

Science Questions

- What is dust influence on cloud microphysics and dynamics ?
- What is the direct effect of dust on radiative transfer?
- How do MCS evolve from continental to maritime regime?
- Do MCS undergo transition from continental to maritime regime?
- Can changes in boundary layer optical depth be noted with the changes in aerosol compositions?

8/15/2005



8/16/2005



8/17/2005



8/18/2005



8/19/2005



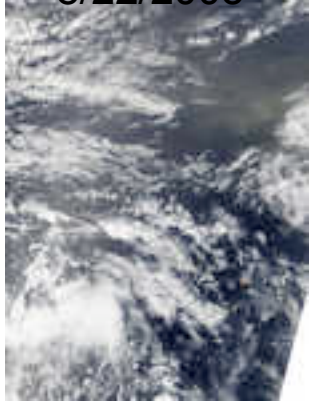
8/20/2005



8/21/2005



8/22/2005



8/23/2005



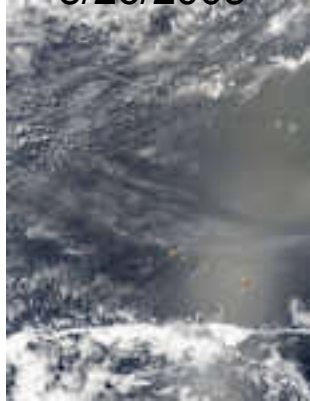
8/24/2005



8/25/2005



8/26/2005



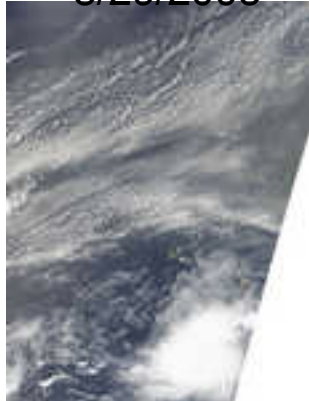
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8/28/2005



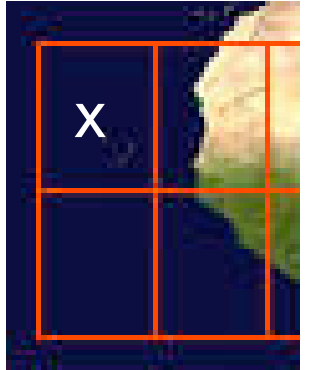
8/29/2005



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8/31/2005



9/1/2005



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9/3/2005



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9/5/2005



9/6/2005



9/7/2005



9/8/2005



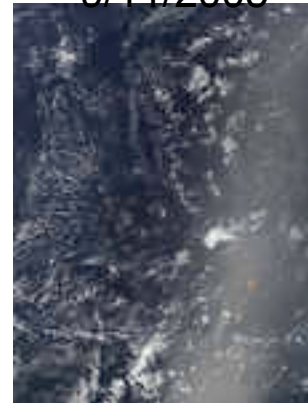
9/9/2005



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9/11/2005



9/12/2005



9/13/2005



9/14/2005



9/15/2005



Terra
MODIS
True
Color
RGB

8/15/2005



8/16/2005



8/17/2005



8/18/2005



8/19/2005



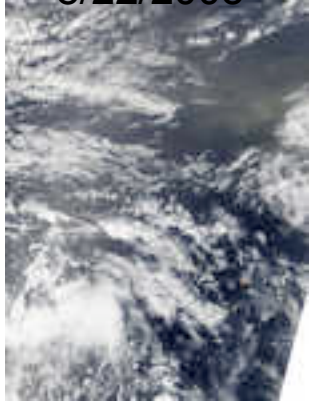
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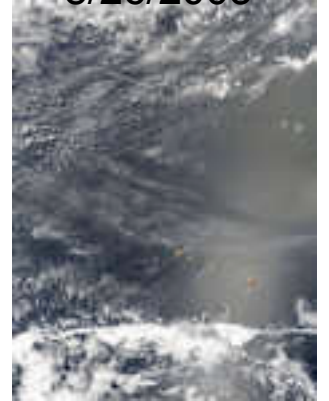
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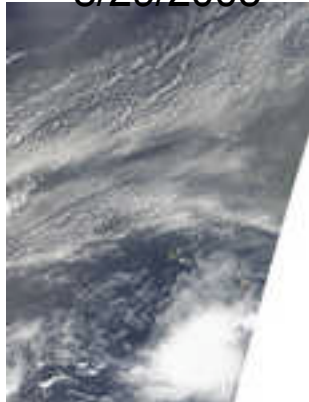
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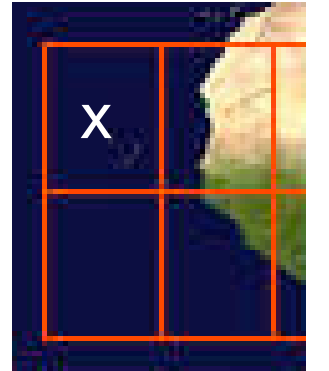
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9/3/2005



