

UVIS MIMAS BOOK.

The intent of this Mimas icy satellite book is to give readers an idea of the observational geometry for each observation, along with a sense of the data quality.

Many of the more distant Mimas observations have the planet and/or rings in the same rows as the moon and pulling out the Mimas-only signal is non-trivial so we do not derive reflectance spectra for those observations here.

The reflectance of Mimas and the other icy satellites generally becomes very low at wavelengths shortward of the water ice absorption edge (~ 165 nm). At these short wavelengths, water ice is very dark; any apparent spectral structure at these short wavelengths is not necessarily real

For most observations, we include a calibrated average spectrum to demonstrate the brightness of any reflected solar emission lines (especially at $\lambda < 165$ nm) which are likely the most appropriate demonstration of moon reflectance at these short wavelengths.

We also include an off-body background spectrum (to save space, we show this as a calibrated spectrum overplotted on the average moon spectrum though technically the background is subtracted off before calibration)

This book covers FUV data only; EUV data are also available.

Name of observation

ISS image

Planning/geometer graphic

Note: The geometry given is usually the average over the observing time; if an observation has multiple parts, the geometry is usually the average from the first part

Long wavelength (170-180nm) image
(scaled to max value)

UVIS observation name

Date

Altitude (average)

Sub s/c longitude (avg)

Sub s/c latitude (avg)

Phase angle (avg)

Time (# integrations) ↑

Spatial pixels (rows) →

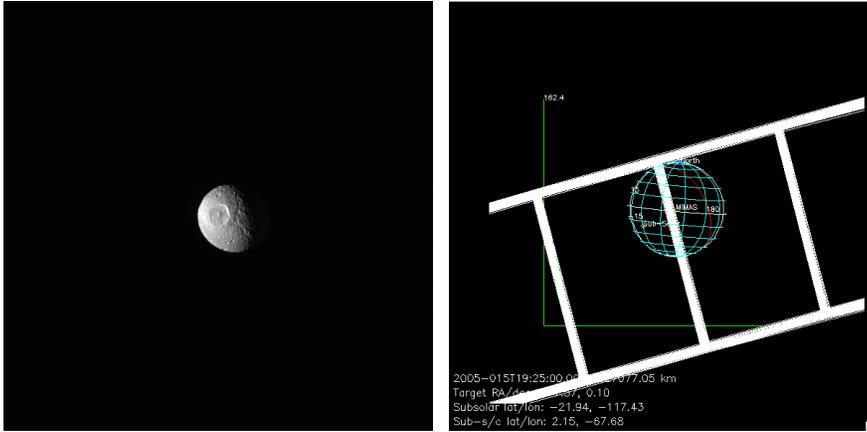
For many observations we also include:

Plot of signal vs. background

Plot of reflectance

Note: most ICYLON observations using the low-res slit and 120 sec integration periods. Most ICYMAP observations use the high-res slit and 30-sec integration periods.

MIMAS_PHOTOM001



00CMI ICYLON003_ISS

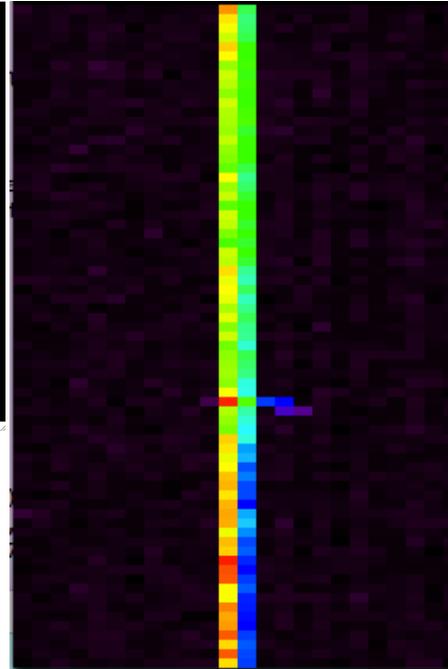
2005-015T19:26

Alt=456,780 km

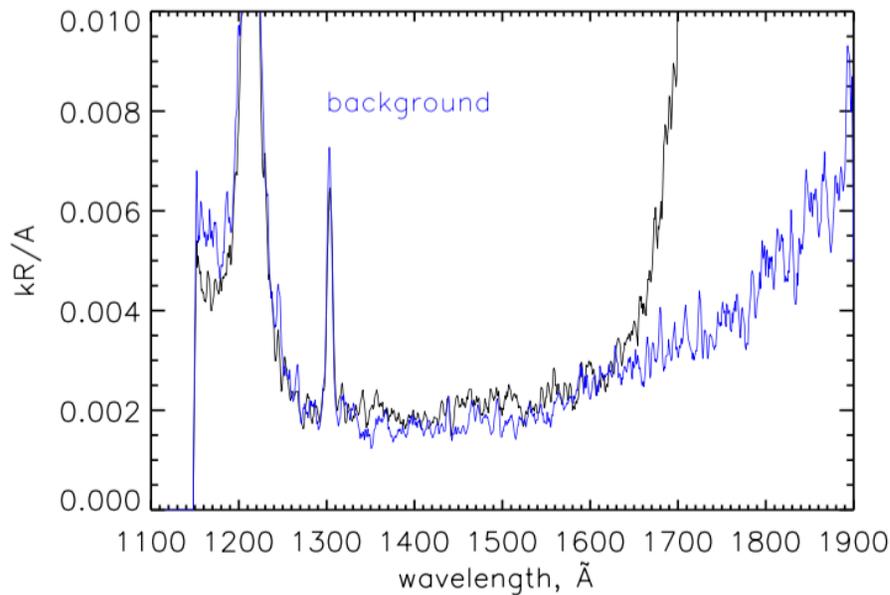
Longitude=80°W

Latitude=2.6°N

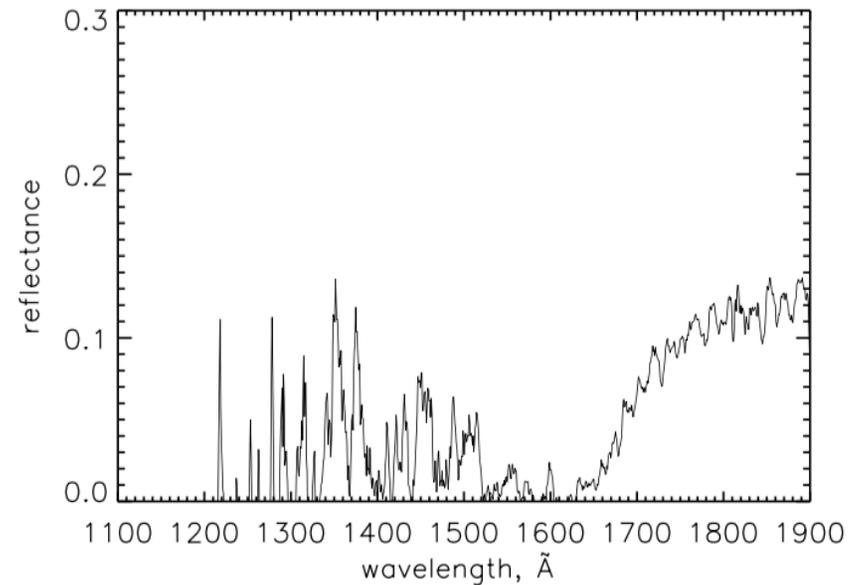
Phase=57°



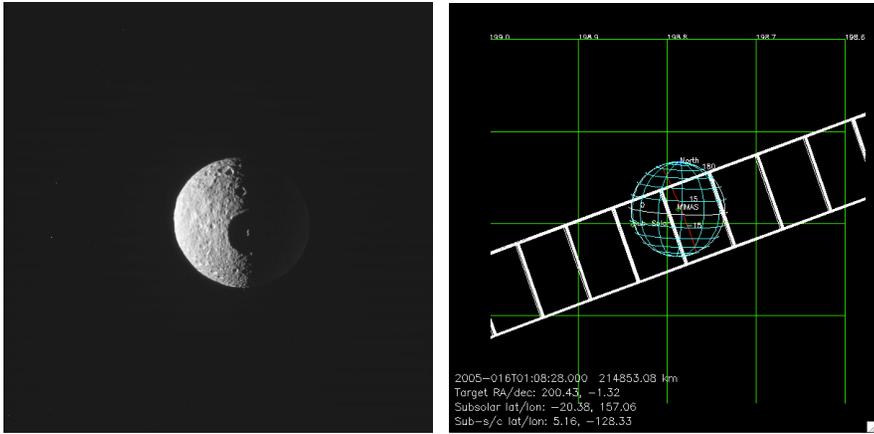
00CMI ICYLON003



00CMI_ICYLON003



MIMAS_MIMAS002



00CMI ICYLON003_VIMS

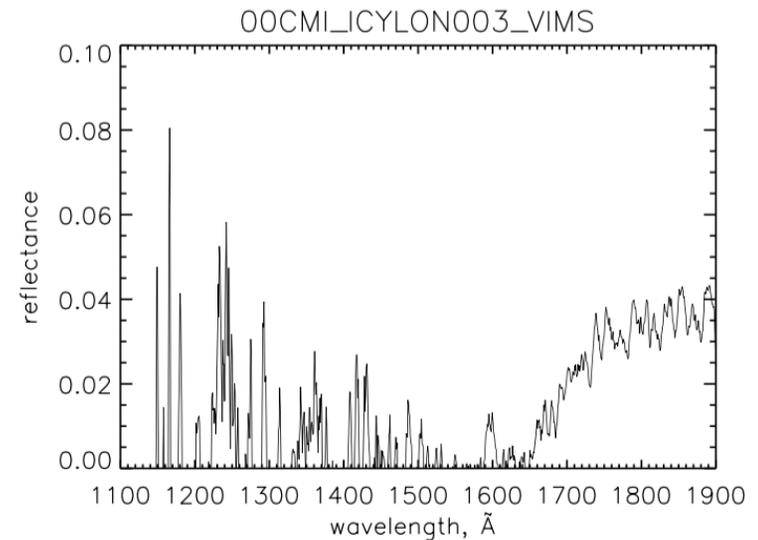
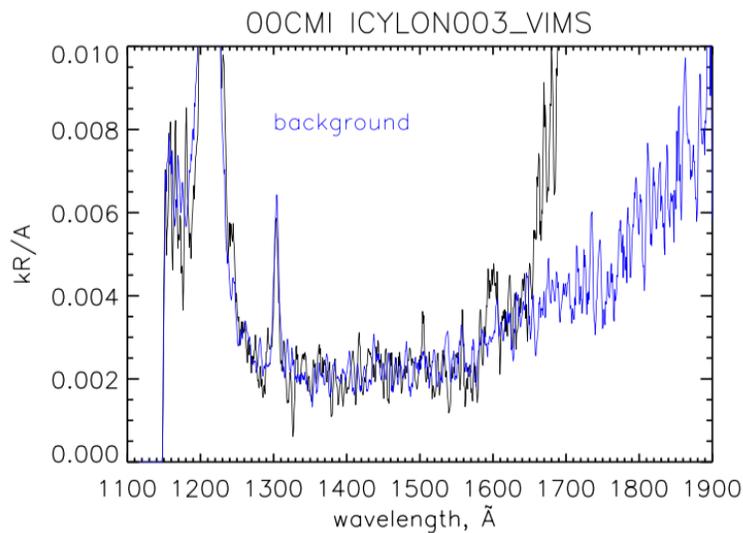
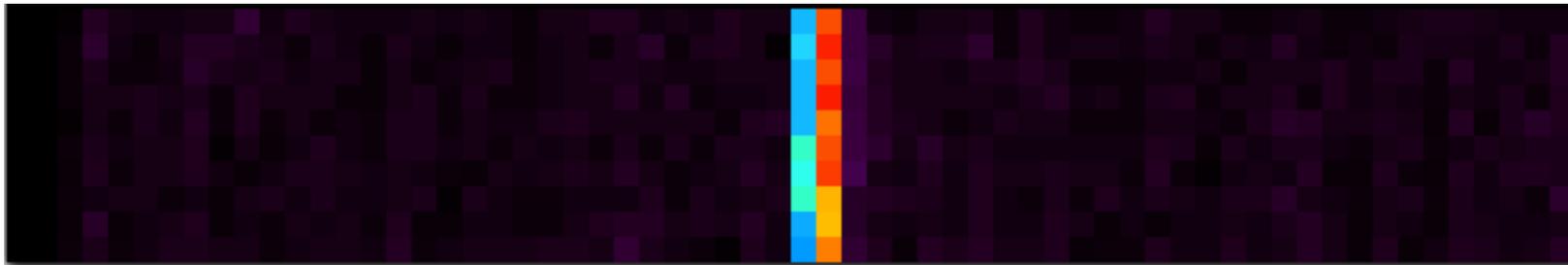
2005-016T01:09

Alt= 208,539 km

Longitude=130°W

Latitude=5.3°N

Phase=84.7°



00CMI ICYLON004_VIMS

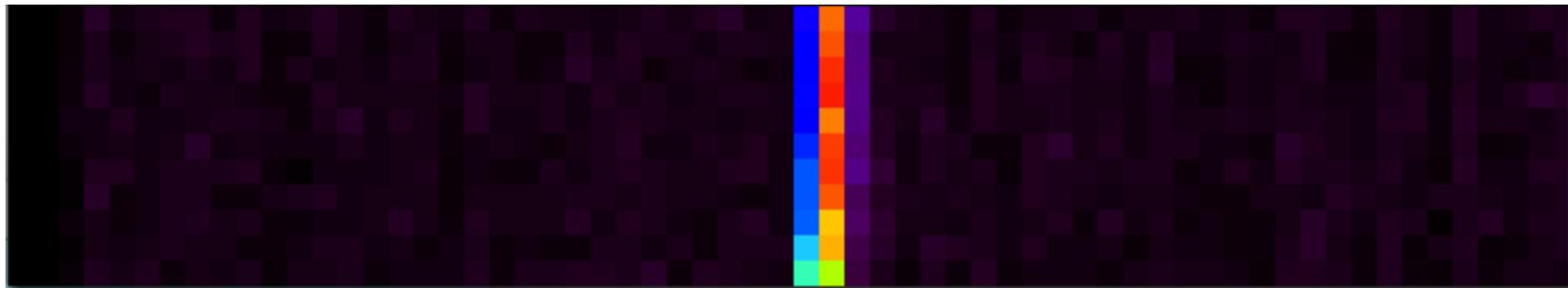
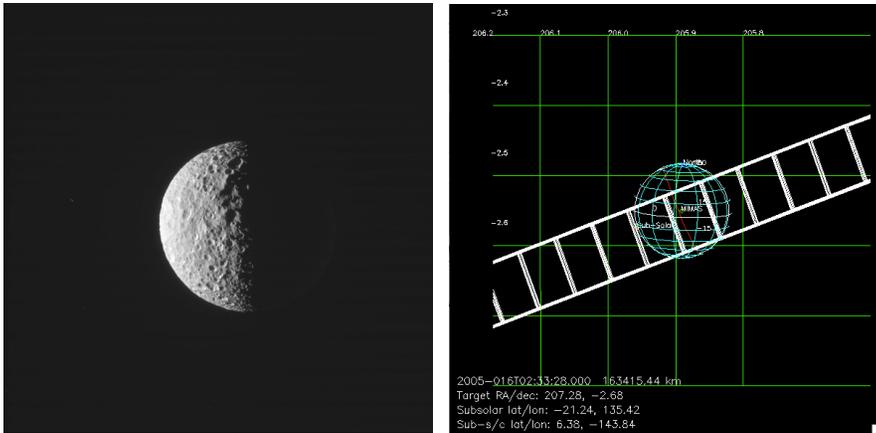
2005-016T02:34

Alt= 158,219 km

Longitude=146°W

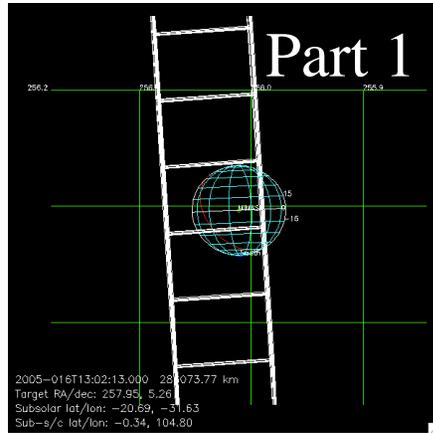
Latitude=6.5°N

Phase=91.7°



A filled row on the night side and a partly-filled row on the day side

MIMAS_MIMAS007



00CMI_ICYLON008_VIMS

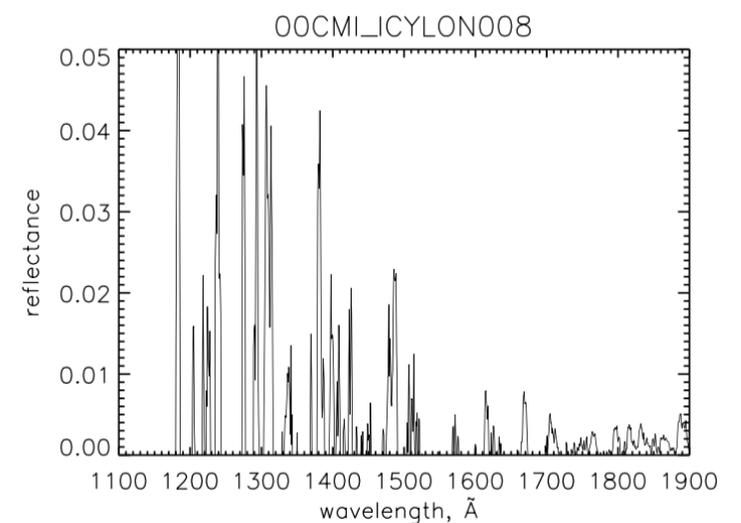
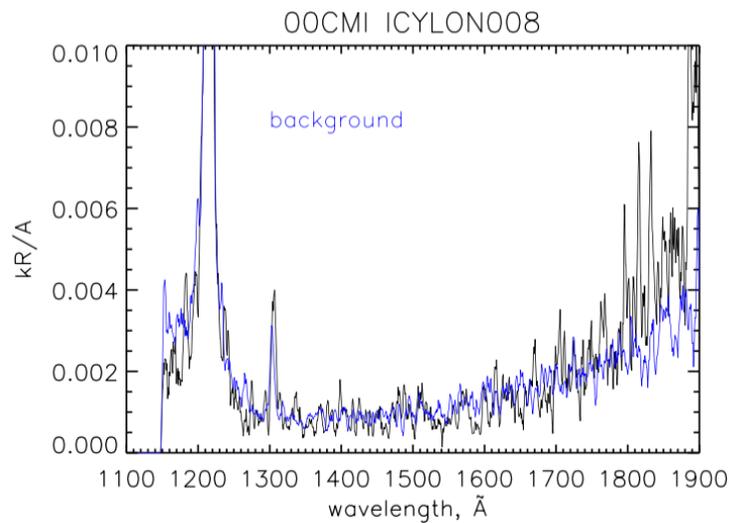
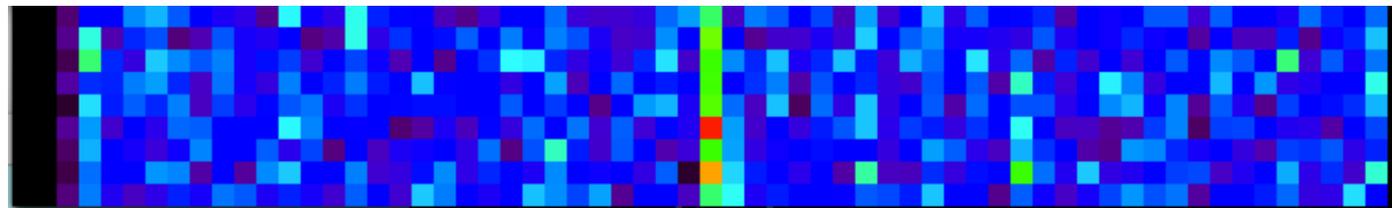
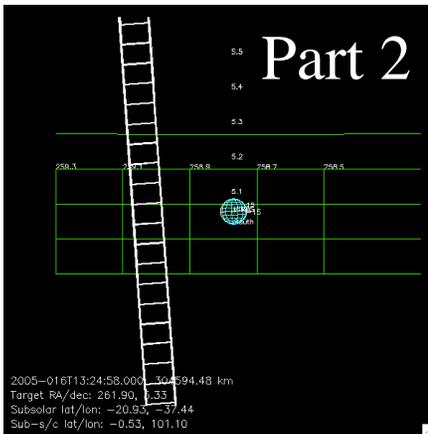
2005-016T13:03

