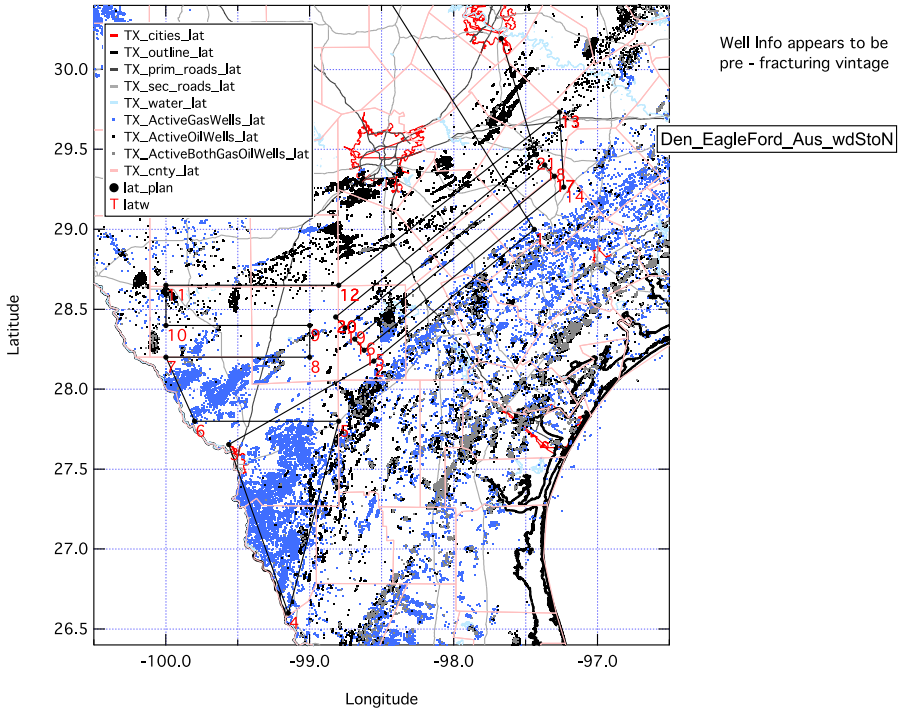
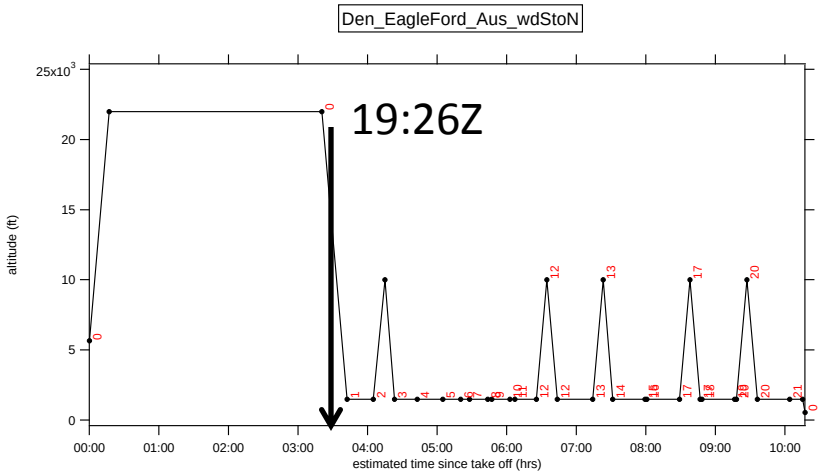
# RAQMS 20150402 SONGNEX
# 30hr Forecast for 18Z April 02, 2015 Eagle Ford and Transit to Austin, TX
# 78hr FX for 18Z April 04, 2015 Possible Science Flight