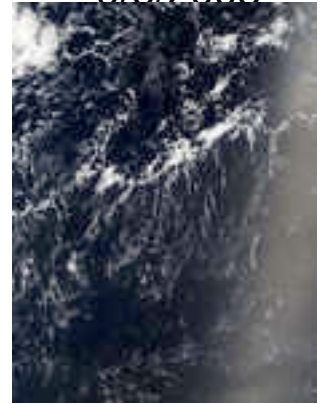
9/4/2005



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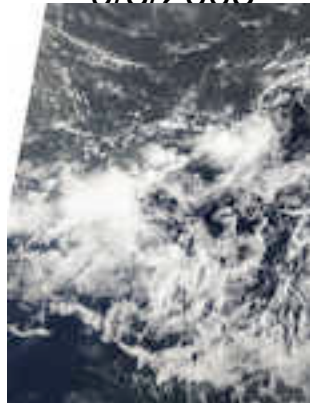
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9/14/2005

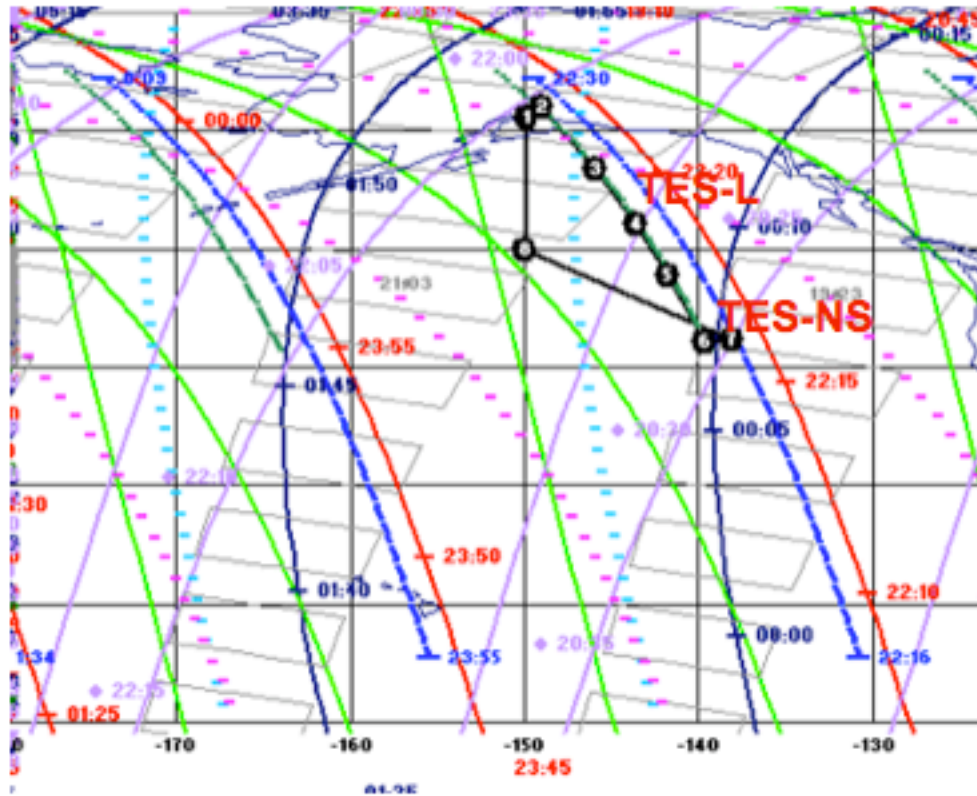


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MODIS
True
Color
RGB

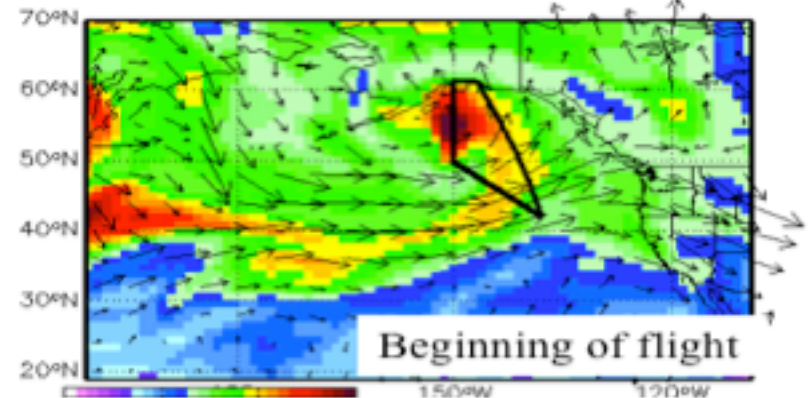
