SMART-R Event Log
IOP 8 Project: Debris Flow Project

Lat: 34.200610 Lon: -118.350563 Alt: 712 ft. Truck HD: 198 deg
Date/Time SR1 ready for operation: 05 February 1515 UTC
Site: BUR Airport, Burbank CA

Note taker: David Jorgensen (NSSL)

Time (UTC)	Event
1440	Arrived on site, leveled truck. All systems up OK. Changing the script that transfers raw files over to CARC to only move the small files for transmission. The big raw files are not going to be archive on CARC, but will remain on CRVP
1510	Has taken several reboots of the RVP-8 to get it to pass the powerup diagnostics. Had to power it off to get it to pass
1515	Doing ZDRCAL. Spotty cloud echo
1520	First VCP-12 volume scan – lots of echo to the west and south. Rain has started earlier than the NAM model indicated from last nights run
1547	Shortened transmit volumes going out in about 1.5 minutes
1623	Cells passing just south of burn area
1636	Pretty strong echo at 30 km west max dbz to 55 or so
1658	45-50 dBZ cell over USGS gauges
1700	Steve V now operator
1750	IM dropped out and file transmission stopped for 20 min. Talked to Gordon and he is sending instructions for restarting push. I rebooted xcarc.
1810	Couple of 45+ dBZ cells over west part of burn; 55+ dBZ in BB over burn
1820	Took 4-5 min to send 1815
1830	Back to 2 min per file 8.6 mb
	Mod. Cells over burn
1900	2.5 min per file
	Cells over burn weakened
1915	1910 file trans ~1.5 min
1923	1915 took 3.5 min
1927	Line of mod. cells western part of burn moving SE
1947	Dave J now operator
1957	Echoes now weaker than an hour ago, small cells max dbz maybe 40 or so
2000	Heavier cells moving in from the west 60-70 km
2019	Doing as ZDRCAL as light rain is falling at the radar site
2020	Resuming VCP-12
2035	Another ZDRCAL
2119	CARC machine stopped sending files due to “connection refused” error – rebooting CARC
2200	Loop server in NWC has stopped updating – contacting Gordon – files are sending OK

2324	Another ZDRCAL since its raining now at the SR2 site
2325	Resume VCP-12
2326	Echoes much weaker now still some new cells to the west moving in
Feb. 6/0005	File transmit times have shot up to over 15 minutes per 3 MB volume. Must be high network traffic load during rush hour
0021	Rebooting CARC as the push_www process seems to be hung
0040	Very spotty weak showers to the south and west
0051	Transmission speeds are going down – less than 5 minutes now
0200	Steve V. Operator
0218	Reboot carc Gordon's instr didn't work – say could not find the file
0232	Mod small cell SE burn; few others approaching; more to SW
0300	Sometimes push.out log says rm: …. File not found
0317	Intense cells S burn
0327	Burn cells weakened
0345	6.4 deg lots of small weak cells; overall intensity down
0410	Loop skipped a scan 0405
0422	Burn mostly clear
0517	Few small mod cells w edge of burn
0540	Few weak cells over burn
0607	Band moving NE across burn
0707	Burn mostly clear
0753	Few weak cells over burn
0815	File trans failed; rebooting carc
0825	1 min file trans.
	Echoes forming SE-W
0846	Mod cells approaching burn; area filling in
0914	Few mod cells over W edge of burn
0922	Small 50 dbz cells near USGS sites
1000	Dave J. operator
1048	Big blob of echo >45 dbz approaching from SW near shore now near Malibu
1104	Lightning to SW
1109	ZDRCAK
1110	Heavy rain at site
1111	More lightning and thunder
1115	ZDRCAL
1125	Heavy rain now moving over burn area
1143	Rain tapering off at site – another line moving west to east at 40 km to the west
1206	N-S line now about 18 km to the west – back edge of this wave?
1210	Flash flood warning on that line just went out – not just for debris flows in the burn area but a general warning
1215	Reflectivity in that N-S line >55 dbz – now about 10 km to the west of radar
1222	Heavy rain again at site as line approaches – now about 10 km to the west
1235	Rebooting CARC as transmission seems to have stalled
1236	Line has arrived – heavy rain at site
1239	CARC back up and transmission resumed at ~2 min per file

1246	Line has passed through site – rain tapering off again
1300	Elevation drive fault – enabling drive button on bitex ant GUI reset the problem and scan resumed
1304	ZDRCAL
1317	Back edge of rain looks to be about 20 to the west
1346	Another EL drive off error message – fixed by “enable drives” in bitex antenna GUI
1347	Rain picking up again as back edge goes through
1407	Rain slacking off at site
1439	ZDRCAL in heavy rain
1457	Volume at 1455 was accidentally aborted when setting up for ZDRCAL
1458	ZDRCAL
1500	Moderate rain at site
1515	Rain ended at site – virtually echo free to west – almost exactly a 24 hr event
1544	Skies clearing – next wave of precip near Pt. Conception perhaps a few hours break before echoes move in again – will leave radar up and running
1806	Rebooting carc ->
	ssh_exchange_identification: Connection closed by remote host
	Overlays gone; iris operator menu gone; unix segmentation violation
	Restarted iris
	Overlays still gone
1810	Seems that smartr server is down
1851	Lat-lon corrupt restart iris did not help so rebooting rvp8
1902	Scanning again but no pull on carc so rebooting
	After reboot no files showing up in raw; rebooting again
1930	Ok but no loops yet
1940	Gordon restarting loops
1945	Strong 55+ line W edge of burn; another strong cell to west
	Large band to west
1954	Line looks stationary
2010	Dave J back as operator
2015	Interesting “train” echo setting up on the extreme west end of burn area. Line is stationary, but cells continue to develop at southern end – flood situation?
2050	Train echo finally dissipating
2057	Train echo picking up intensity again and its moved a few km to the east
2112	Noticed all the dual-pol parameters, eg ZDR, are missing – will reboot CRVP to see if that restores it
2130	Resume VCP-12 scanning and all is well with the dual-pol parameters
2144	A short but very intense line is approaching – only a few km to the west
2153	That line is turning into another train echo nearly the same place as the other one
2205	Position information is bad on the 2205 volume
2327	50 dbz cells west edge of burn
2342	55 dbz on west edge moving east slowly
2353	Multiple 50 dbz cells in a line now at west edge; appear to be weakening

Feb 7/0008	Small 45 dbz cells over USGS sites
0017	Weakening line over middle of burn; few cells over NW part
	Clear to the west
0038	Few mod cells south part of burn; few weak cells over USGS
0053	Several weak cells south central burn moving slowly ESE
0102	Few weak cells now over east part of burn
0117	Burn clear
0130	Last scan – shutting down