

20060531 Fagerstrom, Rahn, French, Snider

Synopsis: Check of PVM, aerosol legs, Buoy check (Did not make it to the buoy)

Weather: Wind shift to southerly at Arcata in am, NWS-WSR shows approaching deep system, precipitation at about 50 mile off the coast

1525 – Leak check of aerosol system, CCN at 0.8%

1530 – vacuum cleaner on

1536 – filter on inlet

1538 – moved baseline of CCN up 1 V, CPC = -1 cm⁻³, UFN = -10 cm⁻³ (both values from data system)

1556 – Run up

1600 – Taxi, TRF = 17; AERITMP = 24; TROSE = 16 C

1608 – S=1.6%

1610 – climb out, put CCN in 5/4 (diagnostic mode), it started at +7 V

1615 – CCN VDET now at -6 V, starting operation

1620 – in cloud

1633 – FLWC showing no LWC here, there is ppt

1637 – Very (!) low PCASP concentration, ppt on wind shield, CPC ~ 200 cm⁻³, UFN ~ 2000 cm⁻³

1642 – CPC now comparable to UFN, head E

1647 – Return to the W, ppt on wind shield, CCN to 2.0%

1656 – WCR shows ppt above and below, heavier below

1702 – descending into ppt-free air, UFN decreasing

1707 – Water to CCN, there were only 2 screens holding the top plate on, S=1.6%

1722 – ppt on wind shield

1730 – a few minutes of data in clear (ppt-free air close to Arcata), aerosol conc. Typical (PCASP 200, CPC 200, UFN 300)

1738 – power down