



xm1845: OTES Full-Disk Integrated Spectroscopy & Natural Satellite Search

Week 8 – Tactical Kickoff

Week 6 - J-Asteroid 1
Week 5 - J-Asteroid 2
Week 4 - TCR approval and Handshake
Week 3 - Flight Activity Kickoff
Week 2 - Final Implementation/Delivery
Week 1 - Review/Uplink
Week 0 - Execution

- Week 2018-45
- Week: 11/5/2018 (DOY 309) T12:00:00 – 11/12/2018 (DOY 316) T12:00:00
- SPT: Zoe Zeszut
- Ops Engineer: Sara Knutson
- WGs and Instruments: AWG, OCAMS, PMWG, OTES, OVIRS, SAWG, TAWG, AltWG
- SOS: Full-Disk OTES Integrated Spectroscopy SOCR-83, Natural Satellite Search SOCR-99, OVIRS Solar Calibration SOCR-88, Daily Phase Function SOCR-84, NavCam Natural Satellite Search SOCR-112
- OPSCHK: 61
- Science Activities:
 - 11/5/2018 (DOY 309) – OTES nadir point (plus OVIRS and PolyCam)
 - 11/6/2018 (DOY 310) – short MapCam nadir point & short NavCam nadir point
 - 11/7/2018 (DOY 311) – short MapCam nadir point & short NavCam nadir point & OVIRS solar cal
 - 11/8/2018 (DOY 312) – short MapCam nadir point & short NavCam nadir point
 - 11/9/2018 (DOY 313) – OTES nadir point (plus OVIRS and PolyCam) & short MapCam nadir point & short NavCam nadir point
 - 11/10/2018 (DOY 314) – MapCam point and stare mosaic & short NavCam nadir point
 - 11/11/2018 (DOY 315) – MapCam point and stare mosaic & short NavCam nadir point
 - 11/12/2018 (DOY 316) – Shape model science activities planned in following week & short NavCam nadir point
- Default attitude: Sun point
- Slew config: Approach 1



Approach Phase Planning Waterfall



Science Phase	Approach																																																																																																																				
	August 2018							SEPTEMBER 2018							SEPTEMBER 2018							OCTOBER 2018							OCTOBER 2018																																																																																								
	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	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	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	M	T	W	R	F	Sa	Su																																																							
DOY	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294																																																						
WOY	34							35							36							37							38							39							40						41						42																																																														
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Reference trajectory delivery																																																																																																																					
SOPG Phase Kickoff																																																																																																																					
Week 8 - Tactical kickoff	Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																																																													
Week 7 - SOS	Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																																																						
Week 6 - J-Asteroid 1	Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																																															
Week 5 - J-Asteroid 2	Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																																								
Week 4 - TCR approval and Handshake	OpNav only wk 38							Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																																	
Week 3 - Flight Activity Kickoff	Dust Search wk 37							OpNav only wk 38							Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																										
Week 2 - Final Implementation/Delivery	OpNav only wk 36							Dust Search wk 37							OpNav only wk 38							Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50																			
Week 1 - Review/Uplink	OpNav only wk 35							OpNav only wk 36							Dust Search wk 37							OpNav only wk 38							Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50												
Week 0 - Execution	OpNav only wk 34							OpNav only wk 35							OpNav only wk 36							Dust Search wk 37							OpNav only wk 38							Phase Function wk 39							Daily Phase wk 40							Light Curve wk 41							Phase Function 2 wk 42							Natural Satellite wk 43							OVIRS Spectra wk 44							OTES Spectra wk 45							Early Shape Model wk 46							Early Shape Model wk 47							Late Shape Model wk 48							Prelim Survey 1 wk 49						Prelim Survey 2 wk 50					
Observations																																																																																																																					
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>REXIS Cover Opening</p> </div> <div style="text-align: center;"> <p>PolyCam/MapCam</p> </div> <div style="text-align: center;"> <p>Dust Search</p> </div> <div style="text-align: center;"> <p>Phase Function</p> </div> <div style="text-align: center;"> <p>Daily Phase</p> </div> <div style="text-align: center;"> <p>Light Curve</p> </div> <div style="text-align: center;"> <p>REXIS CXB</p> </div> <div style="text-align: center;"> <p>Phase Function</p> </div> </div>																																																																																																																				



