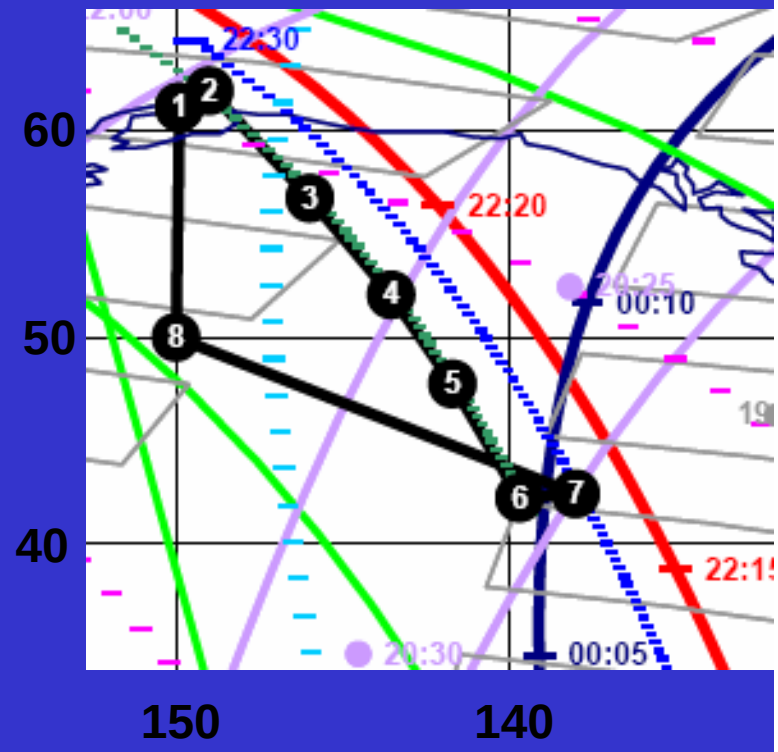
Plan for INTEX-B flight#17 – Anchorage local 3 on Tuesday 5/9 updated Monday 5/8 @20Z

Objectives:

- TES limb validation
- TES nadir validation
- Asian pollution

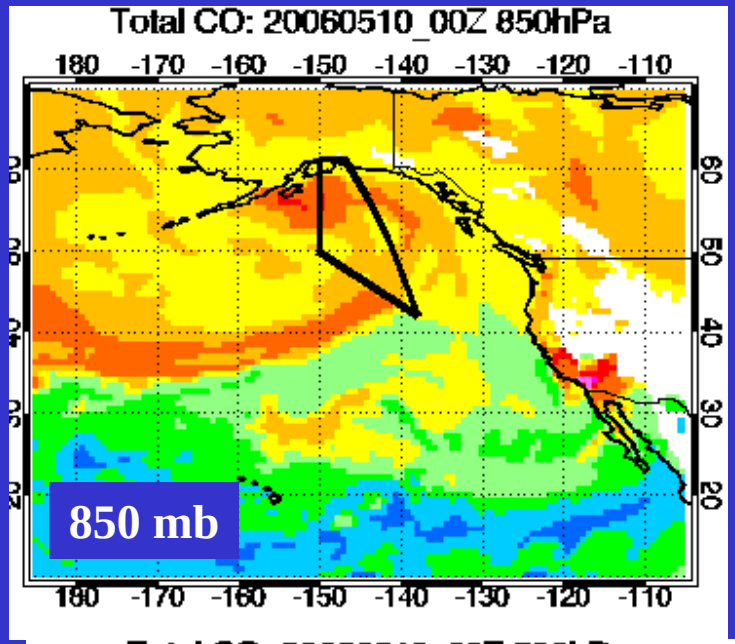


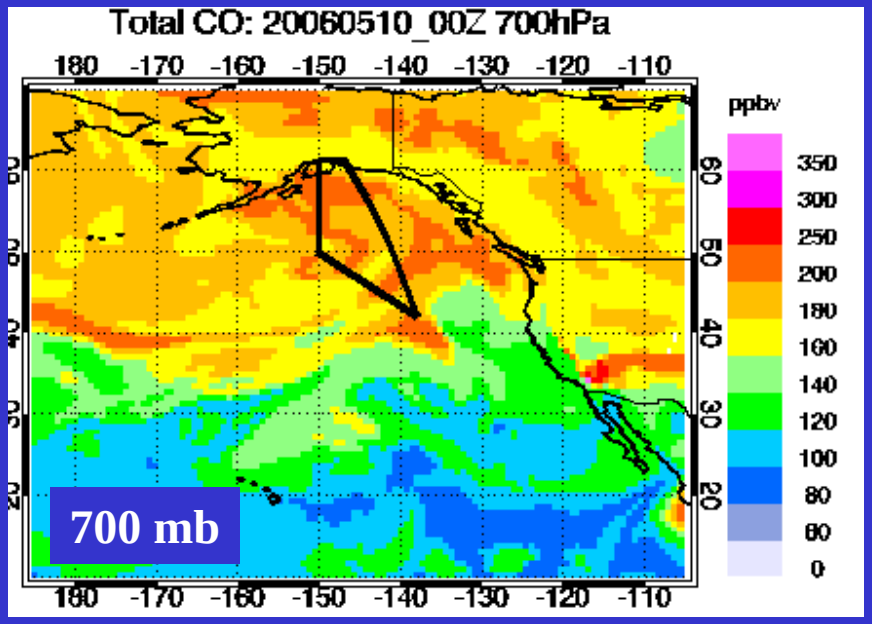
- Points 2-3: low-altitude Asian pollution
- Points 3-6: TES limb track
- Point 7: TES spiral
- Points 7-8-1: vertical profiling through Asian plumes

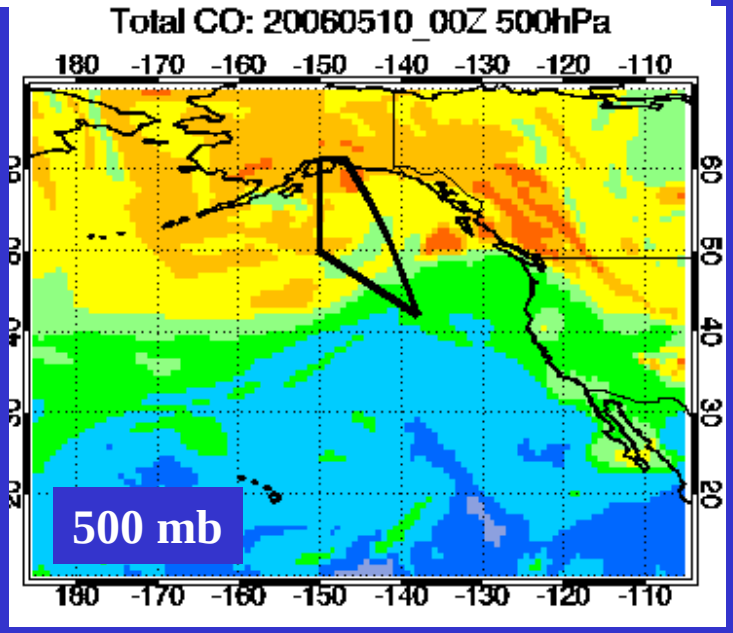
Take-off time 1145 local, 9 h flight

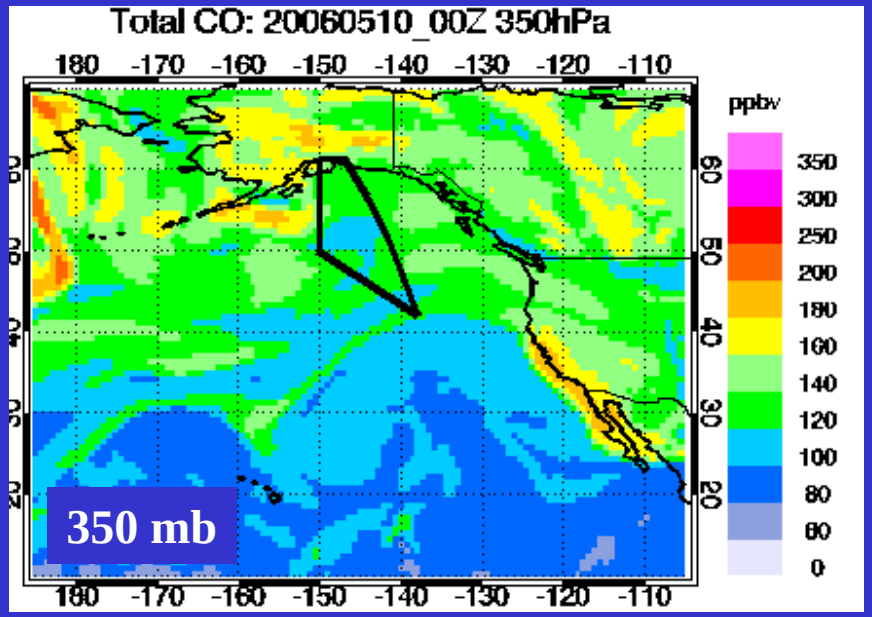
Point	1	2	3	4	5	6	7	8	9
Latitude	61.2	62	56.776	52.0669	47.7264	42.1799	42.3799	50	61.2
Longitude	-149.9	-149	-145.9926	-143.551	-141.7158	-139.7092	-138.0163	-150	-149.9
Cum. Flt. Time	0:00	0:10	1:13	2:10	3:02	4:08	4:23	7:03	9:13
Leg Flt. Time		0:10	1:03	0:56	0:52	1:06	0:14	2:10	2:09
Local Time	11:45	11:55	12:58	13:55	14:47	15:53	16:08	18:48	20:58
UTC	19:45	19:55	20:58	21:55	22:47	23:53	0:08	2:48	4:58

