



Daily Downlink Tagup

Friday, March 29, 2019 (DOY 088)

OSIRIS-REX™
ASTEROID SAMPLE RETURN MISSION



Agenda & Logistics

- Quicklook
- DSN Schedule
- Observation Timeline
- Uplink/Execution/Downlink Summary
- Alarms, Watch items, ISAs, PFRs
- Need for Retransmit, need for Replay?
- Science / PI Comments
- Go-backs / Additional Comments

Daily Downlink Summaries available shortly after each Tagup at on the OREx Ops Wiki:
https://orexwiki.lpl.arizona.edu/wiki/Main_Page (LDAP login)

Daily Downlink Slides available shortly after each Tagup at:

OSIRIS-REx Bennu Proximity Operations/Science Implementation/Downlink_Daily_Summary/2019

Quicklook

Team	Status	Comment
Spacecraft	G	No issues
<i>Electrical Power System</i>	G	No issues
<i>Flight Software</i>	G	No issues
<i>Fault Protection</i>	G	No issues
<i>G&NC</i>	G	No issues
<i>Mechanisms</i>	G	No issues
<i>Propulsion</i>	G	No issues
<i>Telecom</i>	G	No issues
<i>Thermal</i>	G	No issues
<i>Payload Interfaces</i>	G	No issues

	Health				Safety		Performance			Powered State	GO/NO-GO
OCAMS										ON	GO
OLA										ON	GO
OTES										ON	GO
OVIRS										OFF	GO
REXIS										OFF	GO
	Thermal	Power	Command Response	Alarms	Trending	Limited Life & Mechanisms	Data Completeness	Pipeline Status	Science Concurrence		

Downlink Schedule (times in UTC)

- **Current Data Rate: 1.3 Mbps**

WOY	DOY	Start Date	HGA Start	End Date	HGA End	Duration	Note
13	084	3-25-2019	14:47	3-25-2019	20:35	05:48	1.3 Mbps, Crit 3 Oponavs COMPLETE
13	085	3-26-2019	14:01	3-26-2019	18:35	04:34	*M8D – Decomposed will reduce downlink duration by 1.5 hours COMPLETE
13	086	3-27-2019	14:37	3-27-2019	18:40	04:03	1.3 Mbps, Crit 3 Oponavs COMPLETE
13	087	3-28-2019	13:22	3-28-2019	15:30	03:08	1.3 Mbps, Crit 3 Oponavs COMPLETE
13	088	3-29-2019	14:27	3-29-2019	15:35	01:08	1.3 Mbps COMPLETE
13	089	3-30-2019	17:33	3-30-2019	20:35	03:02	*M9D – Decomposed will reduce downlink duration by 1.5 hours
13	090	3-31-2019	14:02	3-31-2019	20:35	06:33	1.3 Mbps

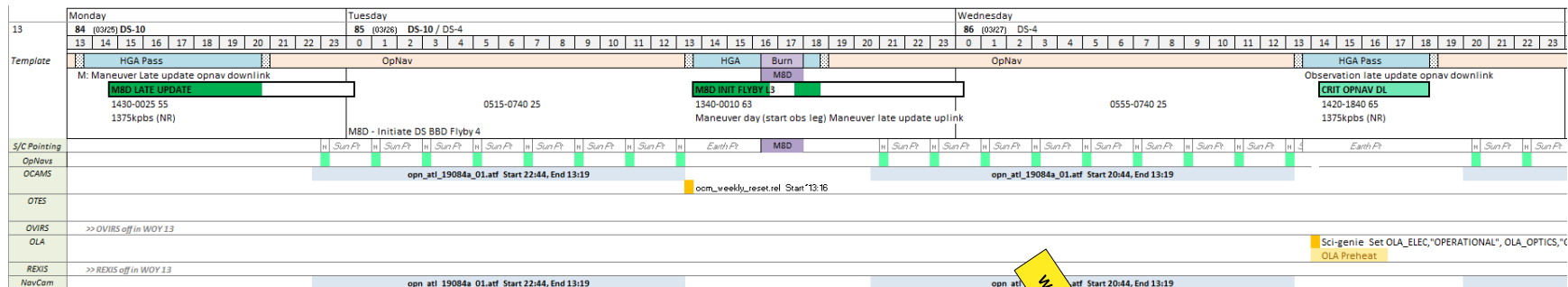
DSN Notes:

ED EQUIPMENT STATUS:

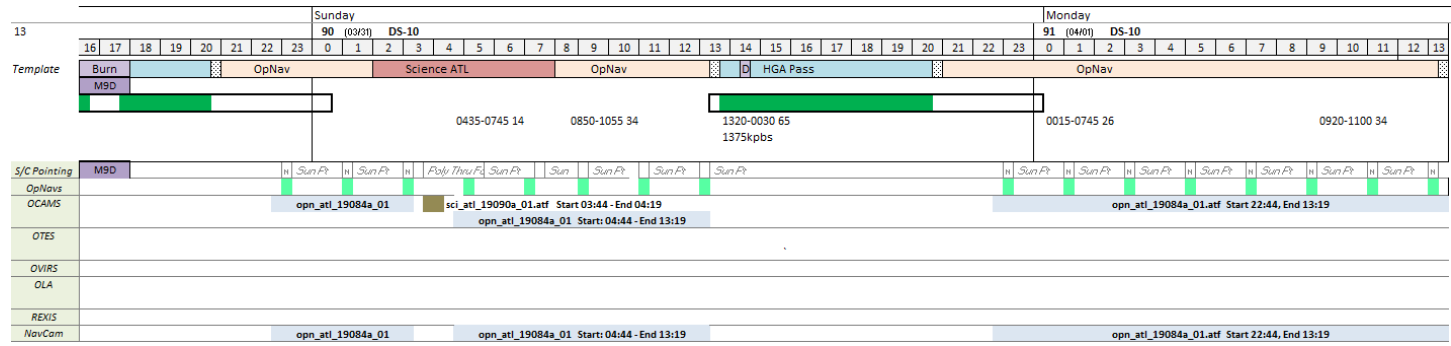
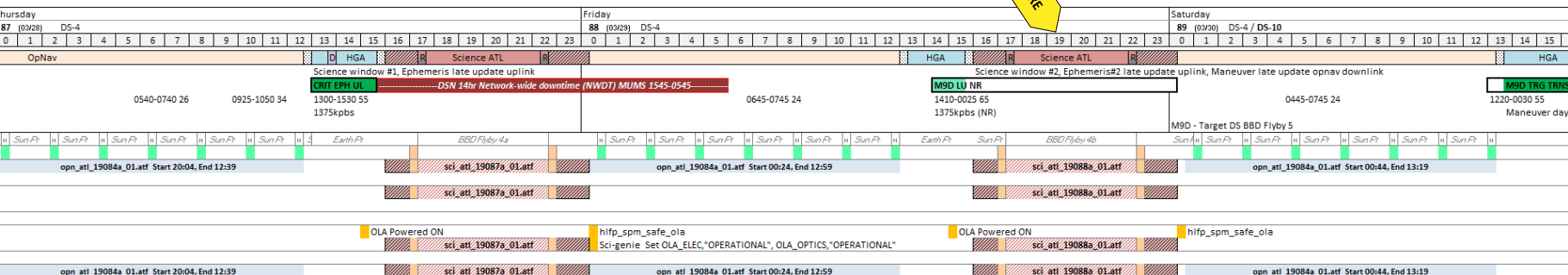
SPC/DSS	EQUIPMENT	ETRO
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DSS14	X500kw-R	090/2300z
SPC60	MCD3-1	136/1428z
DSS63	MSI	171/1430z
SPC60	VSR	350/1648z
DSS63	EAC	355/1621z

DS BBD Flyby 4a, Flyby 4b, M8D, M9D, + Landmark Nav images for Particle Monitoring, PolyCam Thru Focus Calibration

WOY 13

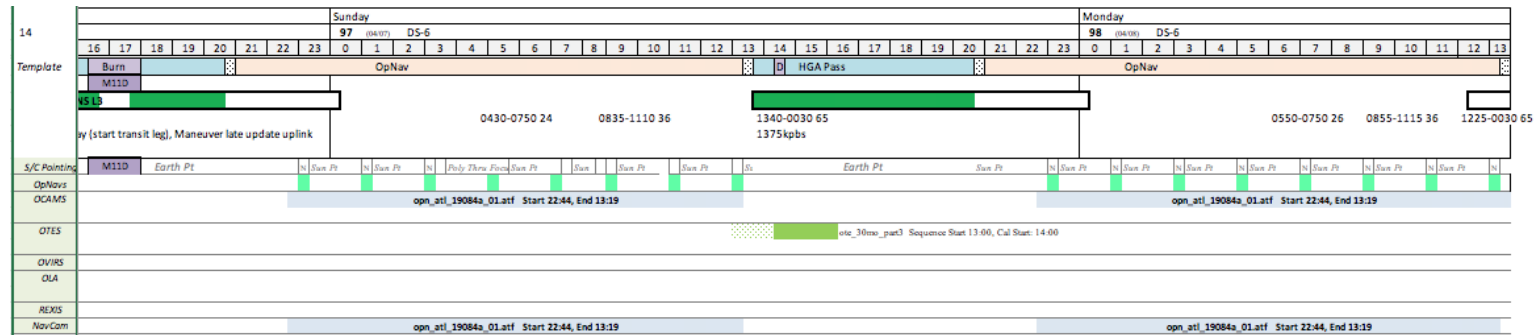
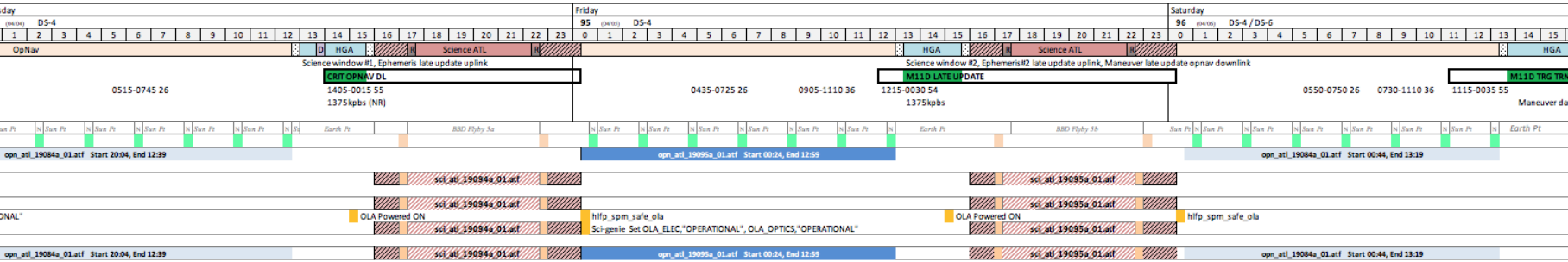
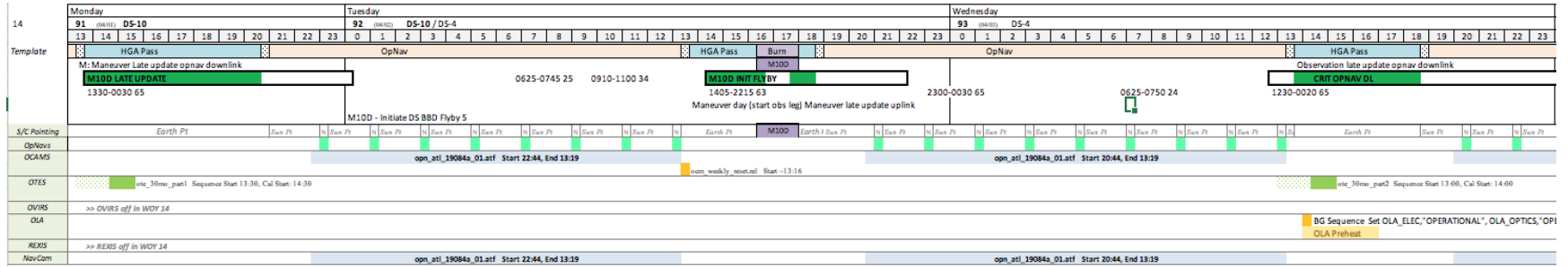


