

2012 Technician Statistics

Total Technician Hours were 1059.19 hours

Total Technician Days were 270 Days

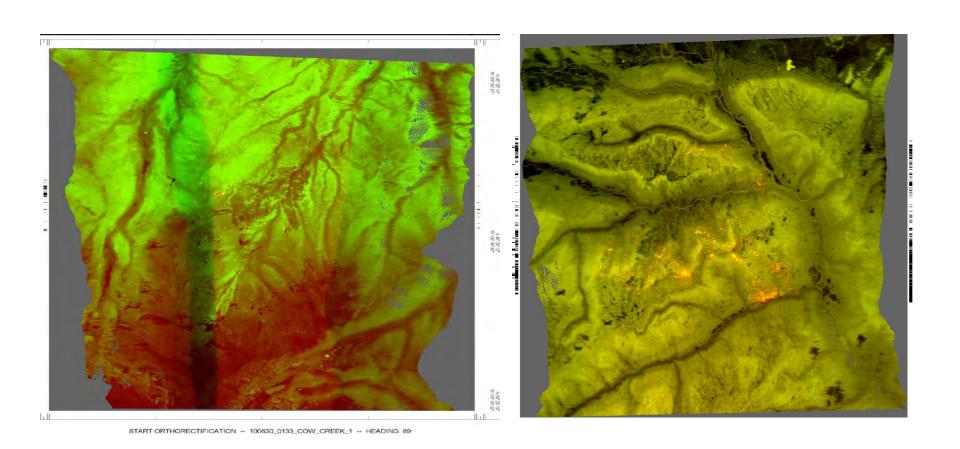
Total Technician Missions were 1426

Almost 2x more hours/missions than each of the last 5 years.

Milestones

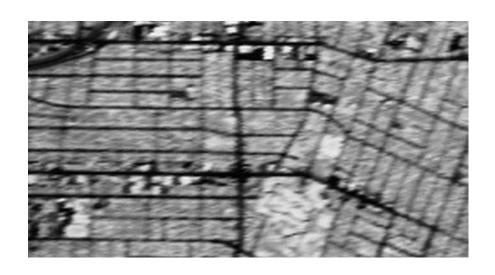
- Stabilized and cleaned up signals
 - More gain = better sensitivity, clearer image
 - Fixed issues with clamp
 - Fixed issues with zig-zag images caused by cold spike
 - developed new timing circuit and pulse shaper
 - Fixed racing stripe in color imagery
- New fire detection and curve fit calibration
 - More reliable sub-pixel heat detection

Eliminated Zig Zag artifacts & Racing stripe

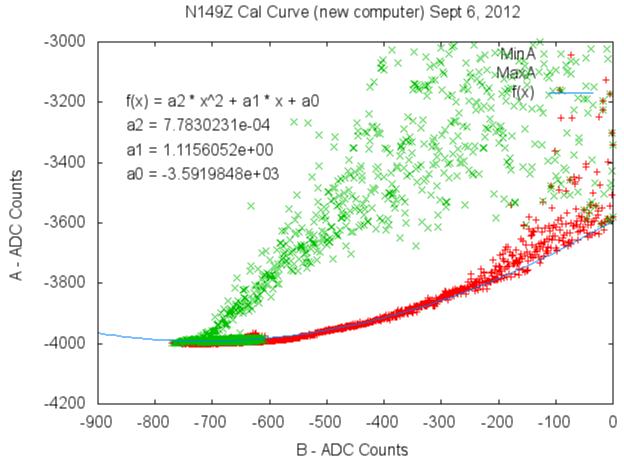


Imagery With "Zig Zag Edges"

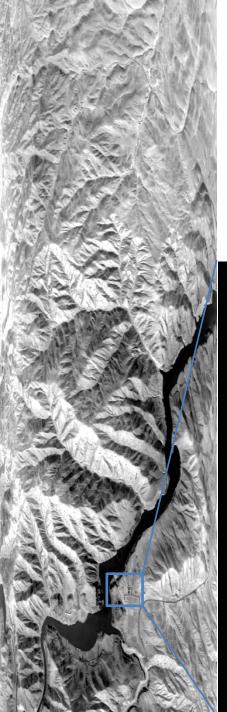
Image stabilization eliminated the "zig zag edges"







Stanley Hirsch, "Application of Infrared Scanners to Forest Fire Detection", International Remote Sensing Workshop, May 1971, Ann Arbor, MI available on NIROPS website



Incident: Pot test (Run 2)

