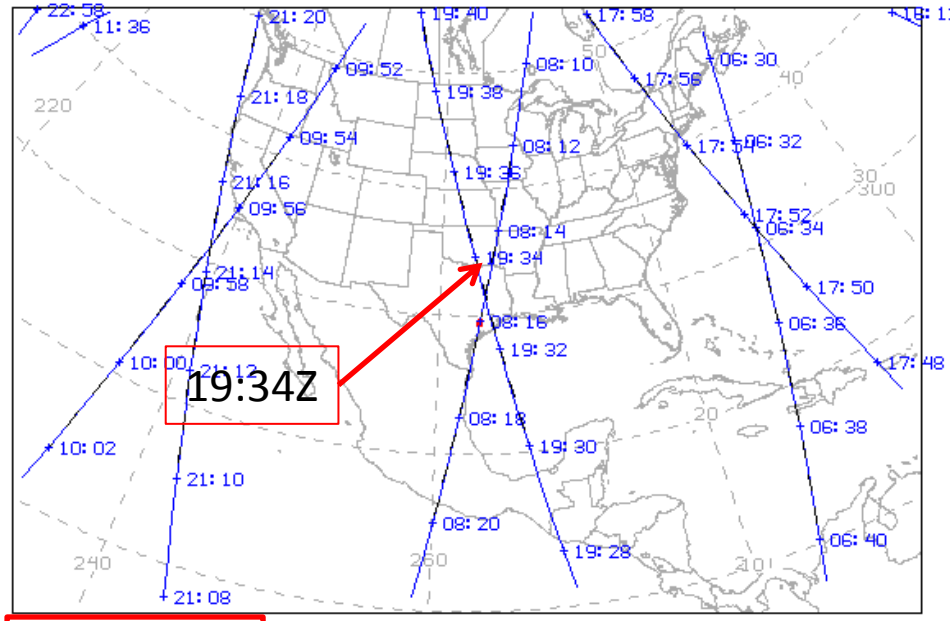
http://raqms.ssec.wisc.edu/forecast/view/20150403

RAQMS 30hr FX CH4 Cross-section at 98W (Between Hayneville and Barnett fields)



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


19:52Z
NPP 2015/04/06 UTC
NPP ORBITAL PREDICT PLOT
EPOCH DATE: Apr-4-2015
lat: 30.269 lon: 262.256 res: 24 km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NPP 2015/04/07 UTC
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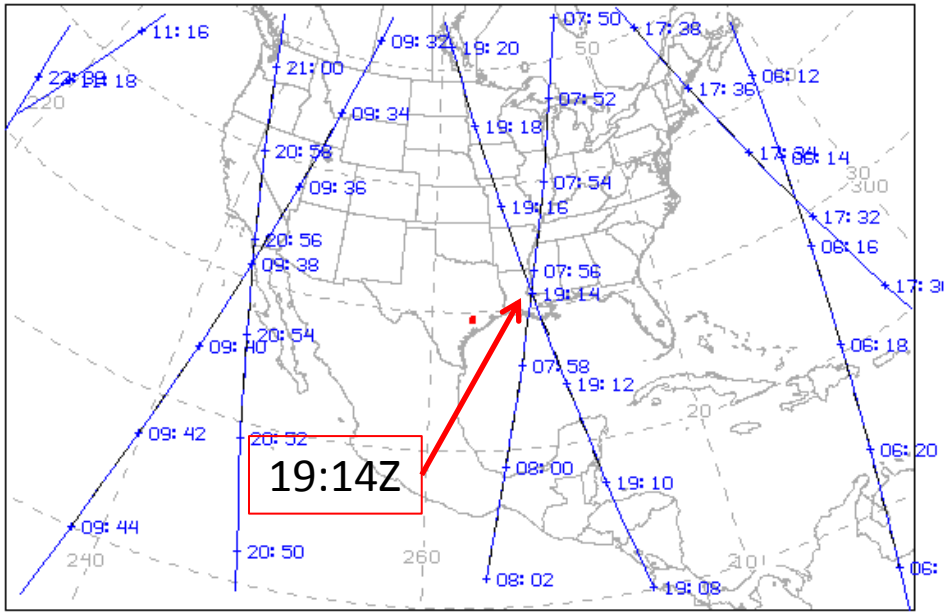
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NPP 2015/04/08 UTC
NPP ORBITAL PREDICT PLOT
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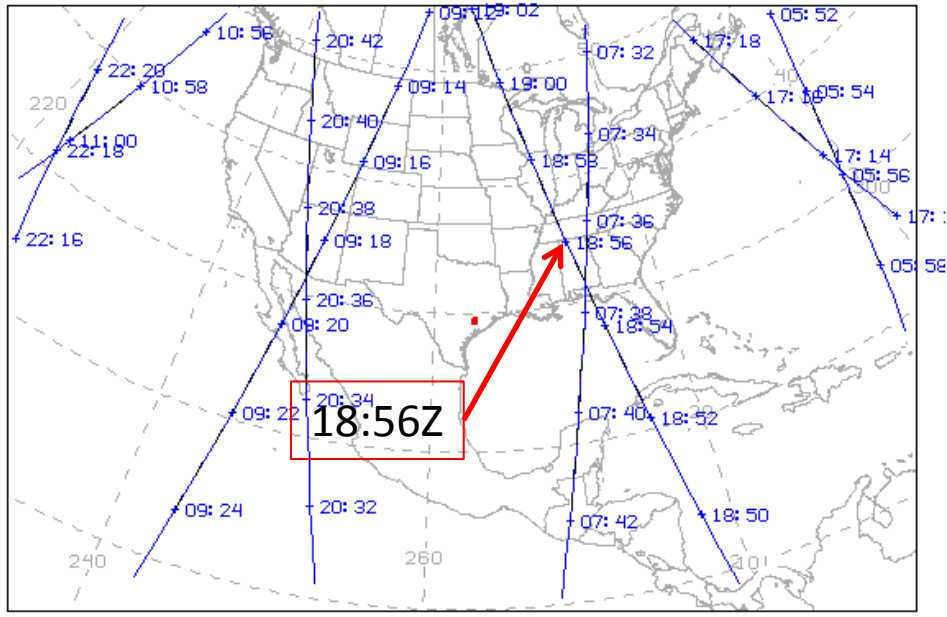
lat: 30.269 lon: 262.256 res: 24 km


18:56Z
NPP 2015/04/09 UTC
NPP ORBITAL PREDICT PLOT
EPOCH DATE: Apr-4-2015
lat: 30.269 lon: 262.256 res: 24 km