

INTEX-B 3 PM Science Team meeting 3/14/06

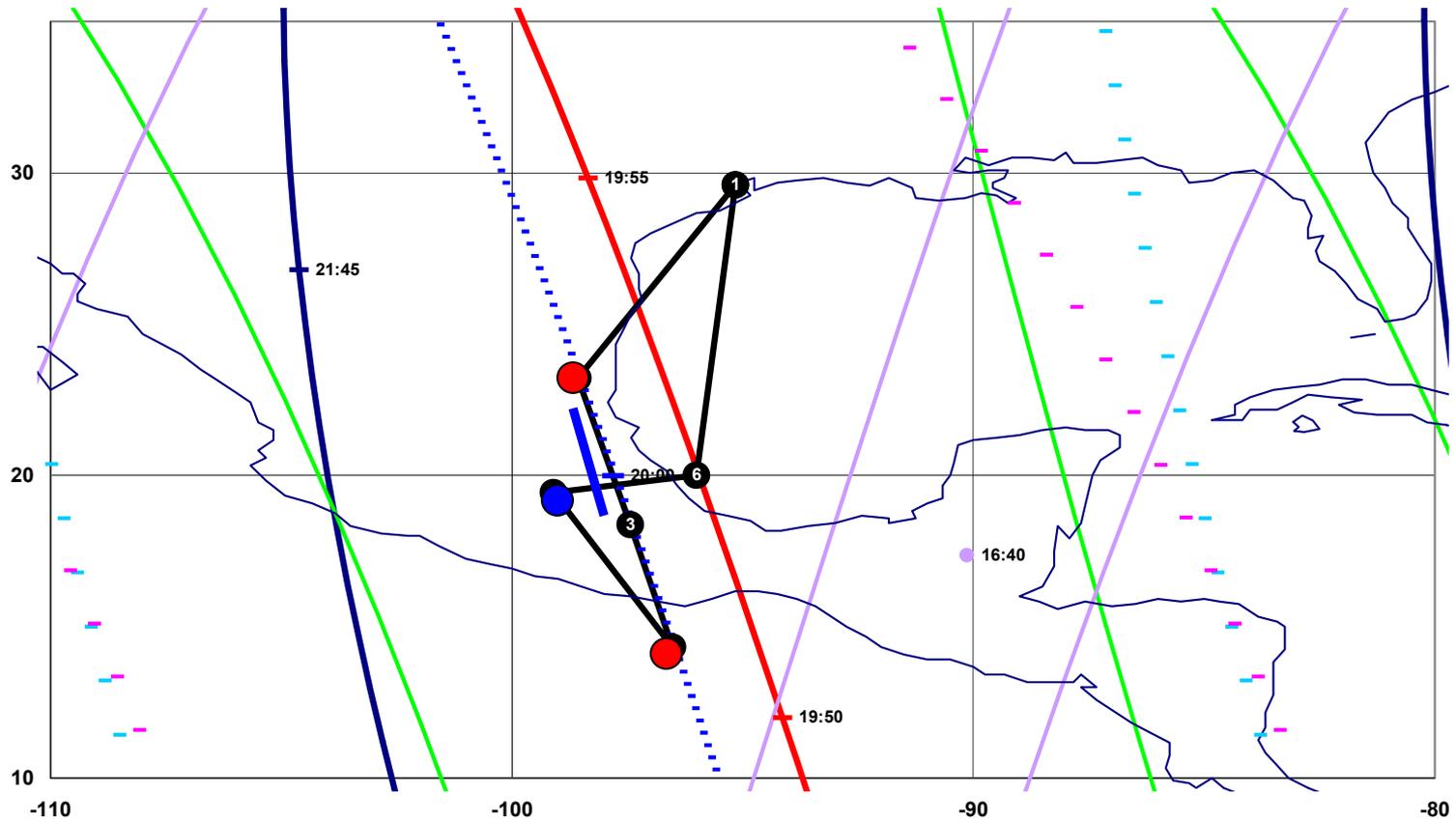
- **NASA HQ perspective (Doddridge)**
- **Overview of activities & status (Singh)**
 - **DC-8/Satellite/C-130/G1/J-31 status**
 - **DC-8 plans**
- **Met overview (Fuelberg)**
- **Flight planning considerations (Jacob/Crawford)**
- **Brief science presentations (5-8 minutes)**
 - **DC-8 measurements (Sachse/CO-CH4)**
 - **DC-8 measurements (Browell/Lidar)**
 - **Model products (Chatfield)**