0507 12Z Fx for 0510 0Z

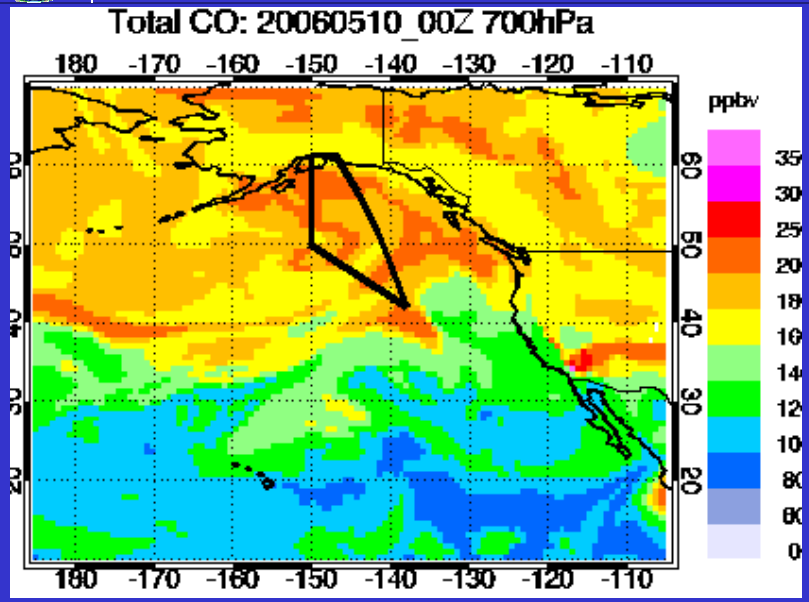


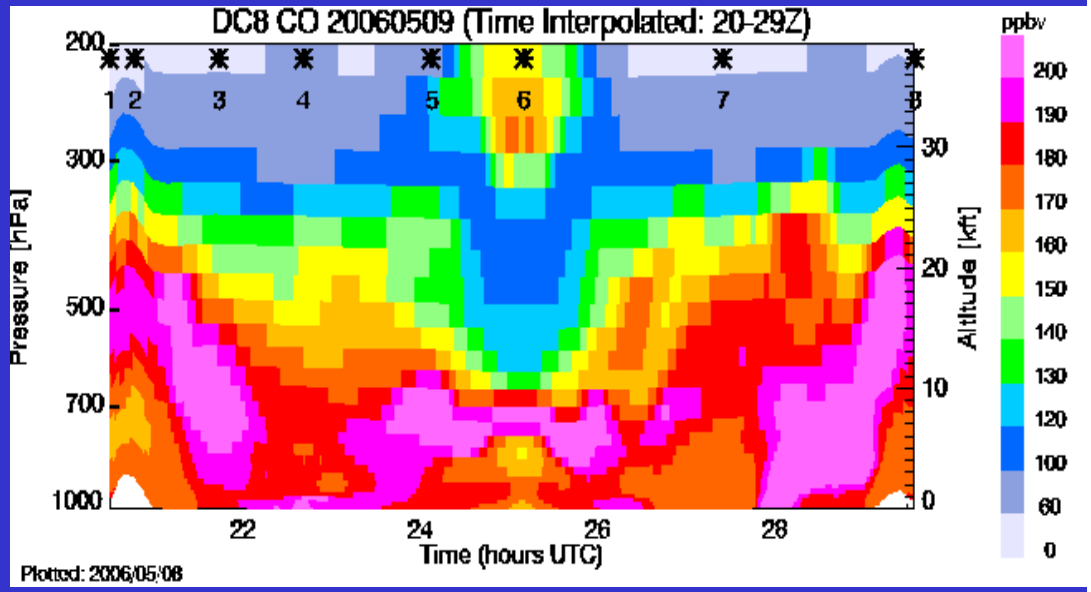


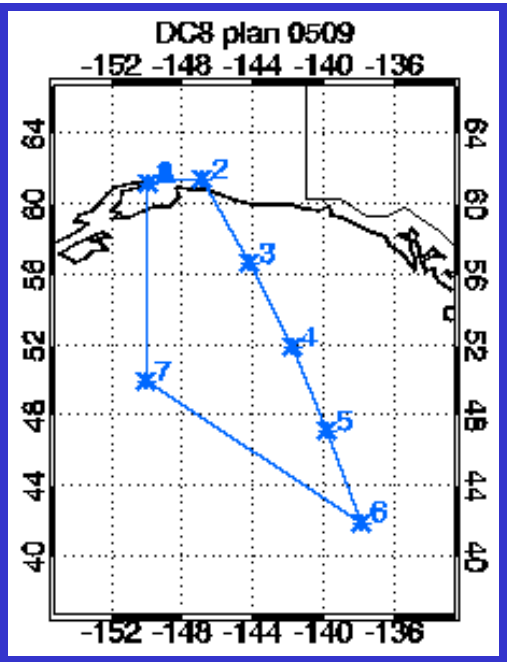


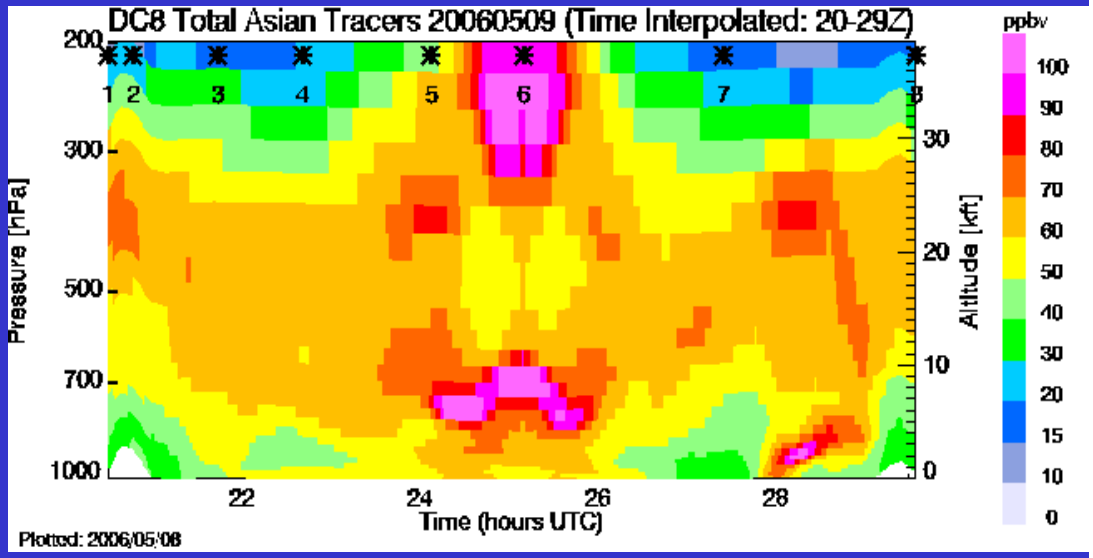


0507 12Z Fx for 0510

