

TOTAL					40315	Note: the Ops Team defines a day as 13:30 - 13:30 UTC; I define one as 00 - 24.
Epoch	YR	WOY	DOY	Date and Time (approx.)	# images	Description
Launch + 14 day Checkout	2016	38	263	2016 09 19 21:08:00.000	150	Health Check: Darks, Lamps, Star Images
MapCam Long Exposure Platform Stability Test	2016	40	278	2016 10 04 15:14:00.000	6	Platform Stability Test: Darks and Star Images
DOY 40 Earth-Trojan Asteroid Search (ETAS) Day 1	2017	6	40	2017 02 09 05:20:00.000	163	Earth Trojan Asteroid Search (ETAS) and Optical Navigation Test: Darks and Star Images
DOY 41 ETAS Day 2	2017	6	41	2017 02 10 05:20:00.000	163	ETAS and OpNav Test: Darks and Star Images
DOY 42 ETAS Day 3	2017	6	42	2017 02 11 05:20:00.000	163	ETAS and OpNav Test: Darks and Star Images
DOY 43 ETAS Day 4	2017	6	43	2017 02 12 06:06:00.000	163	ETAS and OpNav Test: Darks and Star Images
DOY 44 ETAS Day 5	2017	7	44	2017 02 13 07:20:00.000	163	ETAS and OpNav Test: Darks and Star Images
DOY 45 ETAS Day 6	2017	7	45	2017 02 14 06:13:00.000	163	ETAS and OpNav Test: Darks and Star Images
DOY 48 ETAS Day 7	2017	7	48	2017 02 17 04:44:00.000	162	ETAS and OpNav Test: Darks and Star Images
DOY 49 ETAS Day 8	2017	7	49	2017 02 18 04:24:00.000	145	ETAS: Darks and Star Images
DOY 50 ETAS Day 9	2017	7	50	2017 02 19 04:44:00.000	145	ETAS: Darks and Star Images
DOY 51 ETAS Day 10	2017	8	51	2017 02 20 06:02:00.000	145	ETAS: Darks and Star Images
Launch+6mo Checkout and Calibration Day 1: Checkout	2017	11	73	2017 03 14 22:17:00.000	82	Health Check: Darks, Lamps, Star Images
Launch+6mo Checkout and Calibration Day 2: Calibration	2017	11	75	2017 03 16 16:03:00.807	204	Calibration Lamp Positioning Test, Darks, Charge Transfer Efficiency Test: Darks, Lamps
Launch + 6 mo. Extended Calibration Day 1a, b, c	2017	14	93	2017 04 03 01:01:03.494	210	MapCam Responsivity and Distortion Calibrations, Cold: Darks and Star Images
Launch + 6 mo. Extended Calibration Day 2a, b, c, d, e	2017	14	94	2017 04 04 14:11:00.000	125	PolyCam and SamCam Distortion Calibrations, Cold: Darks and Star Images
Launch + 6 mo. Extended Calibration Day 3a, b	2017	14	95	2017 04 05 01:07:20.728	66	PolyCam and SamCam Responsivity, Cold: Darks and Star Images
Launch + 6 mo. Extended Calibration Day 4a, b	2017	14	96	2017 04 06 01:05:10.273	130	MapCam Responsivity and Distortion Calibrations, Hot: Darks and Star Images
Launch + 6 mo. Extended Calibration Day 5a, b, c, d	2017	14	97	2017 04 07 01:00:00.000	154	PolyCam and SamCam Responsivity and Distortion Calibrations, Hot: Darks and Star Images
Launch + 10 mo. Checkout and Calibration	2017	31	213	2017 08 01 00:00:00.000	452	Health Check, Dark, Cal Lamp, Random Telegraph Signal, and CTE cals: Darks, Lamps, Star Images
Earth Gravity + 1 day Observations	2017	38	266	2017 09 23 00:02:39.000	138	Responsivity Calibrations: Darks, Earth Images
Earth Gravity + 3 day Observations	2017	39	268	2017 09 25 00:02:39.000	218	Responsivity Calibrations: Darks, Moon Images
Earth Gravity + 6 day Observations	2017	39	271	2017 09 28 00:15:39.000	186	Responsivity Calibrations: Darks, Earth Images
Earth Gravity + 10 day Observations;	2017	40	275	2017 10 02 00:00:00.000	100	Responsivity and Stray Light (Plume Search) Calibrations: Darks, Earth and Moon, Star Images
Stray Light Part 1						
Stray Light Part 2	2018	3	17	2018 01 17 00:00:00.000	265	Stray Light Calibrations (Orbital B and TAG): Darks and Star Images
Launch + 18 mo. Checkout and Calibration	2018	11	71	2018 03 12 00:00:00.000	452	Health Check, Dark, Cal Lamp, Random Telegraph Signal, and CTE cals: Darks, Lamps, Star Images
