



GOSAT/OCO-2 Technical Interface Meeting
San Francisco, CA, USA, 11 December 2013

OCO-2 (Orbiting Carbon Observatory-2)
on Schedule for a 01 July 2014 Launch

Dr. Ralph R. Basilio
OCO-2 Project Manager



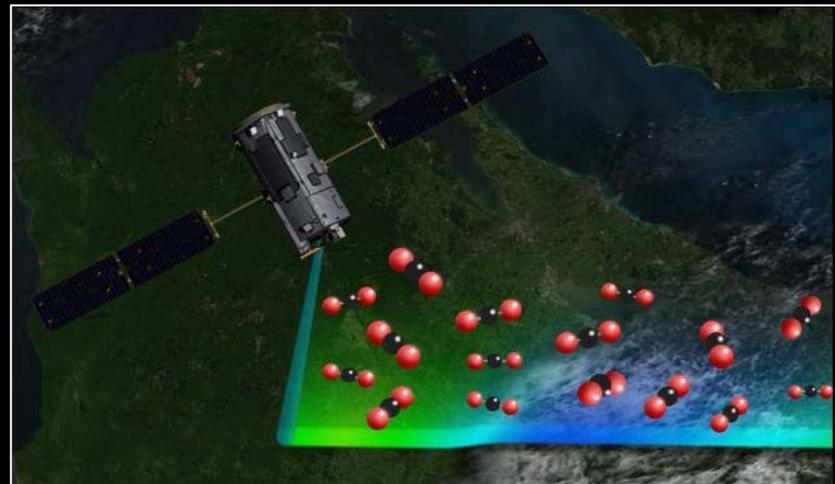
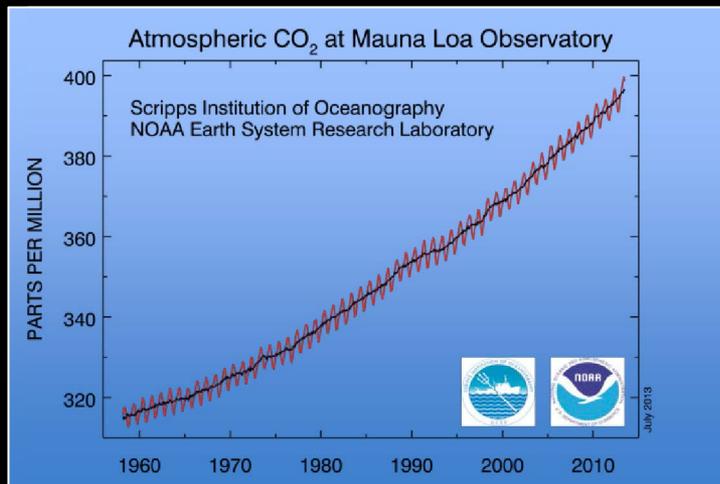
MISSINGS PIECE OF THE PUZZLE

OCO-2: NASA's First Dedicated Atmospheric CO₂ Mission

Combines precision, coverage, and resolution

Identify regional scale emissions (sources) and collectors (sinks)