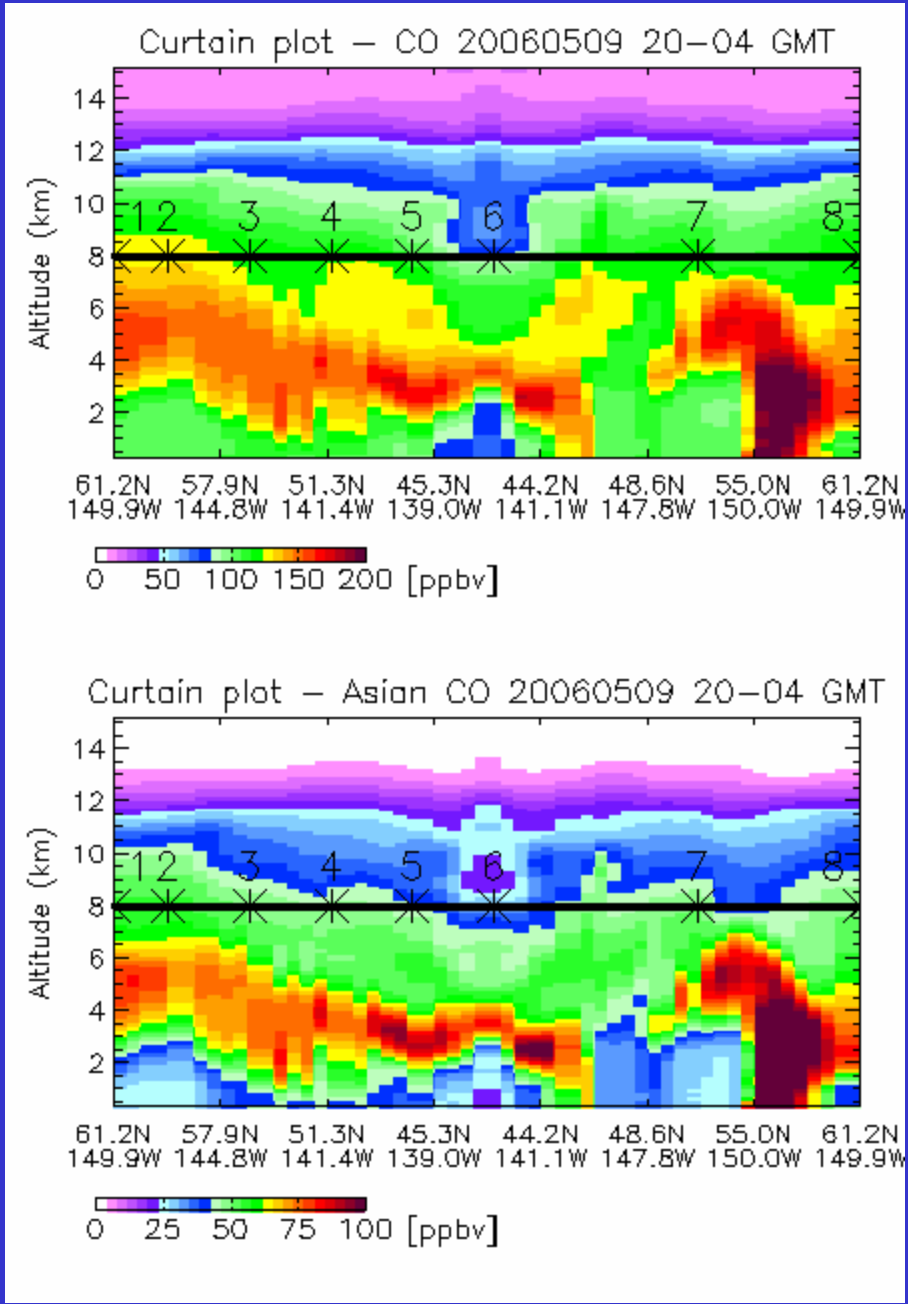


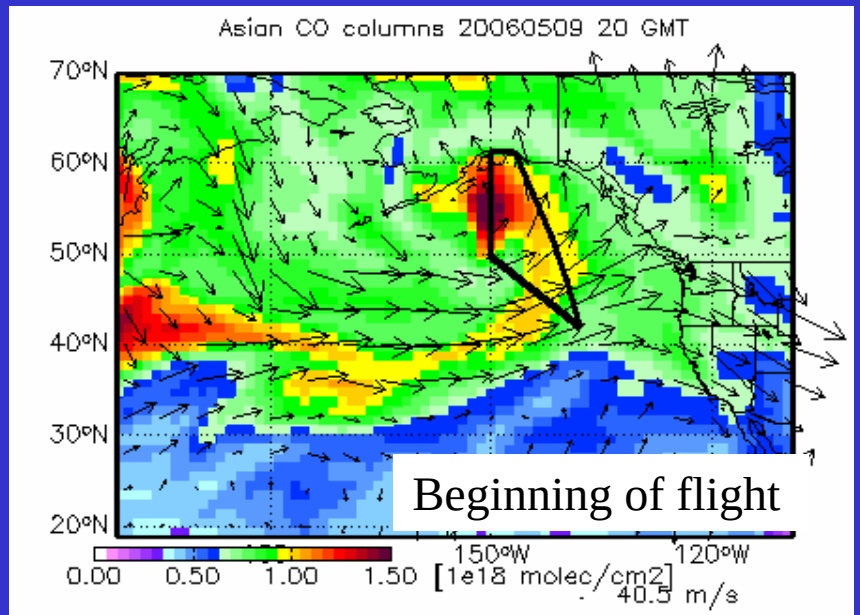


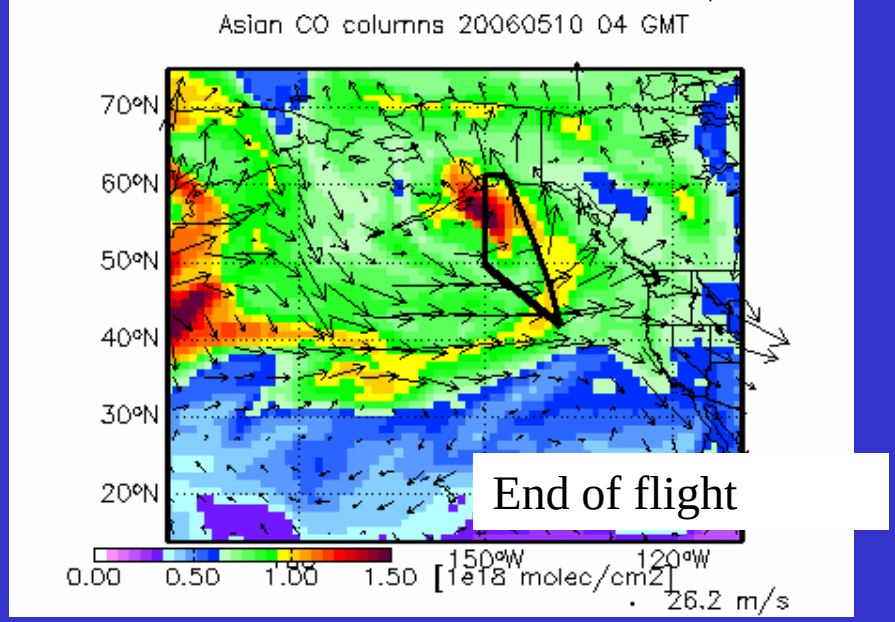




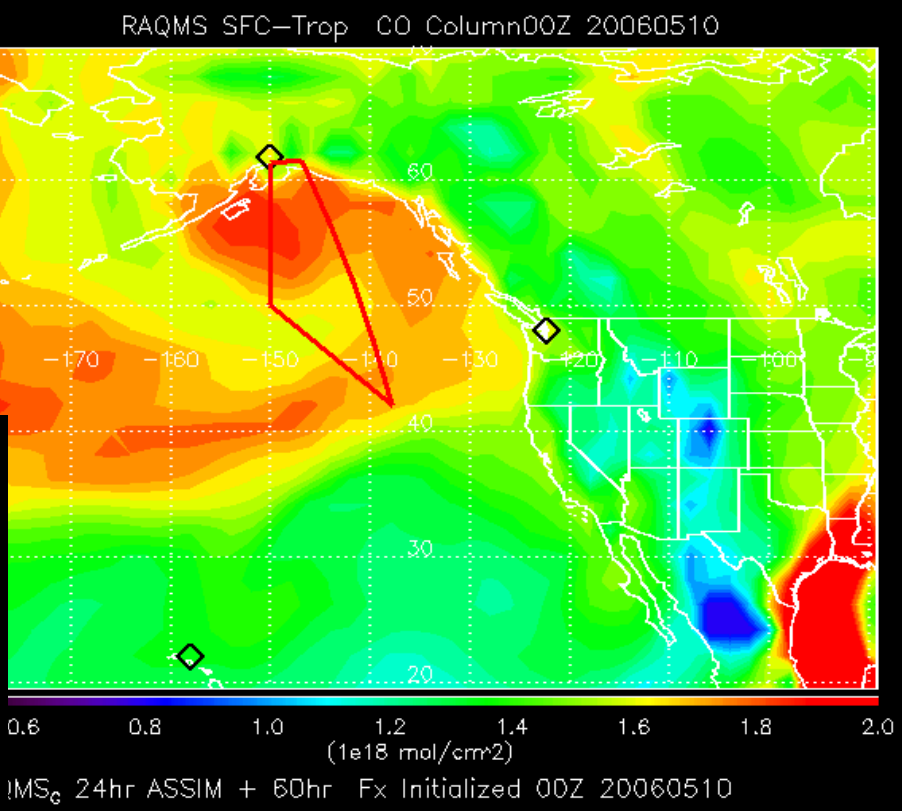
GMAO predictions for Flight 05/09