Flight plan Tuesday 05/09/06



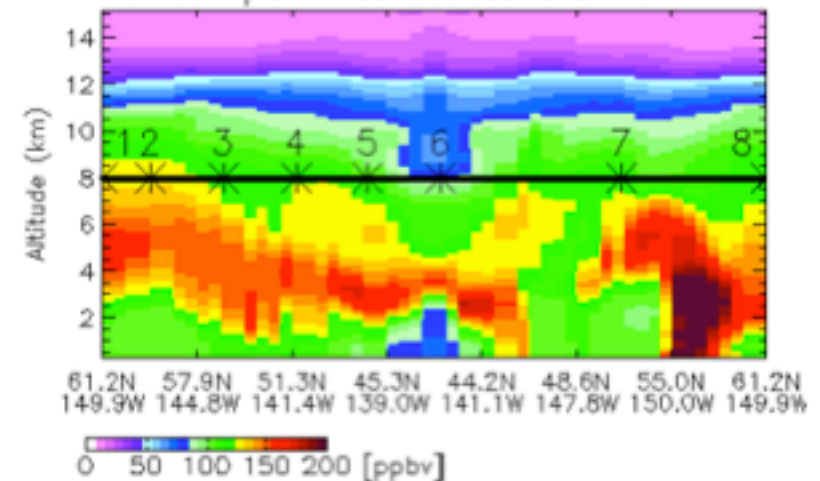
- Asian pollution (points 8-1; 2-3)
- TES-Limb (points 3-6)
- TES-Nadir (spiral at point 7)

GMAO

Asian CO columns 20060509 20 GMT



Curtain plot - CO 20060509 20-04 GMT

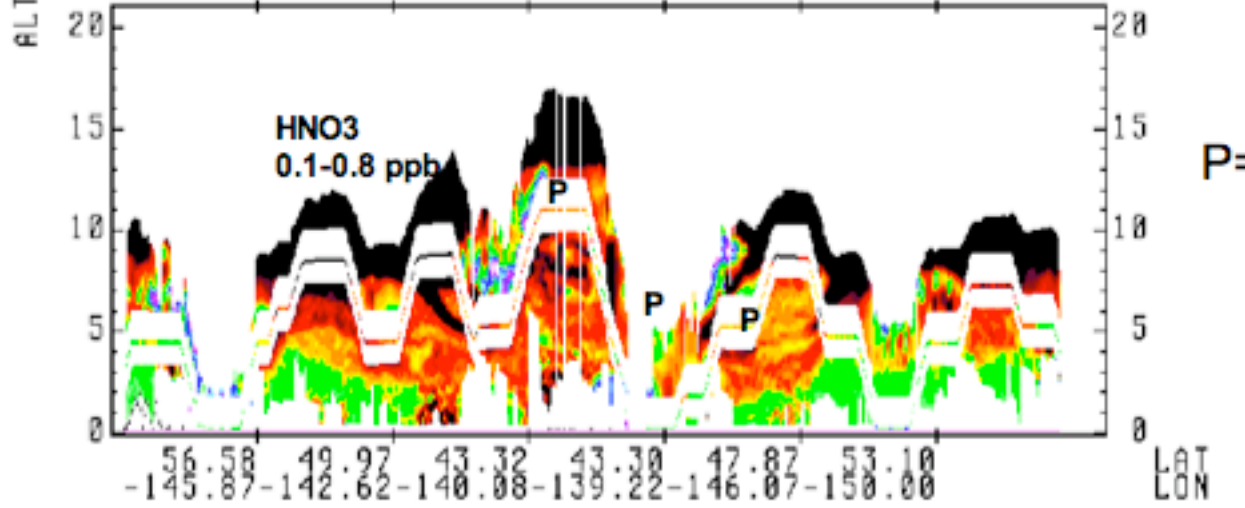
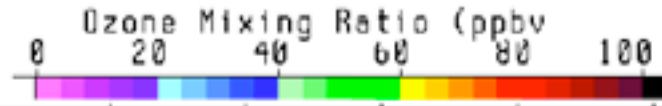
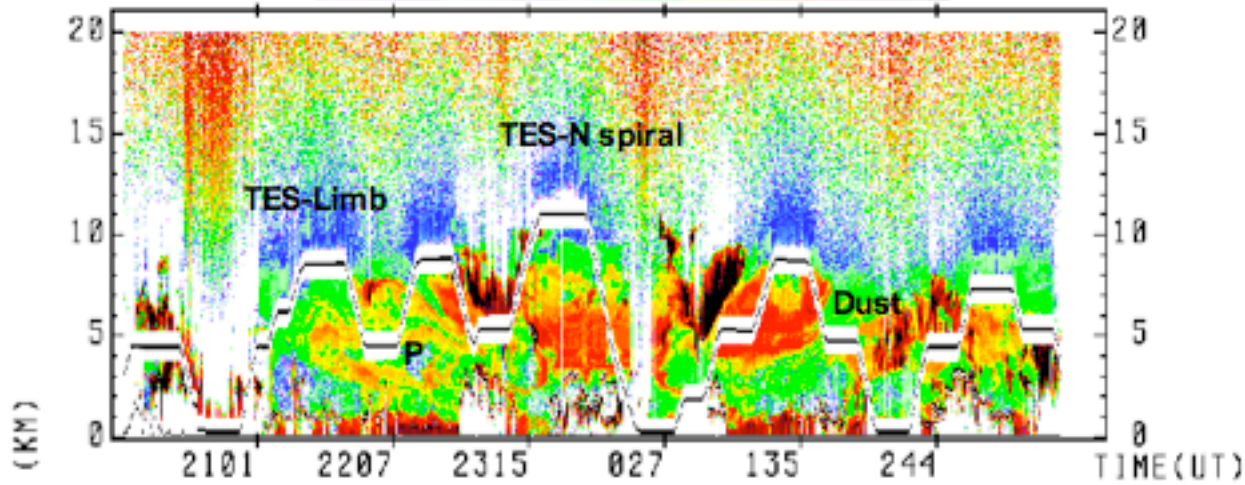