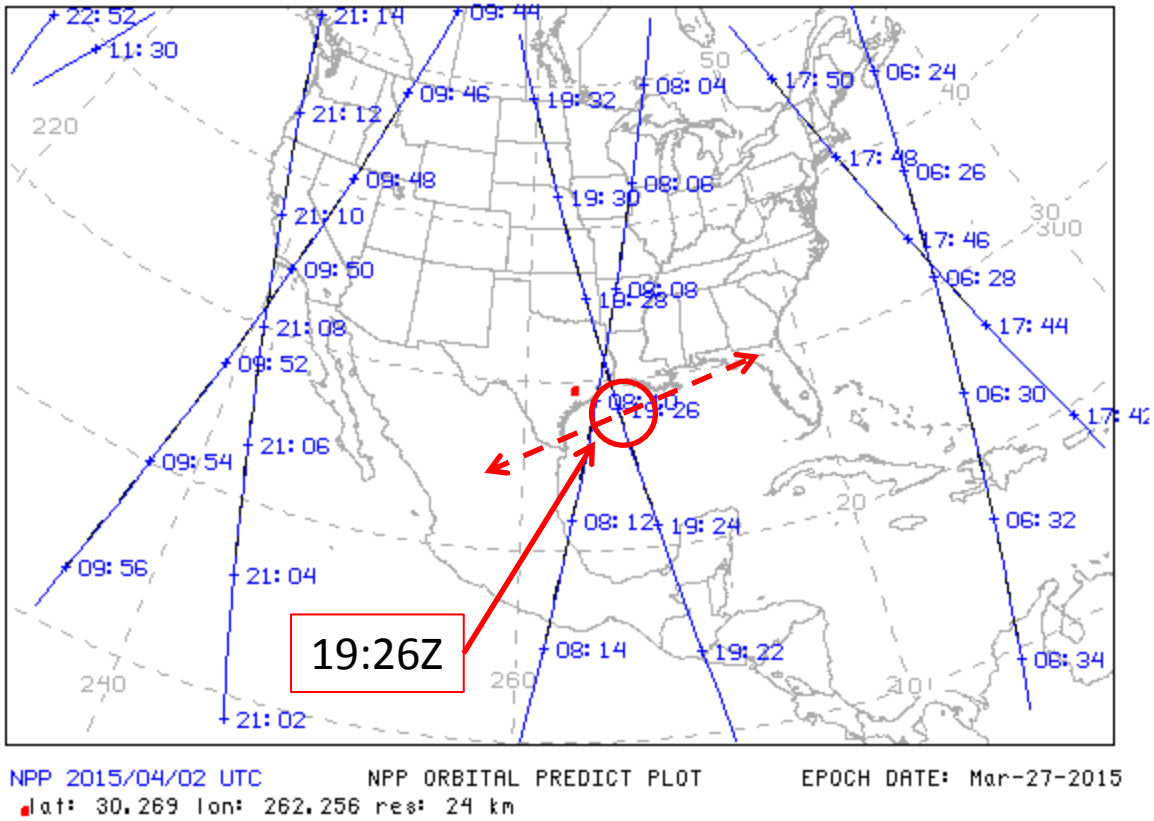


S-NPP (CrIS) overpass on 2015/04/02

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

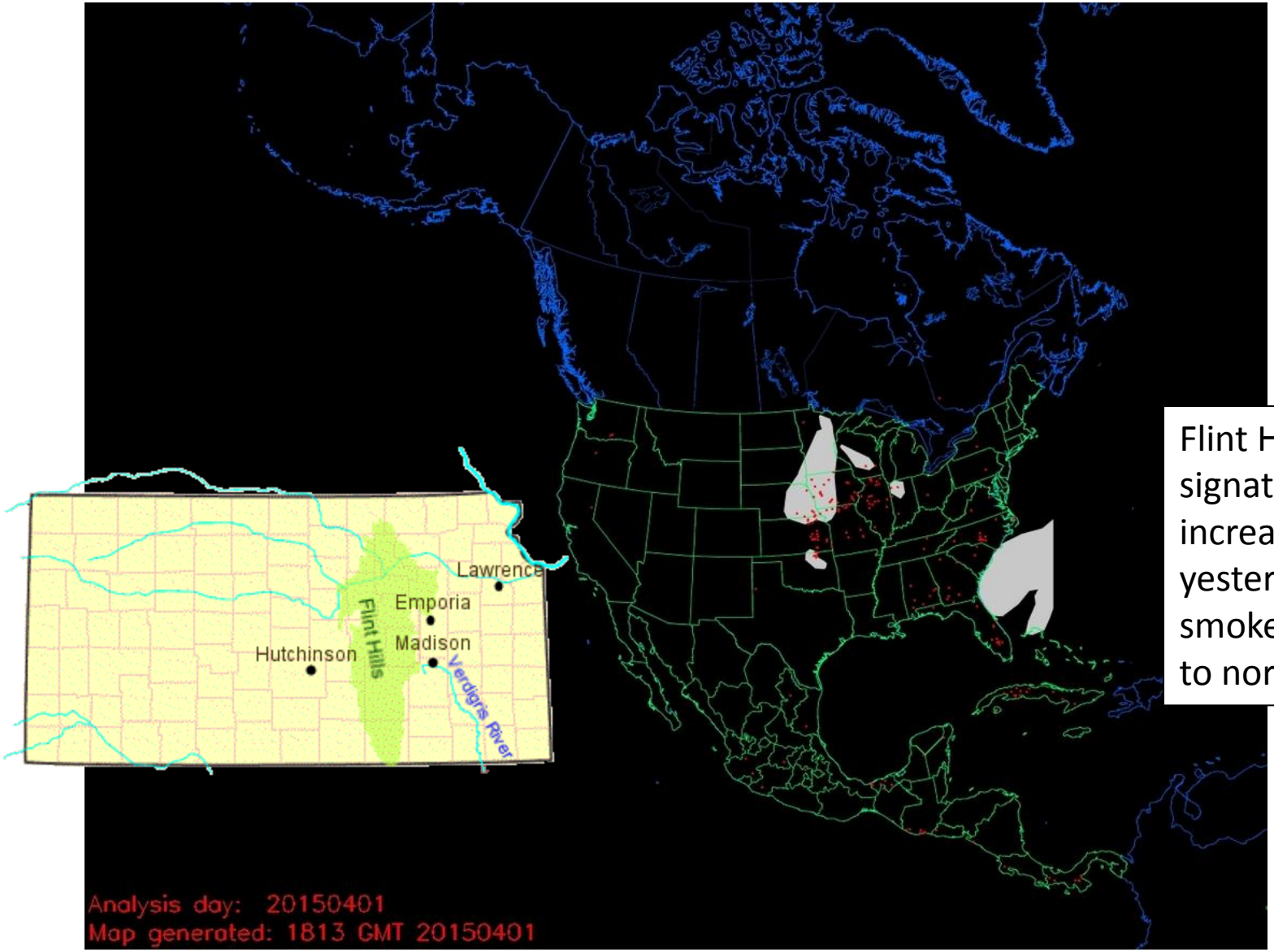
S-NPP overpass over Austin at 19:26Z (2:24pm Central)




**Approximate swath width**

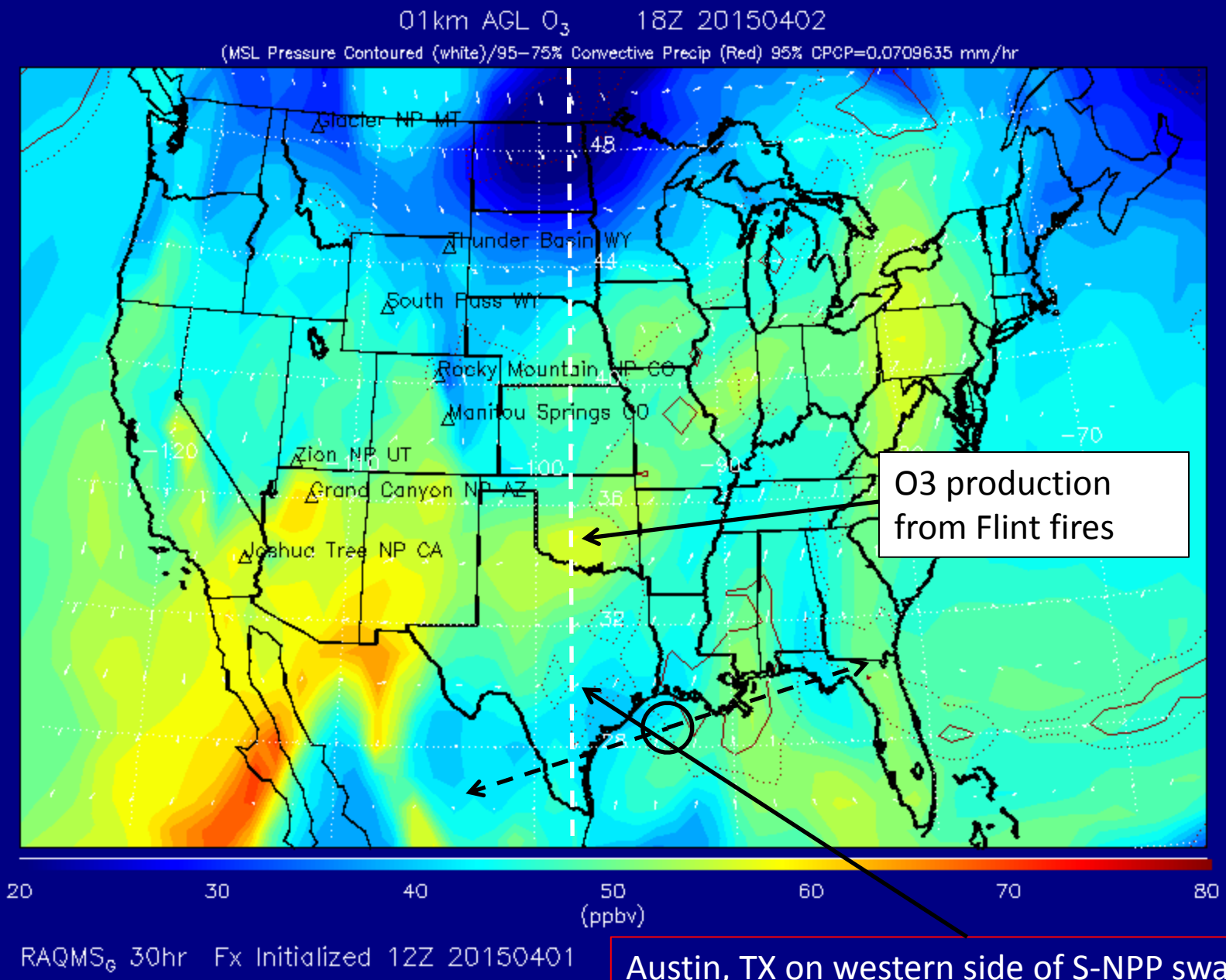
# NESDIS Hazard Mapping System (HMS)

