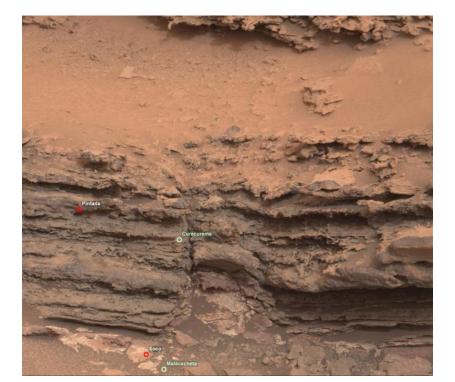
The Analyst's Notebook: Providing Context for Landed Operations and Adding Value to Mission Archives

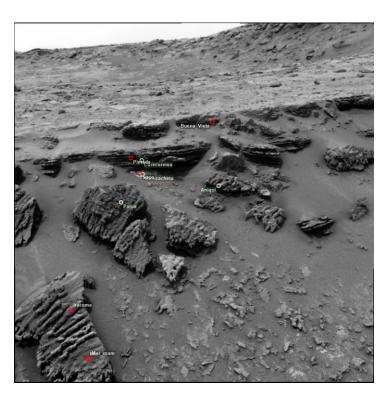
Tom Stein tstein@wustl.edu Feng Zhou <u>feng.zhou@wustl.edu</u>

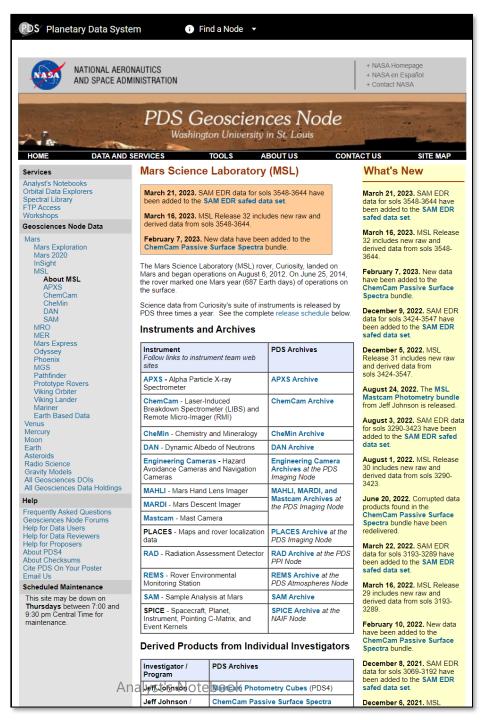
PDS Geosciences Node Washington University in St. Louis

PV2023: Adding value (to) and preserving Scientific & Technical data 2023-0502

Planetary data archives of surface missions contain data from numerous hosted instruments. Because of the nondeterministic nature of surface missions, it is not possible to assess the data without understanding the context in which they were collected.







Data discovery



PDS Imaging Node: Data	a Archive		
Name		Last modified	Size Description
Parent Directory			-
NRB_720733468ILTLF0980144NCAM00200	M1.IMG	2023-02-15 07:34	2.0M
NRB_720733468ILTLF0980144NCAM00200	M1.LBL	2023-02-15 07:34	26K
NRB_720733468ILTLT0980144NCAM00200	M1.IMG	2023-02-15 07:34	48K
NRB_720733468ILTLT0980144NCAM00200	M1.LBL	2023-02-15 07:34	24K
NRB_720733468ILT_F0980144NCAM00200	M1.IMG	2023-02-15 07:34	2.0M
NRB_720733468ILT_F0980144NCAM00200	M1.LBL	2023-02-15 07:34	26K
NRB_720733468ILT_T0980144NCAM00200	M1.IMG	2023-02-15 07:34	48K
NRB_720733468ILT_T0980144NCAM00200	M1.LBL	2023-02-15 07:34	24K
NRB_720733468RADLF0980144NCAM0020	0M1.IMG	2023-02-15 07:34	2.0M
NRB_720733468RADLF0980144NCAM0020	0M1.LBL	2023-02-15 07:34	26К
NRB_720733468RADLT0980144NCAM0020	0M1.IMG	2023-02-15 07:34	49K
NRB_720733468RADLT0980144NCAM0020	OM1.LBL	2023-02-15 07:34	25K
NRB_720733468RAD_F0980144NCAM0020	0M1.IMG	2023-02-15 07:34	2.0M
RB_720733468RAD_F0980144NCAM0020	0M1.LBL	2023-02-15 07:34	26K
NRB_720733468RAD_T0980144NCAM0020	0M1.IMG	2023-02-15 07:34	49K
RB_720733468RAD_T0980144NCAM0020	0M1.LBL	2023-02-15 07:34	25K
NRB_720733468RASLF0980144NCAM0020	DM1.IMG	2023-02-15 07:34	2.0M
NRB_720733468RASLF0980144NCAM0020	DM1.LBL	2023-02-15 07:34	26K
NRB_720733468RASLT0980144NCAM0020	DM1.IMG	2023-02-15 07:34	49K
NRB_720733468RASLT0980144NCAM0020	DM1.LBL	2023-02-15 07:34	25K

pds-geosciences.wustl.edu - /msl/msl-m-chemcamv1/mslccm 1xxx/data/sol03641/

[To Parent Directory]