Launch + 18 mo. Extended Calibration Day 1	2018	11	75	2018 03 16 00:00:00.000	582	MapCam Aliasing, MapCam/PolyCam Solar Analog (Cold)
Launch + 18 mo. Extended Calibration Day 2	2018	11	76	2018 03 17 00:00:00.000	300	SamCam and PolyCam Distortion, PolyCam Linearity (Cold)
Launch + 18 mo. Extended Calibration Day 3	2018	11	77	2018 03 18 00:00:00.000	368	MapCam Distortion, Stray Light Calibration at Plume Orientation (Cold)
Launch + 18 mo. Extended Calibration Day 4	2018	12	82	2018 03 23 00:00:00.000	582	MapCam Aliasing, MapCam/PolyCam/SamCam Solar Analog (Hot)
Launch + 18 mo. Extended Calibration Day 5	2018	12	83	2018 03 24 00:00:00.000	73	SamCam and PolyCam Distortion (Hot)
LUT Upload and Check	2018	28	192	2018 07 11 10:00:00.000	74	Look-Up Tables used for compression
Launch + 22 mo. Checkout and Calibration Day 1	2018	29	197	2018 07 16 07:00:00.000	75	Health Check, Dark, Cal Lamp and CTE cals: Darks, Lamps, Star Images

Launch + 22 mo. Checkout and Calibration Day 2	2018	29	198	2018 07 17 10:00:00.000	76	Random Telegraph Signal cal: Darks
MapCam Color Aliasing, ,Solar Analog Extended Cal	2018	29	200	2018 07 19 10:00:00.000	77	MapCam Color Aliasing Cal; PolyCam, MapCam & SamCam Solar Analog Cal
Extended Benu First Look, OpNav (PolyCam)	2018	33	229	2018 08 17 06:00:00.000	78	Approach Phase Begins with Benu Acquisition by Extended First Look PolyCam Images
OpNav (PolyCam)	2018	34	232	2018 08 20 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	34	234	2018 08 22 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	34	236	2018 08 24 09:15:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	35	239	2018 08 27 04:45:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	35	241	2018 08 29 10:15:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	35	243	2018 08 31 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	36	246	2018 09 03 07:15:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	36	248	2018 09 05 08:45:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	36	250	2018 09 07 07:10:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	37	253	2018 09 10 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
Benu Dust Plume Search, OpNav (PolyCam)	2018	37	254	2018 09 11 06:00:00.000	93	Dust Plume Search and Continued Optical Navigation Imaging of Benu with PolyCam
Benu Dust Plume Search (MapCam); OpNav (PolyCam)	2018	37	255	2018 09 12 06:00:00.000	103	Dust Plume Search with MapCam and Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	37	257	2018 09 14 08:00:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	38	260	2018 09 16 10:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	38	262	2018 09 19 06:00:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	38	264	2018 09 21 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	39	267	2018 09 24 07:30:00.000	10	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	39	269	2018 09 26 07:30:00.000	18	Continued Optical Navigation Imaging of Benu with PolyCam
Phase Function Part 1 (MapCam)	2018	39	270	2018 09 27 06:30:00.000	735	Observation of Benu Phase Function Part 1 with MapCam
OpNav (PolyCam)	2018	39	271	2018 09 28 07:30:00.000	18	Continued Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam)	2018	39	274	2018 10 01 07:15:00.000	18	Daily Optical Navigation Imaging of Benu with PolyCam
