

CVO EVENTS FOR 990809 - MONDAY.

Light N winds at the coast. Band of low clouds.

Phil Barbour sent sounding. Slight inversion at 1 km +13 to +15 C.

Trying to strap in Gerber laptop - needs better arrangement. 5-min file limit ???

Flight: Hoshor, Vali, Gordon. N part of W93 and along the coast. 9 am T/O.

Transit to area at 14000'. Solid cld deck below, clear further away from coast, as evident in sat. img.

System restarted to eliminate frequent ARINC faults.

Descend to 10000' by NE corner of W93, then work from that point S.

With N -> S winds (005 to 015 generally) work along N-S ground coordinates, except for racetracks which were done with fixed headings and 180 turns (45 bank gives 1.8 km diameter) to reverse.

Cloud top right around 350 m, sloping upward away from shore. Cloud base at 130 – 160 m.

LWC up to 0.5 g m^{-3} , droplet conc. To 140 cm^{-3} . Re around 8 μm .

Drizzle in all parts of cld. Drops to 200 μm .

Radar echoes to -10 dBZ.

CCN run below cld base – twice.

E-W runs to cross-section windfield: 700', 1500', 3000' from 5 to 30 mi offshore. Max winds 8 ms^{-1} .

High-rate PVM not recorded (cockpit error), but low-rate OK. All other sensors OK.

Supporting data – soundings at NPT every 2 h (Phil Barbour).

Imgs show band of St by coast moving S; flight just about as good a location as could be. Clearing moved into flight area by the end of the flight according to imgs but wasn't evident to us visually.

Data processing – (437 MB) transfer from onboard disk to laptop, then to 'falcon'. Processing routine downloaded from 'felis' via motel link. Radar data (< 1 GB) quick look done, tape to LAR tomorrow. Power monitor not run.

Post-flight: PVM calib shows no drift (no contamination). Test of PVM high-rate recording tested OK.

Exabyte sending replacement disk drives to arrive tomorrow.