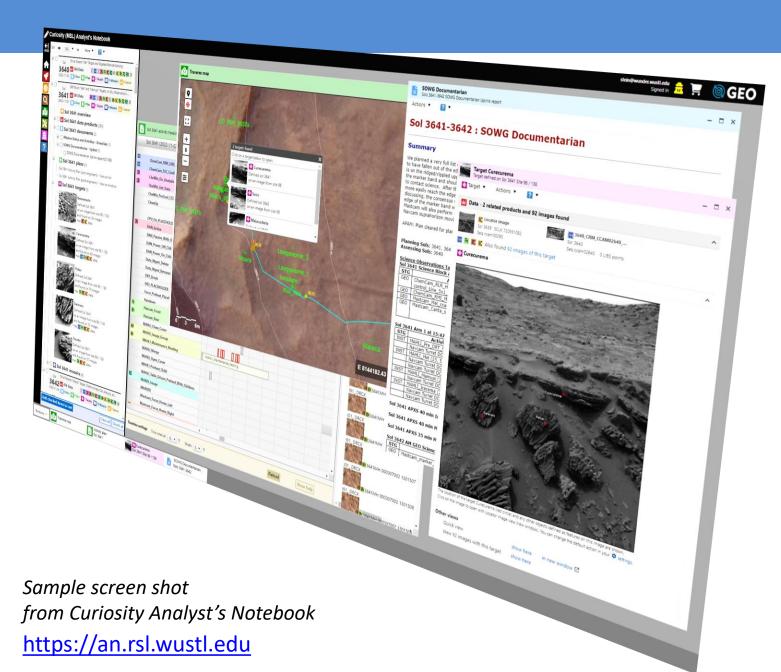
2/16/2023 11:37 AM 3005601 c15_720715524ccc_70208144ccam01641a.lbl 2/16/2023 11:37 AM 2241731 c15_720715524ccc_70208144ccam01641a.lbl 2/16/2023 11:37 AM 2241731 c15_720715524ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2302 c15_720715524ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 230516 c15_720715724ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2241752 c15_720517542ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2241752 c15_7205175715ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2241762 c15_7205175715ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2241762 c15_7205175515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224176 c15_7205175515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224173 c15_7207155515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224173 c15_7207155515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224173 c15_7207155515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224173 c15_7207155515ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 224173 c15_720715523ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 22416 c15_720715523ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 2442 c15_720715523ccf_70280144ccam01641a.lbl 2/16/2023 11:37 AM 24422 c10_720715523ccf_70280144ccam01641a.lbl					
2/16/2023 11:37 AM 2241731 c15_20215524cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2302 c15_20215524cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2302 c15_20215524cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2241752 c15_20215724cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2241752 c15_20215724cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234125 c15_20215724cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234125 c15_20215724cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234125 c15_20215724cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234181 c15_202157274cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234181 c15_20215851cfm_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234181 c15_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 23415 c15_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 23416 c11_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 23416 c11_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 244167 c11_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 244167 c11_20215851cfm_0208144ccam01641a.lbl 2/16/203 11:37 AM 244167 c11_202715515555555009146514ccam01641a.lbl 2/16/203 11:37 AM 24812 c1_202715575555550091465144ccam01641a.lbl 2/16/203 11:37 AM 24812 c1_20271557555555009146414ccam01641a.lbl 2/16/2023 11:37 AM 24812 c1_202715575555555009146414ccam01641a.lbl 2/16/2023 11:37 AM 24812 c1_202715575555555009146414ccam01641a.lbl 2/16/2023 11:37 AM 24812 c1_2027155755555555009146414ccam01641a.lbl 2/16/2023 11:37 AM 24812 c1_2027155755555555555555555555555555555555				3005691	cl5_720715624ccs_f0980144ccam01641p3.csv
2/16/2023 11:37 AM 28302 21.5 22715524cfm2 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28056 25.7 22715524cfm2 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28150 25.7 22715744cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28142 25.7 22715744cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28442 15.7 22715744cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28442 15.7 227157746cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 284415 15.7 2271575746cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28435 15.7 2271575746cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28377 L5.7 227155746cfm 79801445cam016410.3.Ltx 2/16/2023 11:37 AM 28377 L5.7 227155746cfm 79801445cam016410.3.Ltx 2/16/20	2/10/2023	11:37	AM	28110	cl5_720715624ccs_f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 3005416 c15_20215204ccs_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241762 c15_20215204ccs_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241762 c15_20215204ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 204812 c15_202152784ccs_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241815 c15_202152784ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241815 c15_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 224173 c15_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241457 c15_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241457 c15_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 2241457 c15_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 22612 c12_20215851ccf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 26452 c12_20215551csf_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 28452 c12_202155505555050505080144ccam01641a3.lb) 2/16/2023 11:37 AM 28452 c12_20215550555050505080144ccam01641a3.lb) 2/16/2023 11:37 AM 28452 c12_20215550555550505050804	2/10/2023	11:37	AM	2241731	cl5_720715624rdr_f0980144ccam01641p3.csv
2/16/2023 11:37 AM 20150 <u>c15</u> 202715204crs_10980144ccam01641a.txt 2/16/2023 11:37 AM 201452 <u>c15</u> 202715204crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20481 <u>c15</u> 202715204crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20481 <u>c15</u> 202715204crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20481 <u>c15</u> 2021152784crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20430 <u>c15</u> 2021152784crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20430 <u>c15</u> 2021152784crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20430 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20430 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20433 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20433 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20438 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20446 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20446 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 2/16/2023 11:37 AM 20446 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 1/16/2023 11:37 AM 20446 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 1/16/2023 11:37 AM 20446 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 1/16/203 11:37 AM 20481 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 1/16/203 11:37 AM 20482 <u>c15</u> 202115251crd <u>10980144ccam01641a.txt</u> 1/16/203 11:37 AM 20452 <u>c15</u> 202115521crd <u>10980144ccam01641a.txt</u> 1/16/203 11:37 AM 20452 <u>c17</u> 202115521crd <u>10980144ccam01641a.txt</u> 1/16/203 11:37 AM 20452 c12 202115581sxt <u>1098014</u>	2/10/2023	11:37	AM	28302	cl5_720715624rdr_f0980144ccam01641p3.lb1
j/i0/2023 11:37 AU 2241752 15.7 220715704-cfr_09801445c.am016413.1bl j/i0/2023 11:37 AU 2342 15.7 220715704-cfr_079801445c.am016413.1bl j/i0/2023 11:37 AU 3904881 15.7 220715704-cfr_079801445c.am016413.1bl j/i0/2023 11:37 AU 2241815 15.7 220715778csc 19981445c 1461.3bl j/i0/2023 11:37 AU 2241815 15.7 220715778csc 19981445c 1461.3bl 1bl j/i0/2023 11:37 AU 2241815 15.7 220715578csc 169801445c 161.3bl 1bl j/i0/2023 11:37 AU 23031 15.7 220715583cfr 169801445c 161.3bl 1bl 1bl 1bl 1bl 1bl 1bl 11:37 AU 2241753 15.7 220715583cfr 169801445c 1bl	2/10/2023	11:37	AM	3005416	cl5 720715704ccs f0980144ccam01641p3.csv
2/16/2023 11:37 AM 28342 c12_72715746-01_709801445cam01641a.ltb 2/16/2023 11:37 AM 28481 c15_726715778cs_f09801445cam01641a.ltb 2/16/2023 11:37 AM 28481 c15_726715778cs_f09801445cam01641a.ltb 2/16/2023 11:37 AM 28415 c15_7267157876cf_09801445cam01641a.ltb 2/16/2023 11:37 AM 284315 c15_726715851cs_f09801445cam01641a.ltb 2/16/2023 11:37 AM 28432 c15_726715851cs_f09801445cam01641a.ltb 2/16/2023 11:37 AM 28452 c15_726715825cs_f09801445cam01641a.ltb 2/16/2023 11:37 AM 16795 c15_726715825cs_f09801445cam01641a.ltb 1/16/2023 11:37 AM 16795 c15_726715825cs_f09801445cam01641a.ltb 1/16/2023 11:37 AM 16795 c15_726715825cs_f09801445cam01641a.ltb 1/16/203 11:37 AM 16795 c15_726715855cs_f09801445cam01641a.ltb 1/16/203 11:37 AM 16795 c15_726715855cs_f09801445cam01641a.ltb 1/16/203 11:37 AM 16795 c15_726715855cs_f09801445cam01641a.ltb 1/16/203 11:37 AM 16795 c15_726715855cs_f09801445cam01641a.ltb 1/16/2023	2/10/2023	11:37	AM	28150	cl5 720715704ccs f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 3004881 12, 220715726cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 2241815 15, 220715726cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 2241815 15, 220715726cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 2241815 15, 220715851cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 224173 15, 220715851cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 204173 15, 220715851cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 2241457 15, 220715821cs 1098144ccam016413.lb) 2/16/2023 11:37 AM 2241457 15, 220715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 2241457 15, 220715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 2241457 15, 220715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 2441457 15, 220715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 2441457 15, 220715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 244127 12, 720715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 246127 12, 720715821cs 1098144ccam016413.lb) 2/16/203 11:37 AM 264127 12, 720715821cs 1098144ccam016413.lb) 2/16/20	2/10/2023	11:37	AM	2241762	cl5 720715704rdr f0980144ccam01641p3.csv
