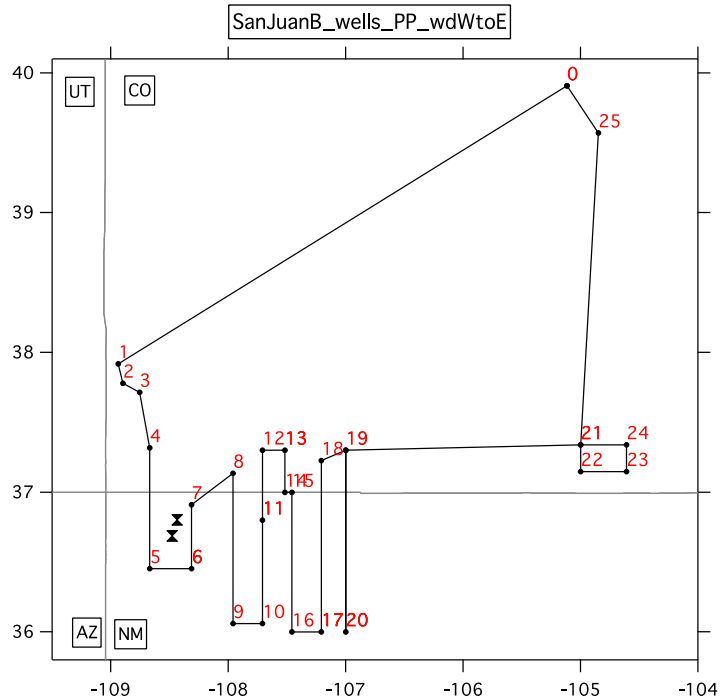
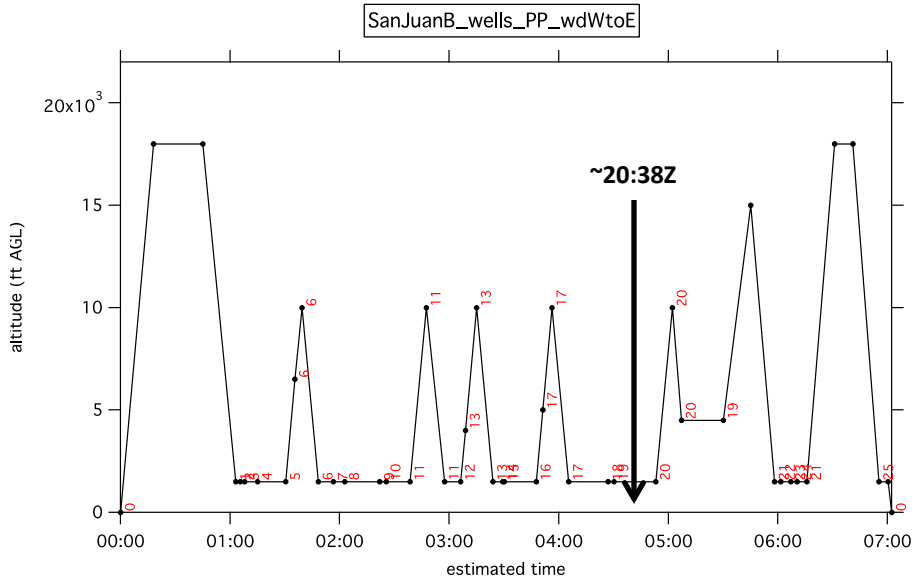
# RAQMS 20150324 SONGNEX
# 30hr Forecast for 18Z March 24, 2015 Science Flight
# 54hr Forecast for 18Z March 25, 2015 Potential Science Flight