Alt=292,329 km

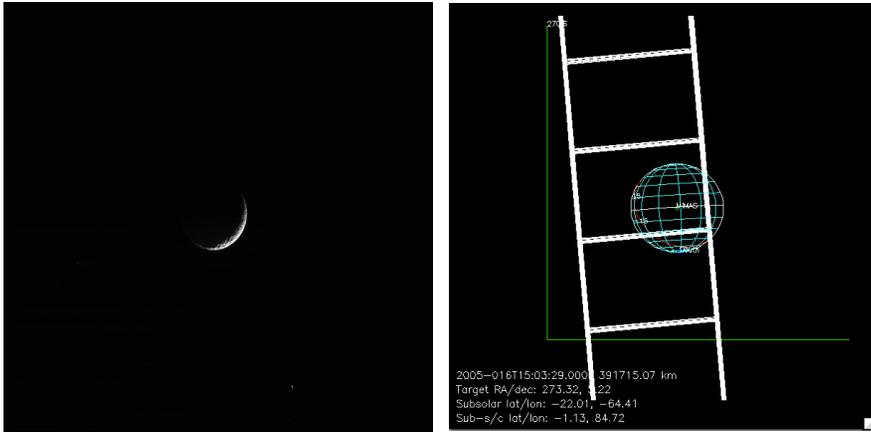
Longitude=257°W

Latitude=0.4°S

Phase=133.6°



MIMAS_MIMAS008



00CMI ICYLON009_VIMS

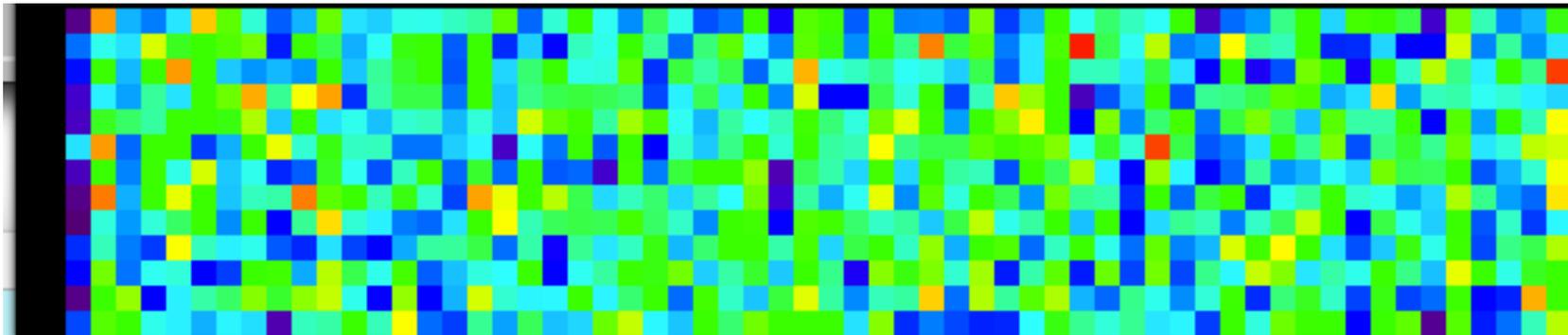
2005-016T15:04

Alt= 402,770 km

Longitude=277°W

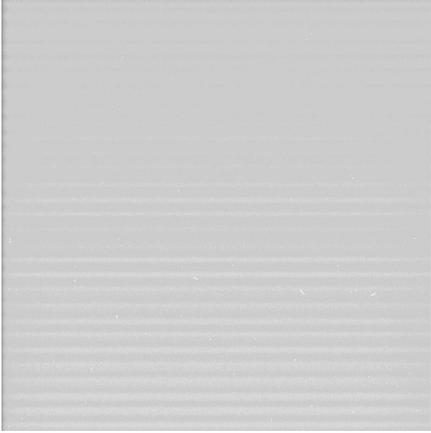
Latitude=1°S

Phase=144.6°



Low SNR

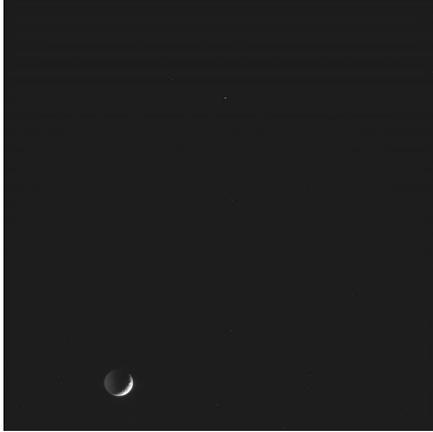
MIMAS_LONPHA001



00CMI_ICYLON012_ISS
2005-017T13:06

NOT IN UVIS SLIT

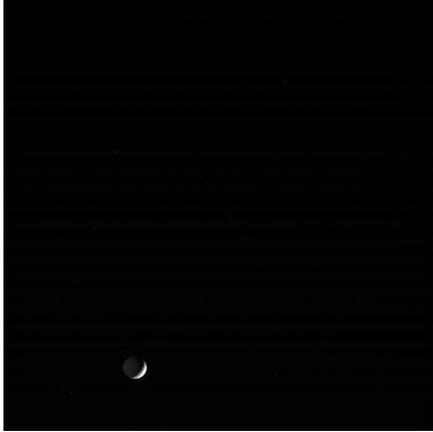
MIMAS lonpha002



00CMI_ICYLON014_ISS
2005-017T17:28

NOT IN UVIS SLIT

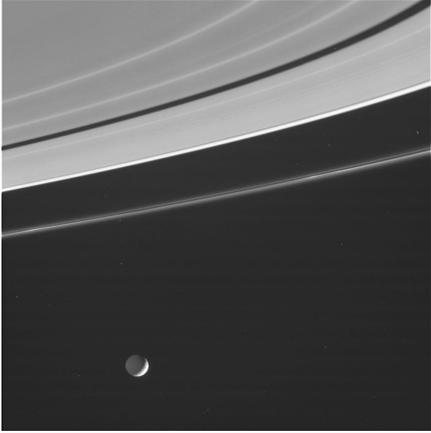
MIMAS 310W121PH001



00CMI_ICYLON015_ISS
2005-017T20:08

NOT IN UVIS SLIT

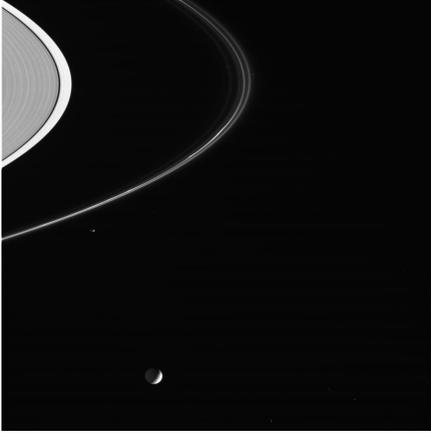
MIMAS lonpha003



00CMI_ICYLON016_ISS
2005-017T20:53

NOT IN UVIS SLIT

MIMAS lonpha005



00CMI_ICYLON017_ISS
2005-018T13:06

NOT IN UVIS SLIT

MIMAS lonpha006



00CMI_ICYLON018_ISS
2005-018T20:09

NOT IN UVIS SLIT

Mimas and Pandora

MIMAS lonpha009



00CMI_ICYLON019_ISS
2005-019T13:08

NOT IN UVIS SLIT

Rev 3 MIMAS 094W095PH001

003MI_ICYLON006_ISS

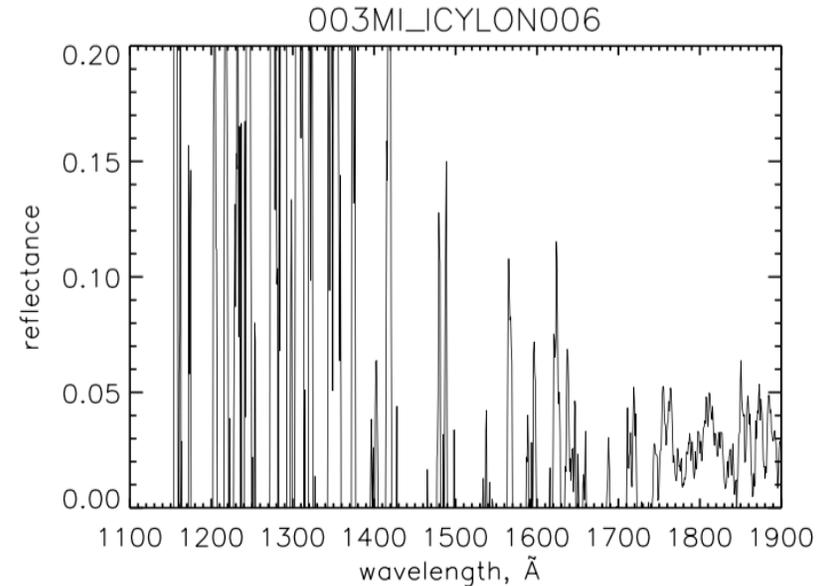
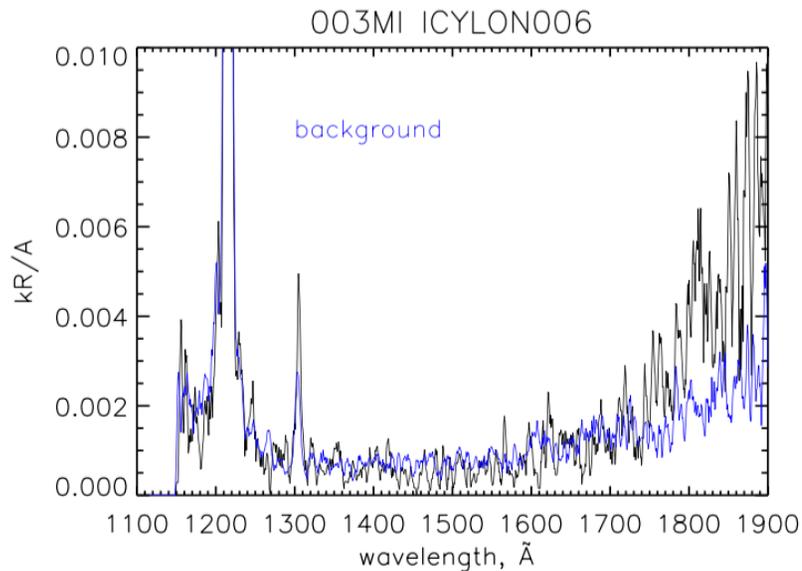
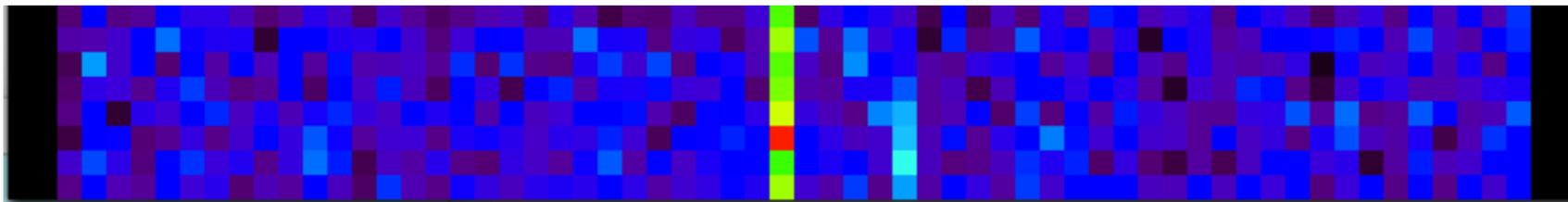
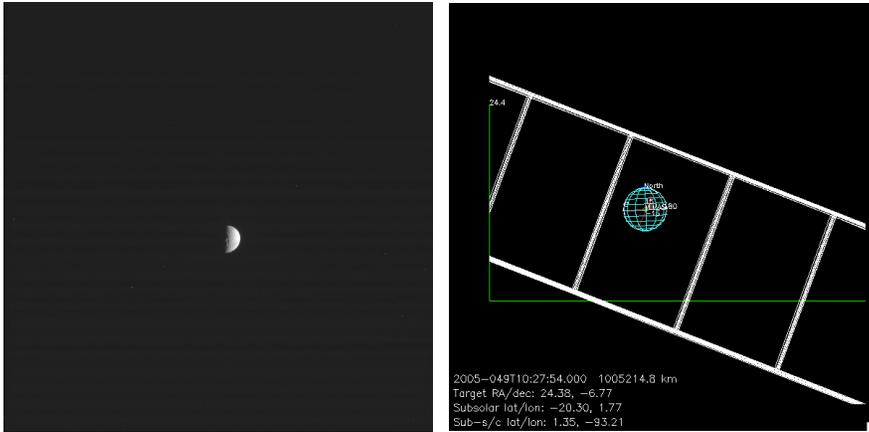
2005-049T10:28

Alt= 1,001,751 km

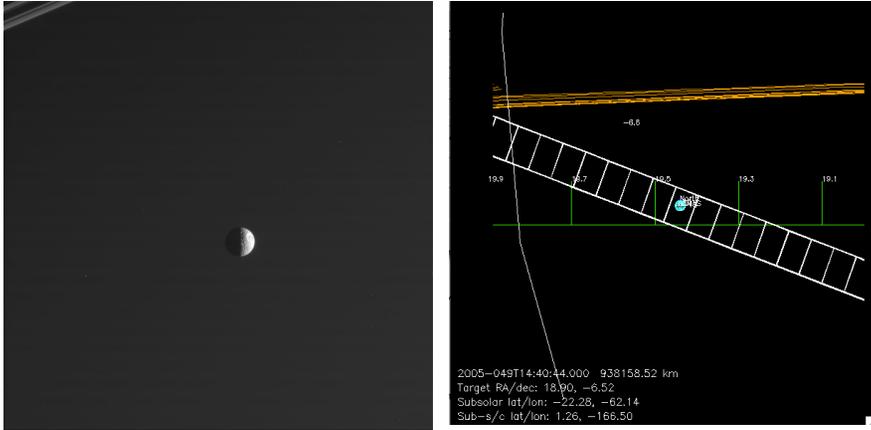
Longitude= 95°W

Latitude=1.4°N

Phase= 95°



Rev 3 MIMAS 166W100PH001



003MI_ICYLON007_ISS

2005-049T14:40

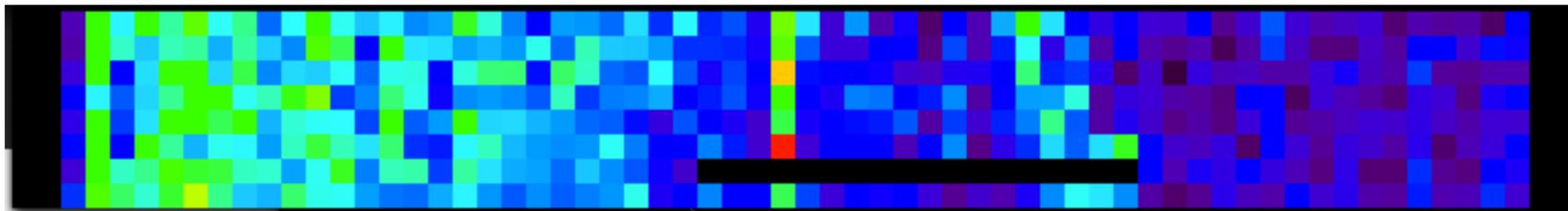
Alt= 938,827 km

Longitude= 168°W

Latitude=1.3°N

Phase= 99.7°

(Mimas in front of Saturn night side)



Rev 3 MIMAS 238W107PH001

003MI_ICYLON008_ISS

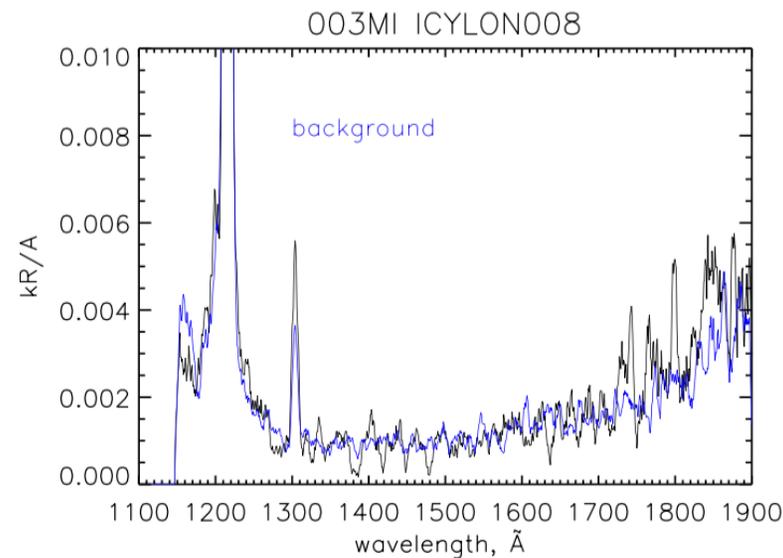
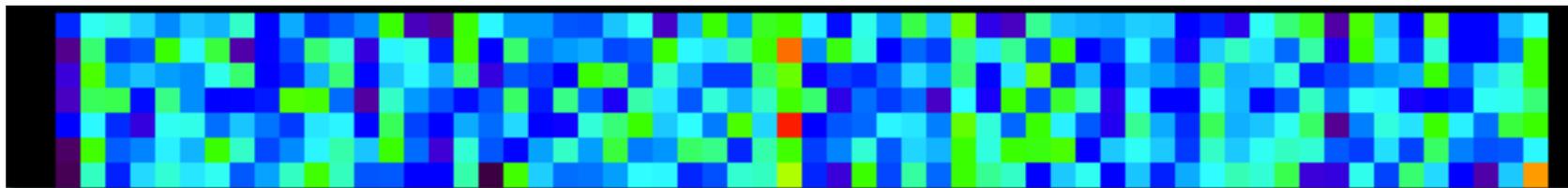
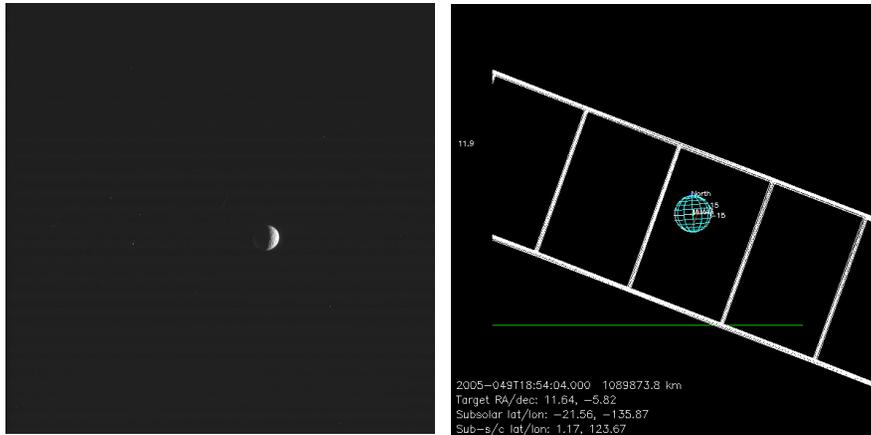
2005-049T18:55

Alt= 1,095,773 km

Longitude= 238°W

Latitude=1°N

Phase= 106.4°



Low SNR

Rev 3 MIMAS 310W104PH001

003MI_ICYLON009_ISS

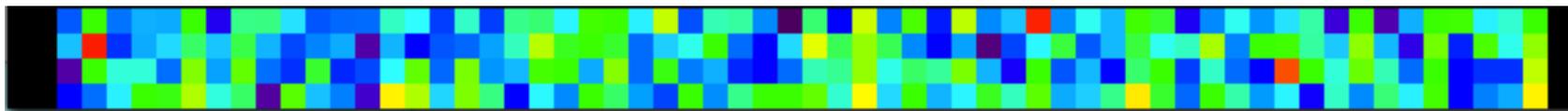
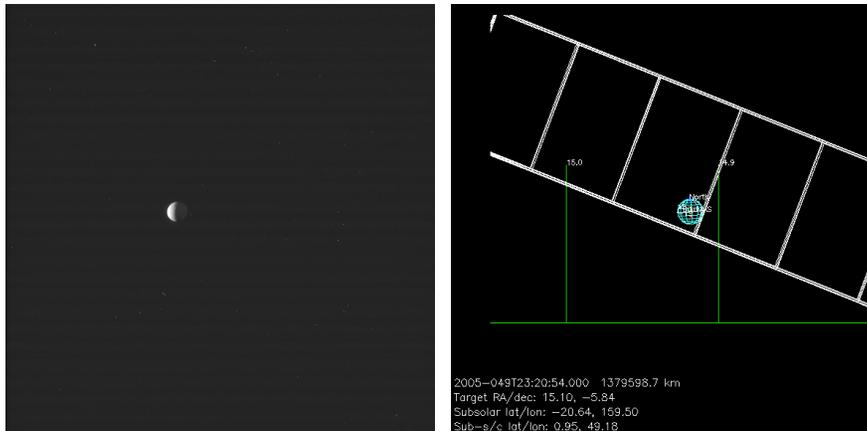
2005-049T23:21

Alt= 1,382,306 km

Longitude= 311°W

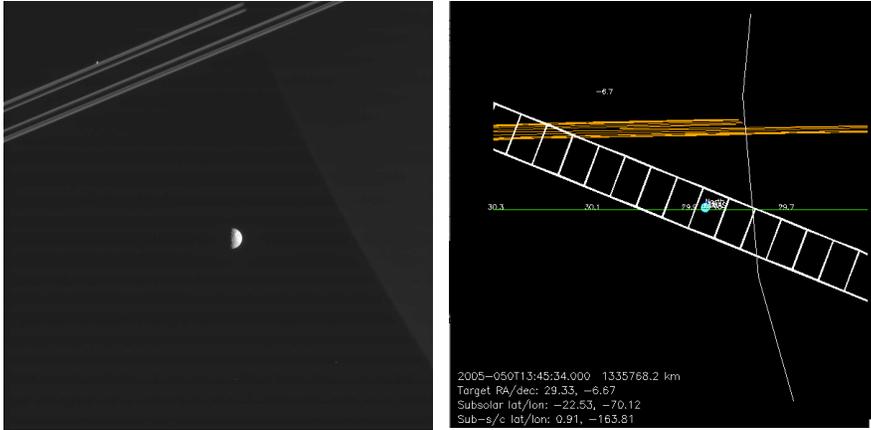
Latitude=1°N

Phase= 103.4°



Low SNR

Rev 3 MIMAS 166W090PH001



003MI_ICYLON010_ISS

2005-050T13:46

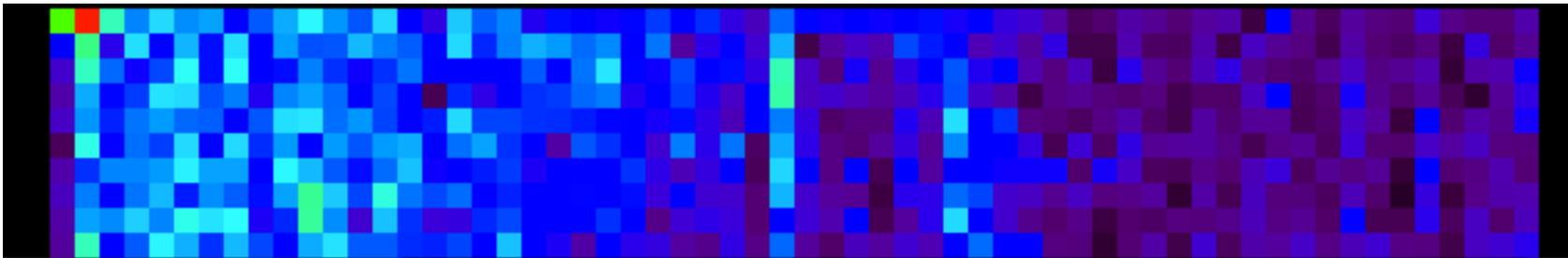
Alt= 1,335,617 km

Longitude= 166°W

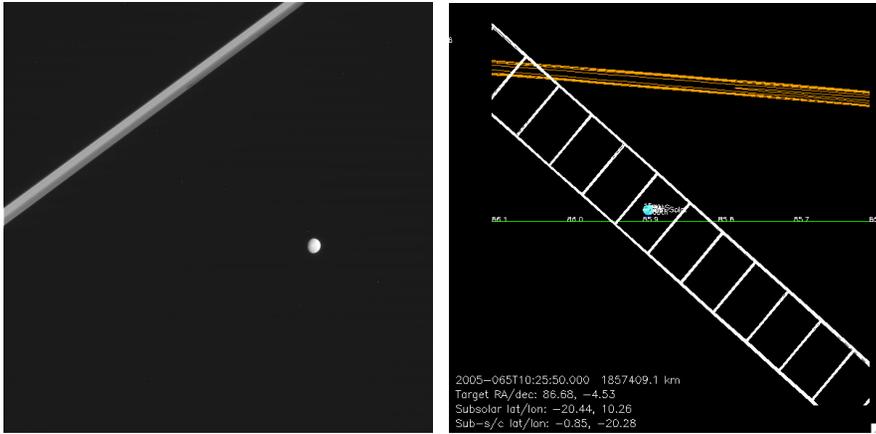
Latitude=0.9°N

Phase= 90.1°

(Mimas in front of Saturn night side)