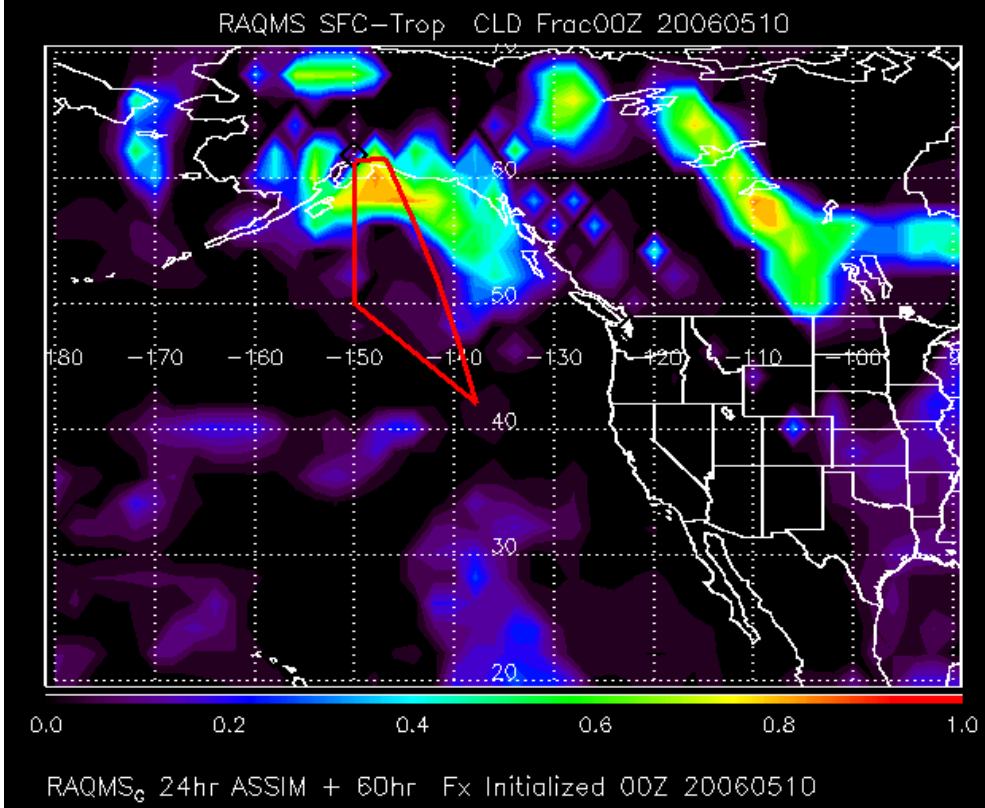




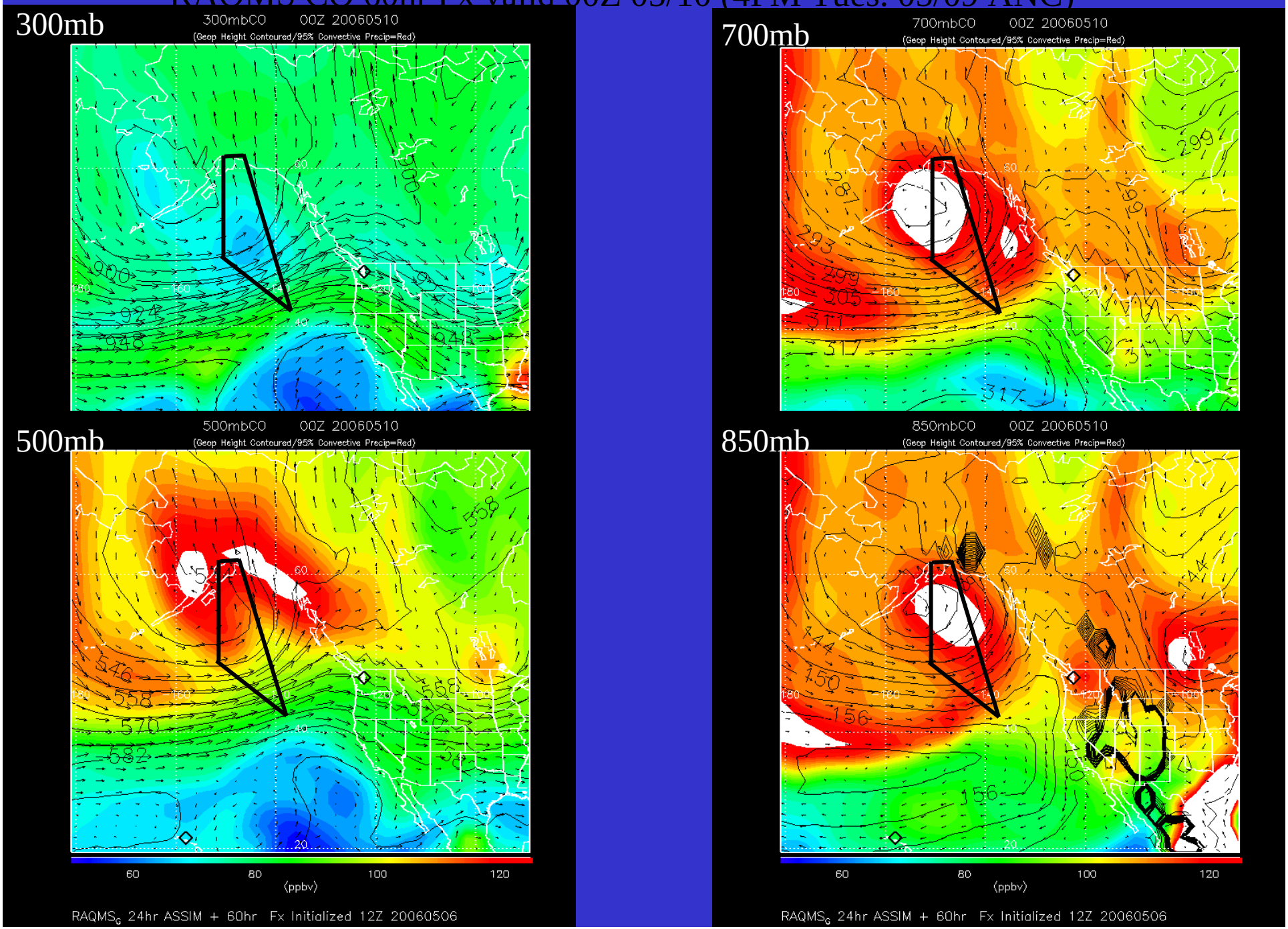


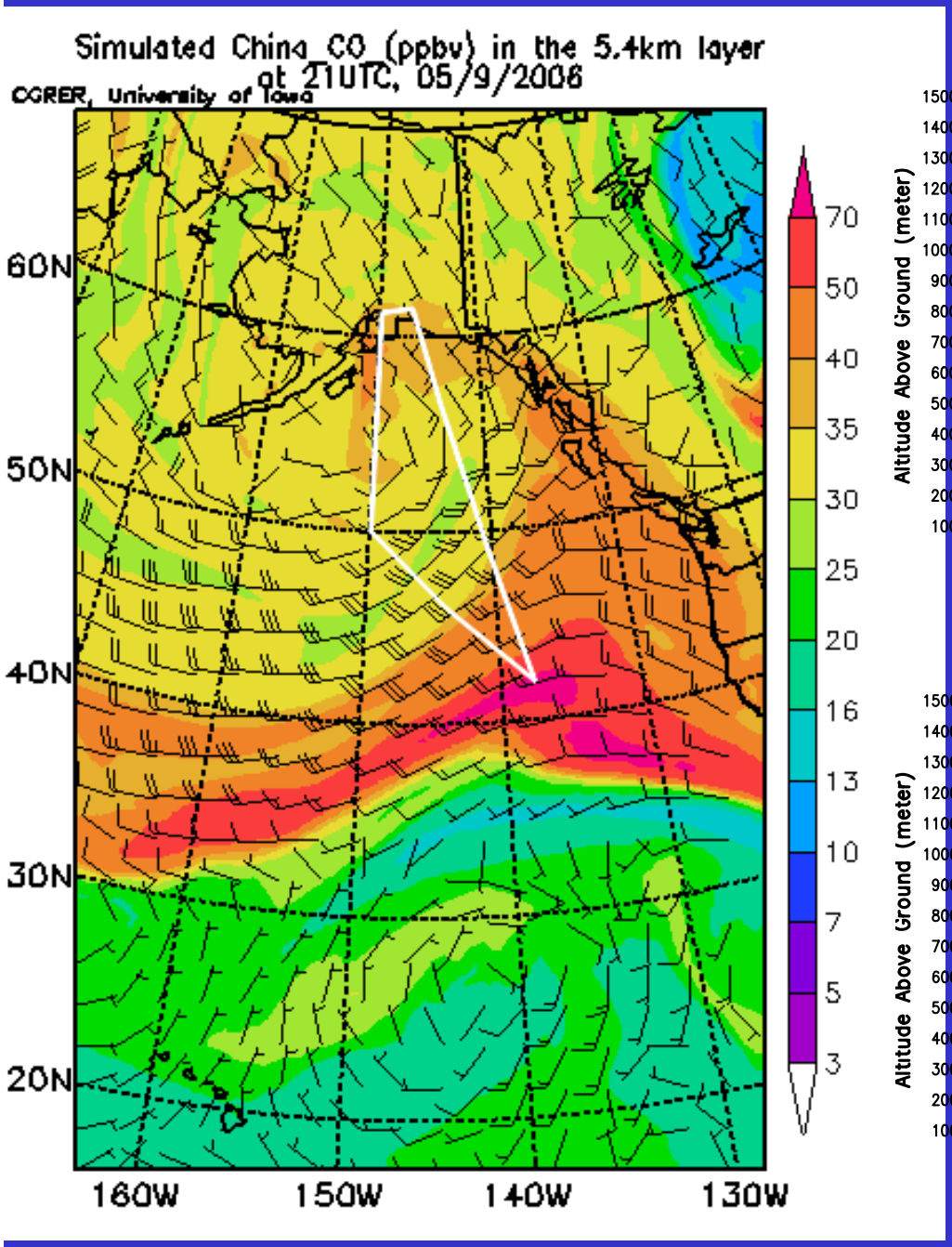
RAQMS CO, Cloud Columns 60hr Fx valid 00Z 05/10 (4PM Tues. 05/09 ANC)