2/16/2023 11:37 AM 22114 [15, 720715778cf, 7098144ccam01641a, 1b) 2/16/2023 11:37 AM 22115 [15, 720715778cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 28135 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 28135 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 28145 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 2815 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 2816 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 2816 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 2816 [15, 720715578cf, 7098144ccam01641a, 1cv 2/16/2023 11:37 AM 28481 [15, 720715578cf, 7098144ccam01641a, 1b] 2/16/2023 11:37 AM 28481 [15, 720715878cf, 70981444ccam01641a, 1b] 2/16/20	2/10/2023	11:37	AM	28342	cl5_720715704rdr_f0980144ccam01641p3.lb1
2/16/2023 11:37 AM 2241815 c15_20215278cdr_0208144ccam01641a.lbl 2/16/2023 11:37 AM 23033 c15_20215878cdr_0208144ccam01641a.lbl 2/16/2023 11:37 AM 230455 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2241733 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2241733 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2307 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2307 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2307 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2307 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 2308557 c15_20215853cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234166 c15_20215826cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234162 c15_20215826cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 234162 c15_20215851cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 244167 c15_20215851cc_0208144ccam01641a.lbl 2/16/2023 11:37 AM 10:77 c15_2021551cs1cs_0208144ccam01641a.lbl 2/16/2023 11:37 AM 10:77 c15_2021551cs1cs_0208144ccam01641a.lbl 2/16/2023 11:37 AM 10:77 c15_2021551cs1cs_0208144ccam01641a.lbl 2/16/2023 11:37 AM 24812 c15_20215525555550008144ccam01641a.lbl 2/16/2023 11:37 AM 24812 c15_2021552555550008144ccam01641a.lbl 2/16/2023 11:37 AM 24812 c15_2021552555500098144ccam01641a.lbl 2/16/2023 11:37 AM 264512 c15_202755455555500098144ccam01641a.lbl 2/16/2023 11:37 AM 264512 c15_202755455555500098144ccam01641a.lbl 2/16/2023 11:	2/10/2023	11:37	AM	3004881	cl5 720715778ccs f0980144ccam01641p3.csv
2/16/2023 11:37 28333 15, 22071572/mdr_f0980144cc.m016418.1b. 2/16/2023 11:37 AM 280557 15, 2207155726mf_f0980144cc.m016418.1b. 2/16/2023 11:37 AM 28165 15, 2207158736mf_f0980144cc.m016418.1b. 2/16/2023 11:37 AM 28165 15, 2207158536mf_f09801446cc.m016418.3b. 2/16/2023 11:37 AM 28135 15, 2207158536mf_f09801446cc.m016418.3b. 2/16/2023 11:37 AM 280557 15, 2207158256cs, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 28136 15, 2207158276cs, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 28136 15, 2207158276cs, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 28435 15, 2207158276ss, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 284812 12, 720715876ss, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 284812 12, 720715876ss, f09801446cc.m016418.3b. 2/16/2023 11:37 AM 284812 12, 720715876ss, f09801446cc.m016418.3b. <	2/10/2023	11:37	AM	28141	cl5 720715778ccs f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 3005057 c15_720715831cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241733 c15_720715831cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241733 c15_720715831cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 3005057 c15_720715831cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 3005057 c15_720715926cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241467 c15_720715926cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241467 c15_720715926cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241467 c15_720715926cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 2241467 c15_720715926cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 10:77 c12_720715921cs_f0298144ccam01641a3.lb) 2/16/2023 11:37 AM 10:77 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 10:77 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 10:77 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 10:775 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 10:775 c12_720715571cs_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c12_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c12_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c12_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 10:755 c13_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 126432 c13_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 126432 c13_720715501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 12637 cc_9720715401ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 12637 cc_9720715401ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 12637 cc_97207154501ss_f02980144ccam01641a3.lb) 2/16/2023 11:37 AM 12637 cc_97207154501ss_f	2/10/2023	11:37	AM	2241815	cl5 720715778rdr f0980144ccam01641p3.csv
2/16/2023 11:37 AM 22145 c15, 720715833cr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 221473 c15, 720715833cr, 67098144ccam01641a3.csv 2/16/2023 11:37 AM 20357 c15, 720715835cr, 67098144ccam01641a3.csv 2/16/2023 11:37 AM 2016 c15, 720715825cr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 22146 c15, 7207158276cr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 284812 c19, 72071557156xr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 284812 c19, 72071557158xr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 284812 c19, 72071587158xr, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 1264812 c19, 72071587158r, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 1264812 c19, 72071587158r, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 1264812 c19, 7207154508r, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 1264812 c19, 7207154508r, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 1264812 c19, 7207154508r, 67098144ccam01641a3.tb) 2/16/2023 11:37 AM 12637 cng, 72071545	2/10/2023	11:37	AM	28333	cl5 720715778rdr f0980144ccam01641p3.lb1
2/16/2023 11:37 AU 2241733 15.7 220715853cmf_07980144ccam01641a3.lbl 2/16/2023 11:37 AU 23073 CL5.720715853cmf_07980144ccam01641a3.lbl 2/16/2023 11:37 AU 23073 CL5.720715823cmf_07898144ccam01641a3.lbl 2/16/2023 11:37 AU 23074 CL5.720715823cmf_07898144ccam01641a3.lbl 2/16/2023 11:37 AU 2241467 CL5.720715827acmf_07898144ccam01641a3.lbl 2/16/2023 11:37 AU 23384 CL5.720715827acmf_07898144ccam01641a3.lbl 2/16/2023 11:37 AU 23384 CL5.720715871acmf_07898144ccam01641a3.lbl 2/16/2023 11:37 AU 16795 CL5.720715871asmf_0789144ccam01641a3.lbl 2/16/2023 11:37 AU 16795 CL5.720715871asmf_0780144ccam01641a3.lbl 2/16/2023 11:37 AU 16795 CL5.720715871asmf_0780144ccam01641a3.lbl 2/16/2023 11:37 AU 16795 CL5.720715801asm_07808144ccam01641a3.lbl 2/16/2023 11:37 AU 16795 CL5.7207158001asm_07808144ccam01641	2/10/2023	11:37	AM	3005057	cl5 720715853ccs f0980144ccam01641p3.csv
2/16/2023 11:37 28337 15,720715853.cfm2,fm2,fm2,fm2,fm2,fm2,fm2,fm2,fm2,fm2,	2/10/2023	11:37	AM	28145	cl5 720715853ccs f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 3005857 c15_72071523Ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 2241467 c15_72071523Ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 2241467 c15_72071523Ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 23881 c15_720715521ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 16797 c15_720715521ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 16797 c15_720715521ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 16795 c15_720715521ecs_16928144ccam01641a.lb) 2/16/2023 11:37 AM 16795 c15_720715521ess_16928144ccam01641a.lb) 2/16/2023 11:37 AM 16795 c15_720715521ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 16795 c15_720715521ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 16795 c15_720715821ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 16793 c15_720715821ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 16792 c15_720715821ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 12693 c15_720715451ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 12693 c1_720715451ess_16920444ccam01641a.lb) 2/16/2023 11:37 AM 12693 c1_720715451ess_16920444ccam016411.lb) 2/16/2023 11:37 AM 12693 c1_72071545180165500000000000000000000000000000000	2/10/2023	11:37	AM	2241733	cl5 720715853rdr f0980144ccam01641p3.csv
2/16/2023 11:37 AM 22146 c15, 720715292cc, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 2241467 c15, 720715292cd, 7098144ccam01641a3, tcv 2/16/2023 11:37 AM 28338 c15, 720715292cd, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 720715571csv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 720715871csv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 720715871csv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 720715890sv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 72071540srv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 72071540srv, 7098144ccam01641a3, tbi 2/16/2023 11:37 AM 284812 c19, 720715450srv, 7098144ccam01641a3, tbi	2/10/2023	11:37	AM	28337	cl5_720715853rdr_f0980144ccam01641p3.lb1