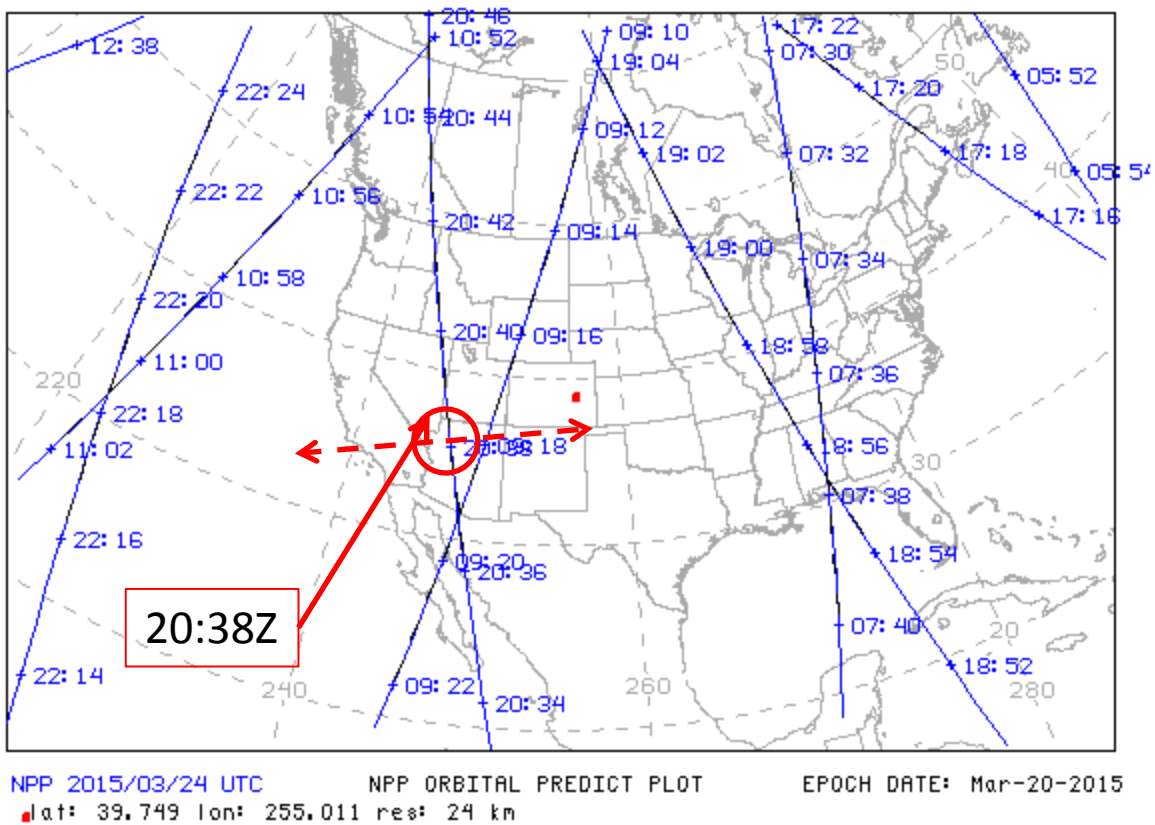

San Juan basin



S-NPP (CrIS) overpass on 2015/03/24

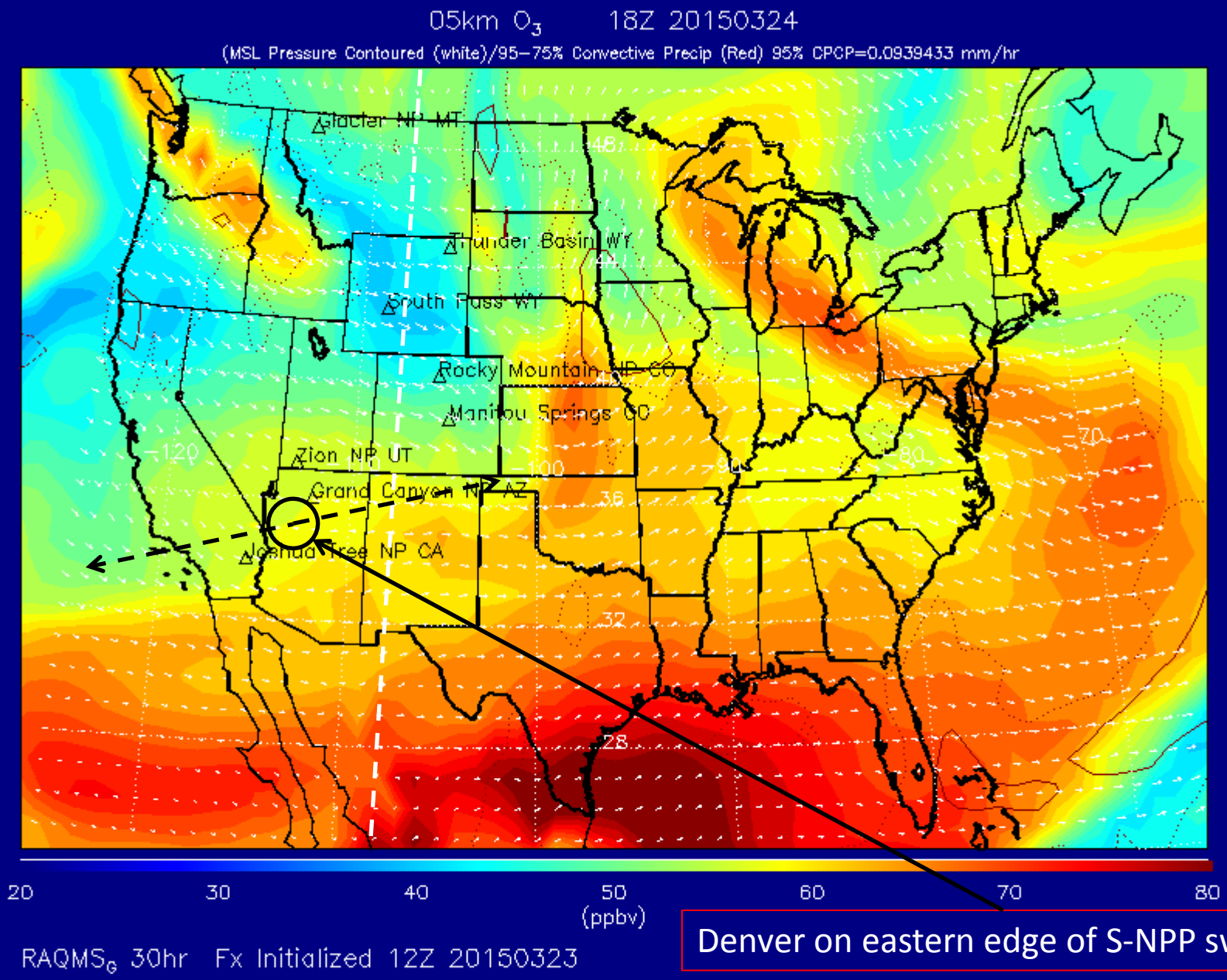
NUCAPS CO2, O3, CO, CH4 Validation Opportunity – ***<u>eastern edge of swath</u>***

S-NPP overpass is west of Denver (red dot) at 20:38Z (2:38pm Mountain)




**Approximate swath width**

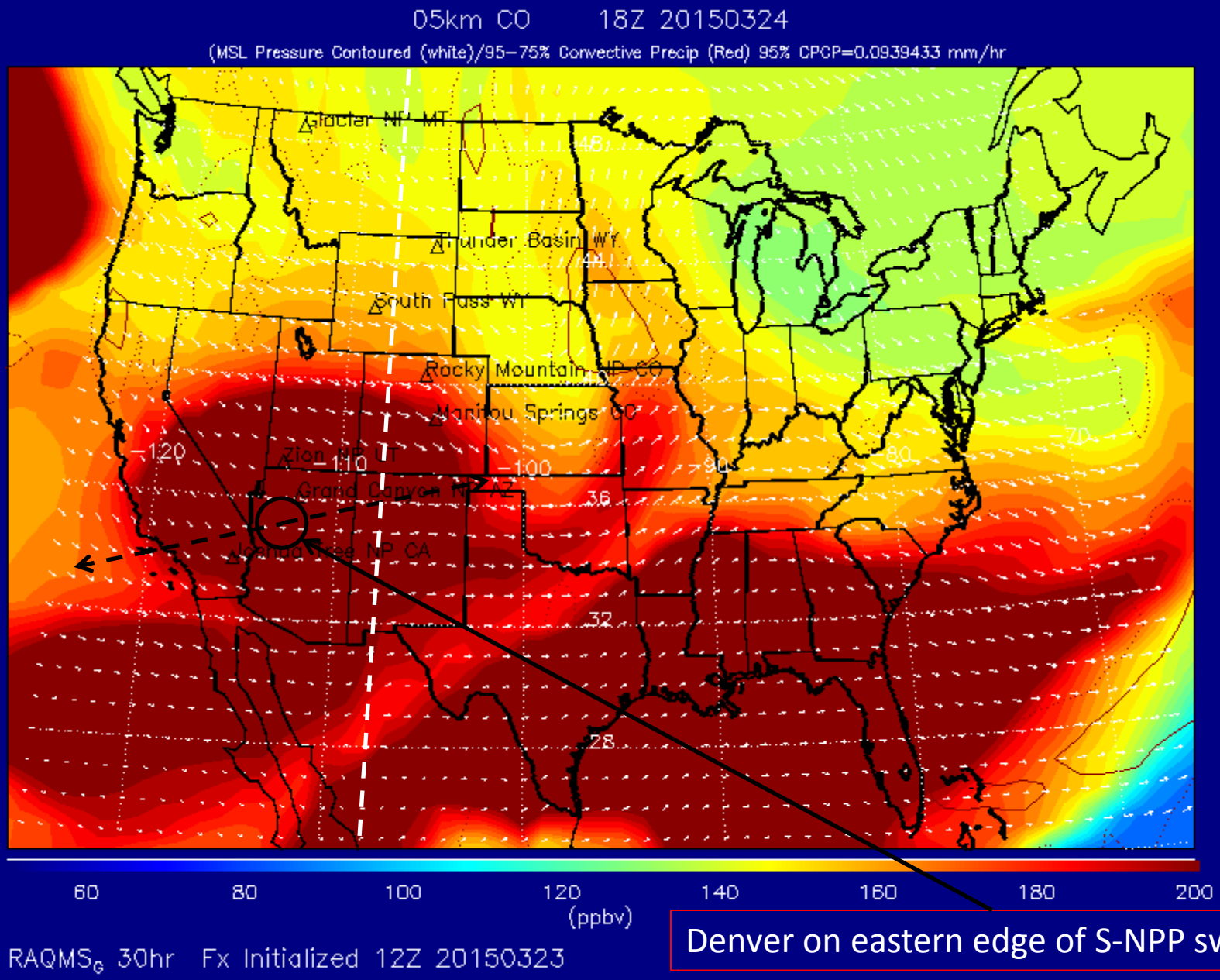
http://raqms.ssec.wisc.edu/forecast/view/20150323




