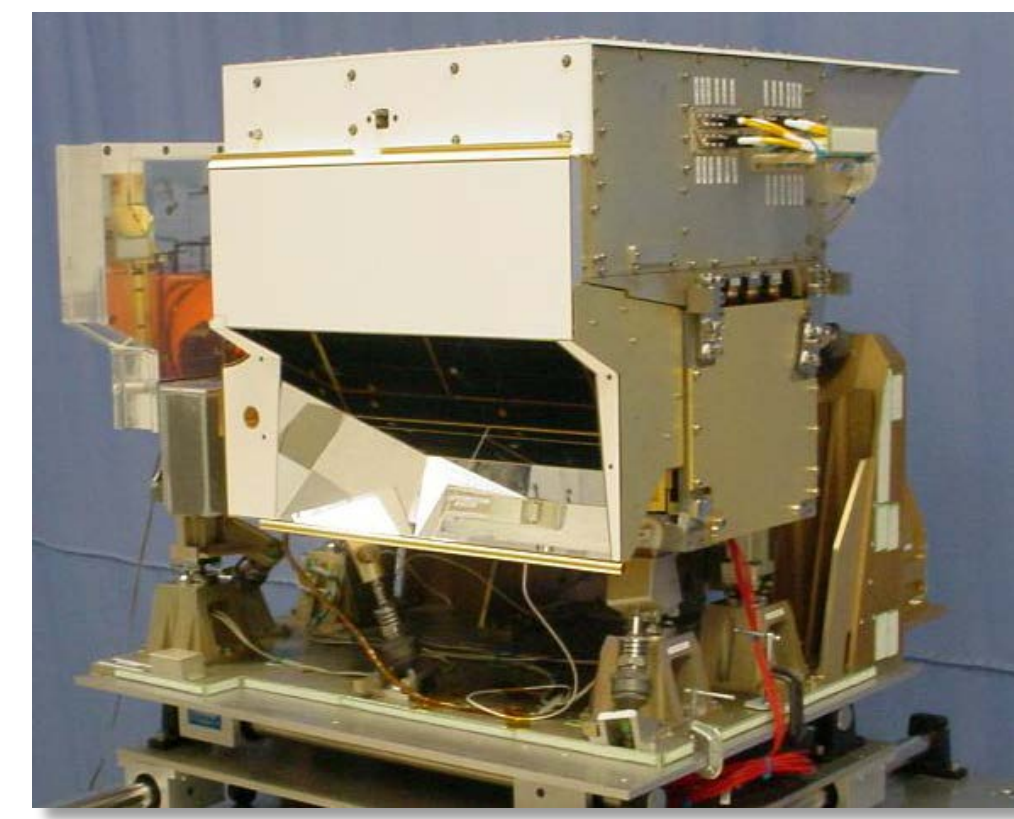


THE JPSS-1 CRIS INSTRUMENT: SUCCESSFUL FIRST-YEAR ON-ORBIT

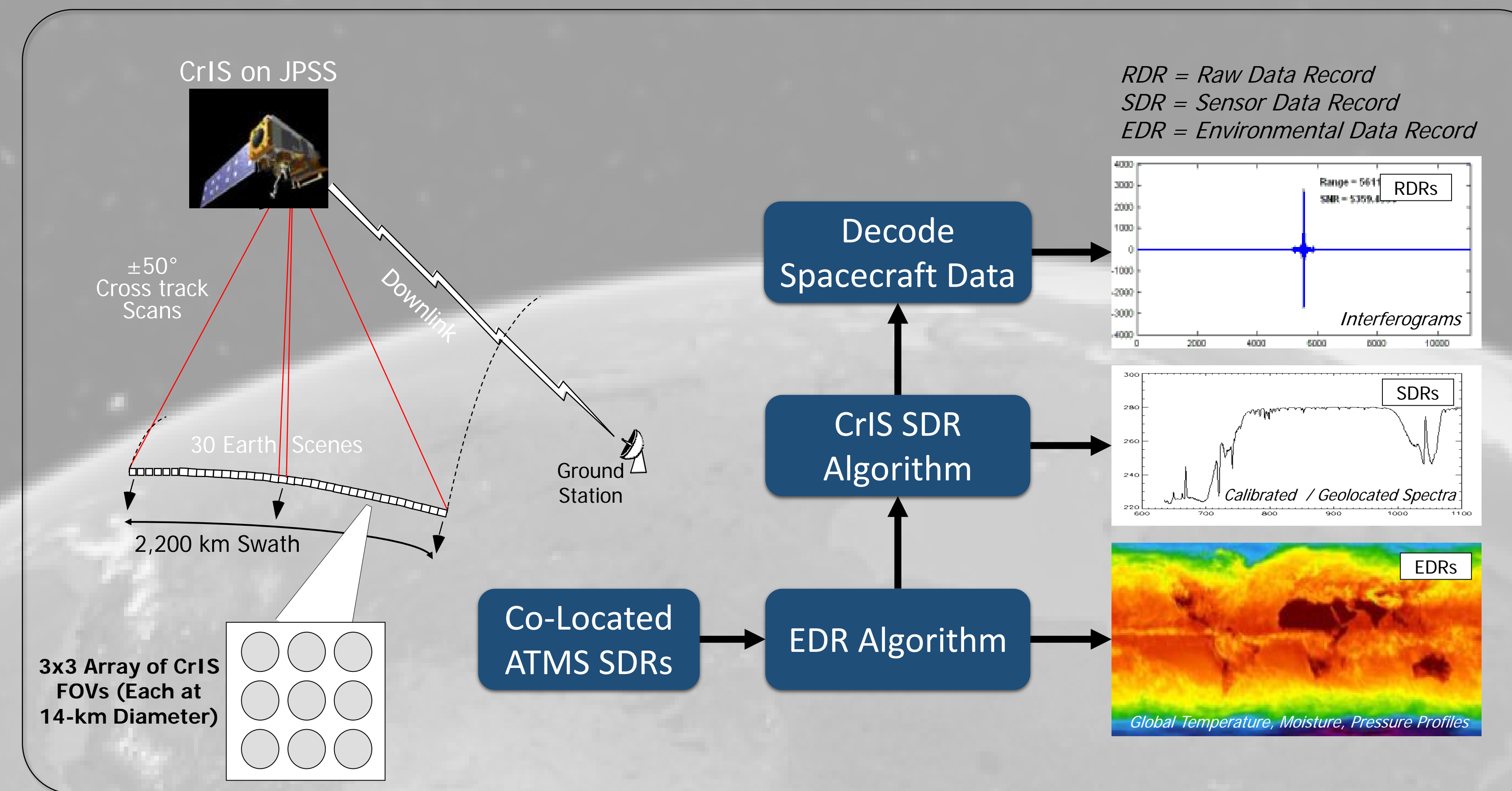


RONALD GLUMB, LAWRENCE SUWINSKI, STEVEN WELLS, REBECCA MALLOY, ANNA GLUMB, STEPHANIE BOEHRINGER
HARRIS CORPORATION, FORT WAYNE IN, USA