OpNav (PolyCam); DPF (MapCam)	2018	40	275	2018 10 02 07:30:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	276	2018 10 03 07:30:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	277	2018 10 04 08:20:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	278	2018 10 05 07:20:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	279	2018 10 06 07:30:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	280	2018 10 07 07:30:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	40	281	2018 10 08 07:30:00.000	37	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	41	282	2018 10 09 09:30:00.000	41	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	41	283	2018 10 10 09:30:00.000	41	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); Light Curve (MapCam)	2018	41	284	2018 10 11 03-11:00	753	Daily Optical Navigation Imaging of Benu with PolyCam; Light Curve with MapCam
OpNav (PolyCam); Light Curve (MapCam)	2018	41	285	2018 10 12 03-11:00	723	Daily Optical Navigation Imaging of Benu with PolyCam; Light Curve with MapCam
OpNav (PolyCam); DPF (MapCam)	2018	41	286	2018 10 13 09:00:00.000	64	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	41	287	2018 10 14 09:00:00.000	64	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	41	288	2018 10 15 09:00:00.000	102	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	289	2018 10 16 03-11:00	773	Daily Optical Navigation Imaging of Benu with MapCam; MapCam Full Phase Function Part 2
OpNav (PolyCam); DPF (MapCam)	2018	42	290	2018 10 17 11:00:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	291	2018 10 18 11:00:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	292	2018 10 19 09:00:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	293	2018 10 20 09:00:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	294	2018 10 21 09:30:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	42	295	2018 10 22 09:15:00.000	87	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav, NSS (PolyCam); DPF (MapCam)	2018	43	296	2018 10 23 04-10:30	660	Daily OpNav Imaging of Benu with PolyCam; PolyCam Natural Satellite Search; MapCam DPF
OpNav, NSS (PolyCam); DPF (MapCam)	2018	43	297	2018 10 24 04-10:30	660	Daily OpNav Imaging of Benu with PolyCam; PolyCam Natural Satellite Search; MapCam DPF

OpNav, NSS (PolyCam); DPF (MapCam)	2018	43	298	2018 10 25 04-10:30	660	Daily OpNav Imaging of Bennu with PolyCam; PolyCam Natural Satellite Search; MapCam DPF
OpNav, NSS (PolyCam); NSS, DPF (MapCam)	2018	43	299	2018 10 26 04-10:30	660	PolyCam Daily OpNav; MapCam Daily Phase Function; PolyCam & MapCam Natural Satellite Search
OpNav & NSS (PolyCam); DPF (MapCam)	2018	43	300	2018 10 27 04-10:30	678	PolyCam Daily OpNav & Natural Satellite Search; MapCam Daily Phase Function
OpNav & NSS (PolyCam); DPF (MapCam)	2018	43	301	2018 10 28 04-10:30	678	PolyCam Daily OpNav & Natural Satellite Search; MapCam Daily Phase Function
OpNav (PolyCam); DPF (MapCam)	2018	43	302	2018 10 29 10:30	90	PolyCam Daily OpNav; MapCam Daily Phase Function
OpNav & NSS (PolyCam); Phase Function & NSS (MapCam)	2018	44	303	2018 10 30 04-10:30	506	PolyCam Daily OpNav; MapCam Daily Phase Function; PolyCam & MapCam Natural Satellite Search
OpNav & NSS (PolyCam); Phase Function & NSS (MapCam)	2018	44	304	2018 10 31 04-10:30	506	PolyCam Daily OpNav; MapCam Daily Phase Function; PolyCam & MapCam Natural Satellite Search
OpNav, SRA (PolyCam); DPF (MapCam)	2018	44	305	2018 11 01 10:05	87	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav, SRA (PolyCam); DPF (MapCam)	2018	44	306	2018 11 02 04-10:30	204	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav, SRA (PolyCam); DPF (MapCam)	2018	44	307	2018 11 03 04-10:30	204	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav, SRA (PolyCam); DPF (MapCam)	2018	44	308	2018 11 04 10:10	87	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav, SRA (PolyCam); DPF (MapCam)	2018	44	309	2018 11 05 04-10:30	134	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	45	310	2018 11 06 10:10	68	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	45	311	2018 11 07 10:10	68	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav (PolyCam); DPF (MapCam)	2018	45	312	2018 11 08 04-10:30	115	PolyCam Daily OpNav; MapCam Daily Phase Function (DPF)