We are HERE



DS BBD Flyby 5a, Flyby 5b, M10D, M11D, + Landmark Nav images for Particle Monitoring, OTES L+30

WOY 14



Uplink Summary

UPLINK

WOY 13 (2019-084 – 2019-091)

- BG Seq, Sci Genies, Payload Sequences [uplinked 2019-081](#)
- Time_shift Sequence for DOY 087 and DOY 088 [uplinked 2019-081](#)
 - Time shift Sequence for DOY 087 Late Update [uplinked 2019-087](#)
 - Adjusted the ATF Start Epoch to: 19:37:28
 - Time shift Sequence for DOY 088 Late Update [uplinked 2019-088](#)
 - Adjusted the ATF Start Epoch to: 19:48:07
- Preliminary Design of M8D and M9D [uplinked 2019-081](#)
- x01dwn_dart_nom_ocmlp2ovr.cfg [uplinked 2019-082](#)
 - This dart file routes OCAMS Low-Priority data to the OVIRS Partition.
 - Will remain active on the S/C thru end of Woy 15
- frame_rexmit_2019_84_lgo.r01 [uplinked 2019-084](#)
 - Retransmit of data gaps in VC 02, 05 and 06 from DOY080

WOY 14 (2019-091 – 2019-098)

- BG Seq, Sci Genies, Payload Sequences [uplinked 2019-088](#)
- Preliminary Design of M10D and M11D [uplinked 2019-088](#)
- Time_shift Sequence for DOY 094 and DOY 095 [uplinked 2019-088](#)

Ephemeris Updates

- Ephemeris Update: od114 [uplinked 2019-085](#)
- Ephemeris Update: od115 [uplinked 2019-087](#)
- Ephemeris Update: od116 [uplinked 2019-088](#)

Execution Summary

Instrument Status:

- OCAMS, OTES, OLA currently powered ON.

Executed (times in UTC):

- 2019/086 (Wednesday, Mar 27) (Downlinking Thursday)
 - Nadir+1-deg Offset OpNav Only (One NavCam pair + One MapCam + One Landmark for Particle Monitoring / 2 hrs)
 - » # of NavCam images expected / received: 27 / **27** (Crit 3)
 - » # of MapCam images expected / received: 9 / **9** (Crit 3)
- 2019/087 (Thursday, Mar 28) (Downlinking Friday)
 - OLA powered on during 087 HGA
 - Nadir+1-deg Offset OpNav Only (One NavCam pair + One MapCam + One Landmark for Particle Monitoring / 2 hrs)
 - » # of NavCam images expected / received: 25 / **24** (Crit 4)
 - » # of MapCam images expected / received: 9 / **8** (Crit 3)
 - BBD Flyby 4a **Time-shift Late Update #1 UTC Time of -40-deg Lat Crossing: 2019/087-19:37:28.174**
 - » Summary: -40 degree Latitude, Nadir pointed Linear Scan collects images every 6° of Bennu rotation for one full rotation. PolyCam is driving instrument. OTES and OLA riding along.
 - » # of PolyCam images expected: 996 (All in OCAMS partition)
 - » OTES Data Vol: 25.77
 - » OVIRS Data Vol: 23.48 MB

Up Next (times in UTC):

- 2019/088 (Friday, Mar 29) (Downlinking Saturday / Sunday)
 - Nadir+1-deg Offset OpNav Only (One NavCam pair + One MapCam + One Landmark for Particle Monitoring / 2 hrs)
 - » # of NavCam images expected : 25 (Crit 5)
 - » # of MapCam images expected : 9 (Crit 5)
 - BBD Flyby 4b **Time-shift Late Update #2 UTC Time of +40-deg Lat Crossing: 2019/088-19:48:07.189**
 - » Summary : +40 degree Latitude Nadir pointed Linear Scan collects images every 6° of Bennu rotation for one full rotation. PolyCam is driving instrument. OTES and OLA riding along.
 - » # of PolyCam images expected: 1057 (496 to OCAMS partition, remainder to OVIRS / Overflow partition)
 - » OTES Data Vol: 25.77
 - » OVIRS Data Vol: 23.48 MB
- 2019/089 (Saturday, Mar 30) (Downlinking Sunday)
 - PolyCam Thru Focus (Sunday morning)
 - # of PolyCam images expected : 15
 - Nadir+1-deg Offset OpNav Only (One NavCam pair + One MapCam + One Landmark for Particle Monitoring / 2 hrs)
 - » # of NavCam images expected : 24
 - » # of MapCam images expected : 8