2/16/2023 11:37 AM 2241467 <u>c15_202715226cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 2383 <u>c15_202715527cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16797 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16795 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16795 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16795 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16795 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16783 <u>c15_202715571cm_f0928144ccam01641a.lb</u> 2/16/2023 11:37 AM 16783 <u>c15_202715571cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 16783 <u>c15_202715571cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 16783 <u>c15_202715571cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 16792 <u>c15_202715571cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 16372 <u>c15_202715671cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 12637 <u>cc1_202715671cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam01641a.lb</u> 2/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam01641a.lb</u> 1/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam01641a.lb</u> 1/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam01641a.lb</u> 1/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam01641a.lb</u> 1/16/2023 11:37 AM 12637 <u>cc1_202715451cm_f0920144ccam016411.lb</u> 1/16/2023 11:37 AM 12632 <u>cc1_202715451cm_f0920144ccam016411.lb</u> 1/16/2023 11:37 AM 12632 <u>cc1_202715451cm_f0920144ccam016411.lb</u> 1/16/2023 11:37 AM 12632 <u>cc1_202715451cm_f0920144ccam016411.lb</u> 1/16/2023 11:37 AM 12632 <u>cc1_202715451cm_f0920144ccam016411.lb</u>	2/10/2023	11:37	AM	3005857	cl5_720715928ccs_f0980144ccam01641p3.csv
2/16/2023 11:37 AM 28338 c15_720715928cmd_f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715571csr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715571csr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715570sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715570sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715570sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715870sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715870sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715870sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715890sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715890sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715890sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715407sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_720715407sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_7207154507sr.f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_7207154507sr.f0980144ccam016411.1b1 2/16/2023 11:37 AM 284812 c19_7207154507sr.f0980144ccam016411.1b1	2/10/2023	11:37	AM	28146	cl5_720715928ccs_f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 16797 c12_720715571exy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 264812 c12_720715571exy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16795 c12_720715571exy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16795 c12_72071552851xy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16783 c12_7207158251xy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16783 c12_7207158251xy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16795 c12_7207158251xy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16795 c12_7207158251xy_07928144ccem81641a.lbl 2/16/2023 11:37 AM 16795 c12_7207158251xy_0798144ccem81641a.lbl 2/16/2023 11:37 AM 16792 c12_72071561205x_0798144ccem81641a.lbl 2/16/2023 11:37 AM 12637 cc1_720715451205x_0798144ccem81641a.lbl 2/16/2023 11:37 AM 12637 cc1_720715451205x_0798144ccem81641a.lbl 2/16/2023 11:37 AM 12637 cc1_720715451254544ccem81641a.lbl 2/16/2023 11:37 AM 12637 cc1_7207154513651x_07988144ccem816411.lbl 2/16/2023 11:37 AM 12632 cc1_7207154513651x_07988144ccem816411.lbl	2/10/2023	11:37	AM	2241467	cl5_720715928rdr_f0980144ccam01641p3.csv
2/16/2023 11:37 AM 284812 c19_202715671xsy_f0988144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715570sy_f0988144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715570sy_f0988144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715520sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715820sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715820sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715820sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715820sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715800sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715800sy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_202715401arsy_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_2027154501arc_f098144ccam01641a3.lbl 2/16/2023 11:37 AM 284812 c19_2027154501arc_f098144ccam01641a1.lbl 2/16/2023 11:37 AM 284812 c19_2027154501arc_f098144ccam01641a1.lbl 2/16/2023 11:37 AM 284812 c19_2027154501arc_f098144ccam01641a1.lbl	2/10/2023	11:37	AM	28338	cl5_720715928rdr_f0980144ccam01641p3.lb1
2/16/2023 11:37 AM 16795 10.27271575085x (79080144ccam016415.1b) 2/16/2023 11:37 AM 26812 12.27271575085x (79080144ccam016415.1b) 2/16/2023 11:37 AM 16783 10.272715825555x (79080144ccam016415.1b) 2/16/2023 11:37 AM 16795 10.272715825555x (79080144ccam016416.2.1b) 2/16/2023 11:37 AM 16795 10.2720715805555x (79080144ccam016416.2.1b) 2/16/2023 11:37 AM 10.975 10.2720715805555x (79080144ccam016416.2.1b) 2/16/2023 11:37 AM 264812 10.272071580555x (79080144ccam016416.2.1b) 2/16/2023 11:37 AM 264812 10.27207158055x (79080144ccam016415.2.1b) 2/16/2023 11:37 AM 2632 rc.27207158055x (79080144ccam016415.2.1b) 2/16/2023 11:37 AM 2632 rc.272071545855cc (79080144ccam016411.1b) 2/16/2023 11:37 AM 2699638 rc.272071545855cc (79080144ccam016411.1b) 2/16/2023 11:37 AM 2699638 rc.272071545857ccc (79080144ccam016411.1b)<	2/10/2023	11:37	AM	16797	cl9_720715671psv_f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 284812 c19_2071575080xy_f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_207158250xy_f0980144ccam016410.1b1 2/16/2023 11:37 AM 284812 c19_207158250xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715805xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715805xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715805xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715805xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715405xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_20715405xy_f0980144ccam016410.3.1b1 2/16/2023 11:37 AM 284812 c19_207154505xr_f0980144ccam016411.1b1 2/16/2023 11:37 AM 2099638 crg_2207154505xr_f0980144ccam016411.1b1 2/16/2023 11:37 AM 2099638 crg_2207154505xr_f0980144ccam016411.1b1	2/10/2023	11:37	AM		
2/16/2023 11:37 AM 16783 16.2 202715825ssssy169381446ccam81641.b.l.bl 2/16/2023 11:37 AM 248412 6.1 202715825ssssy169381446ccam81641.b.l.bl 2/16/2023 11:37 AM 16795 6.1 2027159208174525ss 2/16/2023 11:37 AM 16795 6.1 20271590801xx f09801446ccam81641b.l.bl 2/16/2023 11:37 AM 16795 6.1 20271590801xx f09801446ccam81641b.l.bl 2/16/2023 11:37 AM 16795 2.0 20271508081xx f09801446ccam81641b.l.bl 2/16/2023 11:37 AM 2627 6.7 2071546387x f09801446ccam81641b.l.bl 2/16/2023 11:37 AM 2627 6.7 2071545387x f09801446ccam816411.l.bl 2/16/2023 11:37 AM 2099638 cm 2071545487x f09801446ccam816411.l.bl 2/16/2023 11:37 AM 2628 cm 2071545487x f09801446ccam816411.l.bl 2/16/2023 11:37			AM		
2/16/2023 11:37 AM 284812 c19_202715825xxy_f0980144ccam01641a3.tb) 2/16/2023 11:37 AM 284812 c19_202715800xy_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c19_202715800xy_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c19_202715800xy_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c19_202715407xy_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c19_202715407xy_f0980144ccam01641a3.lb) 2/16/2023 11:37 AM 284812 c19_202715407xy_f0980144ccam01641a1.lb) 2/16/2023 11:37 AM 284812 c19_202715450xr_f0980144ccam016411.lb) 2/16/2023 11:37 AM 2899638 cm_2202715450xr_f0980144ccam016411.lb)	2/10/2023	11:37	AM	284812	c19_720715750psv_f0980144ccam01641p3.tab
2/16/2023 11:37 AM 16795 10.220715900syv_f0980144ccam01641b3.lbl 2/16/2023 11:37 AM 268412 10.220715900syv_f0980144ccam01641b3.lbl 2/16/2023 11:37 AM 268412 10.220715010syv_f0980144ccam01641b3.lbl 2/16/2023 11:37 AM 268412 10.220716107xyv_f0980144ccam01641b3.lbl 2/16/2023 11:37 AM 268412 10.220716107xyv_f0980144ccam01641b3.lbl 2/16/2023 11:37 AM 26827 cm.270715453pcr.cm.6980144ccam016411.lbl 2/16/2023 11:37 AM 2699638 cm.270715453pcr.cm.6980144ccam016411.lbl 2/16/2023 11:37 AM 2699638 cm.270715453pcr.cm.6980144ccam016411.lbl	2/10/2023	11:37	AM	16783	cl9_720715825psv_f0980144ccam01641p3.lbl
2/16/2023 11:37 AM 284812 c19_202715900xy_f0980144ccam01641b.tb) 2/16/2023 11:37 AM 16792 c19_202715070xy_f0980144ccam01641b.lb) 2/16/2023 11:37 AM 284812 c19_202715407xy_f0980144ccam01641b.lb) 2/16/2023 11:37 AM 16237 cng_202715450rc_f0980144ccam016411.lb) 2/16/2023 11:37 AM 209658 cng_202715450rc_f0980144ccam016411.lb) 2/16/2023 11:37 AM 16292 cng_202715450rc_f0980144ccam016411.lb)	2/10/2023	11:37	AM	284812	cl9_720715825psv_f0980144ccam01641p3.tab
2/16/2023 11:37 AM 16792 16/27.507.505.905.005.005.005.005.005.005.005.005	2/10/2023	11:37	AM	16795	cl9_720715900psv_f0980144ccam01641p3.lbl
2/10/2023 11:37 AM 284812 clp_720716107psv_f0980144ccam01641p3.tab 2/10/2023 11:37 AM 16237 cr0_720715463prc_f0980144ccam0164111.lbl 2/10/2023 11:37 AM 2099638 cr0_720715463prc_f0980144ccam0164111.lbl 2/10/2023 11:37 AM 2099638 cr0_720715463prc_f0980144ccam0164111.lbl 2/10/2023 11:37 AM 16203 cr0_720715613prc_f0980144ccam0164111.lbl	2/10/2023	11:37	AM	284812	c19_720715900psv_f0980144ccam01641p3.tab
2/10/2023 11:37 AM 16237 cr0 720715463prc f0980144ccam0164111.bl 2/10/2023 11:37 AM 2090638 cr0 720715463prc f0980144ccam0164111.bl 2/10/2023 11:37 AM 16203 cr0 720715430prc f0980144ccam016411.bl	2/10/2023	11:37	AM	16792	cl9_720716107psv_f0980144ccam01641p3.lbl
2/10/2023 11:37 AM 2099638 <u>cr0_720715463prc_f0980144ccam0164111.tif</u> 2/10/2023 11:37 AM 16203 <u>cr0_720716130prc_f0980144ccam0164111.lb1</u>	2/10/2023	11:37	AM	284812	cl9_720716107psv_f0980144ccam01641p3.tab
2/10/2023 11:37 AM 16203 cr0_720716130prc_f0980144ccam0164111.lbl			AM		
2/10/2023 11:37 AM 2099638 cr0_720716130prc_f0980144ccam0164111.tif	2/10/2023	11:37	AM	16203	cr0_720716130prc_f0980144ccam0164111.lbl
	2/10/2023	11:37	AM	2099638	cr0_720716130prc_f0980144ccam01641l1.tif