JPSS-1 CrIS

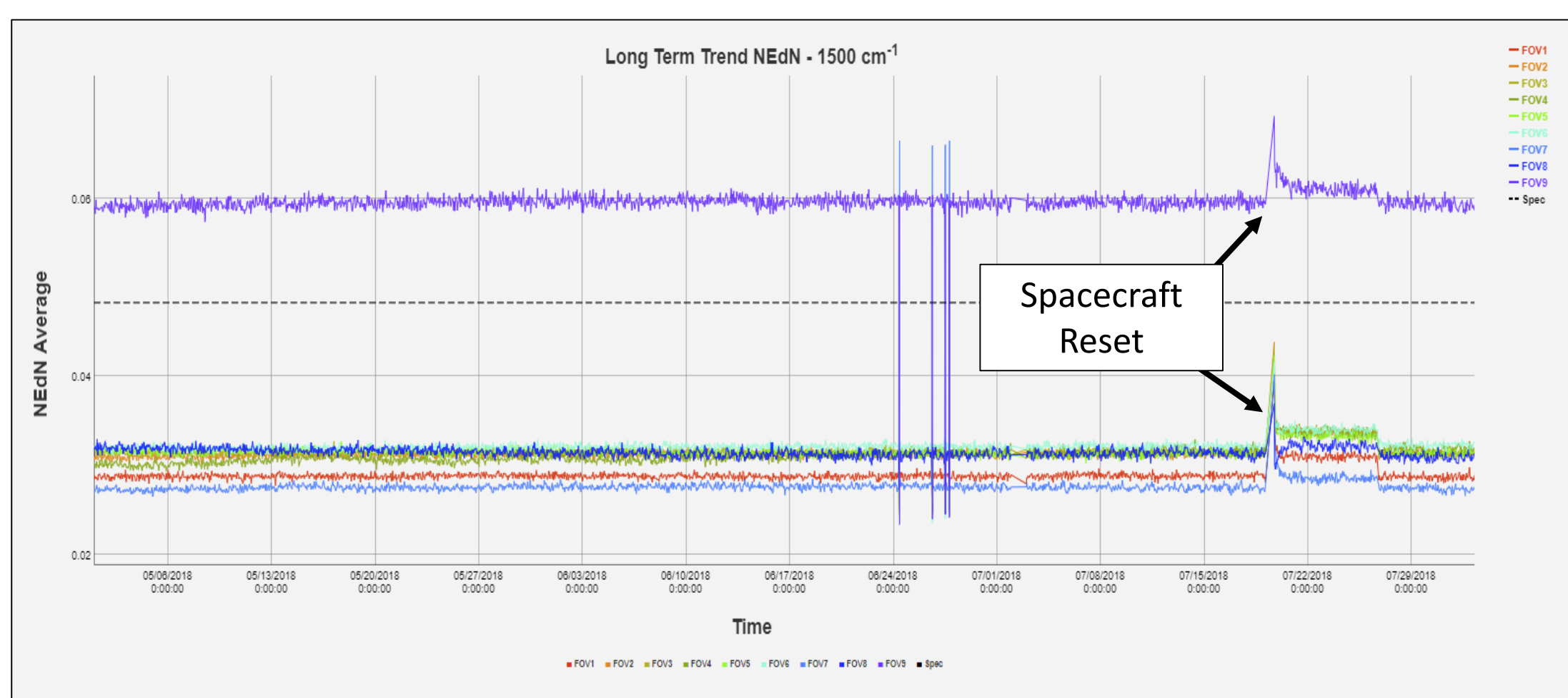
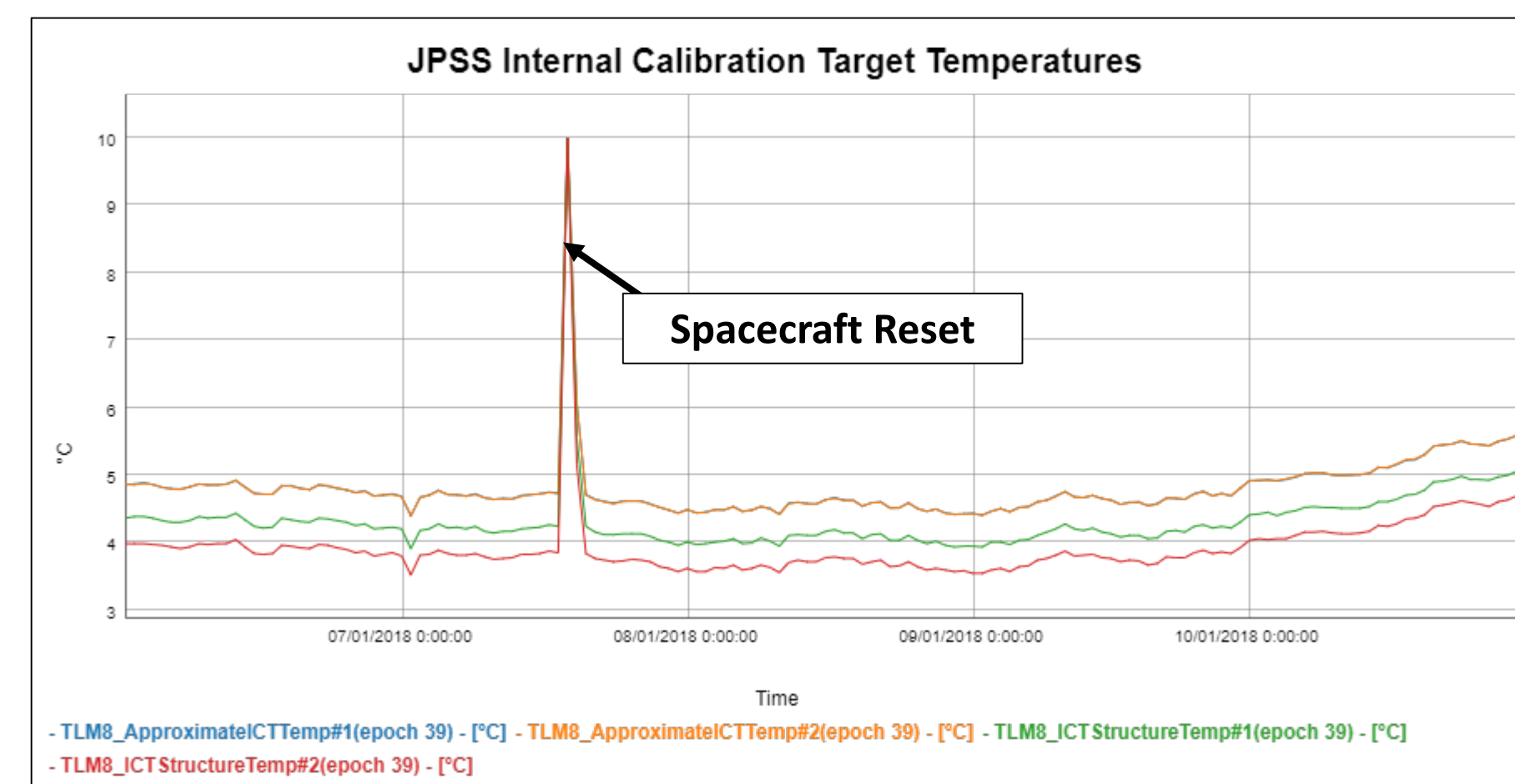
- Flawless First Year of Operation on JPSS-1
- Meanwhile, CrIS on Soumi-NPP Has Just Exceeded its 7-Year Design Life
- Continues to operate perfectly



