IMPEX C130 flight 5 (Seattle local 4)

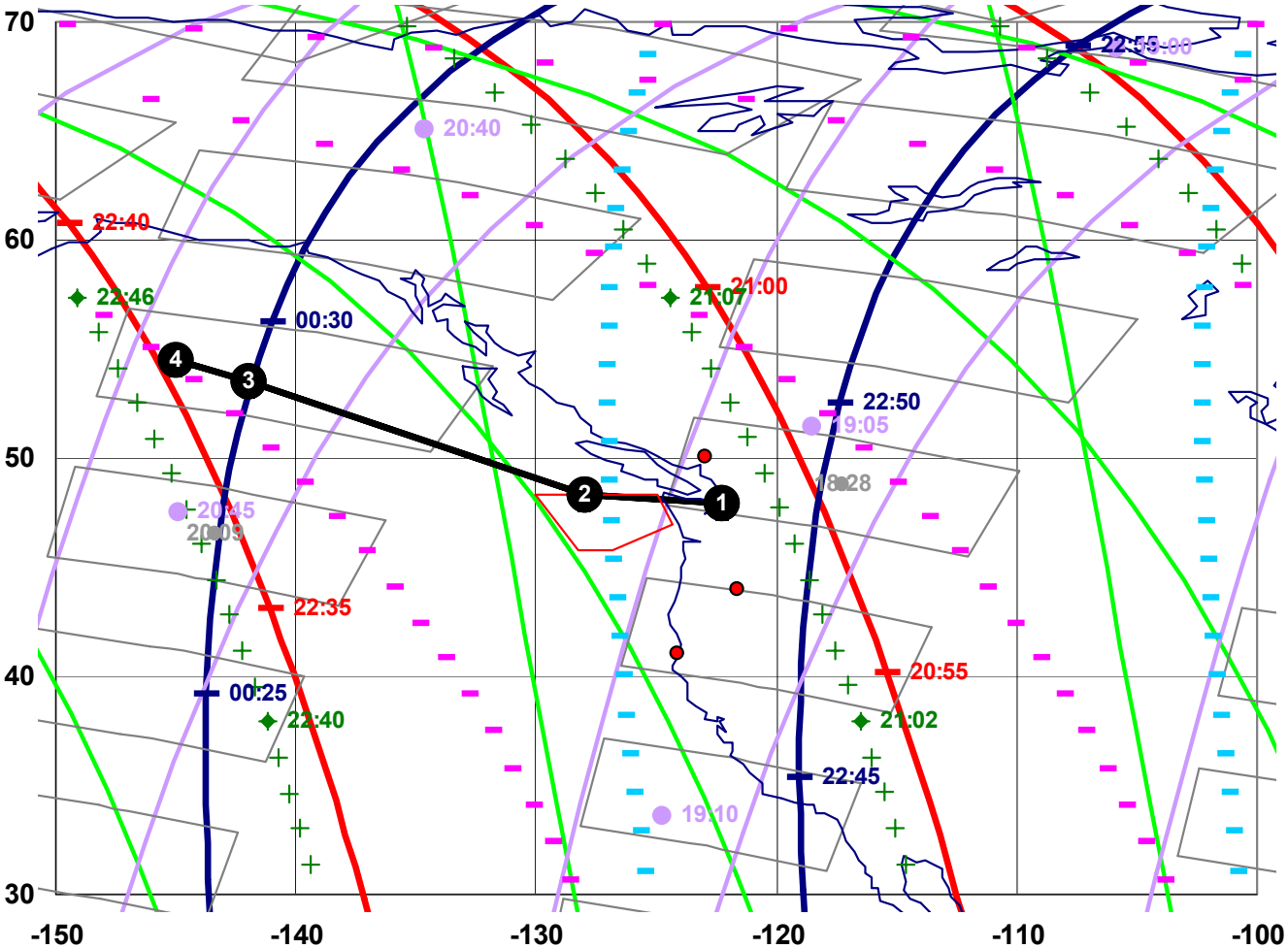
28 April 2006.

doors open / power on:	0700 PDT
takeoff:	1000 PDT (1700 GMT)
estimated landing:	1800 PDT (0100 GMT)

- At least three spirals are planned.

objectives:

- sample the northern part of Asian pollution plume
- sample a pool of older pollution north of the Asian pollution
- learn the models' predictive capabilities for Asian plumes
- Spiral under an OMI satellite overpass



Tentative C-130 flight plan for Friday, 28 April
Takeoff: 1000 local

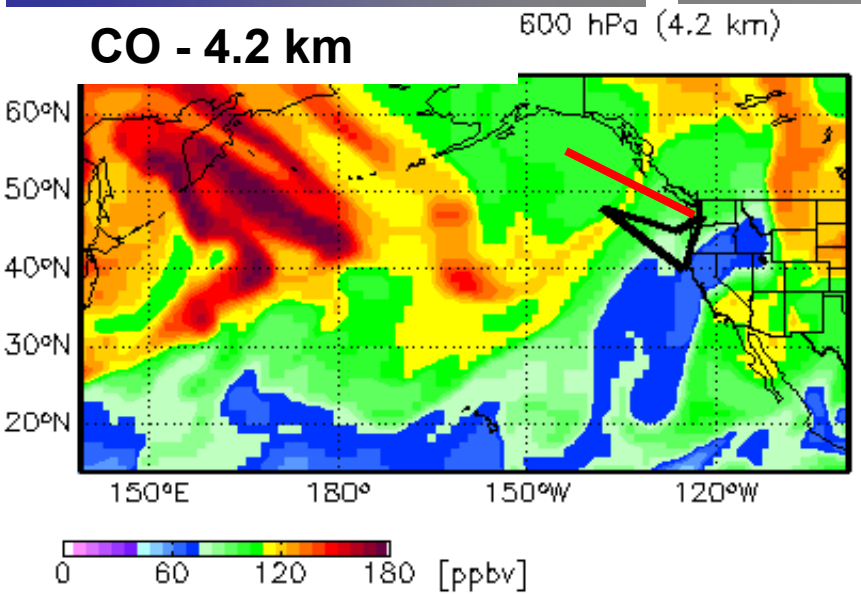
- MLS
- MLS timing
- HIRDLS
- HIRDLS timing
- TES
- TES timing
- TES-Special
- TES-Special timing
- TES-Limb
- OMI-East Edge
- OMI-West Edge
- AIRS swath
- MOPITT timing
- MOPITT swath
- SCIAMACHY
- SCIA timing
- Ground Sites
- C-130 Flight Path
- Restricted

	Latitude (N)		Longitude (W)						
Way Point	deg	min	deg	min	Cum. Time	Leg Time	Local Time	UTC	Note
1	47	54	122	17	0:00	0:00	10:00	17:00	
2	48	20	128	0	0:56	0:56	10:56	17:56	Dolff
3	53	30	142	0	3:28	2:31	13:28	20:28	
4	54	30	145	0	3:58	0:30	13:58	20:58	
5	53	30	142	0	4:28	0:30	14:28	21:28	
6	48	20	128	0	6:59	2:31	16:59	23:59	Dolff
7	47	54	122	17	7:56	0:56	17:56	0:56	