xm1845 Planning Schedule

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Activity	Start Date	Finish Date	Status
SPT populates SOS from SPP	9/10/2018	9/10/2018	Complete
Tactical Kickoff	9/11/2018	9/11/2018	
IS populates SOS with input from WG	9/12/2018	9/17/2018	
Integrated Spectroscopy: OTES	9/12/2018	9/12/2018	
Integrated Spectroscopy: OVIRS	9/13/2018	9/13/2018	
Integrated Spectroscopy: OCAMS	9/14/2018	9/14/2018	
J-Asteroid sandboxing and check of SOS	9/18/2018	9/24/2018	
OpNav Request	9/17/2018	9/17/2018	
SOS sent for review	9/21/2018	9/21/2018	
WG and IS review SOS	9/24/2018	10/1/2018	
New SOCR and kernel submission deadline	9/25/2018	9/25/2018	
SPT IS IE OpsEng build J-Asteroid Plan	9/26/2018	10/3/2018	
Deliver First Look CK to WG Leads	9/28/2018	9/28/2018	
SOCR approval	10/2/2018	10/2/2018	
Ops Eng deliver IS/IE review Material	10/4/2018	10/4/2018	
J-Asteroid Reconciliation with SPT OpsEngineer IS and IE.	10/5/2018	10/5/2018	
Week TCR for BG sequence and science populated	10/8/2018	10/8/2018	
Deliver OpNav Checklist to FDS	10/4/2018	10/4/2018	
TCR approval	10/10/2018	10/10/2018	
Handshake to Implementation	10/10/2018	10/10/2018	
Delivery to MSA	10/24/2018	10/24/2018	



Data Product Completion Forecast

Observation completion forecast dates:

WG	Task Name	DP#	MRD	Start	Finish	WOY Finish
Obs_MapCam	Daily Phase Function: MapCam Images (PRIMARY)		149a, 149b, 149c, 158		11/6/2018	45
Obs_MapCam	Daily Phase Function: MapCam Images (PRIMARY)		149a, 149b, 149c, 158		11/7/2018	45
Obs_MapCam	Daily Phase Function: MapCam Images (PRIMARY)		149a, 149b, 149c, 158		11/8/2018	45
Obs_MapCam	Daily Phase Function: MapCam Images (PRIMARY)		149a, 149b, 149c, 158		11/9/2018	45
Obs_PolyCam	PolyCam Shape Model: PolyCam Images		678a		11/9/2018	45
Obs_OTES	OTES Full Disk Spectra: OTES Spectra (Optimized for OTES)		159, 544		11/9/2018	45
Obs_OVIRS	OTES Full disk spectra: OVIRS Spectra (Optimized for OTES)		159		11/9/2018	45
Obs_MapCam	Nat. Sat. Search: MapCam Images		144		11/10/2018	45
Obs_PolyCam	Nat Sat Search: PolyCam Images		144		11/10/2018	45
Obs_MapCam	Nat. Sat. Search: MapCam Images		144		11/11/2018	45
Obs_PolyCam	Nat Sat Search: PolyCam Images		144		11/11/2018	45

Validated L2 Data available forecast dates (includes 1 weekday for Downlink)

WG	Task Name	DP#	MRD	Start	Finish	WOY Finish
L2-from-MapCam	Daily Phase Fcn & Nat. Sat. Search: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	10/29/2018	11/5/2018	45
L2-from-MapCam	Daily Phase Fcn & Nat. Sat. Search: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	10/29/2018	11/5/2018	45
L2-from-MapCam	Daily Phase Function: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	10/29/2018	11/5/2018	45
L2-from-PolyCam	Nat Sat Search: PolyCam Images validated		144	10/29/2018	11/5/2018	45
L2-from-PolyCam	Nat Sat Search: PolyCam Images validated		144	10/29/2018	11/5/2018	45
L2-from-MapCam	Daily Phase Fcn & Nat. Sat. Search: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	10/30/2018	11/6/2018	45
L2-from-PolyCam	Daily Phase Function: PolyCam Images validated		144	10/30/2018	11/6/2018	45
L2-from-MapCam	Daily Phase Fcn & Nat. Sat. Search: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	10/31/2018	11/7/2018	45
L2-from-PolyCam	Daily Phase Function: PolyCam Images validated		144	10/31/2018	11/7/2018	45
L2-from-MapCam	Daily Phase Function: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	11/1/2018	11/8/2018	45
L2-from-MapCam	Daily Phase Function: MapCam Images (PRIMARY) validated		149a, 149b, 149c, 158	11/2/2018	11/9/2018	45
L2-from-MapCam	Daily Phase Function: MapCam Images (REDUNDANT) validated		149a, 149b, 149c, 158	11/2/2018	11/9/2018	45
L2-from-PolyCam	PolyCam Shape Model: PolyCam Images validated		678a	11/2/2018	11/9/2018	45

Science Data Product completion forecast dates:

WG	Task Name	DP#	MRD	Start	Finish	WOY Finish
	N/A					