



Daily Downlink Tagup

Wednesday, November 28, 2018 (DOY 332)

OSIRIS-REX™
ASTEROID SAMPLE RETURN MISSION



NOTICE: Daily Downlink Tagup meeting audio will be recorded.

Agenda & Logistics

- Quicklook & Weekly Instrument Status
- 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

NEW! 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

Quicklook + Weekly Instrument Status *(see backup for Instrument Status)*

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										OFF	GO
OTES										OFF	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: 916 kbps**

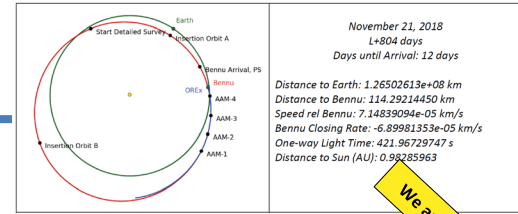
WOY	DOY	Start Date	HGA Start	End Date	HGA End	Duration	Note
47	330	2018-11-26	n/a	2018-11-26	n/a	00:00	<i>No Scheduled Pass</i>
48	331	2018-11-27	13:00	2018-11-27	17:45	04:45	COMPLETE
48	332	2018-11-28	12:35	2018-11-28	16:30	03:55	COMPLETE
48	333	2018-11-29	17:45	2018-11-29	19:30	01:45	1.3 Mbps Rate
48	334	2018-11-30	12:30	2018-11-30	20:35	06:35	<i>1.5 hr outage for MOP</i>
48	335	2018-12-01	12:25	2018-12-01	17:25	05:00	
48	336	2018-12-02	13:15	2018-12-02	20:40	07:25	
49	337	2018-12-03	12:20	2018-12-03	17:20	05:00	<i>~1-1.5 hr outage for M1A</i>

DSN Notes:

Red Equipment Status:

SPC/DSS	EQUIPMENT	ETRO	
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DSS25	AWVR	033/2300z	
DSS63	MSI	333/1530z	Master Equatorial Servo Interface - no impact to today's pass
DSS54	ND-S	347/1530z	Noise Diode Equipment - no impact to upcoming OREX tracks
SPC60	VSR	350/1648z	

Poly Late Shape Model, MOP WOY 48



We are HERE

48	Monday 330 (W26) AP6: Nominal Science Day	Tuesday 331 (W27) AP6: Nominal Science Day	Wednesday 332 (W28) AP6: Nominal Science Day
Template	HGA Pass: 5 Hour	DDOR window ATL: 6 Hour, includes OpNav	DDOR window ATL: 6 Hour, includes OpNav
Sci Plan	NO DSN HGA TIME - NSYT EDL 1 REXIS Crab Nebula Calibration Part 7 of 7	0045-0920 35 1300-1745 65 NEED TO PROTECT THESE HGA HOURS FOR SCIENCE	1950-0115 25 0200-0300 25/35 N/S 0415-0630 35 1235-1630 55 OD1 PolyCam observation
S/C Pointing	5 OCAMS	5 OCAMS	4 OCAMS
OTES			
OVIRES			
OLA			
REXIS			
NAVCAM			

48	Thursday 333 (W29) AP6: OpNav and/or Daily Phase Function Day	Friday 334 (W30) AP6: Maneuver Day, with OpNav and/or Daily Phase Function	Saturday 335 (W31) AP10: Nominal Science Day with extra OpNav
Template	DDOR window A	DDOR window A	DDOR window A
Sci Plan	1950-0310 25 0625-1210 35 1315-1430 65 1745-1930 65 2005-0220 26 DSN ground net maintenance: 1445-1645 Not using this DSN Pass 1.3 M Data Rate	0120-0220 26/34 N/S 0815-1200 36 1230-2035 55 OD1	2125-0355 26 0355-1210 35
S/C Pointing	5 OCAMS	4 OCAMS	5 OCAMS
OTES			
OVIRES	Set OVIRES desat heater to NON-OP : NET 20:00:00 / NLT 23:00:00	Set OVIRES desat heater to OP for MOP : NLT 06:45:00	Set OVIRES desat heater to NON-OP : NET 20:00:00 / NLT 23:00:00
OLA			
REXIS			
NAVCAM			