INTEX-B/DC-8 Status to date (3/14/06)

- **2 test flights (7.4 hrs) + 4 Science flights (29.7 hrs)**
- **Inter-comparison with the C-130**
- **Sampling of MC outflow over the Gulf**
- **Sampling of near source MC pollution and T0-T1-T2 over flights**
- **Multiple validations of satellite instruments (OMI, TES, AIRS); useful validation data for MLS & SCIA**
- **Quasi-lagrangian sampling in concert with C-130**
- **HIRDLS validation (night)**
- **Additional inter-comparisons (?)**
- **MC near source sampling on week day**

DC-8 Flight Plans

- **Friday (3/10):** C-130 MC near source characterization
- **Saturday (3/11):** DC-8 mission
 - Outflow from MC in the north easterly direction
 - Near source (boundary layer) sampling of MC
- **Sunday (3/12):** DC-8 mission with C-130
 - MC outflow
 - Near source (boundary layer) sampling of MC
 - Satellite validation (TES/OMI)
 - C-130 Inter-comparison
- **Thursday (3/16):** DC-8 mission
 - MC outflow
 - Near source (boundary layer) sampling of MC
 - Satellite validation (TES/OMI)
 - J-31/MISR coordination
- **Friday (3/17):** likely mission -TBD



Flight 6: 12 March 2006
Takeoff: 1115 hrs



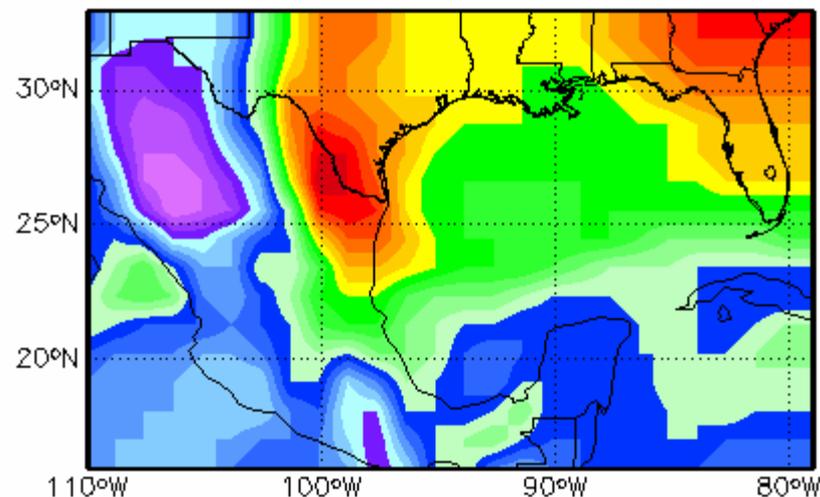
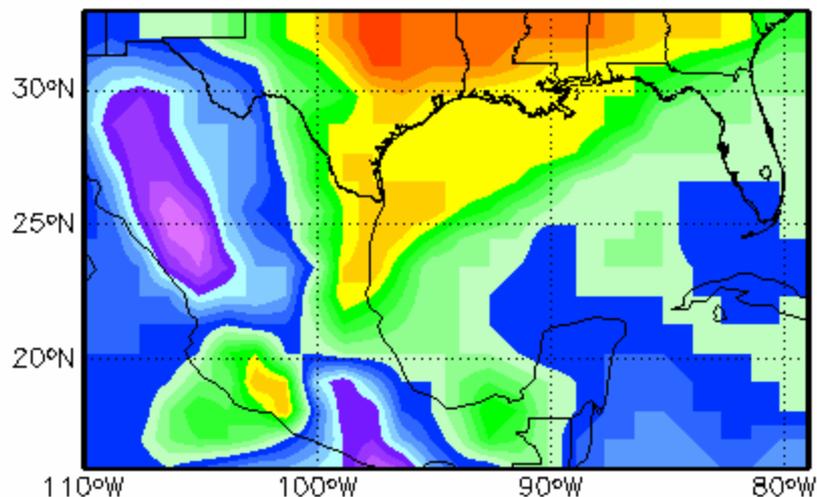
Tues 3/14 (18Z)