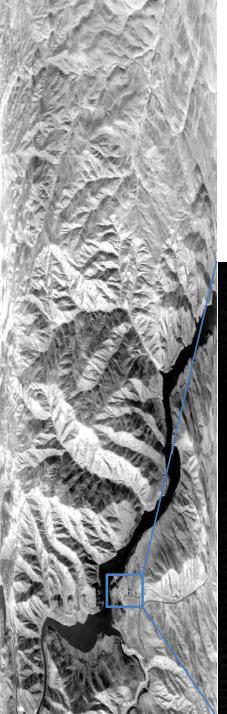
Location: Boise Idaho Date: October 28, 2011

Altitude: 13500 ft MSL Speed: 270 knots

Width: 6.1 miles (5.3 nautical miles) Length: 8.6 miles (7.5 nautical miles)

Scan time: 1.6 minutes Coverage: 30k – 35k Acres





Incident: Pot test (Run 2)

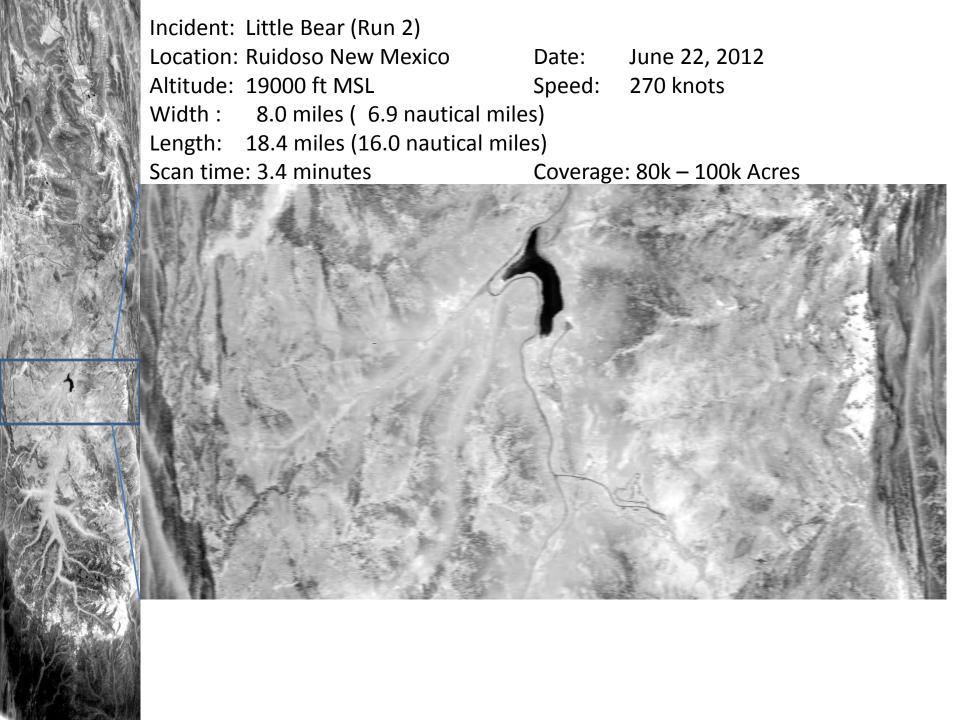
Location: Boise Idaho Date: October 28, 2011