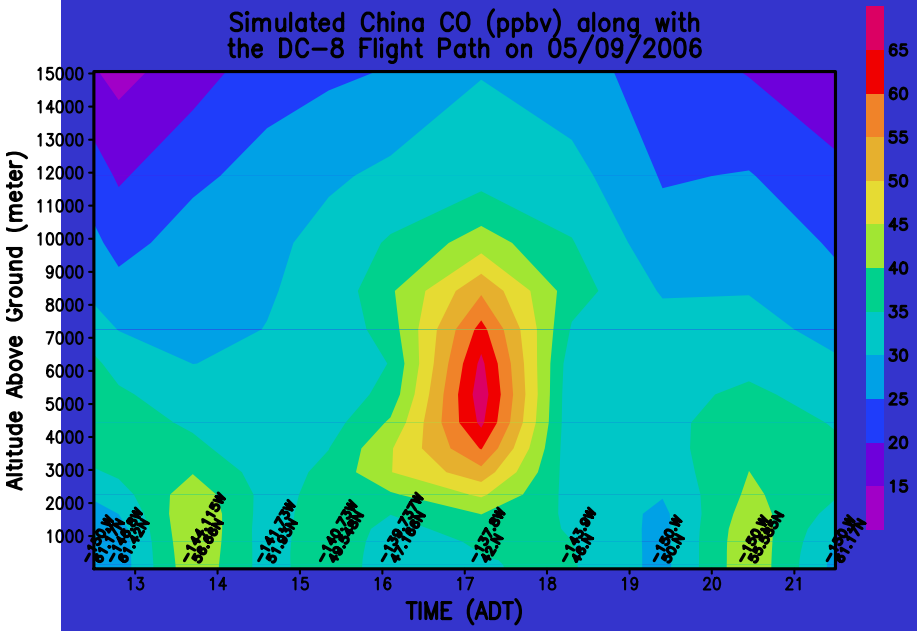


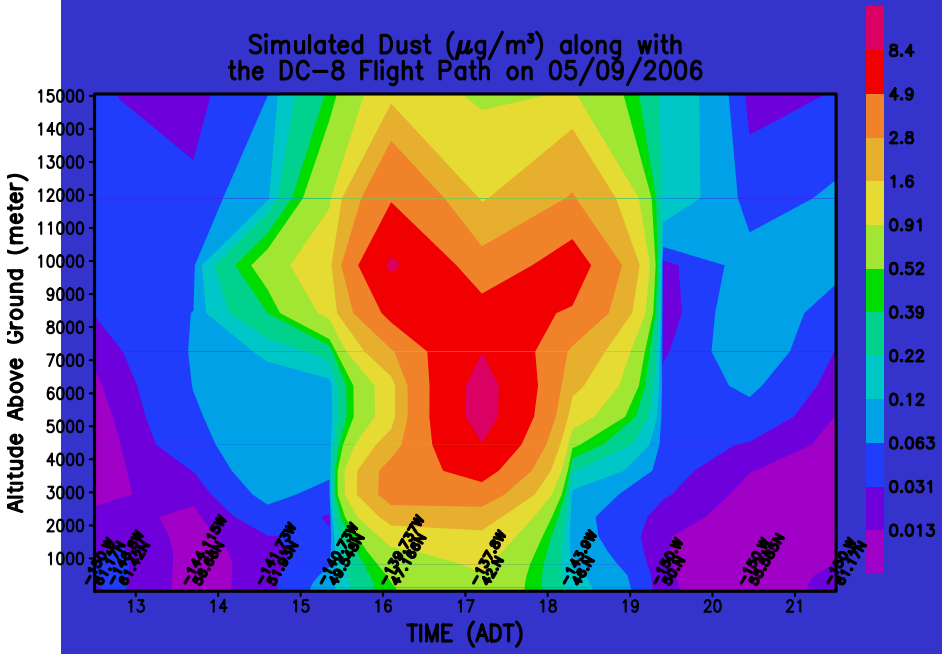


RAQMS CO 60hr Fx valid 00Z 05/10 (4PM Tues. 05/09 ANC)



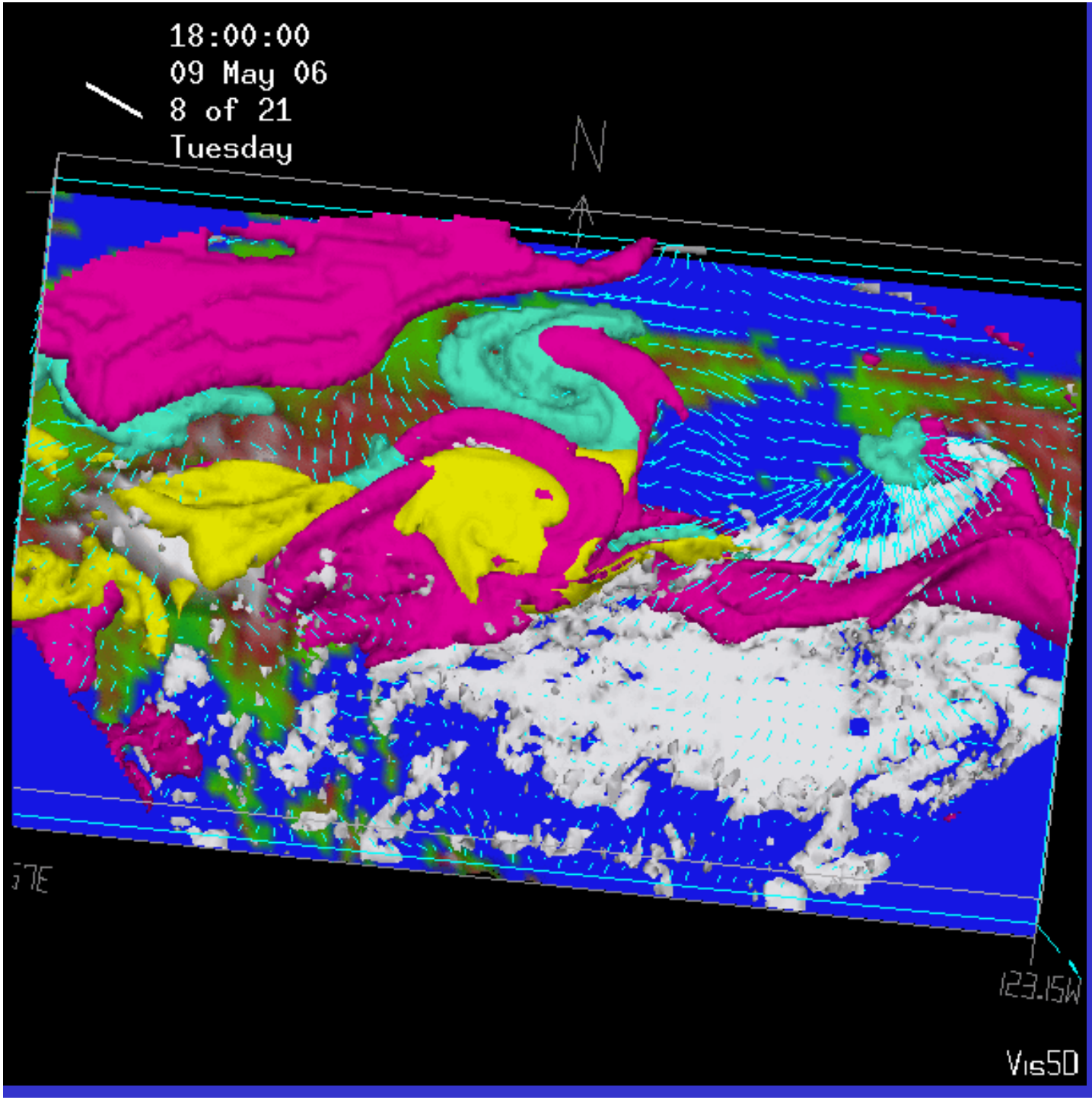

Simulated China CO (ppbv) in the 5.4km layer
at 21UTC, 05/9/2006
CGRER, University of Iowa
60N
50N
40N
30N
20N
160W
150W
140W
130W
70
50
40
35
30
25
20
16
13
10
7
5
3


Simulated China CO (ppbv) along with
the DC-8 Flight Path on 05/09/2006
Altitude Above Ground (meter)
TIME (ADT)
65
60
55
50
45
40
35
30
25
20
15


Simulated Dust (μg/m³) along with
the DC-8 Flight Path on 05/09/2006
Altitude Above Ground (meter)
TIME (ADT)
8.4
4.9
2.8
1.6
0.91
0.52
0.39
0.22
0.12
0.063
0.031
0.013

