Synopsis – coordination with ASTER. The overpass is SW of Arcata (over ocean). Snider (second-seat) is suffering from a head cold.

1755 – Engine run up. The Gast pump is off, UFCPC -11 cm-3, CPC -2 cm-3
1758 – SW bound from Arcata airport
1805 – Aerosol layer observed during climb out, PCASP is greater than 100 cm-3, values as large as 300 cm-3
1812 – no more haze layer ahead of us now, still tracking SW
1820 to 1828 – UFCPC enhancement is observed
1844 – UFCPC enhancement decreasing
1847 – recently crossed into the ASTER region, starting spiral descent into a hole in the cloud field. The UFCPC, and CPC, increased soon after start of the spiral descent. Concluded that this increase was not associated with sampling; probably be due to the vertical and horizontal layering of the aerosol field.
1904 – PCASP concentrations decreased near cloud top, at about 2200 ft, cloud base near 900 ft
1911 – start of zig-zag
1916 – zig-zag ascent/descent rates at 500 ft/min
1916 – mark pointer
1937 – in-cloud pass
1942 – passing the pointer point, CCN being set for the pending below-cloud pass 0.4, 0.8, 1.6%
1944 – descending for sub-cloud pass
1950 – taking pictures, at 500 ft agl, ppt
1953 – ppt on wind shield, no apparent effect on CPC signal, FLWC was flat-lined

Seastate – few white caps

2000 – ascent out of MBL, PCASP down to ~5 cm-3, CPC and UFCPC enhanced near MBL/FT interface
2004 – S=1.6%
2008 – PCASP enhancement; can see haze layer to the NE now that we are headed for Medford OR
2002 – PCASP is variable, 200 to 50 cm-3, CPC and UFCPC are constant. This is interesting, could we be in a region that the haze aerosol is mixing across?
2039 – Crossing coast, UFCPC increasing
2049 – PCASP increasing, then decreasing as we descend into Medford
2101 - Landing