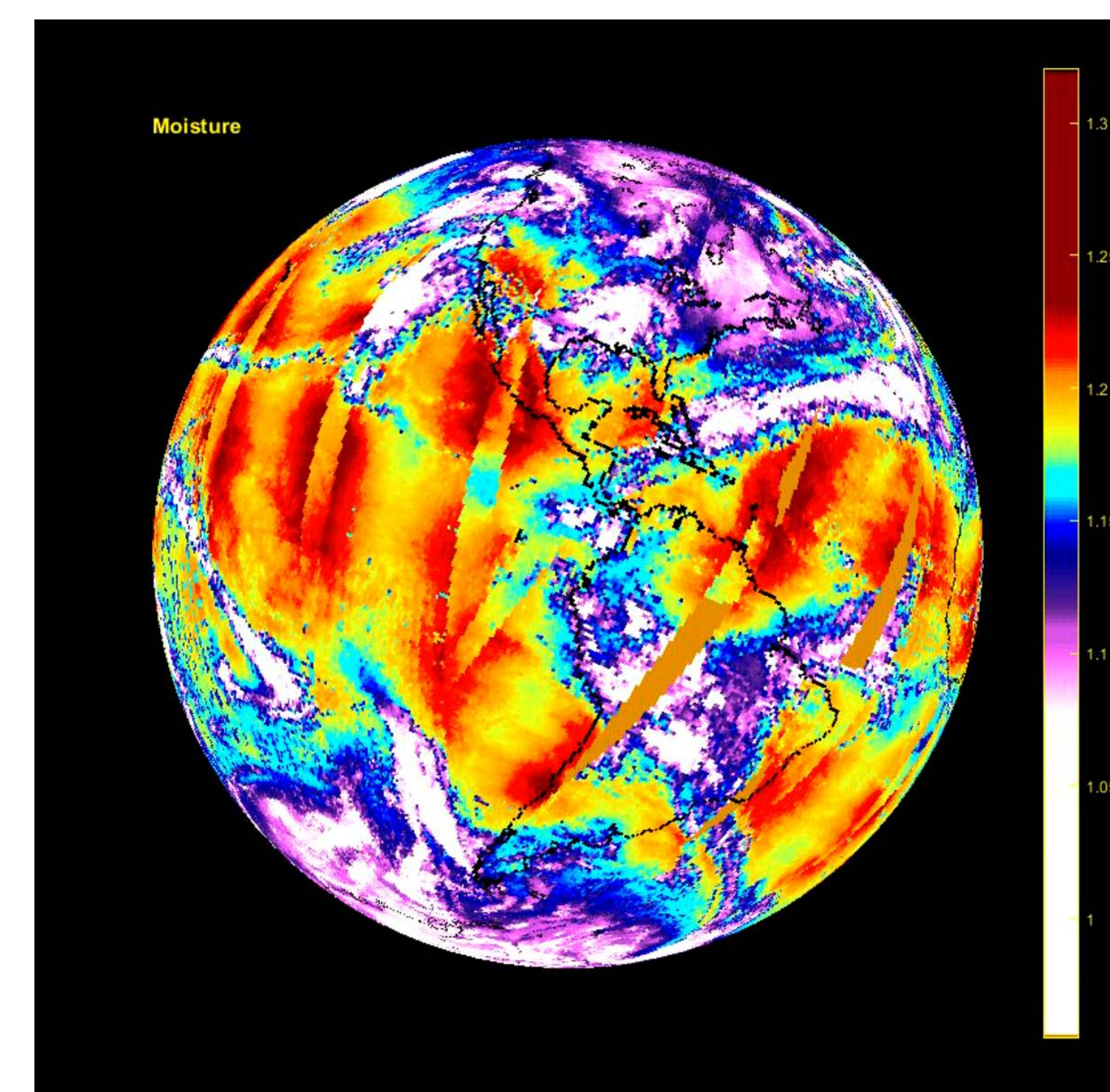
JPSS CrIS Key Parameters

Parameter	JPSS CrIS
Spectral Bands:	Wavelength Range:
SWIR	2155-2550 cm^{-1} / 4.64-3.92 μm
MWIR	1210-1750 cm^{-1} / 8.26-5.71 μm
LWIR	650-1095 cm^{-1} / 15.38-9.14 μm
Spectral Bands:	Number of Channels:
SWIR	633
MWIR	865
LWIR	713
Sampling Rate	0.625 cm^{-1} (All Bands)
Mass	146 kg
Power	105 W
Volume	~0.4 m^3