Rev 4 MIMAS 022W040PH001



004MI_ICYLON001_ISS

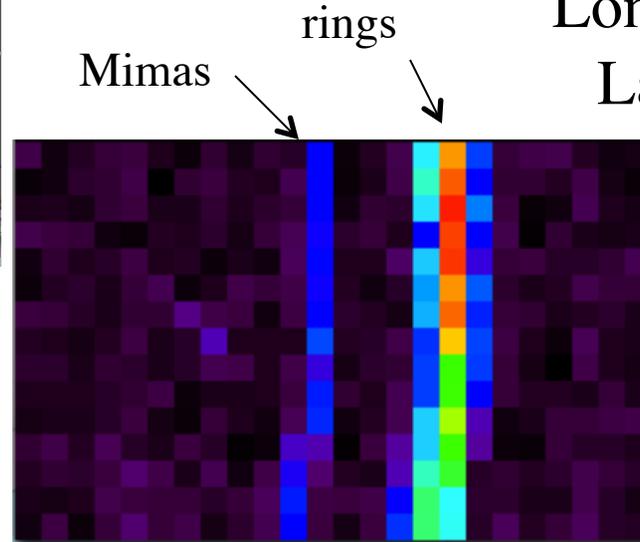
2005-065T10:26

Alt= 1,849,017 km

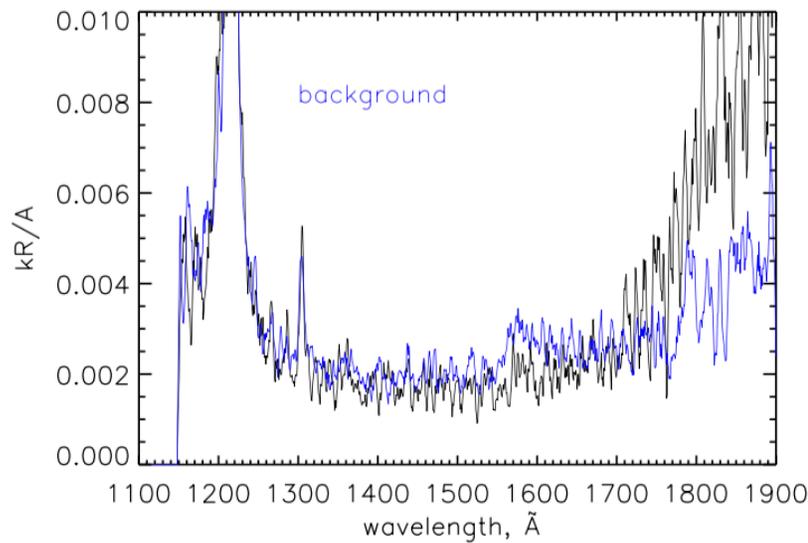
Longitude= 23°W

Latitude=0.85°S

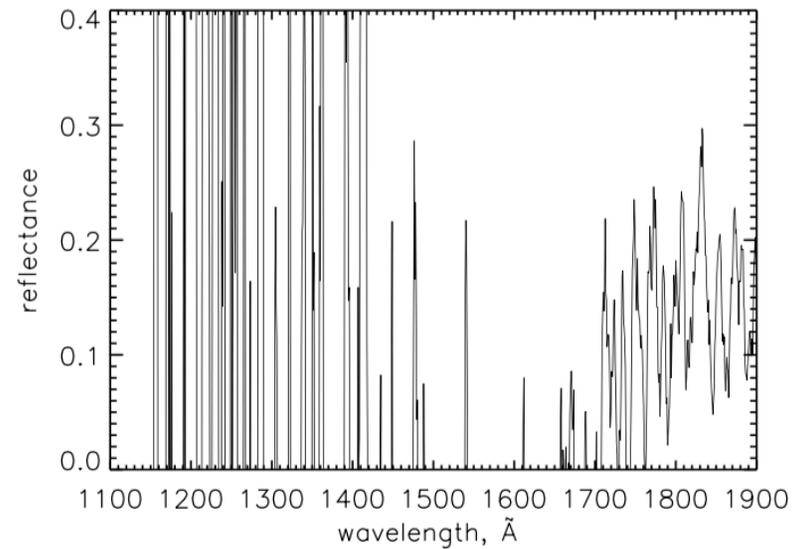
Phase= 40.1°



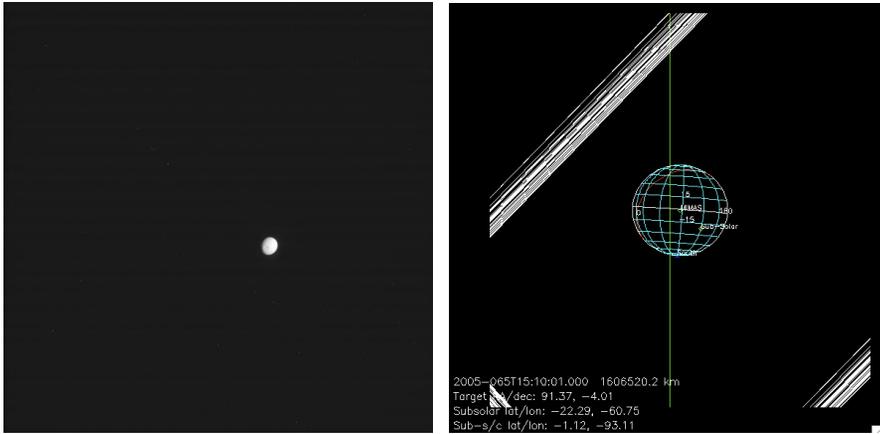
004MI_ICYLON001



004MI_ICYLON001



Rev 4 MIMAS 094W036PH001



004MI_ICYLON002_ISS

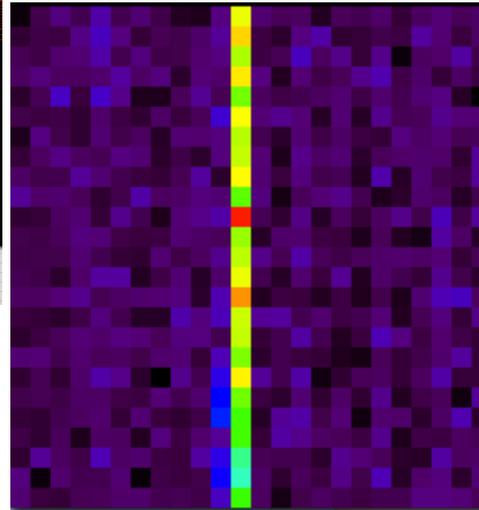
2005-065T15:11

Alt= 1,581,167 km

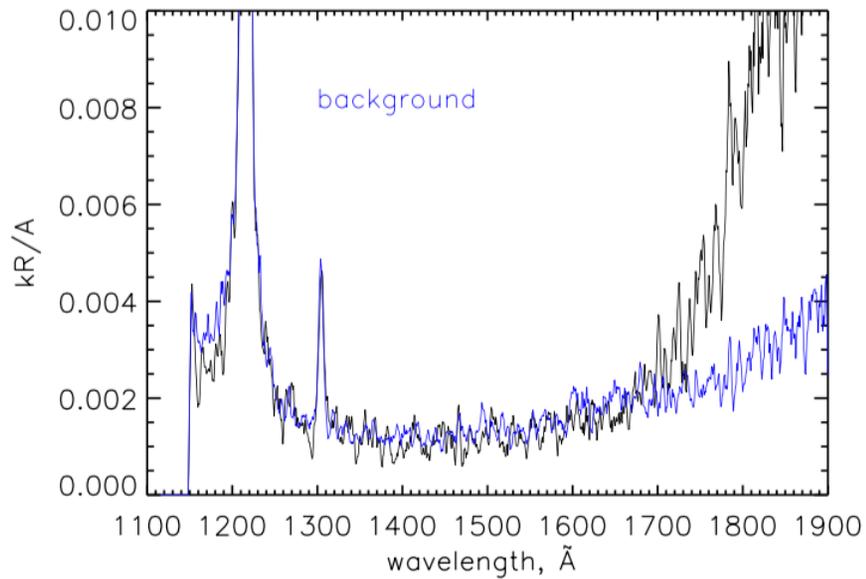
Longitude= 100°W

Latitude=1.1°S

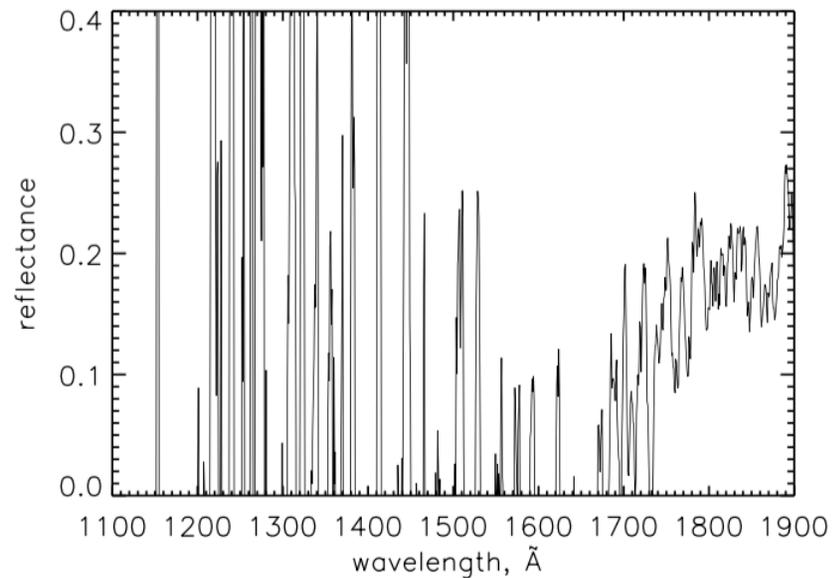
Phase= 36°



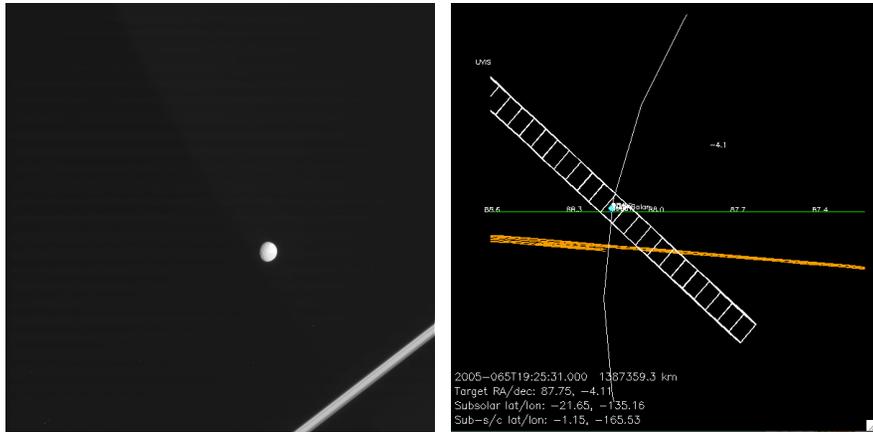
004MI ICYLON002



004MI_ICYLON002



Rev 4 MIMAS 166W039PH001



004MI_ICYLON003_ISS

2005-065T19:22

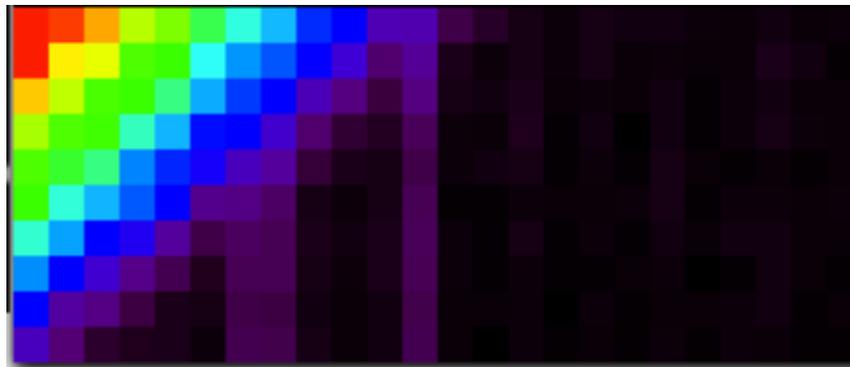
Alt= 1,384,800 km

Lon= 167°W

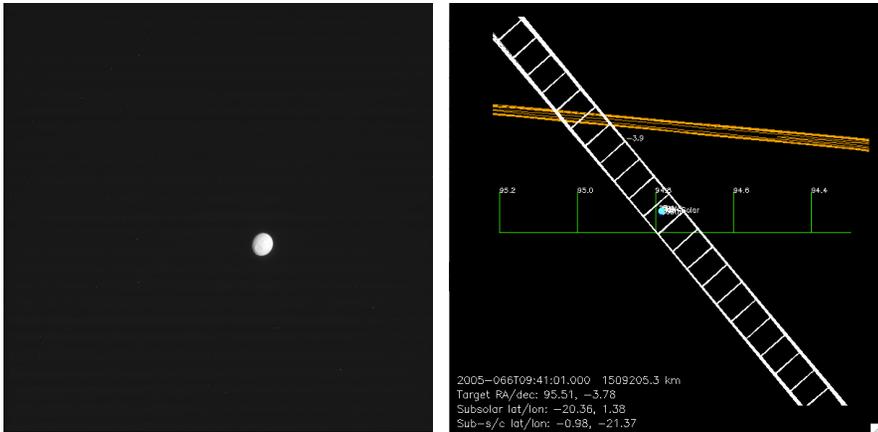
Latitude=1.1°S

Phase= 38.5°

The rings and Saturn are in the slit with Mimas



Rev 4 MIMAS 022W034PH001



004MI_ICYLON004_ISS

2005-066T09:42

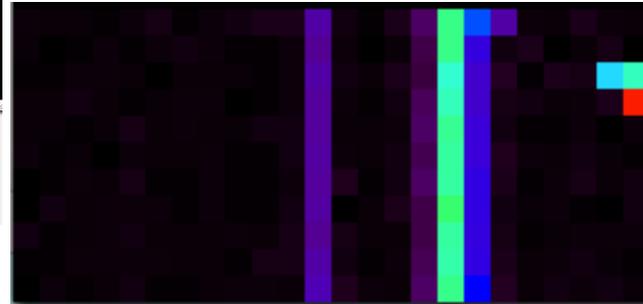
Alt= 1,502,530 km

Lon= 23°W

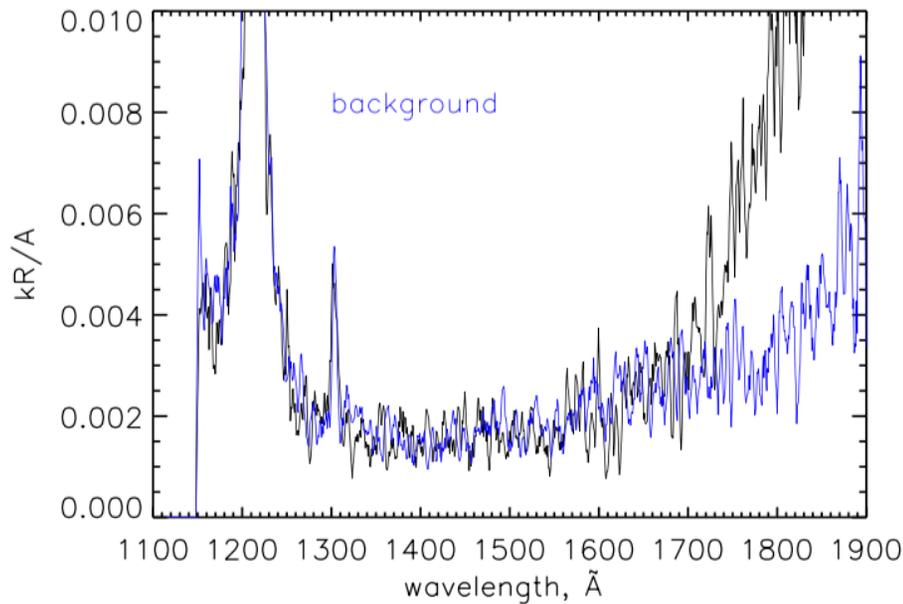
Latitude=1°S

Phase= 33.3°

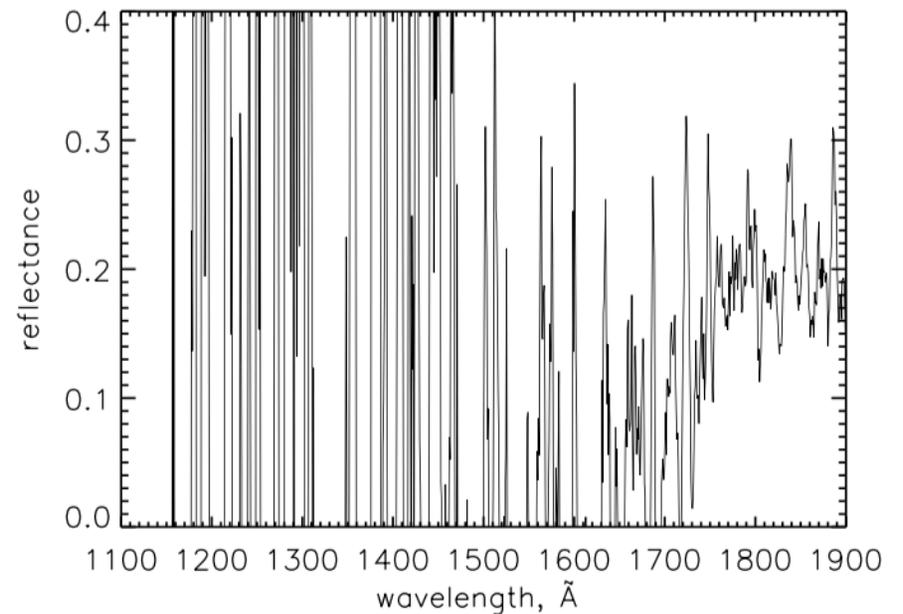
Mimas rings



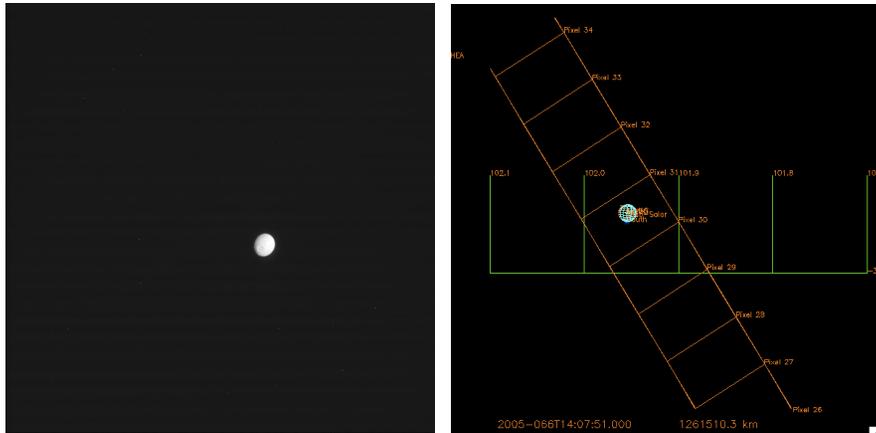
004MI_ICYLON004



004MI_ICYLON004



Rev 4 MIMAS 094W029PH001



004MI_ICYLON005_ISS

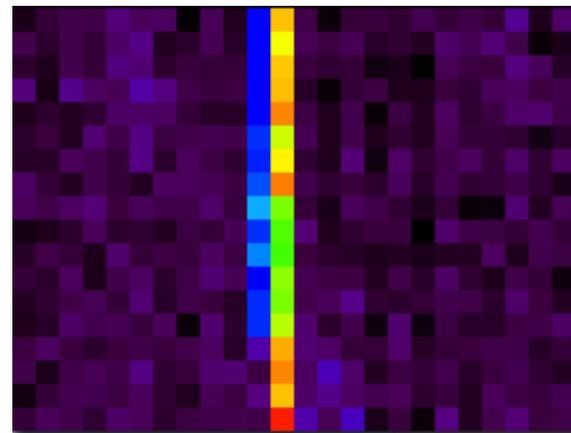
2005-066T14:08

Alt= 1,242,487 km

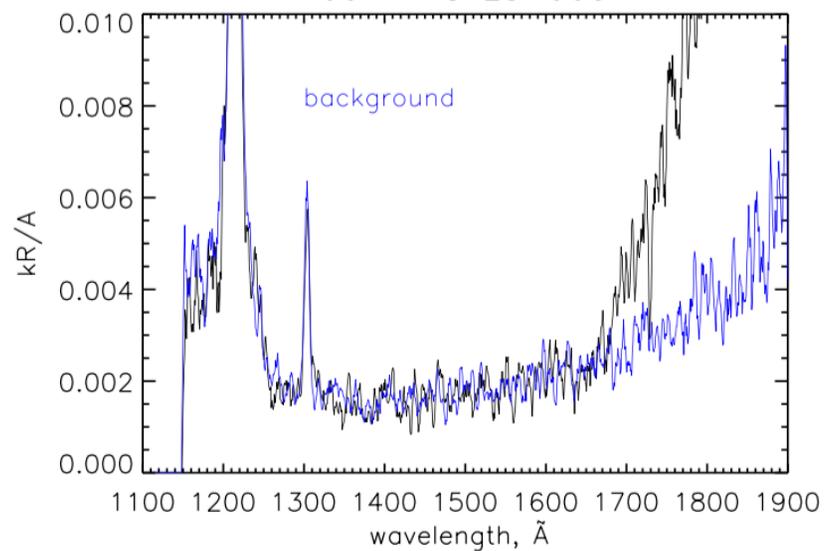
Longitude= 92°W

Latitude=1.3°S

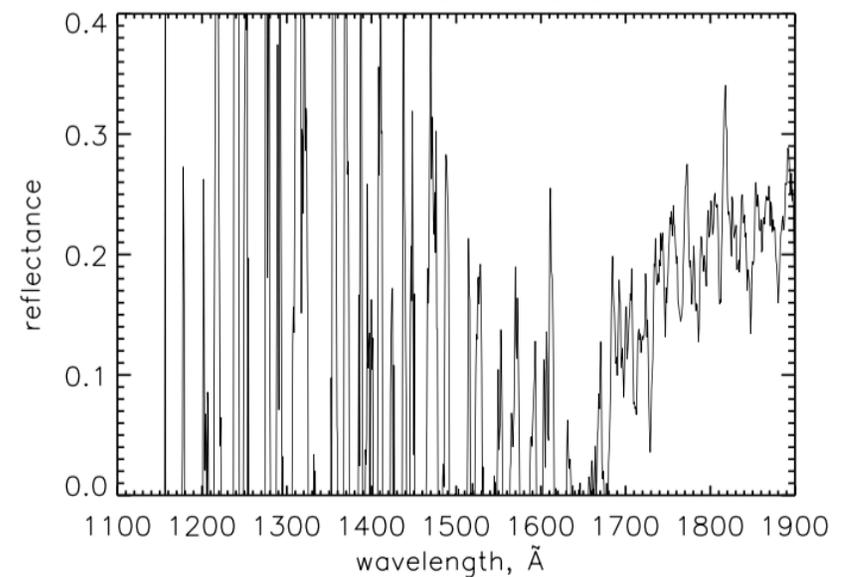
Phase= 28.5°



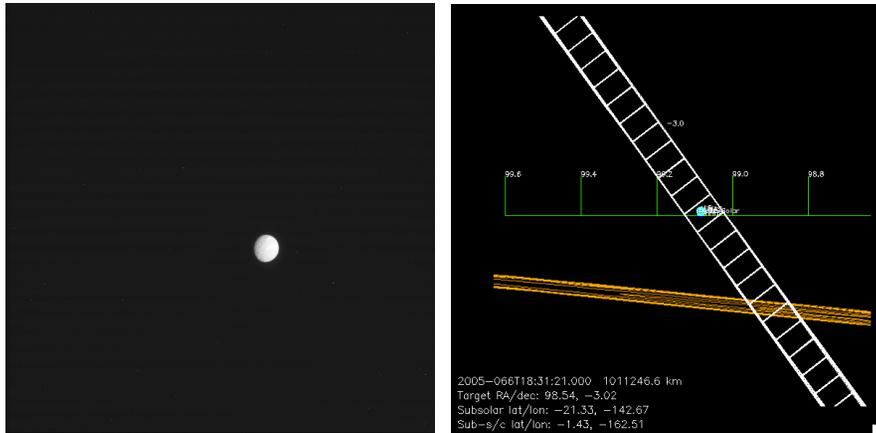
004MI ICYLON005



004MI_ICYLON005



Rev 4 MIMAS 166W030PH001



004MI_ICYLON006_ISS

2005-066T18:32

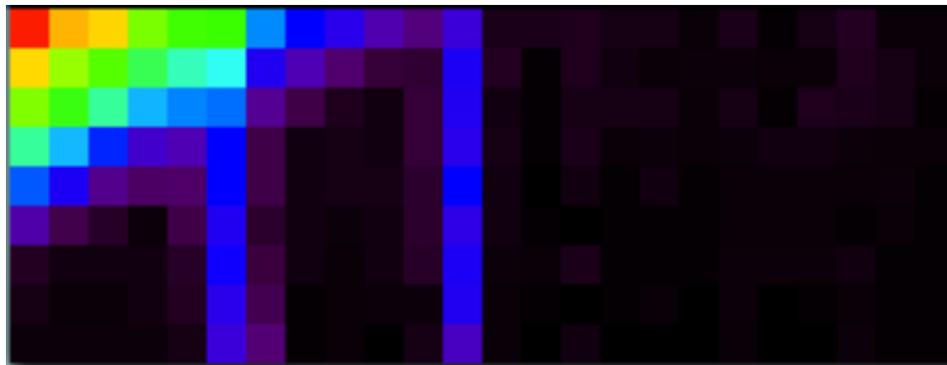
Alt= 1,006,359 km

Longitude= 165°W

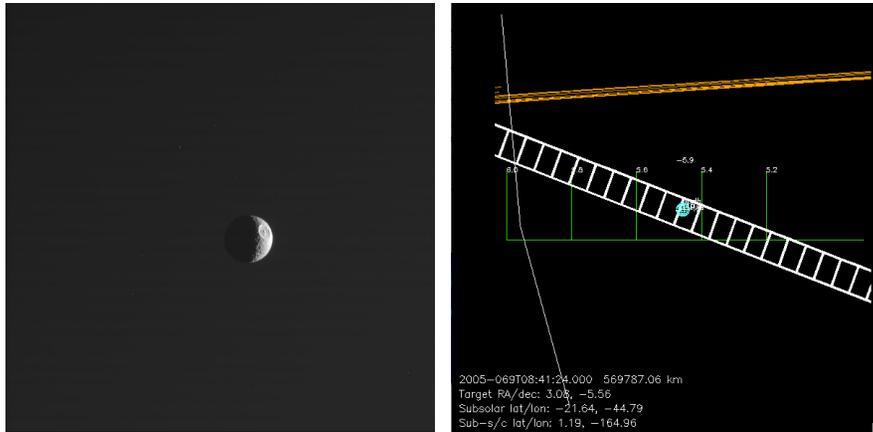
Latitude=1.4°S

Phase= 30.4°

The rings and Saturn are in the slit with Mimas



Rev 4 MIMAS 166W113PH001



004MI_ICYLON007_ISS

2005-069T08:42

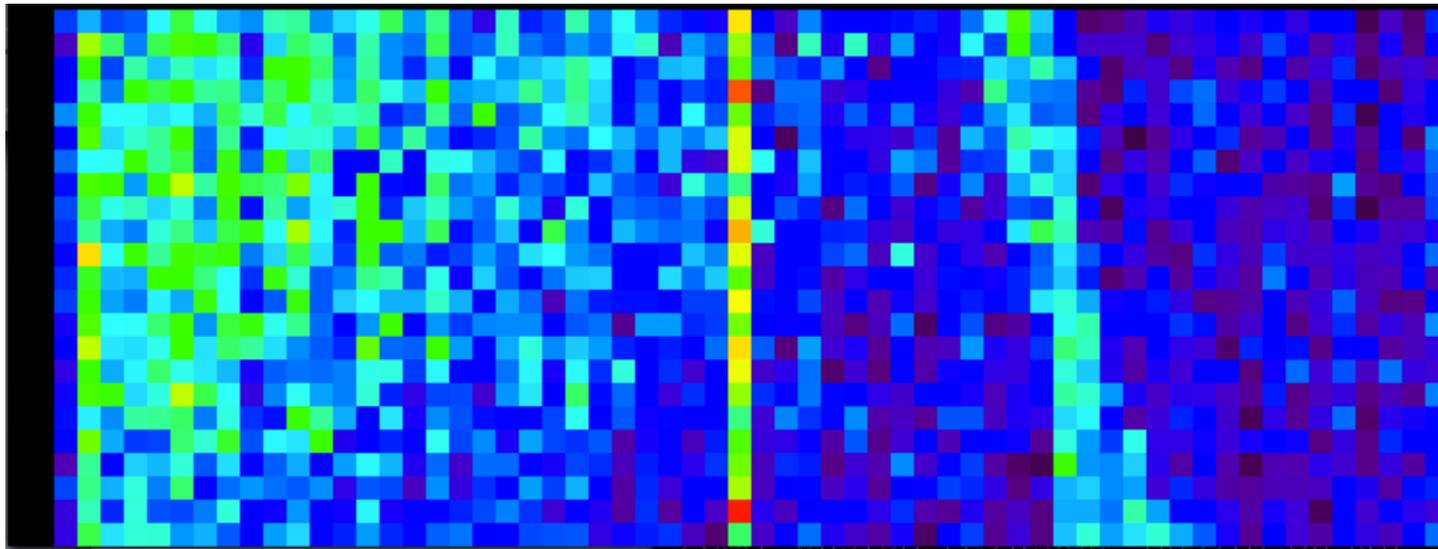
Alt= 575,139 km

Longitude= 171°W

Latitude=1.1°N

Phase= 114°

(Mimas in front of Saturn's night side)