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




Flint Hill fire signature has increased from yesterday – smoke tranport to north

http://raqms.ssec.wisc.edu/forecast/view/20150401

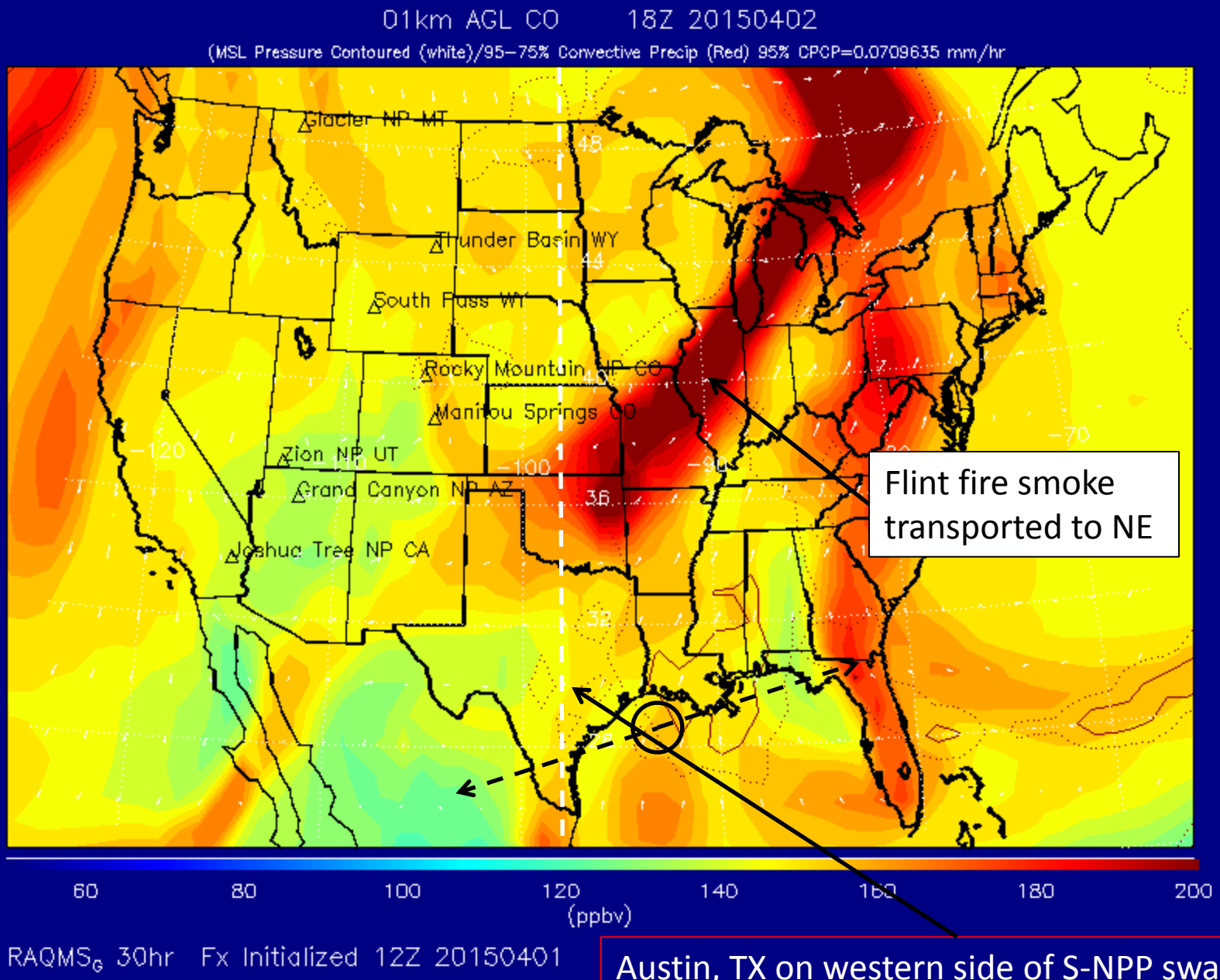



O3 production from Flint fires

Austin, TX on western side of S-NPP swath

**Approximate swath width**

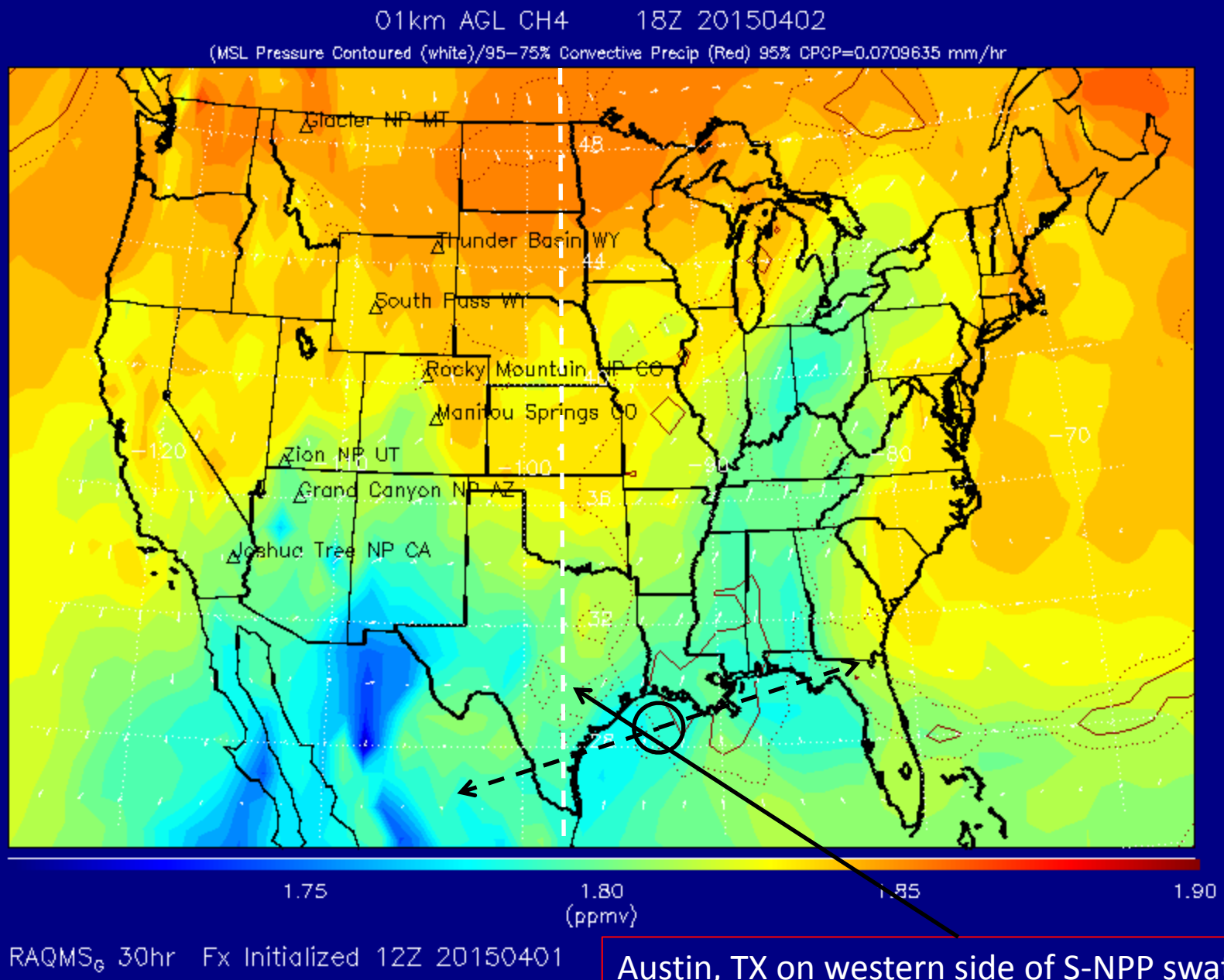
http://raqms.ssec.wisc.edu/forecast/view/20150401