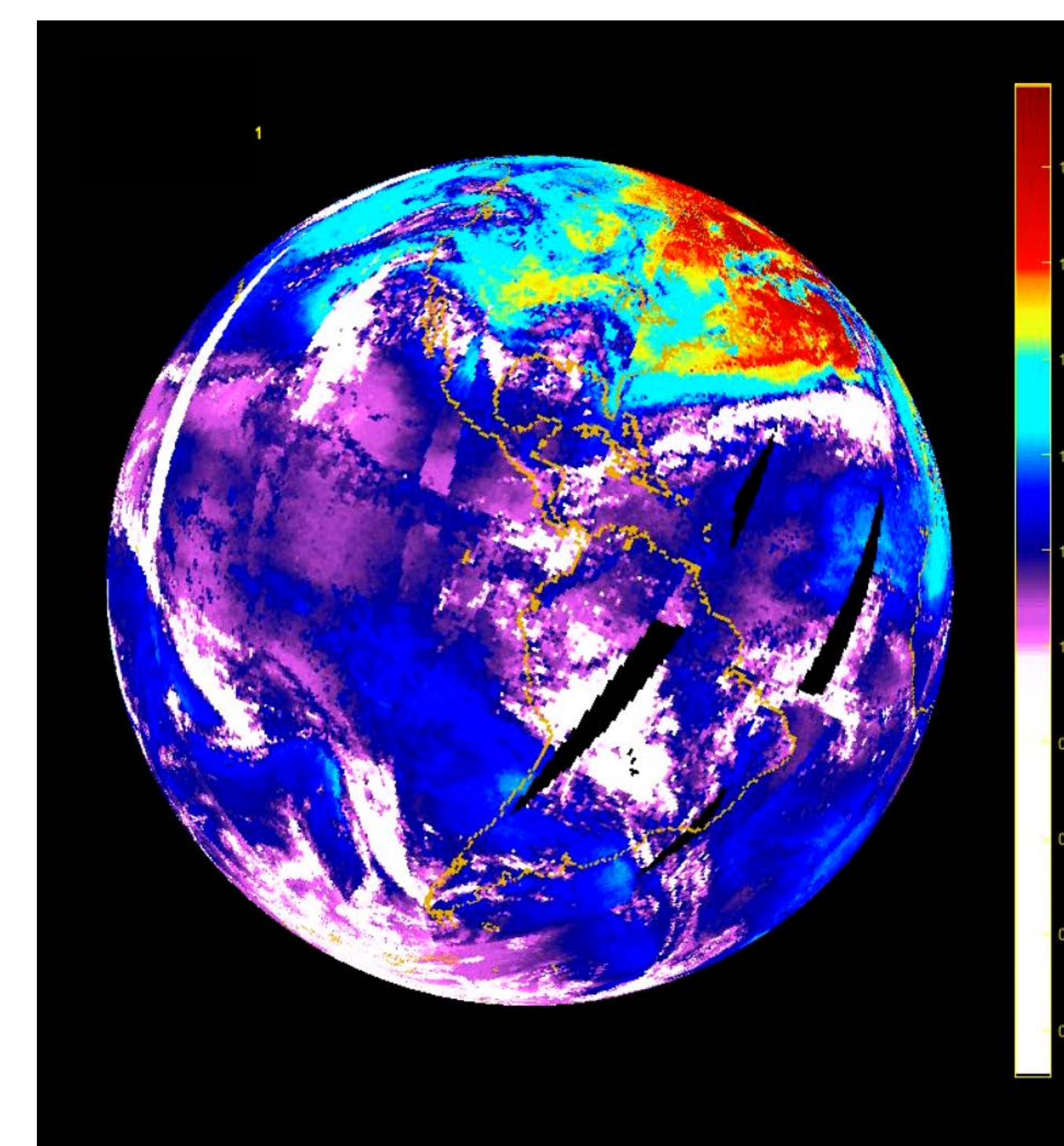
Trended On-Orbit Data for JPSS-1 CrIS Shows Excellent Stability



