Synopsis: ASTER/TERRA overpass and drizzle cells at 127 W, 39 N

Weather: Persisting northerly flow for last 48 hr. Stratocumulus.

1715 – leak check. Different procedure today for CCN. Leak check at lower supersaturation (0.8%), running CCN in diagnostic mode during climb out.

1812 – ferry at 7000 ft. The climb out was good for all aerosol (except CCN) and thermodynamics

1815 – haze layer ahead, one half hour later we did not see it (still heading west). S=1.6% on CCN

1830 – descent sounding, droplet concentration 30 cm-3, 2DC to as large as 10 L-1

1843 (1) - crosswind leg at 120 ft agl, sea state = very few white caps.

1852 (2) – 1000 ft agl, some drizzle

1904 (3) – above cloud, there is evidence of a particle conc. Enhancement here (PCASP and CPCs), but this may be the contrast between MBL (prior) and above-cloud aerosol. Lukens says that the CO2 is enhanced.

1911 (4) – above cloud, dwelling for satellite

1915 (5) – still above cloud, we are approaching the westward extent of the box that we need to stay in to be visible by the satellite.

1923 – reconfigured WCR to dual side / dual down. Descending to 4900 ft

1926 (1) – first leg advecting with the wind (earlier) we were on a wind-relative track for the satellite

1938 (2) – back to pointer

1940 – reset pointer

1943 (3) – descending to 3000 ft, WCR now DD/U, near cloud base

1955 (4) – 1000 ft aerosol leg

2001 – climbing to do zig/zag leg

2014 – end zig/zag leg
2021 (1) – above-cloud
2025 (2) – again
~2030 (3) – down to 4.5 kft, DD/U on WCR
2035 (4) – repeat at 4.5 kft
2041 (5) – 90/270 turn, 4000 ft
2047 (6) – roset to 4000 ft
~2050 – 0.4, 0.8, 1.6, 0.8, 0.4 % supersaturation at 1000 ft, aerosol run
2100 – climbing to talk with center
2108 – cabin equalized with ambient pressure
2120 – crossed behind ship steaming south, saw the plume on PCASP, CPC, UFN