

Post-Launch Update

LDCM

The Satellite is performing well. Spacecraft activation continues - recent activities completed:

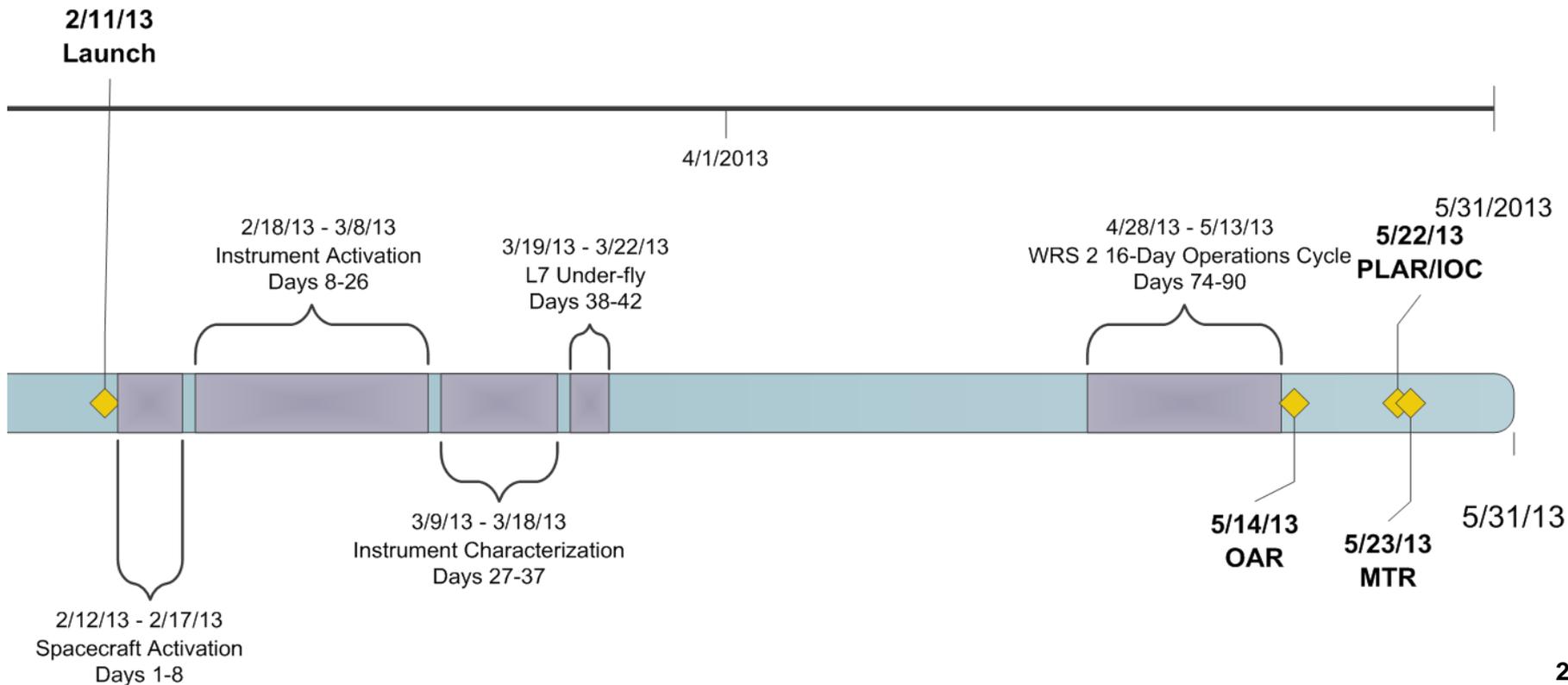
- Updated Inertial Measurement Unit (IMU) fault management (in response to Flight Software 1553 issue discovered pre-launch)
- Successfully updated Star Tracker #1 quaternion parameters
- At 2:30 am EST this morning the Satellite transitioned to NADIR pointing mode

The Mission Ops team continues to work ground system configuration issues which have been causing missed passes at some stations. The team is working to achieve better ground system contact stability before more intense timeline activities pickup. The team is also still working to achieve a successful command forward link through TDRSS – this is a lower priority than the ground station stability and does not impact the timeline.

Integrated Mission Timeline (IMT)