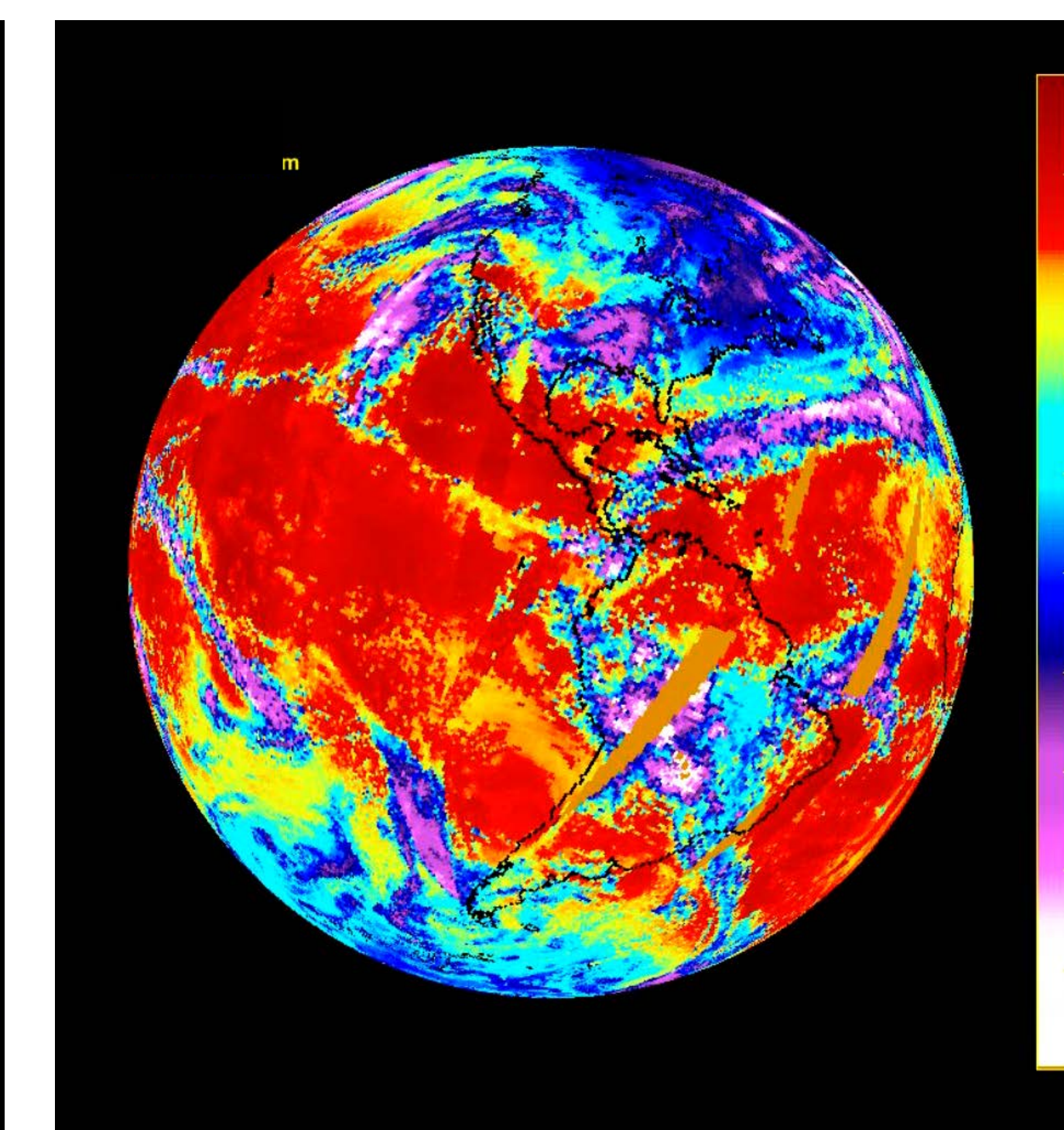
Very Stable NEΔN Performance