Denver on eastern edge of S-NPP swath

**Approximate swath width**

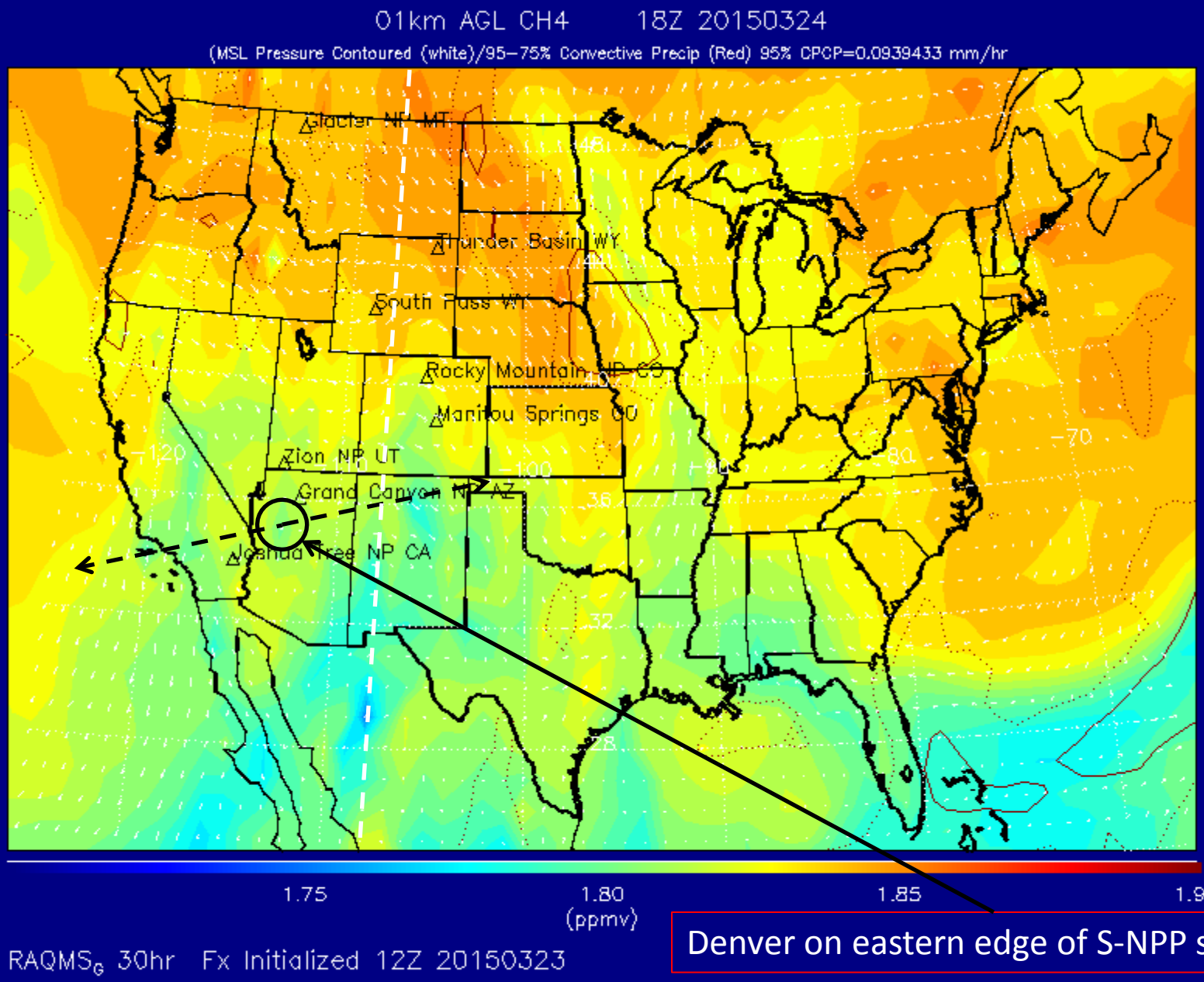
http://raqms.ssec.wisc.edu/forecast/view/20150323