48	Sunday 336 (202) AP10: Nominal Science Day with extra OpNav	Monday 337 (203) AP10/PS1: Nominal Science Day with extra OpNav/ Polar Flyover with Scier
Template	DDOR window ATL: 6 Hour, includes OpNav	DDOR window ATL: 6 Hour, includes OpNav
Sci Plan	1225-1725 55 15:47 NEED TO PROTECT THESE HGA HOURS FOR SCIENCE 1955-2310 26 0210-0310 14/36 N/S 0425-1155 36	1315-2040 54 2030-0420 25 MIP Late update 0410-1140 36 Start of Preliminary Survey Phase
S/C Pointing	3 OCAMS	3 OCAMS
OTES		
OVIRES	otes_pwr_on Start NLT 23:30:00	otes_pwr_on Start NLT 23:30:00
OLA		
REXIS		
NAVCAM		



Uplink Summary

UPLINK

WOY 48 (2018-330 – 2018-337)

- xm1848 BGSeq, Sci Genies, Payload Sequences [uplinked 2018-327 at 16:00](#)

Ephemeris Updates

- Ephemeris Update : od062 [uplinked 2018-321 at 13:21](#)
- Ephemeris Update : od063 [uplinked 2018-325 at 13:45](#)
- Ephemeris Update : od064 [uplinked 2018-328 at 15:20](#)

Config Files

- Preliminary Survey Default Slew Config files [uplinked 2018-331 at 15:15](#)
- MOP [uplinked 2018-331 at 15:43](#)



Execution Summary

Instrument Status:

- OCAMS Powered ON. All other Payloads powered OFF

Executed (times in UTC):

- 2018/331 (Tuesday, Nov 27)
 - Poly Late Shape Model begins at 04:40
 - # of images expected/received: 308 / **308**
 - OpNavs, NavCam (OpNav & NSS) start at 09:47
 - # of images expected: 36 / **36** MapCam, 4 / **4** NavCam Opnav, 4 / **4** NavCam NSS
- 2018/332 (Wednesday, Nov 28)
 - Poly Late Shape Model begins at 04:40
 - # of images expected: 414 / **414**
 - MapCam OpNavs, NavCam (OpNav & NSS) start at 09:47
 - # of images expected: 36 / **36** MapCam, 4 / **4** NavCam Opnav, 4 / **4** NavCam NSS
 - Set OVIRS Decon Heater to Non-OP Set Pts NET 20:00 (reminder that this will be set back to OP 8 hrs before MOP)

Up Next (times in UTC):

- 2018/333 (Thursday, Nov 29)
 - OpNavs, NavCam (OpNav & NSS)
 - # of images expected: 36 MapCam, 4 NavCam Opnav, 4 NavCam NSS
- 2018/334 (Friday, Nov 30)
 - OpNavs, NavCam (OpNav & NSS)
 - # of images expected: 36 MapCam, 4 NavCam Opnav, 4 NavCam NSS
- 2018/335 (Saturday, Dec 1)
 - Poly Late Shape Model
 - # of images expected: 613
 - MapCam OpNavs, NavCam (OpNav & NSS)
 - # of images expected: 36 MapCam, 4 NavCam Opnav, 4 NavCam NSS

Downlink Summary

- **Current Data Rate: 916 kbps**

Downlink

- Current Partition Status :

	Part. Start Vol (MB)	New Data Vol (MB)	Partition Fill (MB)	Expected Partition Fill (%)	Current End Partition (%)	Comments
<i>OpNav</i>	0.00	165.16	165.16	23.59	0.00	
<i>OTES</i>	0.00		0.00	0.00	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>	0.00	971.28	978.34	26.49	0.00	
<i>Tagcams/Overflow</i>	0.00	0.00	0.00	0.00	0.00	

Downlink Summary

Looking ahead

- Expected Partition Status going into the next pass, scheduled for DOY 333:

	Part. Start Vol (MB)	New Data Vol (MB)	Partition Fill (MB)	Expected Partition Fill (%)	Expected End Partition (%)	Comments
<i>OpNav</i>	0.00	165.16	165.16	23.59	0.00	
<i>OTES</i>	0.00	0.00	0.00	0.00	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>	0.00	7.06	7.06	0.19	0.00	
<i>Tagcams/Overflow</i>	0.00	0.00	0.00	0.00	0.00	

Need for Retransmit? Need for Replay?

