

Daily Report for Sun Oct 6 - IOP1

Daily Report for Sunday October 6

IOP1 - finally good conditions for an IOP. Fine and cool with light northerlies during the day, becoming calm this evening.

IOP started with a sounding at 4pm (22UT), and soundings approx every 3 hours afterwards. Rapid cooling at ground level (5C late evening) but warm aloft (wind profiler RASS showing 15C at 500m. Winds switched to south-westerly at ground level, but aloft the wind profiler and lidar both show easterlies.

Tethersondes operating in crater and at ISFS base. Nihanth is operating our lidar in mainly RHI scans across crater with occasional PPIs. Sebastian is in crater operating UU lidar in coordinated scans.

Some network difficulties at ISFS is affecting sounding operations because of limited connectivity between DSM based surface met there and GAUS DM and sounding laptop, so some soundings may not have surface met so may be delayed in posting to web.

Generator down to 1/4 tank so partly refilled this evening (to 1/3 tank) to ensure we get through to tomorrow afternoon (when generator due to be replaced).

Wind profiler up & down this afternoon as adjustments were made to parameters (eg, blanking, HPA, etc) to get as low measurements as possible. Both winds and RASS now often (although not always) reporting down to 200 meters in standard mode. RASS frequency also increased to a 5-minute run every quarter hour. Charlie made adjustments to sound generator; now resetting every 30 seconds.

Kate arrived this afternoon to assist ISS operations.