Downlink Summary

- **Current Data Rate: 1.3 Mbps**

Downlink

- Today's Partition Status :

	Part. Start Vol (MB)	New Data Vol (MB)	Partition Fill (MB)	Expected Partition Fill (%)	Curent End Partition (%)	Comments
<i>OpNav</i>	0.00	297.15	297.15	42.5%	0.00%	
<i>OTES</i>	0.00	25.77	33.30	12.07%	0.00%	
<i>REXIS</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OLA</i>	0.00	23.48	73.48	7.94%	0.00%	
<i>OVIRS</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OCAMS</i>	0.00	2336.71	2343.77	63.47%	58.1%	
<i>Tagcams/Overflow</i>	0.00	0.00	0.00	0.00%	0.00%	

Downlink Summary

- *Tomorrow's Data Rate: 916 kbps*

Downlink

- Tomorrow's Expected Partition Status :

	Part. Start Vol (MB)	New Data Vol (MB)	Partition Fill (MB)	Expected Partition Fill (%)	Expected End Partition (%)	Comments
<i>OpNav</i>	0.00	297.15	297.15	42.45%	0.00%	
<i>OTES</i>	0.00	25.77	33.30	12.07%	0.00%	
<i>REXIS</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OLA</i>	0.00	23.49	73.49	7.94%	0.00%	
<i>OVIRS</i>	0.00	1046.00	1046.00	100.00	0.00%	
<i>OCAMS</i>	2249.27	1163.67	3420.00	92.61	79.12%	
<i>Tagcams/Overflow</i>	0.00	270.16	270.16	34.2	34.2%	

Downlink Summary

- **Sunday's Data Rate: 1.3 Mbps**

Downlink

- Sunday's Expected Partition Status :

	Part. Start Vol (MB)	New Data Vol (MB)	Partition Fill (MB)	Expected Partition Fill (%)	Expected End Partition (%)	Comments
<i>OpNav</i>	0.00	283.76	283.76	40.54%	0.00%	
<i>OTES</i>	0.00	0.00	7.53	2.73%	0.00%	
<i>REXIS</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OLA</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OVIRS</i>	0.00	0.00	0.00	0.00%	0.00%	
<i>OCAMS</i>	2922.07	35.19	2964.32	80.27%	0.00%	
<i>Tagcams/Overflow</i>	270.16	0.00	0.00	34.2%	0.00%	

Need for Retransmit? Need for Replay?

- DOY 088
 - 2 Missing OpNav images (1 NAVCAM, 1 OCAMS) – Per OpNav team no retransmit is required

List of Unexpected Alarms, Watch Items, ISAs, PFRs

Unexpected Alarms

- None

New or Updated Watch Items, ISA's and PFR's

- **ISA # 8809 – SPOC FEDS to SPOCFLIGHT data delivery drop outs**
 - ISA Status: NEW
 - ISA Type: Ground minor
 - ISA Criticality: 3 – minimal impact
- **ISA # 8792 – TAGCAMS unexpected BRAM correctable error count behavior**
 - ISA Status: DRAFT
 - ISA Type: Ground minor
 - ISA Criticality: 3 – minimal impact
- **ISA # 8767 - Re-occurrence: STL intermittent downlink issues during setup**
 - ISA Status: NEW
 - ISA Type: Ground minor
 - ISA Criticality: 3 – minimal impact
- **ISA # 8753 - FR violation confirmed after the fact for xm1912 after discovering it in xm1913 testing**
 - ISA Status: NEW
 - ISA Type: Ground minor
 - ISA Criticality: 3 – minimal impact
- **ISA # 8686 - Missed time shift and ephemeris late update WOY1911 due to weather emergency**
 - ISA Status: NEW
 - ISA Type: Ground major
 - ISA Criticality: 2 – significant impact
- **ISA # 8672 - JPL Firewall Config Changed without LM Notification - affected Matlab license access/use and Maneuver Automation**
 - ISA Status: NEW
 - ISA Type: Ground minor
 - ISA Criticality: 2 – significant impact
- **ISA # 8651 – Frame gap report falsely populated**
 - ISA Status: In Progress
 - ISA Type: Ground minor
 - ISA Criticality: 4 – No Significant Impact
- **ISA #8611 – Unexpected signal seen in OTEs when not expected to be pointed at a target**
 - ISA Status: In Progress
 - ISA Type: S/C Minor
 - ISA Criticality: 3 – minimal impact
- **ISA #8610 – Unexpected signal seen in OVIRS when not expected to be pointed at a target**
 - ISA Status: In Progress
 - ISA Type: S/C Minor
 - ISA Criticality: 3 – minimal impact
- **ISA # 8545 – Delay in MSA FEDS to SPOC FEDS data delivery**
 - ISA Status: In Progress
 - ISA Type: Ground minor
 - ISA Criticality: 3 – minimal impact

