

Mission Scientist Report for Saturday, 25 May 2013

Submitted by larrycarey on Sat, 05/25/2013 - 10:14

Date:

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Discussion:

IFloodS was standing down during the day on Friday, 5/24/2013 due to lack of weather in the area. Crews focused on instrument maintenance and rest as needed.

NPOL is green. NPOL worked some in some sun-tracking/sun-calibration scans during the day Friday while it was relatively cloud free. Working to resolve absolute calibration issues. NASAGSFC dual-pol consistency checks and CSU comparison with disdrometers suggest that NPOL is cold (low) by roughly 2 dB. Now working the engineering side for consistency. Will put emphasis on future science checks on absolute calibration too. Today (Saturday) and next several days should provide ample precipitation for further calibration checks via consistency with dual-pol and disdrometers

NPOL fully staffed again starting 7 PM on Friday. Showers returned to the area by about 8 PM on Friday. Overnight scanning was a variety with both scanning over Turkey/Upper Cedar River Basins and coordinated RHI's with D3R along the 130 azimuth over Clear Creek Basin. All back-to-back with 360 deg rain mapping. Precipitation in domain all night Friday. By Saturday morning, stratiform precipitation became more widespread, especially to the south and east. During this time, NPOL conducted coordinated scanning with D3R along 130 azimuth. Saturday morning is a good case for horizontal variability of precipitation properties in stratiform with PPI sectors in fairly uniform precipitation coverage in the Clear Creek Basin along 130 deg with instrumented disdrometer array.

D3R is green and working rainfall event in coordination with NPOL. Focusing on 30 deg sector with RHI's during stratiform event. A new GUI interface was developed Thursday - Friday so that it is fairly easy and seamless for anyone (e.g., NPOL operator) to change D3R scans as needed.

Disdrometer calibration/maintenance work was done on Friday and everything was green at start of the overnight hours. A couple of disdrometers (SN36 and SN70) went down overnight and had to be restarted remotely at 13 UTC. Cannot login to SN25. Will visit today.

XPOL2 and XPOL4 are green. XPOL3 is operational but yellow working with 1 channel. Although board has been replaced, XPOL5 is red as working a communications issue associated with firewall at airport; should be able to resolve that after the Memorial holiday weekend.