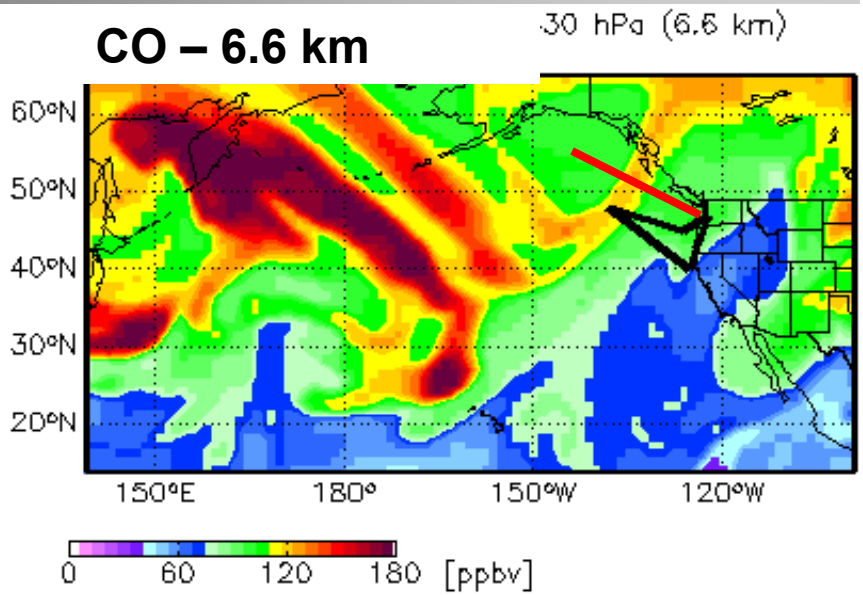
4/27 00Z forecast

Friday, 4/28, 18Z

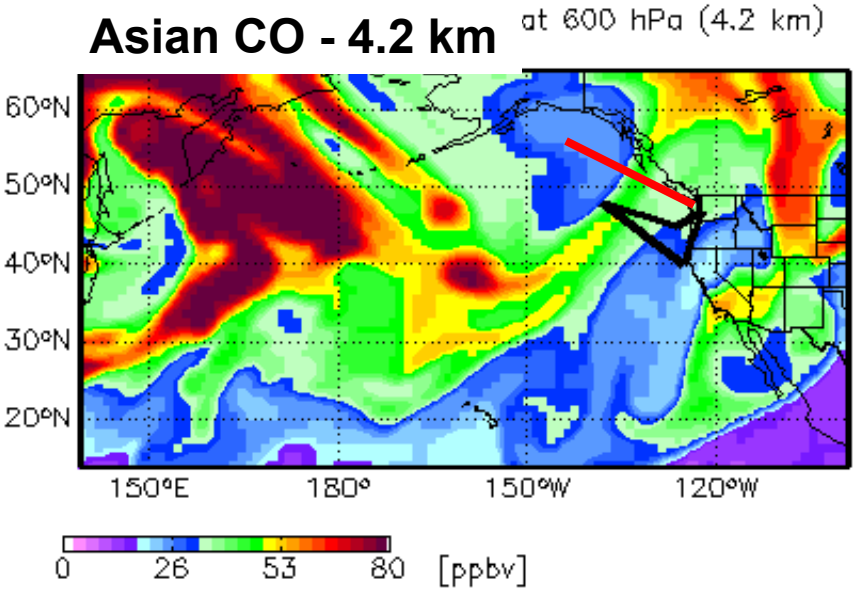
CO - 4.2 km



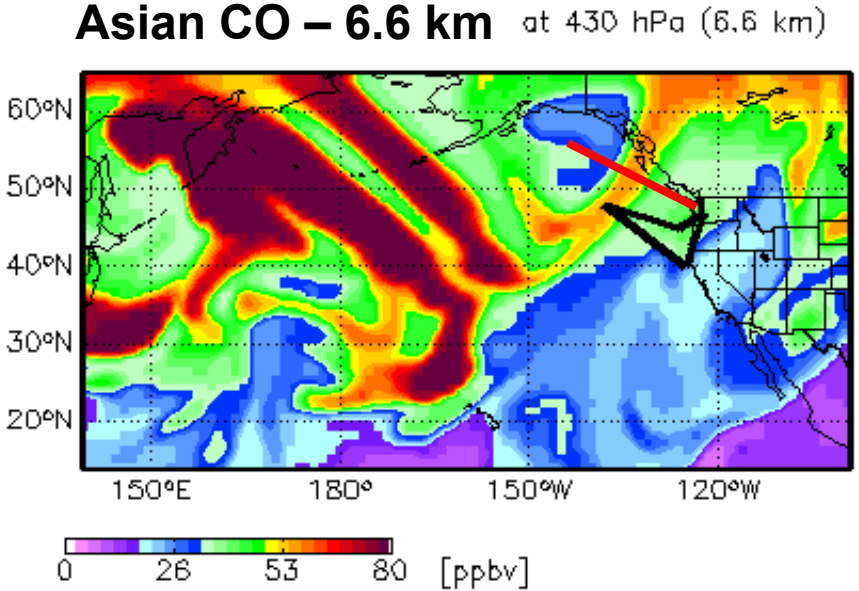
CO – 6.6 km



Asian CO - 4.2 km

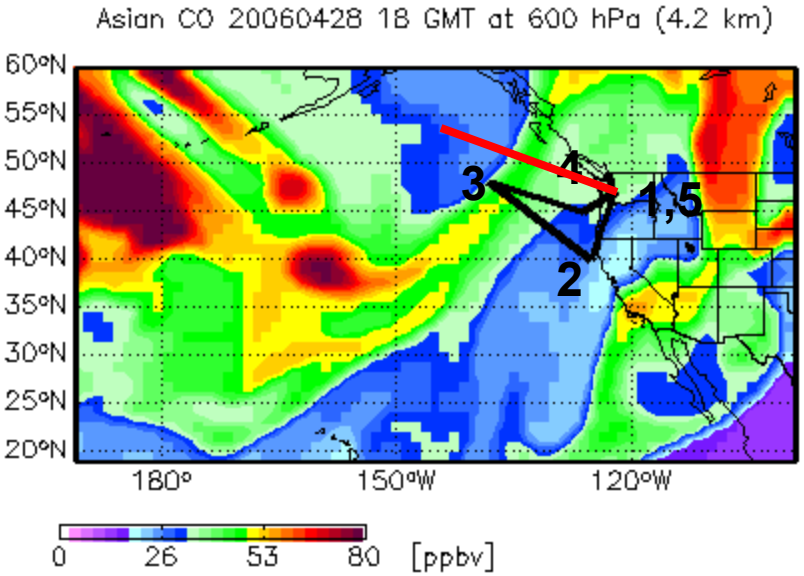


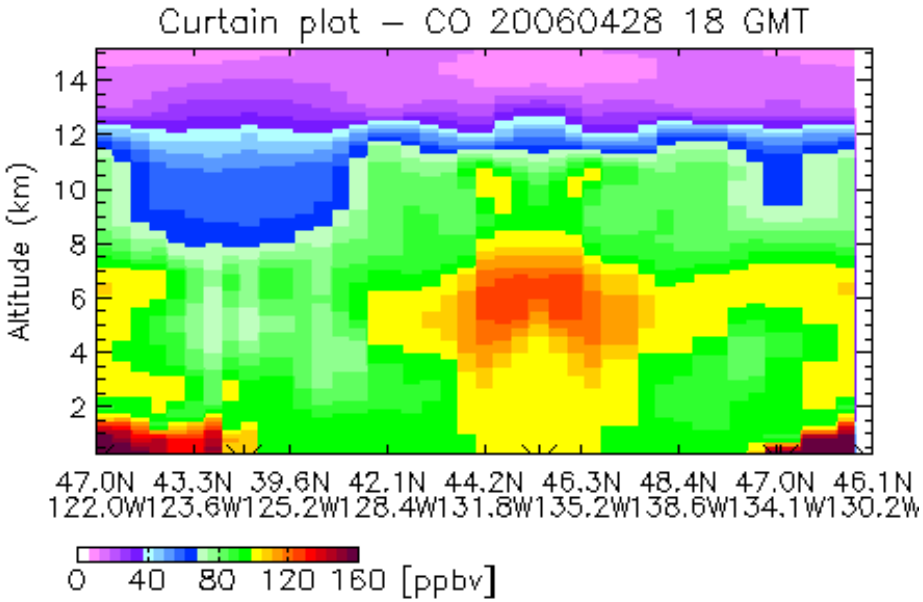
Asian CO – 6.6 km