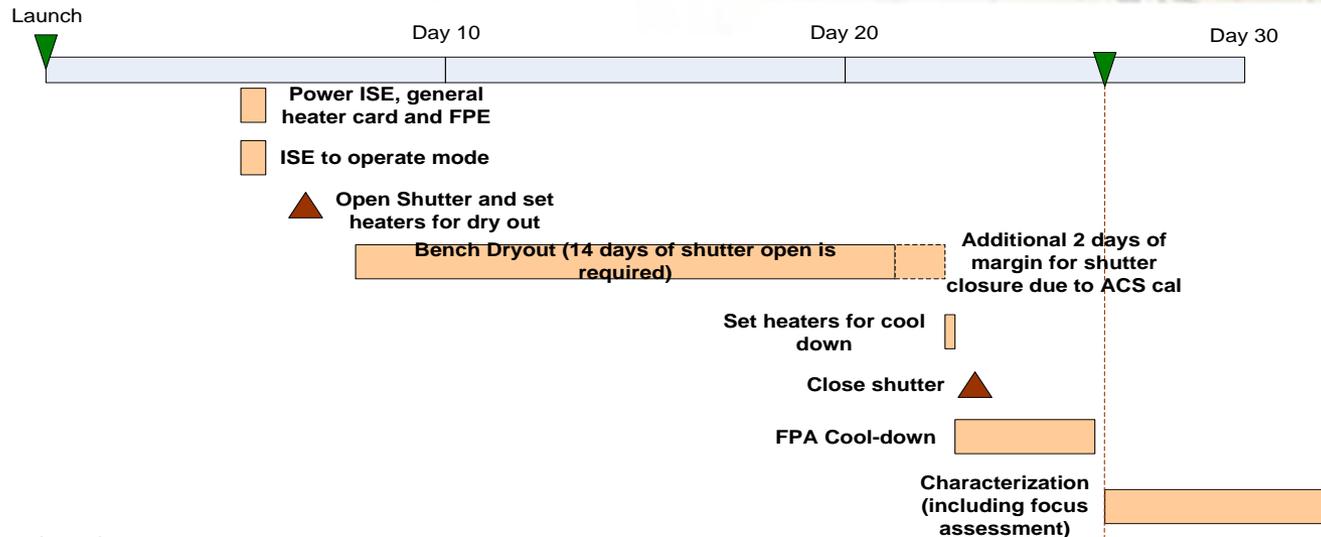
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- ◆ IMT defines observatory activation thru ~90 day commissioning period
- ◆ Developed with inputs from the MRT scripts, MOS tests and vendors
- ◆ Final face-to-face review conducted on 12/17–18
- ◆ IMT baselined on 1/14 and requires change request approval to update
- ◆ Major contractors (Orbital, Ball, Hammers) fully support commissioning

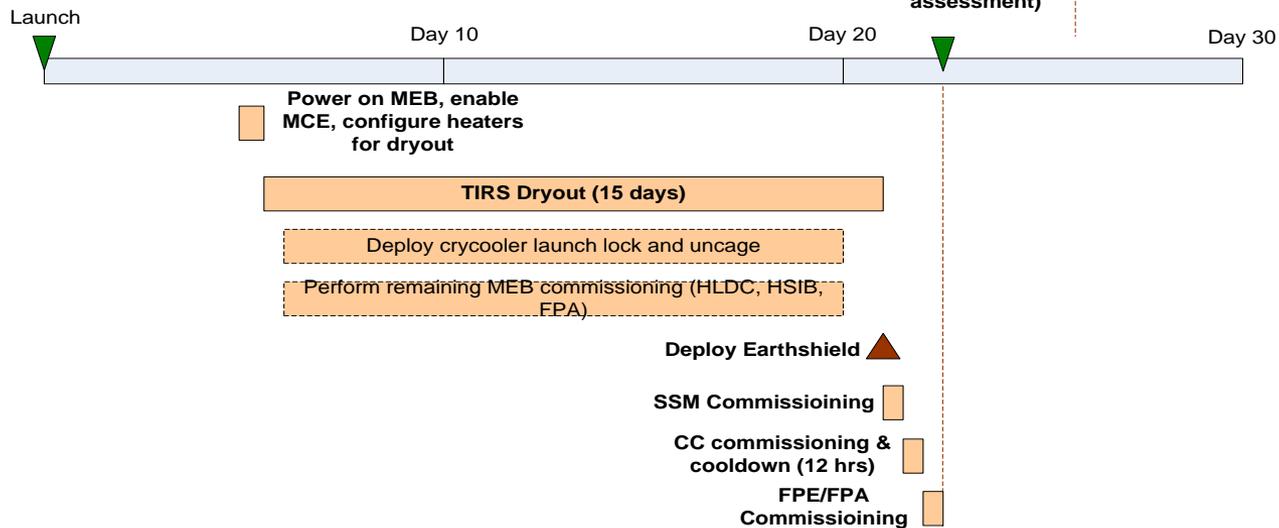


Instrument Activation

OLI



TIRS



Key Activities: Instrument Power-up, Dry-out, Cryogenic Cooldown, TIRS Deployments