Science Status and/or PI Status

Looking Ahead

	12							13							14							15						
	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
	3/18	3/19	3/20	3/21	3/22	###	###	3/25	3/26	3/27	3/28	3/29	###	###	4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8	4/9	4/10	4/11	4/12	###	###
	M	T	W	R	F	Sa	Su	M	T	W	R	F	Sa	Su	M	T	W	R	F	Sa	Su	M	T	W	R	F	Sa	Su
Week 8 - Tactical kickoff	xm1920 - 10:00am / 330° station							xm1921 - 6:00am / 270° station							xm1922 - 8:40pm / 130° station							xm1923 - 6:00pm / 90° station						
Week 7 - SOS	xm1919 - 12:30pm / 0° station							xm1920 - 10:00am / 330° station							xm1921 - 6:00am / 270° station							xm1922 - 8:40pm / 130° station						
Week 6 - J-A 1	xm1918 - 3:20am / 230° station							xm1919 - 12:30pm / 0° station							xm1920 - 10:00am / 330° station							xm1921 - 6:00am / 270° station						
Week 5 - J-A 2	xm1917 - DS - EQ Start - 3:00pm / 45° station							xm1918 - 3:20am / 230° station							xm1919 - 12:30pm / 0° station							xm1920 - 10:00am / 330° station						
Week 4 - TCR approval, Handshake	xm1916 - 12:30 Station - Flyby 7							xm1917 - DS - EQ Start - 3:00pm / 45° station							xm1918 - 3:20am / 230° station							xm1919 - 12:30pm / 0° station						
Week 3 - FA Kickoff	xm1915 - 12:30 Station - Flyby 6							xm1916 - 12:30 Station - Flyby 7							xm1917 - DS - EQ Start - 3:00pm / 45° station							xm1918 - 3:20am / 230° station						
Week 2 - Final Build/Delivery/Test	xm1914 - 12:30 Station - Flyby 5							xm1915 - 12:30 Station - Flyby 6							xm1916 - 12:30 Station - Flyby 7							xm1917 - DS - EQ Start - 3:00pm / 45° station						
Week 1 - Review/Uplink	xm1913 - 10 AM Station - Flyby 4							xm1914 - 12:30 Station - Flyby 5							xm1915 - 12:30 Station - Flyby 6							xm1916 - 12:30 Station - Flyby 7						
Week 0 - Execution	xm1912 - 10 AM Station - Flyby 3							xm1913 - 10 AM Station - Flyby 4							xm1914 - 12:30 Station - Flyby 5							xm1915 - 12:30 Station - Flyby 6						

Looking Ahead – Science Observation Forecast

Task Name	Related DP #	MRD	Baseline Finish	WOY BL Finish
Detailed Survey Science Observations				
Baseball Diamond				
PolyCam Observations				
FlyBy 4A - 10 AM 3.7 km PolyCam Images (PRI.)	IP-4	121a, 121b, 728, 732, 734	3/28/2019	2019-13
FlyBy 4B - 10 AM 3.7 km PolyCam Images (PRI.)	IP-4	121a, 121b, 728, 732, 734	3/29/2019	2019-13
PolyCam Images	IP-4	121a, 121b, 728, 732, 734	3/31/2019	2019-13
FlyBy 5A - 12:30 PM 5 km PolyCam Images (PRI.)	35cm Shape model	687a, 728, 732, 734	4/4/2019	2019-14
FlyBy 5B - 12:30 PM 3.06 km PolyCam Images (PRI.)	IP-4	121a, 121b, 728, 732, 734	4/5/2019	2019-14
FlyBy 6A - 12:30 PM 5 km PolyCam Images (PRI.)	35cm Shape model	687a, 728, 732, 734	4/11/2019	2019-15
FlyBy 6B - 12:30 PM 3.06 km PolyCam Images (PRI.)	IP-4	121a, 121b, 728, 732, 734	4/12/2019	2019-15
OLA Observations				
-40° 10 AM 3.7 km OLA Scans	RIDE ALONG	678b	3/28/2019	2019-13
40° 10 AM 3.7 km OLA Scans	RIDE ALONG	678b	3/29/2019	2019-13
40° 12:30 PM 5 km OLA Scans	RIDE ALONG	678b	4/4/2019	2019-14
-33° 12:30 PM 3.06 km OLA Spots	RIDE ALONG	678b	4/5/2019	2019-14
-40° 12:30 PM 5 km OLA Spots	RIDE ALONG	678b	4/11/2019	2019-15
33° 12:30 PM 3.06 km OLA Spots	RIDE ALONG	678b	4/12/2019	2019-15
OTES Observations				
-40° 10 AM 3.7 km OTES Spectra	RIDE ALONG	121, 728, 732, 734	3/28/2019	2019-13
40° 10 AM 3.7 km OTES Spectra	RIDE ALONG	121, 728, 732, 734	3/29/2019	2019-13
40° 12:30 PM 5 km OTES Spectra	RIDE ALONG	687a, 728, 732, 734	4/4/2019	2019-14
-33° 12:30 PM 3.06 km OTES Spectra	RIDE ALONG	121, 728, 732, 734	4/5/2019	2019-14
-40° 12:30 PM 5 km OTES Spectra	RIDE ALONG	687a, 728, 732, 734	4/11/2019	2019-15
33° 12:30 PM 3.06 km OTES Spectra	RIDE ALONG	121, 728, 732, 734	4/12/2019	2019-15
OVIRS Observations				
Equator, 10 AM, 3.7 km OVIRS Spectra (RED.)		149d, 140a, 183a1, 155	3/29/2019	2019-13

For schedule of upcoming Data Blessings and Data Product completions:
view "Science Data Production" at https://orexwiki.lpl.arizona.edu/wiki/Detailed_Survey

Go Backs / Additional Comments

Redmine Upgrade Reminder

Redmine has been successfully migrated to the new environment. The new links are:

- OREx - <https://spaceredmine2-orex.p.external.lmco.com>
- Citrix - <https://spaceptl2.p.external.lmco.com>

Please ensure you are using the links noted above to access Redmine. Please disregard if you are not a Redmine database user on this project.