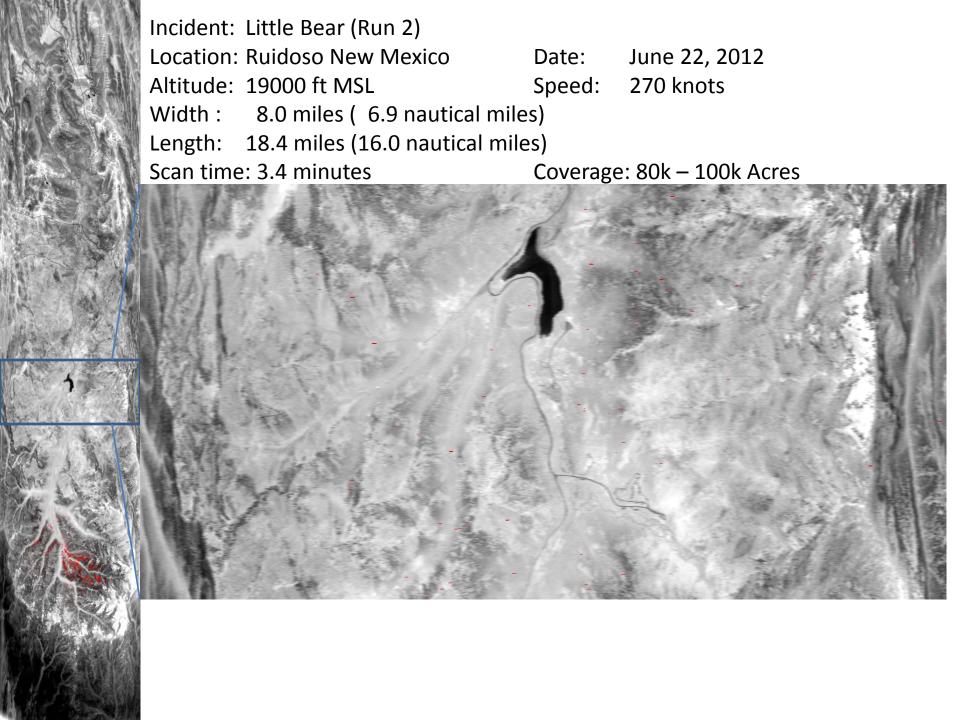
Altitude: 13500 ft MSL Speed: 270 knots

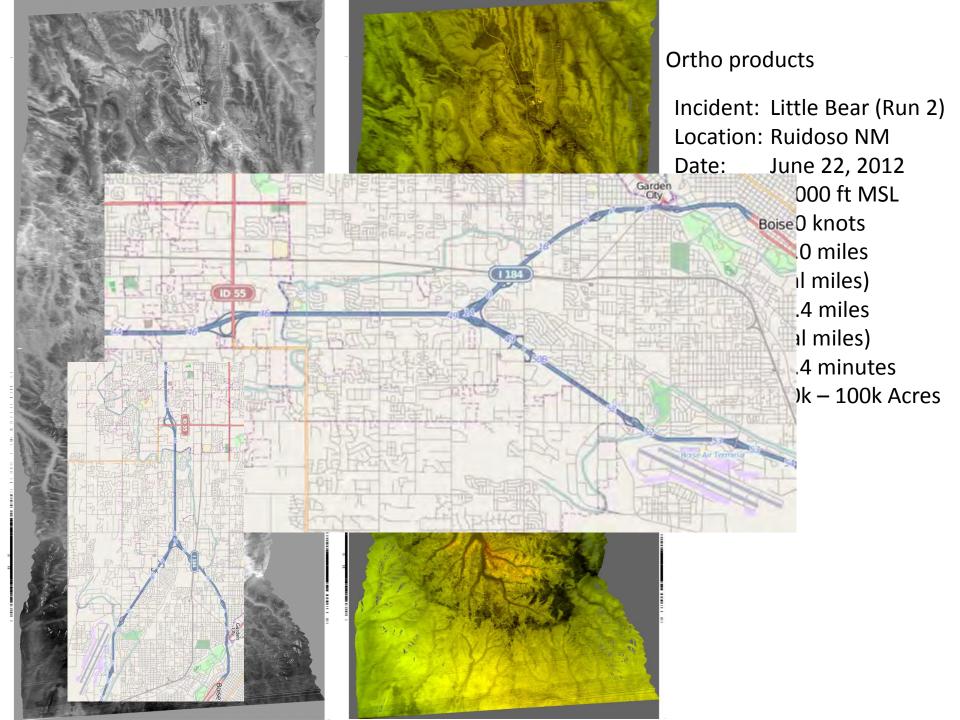
Width: 6.1 miles (5.3 nautical miles) Length: 8.6 miles (7.5 nautical miles)