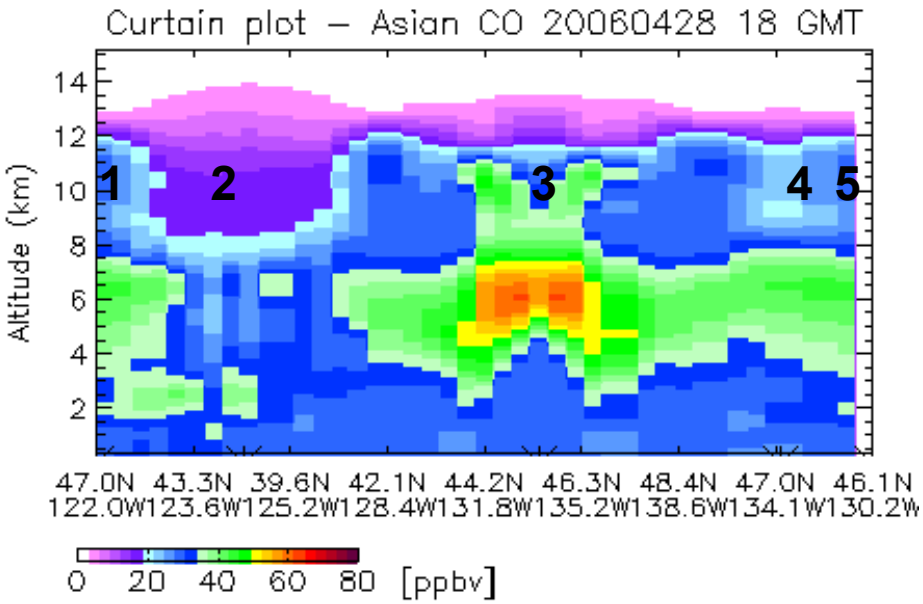


4/27 00Z forecast

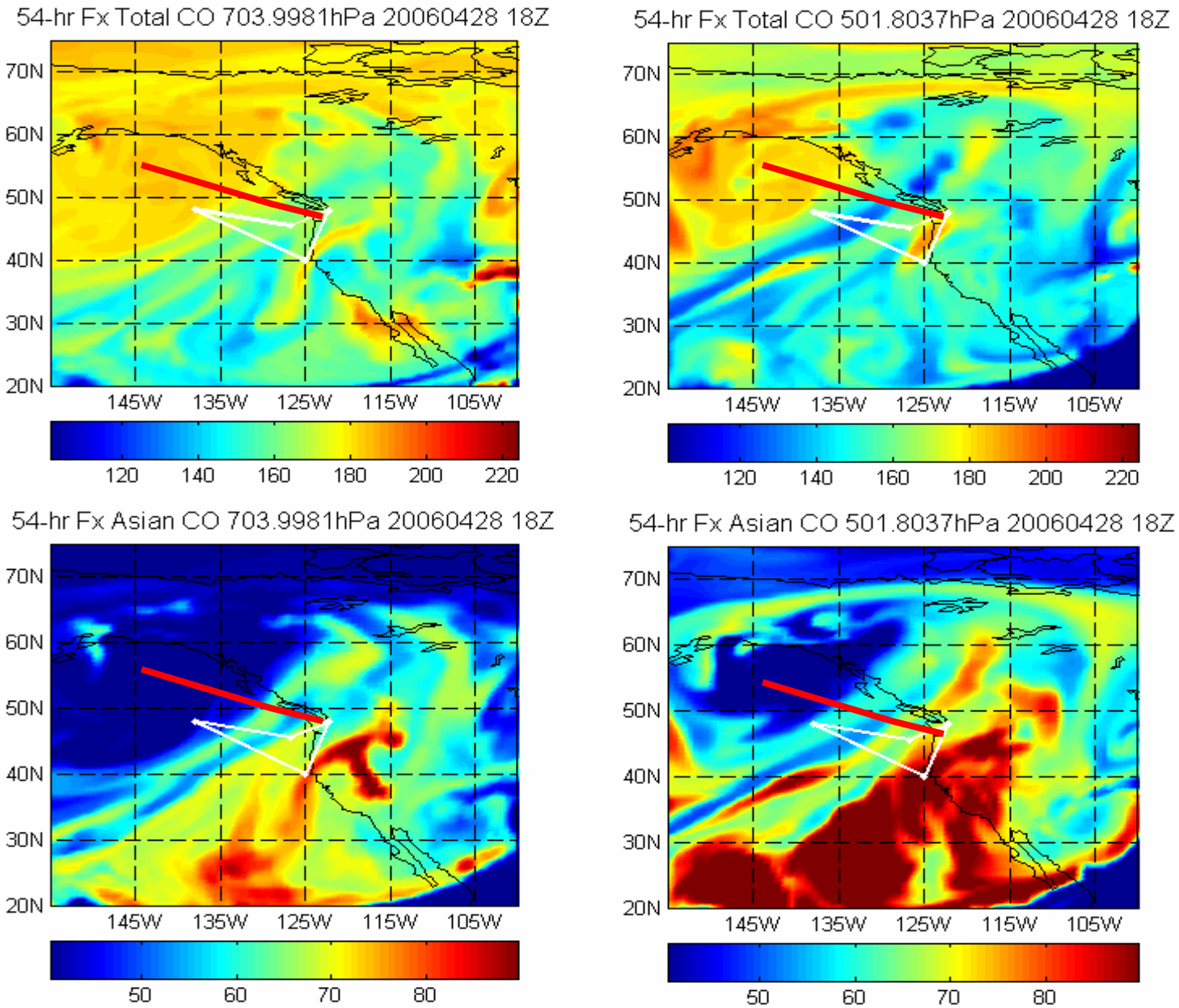
Friday, 4/28, 18Z



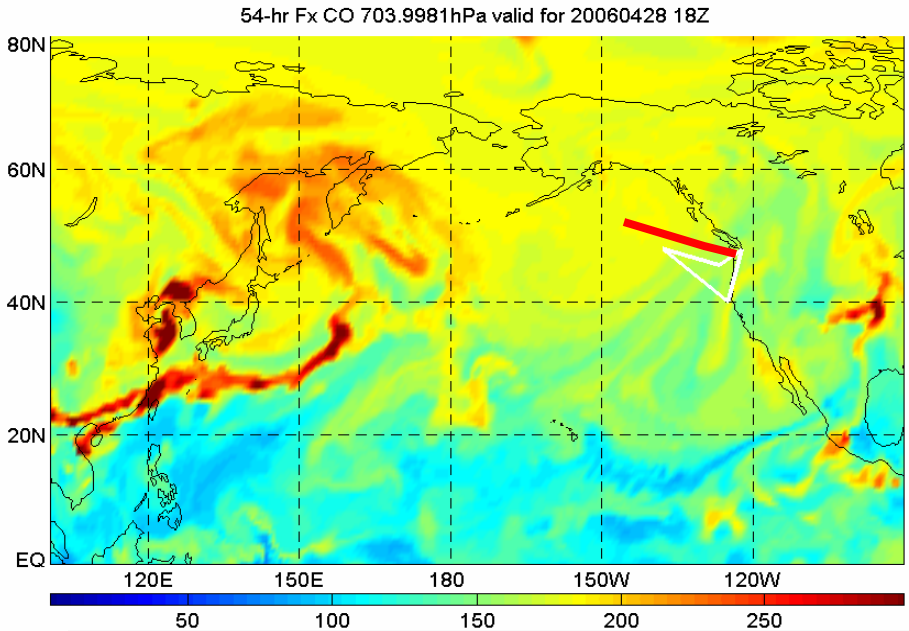


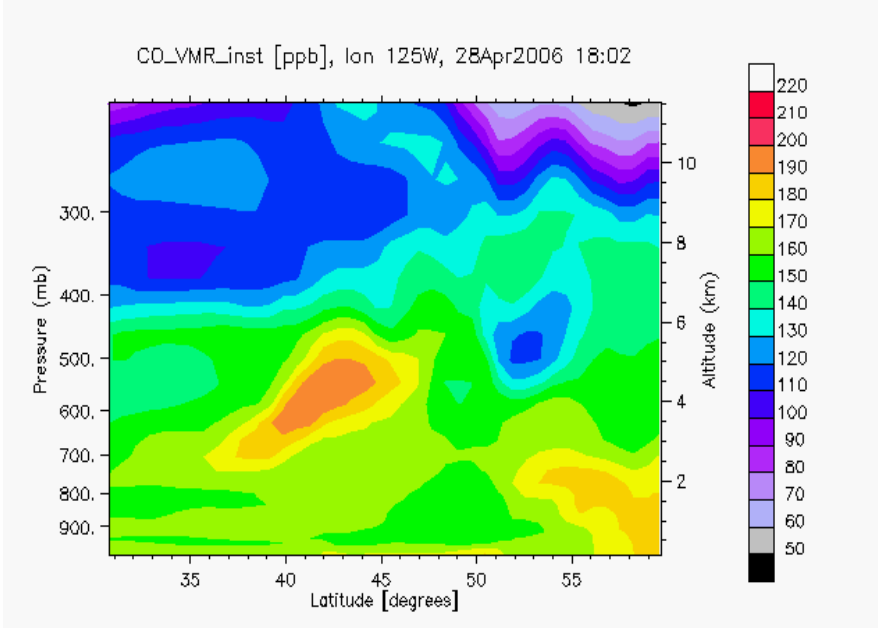


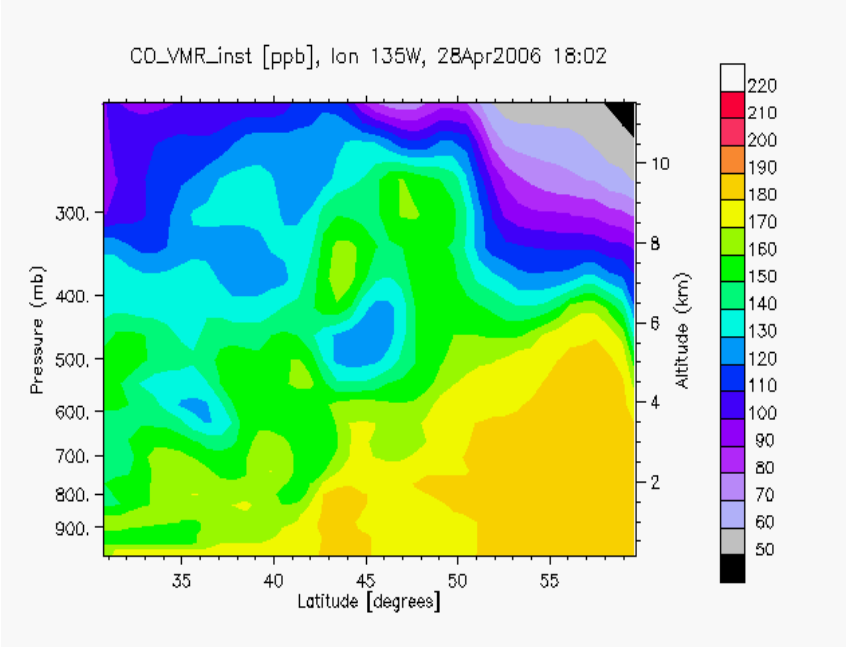
Forecast of Total and Asian CO (700 and 500 hPa)