Rev 4 MIMAS 166W089PH001

004MI_ICYLON008_ISS

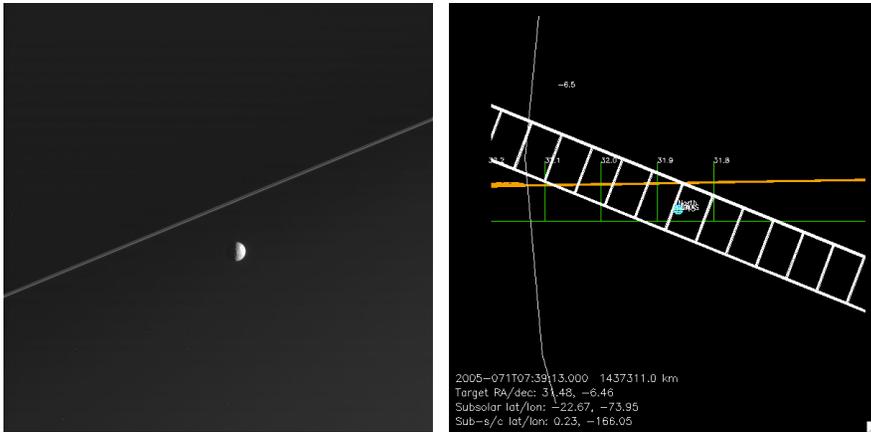
2005-071T07:40

Alt= 1,437,257 km

Longitude= 168°W

Latitude=0.2°N

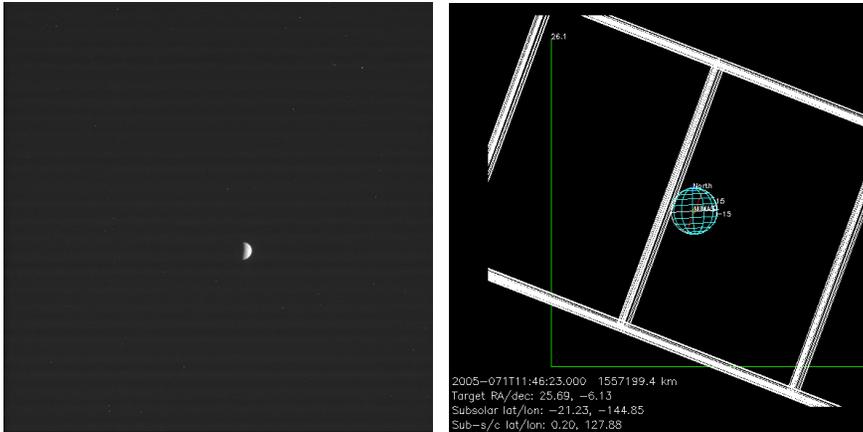
Phase= 88.9°



(Mimas in front of Saturn's night side)



Rev 4 MIMAS 238W094PH001



004MI_ICYLON009_ISS

2005-071T11:47

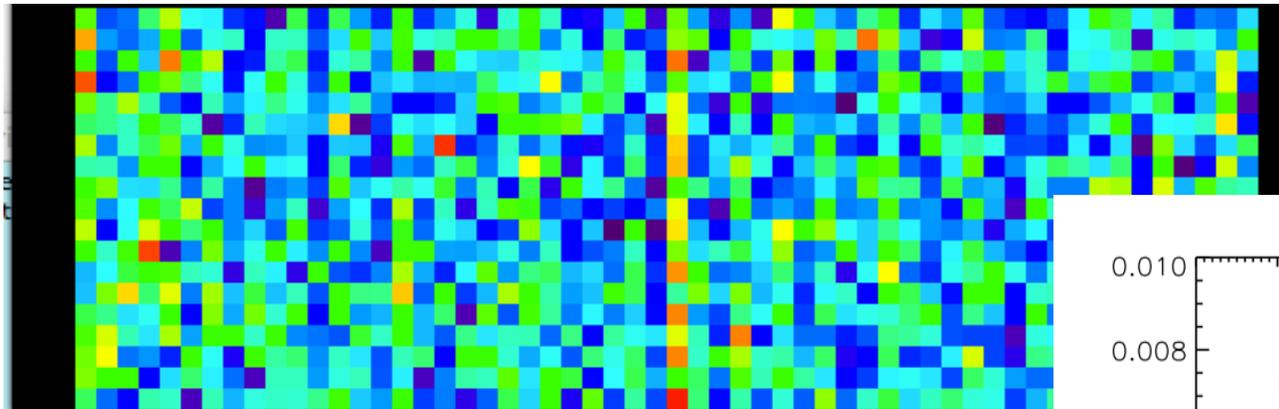
Alt= 1,573,698 km

Longitude= 237°W

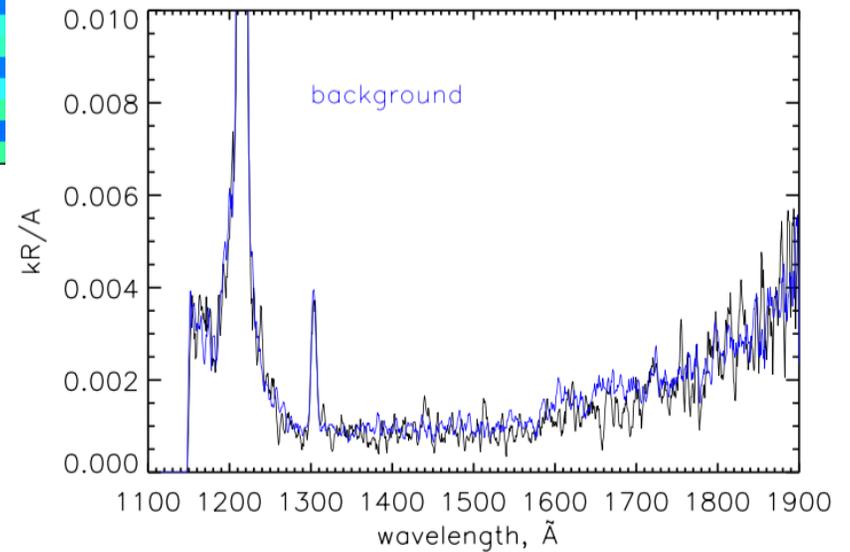
Latitude=0.2°N

Phase= 94.2°

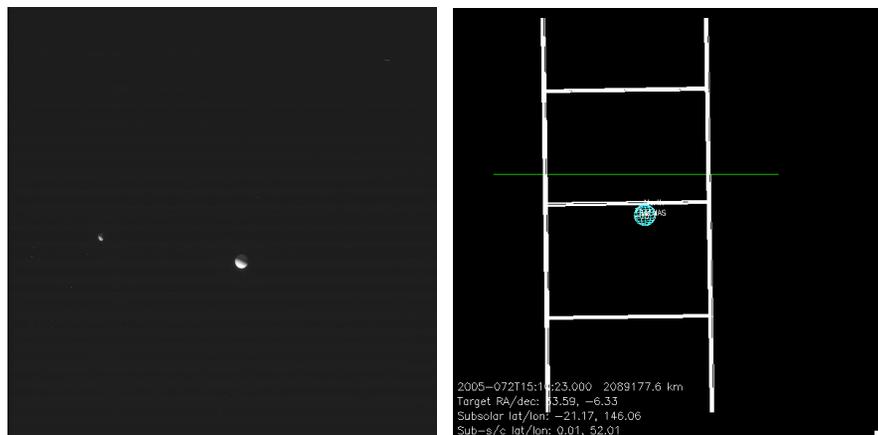
Low SNR



004MI ICYLON009



Rev 4 MIMAS 310W087PH001



004MI_ICYLON010_ISS

2005-072T15:11

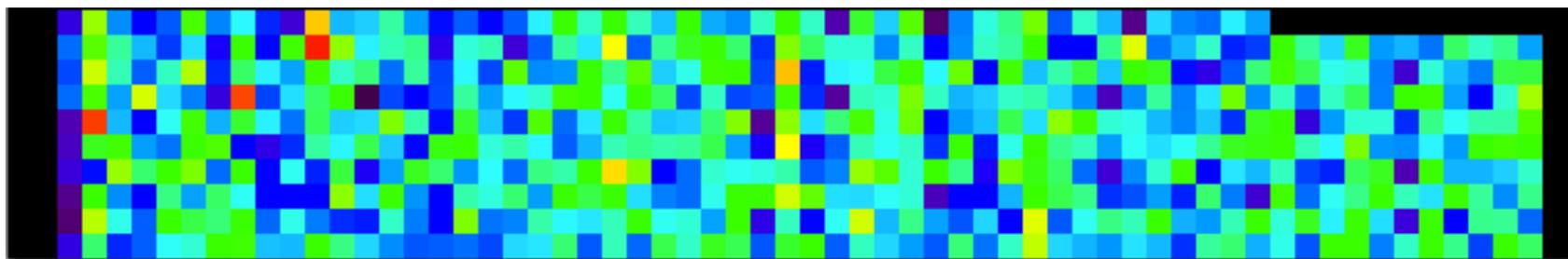
Alt= 2,096,850 km

Longitude= 310.3°W

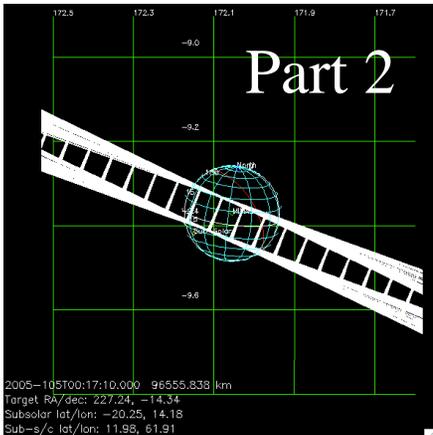
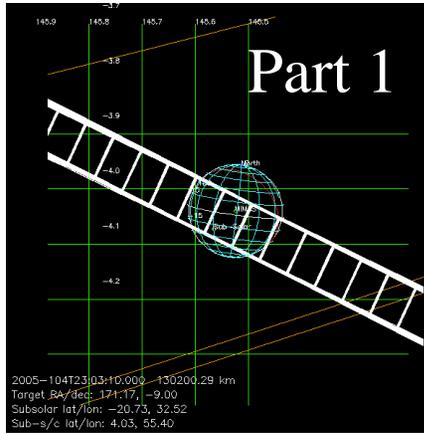
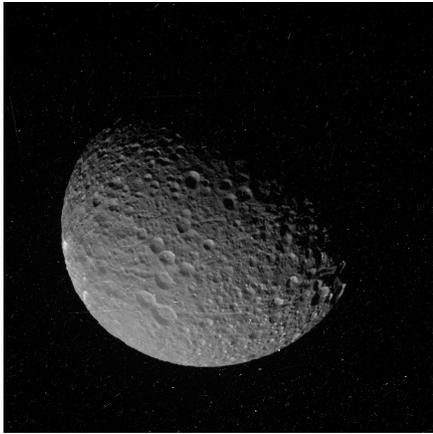
Latitude=0°N

Phase= 87.2°

Low SNR



006MI_MIMAS001_VIMS



006MI_ICYLON020_VIMS

2005-104T23:04

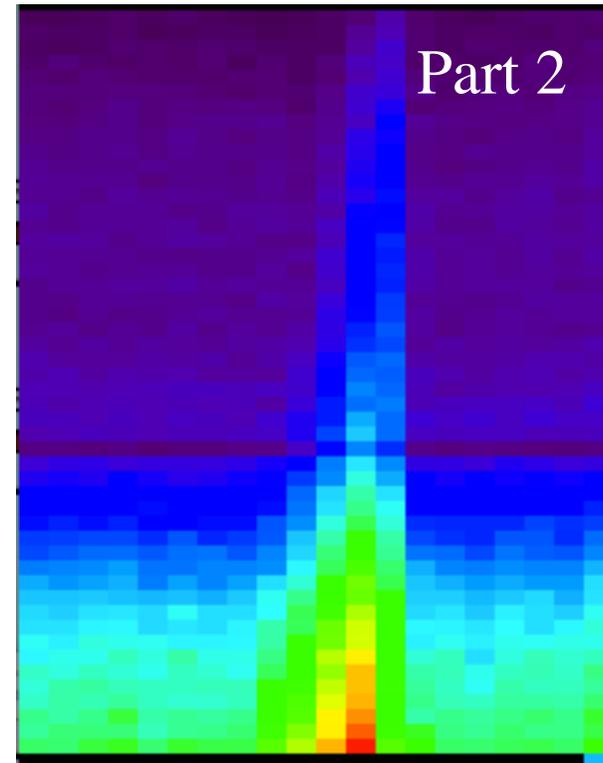
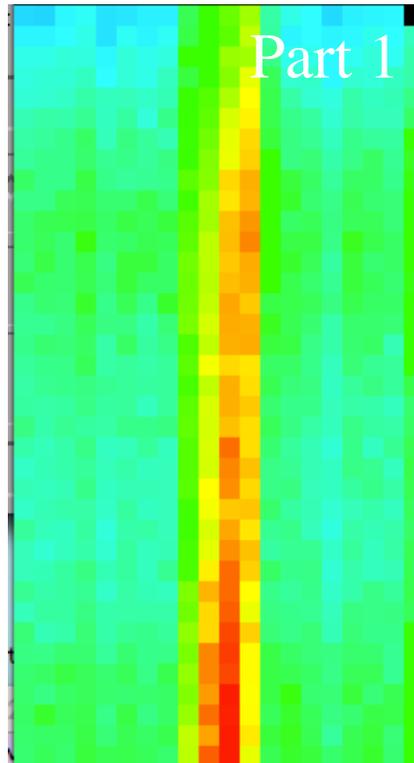
Alt= 112,847 km

Longitude= 302°W

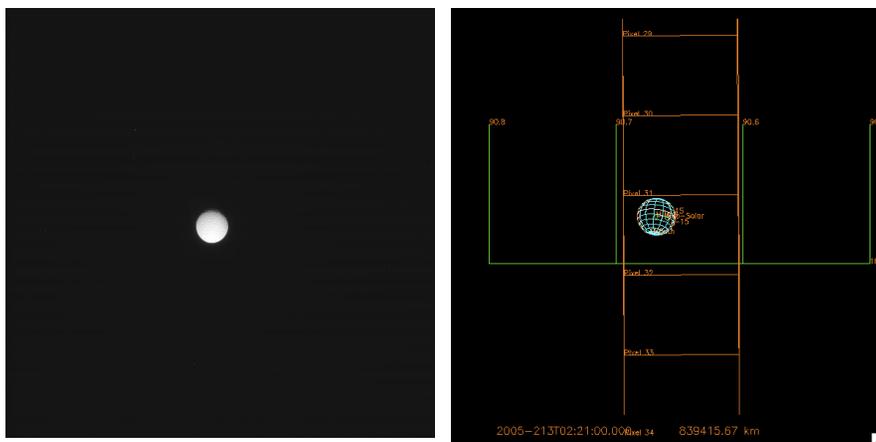
Latitude=7.6°N

Phase= 46°

Mimas in front of rings for Part 1, some of Part 2



012MI_PHOTOM004_ISS



012MI_ICYLON002_ISS

2005-213T02:22

Alt= 840,284 km

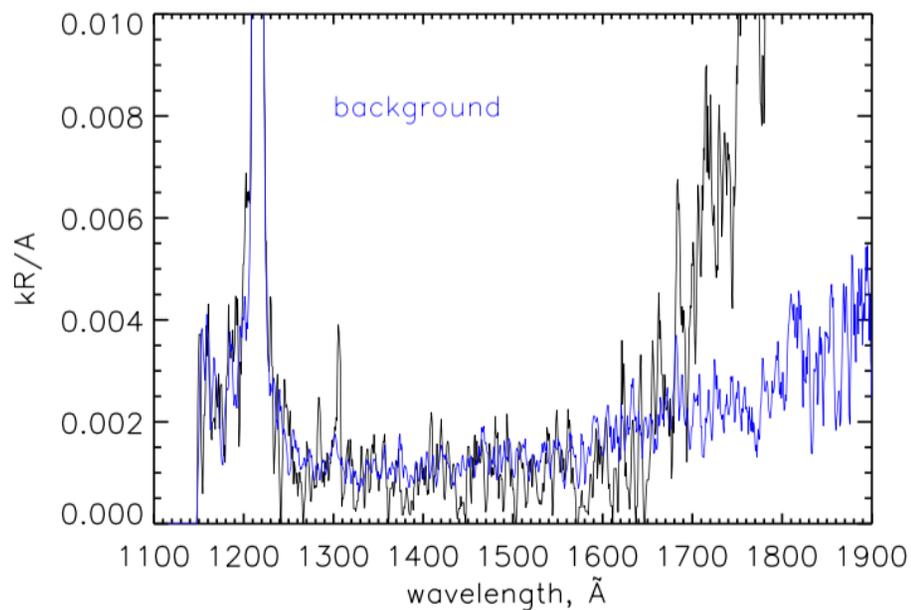
Longitude= 260°W

Latitude=21°S

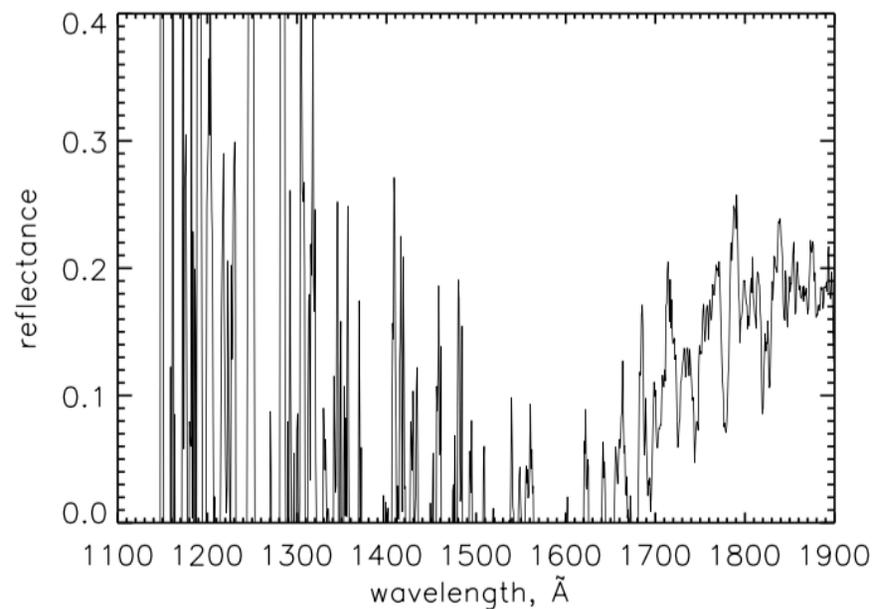
Phase= 30.9°



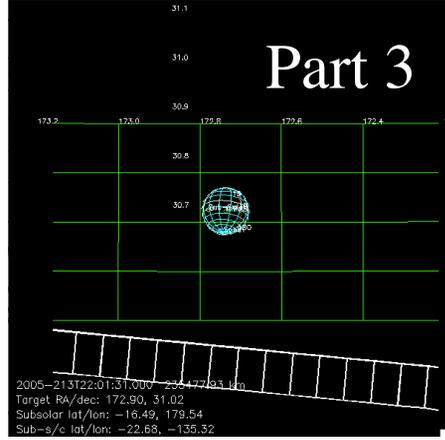
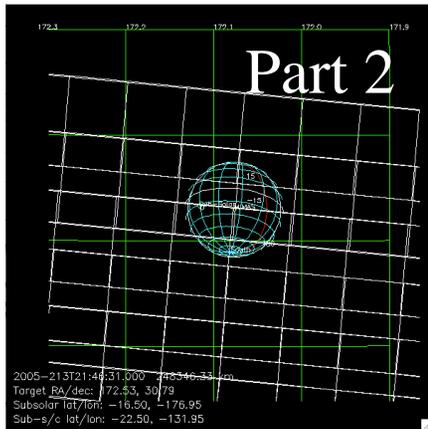
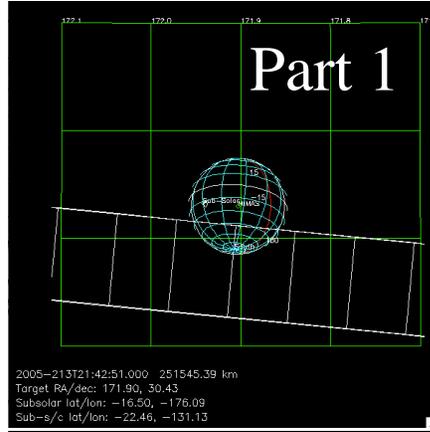
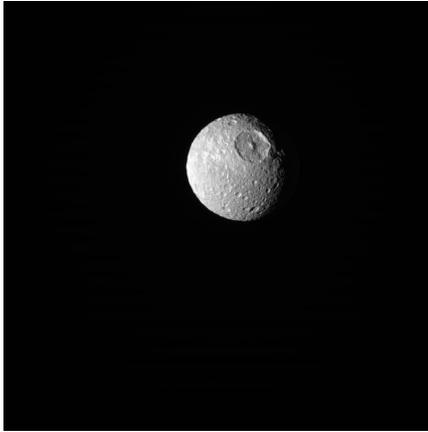
012MI ICYLON002



012MI_ICYLON002



012MI_FP1FP3MAP666



012MI_ICYLON001_CIRS

2005-213T21:43

Alt= 251,346

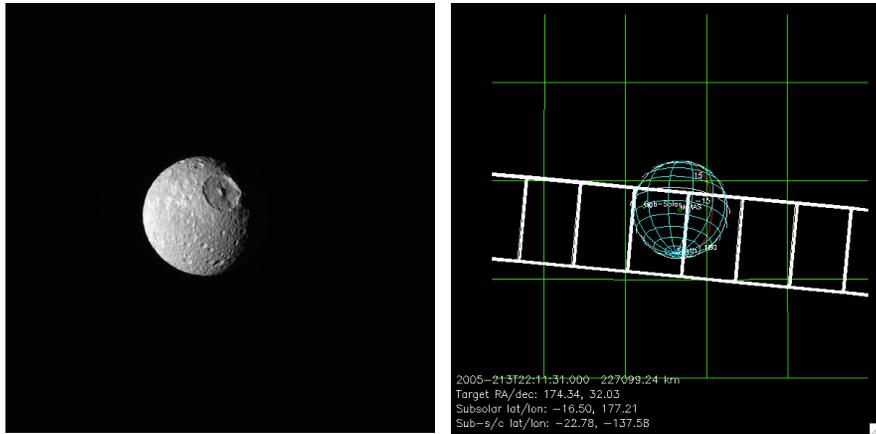
Longitude= 131°W

Latitude=22.5°S

Phase= 44.5°



012MI_MIMAS005_VIMS



012MI_ICYLON002_VIMS

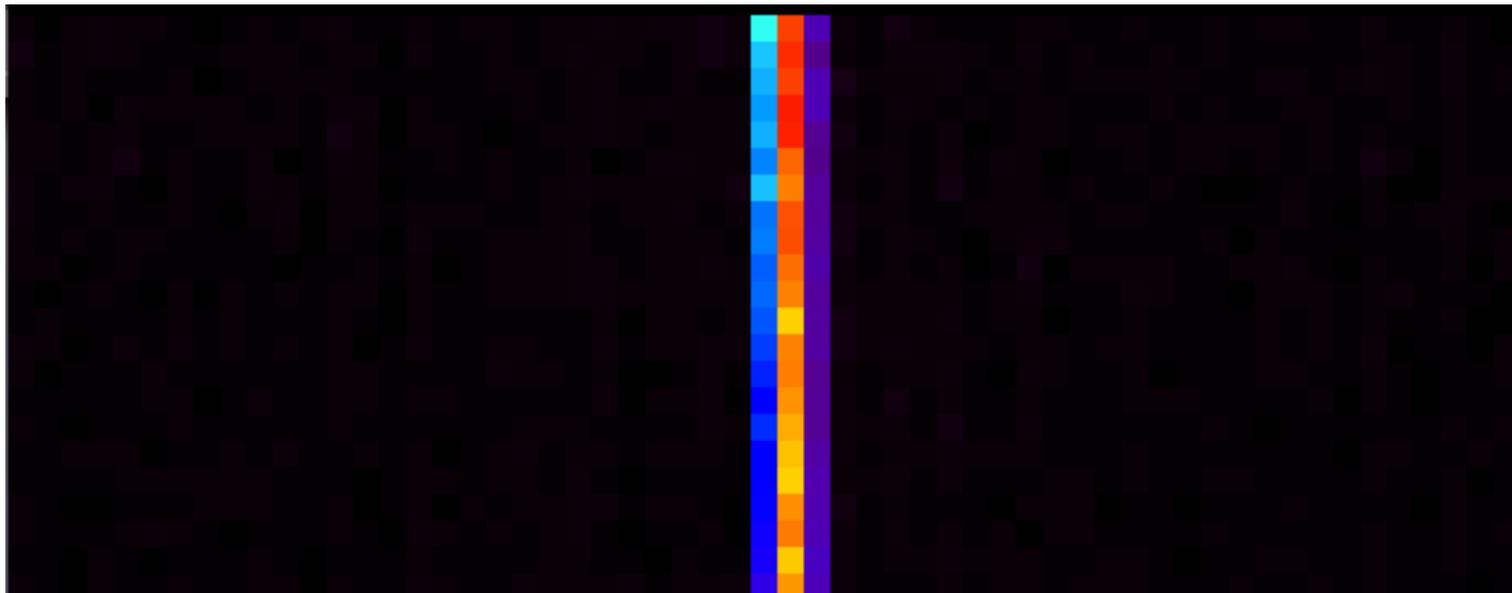
2005-213T22:12

Alt= 209,984 km

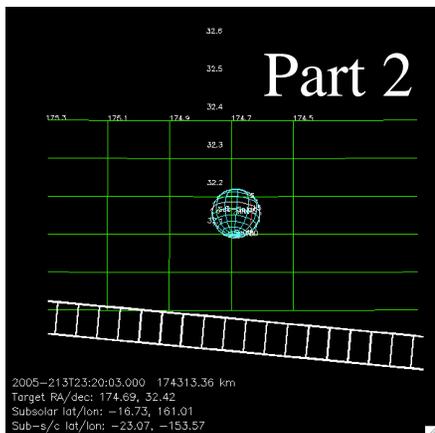
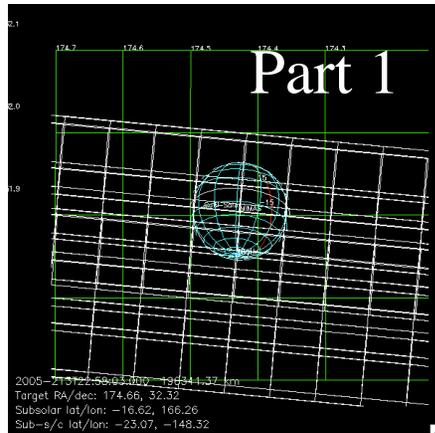
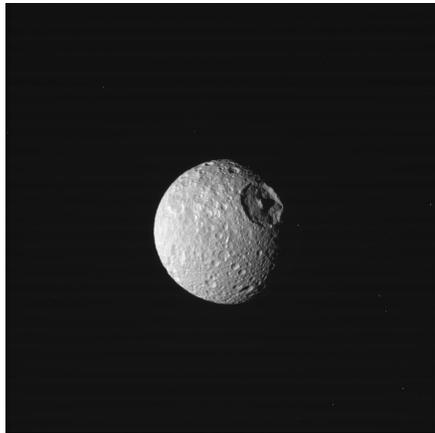
Longitude= 142°W