Austin, TX on western side of S-NPP swath

**Approximate swath width**

http://raqms.ssec.wisc.edu/forecast/view/20150401

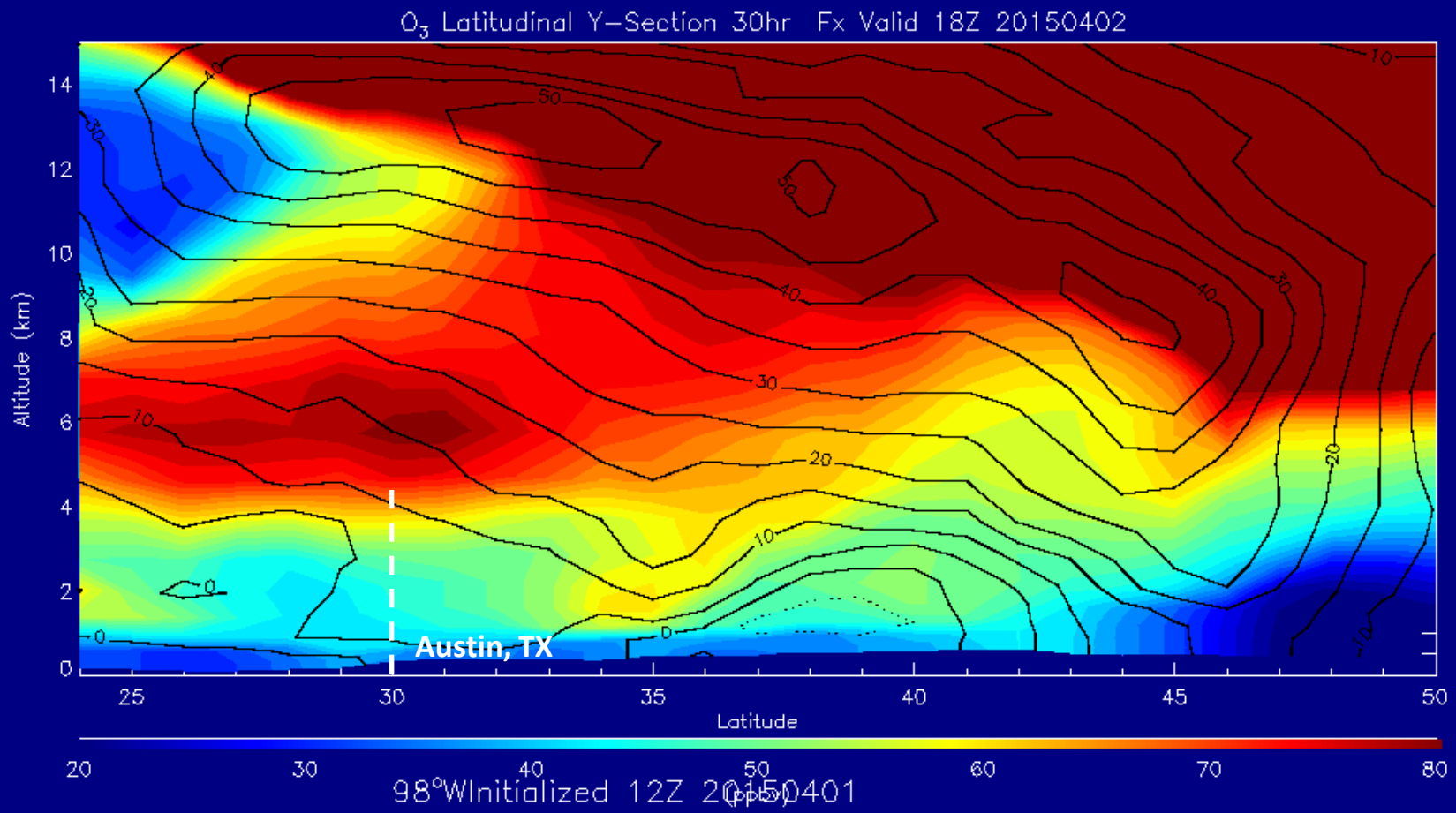



Austin, TX on western side of S-NPP swath

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

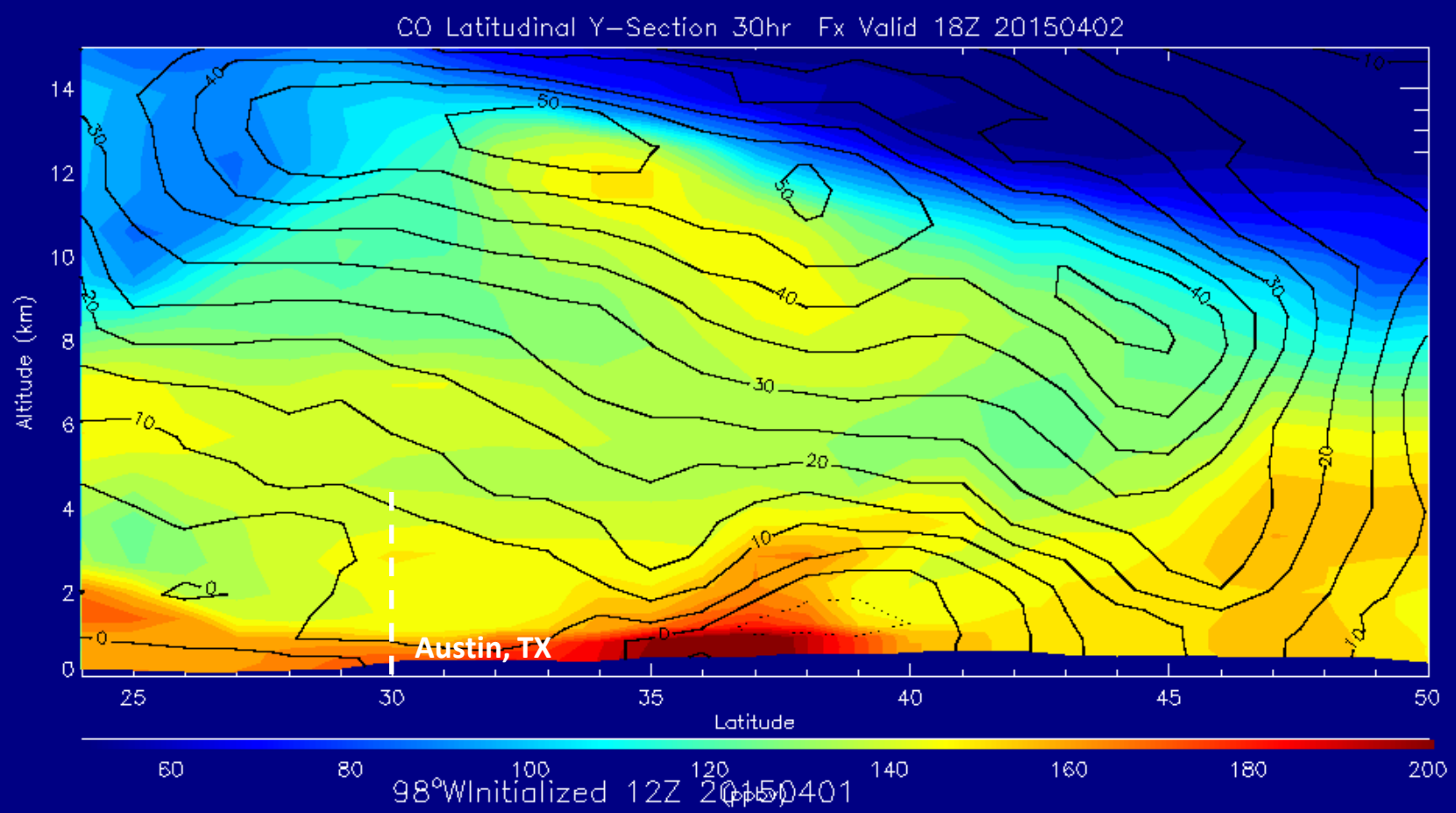
http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 30hr FX O3 Cross-section at 98W (Austin, TX)