Weekly Instrument Status

OCAMS

- On, Nominal

OTES

- On and Nominal, requested Mike Nolan provide feedback on any additional detail needed to go into ISA 8611

OLA

- Off, Nominal

OVIRS

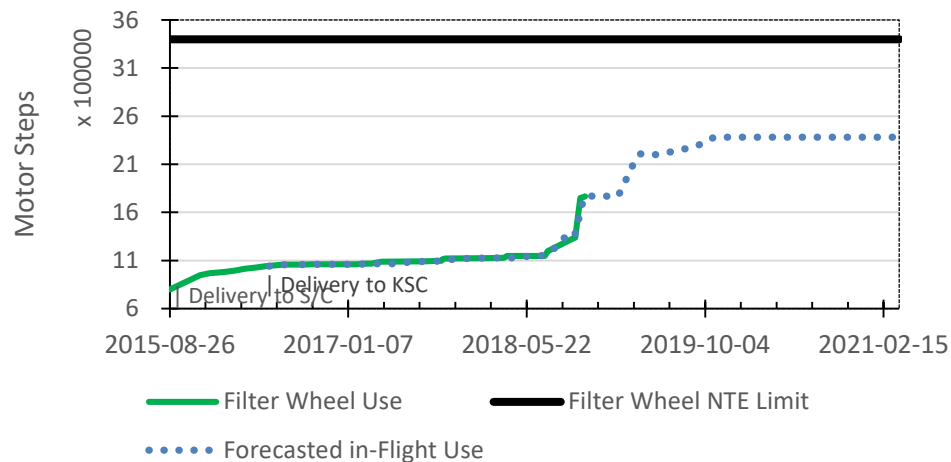
- Off and Nominal, requested Mike Nolan & Karl Harshman provide feedback on what additional information is needed to go into ISA 8610

REXIS

- Off and Nominal

OCAMS Mechanism Life Tracking

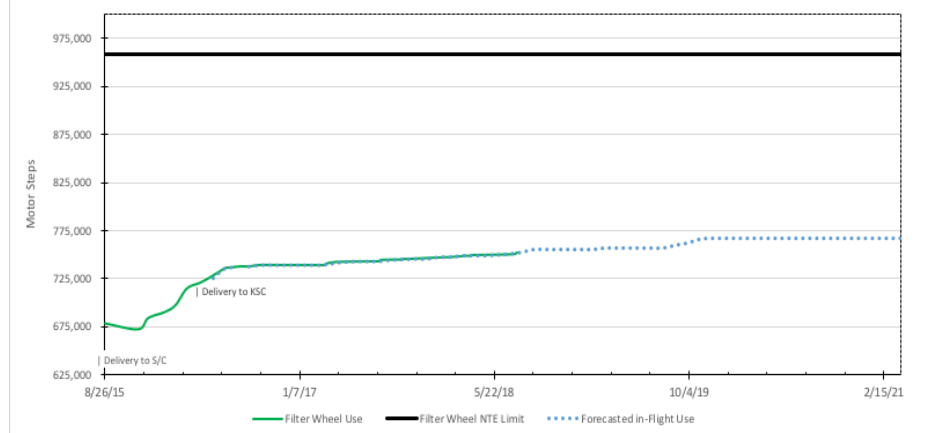
MapCam Flight Filter Wheel Margin



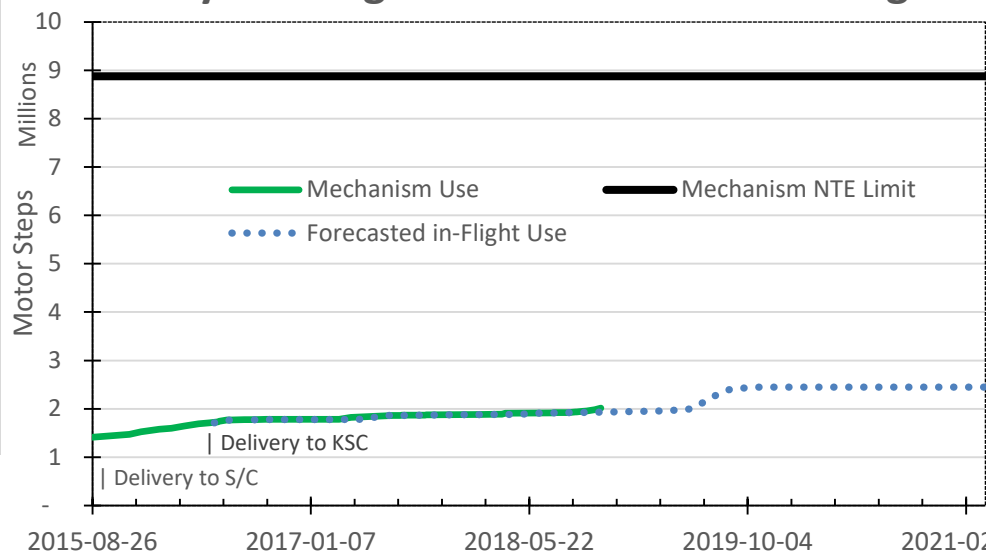
Status as of Feb 22, 2019

	Launch (steps)	Flight (steps)	NTE (steps)
MapCam	1057475	774707	3400320
SamCam	738110	15246	958384
PolyCam	1775496	305594	8876160