Take off time: 11:45 LT
Flight time: 9 hrs

INTEX-B
Flight 17

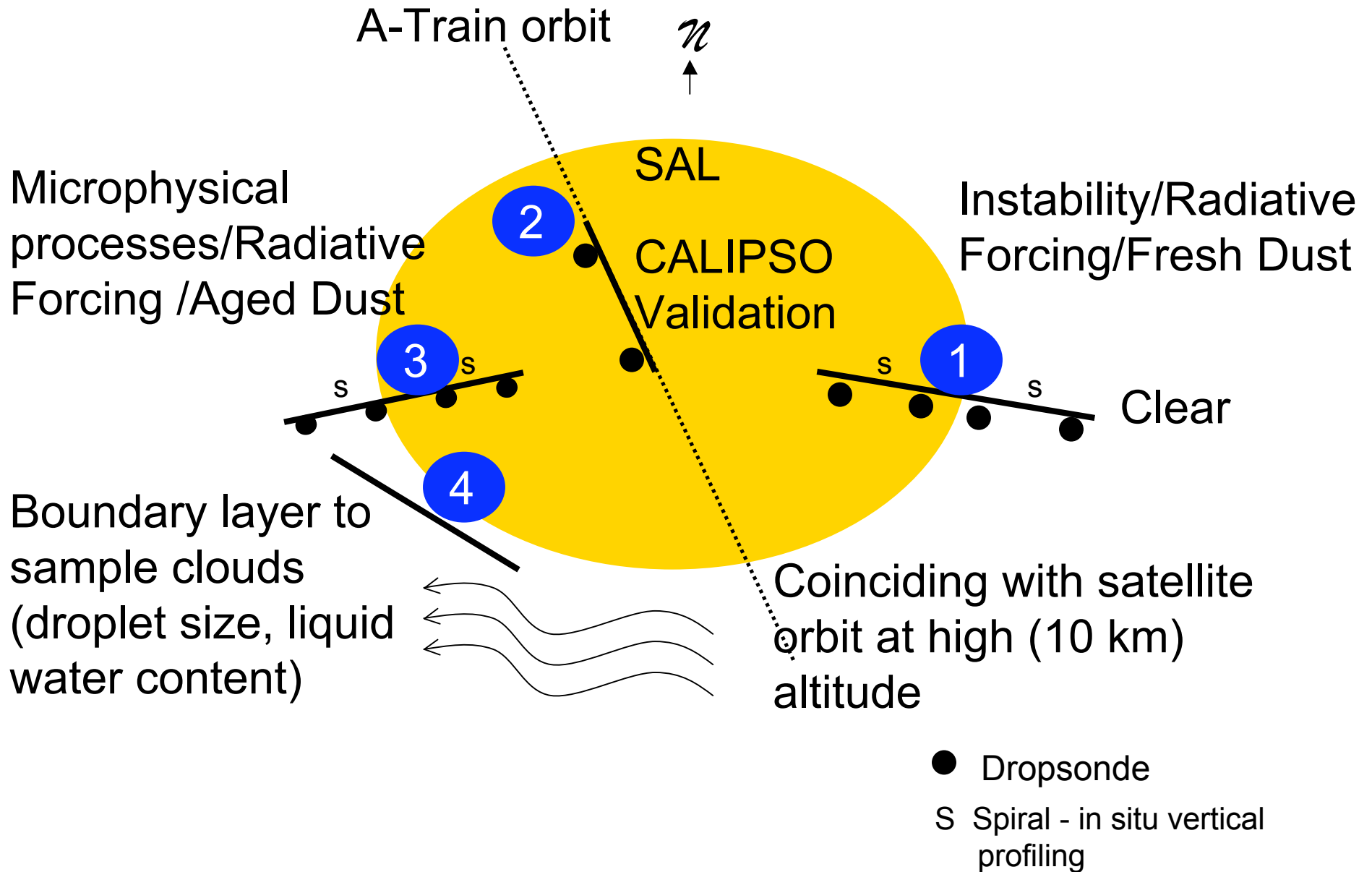
Alaska Local 3: TES Limb & TES Nadir
Aerosol Scattering Ratio (1864)