- No gaps reported for today's downlink

List of Unexpected Alarms, Watch Items, ISAs, PFRs

Alarms

Watch Items, ISA's and PFR's

- **ISA # TBD**
 - 3 APID 93 (REXIS HK) packets came down identified as APID 84 (OLA Unrecognized)
- **ISA # 6981 – Wrist spring-back appears to be more than expected**
 - Date of Incident: Nov 20, 2018
 - Status: New
 - Anomaly Type: Spacecraft Minor
- **ISA # 6943 – TAGCAMS BRAM Status Register**
 - Date of Incident: Nov 18, 2018
 - Status: Draft
 - Anomaly Type: Ground Minor
- **PFR-34 - REXIS producing many more counts than expected**
 - The total data volume increase is ~7X
- **PFR-35 - REXIS spectral shift**

Science Status and/or PI Status

- There will be a Science Weekly this Thursday, 11/29

Looking Ahead

		2018																											
		48						49						50						51									
		330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357
		11/26	11/27	11/28	11/29	11/30	####	####	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	####	12/16	12/17	12/18	12/19	12/20	12/21	####	####
		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		xm1904 - Orbital A, OpNav only						xm1905 - L+30 C/o & Cals, Orbital A OpNavs						xm1906 - Orbital A						xm1907 - Orbital A									
Week 7 - SOS		xm1903 - Orbital A, OpNav only						xm1904 - Orbital A, OpNav only						xm1905 - L+30 C/o & Cals, Orbital A OpNavs						xm1906 - Orbital A									
Week 6 - J-A 1		xm1902 - Orbital A, OpNav only						xm1903 - Orbital A, OpNav only						xm1904 - Orbital A, OpNav only						xm1905 - L+30 C/o & Cals, Orbital A OpNavs									
Week 5 - J-A 2		xm1901 - Orbital A, OpNav only						xm1902 - Orbital A, OpNav only						xm1903 - Orbital A, OpNav only						xm1904 - Orbital A, OpNav only									
Week 4 - TCR approval, Handshake		xm1852 - Trans to Orbital A						xm1901 - Orbital A, OpNav only						xm1902 - Orbital A, OpNav only						xm1903 - Orbital A, OpNav only									
Week 3 - FA Kickoff		xm1851 - Pre Surv Wk 3						xm1852 - Trans to Orbital A						xm1901 - Orbital A, OpNav only						xm1902 - Orbital A, OpNav only									
Week 2 - Final Build/Delivery/Test		xm1850 - Pre Surv Wk 2						xm1851 - Pre Surv Wk 3						xm1852 - Trans to Orbital A						xm1901 - Orbital A, OpNav only									
Week 1 - Review/Uplink		xm1849 - Pre Surv Wk 1						xm1850 - Pre Surv Wk 2						xm1851 - Pre Surv Wk 3						xm1852 - Trans to Orbital A									
Week 0 - Execution		xm1848						xm1849 - Pre Surv Wk 1						xm1850 - Pre Surv Wk 2						xm1851 - Pre Surv Wk 3									

Looking Ahead

Observation completion forecast dates:

Source Phase	WG	Task Name	Related DP #	MRD	Baseline Finish	WOY BL Finish
Approach		Approach Observations				
Approach		PolyCam Observations				
Approach	Obs_PolyCam	PolyCam Shape Model: PolyCam Images (RED.)	Pre-Rel 75cm Shape model	678a	11/27/2018	2018-48
Approach	Obs_PolyCam	PolyCam Shape Model: PolyCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	11/28/2018	2018-48
Approach	Obs_PolyCam	PolyCam Shape Model: PolyCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	12/1/2018	2018-48
Approach	Obs_PolyCam	PolyCam Shape Model: PolyCam Images (RED.)	Pre-Rel 75cm Shape model	678a	12/2/2018	2018-48
Approach		OTES Observations				
Approach	Obs_OTES	OTES Spectra (Optimized for OVIRS)	SA-10, SA-11, TA-008	159, 544	12/2/2018	2018-48
Approach		OVIRS Observations				
Approach	Obs_OVIRS	OVIRS Phase: OVIRS Spectra (PRI.)	SA-28	149d	12/2/2018	2018-48
Pre_Surv		Preliminary Survey Observations				
Pre_Surv		MapCam Observations				
Pre_Surv	Obs_MapCam	Distant/Close MapCam Shape Model: MapCam Images (RED.)	Pre-Rel 75cm Shape model	678a	12/4/2018	2018-49
Pre_Surv	Obs_MapCam	Distant MapCam Shape Model: MapCam Images (RED.)	Pre-Rel 75cm Shape model	678a	12/5/2018	2018-49
Pre_Surv	Obs_MapCam	Distant/Close MapCam Shape Model: MapCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	12/8/2018	2018-49
Pre_Surv	Obs_MapCam	Distant MapCam Shape Model: MapCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	12/9/2018	2018-49
Pre_Surv	Obs_MapCam	MapCam High Angle Phase Fcn: MapCam Images (PRI.)	Pre-Rel 75cm Shape model, IP-13	149a, 149b, 149c	12/11/2018	2018-50
Pre_Surv	Obs_MapCam	Distant/Close MapCam Shape Model: MapCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	12/12/2018	2018-50
Pre_Surv	Obs_MapCam	MapCam Shape Model MapCam Images (PRI.)	Pre-Rel 75cm Shape model, IP-13	678a	12/13/2018	2018-50
Pre_Surv	Obs_MapCam	MapCam Phase Fcn: MapCam Images (PRI.)	Pre-Rel 75cm Shape model, IP-13	149a, 149b, 149c	12/13/2018	2018-50
Pre_Surv	Obs_MapCam	MapCam Phase Fcn: MapCam Images (PRI.)	Pre-Rel 75cm Shape model, IP-13	149a, 149b, 149c	12/14/2018	2018-50
Pre_Surv	Obs_MapCam	MapCam Phase Fcn: MapCam Images (PRI.)	Pre-Rel 75cm Shape model, IP-13	149a, 149b, 149c	12/15/2018	2018-50
Pre_Surv	Obs_MapCam	Distant/Close MapCam Shape Model: MapCam Images (PRI.)	Pre-Rel 75cm Shape model	678a	12/16/2018	2018-50
Pre_Surv		OLA Observations				
Pre_Surv	Obs_OLA	OLA Shape model: OLA Scans (RED.)		124, 127, 128, 129	12/4/2018	2018-49
Pre_Surv	Obs_OLA	OLA Shape model: OLA Scans (PRI.)	ALT-06	124, 127, 128, 129	12/8/2018	2018-49
Pre_Surv	Obs_OLA	OLA Shape model: OLA Scans (PRI.)	ALT-06	124, 127, 128, 129	12/12/2018	2018-50
Pre_Surv	Obs_OLA	OLA Shape model: OLA Scans (PRI.)	ALT-06	124, 127, 128, 129	12/16/2018	2018-50
Pre_Surv		OTES Observations				
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/4/2018	2018-49
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/5/2018	2018-49
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/8/2018	2018-49
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/9/2018	2018-49
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/12/2018	2018-50
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/13/2018	2018-50
Pre_Surv	Obs_OTES	OTES Spectra	RIDE ALONG		12/16/2018	2018-50
Pre_Surv		OVIRS Observations				
Pre_Surv	Obs_OVIRS	OVIRS Spectra	RIDE ALONG		12/8/2018	2018-49
Pre_Surv	Obs_OVIRS	OVIRS Spectra	RIDE ALONG		12/9/2018	2018-49
Pre_Surv	Obs_OVIRS	OVIRS Spectra	RIDE ALONG		12/12/2018	2018-50
Pre_Surv	Obs_OVIRS	OVIRS Spectra	RIDE ALONG		12/13/2018	2018-50
Pre_Surv	Obs_OVIRS	OVIRS Spectra	RIDE ALONG		12/16/2018	2018-50