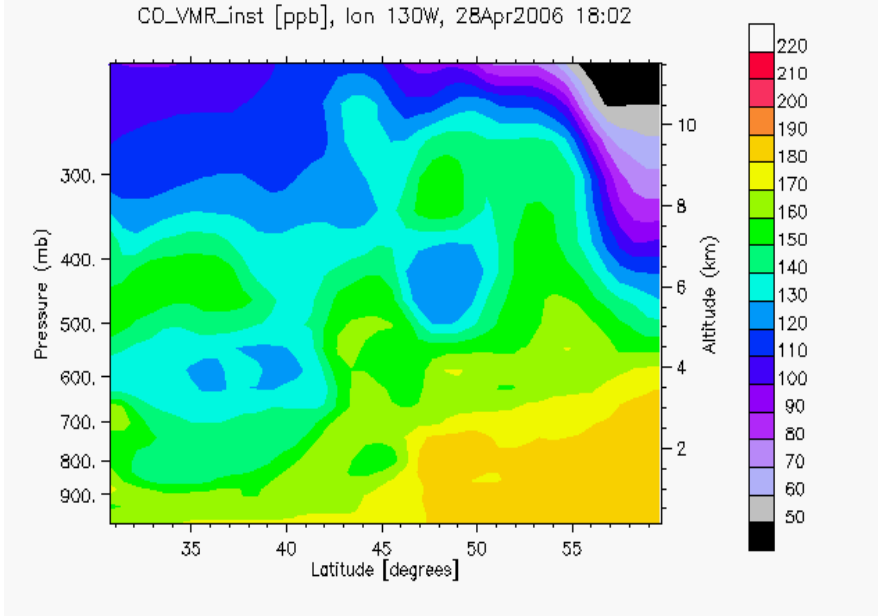


Forecast of CO (Longitude Slices) 4/28 18Z

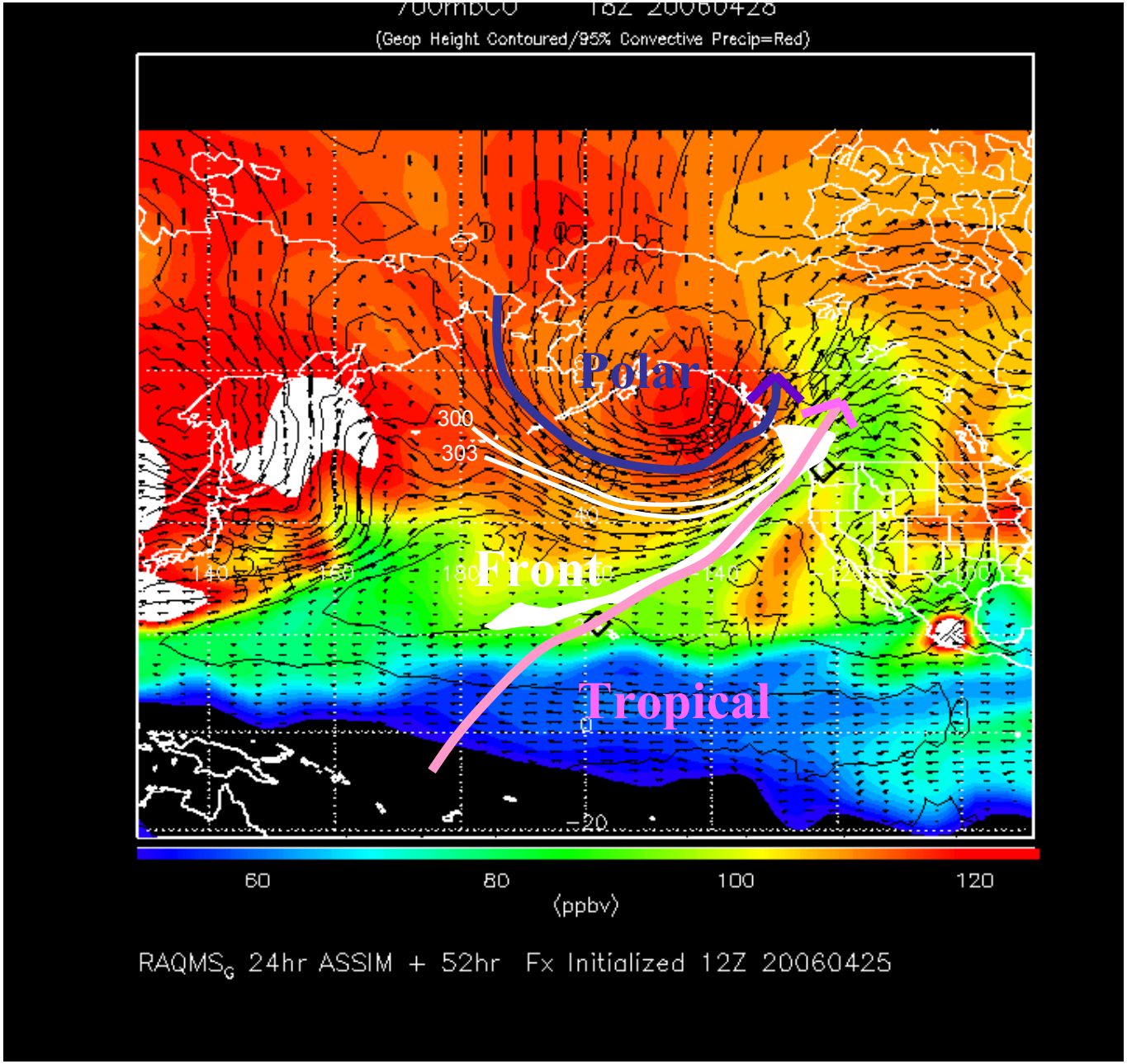




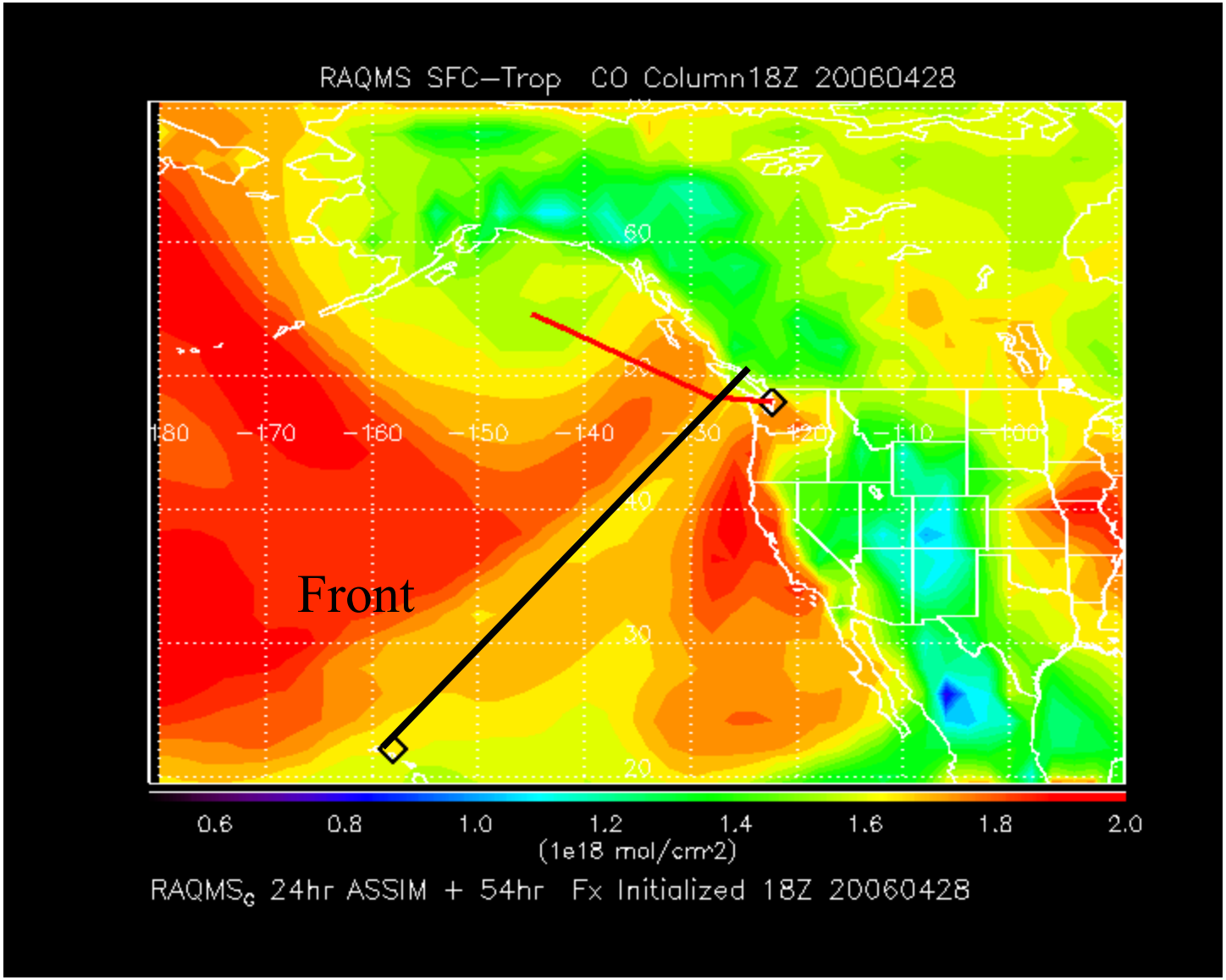




RAQMS 700 mb CO with Geop Ht: 4/28 18 UTC