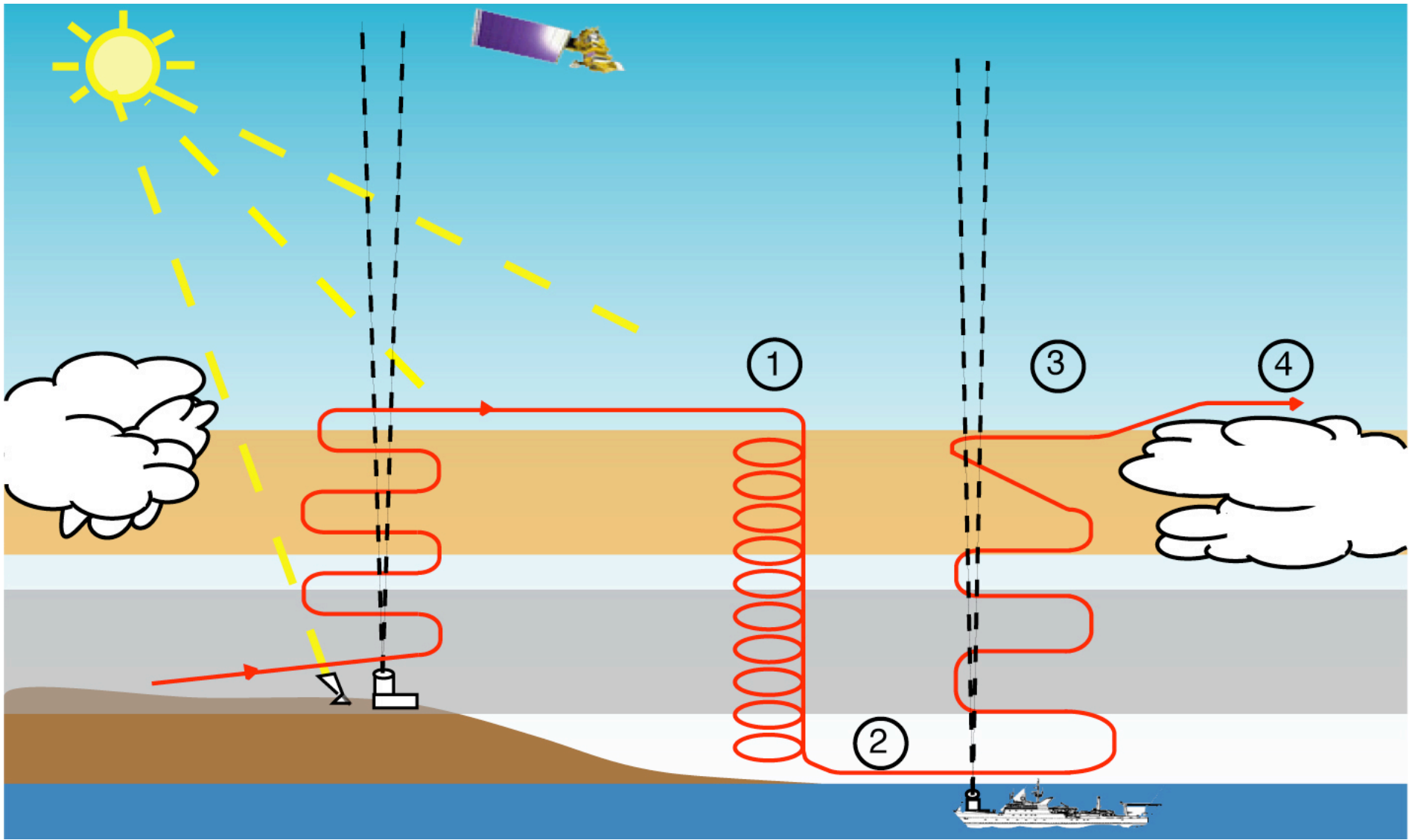
05- 9-86



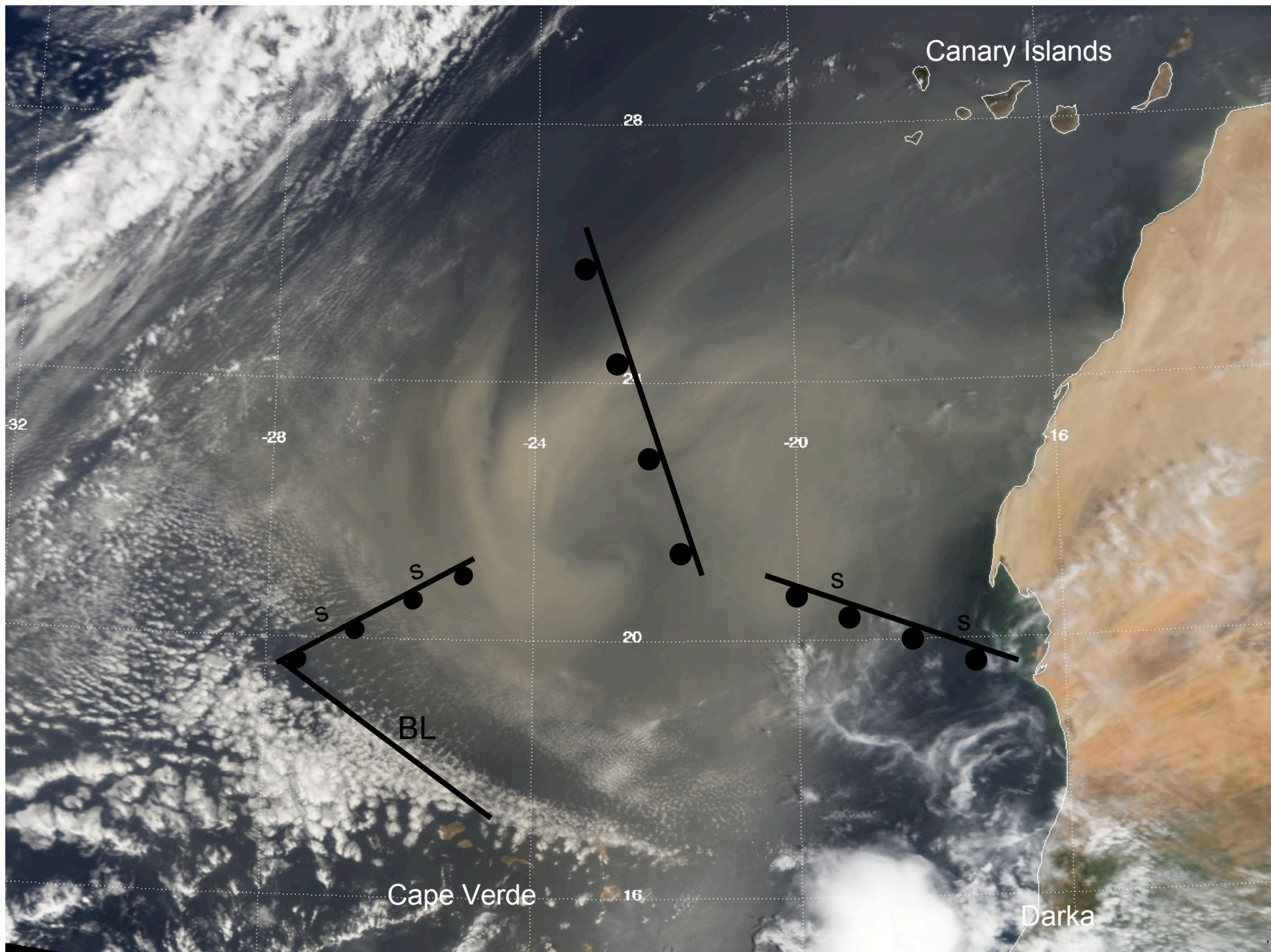