Denver on eastern edge of S-NPP swath

Approximate swath width

http://raqms.ssec.wisc.edu/forecast/view/20150323

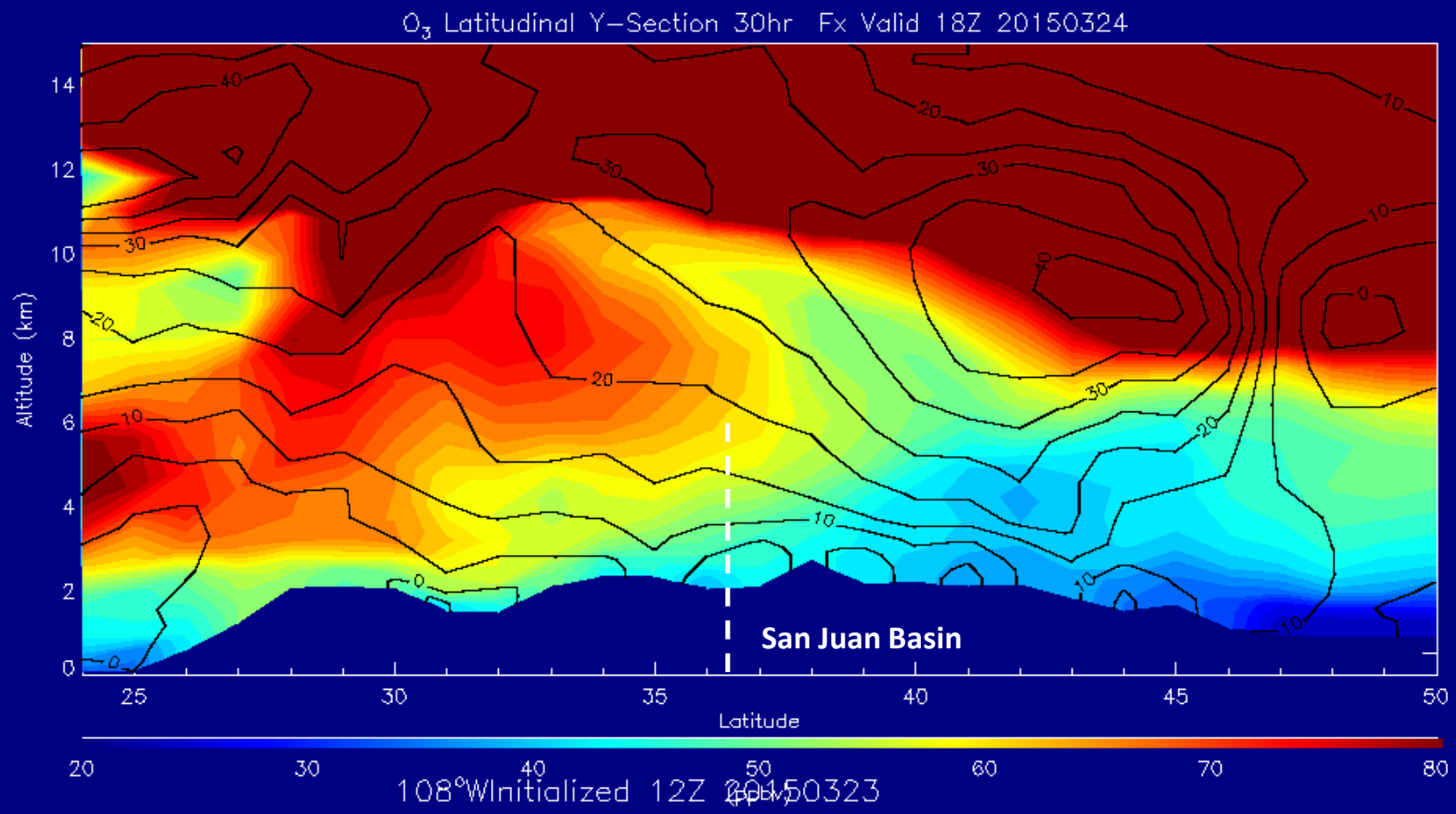



Denver on eastern edge of S-NPP swath

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

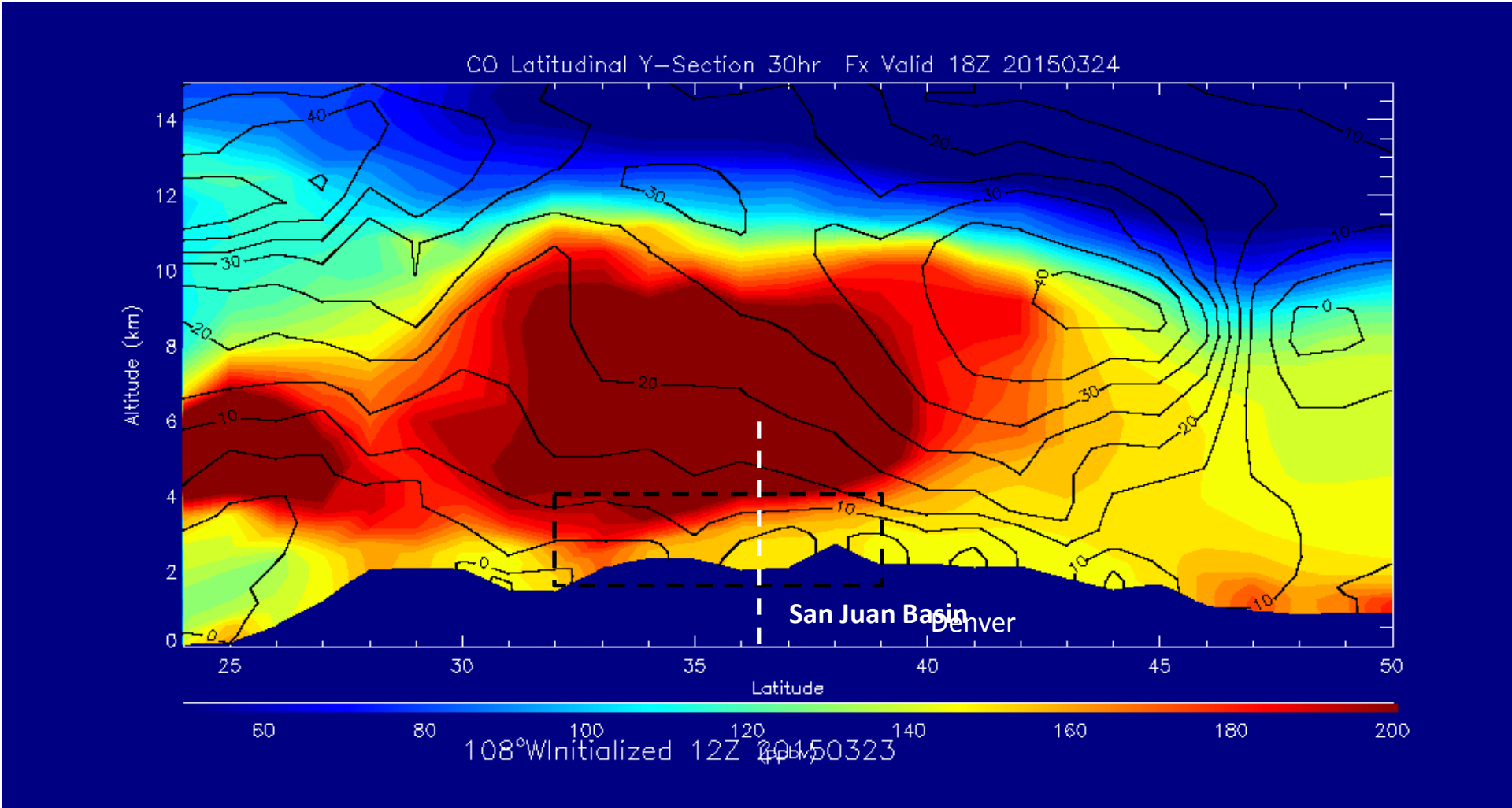
http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 30hr FX O3 Cross-section at 108W
# (San Juan Basin)



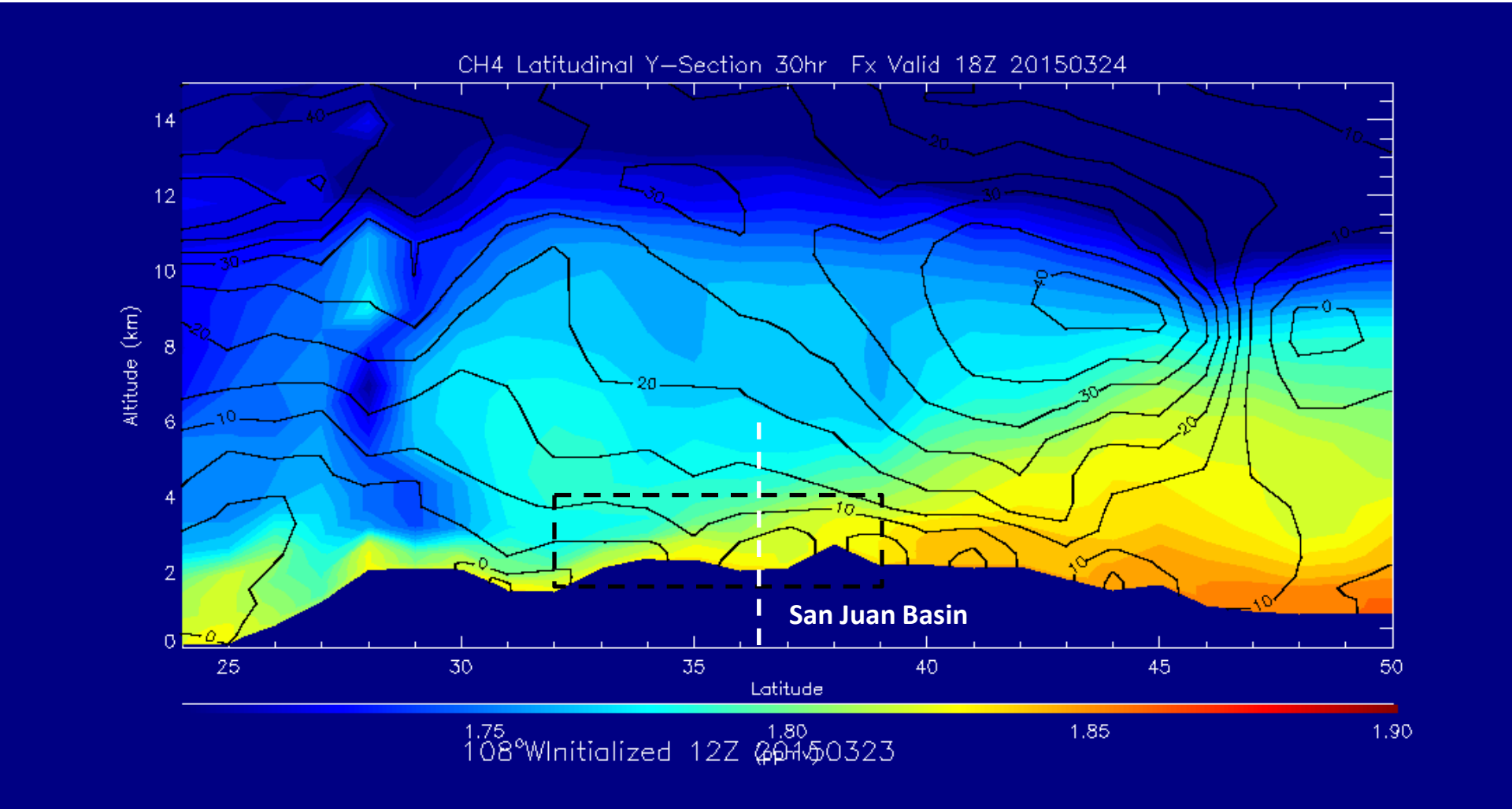
http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 30hr FX CO Cross-section at 108W
# (San Juan Basin)