Go Backs / Additional Comments

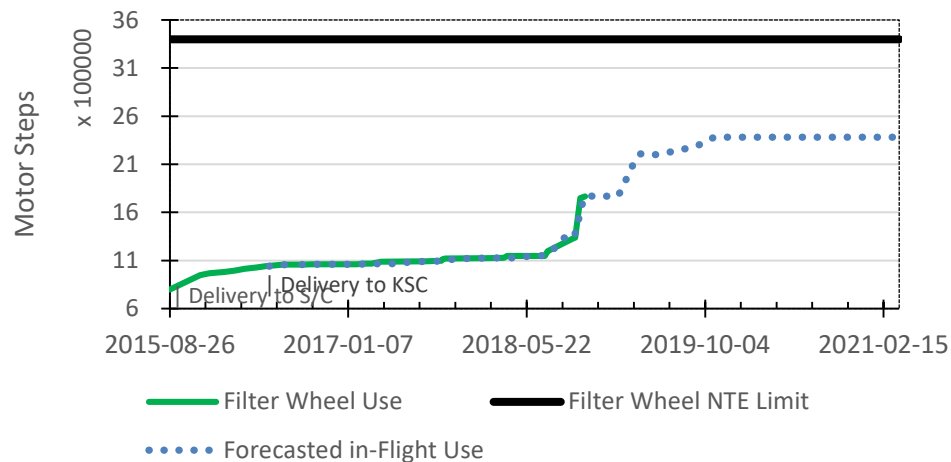
Backup

Weekly Instrument Status

- **OCAMS – ON and nominal**
 - We are up to ~550 pixels in MapCam fov.
- **OLA - off, nominal**
- **OTES - nominal**
- **OVIRS - nominal**
- **REXIS - off and nominal. Some yellow alarms seen on 11-25. Both alarms returned back to nominal voltages. (see Slide 13)**

OCAMS Mechanism Life Tracking

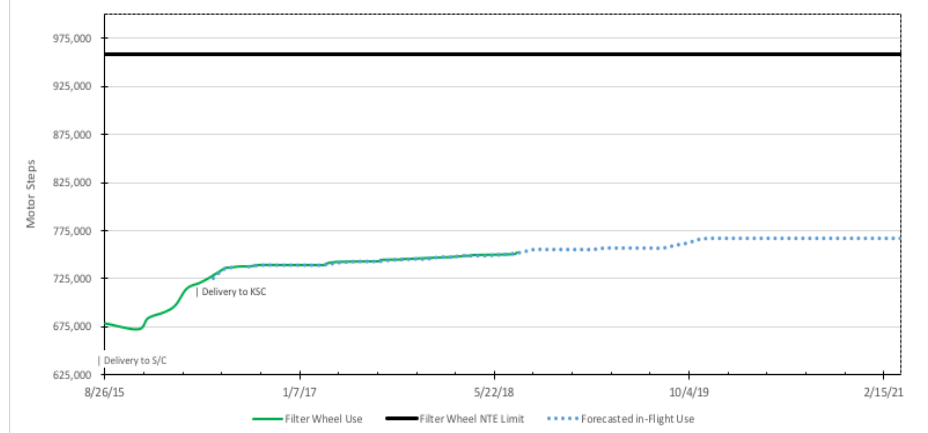
MapCam Flight Filter Wheel Margin



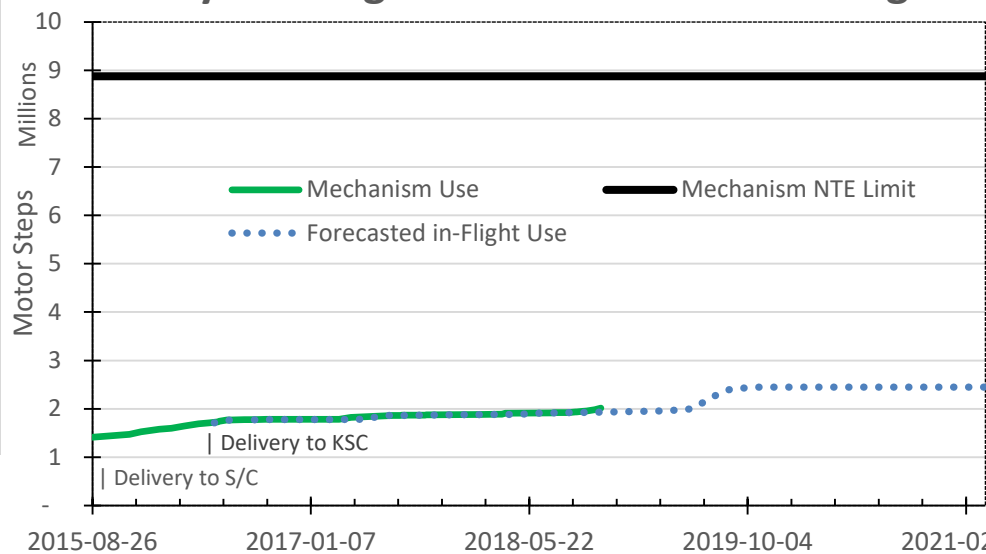
Status as of November 2, 2018

	Launch (steps)	Flight (steps)	NTE (steps)
MapCam	1057475	706833	3400320
SamCam	738110	14525	958384
PolyCam	1775496	237062	8876160