Analyst's Notebook

The Analyst's Notebook supports data discoverability and access for landed missions by integrating sequence information, engineering and science data, observation planning and targeting, and documentation into a web-based application.

Updated commensurate with scheduled public archive releases.

InSight release 17	30 Jun 2023
Mars 2020 release 7	27 Jul 2023
MSL release 33	01 Aug 2023



Adding value to the PDS archives

Standard PDS Release

Archived Data

- Standard EDR and RDR data products

Documentation

- Software Interface Specification
- Spacecraft and instrument reports

Calibration Data

- Calibration reports and data

Additional data and tools in the Notebook

Special Products

- Additional products of interest
- Science team supplemental products

Documentation

- Daily operations reports
- Science team reports
- Historical reports

Resources

- Historical mission overview
- Science paper references
- Links to additional resources

Value Added Elements



Suite of tools and data representations that enhance archive use

- Faceted search
- Interactive maps
- Image measurement
- Integrated plans / timeline
- Data transformation
- Cross instrument data browsing
- Context mosaics

Planetary data archives are enhanced by incorporating higher order products and external resources into the AN.

Measurement tools

Drawing

• Line, arrow, rectangle, ellipse, polygon, polyline, and text.

Location

- Find a location from known coordinates
 - Provide (x, y) or (x, y, z) values in Site, Rover, or Local frame.
 - Provide map coordinates as easting and northing.
- Location metadata
 - Image pixel coordinate
 - Ground location in local, rover, or site frame
 - Distance from rover frame origin
 - Azimuth and elevation relative to head frame.

Distance

• Between two points or along a polyline.

Elevation profile

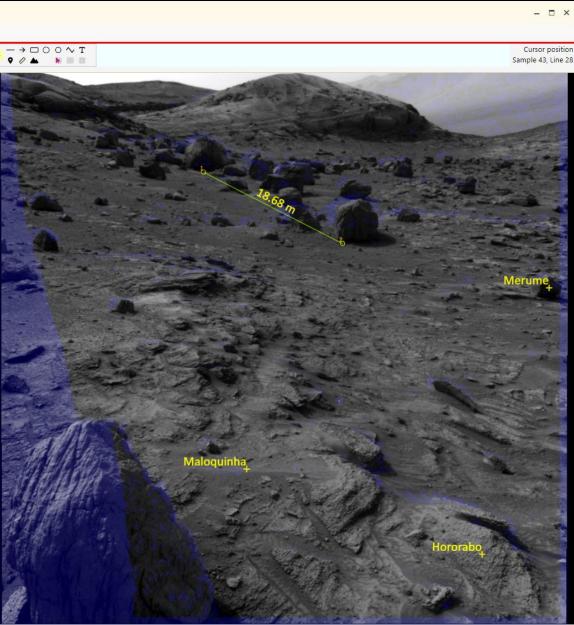
Between two points or along polyline.

Measurements use archive XYZ products.

₩ Rad-corrected absolute radiance units, integer Sol 3543 NLB 712027444RADLF0961038NCAM00285M Actions 🔻 🛛 🔻 Product V Seroup 🔻 File 🔻 Draw 🔻 Measure 🔻 Targets 🔻 Mosaic 🔻 🛜 🔻 DRAWING (0) Q LOCATION (2) DISTANCE (1) Dist Sea Add new distance A PROFILE (0) Prof Seq- From To Ave slope # ment # Loc # Loc # Vo profiles Add new profile Click on the 📥 icon in the table above to show the elevation profile chart. TARGET (3) lororabo

Maloguin

Merume

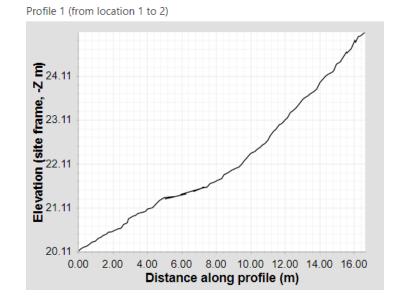


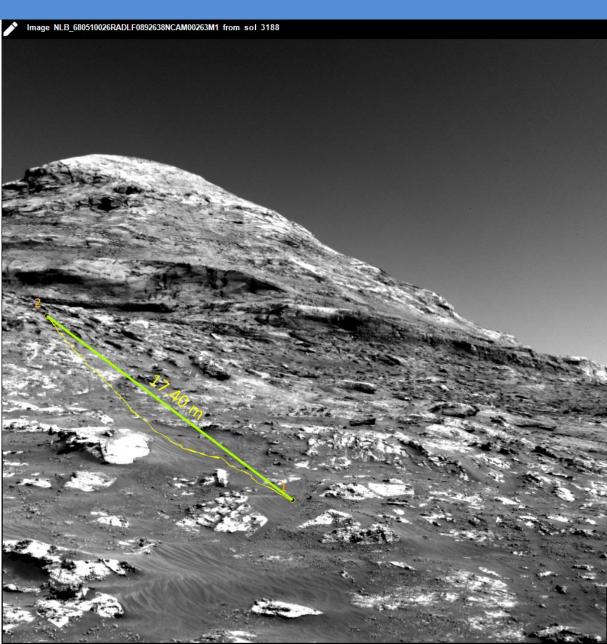
Profile tool

Elevation profile between two points or along polyline.