CO columns 2006C

GMAO CO Columns

Wed 3/15 (18Z)

umns 20060315 18 GMT

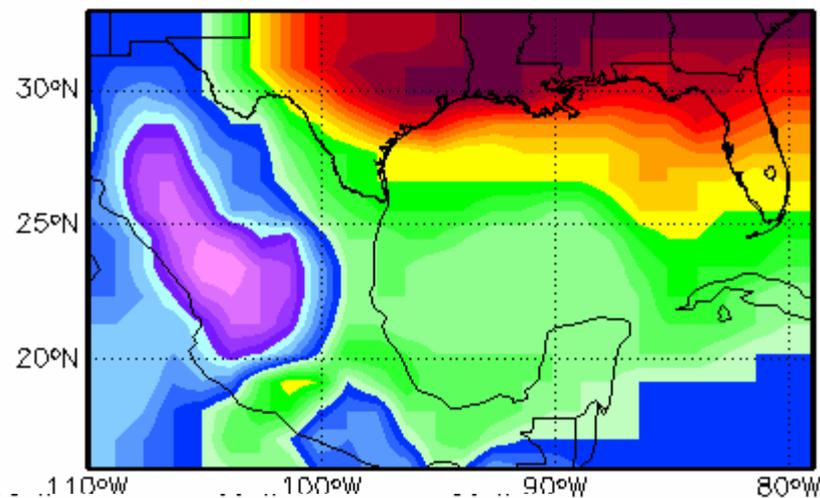
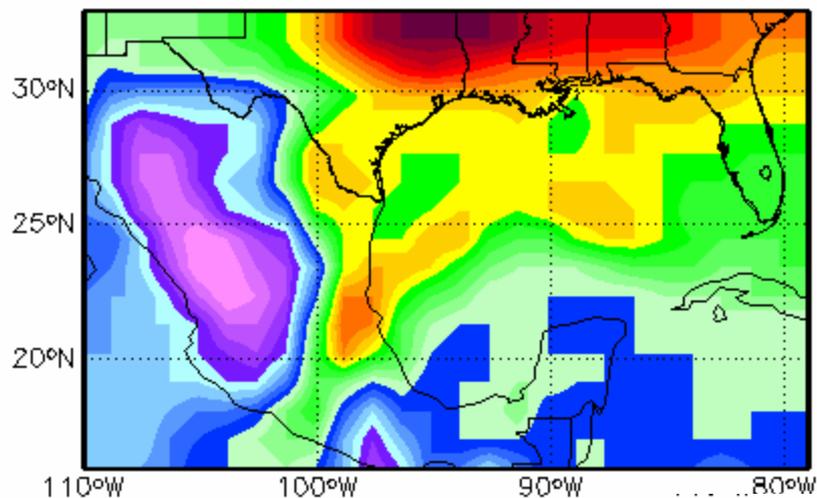


Thurs 3/16 (18Z)