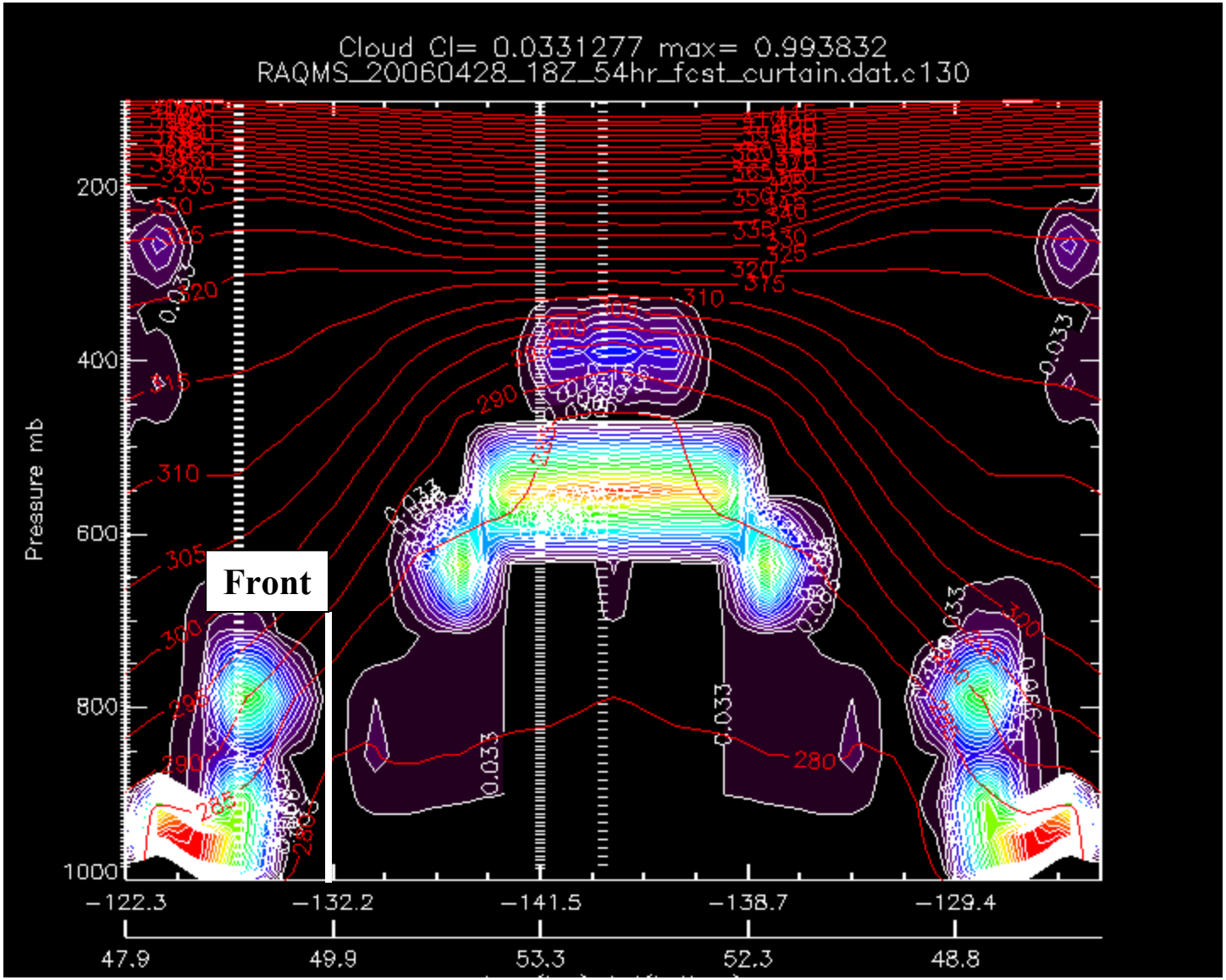


RAQMS 54hr CO Trop Column Fx Valid 18Z 04/28/06

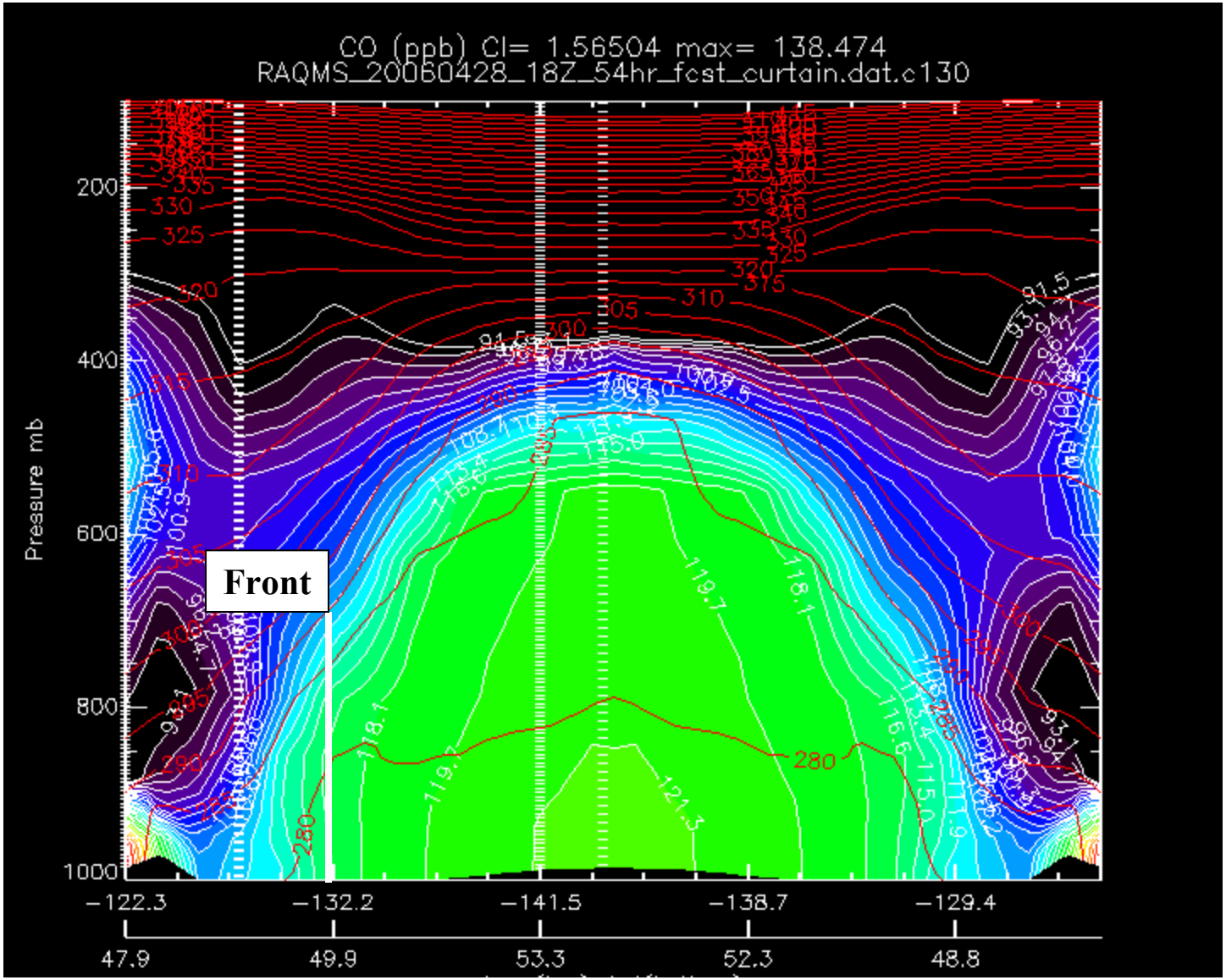


Note: low tropopause within low pressure results in low column