Elevations calculated along a path as if it were "dropped on the ground" between the two points.

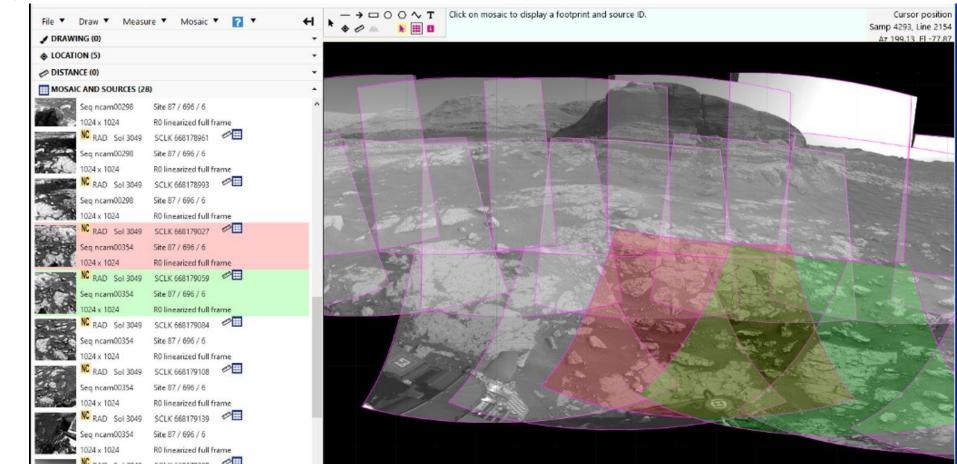
The profile is not simply the elevation values of the image pixels under the straight line drawn on the image.





Working with mosaics

- Location and distance tools are available for mosaics made from source frames with XYZ data.
- Footprint overlays show boundaries and help identify source frames.



Science targets table

Curiosity (MSL) Analyst's Notebook							stein@wund	er.wusti.edu 🐣 🧎	l la GEO
	Scie	ence targets						Signed in 🚻 🔚	
Mission summaries The mission summaries provide an overview of the Curiosity surface	MSL	. Curiosity science target							- 8 ×
operations. Information is derived from a variety of sources, including the mission science and instrument team reports.		S Reset table	? •						
About the mission Mission summaries help	by the	Mars Science Labo		planning and operation	es have been assigned ons purposes. The nam		es		
 Historical overview The mission is summarized in a mission overview table with brief 	Click of				to see details. Click on	to sort or filter the			
The mission is summarized in a mission overview table with brief entries for each day's activity.	Sol :	in a column.	Target :	Easting, m	Northing, m	Elevation, m	X local, m	Y local, m	Z local, m
Time table	3644	mark -	Mocra	8144132.5	-282214.9	-3859.66	1.73	-1.73	-0.82
Timekeeping values for each sol of the mission's landed operations are listed in the time table .									
 ? Science targets 	3644	And the second	Mocra_offset	8144132.5	-282214.9	-3859.66	1.73	-1.75	-0.83
A sortable, searchable list of science targets created by the science team.	3643		Aniqui	8144133.9	-282212.9	-3859.66	3.76	-0.40	-0.57
	3643		LD_Marker_Bed_364	8144227.5	-282109.1	-3859.66	107.49	93.24	2.53
	3643		Malacacheta	8144133.4	-282213.2	-3859.66	3.38	-0.88	-0.67
	3643		Mixiguana_ccam	8144132.6	-282214.6	-3859.66	2.04	-1.63	-0.92
	3643		Mocra_ccam	8144132.5	-282214.9	-3859.66	1.74	-1.72	-0.82
	3643		Sauba	8144142.5	-282215.2	-3859.66	1.45	8.23	1.39
	3642	9 <i>56</i>	Buena_Vista	8144133.2	-282212.4	-3860.25	2.93	-3.39	-1.53
	3642		Iracema	8144134.3	-282214.2	-3860.25	1.15	-2.28	-0.87
	3642		Mamupi	8144135.2	-282213.8	-3860.25	1.57	-1.37	-0.47
	3642		Mel	8144134.5	-282214.2	-3860.25	1.13	-2.05	-0.71
	H 4	1 2 3 4 5	🕨 🕨 Page	e size: 25 🔻					7175 item:



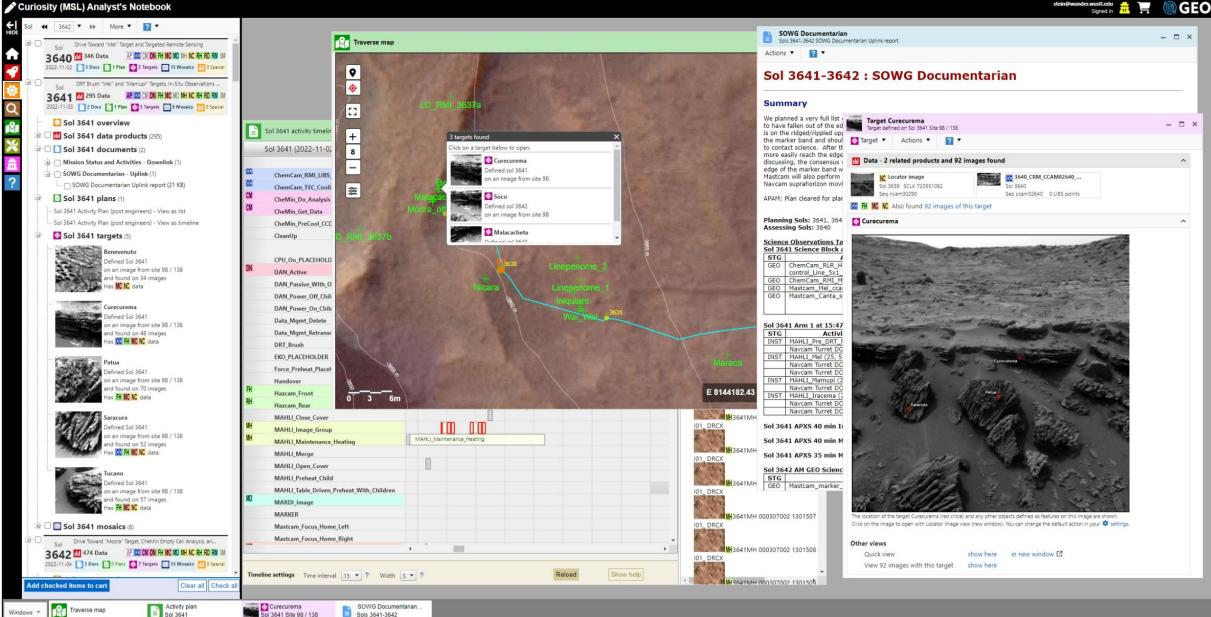
Science target links

Sols 3641-3642

Sol 3641 Site 98 / 138

Curiosity (MSL) Analyst's Notebook

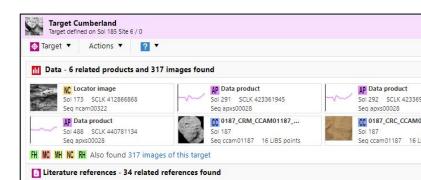
Windows *



Mars Target Encyclopedia (MTE)

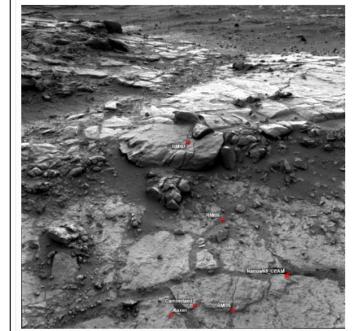
The MTE is a reference database containing compositional information about targets extracted from publications.