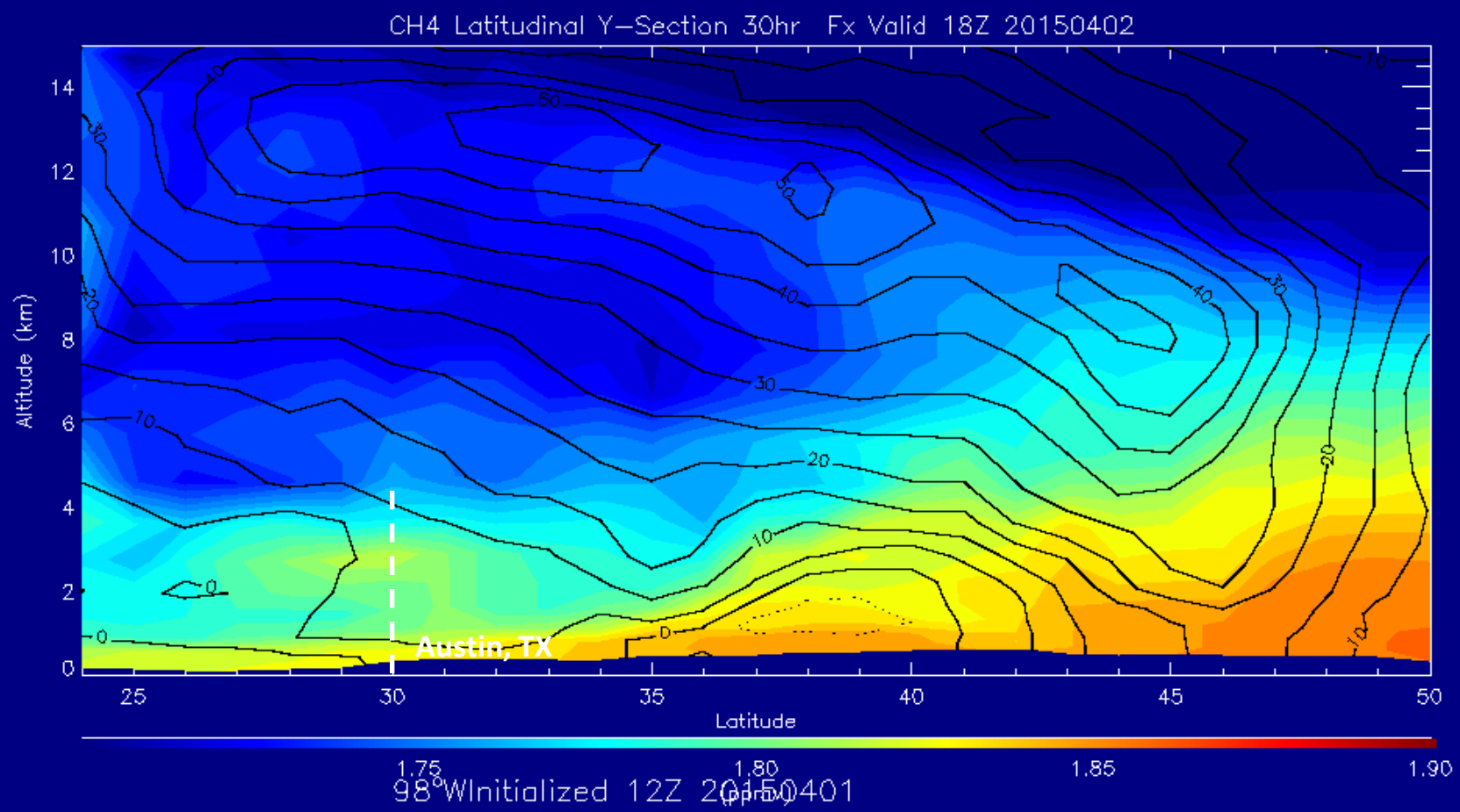
http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 30hr FX CO Cross-section at 98W (Austin, TX)



http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 30hr FX CH4 Cross-section at 98W (Austin, TX)

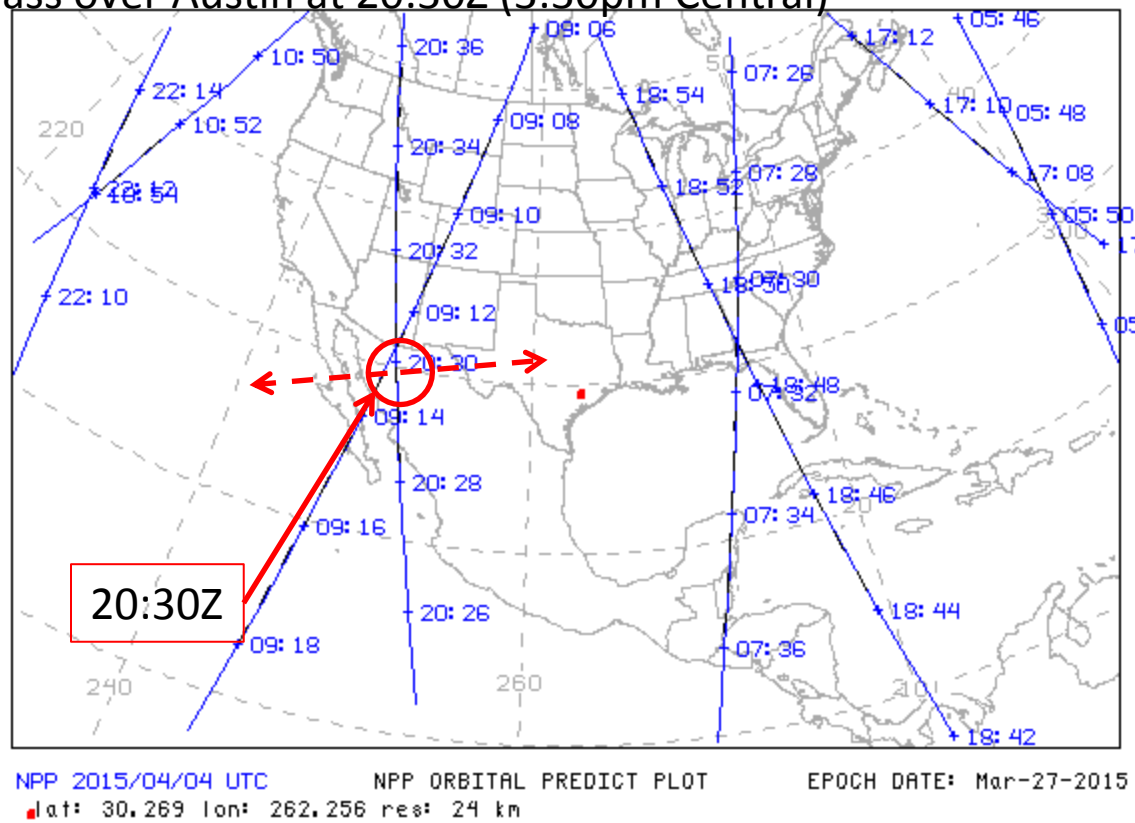



RAQMS surface CH4 constrained with 1990 mixing ratio – introduces ~0.1ppmv low bias