SamCam Flight Filter Wheel Margin



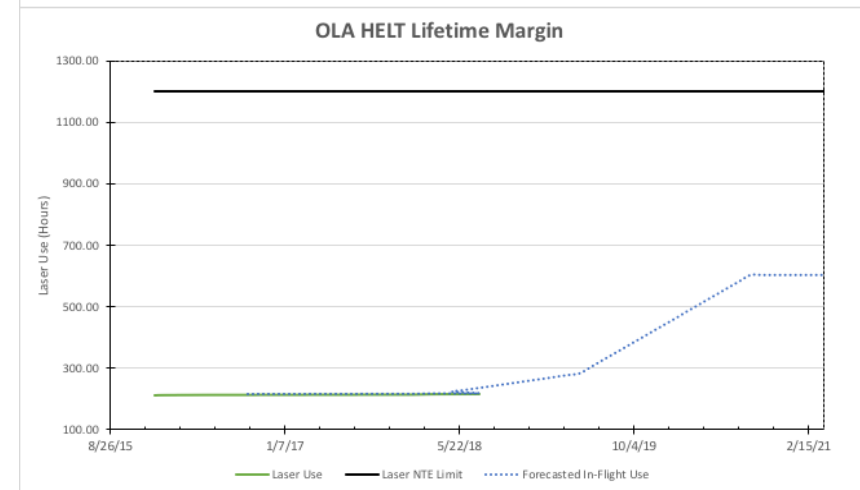
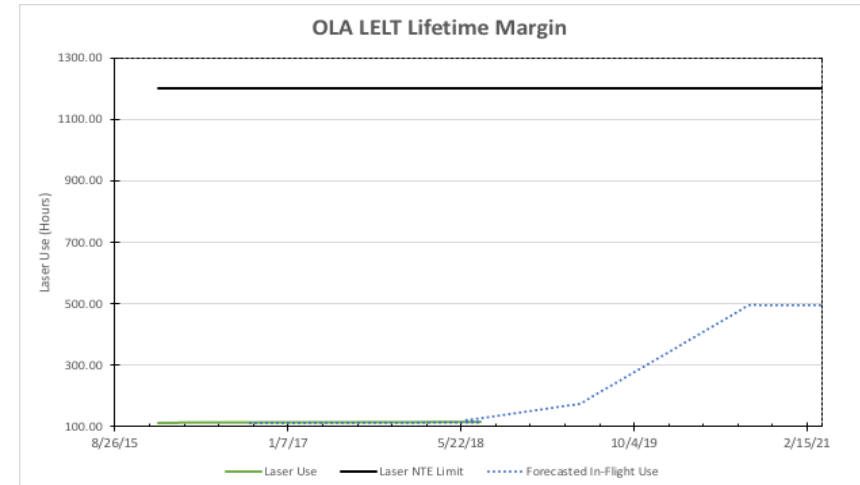
PolyCam Flight Focus Mechanism Margin



OLA Limited Life Laser Tracking

	Launch (hours)	Flight (hours)	NTE Margin (hours)
LELT	110.70	4.29	1,085.01
HELT	212.50	3.70	983.80