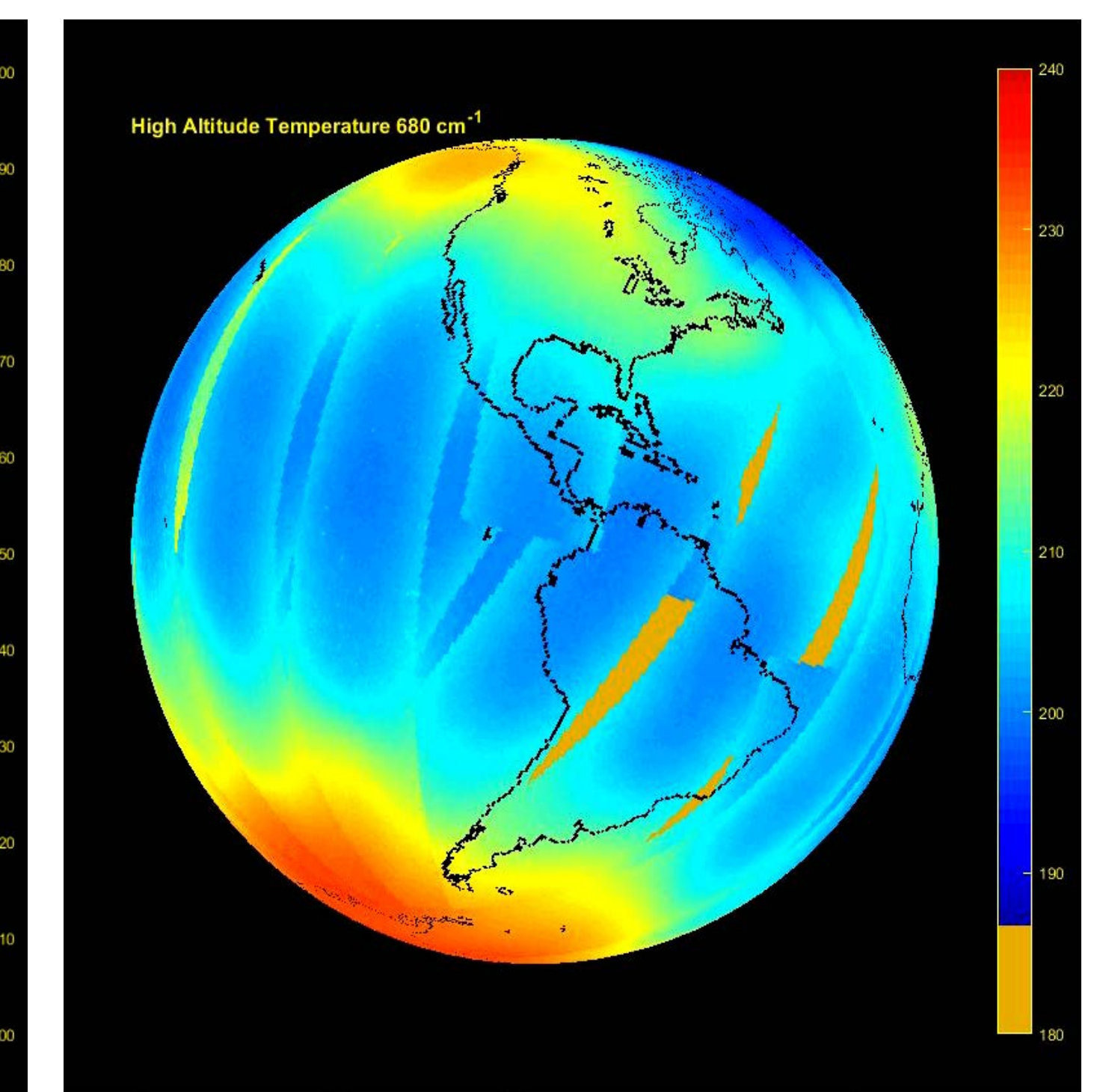
Moisture Data



Ozone Data