The AN incorporates MTE for Curiosity Rover and Phoenix Lander. An update for Spirit and **Opportunity Rover** targets is pending.



View 34 literature references for this target

O Cumberland



The location of the target Cumberland (red circle) and any other objects defined as features on this image are sho Click on the image to open with Locator image view (new window). You can change the default action in your 🌣 settings

Target Cumberland Target defined on Sol 185 Site 6 / 0 ♦ Target ▼ Actions ▼ 2 🔻

What's on this page?

The literature references below were obtained from the Mars Target Encyclopedia, which provides automatically extracted information from LPSC abstracts (2014-2016) (see Wagstaff et al. (2018) [2]). If you find an error, please let us know.

Composition and properties

Elements	References to elemental composition of this target, with relevant excerpts								
	Calcium	Chlorine	Cl Rich	Iron Nick	el Potassium	Sodium	Sulfur		
Minerals	References t	to mineral o	omposition	of this target	t, with relevant e	excerpts			
	Akaganeite Hematite Pyroxene	Augite Ilmenite Pyrrhotite	Basanite Magnetite Saponite	Olivine	Orthopyroxe	1.2	e Fe Smectite licate Plagiocla		
entions in liter	rature								
Mentions	A bibliograp	ohy of all lite	rature ment	tions found f	or this target.				

Me

Search links

Search Links to searching for other targets with similar compositional references.

Elements

Calcium

Jackson et al. (2015) "ChemCam Investigation Of The John Klein And Cumberland Drill Tailings" [, Lunar and Planetary Science Conference, Abstract #2301.

"The John Klein drill tailings have an average Ca composition of 7.7 ± 1.5 weight percent and Cumberland tailings have a Ca composition of 7.5 ± 1.0 weight percent ."

"While the Cumberland dump pile values are lower in both Ca and missing component ; these values suggest less Casulfate features in the middle portion of the drill hole, indicating that the reason for the low silica and iron in Fig. 3c is not due to an increase in Ca-sulfate features

Chlorine

Archer et al. (2015) "Oxychlorine Species On Mars: The Gale Crater Story" 🖸 , Lunar and Planetary Science Conference, Abstract #2971.

"Surprisingly, the John Klein target in the Sheepbed mudstone contained nearly 3 times less CI than the Cumberland [5]."

Berger et al. (2014) "Comparing Gale Crater And Gusev Crater Enrichments Of Fluid-Mobile Elements Measured By Alpha-Particle X-ray Spectrometers On Mars" 🖸 , Lunar and Planetary Science Conference, Abstract #2285.

"Drill fines at the Cumberland site (sols 283-287) are also enriched in CI (~ 1.4 wt %), however, JK drill fines ~ 2.5 m away Fig. 1 : Element ratios (rock : soil , see text) of fluidmobile elements in rocks in Gale Crater sols 0-359 and selected rocks from Gusev Crater sols ~ 200-1200

CI Rich

Lee et al. (2014) "Linking MAHLI And APXS To Analyze Dust Coverage On Yellowknife Bay Rock Targets" 🗗 , Lunar and Planetary Science Conference, Abstract #2144.

"be composed of a CaSO4 phase [8] , and the CI-rich target Cumberland ."

Iron

Cole et al. (2014) "Similar Microtextures In Watchtower And Comanche Class Rocks At Gusev Crater" 🗹 Lunar and Planetary Science Conference, Abstract #1652.

"The Cumberland Ridge outcrops - Methuselah , Jibsheet , and Larry 's Lookout - vary greatly in mineralogy and iron oxidation state but display a striking chemical similarity; this is consistent with aqueous alteration under low water-to-rock conditions."

Jackson et al. (2015) "ChemCam Investigation Of The John Klein And Cumberland Drill Tailings" [, Lunar and Planetary Science Conference, Abstract #2301.

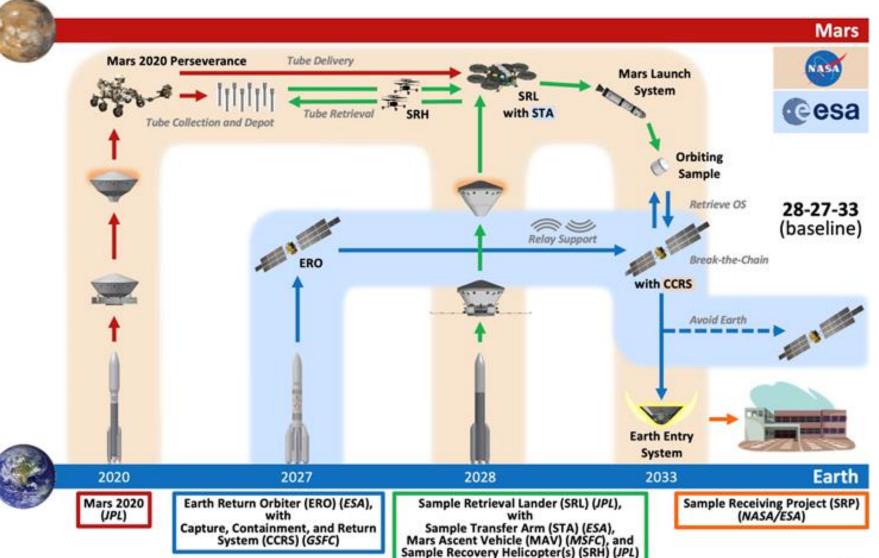
"At Cumberland there is distinctly lower iron and silica in the dump pile , compared to the tailings ."