Status as of November 2, 2018





SPOC Watch Item List

Todays Date: 11/27/2018		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	788		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	238		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	83		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
6747	11/6/18	Ground Minor	Normal	Missed OVIRS Full Disk Observation on DOY 310	<p>An alarm was flagged early on DOY 310 morning noting 108 rejected commands for OCAMS. When the SPOC looked into this, it was pin-pointed that the rejected commands occurred when running sci_atl_18307a_01 today (OVIRS Full disk spectra redundant obs). After reviewing the post-execution Integrated Report, SPOC confirmed that there were EVRs indicating that the sequences that needed to be run in sci_atl_18307a_01 could not be loaded by the Spacecraft.</p> <p>SPOC documented in both the UPBL and the FA that all sequences contained within sci_atl_18307a_01 would be self-deleting, with exception to ocm_app_18307_science_001 (which is re-used within the ATF, and therefore not self-deleting), and indicated that we would need to re-uplink the 307 products ahead of the 310 execution. Based on the OD analysis that was completed post-AAM3, we proceeded to run sci_atl_18307a_01 on DOY 307, and the sequences (excluding ocm_app_18307_science_001) were deleted from the S/C (as expected). Upon discussion today, MSA indicated that they had in fact uplinked a 2nd copy of the sequences for sci_atl_18307a_01, however these were uplinked on DOY 306 with the rest of the xm1845 products, prior to the 307 activity, so when the 307 activity ran, the sequences were deleted, and were not re-uplinked afterwards in preparation for the contingency OVIRS Full Disk activity scheduled for 310.</p> <p>The root cause of the issue is therefore that there was a failure to recognize the specific time constraint associated with the re-uplink of the sci_atl_18307a_01 sequences.</p>		In Progress	TBD	TBD
6592	10/24/18	Ground Minor	Normal	Planned ATFs not executable after new OD delivery for WOY44			In Progress	TBD	TBD
6320	10/12/18	Ground Minor	Normal	Delay in data processing at the SPOC	On Saturday 10/6/2018 the data processing at the SPOC was delayed after the LM FEDS was not sending data to the SPOC FEDS until after intervention by LM GDS.		In Progress	TBD	TBD
6292	10/9/18	Ground Minor	Normal	Issues accessing OREx Redmine via RAMP	There have been a number of issues accessing Redmine via RAMP (direct access without having to go the Citrix). Problems such as certain actions on a particular issue number being persistently blocked for a user by the firewall. This is a running ISA to report and log individual instances:		Monitor	TBD	TBD
6291	10/9/18	Ground Minor	Normal	Issues accessing OREx Redmine via Citrix Receiver	There have been a number of issues accessing Redmine via the Citrix Receiver. Mostly the problems occur when opening Citrix. This is a running ISA to report and log individual instances:		Monitor	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
6163	9/29/18	Spacecraft Minor	Normal	Delay in execution of OCAMS block	<p>There was an EVR seen in the 1841 STL test due to an attempt to load an OCAMS sequence while the previous sequence is still running in the same engine. This overlap did not occur in SS or OLVM. It appears that, in the STL, a delay is being introduced each time the ocm_map_filter_alt_other block cycles. This delay is only ~100ms each time, but the block runs hundreds of times throughout the ATL, so the total delay is ~27 seconds by the time the next OCAMS sequence tries to load. From preliminary investigation, it appears to be related to spacecraft time being used in a delay.</p>		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
4762	5/3/18	Ground Minor	Normal	JAsteroid and ATARPS FOV disagreement	<p>JAsteroid did not show that Benuu was in the star tracker field of view but ATARPS did, even when using the same initial conditions. There is concern that this may also extend past just the ST FOV. This needs further investigation.</p>	6/15/18: All data has been provided to MSA for analysis	Monitor	9/28/18	TBD

Current ISA Status

#	Status	Priority	Subject	Assignee	Updated
6981	In Progress	Normal	Wrist spring-back appears to be more than expected	Mark Fisher	11/23/18 15:50
6943	In Progress	Normal	TAGCAMS BRAM Status Register	Brent Bos	11/23/18 15:56
6914	In Progress	Normal	NavCam 1 Image Repeating 8x1 Pixel Spurious Pattern	Brent Bos	11/23/18 15:51
6836	In Progress	Normal	AAM-4 Products Not Radiated Durning Uplink Window	Sandy Freund	11/23/18 15:52
6747	In Progress	Normal	Missed OVIRS Full Disk Observation on DOY 310	Devin Poland	11/12/18 14:51
6476	In Progress	Normal	STL intermittent downlink issues during setup	Mike Skeen	10/19/18 9:12
6292	Monitor	Normal	Issues accessing OREx Redmine via RAMP - Multiple Instances	OSIRIS-REx Mission Management	11/26/18 12:32
6291	Monitor	Normal	Issues accessing OREx Redmine via Citrix Receiver - Multiple Instances	OSIRIS-REx Mission Management	10/12/18 7:45
6242	In Progress	Normal	ASIST issues during AAM-2 OD downlink	Paul Falkenstern	10/12/18 7:48
6163	In Progress	Normal	Delay in execution of OCAMS block	Andy Calloway	11/12/18 10:33
5708	In Progress	Normal	FEDS not reconstructing packets that encounter a frame counter rollover	Mark Fisher	11/15/18 13:32
5701	In Progress	Normal	Missing Downlink Table during Station 55 pass on 18229	Andy Calloway	10/26/18 6:25
4868	In Progress	Normal	Dropped data during STL run	Mike Skeen	5/25/18 9:45