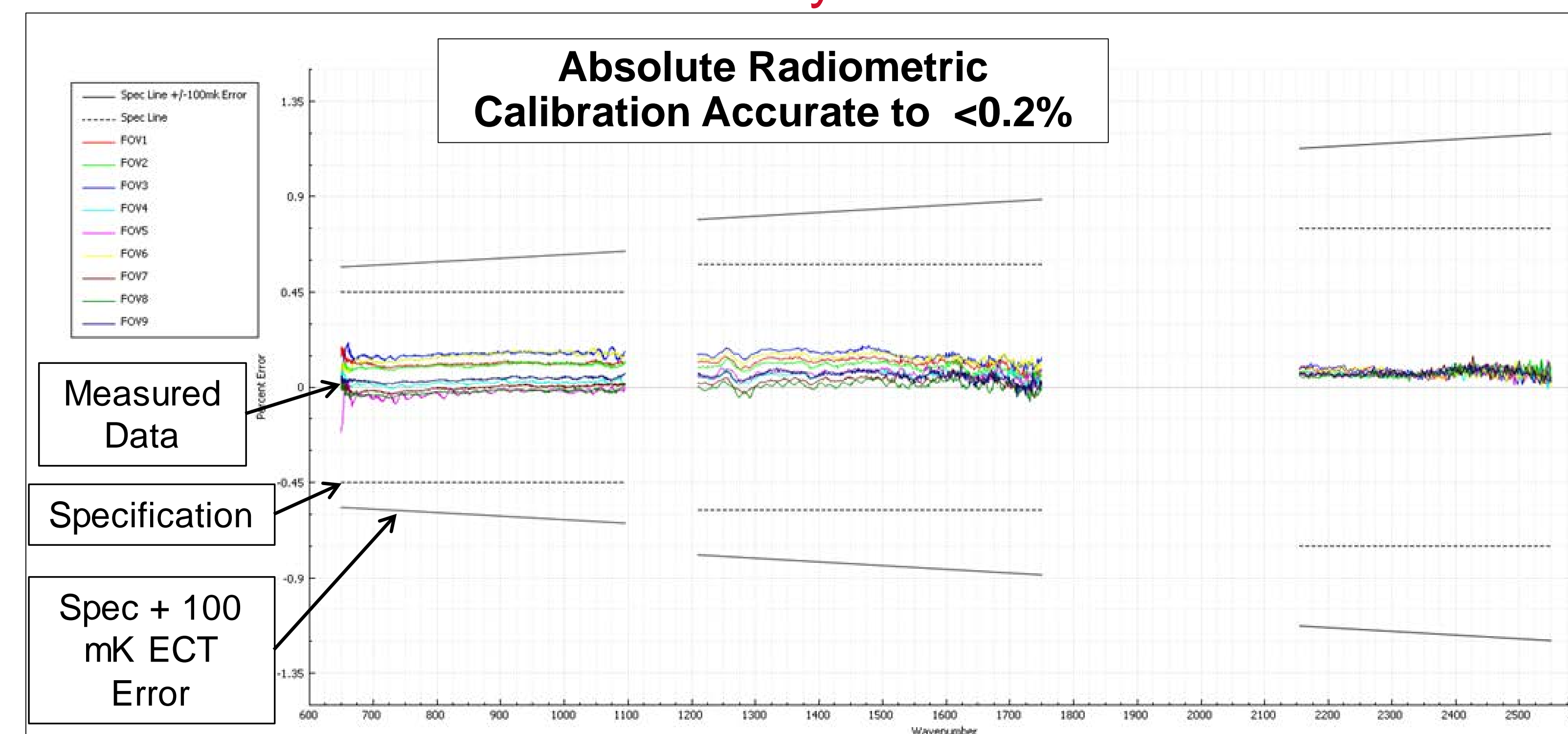
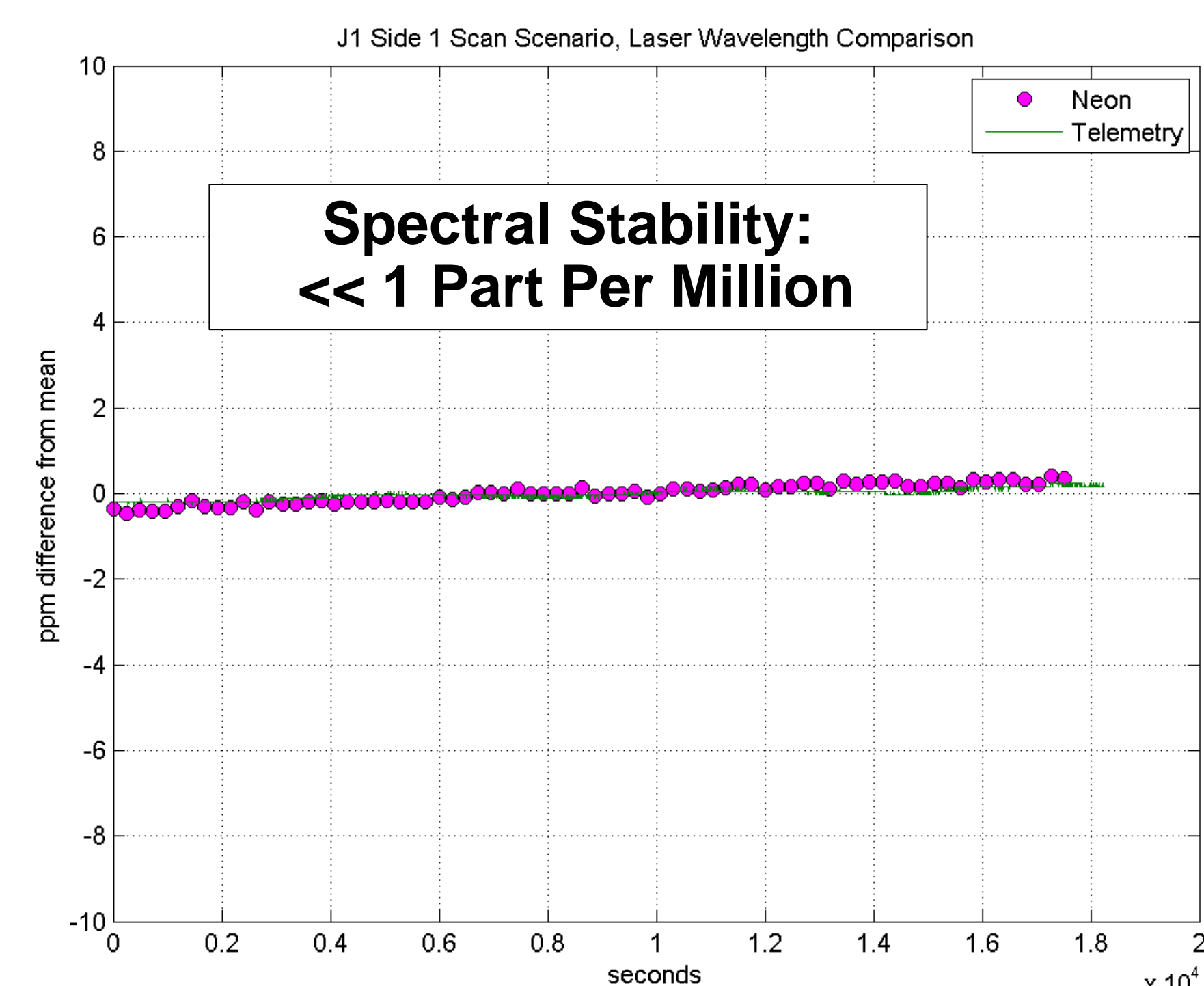
Temperature Data