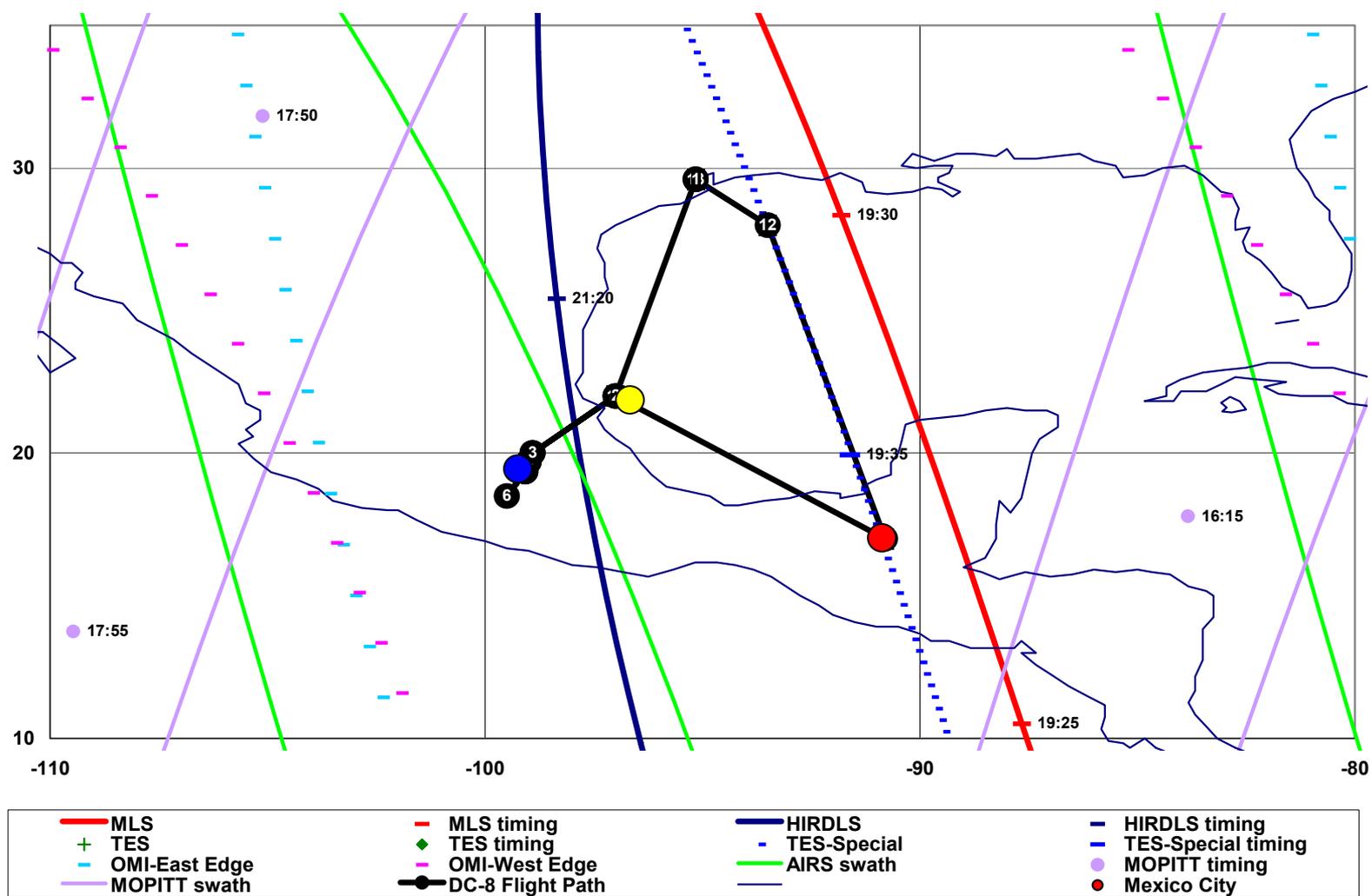
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Fri 3/16 (18Z)