Looking ahead to the next flight, Thursday or Friday: 2 options

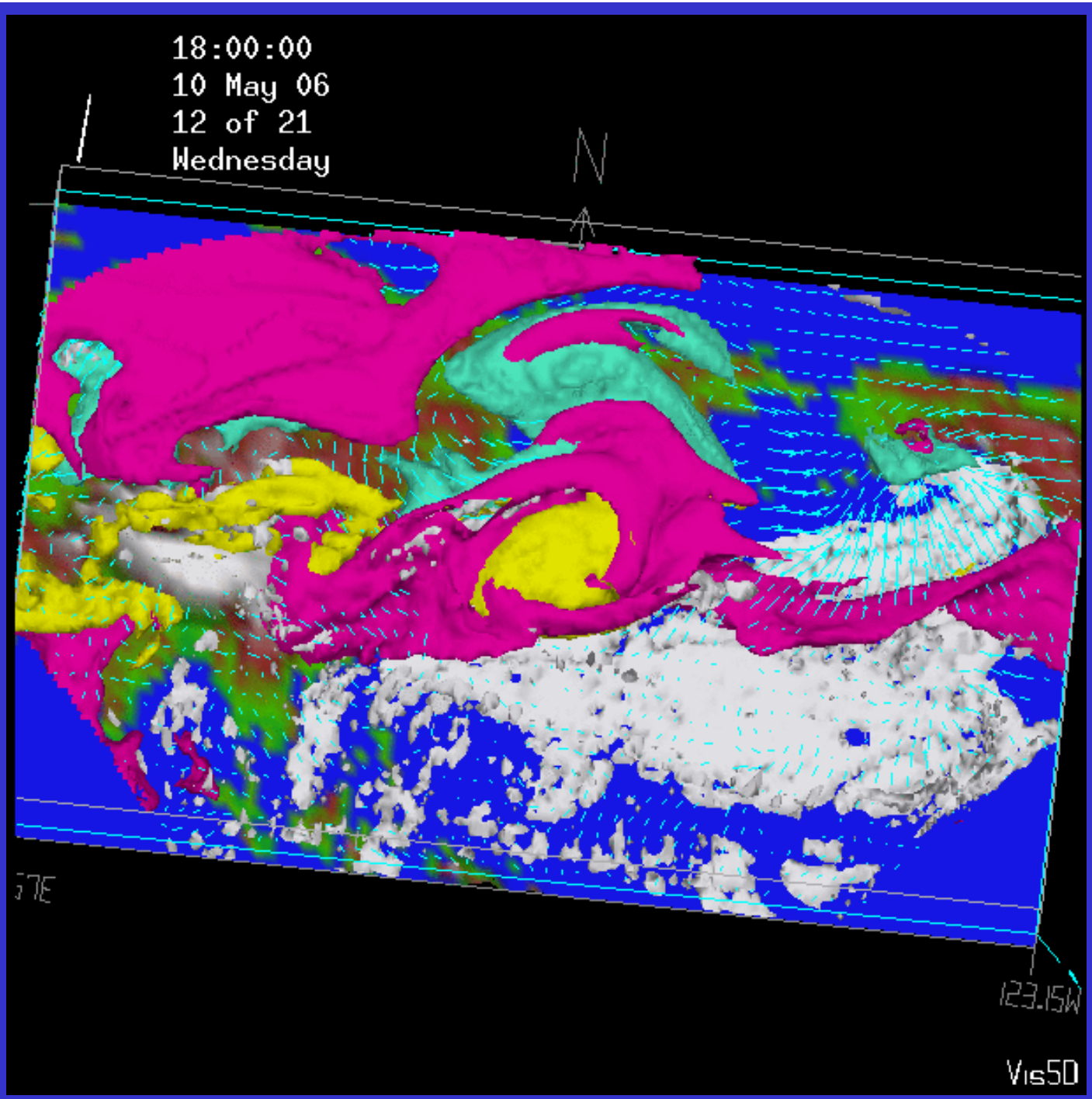
- Fly west to intercept fresh Asian plume (Friday would likely be best)
- Fly north for OMI validation over ice and to sample aged mid-lat pollution accumulated in the Arctic