Latitude=22.9°S

Phase= 46.2°



012MI_FP3REGION022



012MI_ICYLON003_CIRS

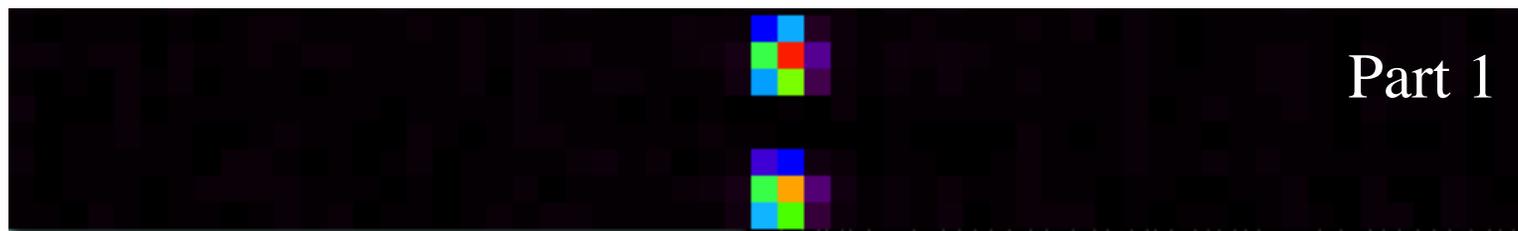
2005-213T22:59

Alt= 183,504 km

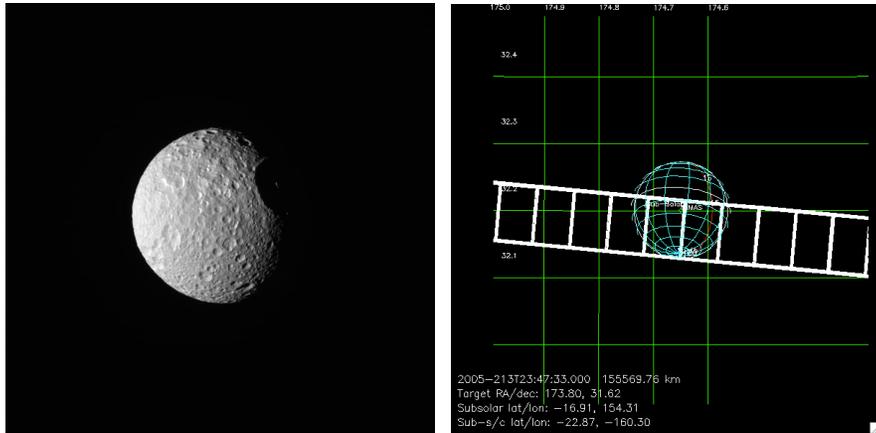
Longitude= 150°W

Latitude=23.1°S

Phase= 46.9°



012MI_MIMAS006_VIMS



012MI_ICYLON004_VIMS

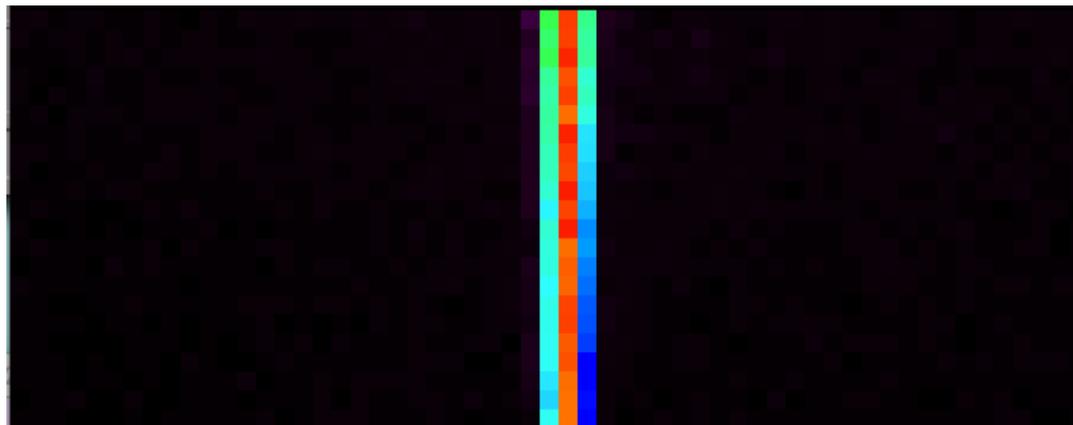
2005-213T23:48

Alt= 142,218 km

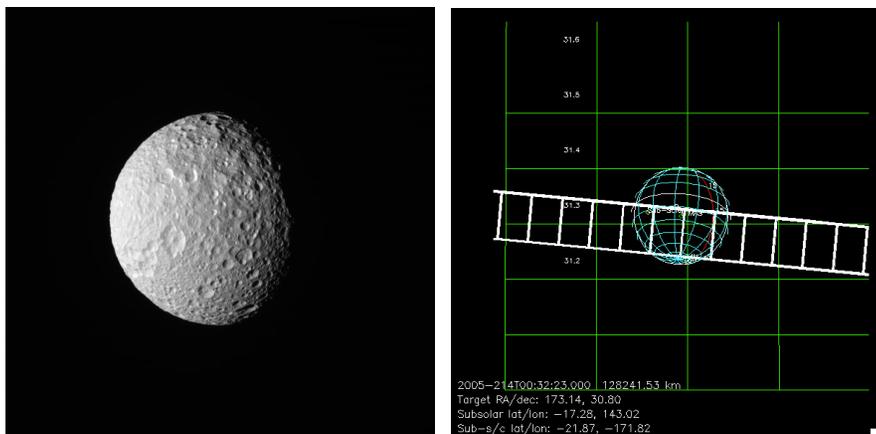
Longitude= 166°W

Latitude=22.5°S

Phase= 46.7°



012MI_LIMBTOP001_ISS



012MI_ICYLON005_ISS

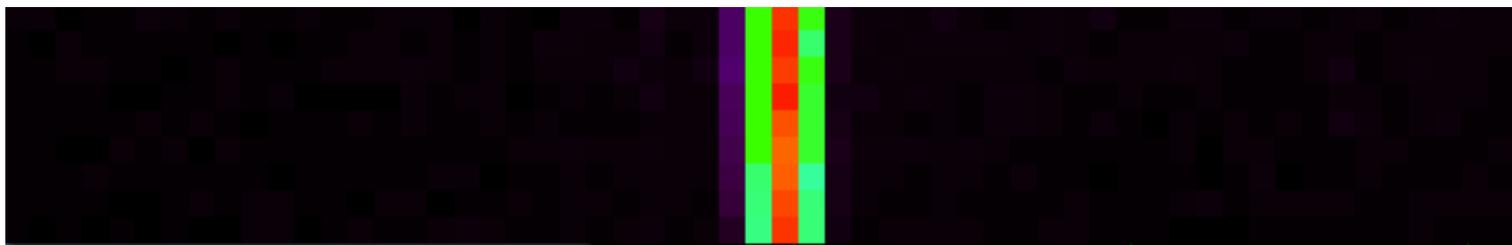
2005-214T00:33

Alt= 123,625 km

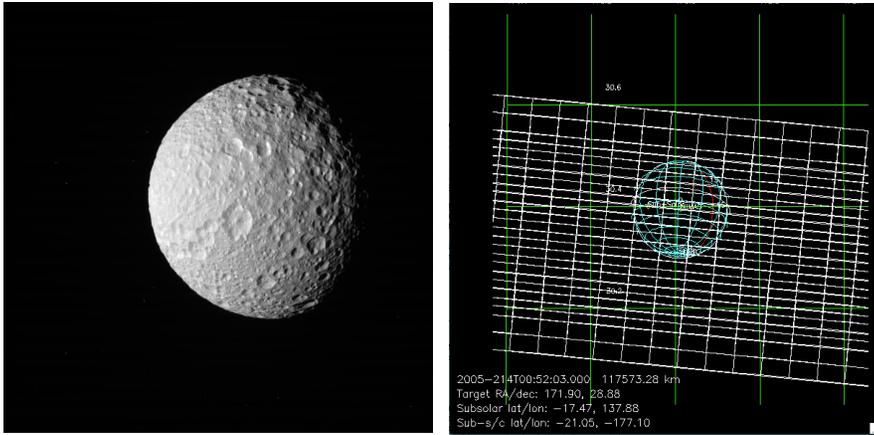
Longitude= 174°W

Latitude=21.6°S

Phase= 45.9°



012MI_FP3REGION020



012MI_ICYLON006_CIRS

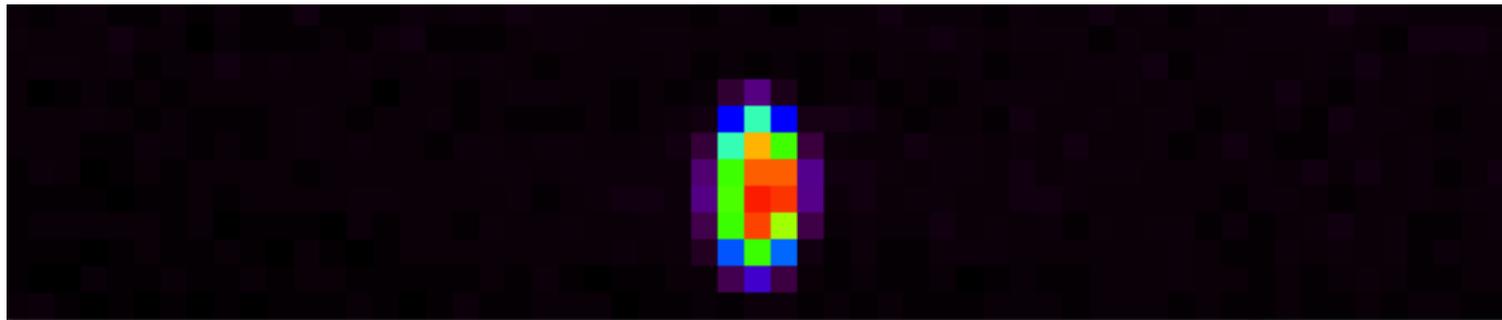
2005-214T00:53

Alt= 111,329 km

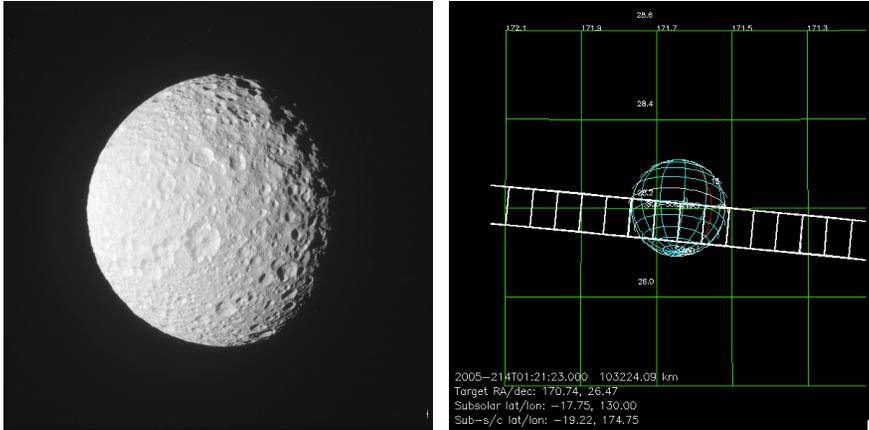
Longitude= 180°W

Latitude=20.3°S

Phase= 45°



012MI_COLORF004_ISS



012MI_ICYLON007_ISS

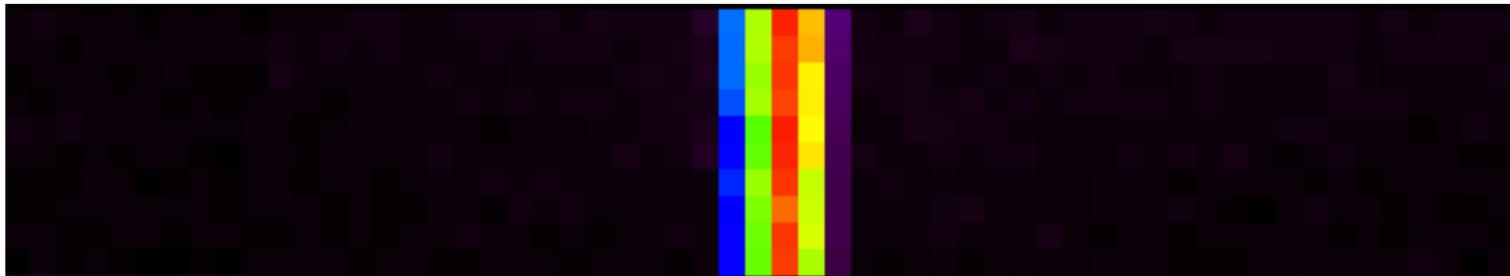
2005-214T01:22

Alt= 99,039 km

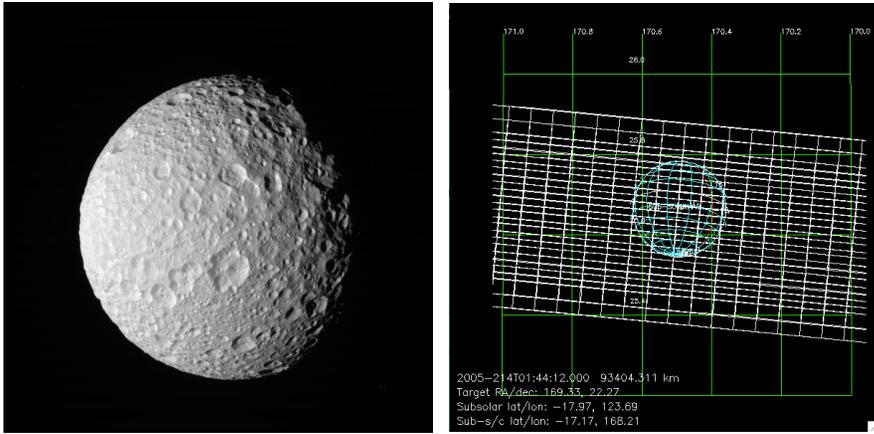
Longitude= 188°W

Latitude=18.5°S

Phase= 44°



012MI_FP3REGION024_CIRS



012MI_ICYLON071_CIRS

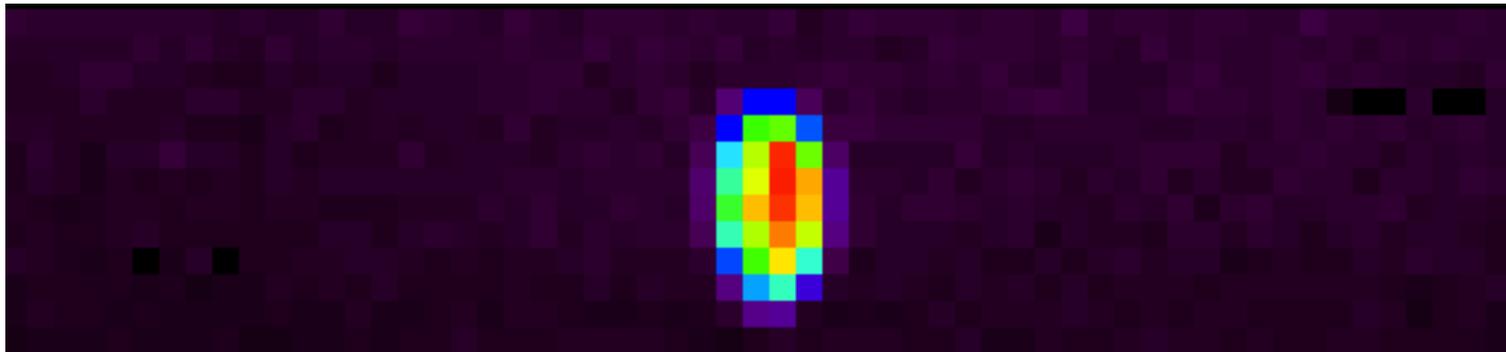
2005-214T01:45

Alt= 88,589 km

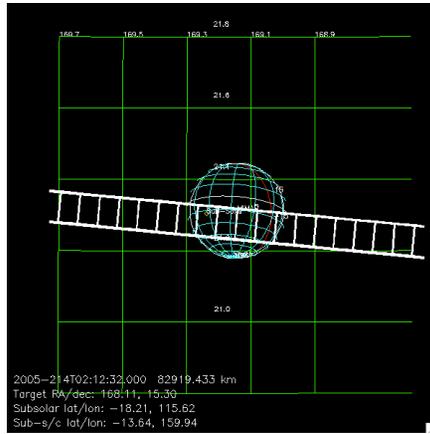
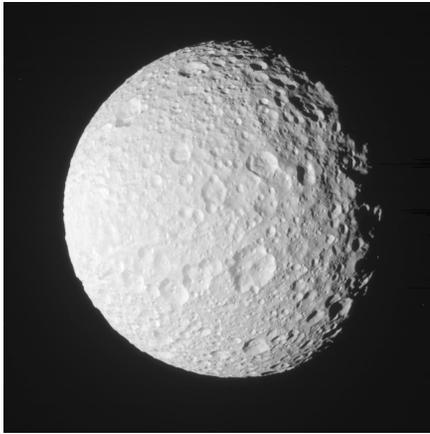
Longitude= 195°W

Latitude=15.8°S

Phase= 43°



012MI_MIMAS001_VIMS



012MI_ICYLON072_VIMS

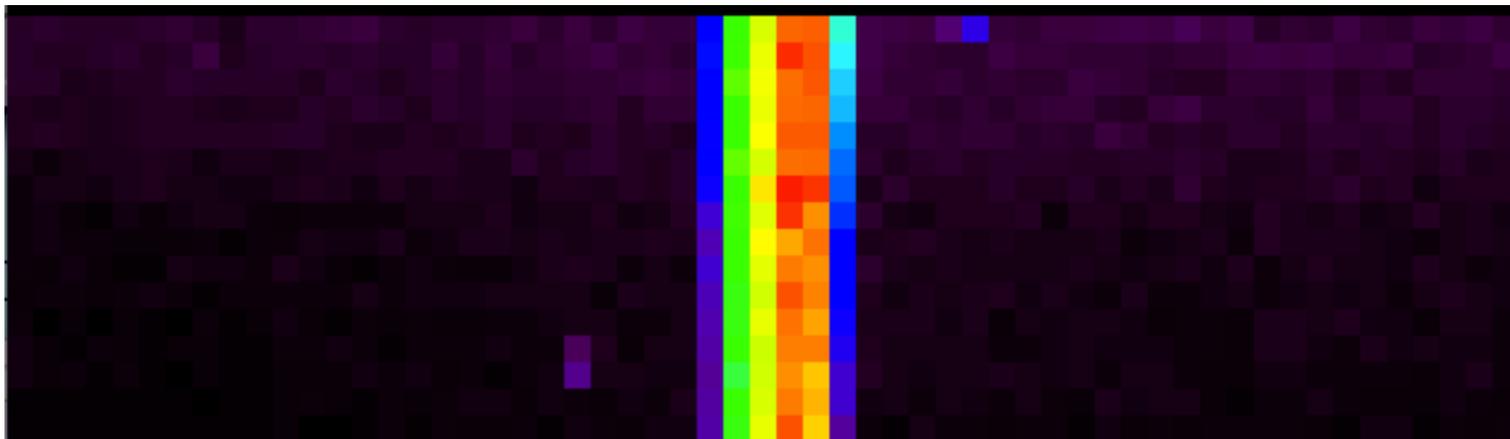
2005-214T02:13

Alt= 78,069 km

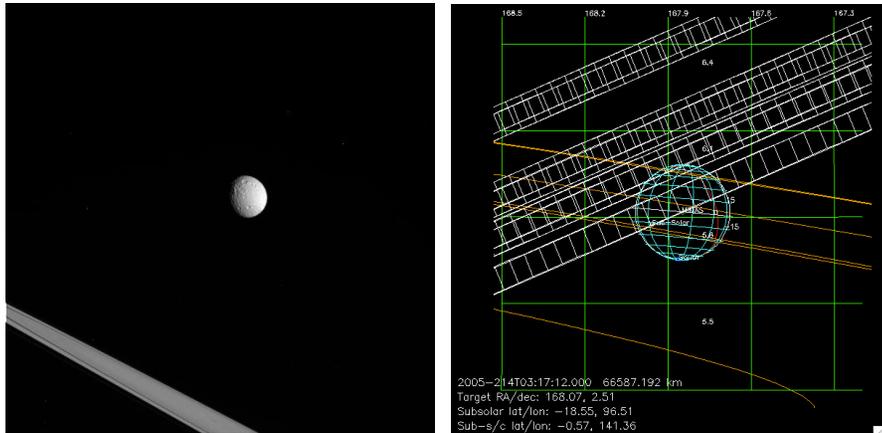
Longitude= 205°W

Latitude=11.2°S

Phase= 42.5°



012MI_FP1MAP023_CIRS



WAC image

012MI_ICYLON073_CIRS

2005-214T03:18

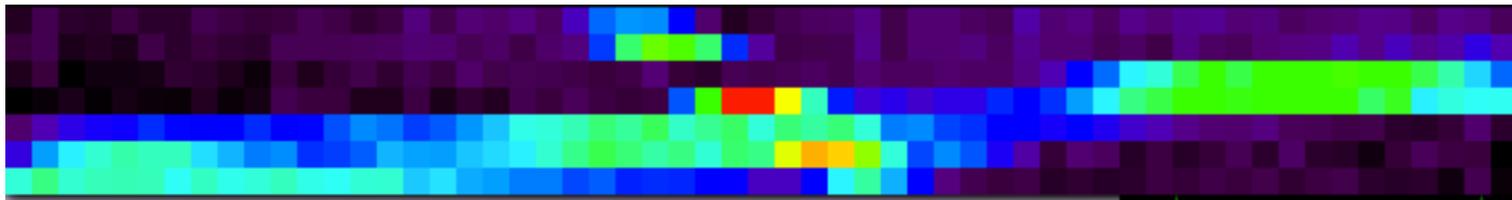
Alt= 65,453 km

Longitude= 220°W

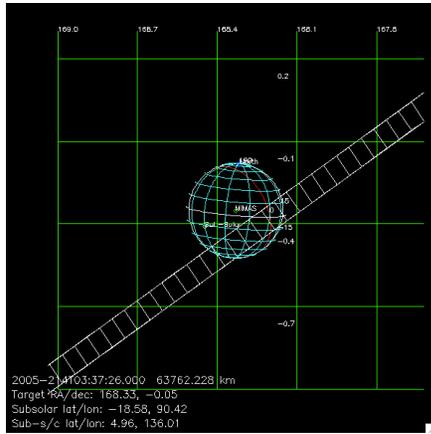
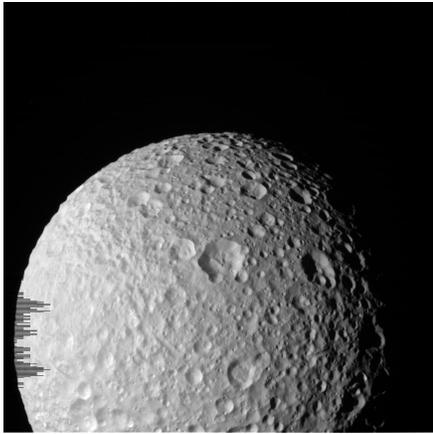
Latitude=1°N