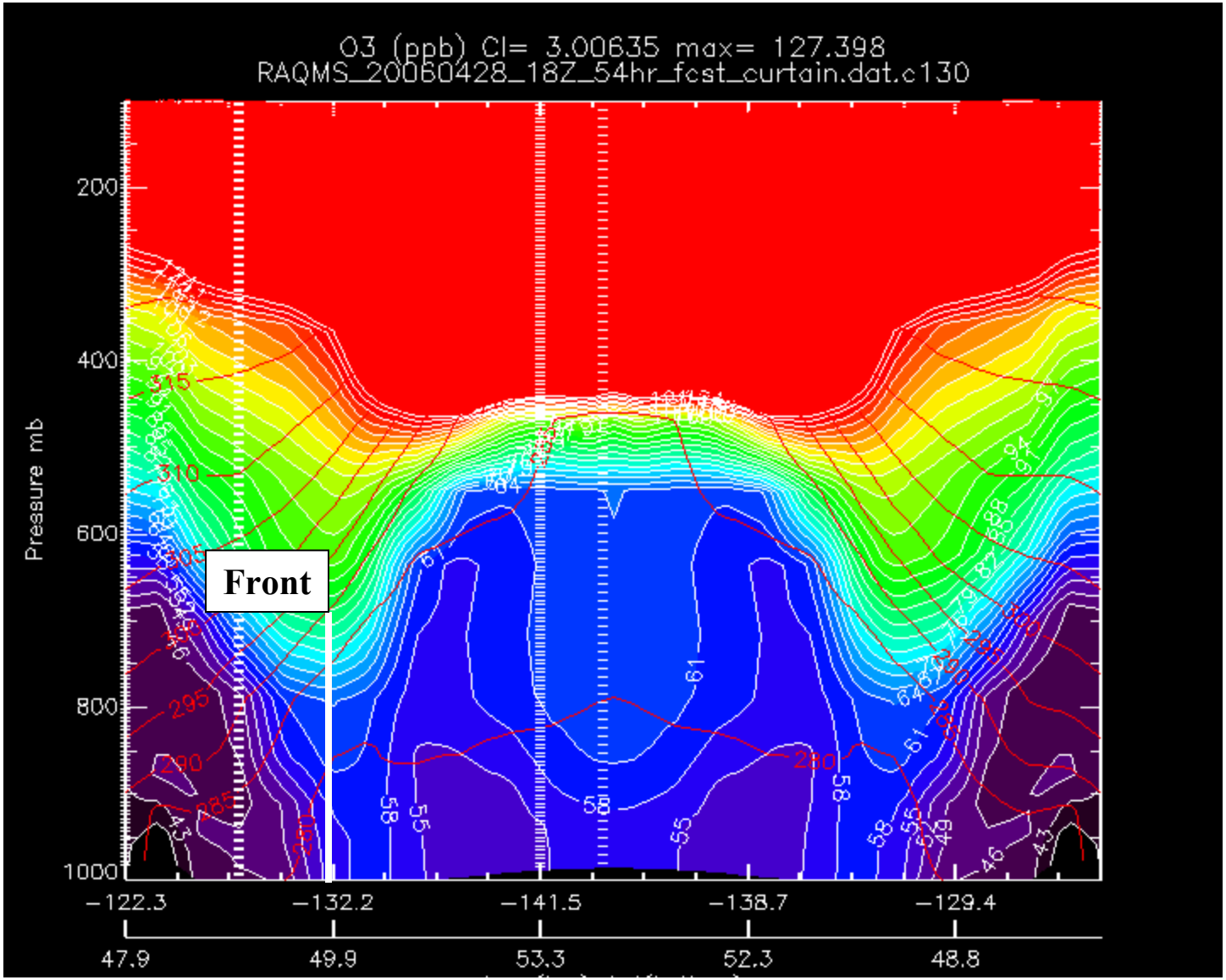
RAQMS 54hr CLD Flt Curtain Fx Valid 18Z 04/28/06



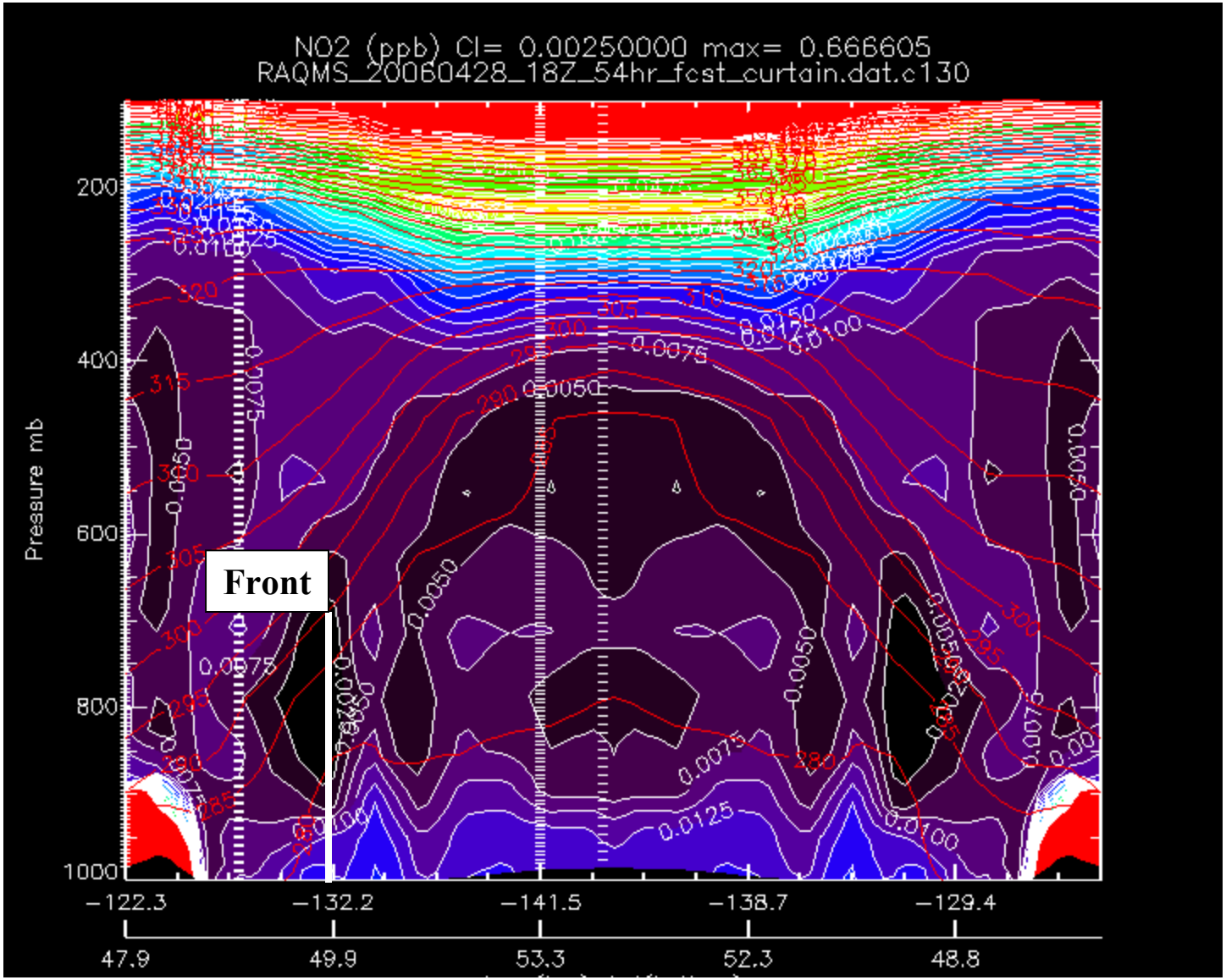
RAQMS 54hr CO Flt Curtain Fx Valid 18Z 04/28/06



