

20060602

Fagerstrom, Parish, French, Snider

1920 (approximate) – leak check at $S=0.8\%$
1951 – to end of runway
1956 – TO
2001 – below middeck, PCASP 0 cm^{-3}
2005 – starting CCN at $S=1.6\%$
2010 – above middeck (steady climb out)
2020 – $S=2\%$
2046 – 7 point sequence, 0.2, 0.4, 0.8, 1.6%
2100 – aerosol and CCN maintaining their marine character even at this lower altitude, no LWC or ppt
2106 – cloud now, FLWC is a good variable for cloud detection in lieu of PVM
2117 – UFN 200, CPC 140 PCASP 10 cm^{-3}
2121 – $S=1.6\%$, Arcata is 150 miles away from here, I am surprised about the marine (clean) character of the aerosol.
2133 – PCASP variable at 35 cm^{-3} , what causes that, mixing from below?
2141 – water to CCN, increased VDET, compensating for earlier decrease, back to 1.6%
2145 – UFN event, no ppt or LWC or first look, but then there may have been LWC. It depends on how the analog variable display updates
2150 – start upward sounding
2159 – we have a head wind, to $S=2\%$
2209 – to $S=1.6\%$
2219 – to $S=2.0\%$
2222 – Arcata reports $T/T_{dp} = 15/14$ (later, after landing I observe 16/14 for trf and tdp)
2231 – wetted top pad, $S=2\%$
2238- last 30 min (approximate) UFN enhanced relative to CPC, 600 versus 400.
2240-interesting transition into cloud top, no 2DC conc, CCN at 2% decreases significantly, UFN and CPC are enhanced
2245 – PCASP conc = 0 cm^{-3} for several seconds
2247 – UFN enhancements, no indication of LWC or 2DC conc., PCASP is near zero
2250 – same observation as at 2247, between two cloud layers