OpNav, SRA (PolyCam); DPF (MapCam)	2018	45	313	2018 11 09 04-10:30	115	PolyCam Daily OpNav and Spectrometer Ride-Along (SRA); MapCam Daily Phase Function (DPF)
OpNav, NSS (PolyCam); NSS (MapCam)	2018	45	314	2018 11 10 04-10:30	419	PolyCam Daily OpNav and PolyCam and MapCam Natural Satellite Search (NSS)
OpNav, NSS (PolyCam); NSS (MapCam)	2018	45	315	2018 11 11 04-10:30	419	PolyCam Daily OpNav and PolyCam and MapCam Natural Satellite Search (NSS)
OpNav, ESM (PolyCam)	2018	45	316	2018 11 12 04-10:30	206	PolyCam Daily OpNav and Early Shape Model Imaging (ESM)
OpNav (MapCam), ESM (PolyCam)	2018	46	317	2018 11 13 04-10:30	224	PolyCam Early Shape Model Imaging (ESM) and MapCam OpNav
OpNav (MapCam), TAGSAM Arm (SamCam)	2018	46	318	2018 11 14 10-16:30	225	SamCam TAGSAM Arm Imaging and MapCam OpNav
OpNav (MapCam)	2018	46	319	2018 11 15 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	46	320	2018 11 16 04-10:30	224	MapCam OpNav and PolyCam Shape Model Imaging (SM)
OpNav (MapCam)	2018	46	321	2018 11 17 10:10	36	MapCam OpNav
OpNav (MapCam)	2018	46	322	2018 11 18 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	46	323	2018 11 19 04-10:30	224	MapCam OpNav and PolyCam Shape Model Imaging (SM)
OpNav (MapCam)	2018	47	324	2018 11 20 10:10	36	MapCam OpNav
OpNav (MapCam)	2018	47	325	2018 11 21 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	47	326	2018 11 22 04-10:30	224	MapCam OpNav and PolyCam Shape Model Imaging (SM)
OpNav (MapCam)	2018	47	327	2018 11 23 10:10	36	MapCam OpNav
OpNav (MapCam)	2018	47	328	2018 11 24 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	47	329	2018 11 25 04-10:30	224	MapCam OpNav and PolyCam Shape Model Imaging (SM)
OpNav (MapCam)	2018	47	330	2018 11 26 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	48	331	2018 11 27 04-10:30	344	MapCam OpNav and PolyCam Late Shape Model Imaging (LSM)
OpNav (MapCam) and SM (PolyCam)	2018	48	332	2018 11 28 04-10:30	450	MapCam OpNav and PolyCam Late Shape Model Imaging (LSM)
OpNav (MapCam)	2018	48	333	2018 11 29 10:10	36	MapCam OpNav
OpNav (MapCam)	2018	48	334	2018 11 30 10:10	36	MapCam OpNav
OpNav (MapCam) and SM (PolyCam)	2018	48	335	2018 12 01 04-10:30	649	MapCam OpNav and PolyCam Late Shape Model Imaging (LSM)
OpNav (MapCam) and SM (PolyCam)	2018	48	336	2018 12 02 04-10:30	537	MapCam OpNav and PolyCam Late Shape Model Imaging (LSM)
OpNav (MapCam)	2018	48	337	2018 12 03 10:10	36	MapCam OpNav
NP1 (MapCam)	2018	49	338	2018 12 04 04-24:00	702	MapCam North Pole Pass 1 (NP1): Distant Inbound and Close Outbound Shape Model Imaging (LUT 4)
NP1 (MapCam)	2018	49	339	2018 12 05 00-05:30	401	MapCam North Pole Pass 1 (NP1): Distant Outbound Shape Model Imaging (LUT 4)
NP3 (MapCam)	2018	49	342	2018 12 08 02-24	521	MapCam North Pole Pass 2 (NP2): Distant Inbound and Close Outbound Shape Model Imaging
NP3 (MapCam)	2018	49	343	2018 12 09 00-08	283	MapCam North Pole Pass 2 (NP2): Distant Outbound Shape Model Imaging
NP->EP (MapCam)	2018	50	345	2018 12 11 00-11	72	MapCam Transition to Equatorial: Distant Transitional Imaging (Shape Model and Phase Function)
EP (MapCam)	2018	50	346	2018 12 12 00-09:00	207	MapCam Equatorial Pass (EP): Distant Inbound (Shape Model and Phase Function)
EP (MapCam)	2018	50	347	2018 12 13 00-22:30	243	MapCam Equatorial Pass (EP) and Transition to South Pole: Distant Outbound (Sh Model and Ph Func)
EP->SP (MapCam)	2018	50	348	2018 12 14 00-23:00	72	MapCam Transition to South Pole: Distant Transitional (Shape Model and Phase Function)