Courtesy: Ed Browell

Under DC-8 Permitted Condition: Ideal Flight Leg

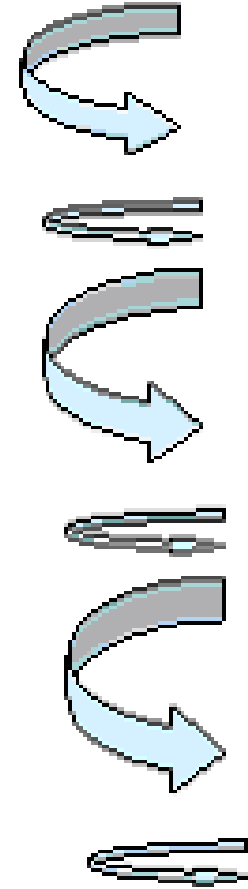
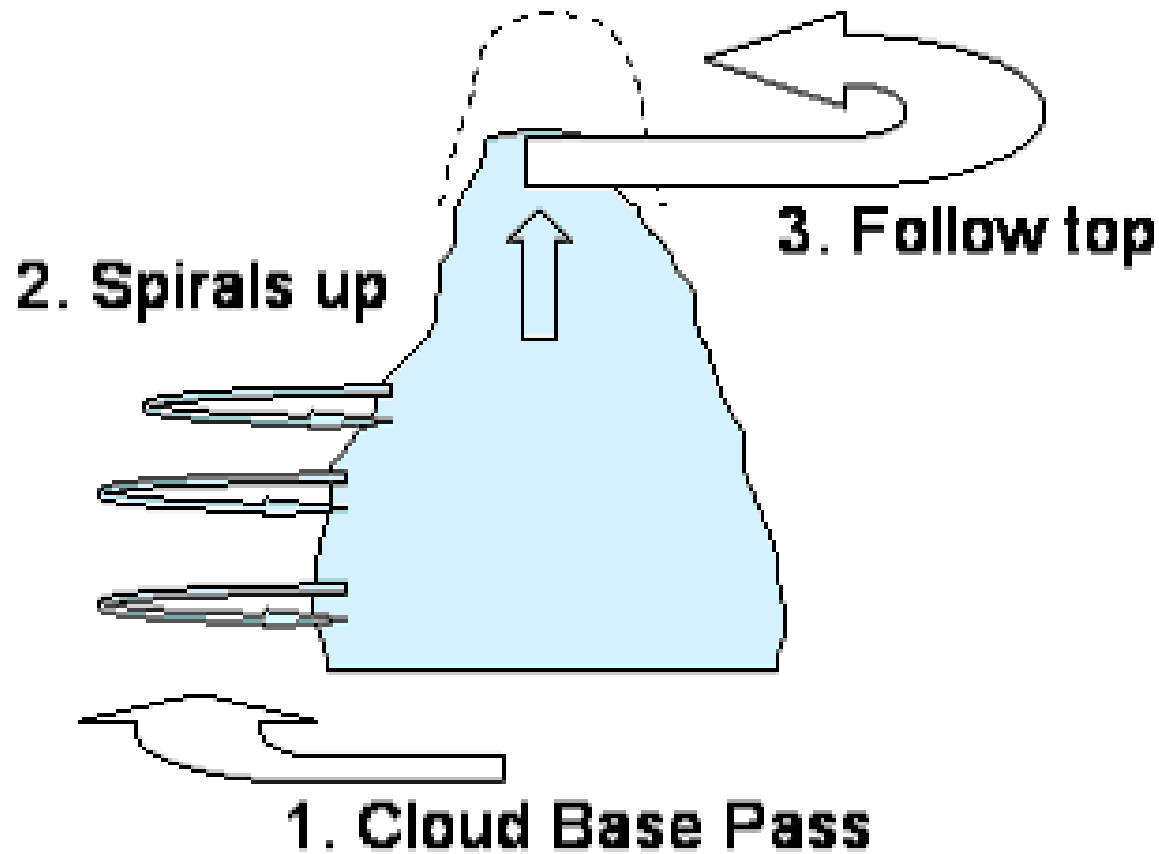