S-NPP (CrIS) overpass on 2015/04/02

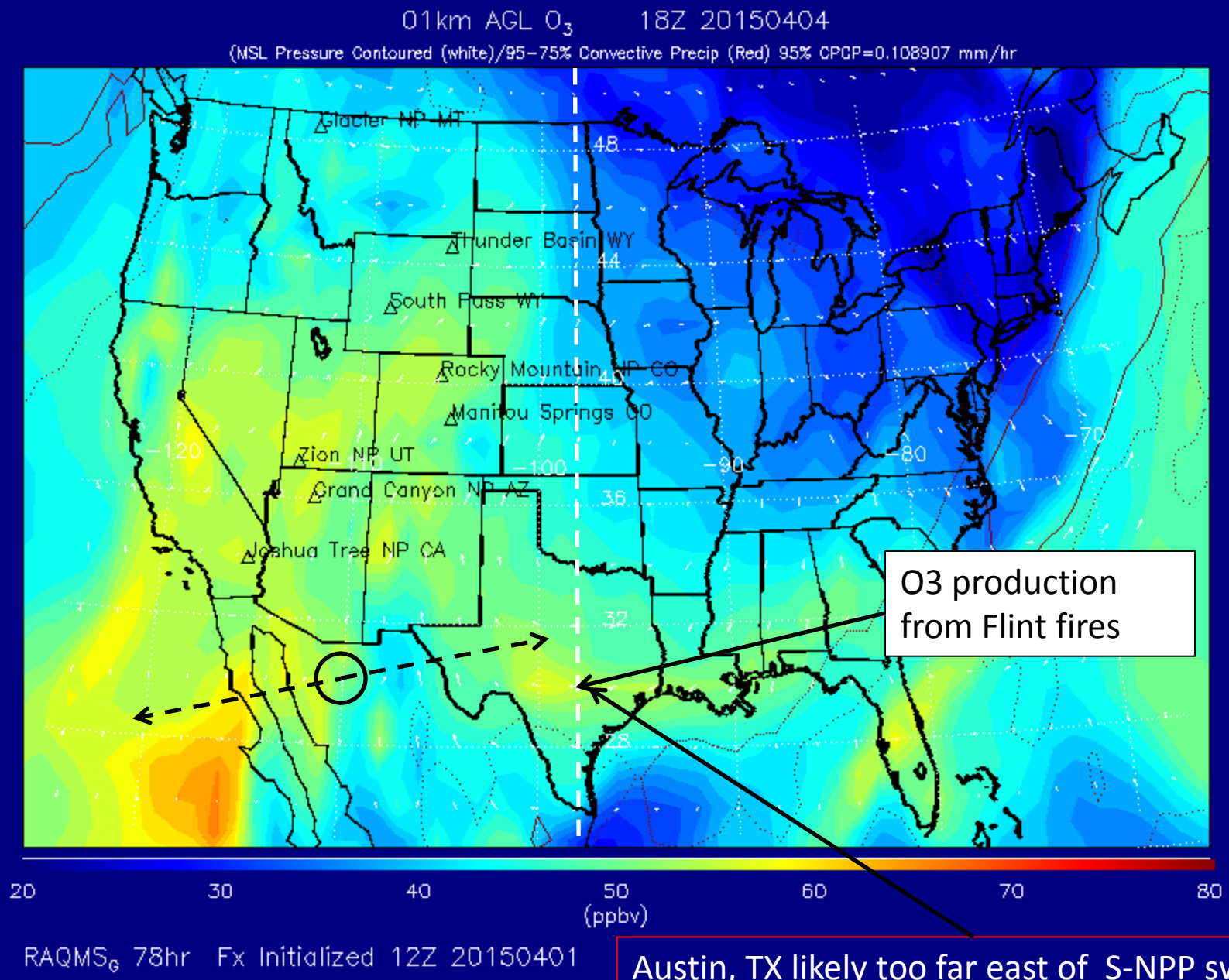
NUCAPS CO2, O3, CO, CH4 Validation Opportunity –***western swath***

S-NPP overpass over Austin at 20:30Z (3:30pm Central)