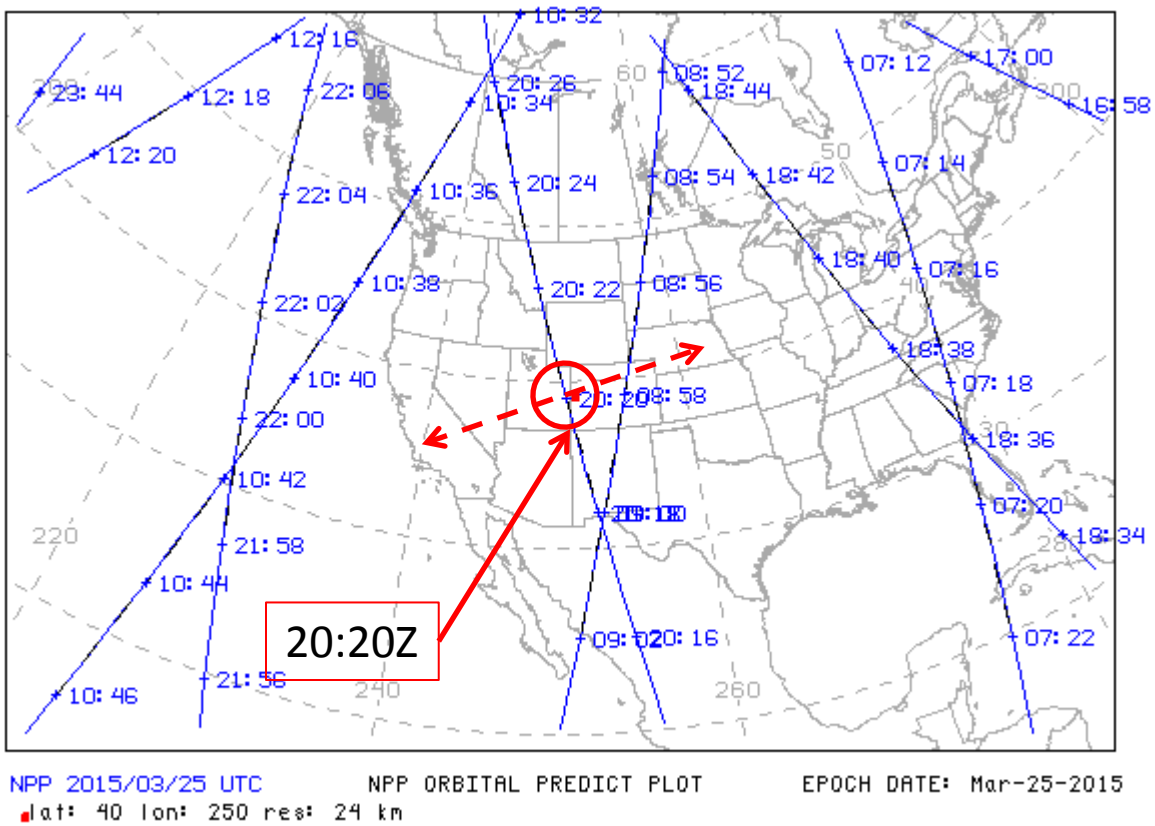
http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 30hr FX CH4 Cross-section at 108W
# (San Juan Basin)



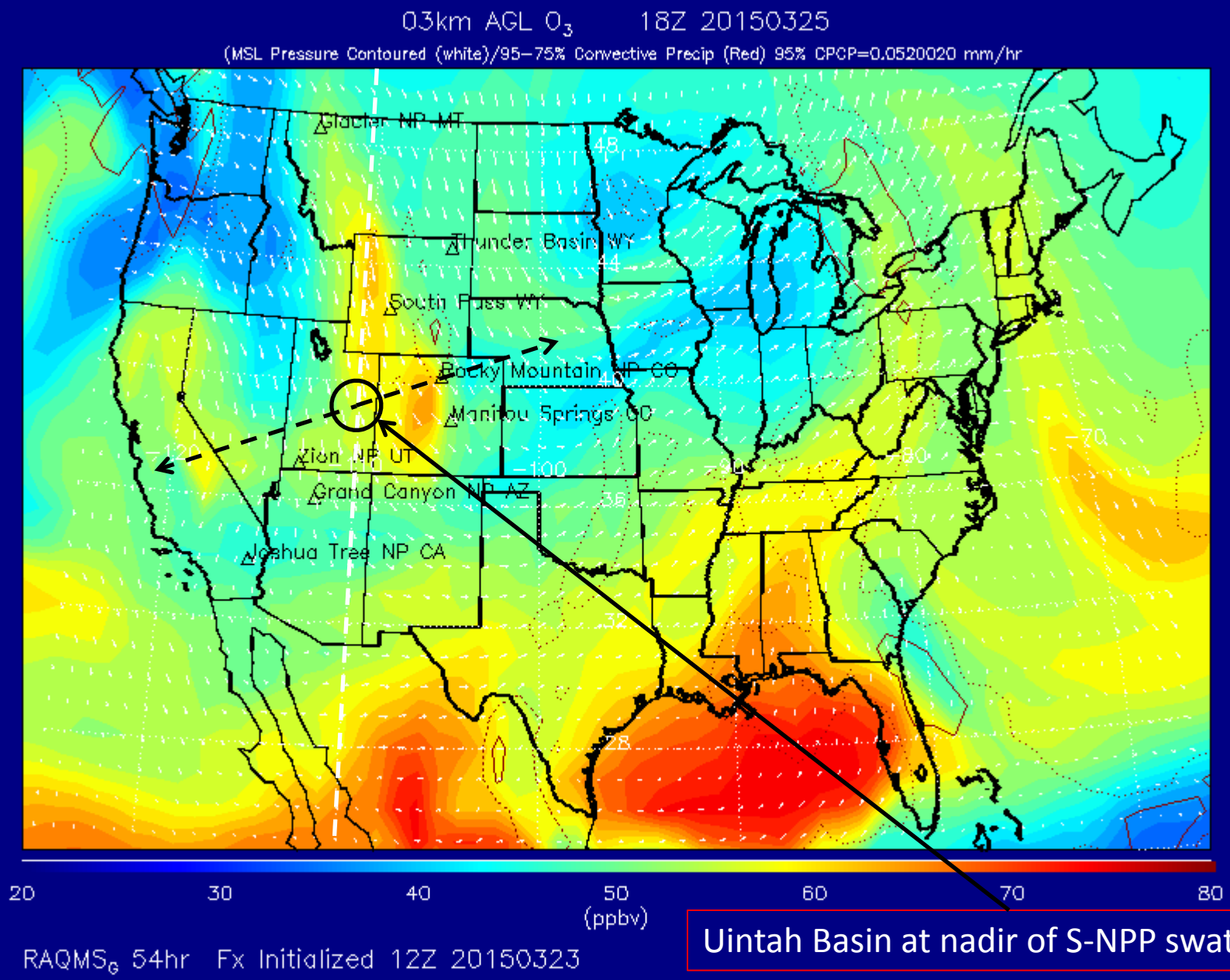
S-NPP (CrIS) overpass on 2015/03/25
NUCAPS CO2, O3, CO, CH4 Validation Opportunity – ***nadir***