Phase= 46°

Mimas in front of rings for first part of observation



012MI_STEREO005_ISS



012MI_ICYLON074_ISS

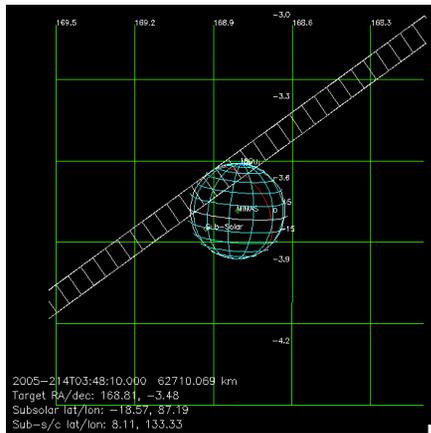
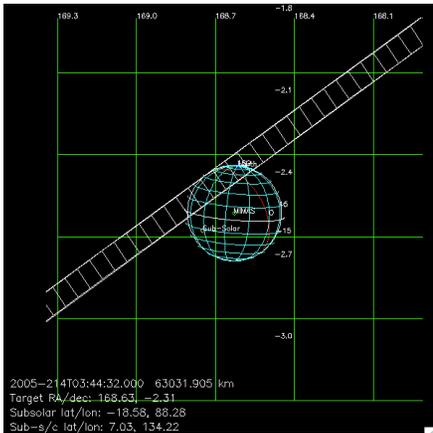
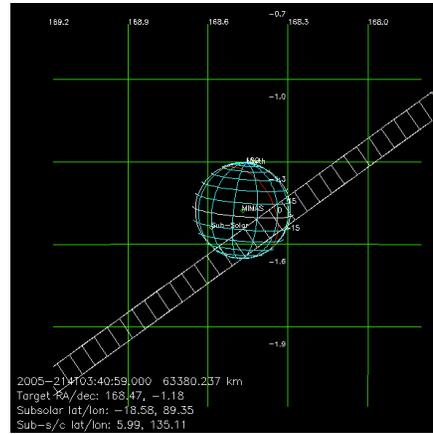
2005-214T03:38

Alt= 63,560 km

Longitude= 224°W

Latitude=5°N

Phase= 48.3°



012MI_ICYLON008_PRIME

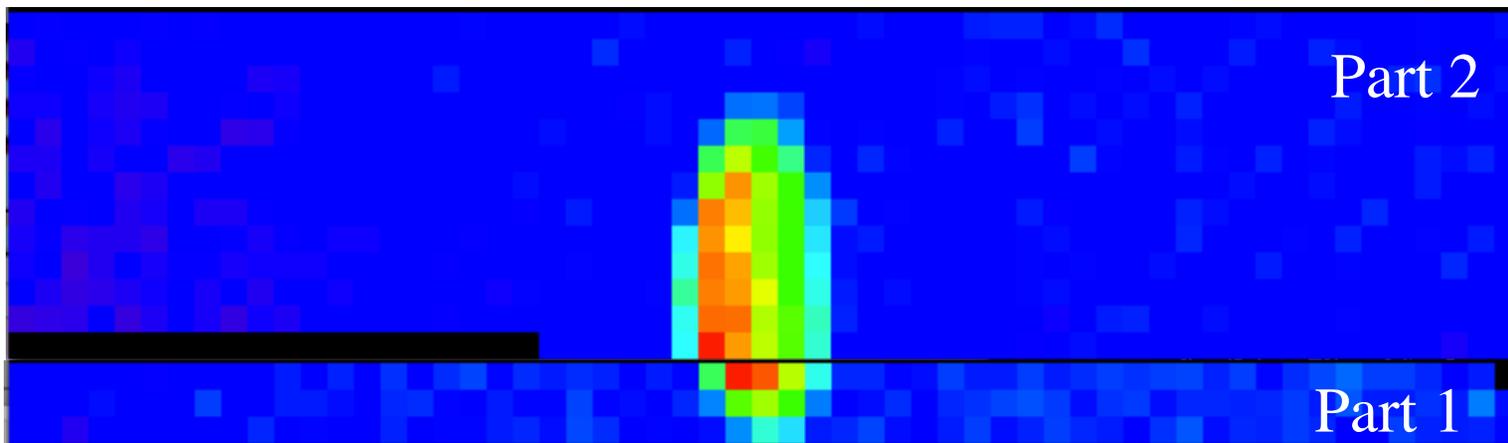
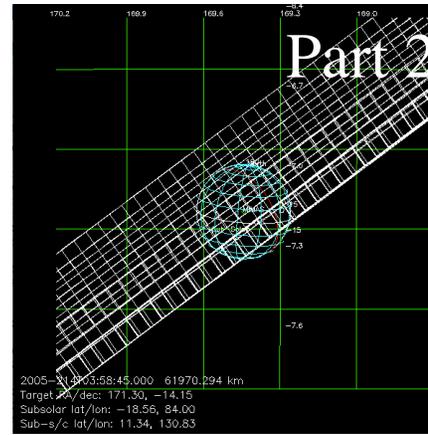
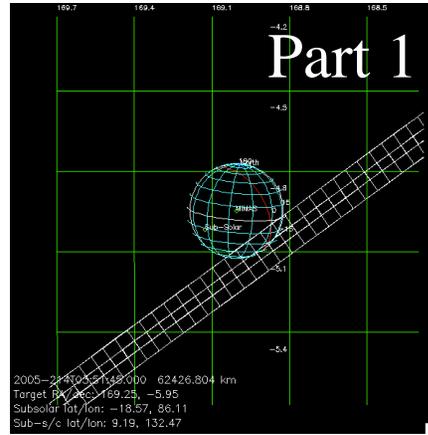
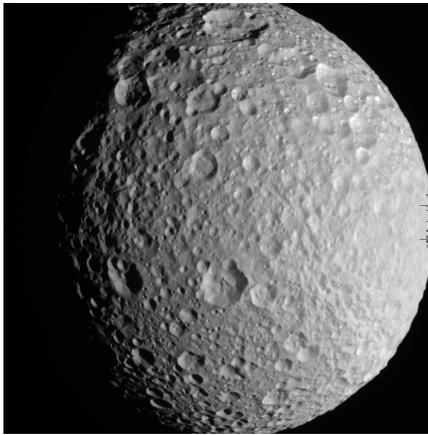
2005-214T03:52

Alt= 62,086 km

Longitude= 228°W

Latitude=9.8°N

Phase= 52°



ISS_012MI_STEREO007 (12-panel mosaic)

012MI_ICYLON009_ISS

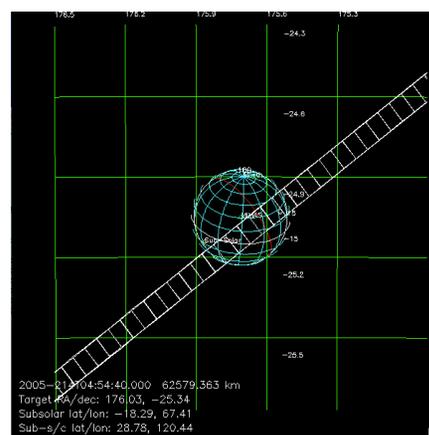
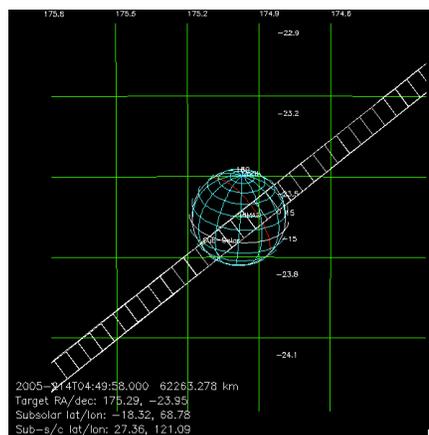
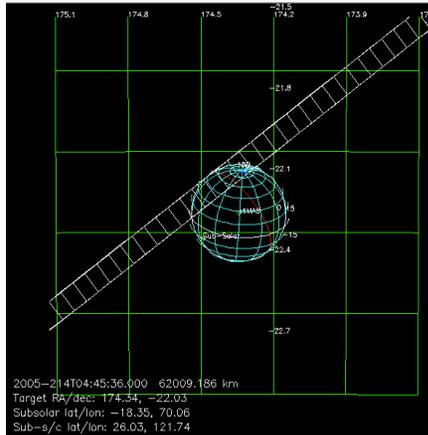
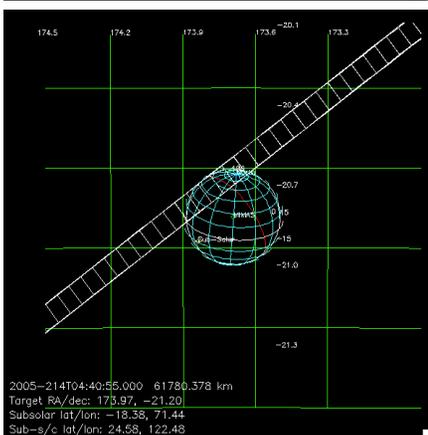
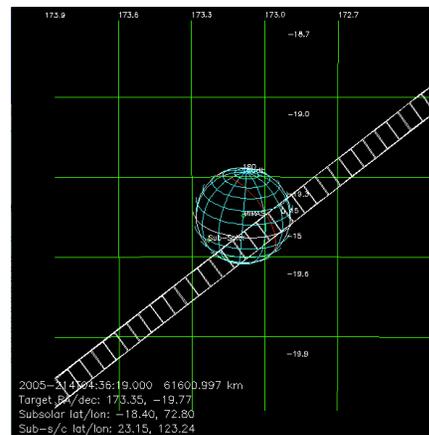
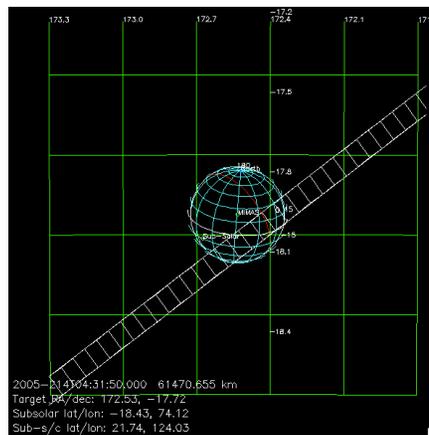
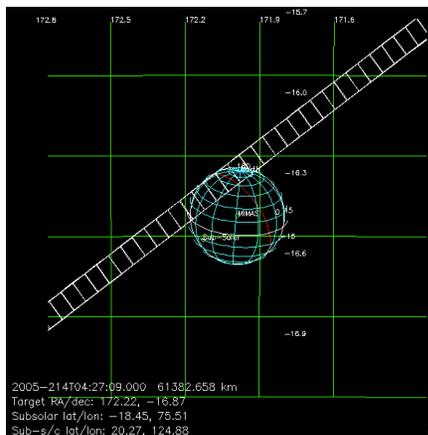
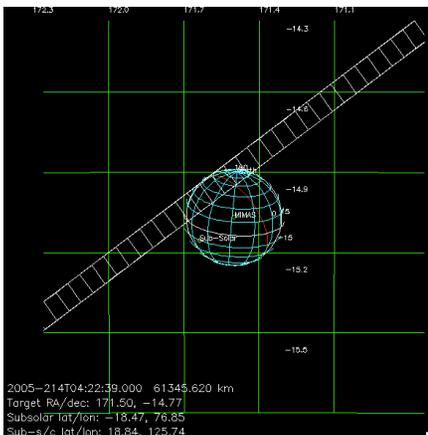
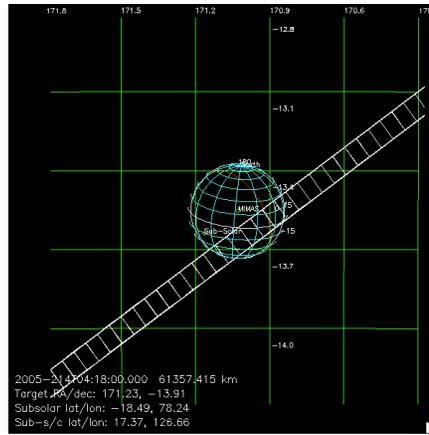
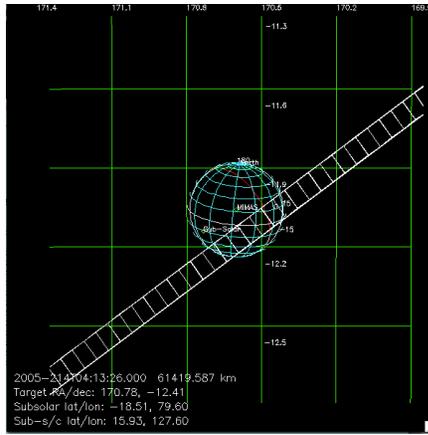
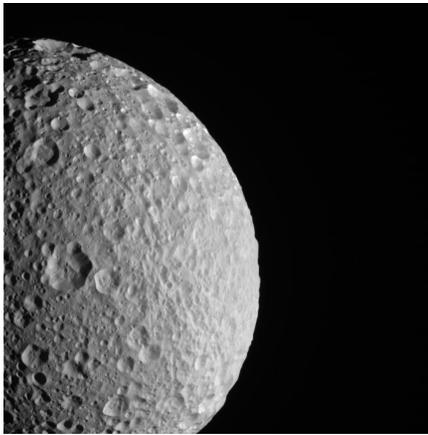
2005-214T04:14

Alt= 61,203 km

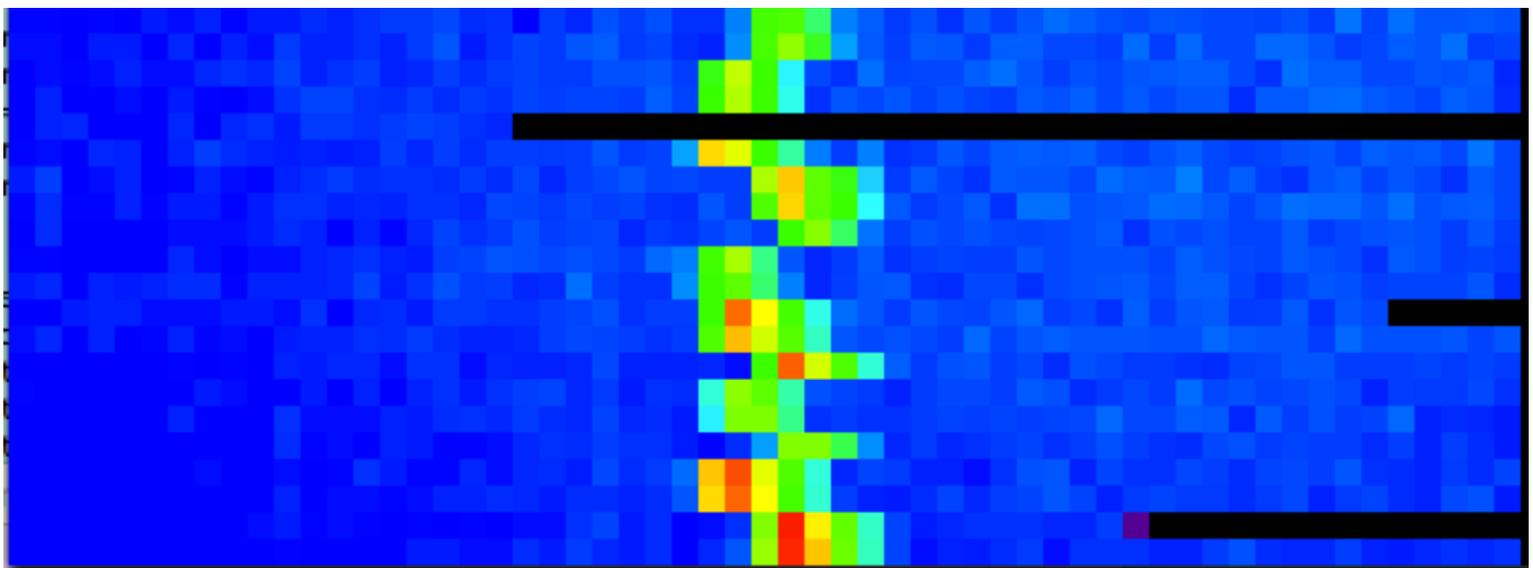
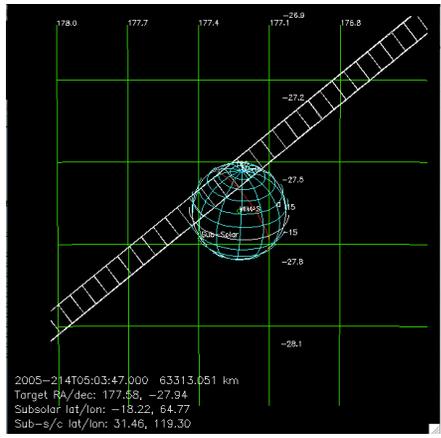
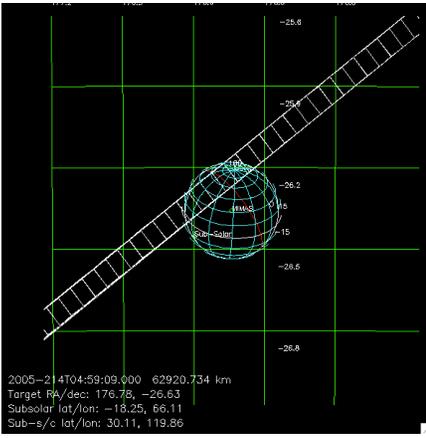
Longitude= 233°W

Latitude=16°N

Phase= 56.5°

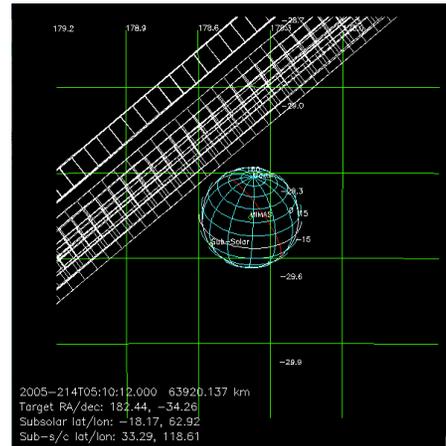
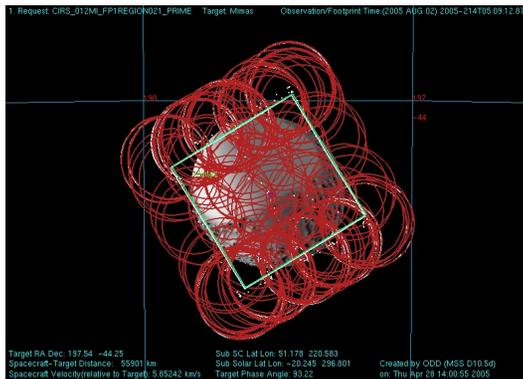


012MI_ICYLON009_ISS Cont'd



CIRS_012MI_FP1REGION021

012MI_ICYLON010_CIRS
2005-214T05:11



Mimas not in UVIS slit

012MI_ICYLON011_PRIME

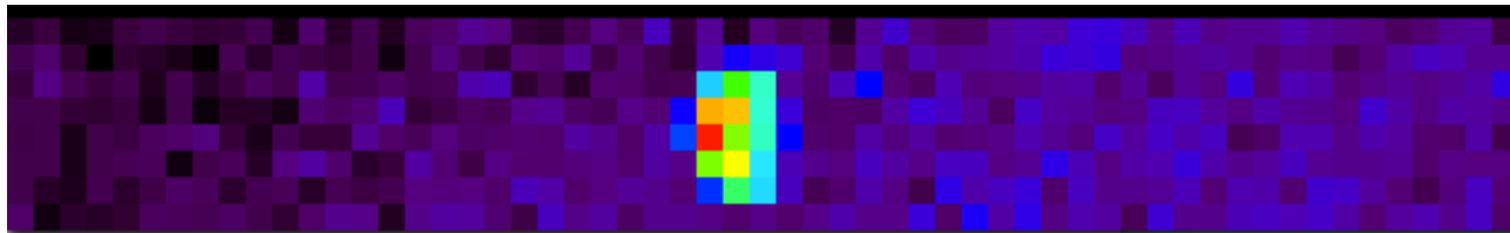
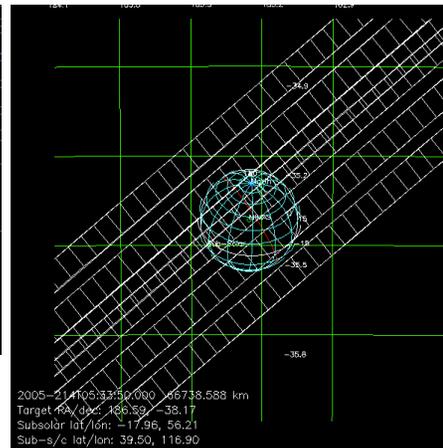
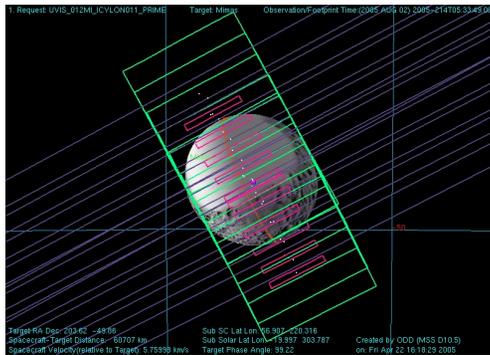
2005-214T05:34

Alt= 67,551 km

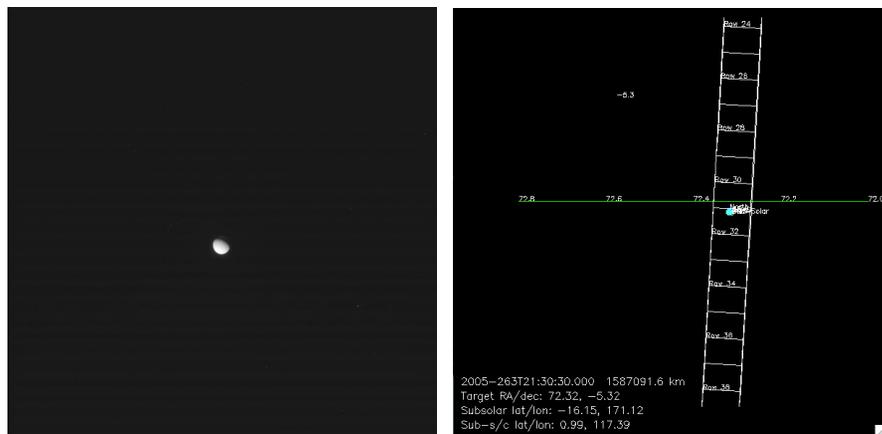
Longitude= 243°W

Latitude=41°N

Phase= 81°



015MI_238W057PH001_ISS



015MI_ICYLON007_ISS

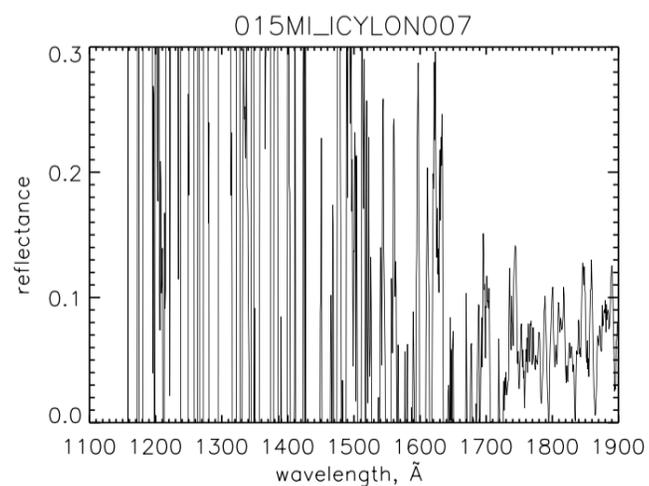
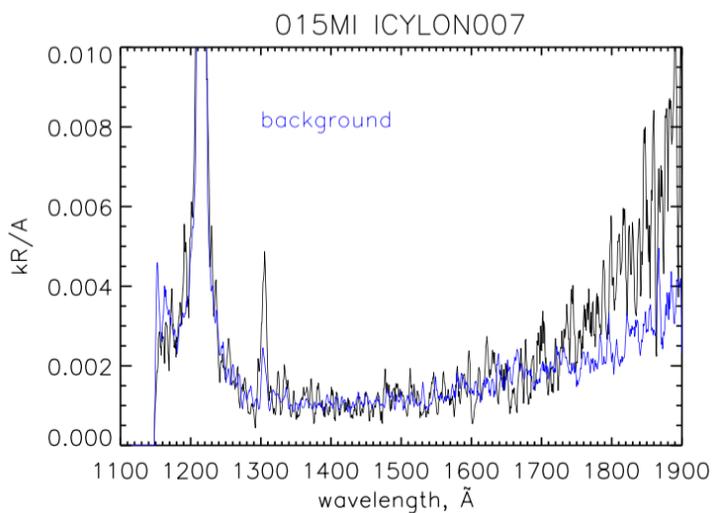
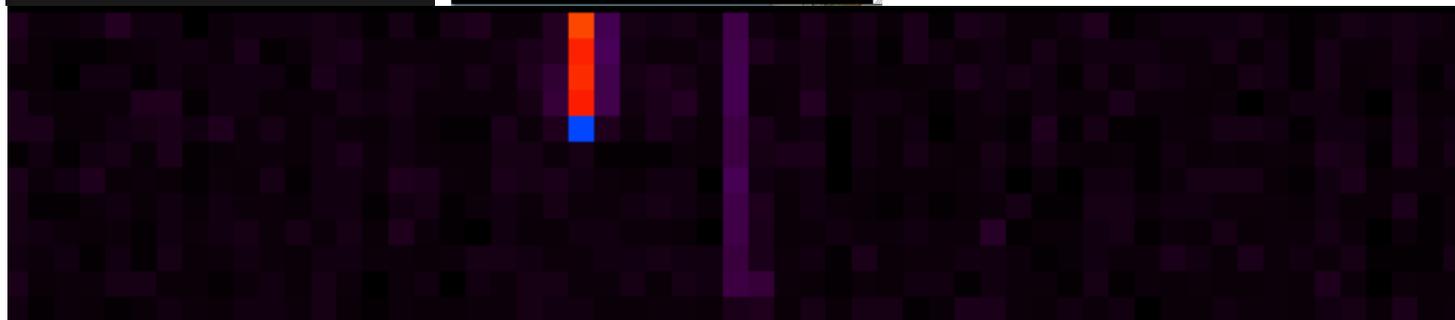
2005-263T21:11