EP-->SP (MapCam)	2018	50	349	2018 12 15 00-11:00	72	MapCam Transition to South Pole: Distant Transitional (Shape Model and Phase Function)
SP (MapCam)	2018	50	350	2018 12 16 00-24:00	440	MapCam South Pole Pass (SP): Distant Inbound and Close Outbound
SP (MapCam)	2018	51	351	2018 12 17 00-09:00	178	MapCam South Pole Pass (SP): Distant Outbound
MIPC (MapCam)	2019	8	49	2019 02 18 19-24:00	34	MapCam Imaging for Particle Contingency
MIPC (MapCam)	2019	8	50	2019 02 19 00-24:00	110	MapCam Imaging for Particle Contingency
MIPC (MapCam)	2019	8	51	2019 02 20 00-24:00	110	MapCam Imaging for Particle Contingency
MIPC (MapCam)	2019	8	52	2019 02 21 00-24:00	110	MapCam Imaging for Particle Contingency
BBDO1, 2 (PolyCam, MapCam)	2019	8	53	2019 02 22 00-24:00	180	MapCam Imaging for Particle Contingency; Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	8	54	2019 02 23 00-24:00	360	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	8	55	2019 02 24 00-24:00	360	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	9	56	2019 02 25 00-24:00	360	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	9	57	2019 02 26 00-24:00	360	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	9	58	2019 02 27 00-24:00	360	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
BBDO1, 2 (PolyCam, MapCam)	2019	9	59	2019 02 28 00-13:00	256	Baseball Diamond Orbital Imaging 1,2: PolyCam & MapCam High Phase Angle
ON (MapCam)	2019	9	62	2019 03 03 13-24:00	2	OpNav: MapCam
ON (MapCam)	2019	10	63	2019 03 04 00-24:00	9	OpNav: MapCam
ON (MapCam)	2019	10	64	2019 03 05 00-24:00	9	OpNav: MapCam
ON (MapCam)	2019	10	65	2019 03 06 00-24:00	7	OpNav: MapCam
BBDFB1 (PolyCam); ON (MapCam)	2019	10	66	2019 03 07 00-24:00	1018	Baseball Diamond Flyby 1: PolyCam Low Phase Angle; OpNav: MapCam
ON (MapCam)	2019	10	67	2019 03 08 00-24:00	9	OpNav: MapCam
ON (MapCam)	2019	10	68	2019 03 09 00-24:00	8	OpNav: MapCam
ON (MapCam)	2019	10	69	2019 03 10 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	11	70	2019 03 11 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	11	71	2019 03 12 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	11	72	2019 03 13 00-23:00	9	OpNav: MapCam
BBDFB2 (MapCam); ON (MapCam)	2019	11	73	2019 03 14 00-23:00	553	Baseball Diamond Flyby 2: MapCam Low Phase Angle; OpNav: MapCam
ON (MapCam)	2019	11	74	2019 03 15 00-24:00	10	OpNav: MapCam
ON (MapCam)	2019	11	75	2019 03 16 00-24:00	6	OpNav: MapCam
ON (MapCam)	2019	11	76	2019 03 17 00-23:00	5	OpNav: MapCam
ON (MapCam)	2019	12	77	2019 03 18 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	12	78	2019 03 19 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	12	79	2019 03 20 00-23:00	9	OpNav: MapCam
BBDFB3 (PolyCam); ON (MapCam)	2019	12	80	2019 03 21 00-23:00	1394	Baseball Diamond Flyby 3: PolyCam Medium Phase Angle; OpNav: MapCam
ON (MapCam)	2019	12	81	2019 03 22 00-24:00	10	OpNav: MapCam
ON (MapCam)	2019	12	82	2019 03 23 00-24:00	6	OpNav: MapCam
ON (MapCam)	2019	12	83	2019 03 24 00-23:00	5	OpNav: MapCam
ON (MapCam)	2019	13	84	2019 03 25 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	13	85	2019 03 26 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	13	86	2019 03 27 00-23:00	9	OpNav: MapCam
BBDFB4a (PolyCam); ON (MapCam)	2019	13	87	2019 03 28 00-23:00	1005	Baseball Diamond Flyby 4a: PolyCam Medium High Phase Angle; OpNav: MapCam
BBDFB4b (PolyCam); ON (MapCam)	2019	13	88	2019 03 29 00-23:00	1066	Baseball Diamond Flyby 4b: PolyCam Medium High Phase Angle; OpNav: MapCam
ON (MapCam)	2019	13	89	2019 03 30 00-23:00	8	OpNav: MapCam
ON (MapCam); PTF	2019	13	90	2019 03 31 00-23:00	23	OpNav: MapCam; PolyCam Through-Focus (PTF)