S-NPP overpass is over Uintah Basin at 20:20Z (2:20pm Mountain)




**Approximate swath width**

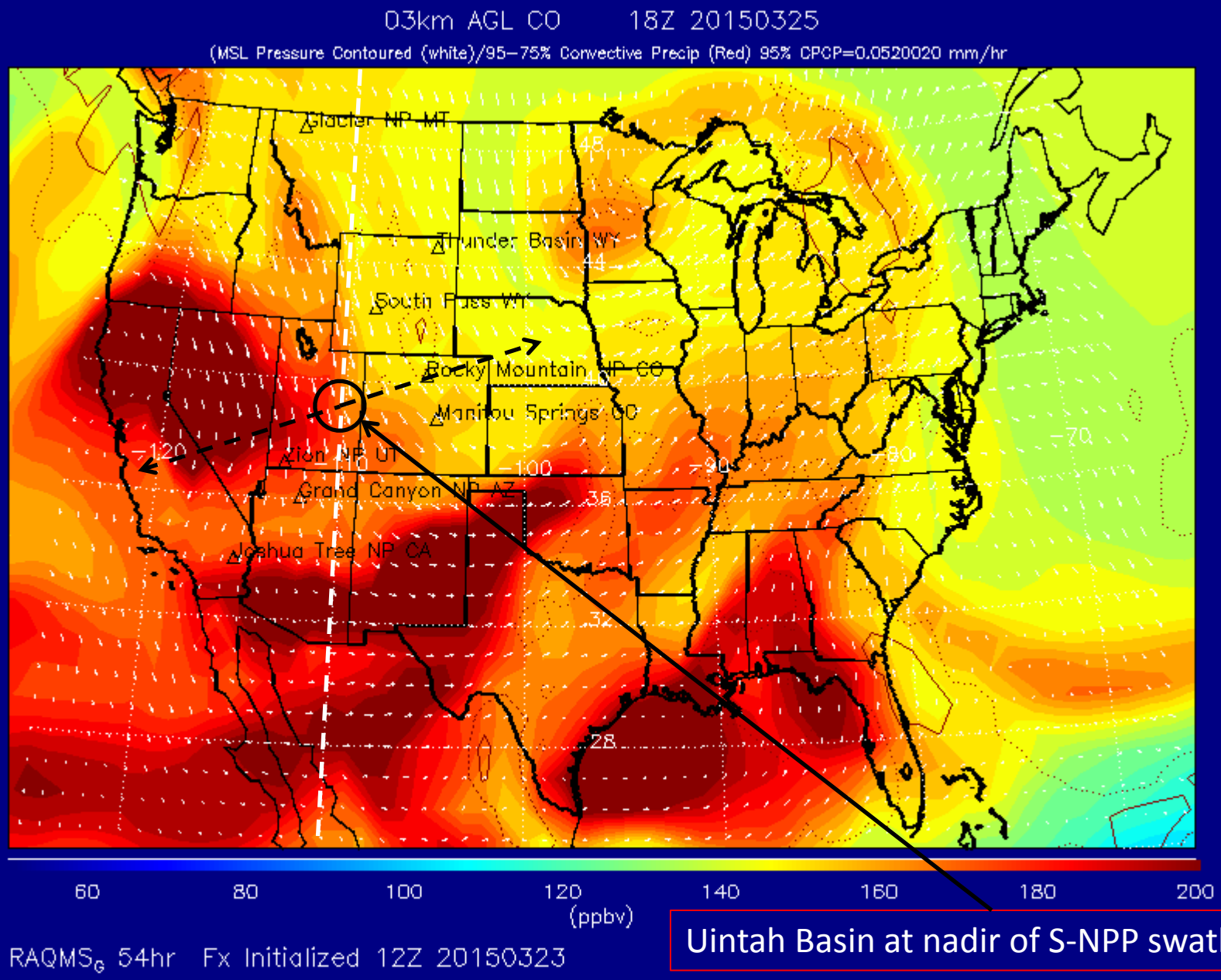
http://raqms.ssec.wisc.edu/forecast/view/20150323