Alt= 1,581,999 km

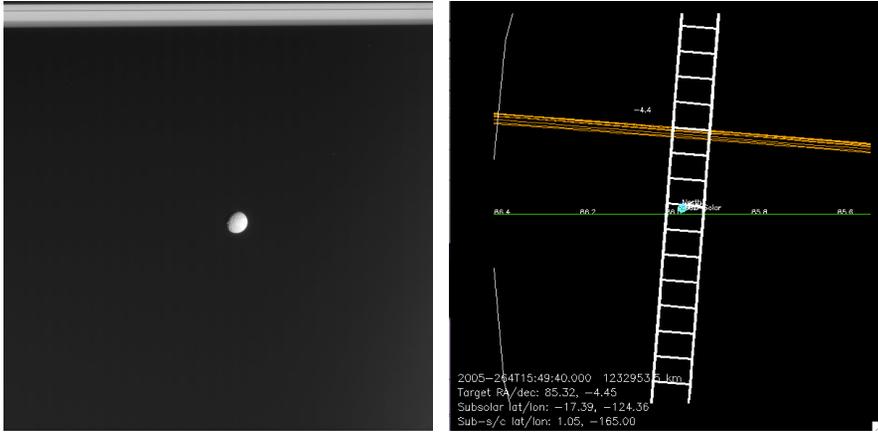
Longitude= 240°W

Latitude=1°N

Phase= 57.9°



015MI_166W045PH001_ISS



015MI_ICYLON015_ISS

2005-264T15:50

Alt= 1,228,039 km

Longitude= 168°W

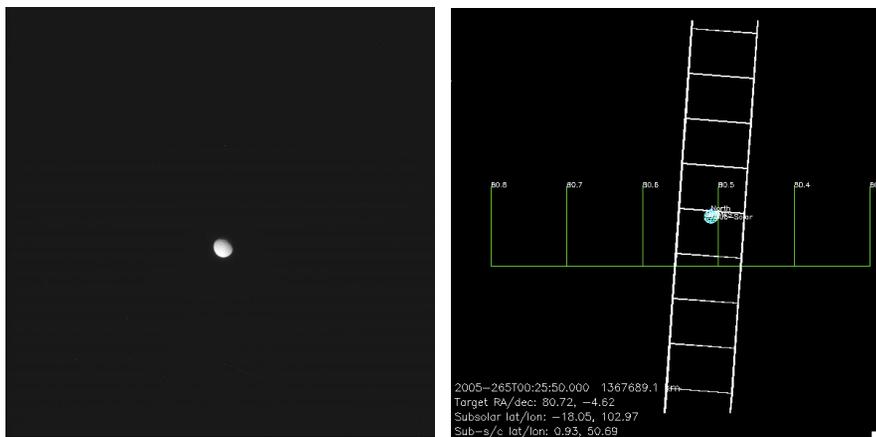
Latitude=1°N

Phase= 46°

Mimas in front of Saturn



015MI_310W050PH001_ISS



015MI_ICYLON017_ISS

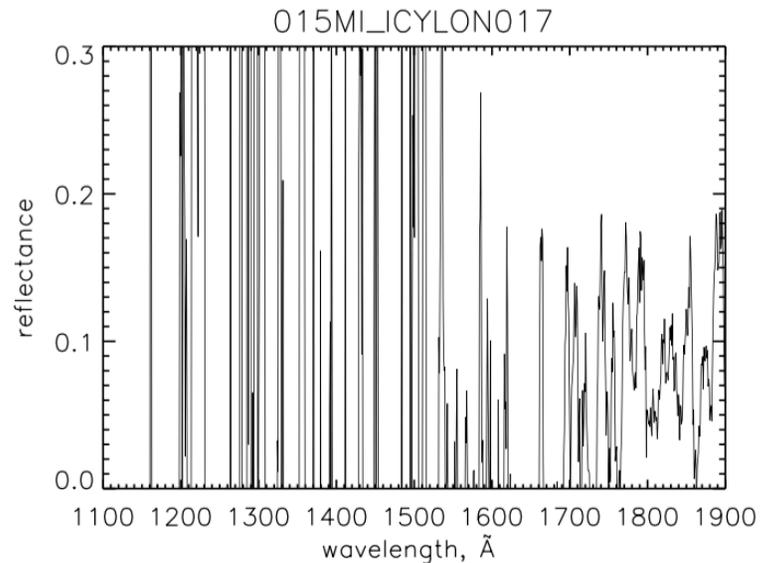
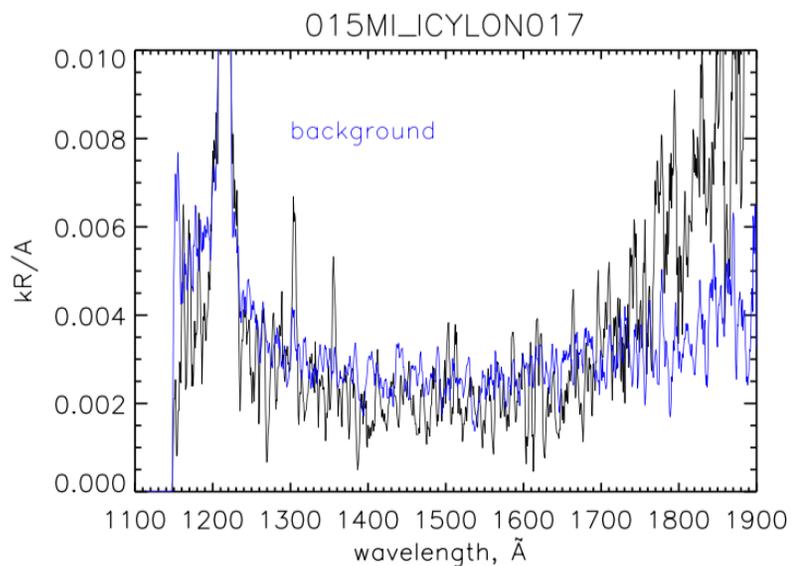
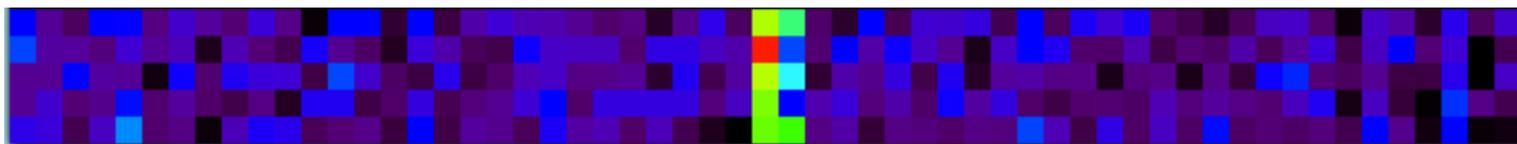
2005-265T00:20

Range= 1,368,974 km

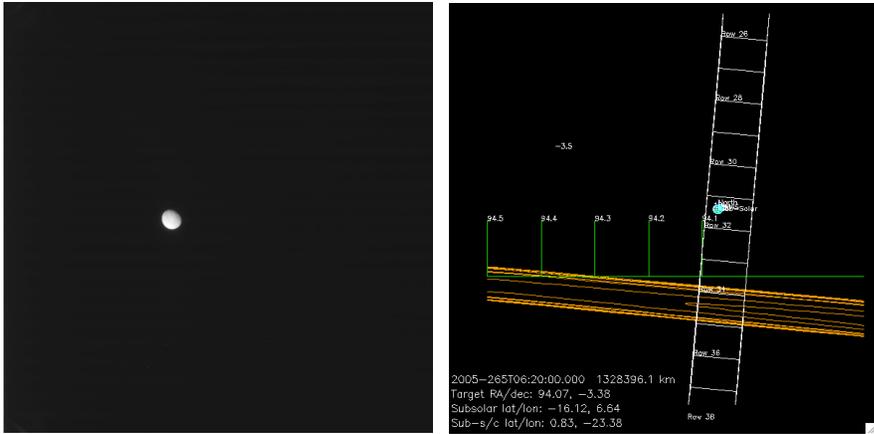
Longitude= 310°W

Latitude=1°N

Phase= 50.4°



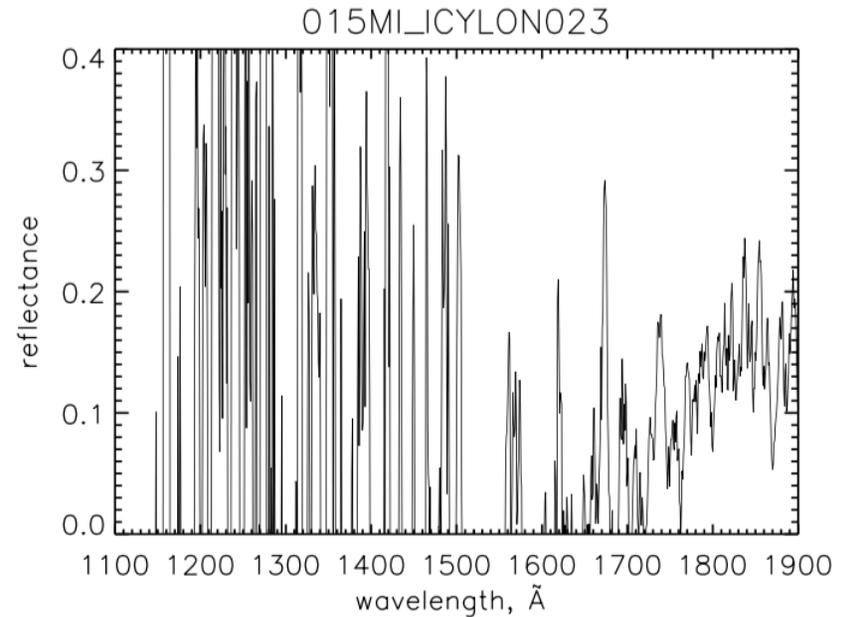
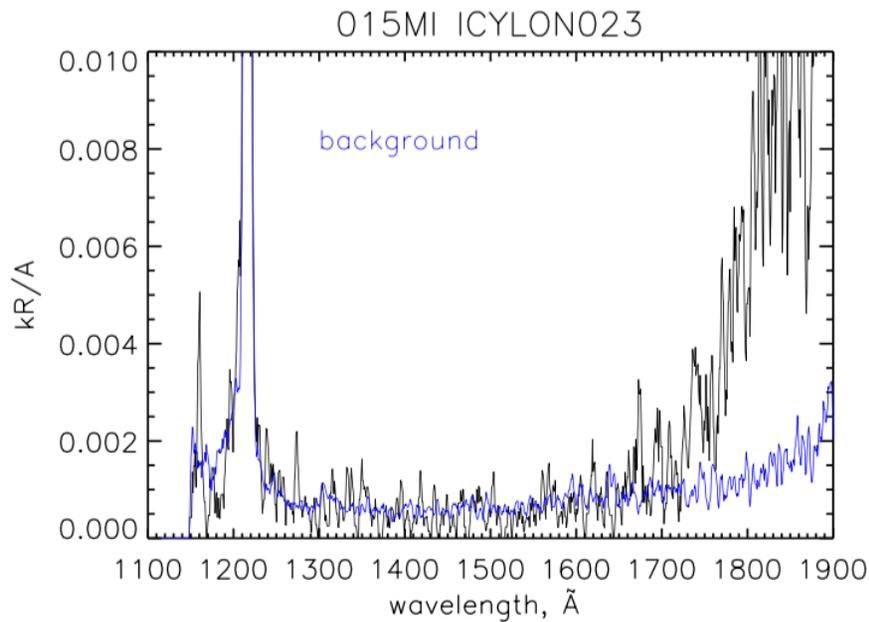
015MI_022W038PH001_ISS



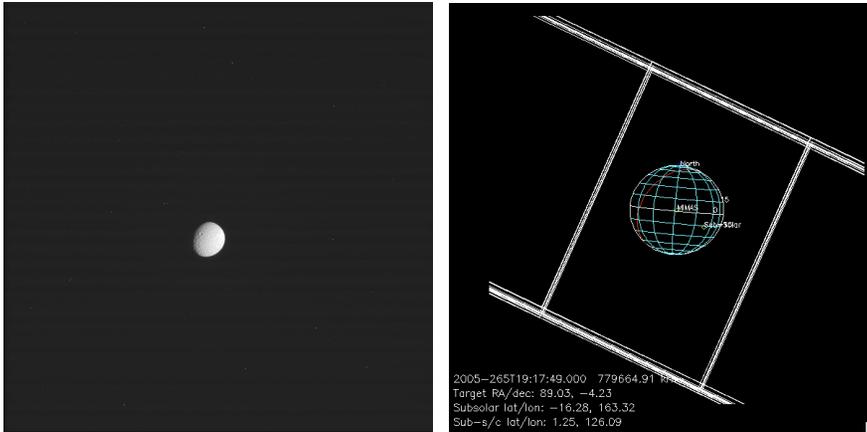
015MI_ICYLON023_ISS

2005-265T06:11
Alt= 1,332,074 km
Longitude= 23°W
Latitude=0.8°N
Phase= 38.8°

Mimas rings



015MI_238W042PH001_ISS



015MI_ICYLON025_ISS

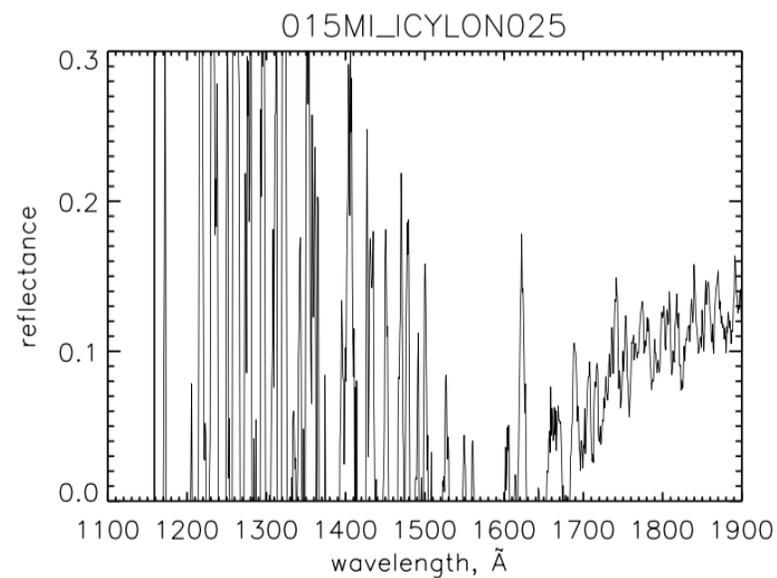
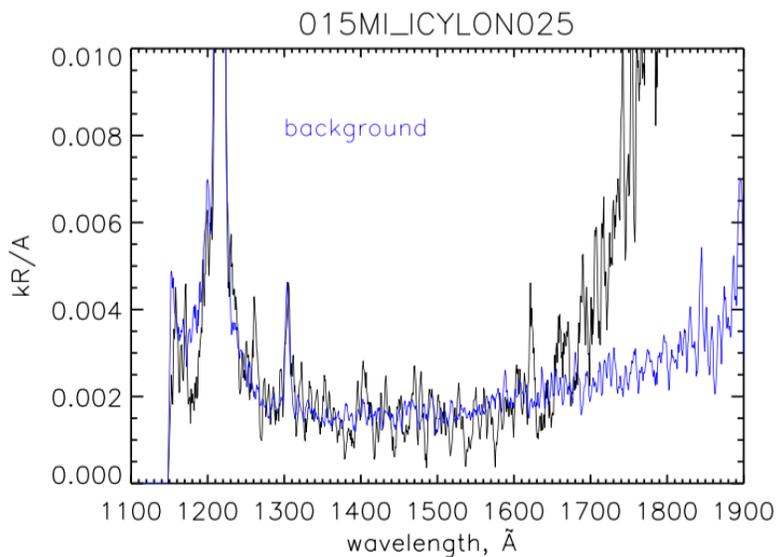
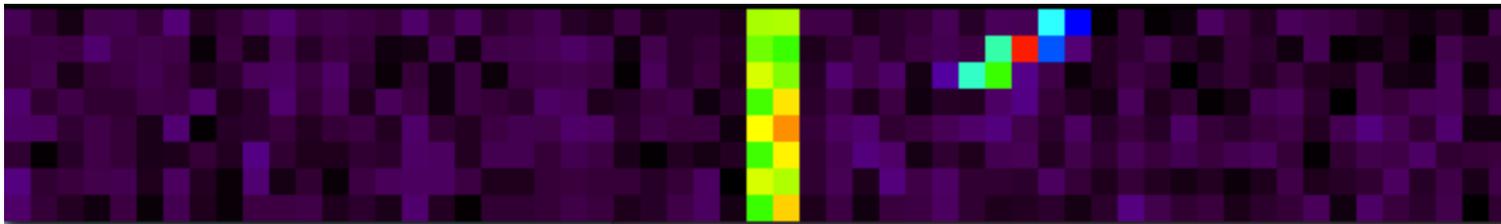
2005-265T19:18

Alt= 781,635 km

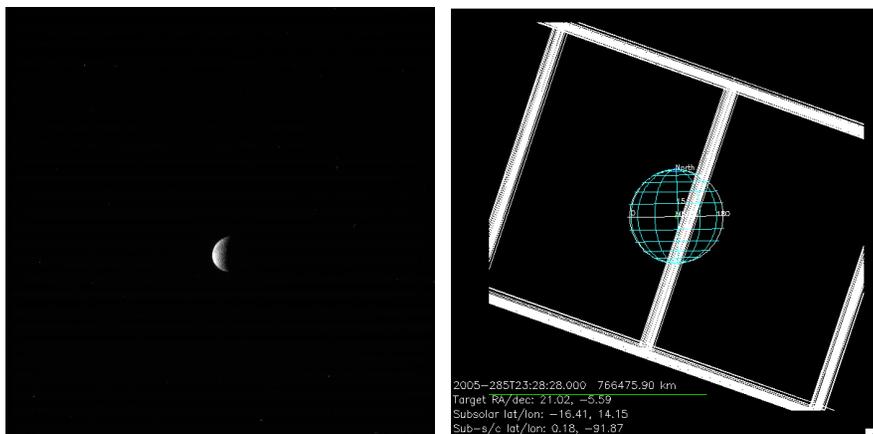
Longitude= 236°W

Latitude=1.2°N

Phase= 43.1°



016MI_094W108PH001_ISS



016MI_ICYLON002_ISS

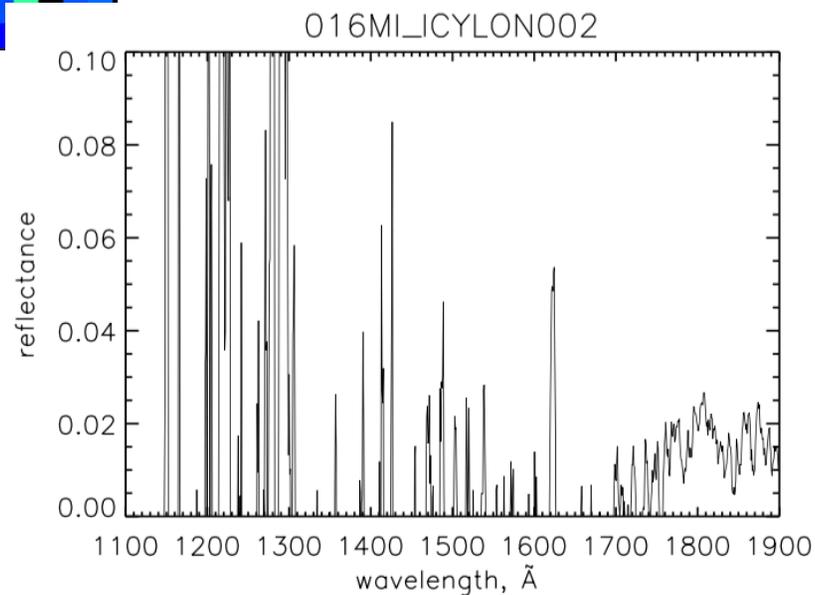
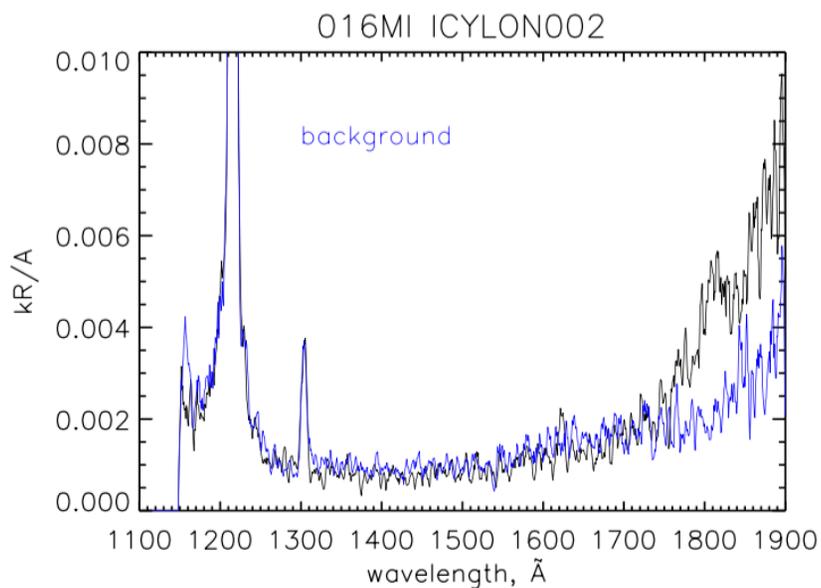
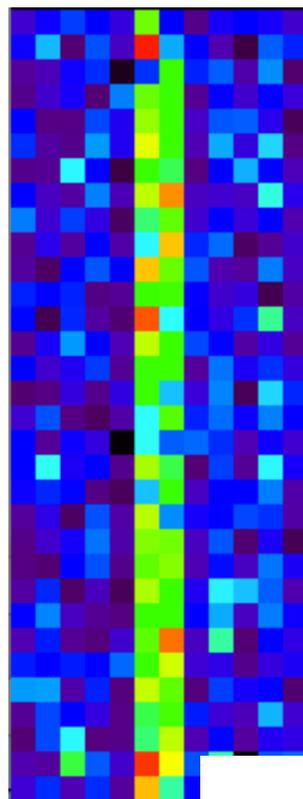
2005-285T23:29