ON (MapCam)	2019	14	91	2019 04 01 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	14	92	2019 04 02 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	14	93	2019 04 03 00-23:00	9	OpNav: MapCam
BBDFB5a (PolyCam); ON (MapCam)	2019	14	94	2019 04 04 00-23:00	856	Baseball Diamond Flyby 5a: PolyCam Medium Low Phase Angle N & S; OpNav: MapCam
BBDFB5b (PolyCam); ON (MapCam)	2019	14	95	2019 04 05 00-23:00	1116	Baseball Diamond Flyby 5b: PolyCam Medium Low Phase Angle N & S; OpNav: MapCam
ON (MapCam)	2019	14	96	2019 04 06 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	14	97	2019 04 07 00-23:00	????	OpNav: MapCam
ON (MapCam)	2019	15	98	2019 04 08 00-23:00	????	OpNav: MapCam
ON (MapCam)	2019	15	99	2019 04 09 00-23:00	????	OpNav: MapCam
ON (MapCam)	2019	15	100	2019 04 10 00-23:00	????	OpNav: MapCam
BBDFB6a (PolyCam); ON (MapCam)	2019	15	101	2019 04 11 00-23:00	????	Baseball Diamond Flyby 6a: PolyCam Medium Phase Angle N & S; OpNav: MapCam

BBDFB6b (PolyCam); ON (MapCam)	2019	15	102	2019 04 12 00-23:00	????	Baseball Diamond Flyby 6b: PolyCam Medium Phase Angle N & S; OpNav: MapCam
ON (MapCam)	2019	15	103	2019 04 13 00-23:00	????	OpNav: MapCam
ON (MapCam)	2019	15	104	2019 04 14 00-23:00	????	OpNav: MapCam
ON (MapCam)	2019	14	97	2019 04 07 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	15	98	2019 04 08 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	15	99	2019 04 09 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	15	100	2019 04 10 00-23:00	9	OpNav: MapCam
BBDFB6a (PolyCam); ON (MapCam)	2019	15	101	2019 04 11 00-23:00	856	Baseball Diamond Flyby 6a: PolyCam Medium Low Phase Angle N & S; OpNav: MapCam
BBDFB6b (PolyCam); ON (MapCam)	2019	15	102	2019 04 12 00-23:00	1173	Baseball Diamond Flyby 6b: PolyCam Medium Low Phase Angle N & S; OpNav: MapCam
ON (MapCam)	2019	15	103	2019 04 13 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	15	104	2019 04 14 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	16	105	2019 04 15 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	16	106	2019 04 16 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	16	107	2019 04 17 00-23:00	9	OpNav: MapCam
BBDFB7a (MapCam); ON (MapCam)	2019	16	108	2019 04 18 00-23:00	433	Baseball Diamond Flyby 7a: MapCam Medium Low Phase Angle N & S; OpNav: MapCam
BBDFB7b (MapCam); ON (MapCam)	2019	16	109	2019 04 19 00-23:00	433	Baseball Diamond Flyby 7b: MapCam Medium Low Phase Angle N & S; OpNav: MapCam
ON (MapCam)	2019	16	110	2019 04 20 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	16	111	2019 04 21 00-23:00	5	OpNav: MapCam
ON (MapCam)	2019	17	112	2019 04 22 00-23:00	7	OpNav: MapCam
ON (MapCam)	2019	17	113	2019 04 23 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	17	114	2019 04 24 00-23:00	9	OpNav: MapCam
EQS 3pm	2019	17	115	2019 04 25 00-23:00	759	Equatorial Survey 3 pm: MapCam 45-deg station; OpNav: MapCam
ON (MapCam)	2019	17	116	2019 04 26 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	17	117	2019 04 27 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	17	118	2019 04 28 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	18	119	2019 04 29 00-23:00	8	OpNav: MapCam
ON (MapCam)	2019	18	120	2019 04 30 00-23:00	9	OpNav: MapCam
ON (MapCam)	2019	18	121	2019 05 01 00-23:00	9	OpNav: MapCam
EQS 3:20 am A: Ride-along	2019	18	122	2019 05 02 00-23:00	536	Equatorial Survey 3:20 am: MapCam 135-deg station ride-along; OpNav: MapCam A
EQS 3:20 am B: Dust Plume Search	2019	18	123	2019 05 03 00-23:00	697	Equatorial Survey 3:20 am: MapCam 135-deg station Dust Plume Search; OpNav: MapCam B
ON (MapCam)	2019	18	124	2019 05 04 00-23:00	8	OpNav: MapCam