Debris Flow-2007/2008 Event Log
IOP-4

Lat: 33.94933 N Lon: -118.44217 W Alt: 43 m Truck HD: 107 deg

Date/Time SR1 ready for operation: 6 January 2008 1700 UTC

Radar Calibration Offset = 0.0 dB

Note taker: David Jorgensen (NSSL) and SV (NSSL)

Time (UTC)	Event
1700	Arrived on site and brought up radar – re-leveled truck
1715	Begin data collection
2000	Storms are south and east of LAX
	Not much activity over burn areas between 1800 and 2000
2130	Heavy rain echoes over the water to the SW moving South range ~ 80-100 km Azm between 180 and 240 deg
2133	More light rain echoes moving in from the west at range ~100 km – nothing over burn areas
2200	Adjusted visky display to increase scale to see rain to south
2314	Echo to south is decreasing in intensity as it moves eastwared closer to island
2316	Rain echoes moving in range to the west – some overland moving toward burn areas – max dbz only about 30
2336	More intense echoes along coast to the west max dbx ~35
2344	Light rain now falling at site
0035	Echoes to 40 dbz now due west 100 km moving to the east and toward the burn areas
0040	Light rain again falling at site
0120	Rain near 42 dbz now over burn areas on 4.1 deg tilt
0140	Much lower bright band than IOP-3, upper tilts show “ring” of enhanced reflectivity within about 5 km of the radar
0216	Doppler “snake” or Vr=0 in weather being cut out by the ground clutter filter is a problem within about 15 km looking to the west (south wind apparently) – will try 1 volume scan with a weaker notch.
0225	The 0220 scan has the Doppler filter set to 2. Some additional specs of ground clutter along the coast were evident, and the Doppler snake was reduced to within about 10 km of the radar. Will run with that clutter filter setting and see how the data look.
0239	Upon very close examination of the reflectivity over the burn area mountains I could see a few specs of high dBZ leaking through the ground clutter filter. That would contaminate the rainfall estimates so I returned to Filter Dop to 3. Only the 0225 and 0230 were at Filter Dop=2
0254	Crew change – Steve Vasiloff is the operator
0300	Zero Vr off coast south of Malibu is causing removal of reflectivity data beyond the zero isodop

0305	Winds seem to be increasing again (still close to zero) filling in the blank area off the coast
0320	Data removal increasing again but not affecting burn areas
0400	Data are filled in nicely
0452	Nor much change in the weather
0502	Few speckles of red over burn areas 53-55 dBZ; elev=4.0
0512	Starting to see some breaks in the western edge of precip; breaks approaching burns
0515ish	Noticed cold air coming in the drivers window; must be fropa; landing pattern reversed
0540	Heaviest rain well to the east now. A few areas of 35 dBZ remain to the west and south of burns
0602	40 dBZ blob passing over burns
0640	Crew change – Dave Jorgensen is back
0645	Small convective looking cells over land with max dbz to about 42. Otherwise fairly light precip with holes in it to the west
0713	Moderate cells moving over terrain from west to east
0720	Rain has ceased at the site – echoes eroding from the west – back edge of system?
0810	Echoes now virtually gone to the west, some weak echoes north of burn areas and to the east over the higher terrain about 70 km range
0816	Burn areas clear – nothing to the west – NEXRAD composites indicates rain has moved off to the east – probably will shut down at 0900 UTC
0836	Backing up data to laptop
0905	Terminating operations – shutting down