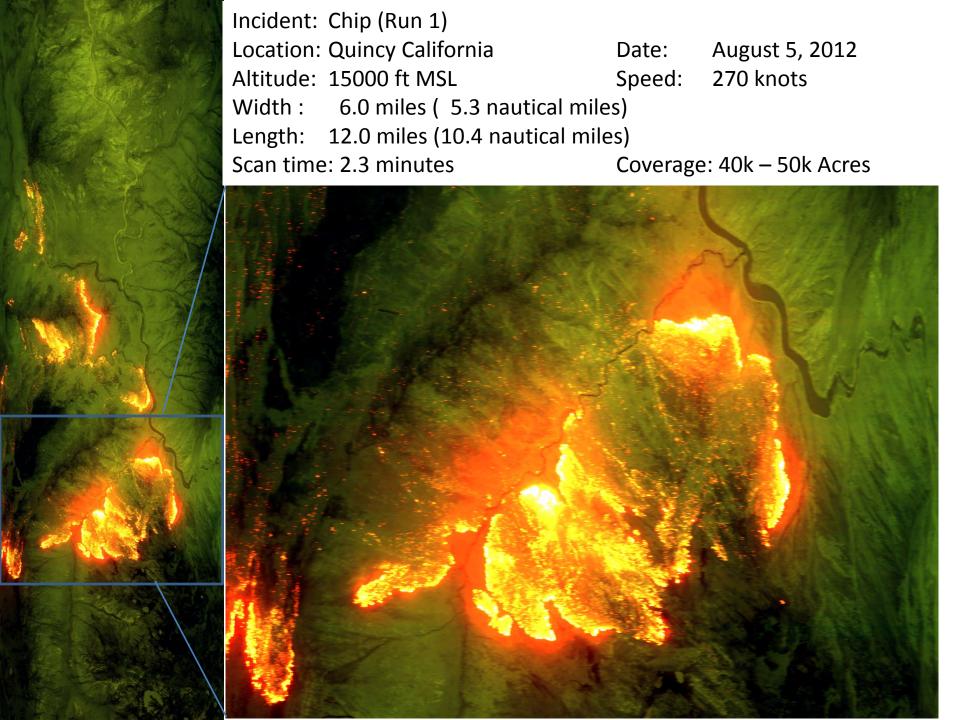
Scan time: 1.6 minutes Coverage: 30k – 35k Acres