SamCam Flight Filter Wheel Margin



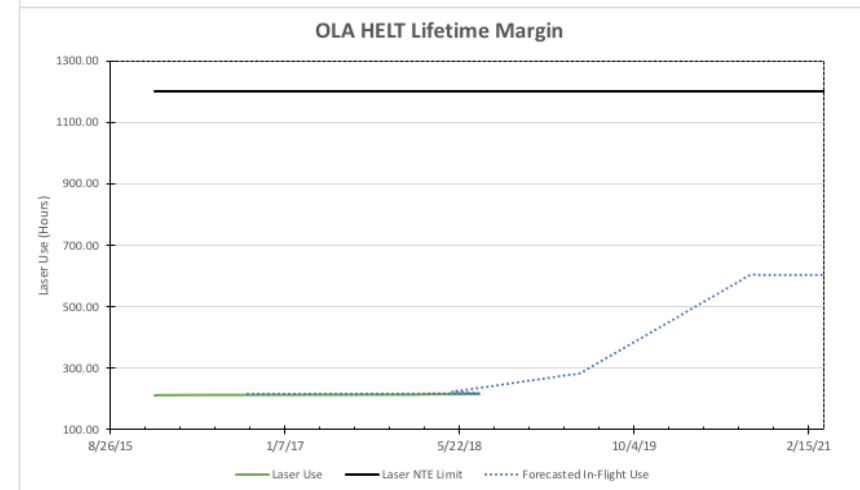
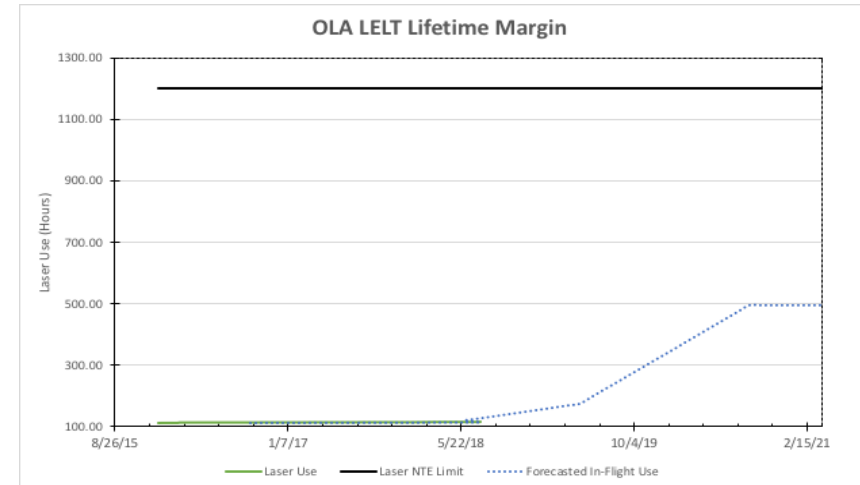
PolyCam Flight Focus Mechanism Margin



OLA Limited Life Laser Tracking

	Launch (hours)	Flight (hours)	NTE Margin (hours)
LELT	110.70	4.29	1,085.01
HELT	212.50	15.12	983.80

Status as of Feb 1, 2019





SPOC Watch Item List

Todays Date: 03/18/2019		SPOC Watch Item List									
Status	Date Added	Date Removed	Item ID	Instrument	Title	Watch Item Description	Impact Type	Watch Item Age	ISA # or TCR #	Watch Item Action	Watch Item Action Plan
Open	9/30/16		Item1	REXIS	CCD Hot Pixels	Some hot pixels were noted on the CCD array.	Hardware Performance	899		Watch	None as of now. If this item trends up, an assessment of masking pixels will need to be made. Update 08/06/2018: REXIS team reports that no additional hot pixels have been noted since the opening of this item, but they will continue to monitor.
Open	4/3/18		Item10	OLA	OLA T0 Intensity	L+10 day, L+6 mo, and L+10 mo On-orbit checkouts showed that OLA's T0 signal intensity (Return Intensity) is an order of magnitude lower than expected as compared with pre-launch spacecraft and stand-alone test data. The L+18 calibrations revealed that the T0 intensity is at pre-launch levels on both the Gold and Silver sides of OLA. SPOC has opted to close ISA 2257 and continue to monitor T0 intensity as a watch item.	Instrument Performance	349		Watch	Monitor the T0 Intensity at the L+22 and L+30 OLA checkouts Update 08/06/2018: Based on results from L+18 and L+22, OLA has not been able to discern a temperature dependency with t0 Intensity value. We will continue to watch, but may never fully understand the cause. OLA can still operate as expected despite the inconsistency seen in the t0 value.
Open	9/5/18		Item11	OCAMS	OCAMS Error on Polycam Startup	During power on of the OCAMS cameras there is the possibility of a 4 byte packet being created due to line noise. SPOCFLIGHT is unsure what to do with this packet, so flags it as an error. So far this has only occurred twice during flight, both times with Polycam but it is possible this could occur with any of the OCAMS cameras. As OCAMS has only been used sparingly during Cruise, it is not certain how frequently this error will occur.	Instrument Performance	194		Watch	Will monitor for future occurrences across all of the OCAMS cameras and assess if any action is warranted.