CO columns 20060317 18 GMT



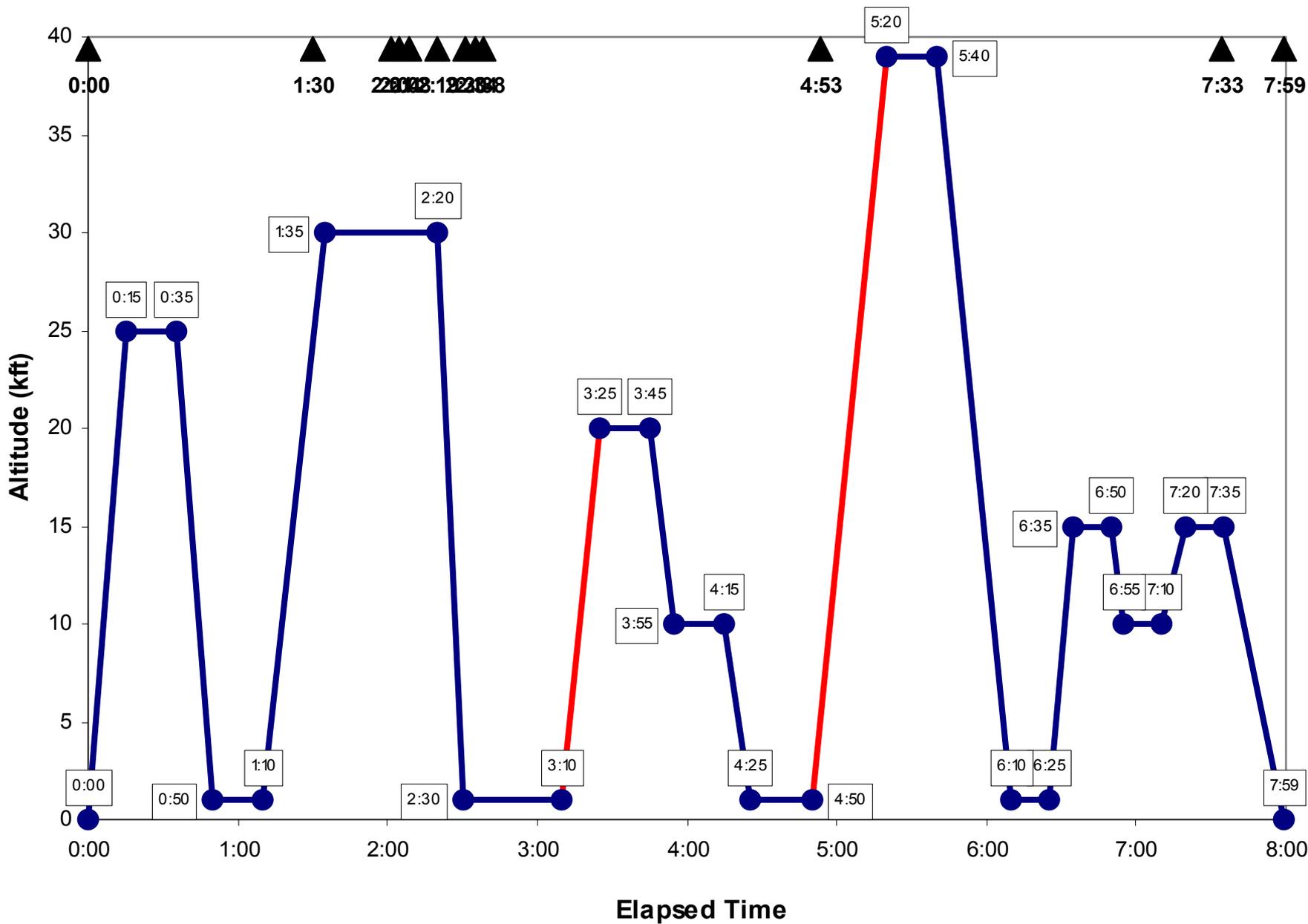
0.70 1.00 1.30 1.60 [10^{18} molec/cm²]



Objectives:

- MC outflow (weekday)
- Near source sampling of MC pollution
- Satellite validation (TES/OMI)
- J-31/MISR coordination

Flight 7: 16 March 2006
 Takeoff: 0900 hrs
 Flight time: 8 hours



Note: In-Progress profiling in **Blue**; Spirals in **Red**; Way points annotated with triangles (?).