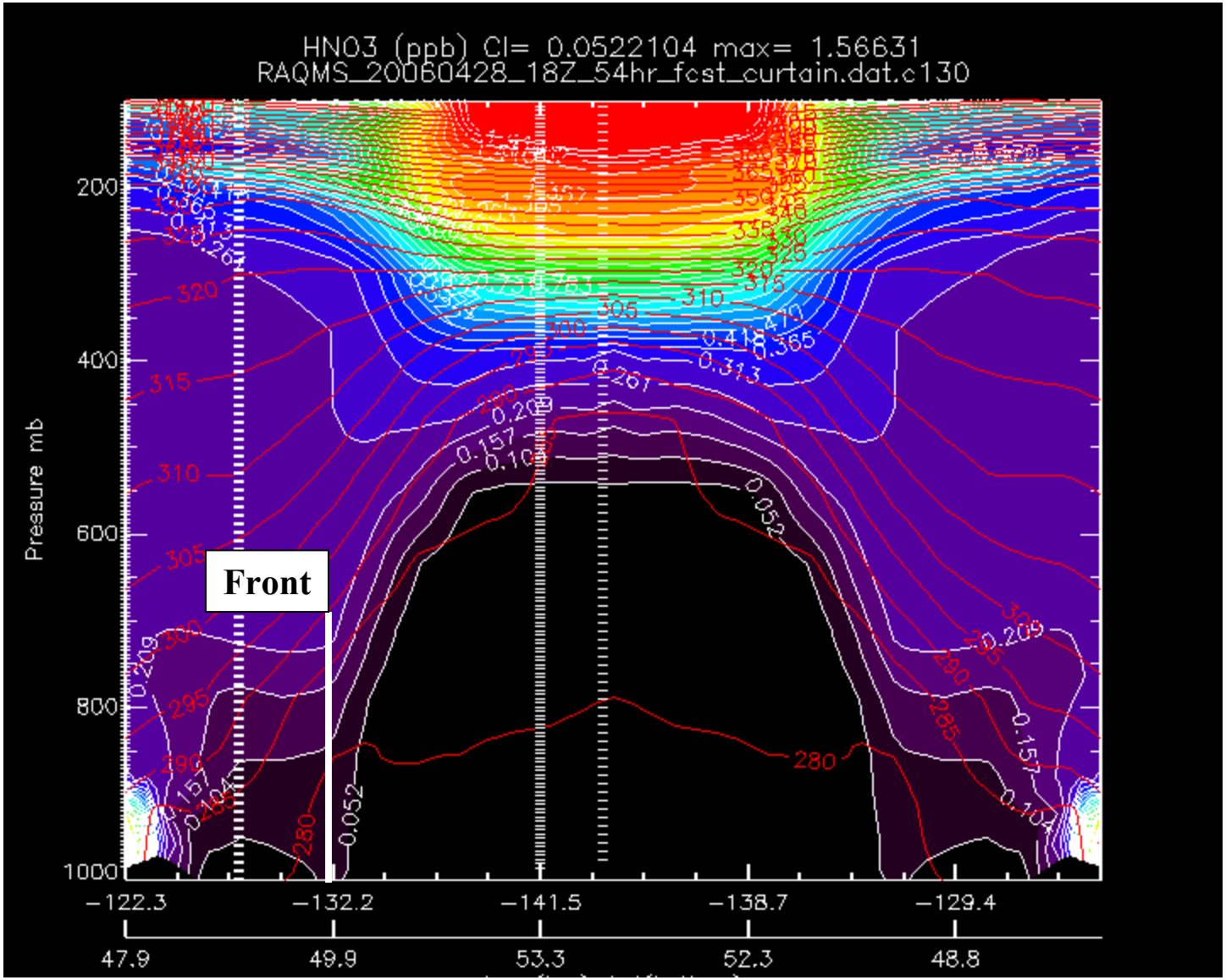
RAQMS 54hr O3 Flt Curtain Fx Valid 18Z 04/28/06



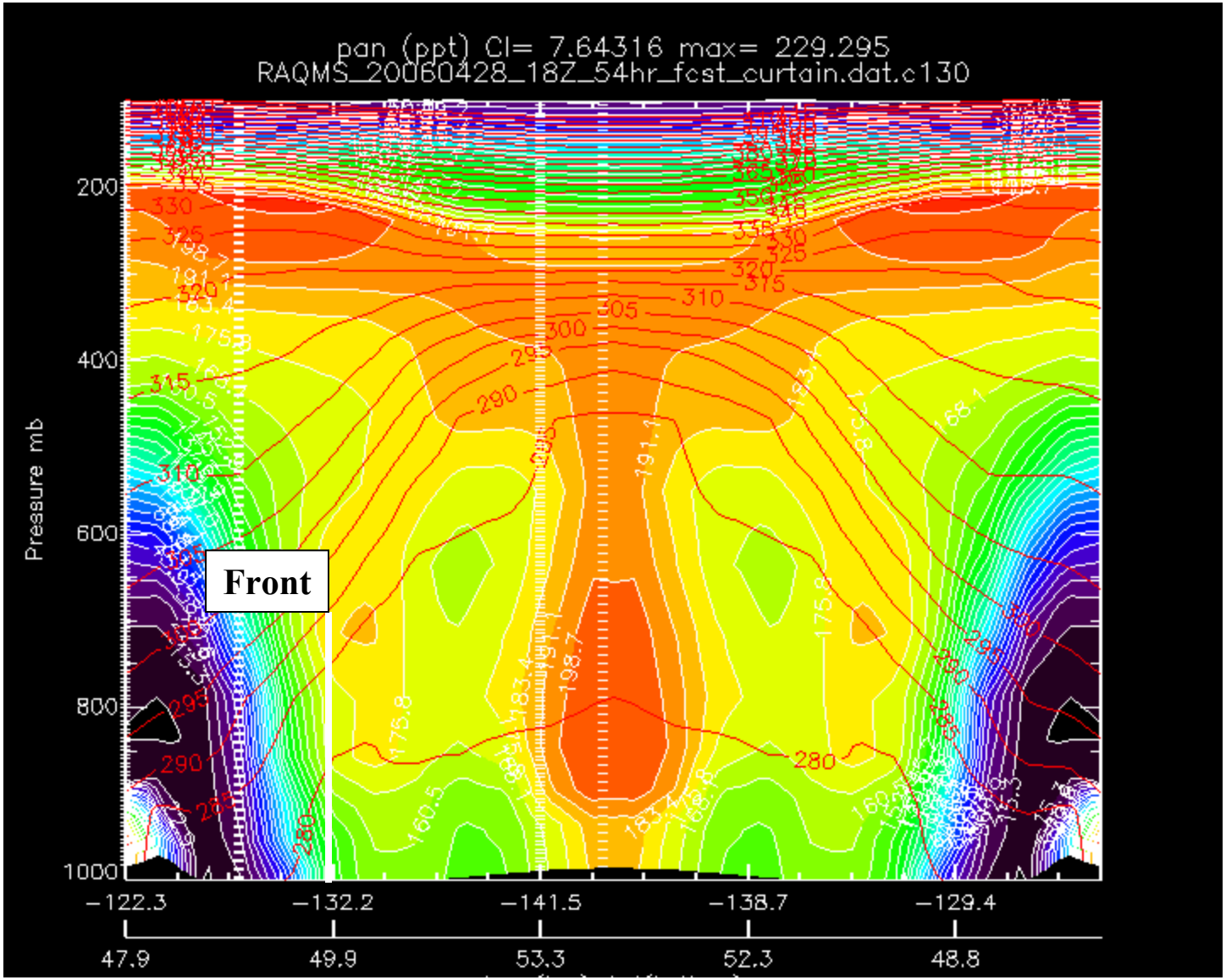
RAQMS 54hr NO2 Flt Curtain Fx Valid 18Z 04/28/06