IMT Schedule

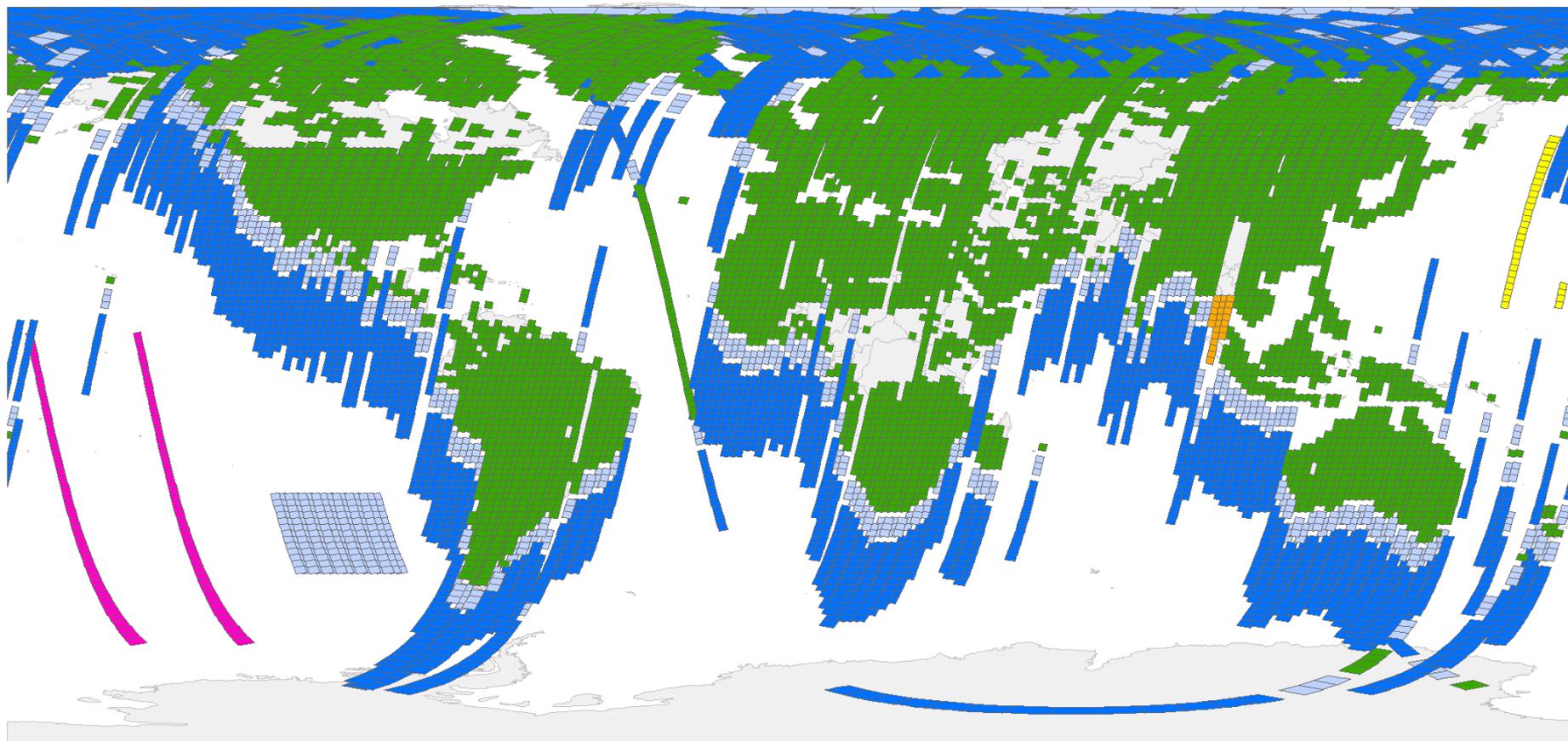
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	Su	Mo	Tu	We	Th	Fr	Sa
Week 1		*Launch* S/C Act				ACS Cals	Inst Act
Week 2	Eng Burn/ Instr Act	Inst Dryout	Eng Burn / ACS Cals				
Week 3	ACS Cals / Instr Act		ACS Cals / Instr Act			ACS Cals	ACS Cals / Instr Act
Week 4		Instr Act		Inst Cooldown			Inst Cooldown
Week 5	Inst Cal		Inst Cal	Burn 1	Inst Cal		Burn 2
Week 6							
Week 7					Underfly		
Week 8							
Week 9			Burn 3			Burn 4	
Week 10							
Week 11							
Week 12	DRC 16						
Week 13							
Week 14		DRC 16					



Primary Science Campaign

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Legend - All 16 days

- Activity Type ■ OLI + TIRS Earth Imaging ■ OLI Ops Cal -or- Lamp Cal ■ Solar Cal
- Off Nadir Imaging ■ TIRS Ops Cal ■ Lunar Cal



Mission Transition Overview

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- Preparations for transition have been underway for more than a year
- All aspects (programmatic, contracts, operations, documentation, etc.) are on track for timely transition to USGS
 - Programmatic & Operations Transition plans ready to be baselined
 - Contract transition details reviewed & agreed to by NASA/USGS procurement/legal & contractors
 - Contracts (Orbital, Ball, Hammers) contain O&M clauses for continuing support to USGS
- Transition occurs after Post Launch Assessment Review (PLAR) & Mission Transition Review (MTR) - Nominally L+100 days in late May 2013
- NASA maintains *WBS 4.0 Science & Data Analysis* thru 5 yrs. of Landsat 8 ops.
 - Managed by Code 600: Cal/Val, Support to USGS-chaired OLI incentive payment assessment boards, PAO, Science Team
- IA's in place to facilitate post-transition support from NASA to USGS
 - Flight Ops Team, MOC facility, networks, flight dynamics, anomaly engineering support