Locate the other half of CO₂ that doesn't remain in the atmosphere



SUCCESSFUL DYNAMICS TESTS

Delta II Defines the Observatory Dynamics Environment

Sine vibration

Acoustics

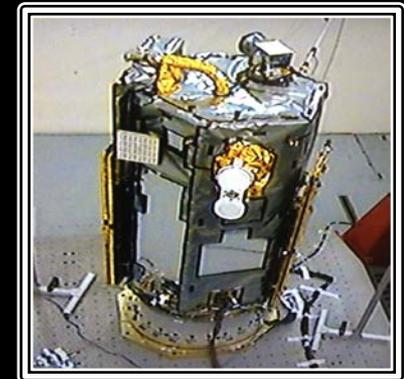
Shock



Fully-Assembled Observatory



Observatory on Shaker
Assembly Slip Table



Top View Showing
Instrument BCA
(Baffle/Calibration
Assembly) and
Star Tracker

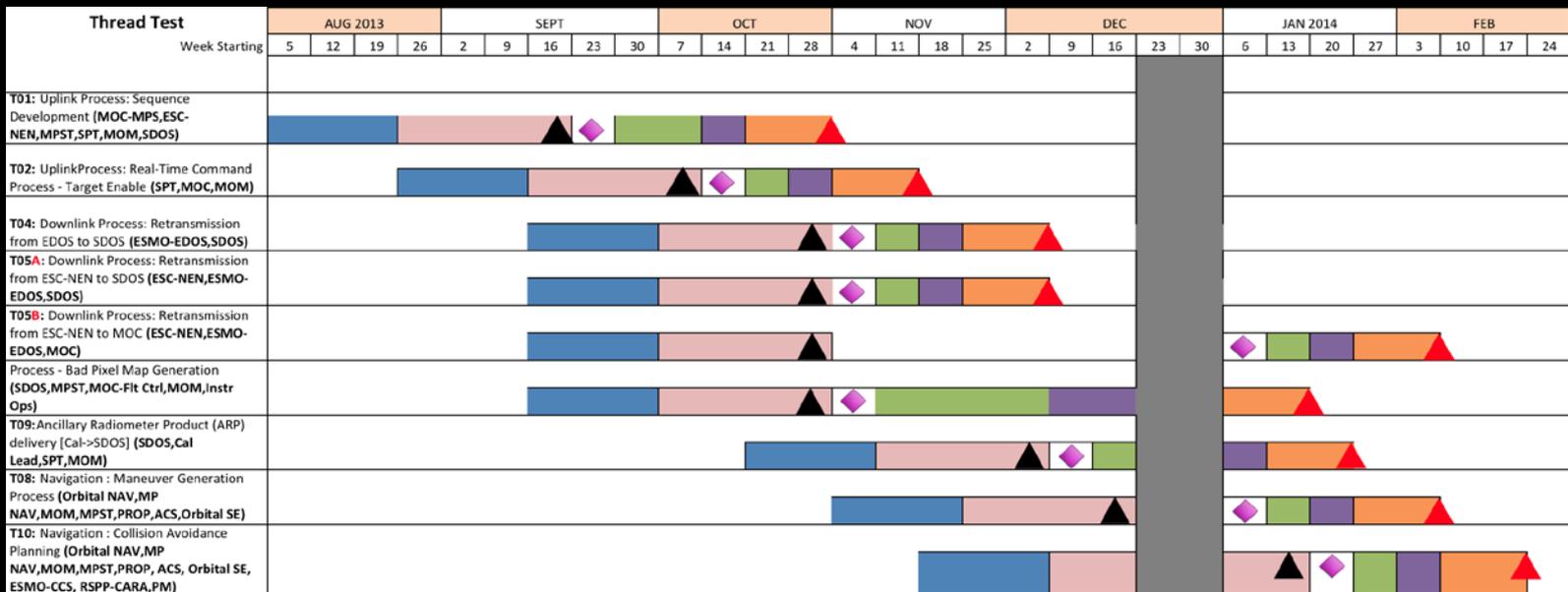
Observatory now undergoing
thermal vacuum testing

FIRST THREAD TESTS SUCCESSFUL

Initial Set of MOS (Mission Operations System) Prep Tasks

Exercises ‘people, tools, and processes’

Predecessor to ORTs (Operational Readiness Tests), Jan-Jun



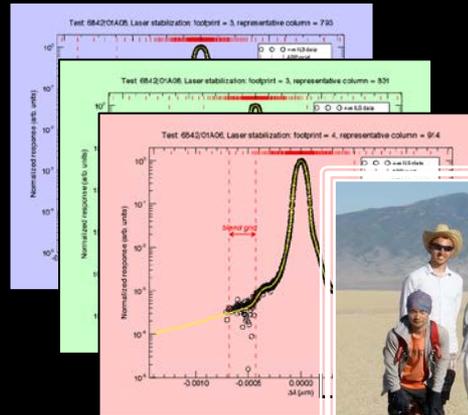
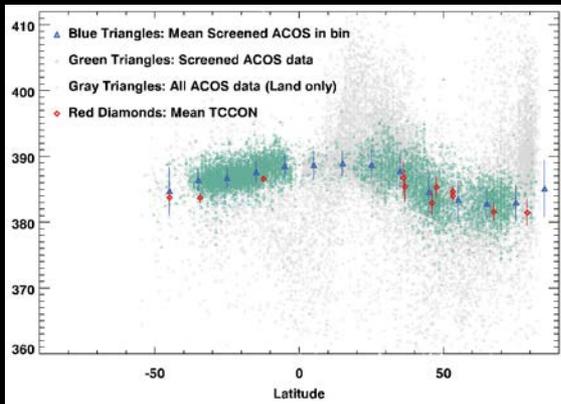
SCIENCE ALGORITHMS DELIVERED

SDOS (Science Data Operations System) v3.5 Delivery in Jan

Fully-functional version

Exercise during ORTs (Operational Readiness Tests), Jan-Jun

Data Comparison for
For July 2009 (SDOS v3.3)



Team Members at the Railroad Valley,
NV Vicarious Calibration Site

OBSERVATORY ON SCHEDULE

Funded Schedule Margin Exceeds Requirement More Than 2:1

Observatory testing schedule margin is more than seven (7) weeks

Only three (3) weeks required at this stage

LAUNCH SERVICES ON SCHEDULE

Delta II Assemblies are on Schedule

PLF (Payload Fairing)

Guidance section and second stage

Interstage

First stage

GEMs (Graphite Epoxy Motors)



Credit: Steve Greenberg, JPL