Anomaly Response & Status

ISA #	Date Created	Type	Priority	Title	Detailed Description - Action Plan	Notes	Status	Resolved Date	Need Date
8651	3/15/19	Ground minor	Normal	Frame gap report falsely populated			In Progress	TBD	TBD
8611	3/7/19	Spacecraft Minor	Normal	Unexpected signal seen in OTES when not expected to be pointed at a target	In observations during the first week of Baseball Diamond observations, the OTES instrument showed signal after it was expected to have slewed off target.		In Progress	TBD	TBD
8610	3/7/19	Spacecraft Minor	Normal	Unexpected signal seen in OVIRS when not expected to be pointed at a target	In observations during the first week of Baseball Diamond observations, the OVIRS instrument showed signal with an asteroid-like spectrum after it was expected to have slewed off target.		In Progress	TBD	TBD
8545	3/8/19	Ground minor	Normal	Delay in MSA FEDS to SPOC FEDS data delivery			In Progress	TBD	TBD
7704	1/10/19	Spacecraft Major	Normal	Potential particles detected in NavCam images while in Bennu Orbit-A Phase	Investigation and detailed image analysis are underway to determine if particles detected in a pair of NavCam images taken on 01/06/19 may have originated from Bennu (or from other causes such as cold traps on the spacecraft, cosmic rays, etc.) MPB convened to determine if it was safe for the spacecraft to remain in orbit and agreed to remain in orbit but to collect more data for the remaining weeks of the orbit phase as a precaution. The details of the additional and more efficient and targeted observations are being worked.		In Progress	TBD	TBD
7518	1/4/19	Ground Major	High	CenturyLink National Outage	A nationwide CenturyLink outage did not allow normal ground activities for OSIRIS-REx including uplink, downlink, and moving data between elements. Outage Start December 27, 2018 08:40 GMT Outage Stop December 29, 2018 10:12 GMT Approximately 50 hours		In Progress	TBD	TBD
7246	12/6/18	Ground Minor	High	FOB connection down	A FOB connectivity issue was discovered when team members were looking for the 12/06/18 downlink of OpNav images (criticality 3) on the FOB. The OpNav images were obtained via SpocFlight. Investigation ongoing.		In Progress	TBD	TBD

Anomaly Response & Status

ISA #	Date Created	Type	Priority	Title	Detailed Description - Action Plan	Notes	Status	Resolved Date	Need Date
6242	10/8/18	Ground Minor	Normal	ASIST issues during AAM-2 OD downlink	<p>ASIST hung twice on the RTO machine, causing a few issues were seen over the past weekend that should be corrected.</p> <p>1 - When the RTO machine was rebooted after the first hung ASIST instance, it was brought up under a FSW account. It turns out that there are some processes that are tied to a Sys account so they did not run (ie, mid-pass queries, etc).</p> <p>2 - ASIST hung a second time between Friday & Saturday, so did not kick off auto-orx in time for Saturday's HGA pass. This required GDS to come in to fix the machine, restart ASIST, and manually run a playback and the post-pass queries. The alert process is tied to auto-orx so GDS was not notified.</p> <p>Two resolutions need to be worked.</p> <ul style="list-style-type: none"> - The RTO machine is due for a refresh and the continued hanging of ASIST may be resolved by this. - Monitoring tools should be set up on a separate machine to ensure that the key components of auto-orx run as expected: <ul style="list-style-type: none"> -- station binding occurs and data flows -- mid-pass query executes and posts to the FOB -- post-pass queries execute and post to the FOB 		In Progress	TBD	TBD
5708	8/22/18	GroundMinor	Normal	FEDS not reconstructing packets that encounter a frame counter rollover	<p>SPOC noticed a missing image line for one image. The image line had a packet in it which one of the frames within rolled over the frame counter. The packet was not reassembled and was not available from the FEDS at both LM and the SPOC.</p>		In Progress	TBD	TBD

Current ISA Status

#	Status	Priority	Subject	Assignee	Updated
8672	New	Normal	JPL Firewall Config Changed without LM Notification - affected Matlab license access/use and Maneuver Automation	Andy Calloway	3/18/19 10:20
8651	In Progress	Normal	Frame gap report falsely populated	Devin Poland	3/15/19 10:19
8611	In Progress	Normal	Unexpected signal seen in OTES when not expected to be pointed at a target	Karl Harshman	3/18/19 9:07
8610	In Progress	Normal	Unexpected signal seen in OVIRS when not expected to be pointed at a target	Karl Harshman	3/18/19 8:52
8545	In Progress	Normal	Delay in MSA FEDS to SPOC FEDS data delivery	Paul Falkenstern	3/15/19 10:18
8542	In Progress	Normal	M3D Late Update Products unable to be Radiated	Mark Fisher	3/15/19 10:17
7994	In Progress	Normal	ACSTBT Overburn	Ryan Olds	2/18/19 12:19
7704	In Progress	Normal	Potential particles detected in NavCam images while in Bennu Orbit-A Phase	Ron Mink	2/1/19 8:22
7518	In Progress	High	CenturyLink National Outages	Andy Calloway	2/22/19 12:06
7246	In Progress	High	FOB connection down	Paul Falkenstern	3/1/19 10:11
6242	In Progress	Normal	ASIST issues during AAM-2 OD downlink - redistribution of tasks between machines	Paul Falkenstern	3/5/19 9:19
5708	In Progress	Normal	FEDS not reconstructing packets that encounter a frame counter rollover	Mark Fisher	3/4/19 10:30