China CO

N-Asia BB

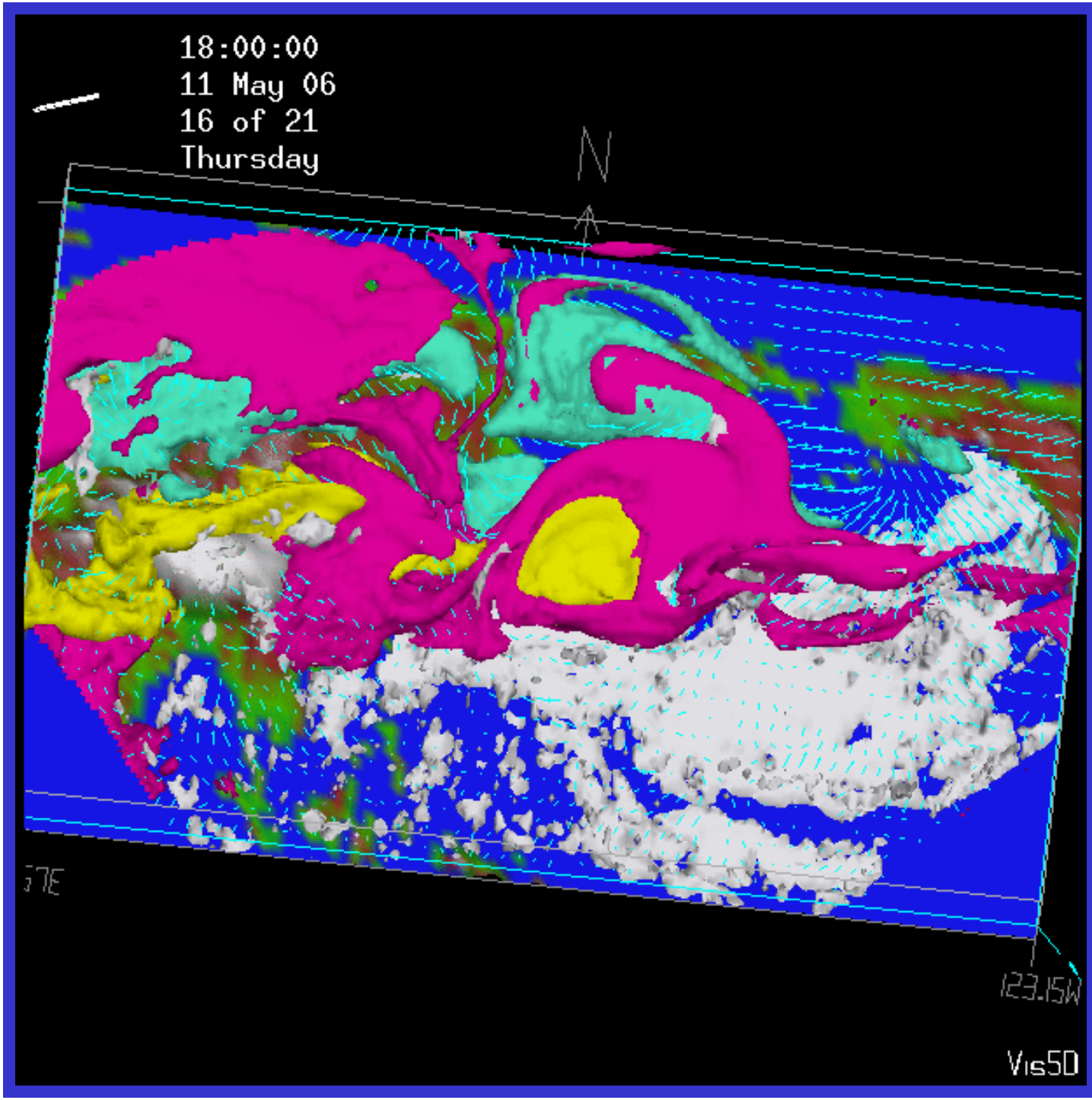
Dust



China CO

N-Asia BB

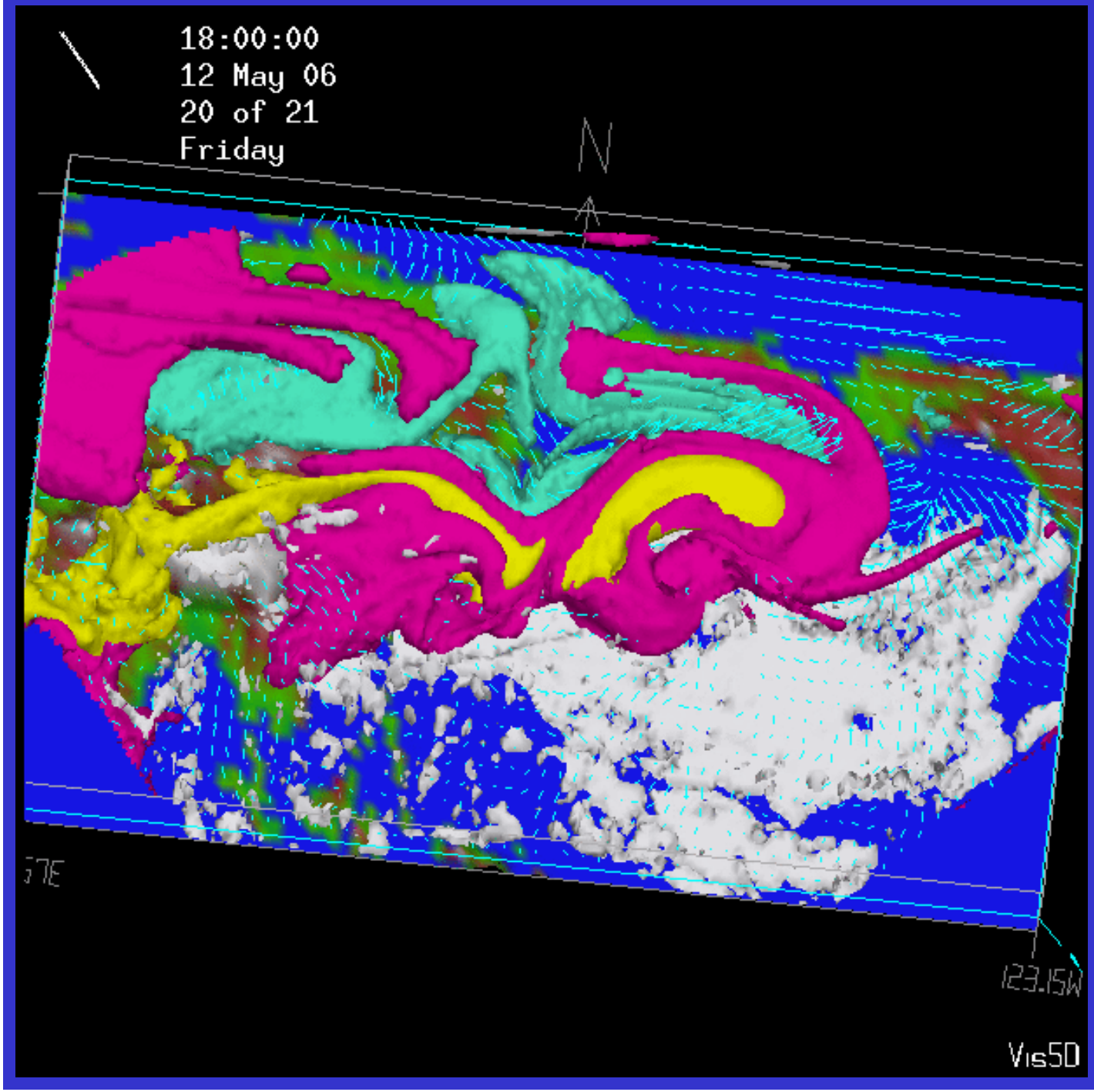
Dust



China CO

N-Asia BB

Dust

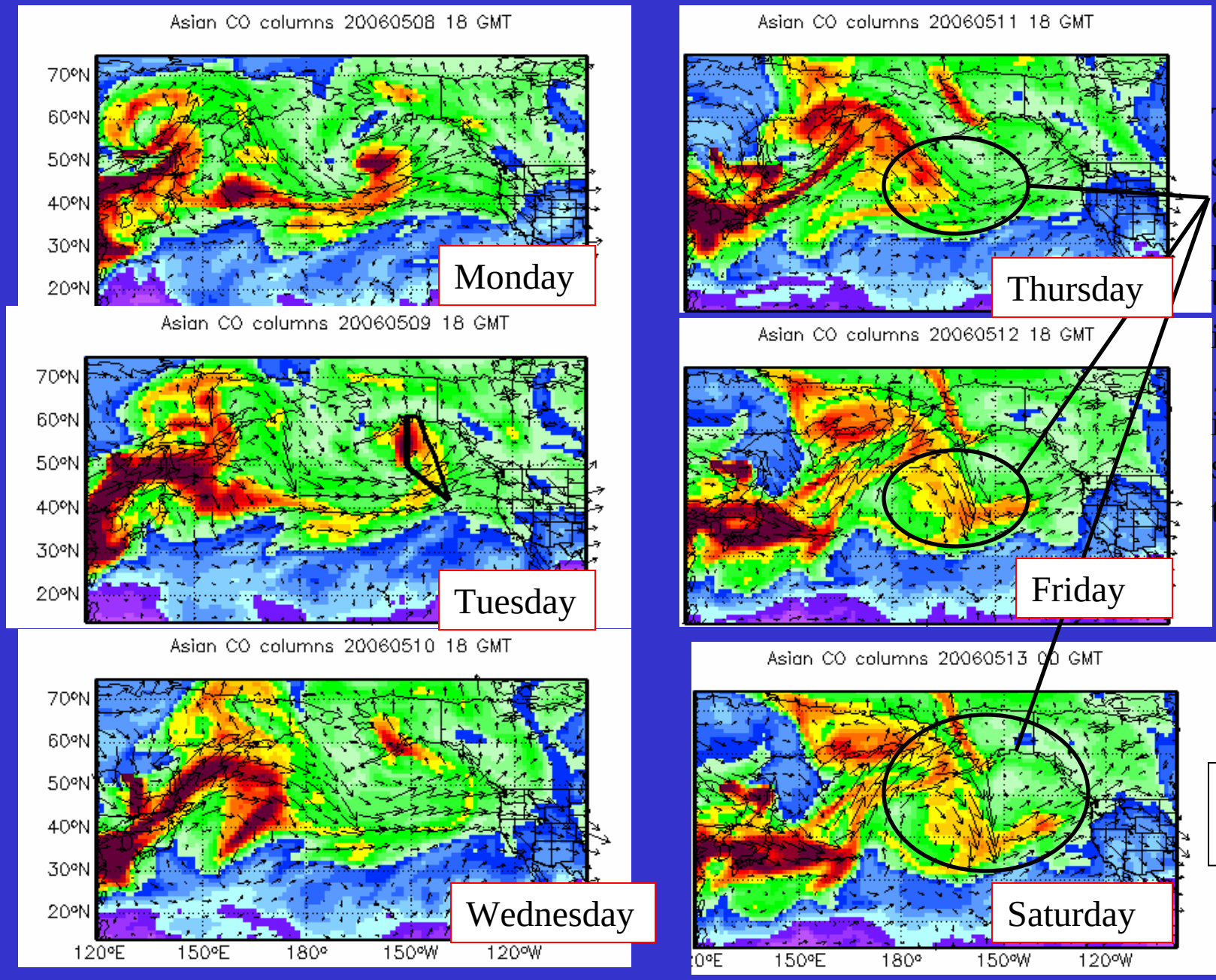


China CO

N-Asia BB

Dust

GMAO Asian CO columns

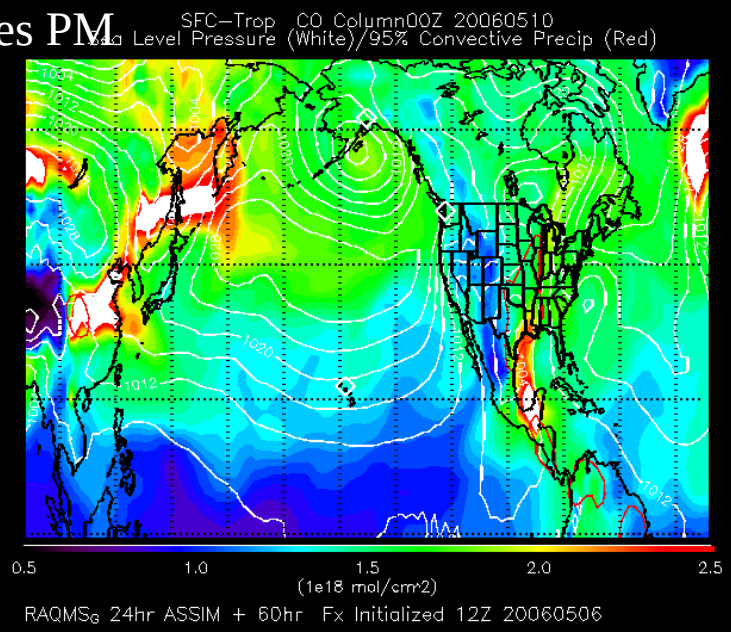


This subsidence event could potentially be very interesting …especially if it came on shore for transit.