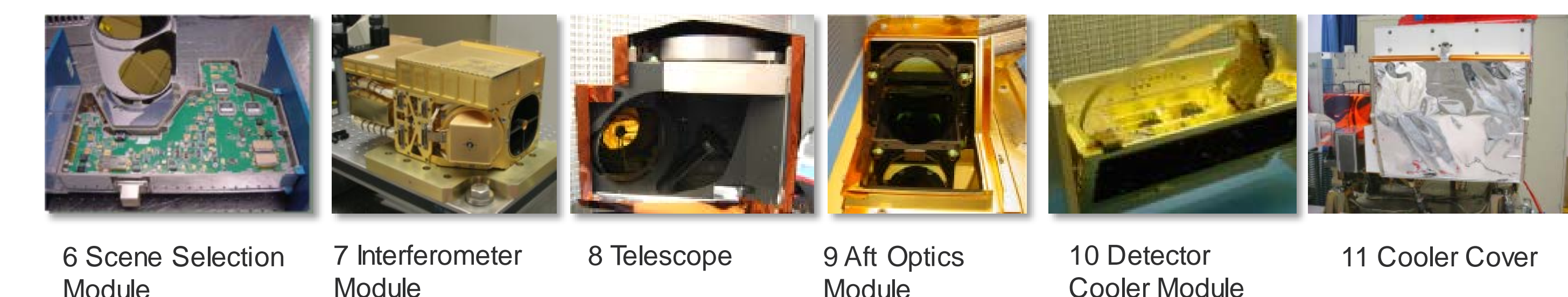
High Altitude Temperature

Global On-Orbit Sounding Data from J1 CrIS

Superb Spectral and Radiometric Calibration Accuracy



JPSS CrIS Instrument Status



Instrument	Status
JPSS-2	Ready for Vibration Tests
JPSS-3	Preparing for Instrument-Level Integration
JPSS-4	Module-Level Testing Underway