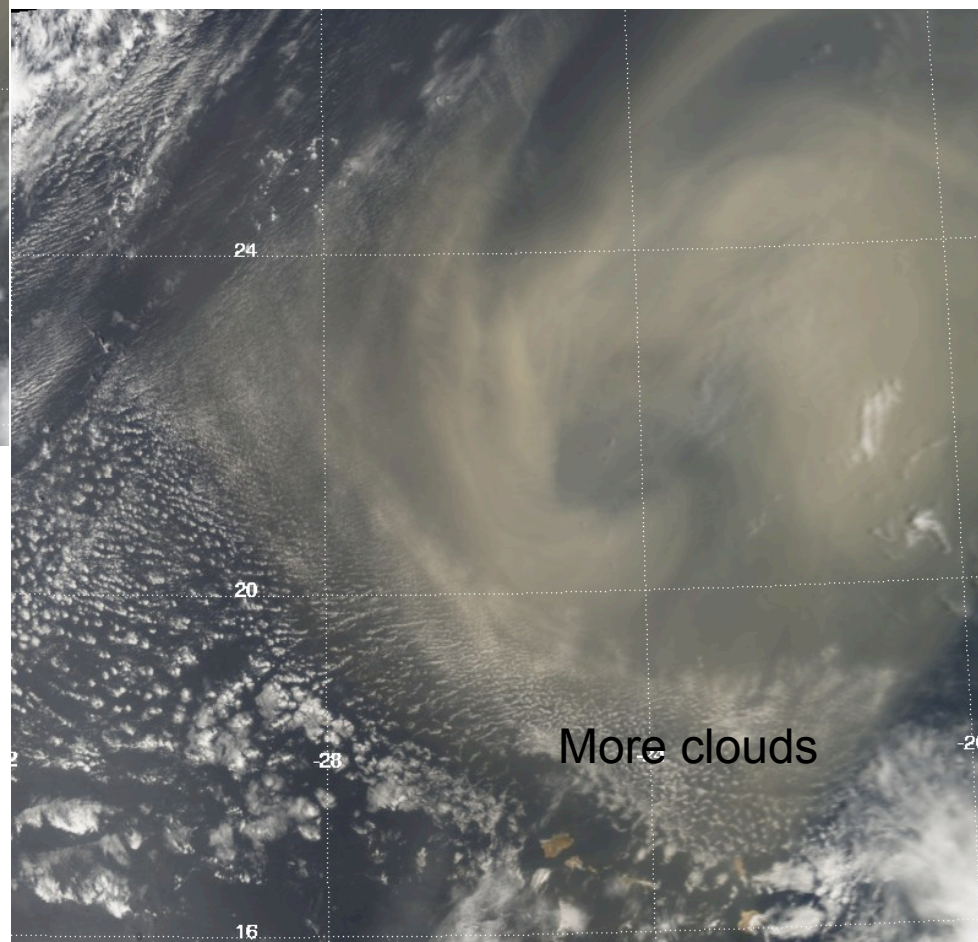
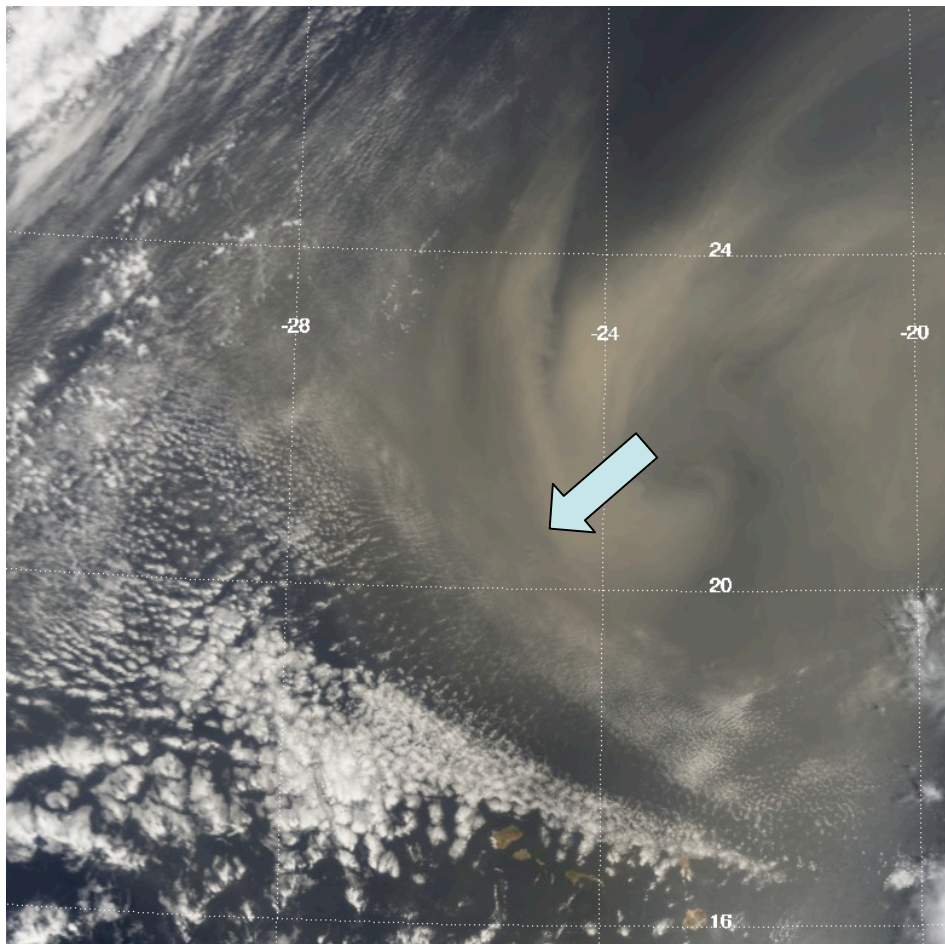
(1) Survey Vertical Profile. (2) Minimum-Altitude Transect. (3) Parking Garage. (4) Above-Cloud Transect.



4. Aerosol Sampling Descent



Terra MODIS 10:30 a.m.



Aqua MODIS 1:30 p.m.