

TC4 ER-2 Check-out Flight: July 7, 2007
Flight Summary
S. Platnick

Sortie: TBD

Pilot: Dave Wright

Takeoff (DFRC): ~0910 PDT

Landing (DFRC): ~1130 PDT

Duration: ~2:20

Objectives:

1. Short check-out of all instruments over a variety of scenes.
2. Test of REVEAL/RTMM system for ER-2 location and CPL.

Satellite Coordination:

None.

Flight Track Summary (see REVEAL/RTMM map):

Fly northward over the Sierras to Lake Tahoe, SW towards Pt. Reyes, southward off CA coast to Pismo State Beach, back to DFRC.

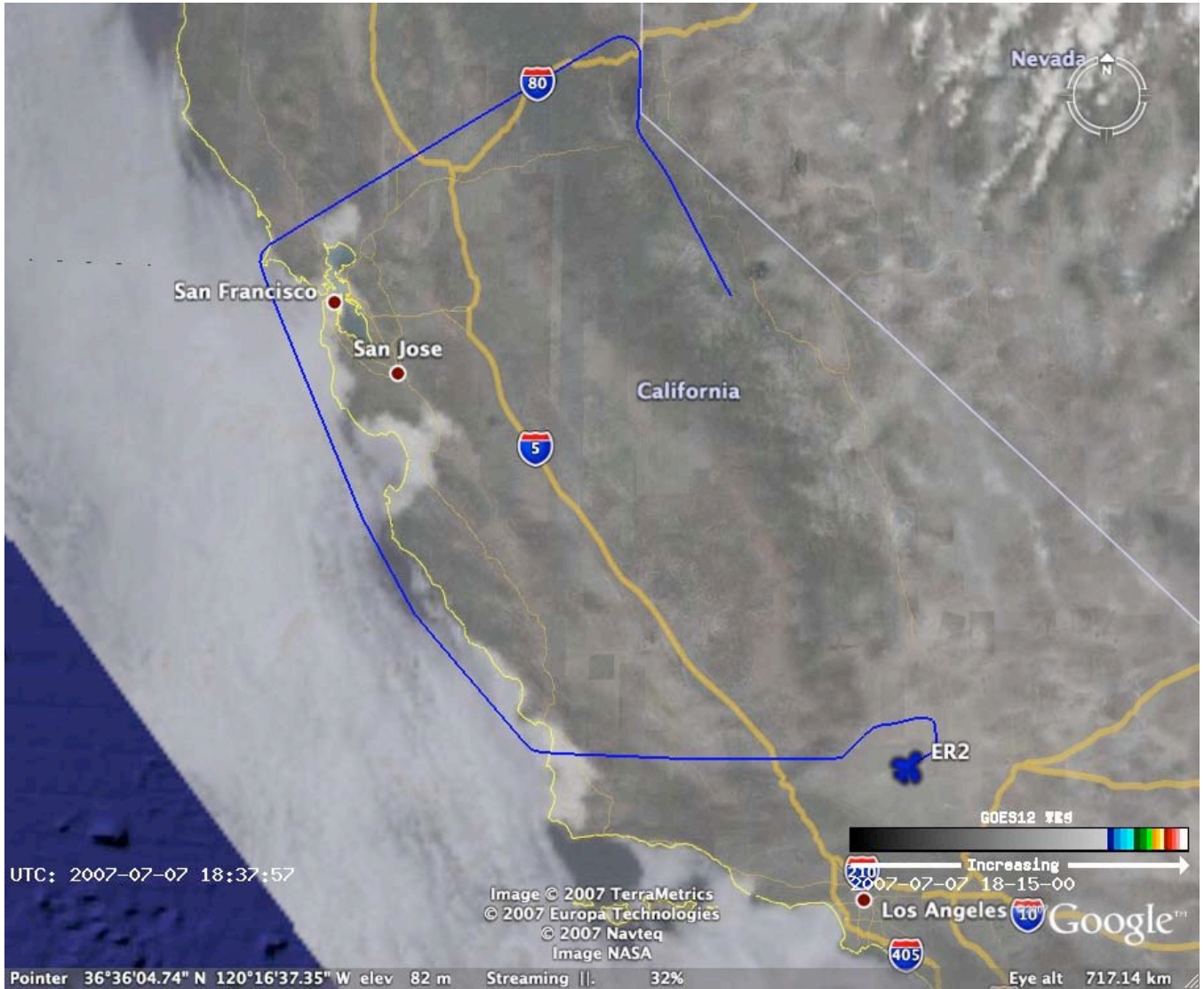
Pilot Comments:

- Clear over Tahoe, no haze.
 - EDOP failure light(s) after turn towards coast. Fixed itself after a minute or so.
 - Happened about 3 times during the flight.
- Stratocumulus over the ocean with about 20 miles of open ocean off Big Sur.
- Static heard on UHF Guard Channel, thought to be related to instrument interference Monday update: found related to grounding problem in right hand pod (without instruments running).

REVEAL:

A CPL signal was “seen” but didn’t look like the data stream from aircraft tests.

REVEAL/RTMM map w/GOES-W overlay:



MODIS Terra True Color (Rapid Response subset):



ER-2 Science Instrument Payload and Status:

Instrument	Status	Notes
CPL Cloud Physics Lidar	G	
CRS Cloud Radar System	G	
EDOP ER-2 Doppler Radar	P	Intermittent (but self-correcting) data sys problem. Also, one channel not functioning. If need to pull, unlikely to fly on Monday test.
AMPR Advanced Microwave Precipitation Radiometer	G	Will come out of hatch to install REVEAL cable
CoSSIR Compact Scanning Sub-mm wave Imaging Radiometer	P	One channel (640 GHz?) saturated. Working the problem.
MAS MODIS Airborne Simulator	G	
S-HIS Scanning High Resolution Interferometer	G	
IR Radiometer Broadband flux radiometer (nadir & zenith)	G	
SSFR Solar Spectral Flux Radiometer (nadir & zenith)	G	
MVIS video camera	G	Will adjust focus
MTP Microwave Temperature Profiler	-	Not integrated for flight

G = good; P = partial data collected; F = failure, no data