**Approximate swath width**

http://raqms.ssec.wisc.edu/forecast/view/20150401

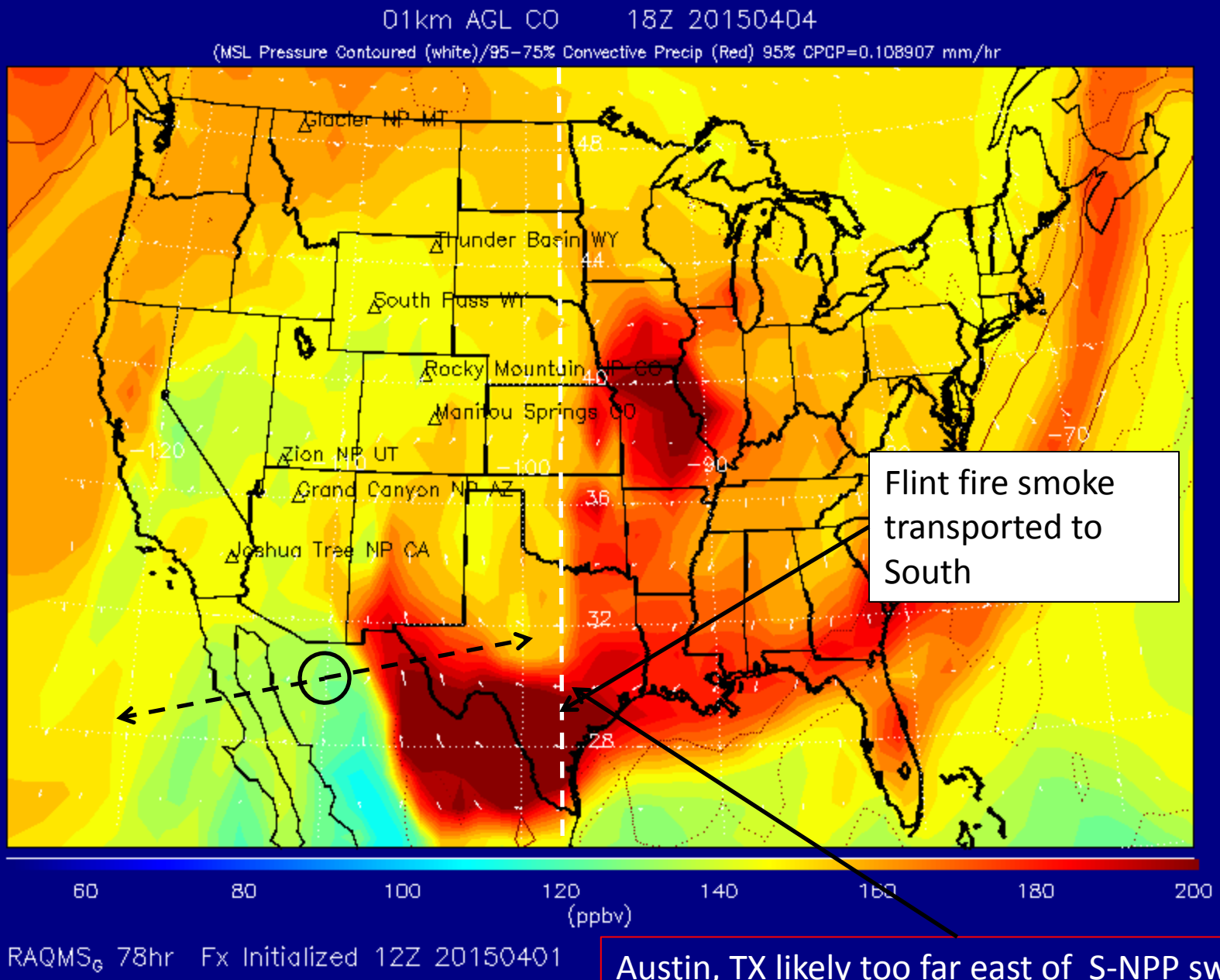



O3 production from Flint fires

Austin, TX likely too far east of S-NPP swath

**Approximate swath width**

http://raqms.ssec.wisc.edu/forecast/view/20150401

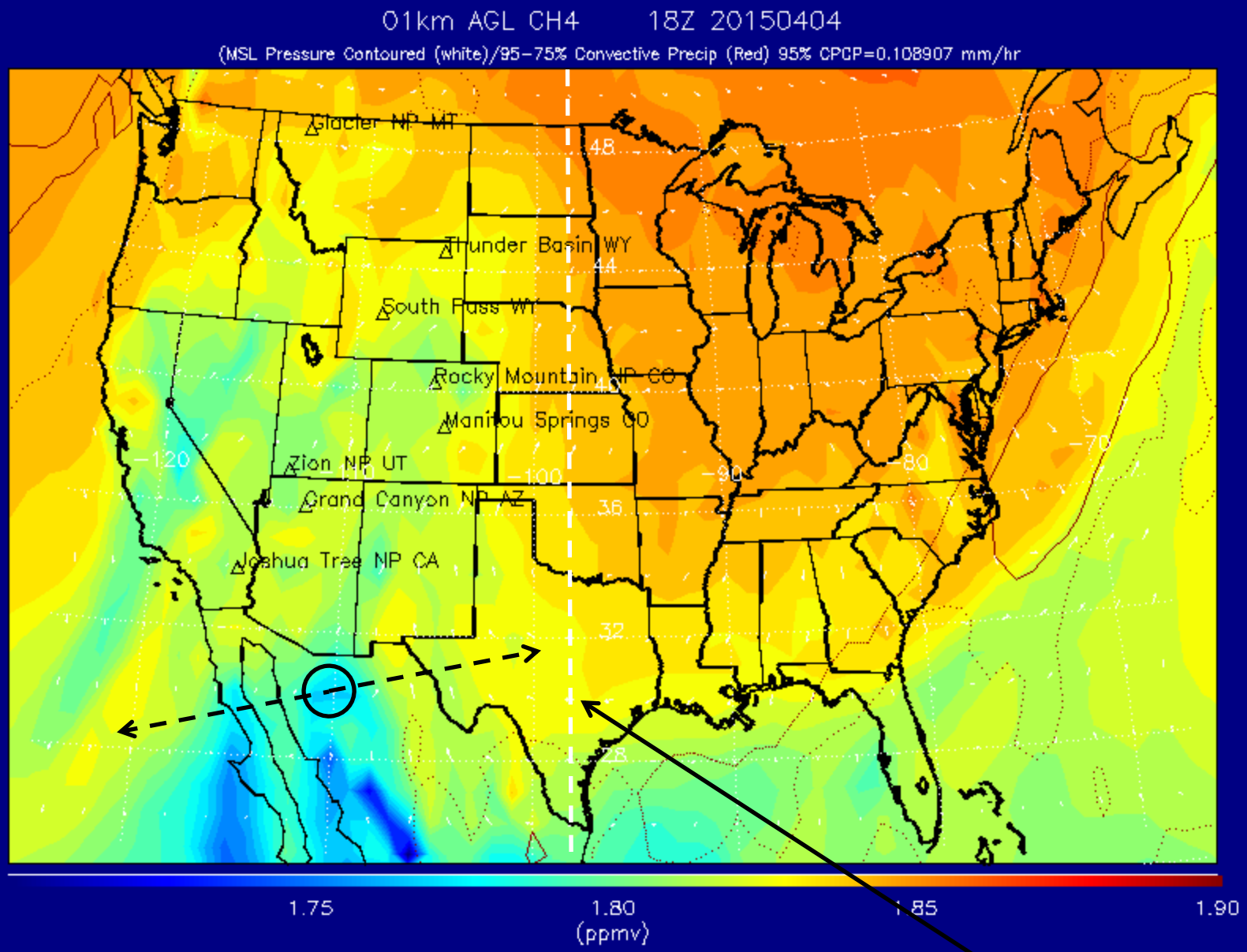



Flint fire smoke transported to South

Austin, TX likely too far east of S-NPP swath

**Approximate swath width**

http://raqms.ssec.wisc.edu/forecast/view/20150401

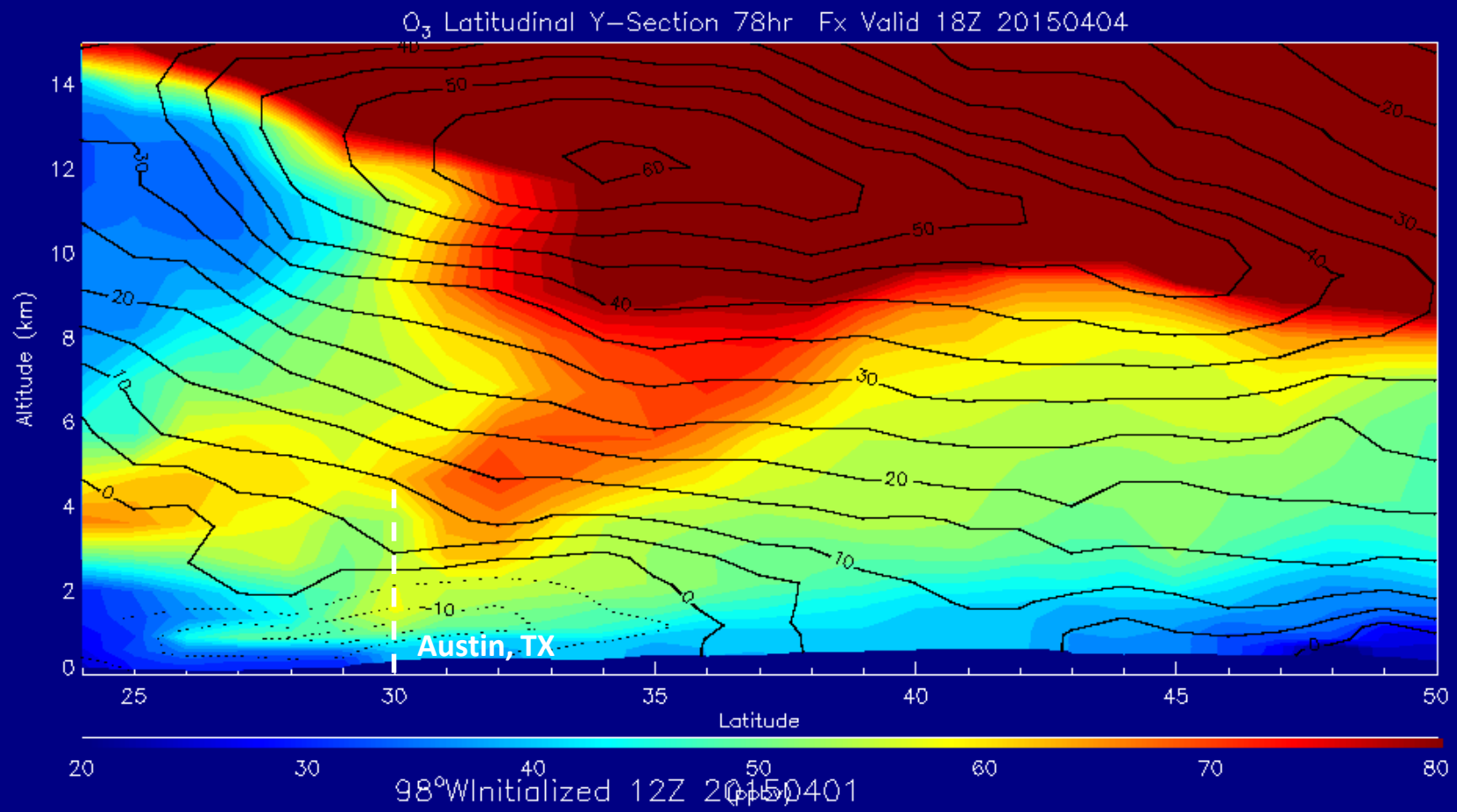