Uintah Basin at nadir of S-NPP swath

Approximate swath width

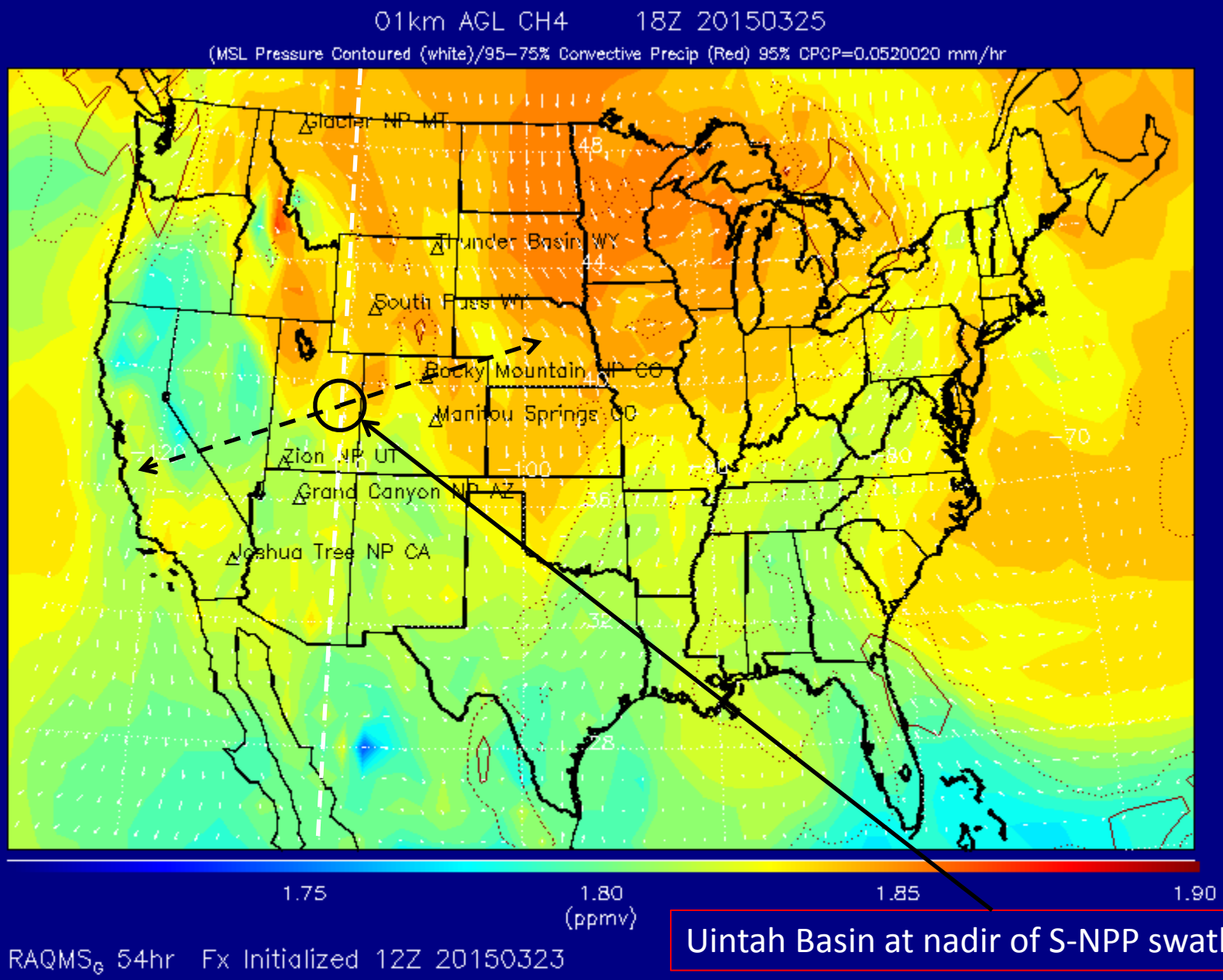
http://raqms.ssec.wisc.edu/forecast/view/20150323