Nickel

Gellert et al. (2015) "Chemical Evidence For An Aqueous History At Pahrump, Gale Crater, Mars, As Seen By The APXS" 🗹 , Lunai

Mars Sample Return program

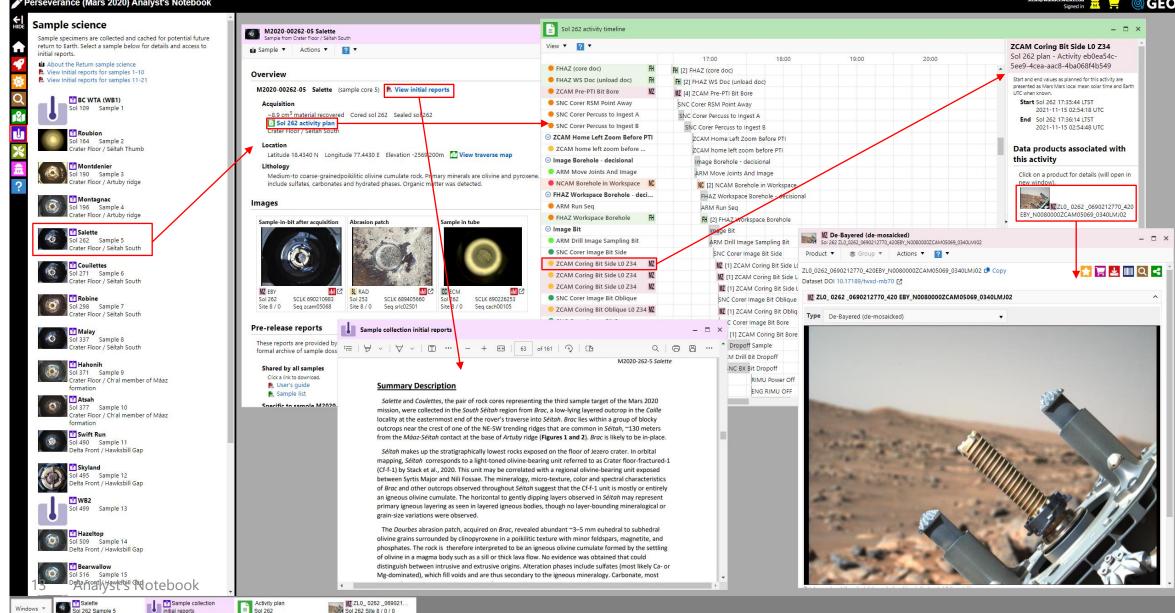
- Capture and archive operations data and contextual information
 - acquired after sample acquisition (Mars 2020)
 - during operations
 (MSR program and other MSR projects).
- Incorporate sample collection information into Analyst's Notebook with interoperability to JSC curations.



Mars 2020 sample science

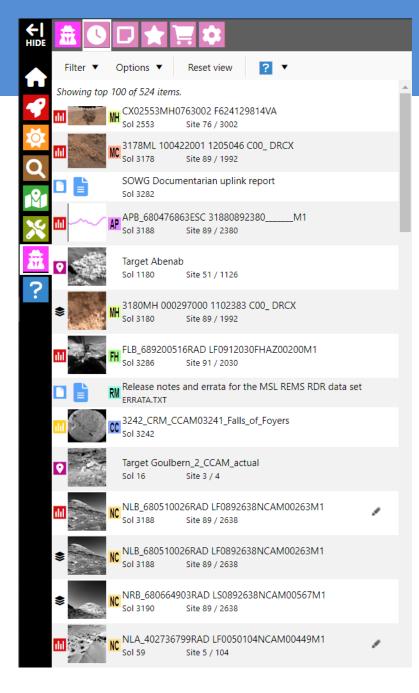
Perseverance (Mars 2020) Analyst's Notebook

GEO



User history

- Annotations (drawing and measurement elements) are saved when created.
- Annotations are loaded automatically when the image is subsequently opened in image viewer.
 - User must be signed in with optional account.



Team version for Curiosity rover

- Developed by the PDS Geosciences Node in collaboration with the MSL science team.
- Available to the team during landed operations as a non-mission critical tool.
- Content (data, plans, traverse data, and support documents) are ingested daily.
- Assists with data validation.

Team Notebook for Curiosity rover

Developed by the PDS Geosciences Node in collaboration with the MSL science team.

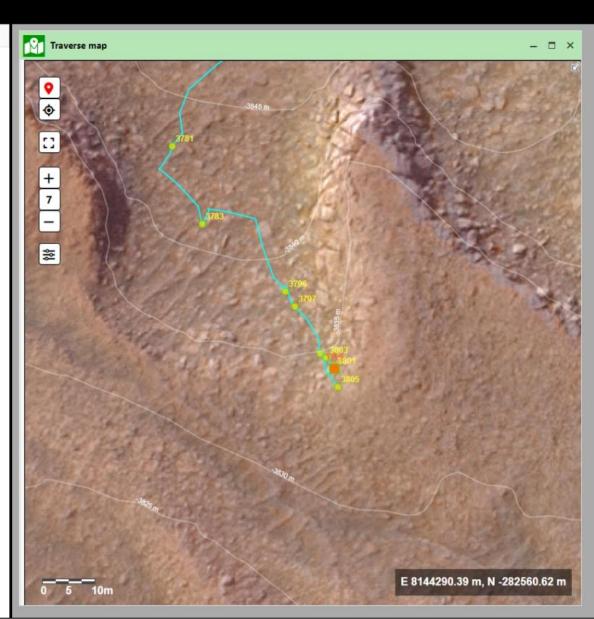
Available to the team during landed operations as a nonmission critical tool.

Content (data, plans, traverse data, and support documents) are ingested daily.

Assists with data validation.

Curiosity (MSL) Analyst's Notebook





Team Notebook – completed missions

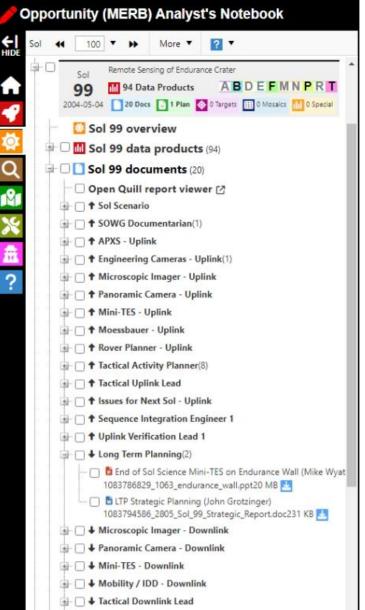
Contents of Public and Team versions are identical with limited exceptions.

Available to teamidentified collaborators.

Team-only content may be released to others by agreement.

Goal is to maintain important non-archive components for long term.







Development of Analyst's Notebook to support landed science of the Dragonfly mission during operations.

1077

an.rsl.wustl.edu

PDS Analyst's Notebook https://an.rsl.wustl.edu/

Notebook online help https://an.rsl.wustl.edu/help

Email

Tom Stein, <u>tstein@wustl.edu</u> Feng Zhou, <u>feng.zhou@wustl.edu</u> The Analyst's Notebook is developed under funding provided by NASA to the PDS Geosciences Node. Cooperation by mission science teams is greatly appreciated.

Additional input provided by the PDS Atmospheres, Imaging, and PPI Nodes, as well as by professional and citizen scientists from around the world.

Analyst's Notebook

Use the Analyst's Notebook to explore planetary data from NASA Mars and lunar landed missions. The Notebook is a web application that integrates sequence information, engineering and science data, and documentation.

Click on an icon below to open a Notebook, or </u> read the help 🗹

	Perseverance	Analyst's Notebook for Mars 202
		Mars rover data through sol 659
	Curiosity	Analyst's Notebook for MS
		Mars rover data through sol 3644
	InSight	Analyst's Notebook for InSigl
		Mars lander data for the entire mission
	Opportunity and Spirit	Analyst's Notebook for ME
		Mars rover data for the entire mission
	Phoenix	Analyst's Notebook for Phoeni
		Mars lander data for the entire mission
	LCROSS	Analyst's Notebook for LCROS
		Data from the entire mission
	Apollo	Analyst's Notebook for Apol
		Data from Apollo 11, 12, 14, 15, 16, and 17 missions
This and	lication works best on laptops ar	nd desktops

 NASA Planetary Data System

 The Analyst's Notebook is produced by NASA's PDS Geosciences Node[2" at

 Washington University in St. Louis. Contact us [2" with comments and questions, visit our community forum [2", or read our privacy policy [2".