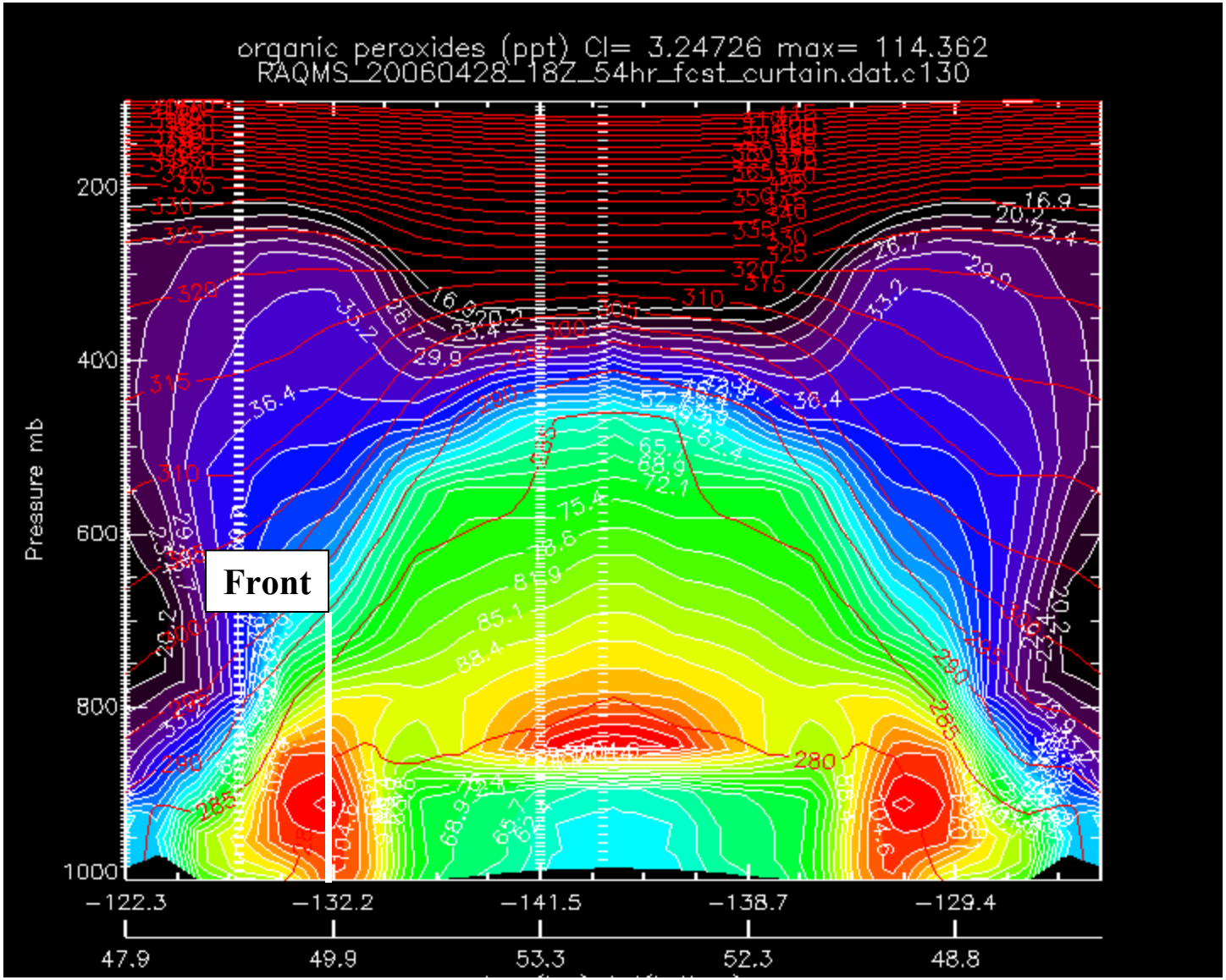


RAQMS 54hr HNO3 Flt Curtain Fx Valid 18Z 04/28/06



RAQMS 54hr PAN Flt Curtain Fx Valid 18Z 04/28/06

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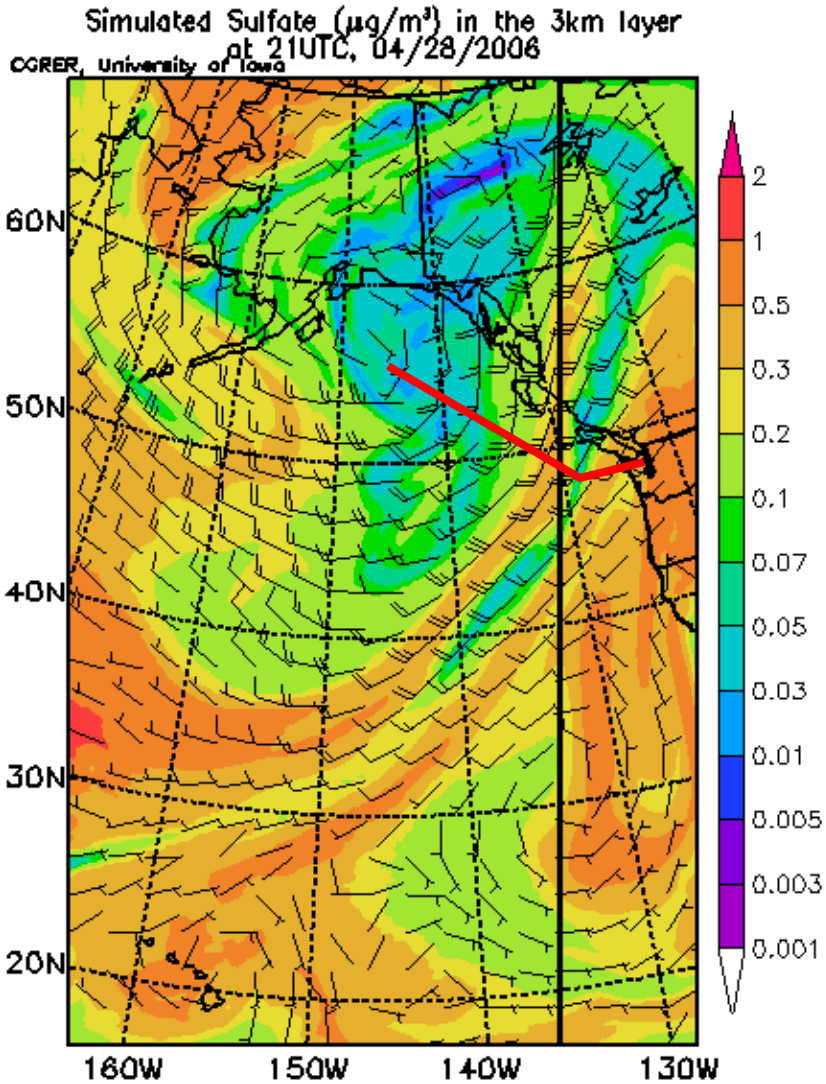
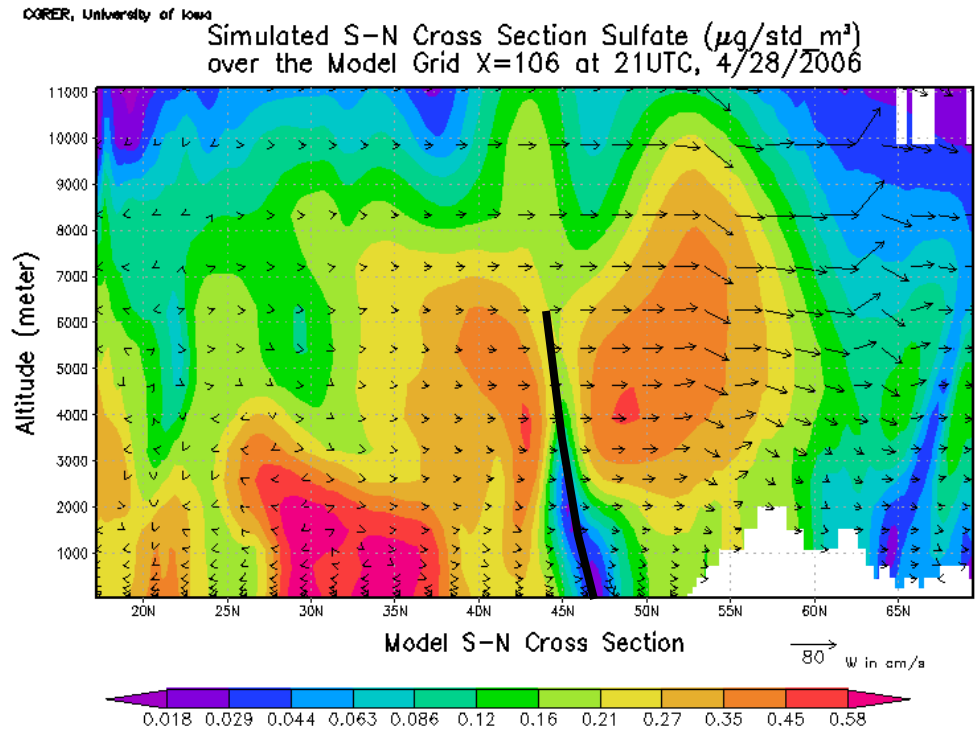
400
600
800
1000
Front
−122.3
−132.2
−141.5
−138.7
−129.4
47.9
49.9
53.3
52.3
48.8

STEM Sulfate Distribution at Frontal Crossing