Uintah Basin at nadir of S-NPP swath

Approximate swath width

http://raqms.ssec.wisc.edu/forecast/view/20150323

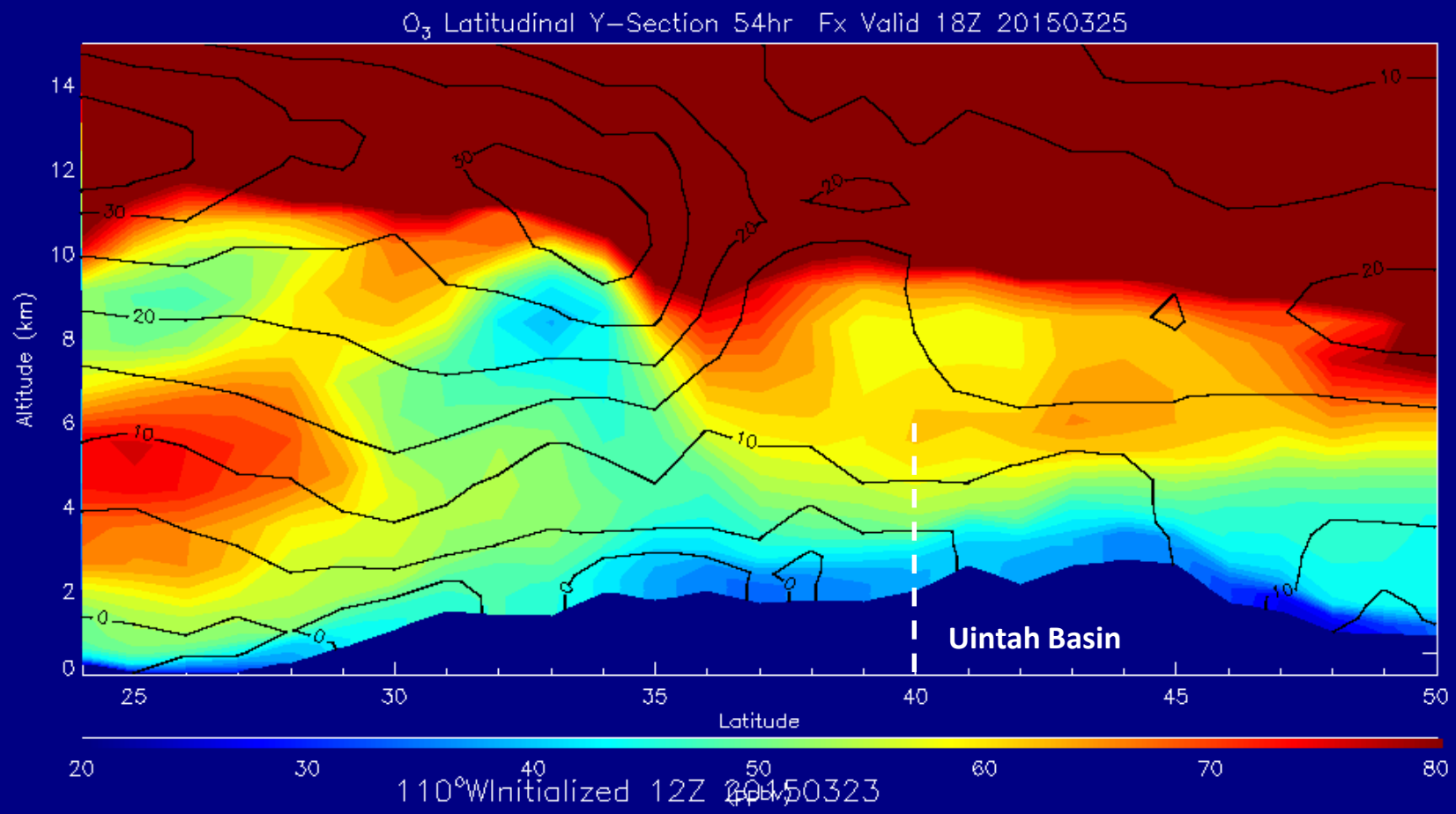



Uintah Basin at nadir of S-NPP swath

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

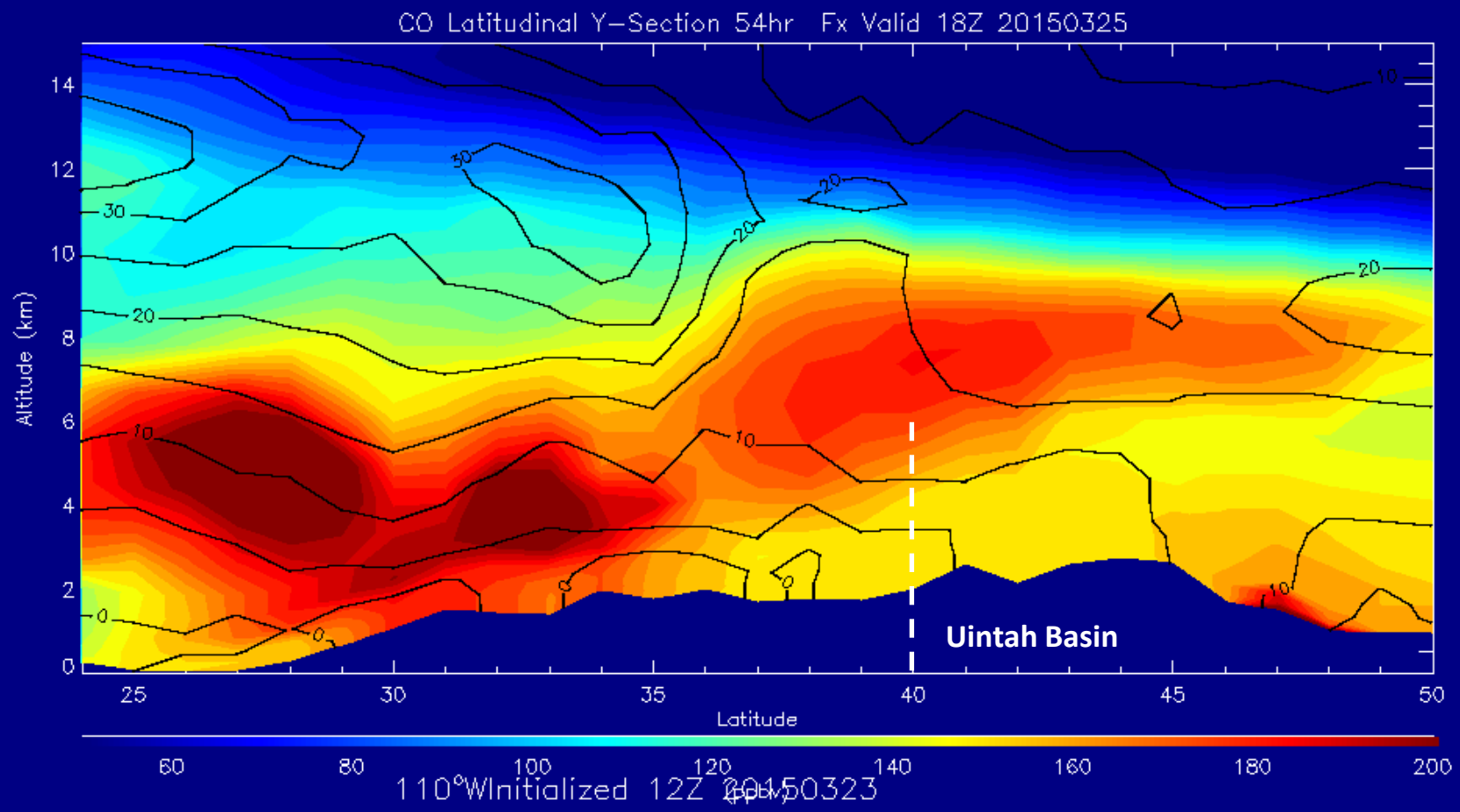
http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 54hr FX O3 Cross-section at 110W (Uintah Basin)



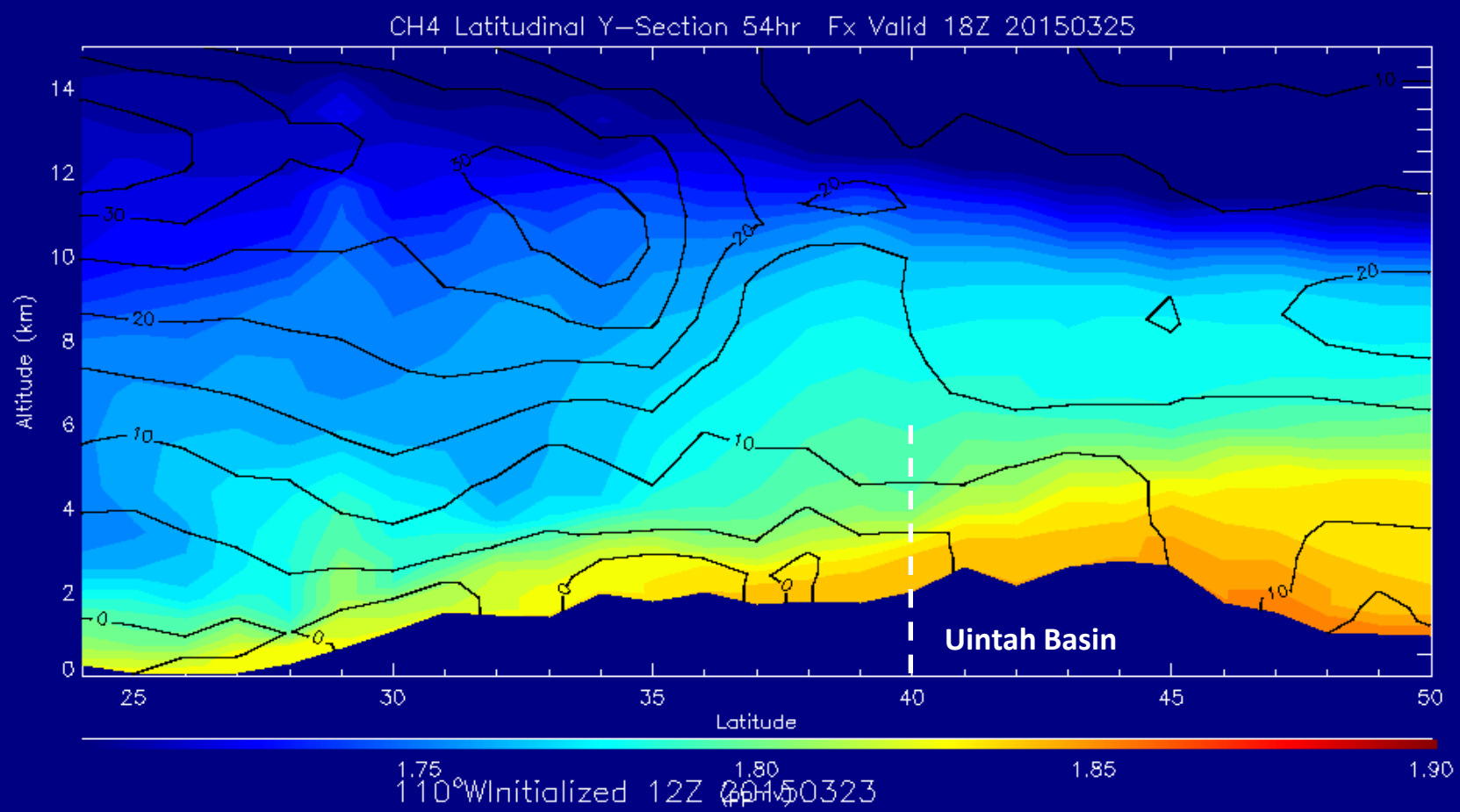
http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 54hr FX CO Cross-section at 110W (Uintah Basin)



http://raqms.ssec.wisc.edu/forecast/view/20150323

# RAQMS 54hr FX CH4 Cross-section at 110W (Uintah Basin)




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