Austin, TX likely too far east of S-NPP swath

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

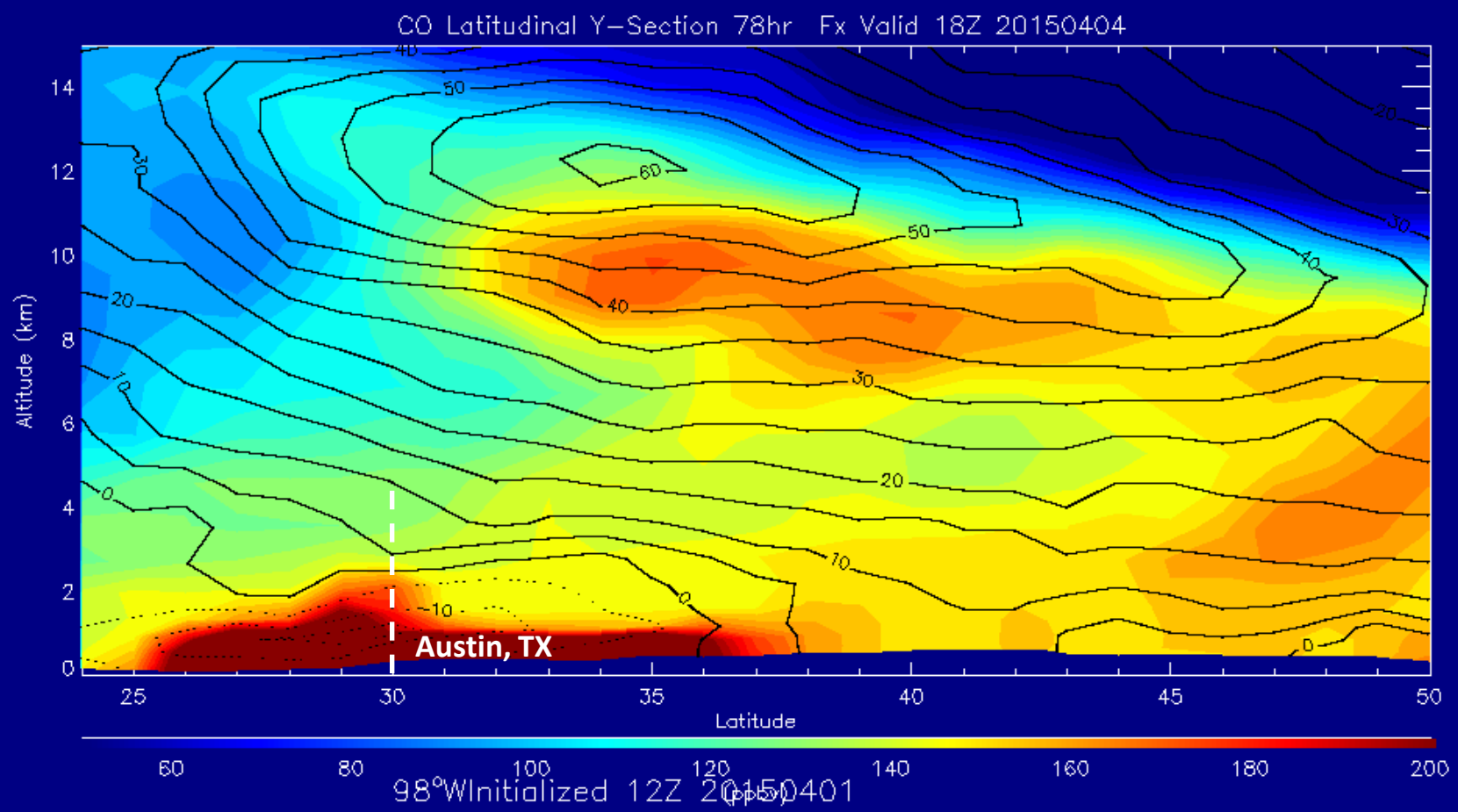
http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 78hr FX O3 Cross-section at 98W (Austin, TX)



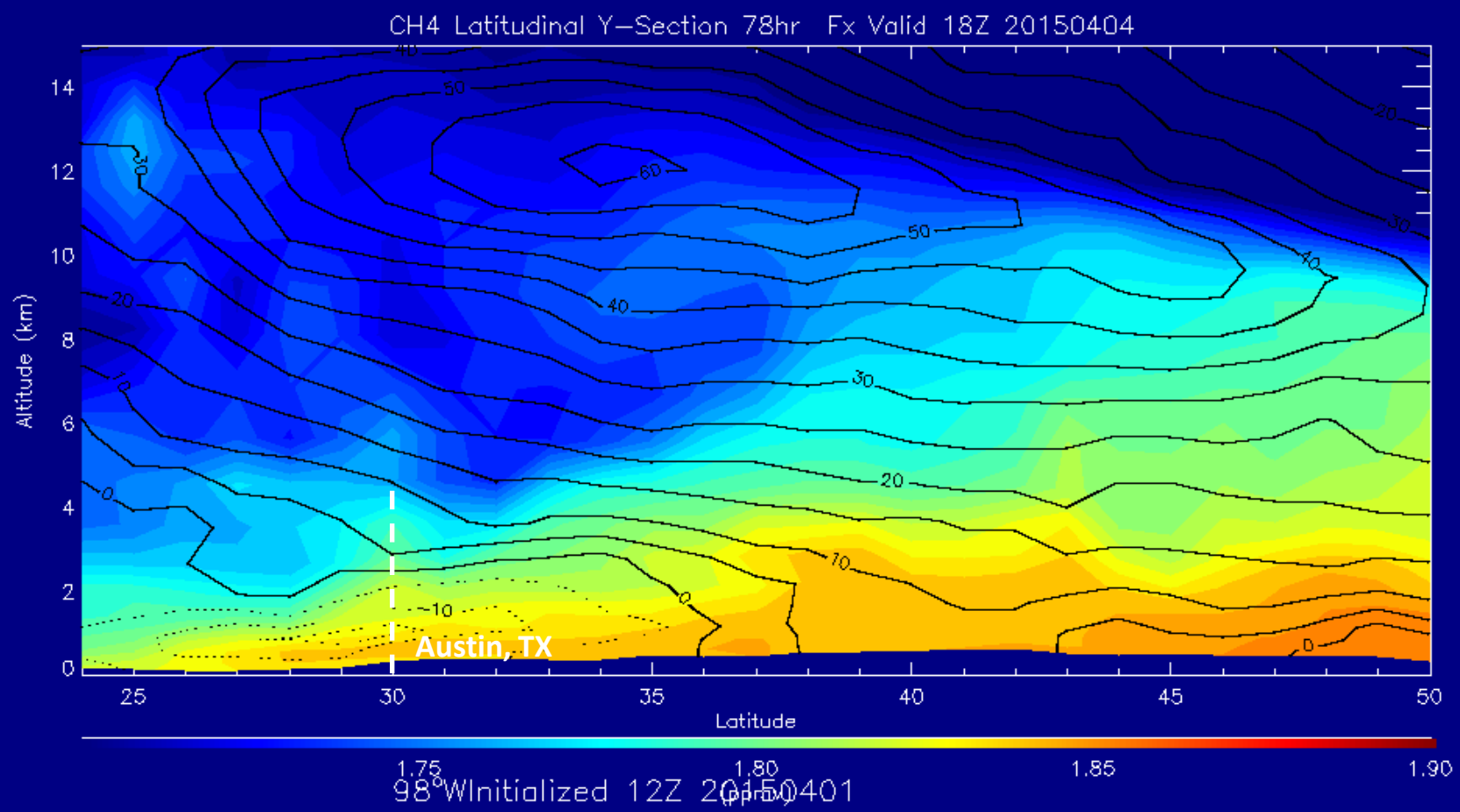
http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 78hr FX CO Cross-section at 98W (Austin, TX)



http://raqms.ssec.wisc.edu/forecast/view/20150401

# RAQMS 78hr FX CH4 Cross-section at 98W (Austin, TX)




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