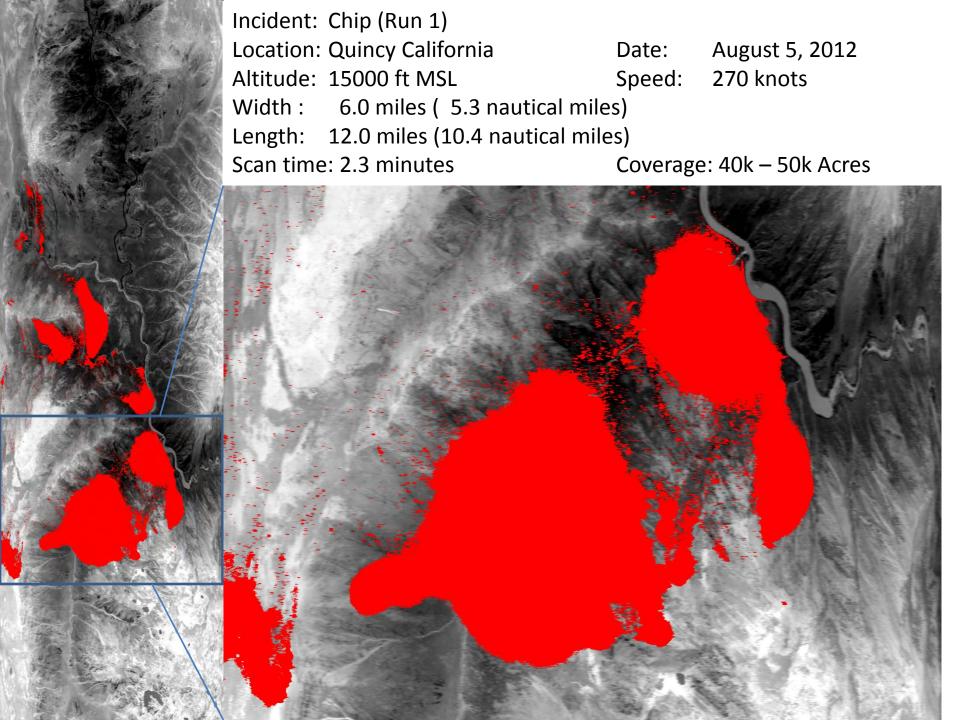


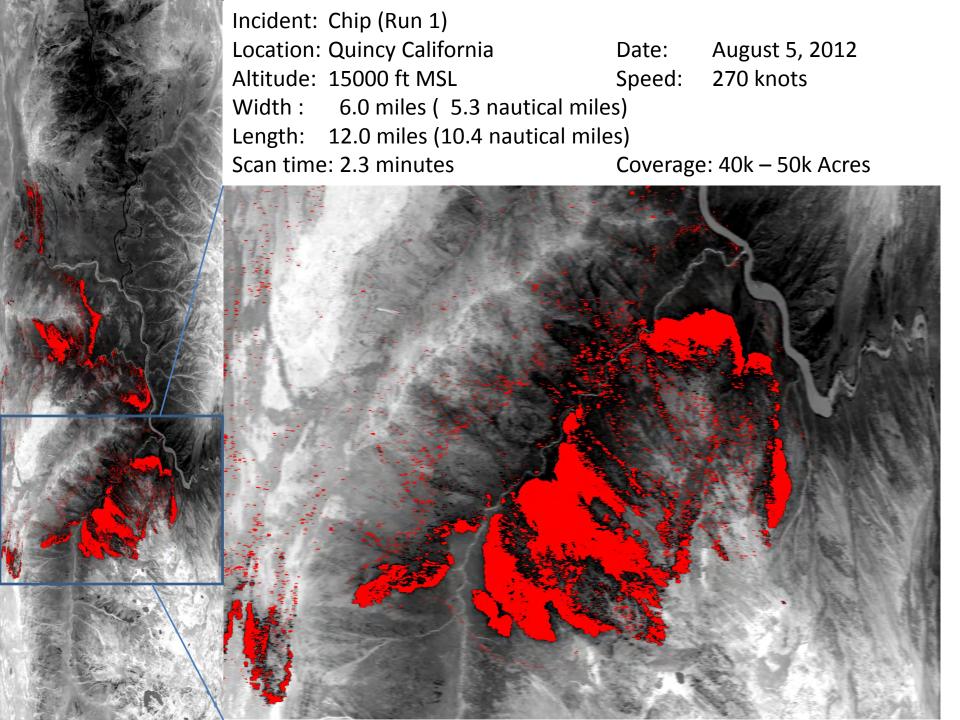


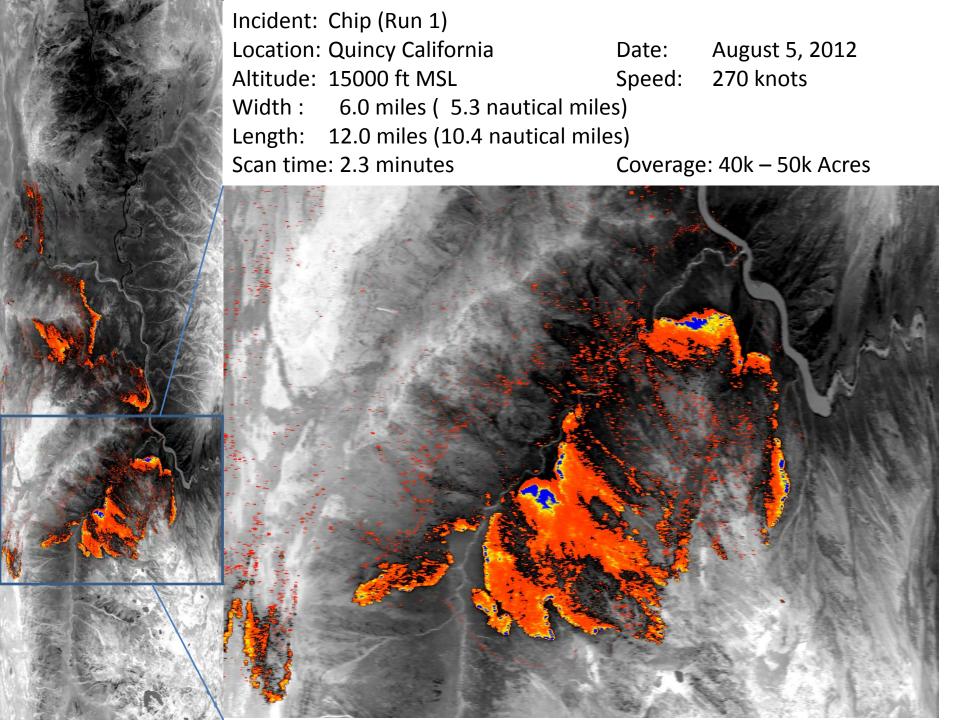












Continuous Improvement Program

- Optics
- Detectors
- Analog signal chain
- Digital data processing
- Products development
- Delivery
- Quality assurance

IR information sharing

- Facebook Group Infrared
- FreeArc link We are using version 0.666
 http://freearc.org/Download.aspx
 - download the Windows installer and the
 - Add-on: FreeArc PowerPack (standard set of external compressors)
 - FreeArc documentation
 - http://freearc.sourceforge.net/index.htm

Fire Detection

"Saved The Day – Trinity Ridge"