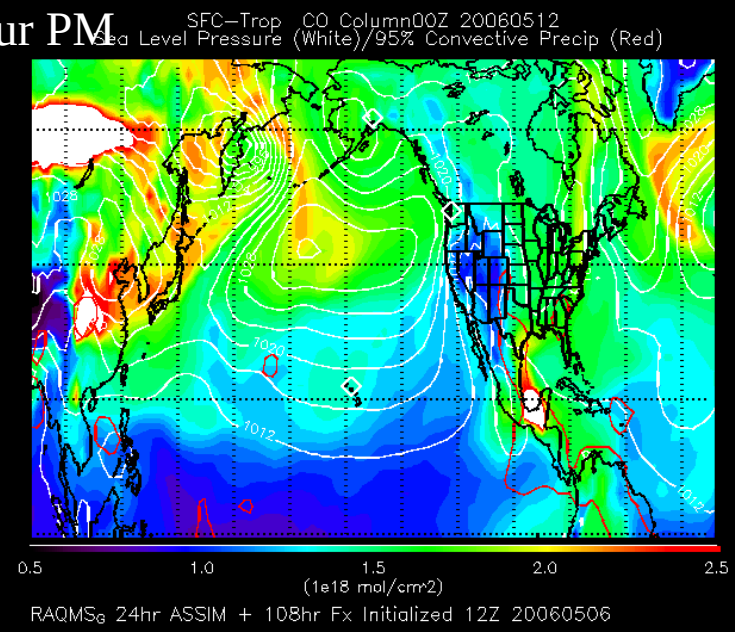
Inititialized 5/08 0Z

Ahead: RAQMS Column CO Tuesday-Friday

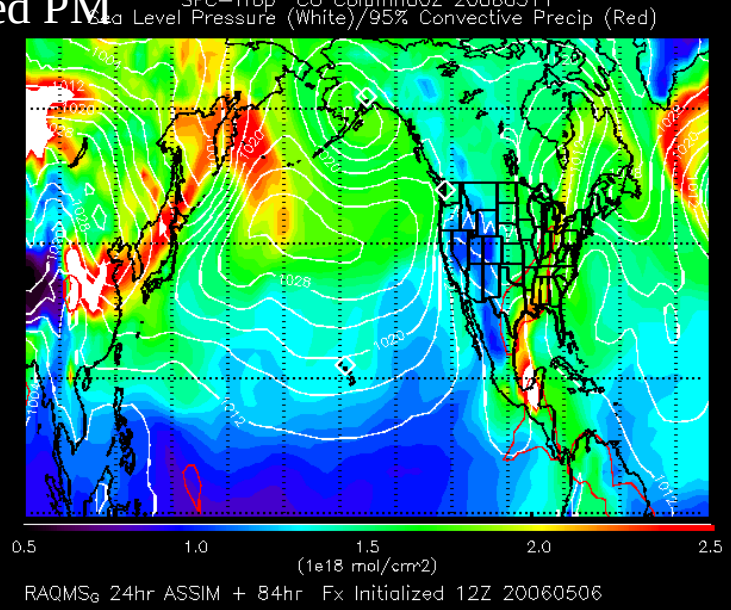
Tues PM



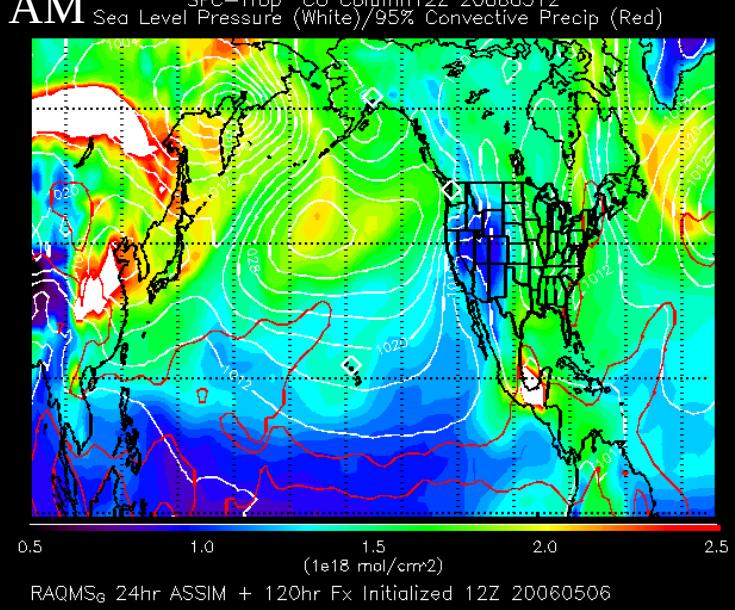
Thur PM



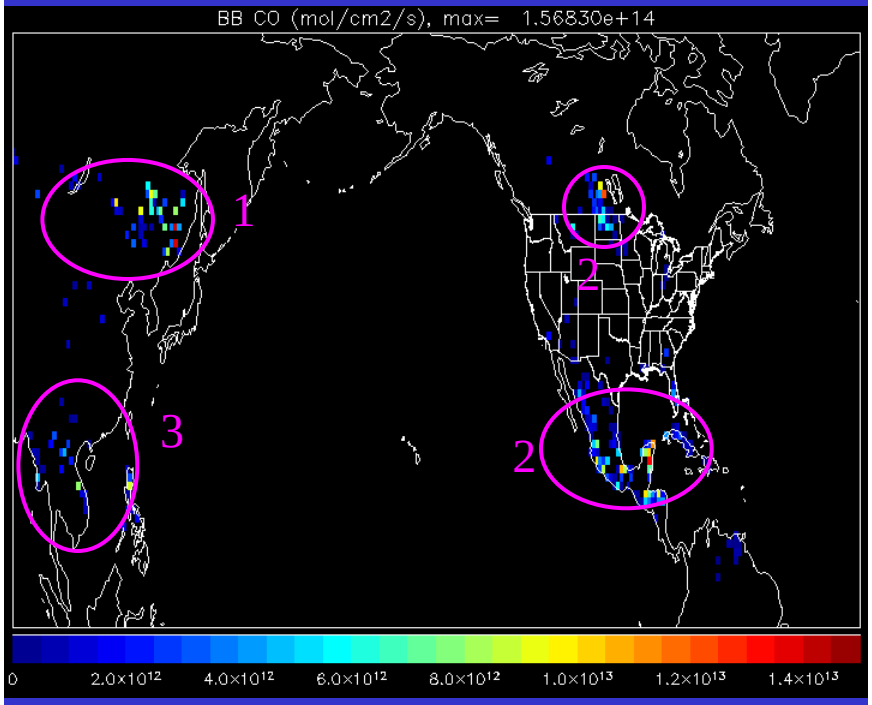
Wed PM

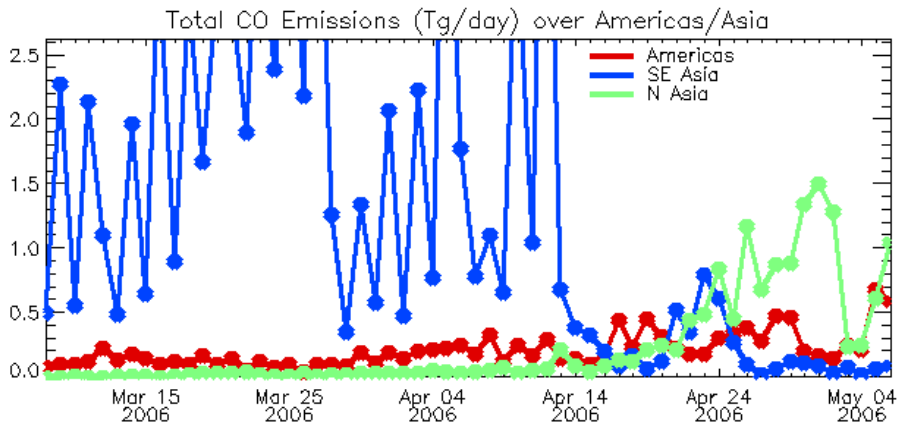


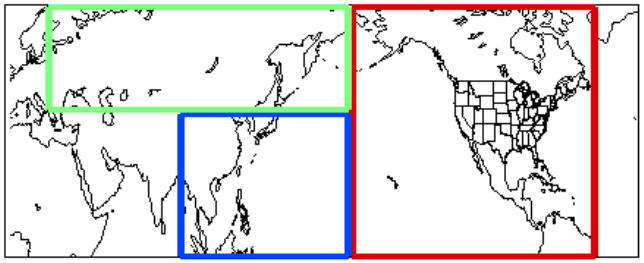
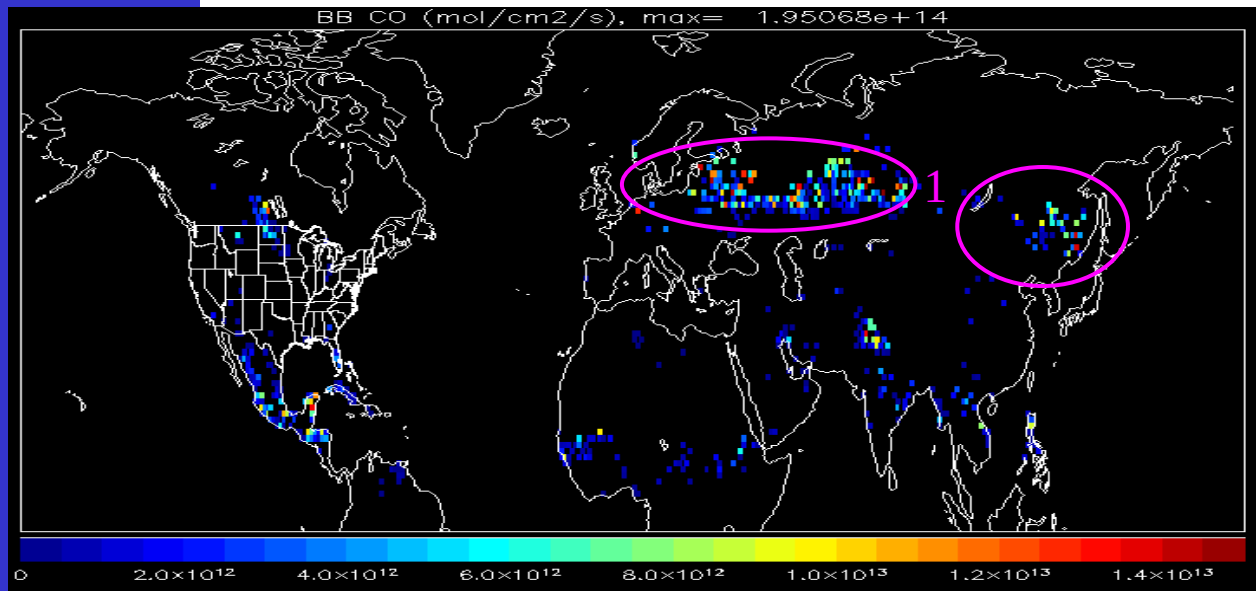
Fri AM



RAQMS near-real-time biomass burning CO emissions summary through 12Z May 7







1. Scattered burning in E. Siberia, burning in W. Siberia increasing again (heavy cloud cover 2-3 days ago???)
2. Americas burning still dominated by Central America, some burning in central Canada/N.Dakota(?).
3. Very little burning in SE Asia.