Alt= 754,307 km

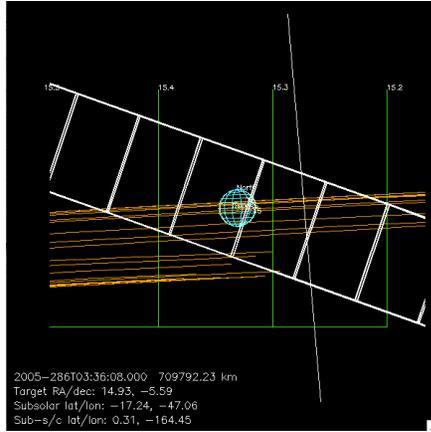
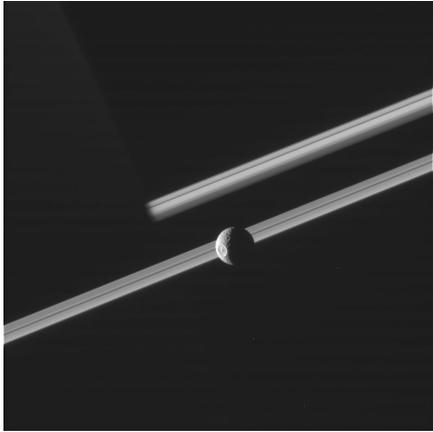
Longitude= 101°W

Latitude=0.2°N

Phase= 106.2°



016MI_166W113PH001_ISS



016MI_ICYLON003_ISS

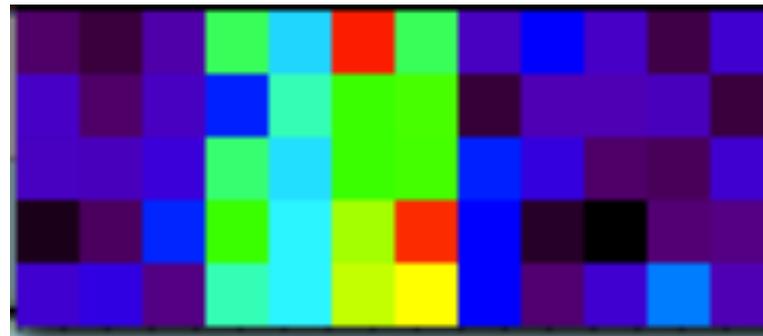
2005-286T03:37

Alt= 710,124 km

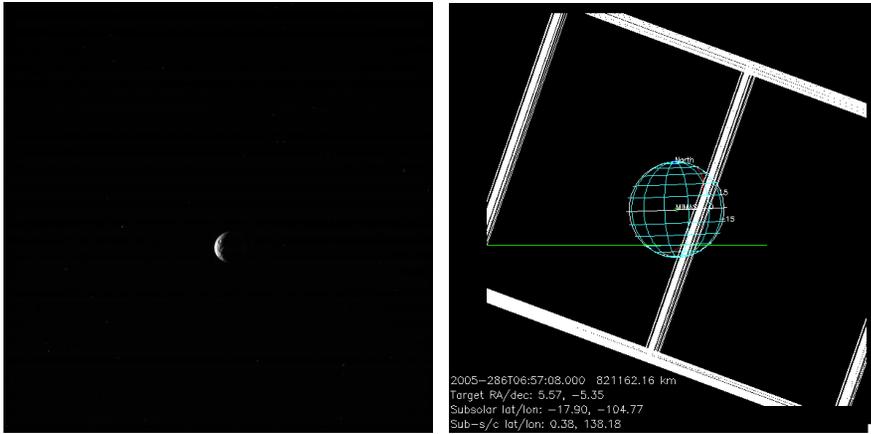
Longitude= 166°W

Latitude=0.3°N

Phase= 111.8°



016MI_238W122PH001_ISS



016MI_ICYLON004_ISS

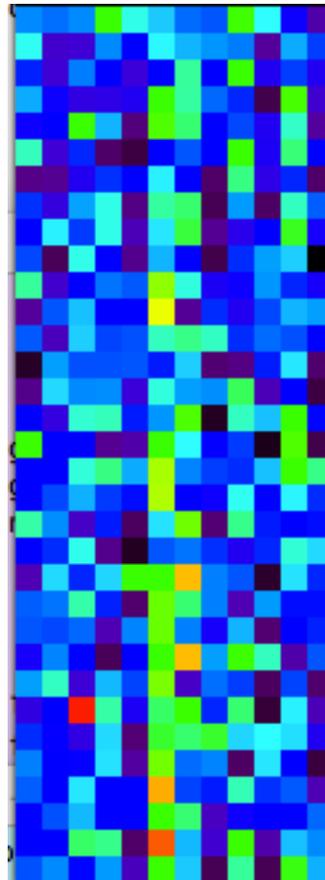
2005-286T06:58

Alt= 852,948 km

Longitude= 231°W

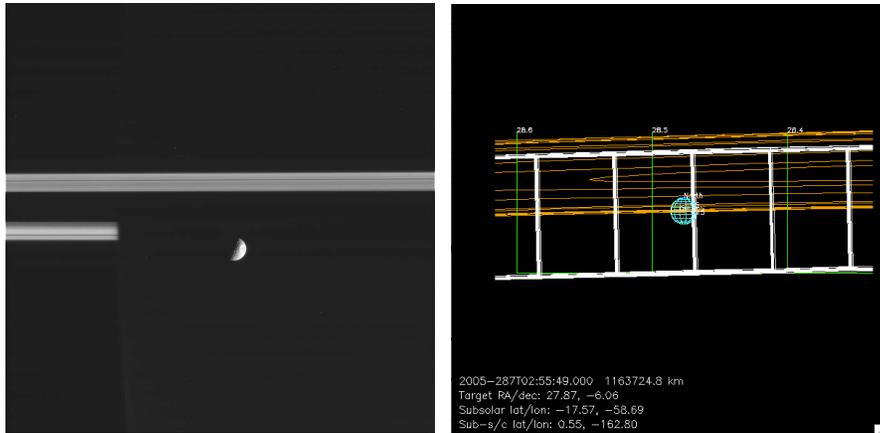
Latitude=0.4°N

Phase= 120.3°



Low SNR

016MI_166W100PH001_ISS



016MI_ICYLON005_ISS

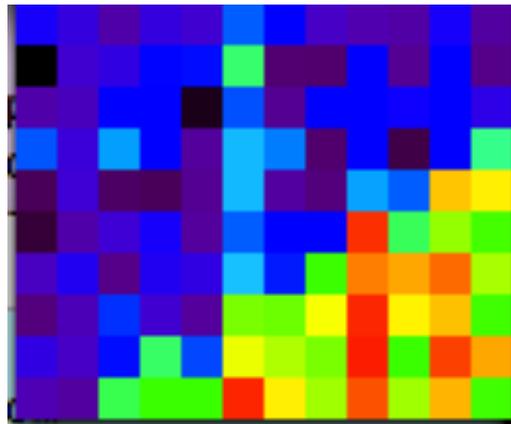
2005-287T02:56

Alt= 1,163,582 km

Longitude= 165°W

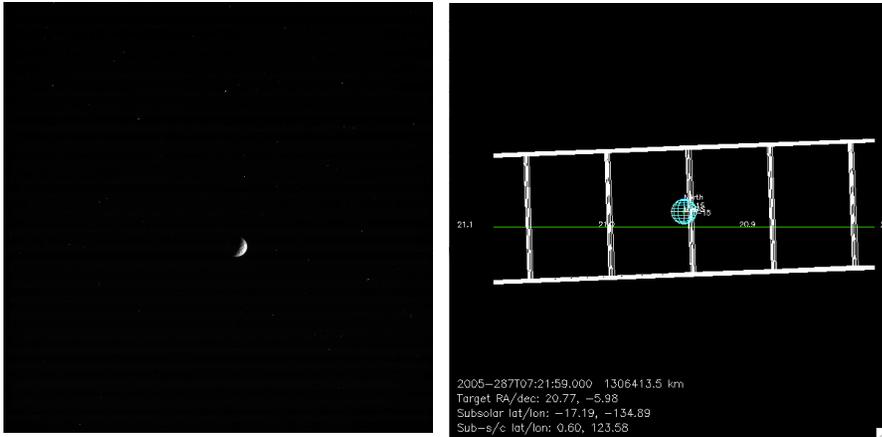
Latitude=0.6°N

Phase= 99.7°



Saturn and the rings in the slit
with Mimas for much of the
observation

016MI_238W107PH001_ISS



016MI_ICYLON006_ISS

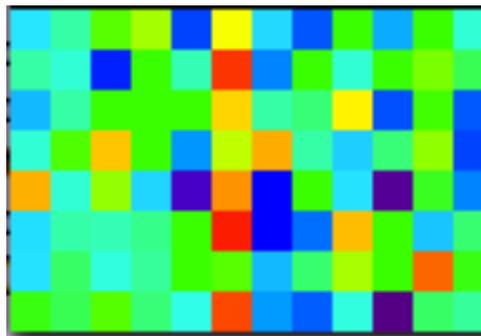
2005-287T07:22

Alt= 1,314,235 km

Longitude= 239°W

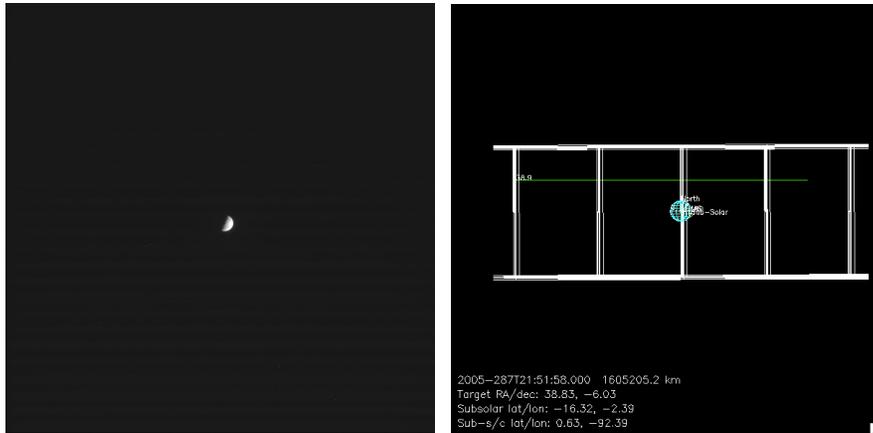
Latitude=0.6°N

Phase= 106.6°



Low SNR

016MI_094W090PH001_ISS



016MI_ICYLON007_ISS

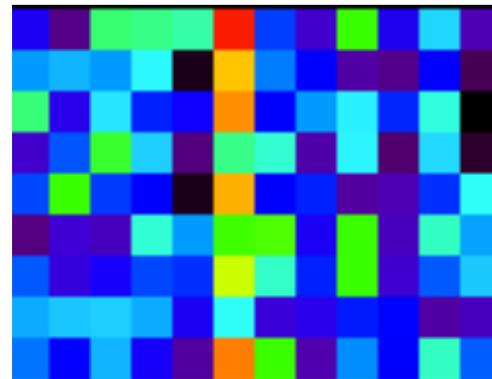
2005-287T21:52

Alt= 1,600,026 km

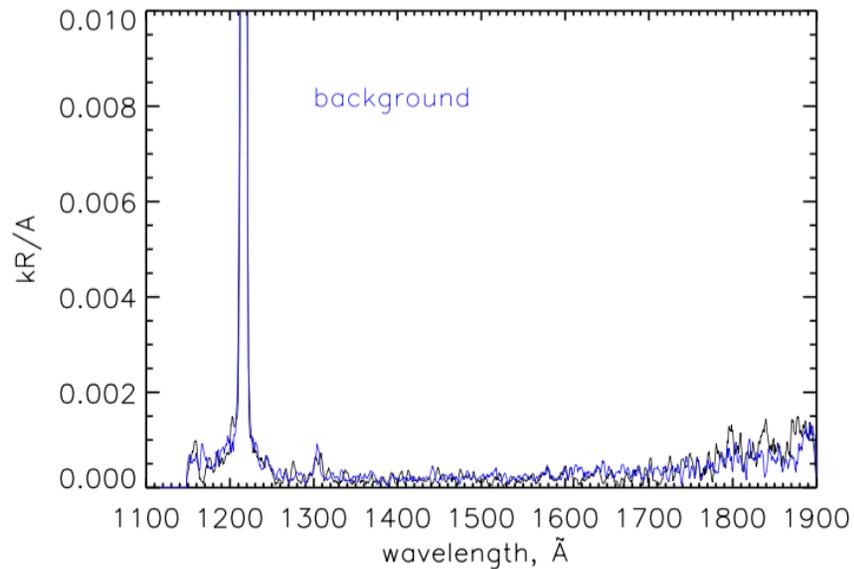
Longitude= 94.7°W

Latitude=0.6°N

Phase= 90°

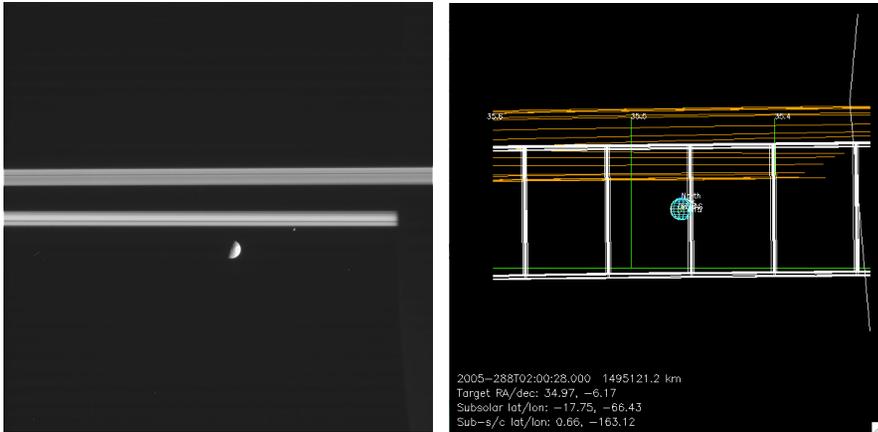


016MI ICYLON007



Low SNR

016MI_166W094PH001_ISS



016MI_ICYLON008_ISS

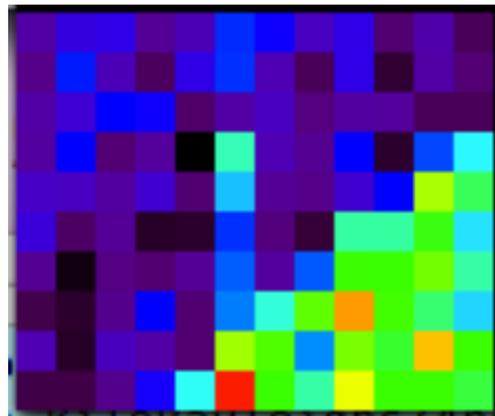
2005-288T02:01

Alt= 1,494,421 km

Longitude= 165.5°W

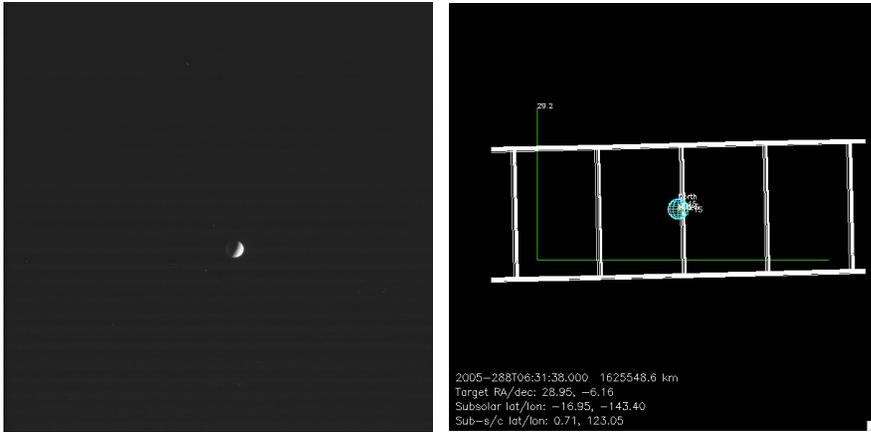
Latitude=0.7°N

Phase= 93.1°



Saturn and the rings in the slit
with Mimas for much of the
observation

016MI_238W100PH001_ISS



016MI_ICYLON009_ISS

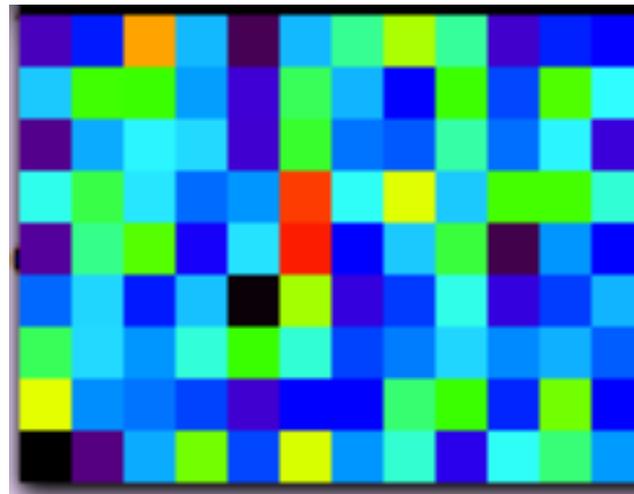
2005-288T06:32

Alt= 1,632,964 km

Longitude= 239°W

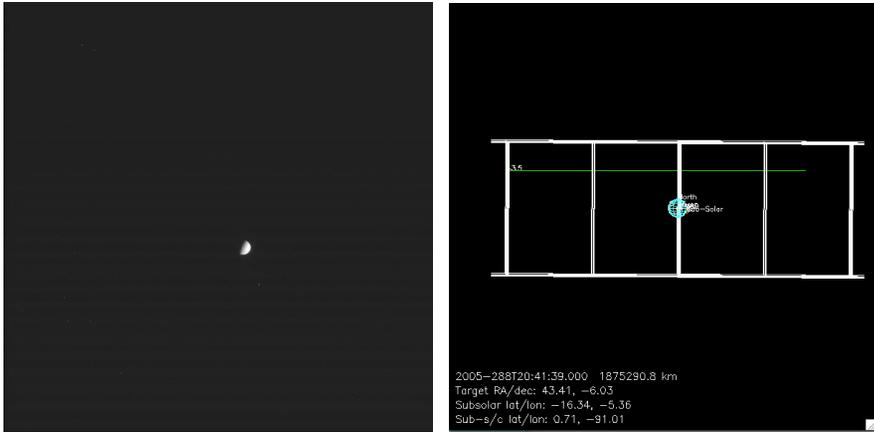
Latitude=0.7°N

Phase= 99°



Low SNR

016MI_094W086PH001_ISS



016MI_ICYLON010_ISS

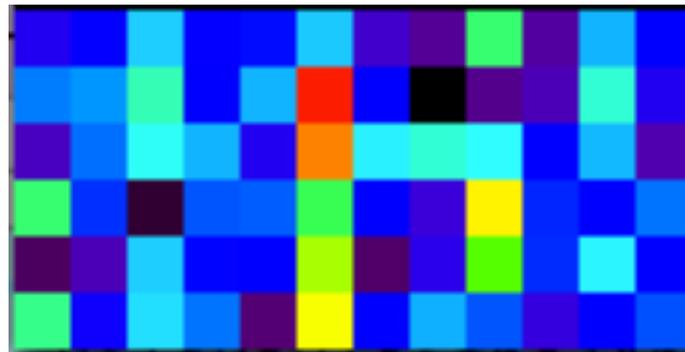
2005-288T20:42

Alt= 1,871,711 km

Longitude= 93°W

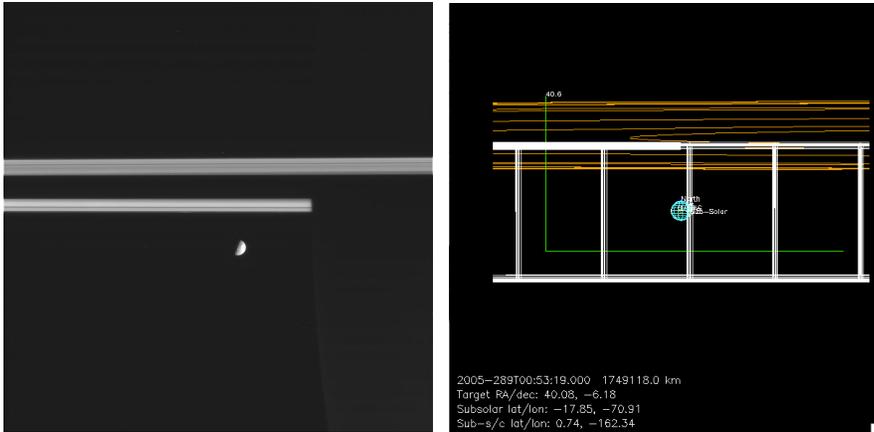
Latitude=0.7°N

Phase= 85.5°



Low SNR

016MI_166W089PH001_ISS



016MI_ICYLON011_ISS

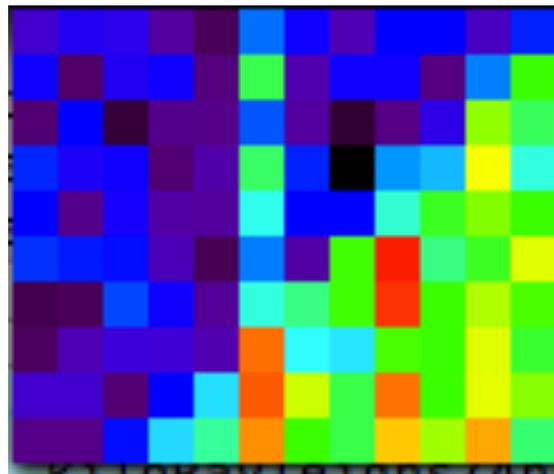
2005-289T00:54

Alt= 1,747,878 km

Longitude= 165°W

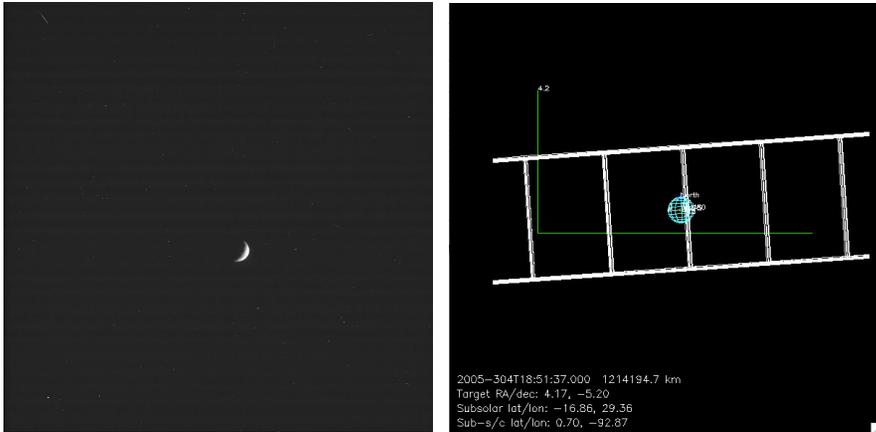
Latitude=0.7°N

Phase= 88.4°



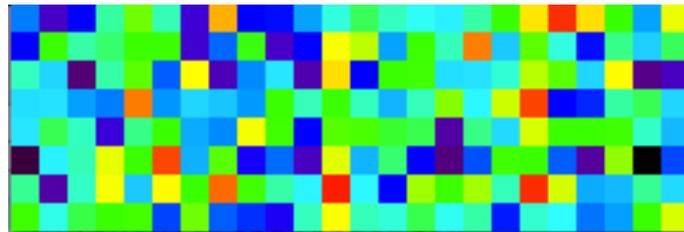
Saturn and the rings in the slit
with Mimas for much of the
observation

017MI_094W123PH001_ISS



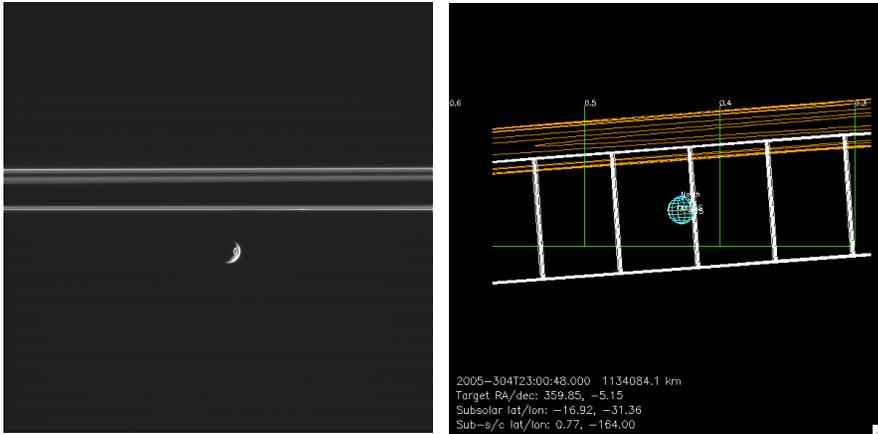
017MI_ICYLON001_ISS

2005-304T18:52
Alt= 1,210,508 km
Longitude= 95°W
Latitude=0.7°N
Phase= 122.6°



Low SNR

017MI_166W127PH001_ISS



017MI_ICYLON002_ISS

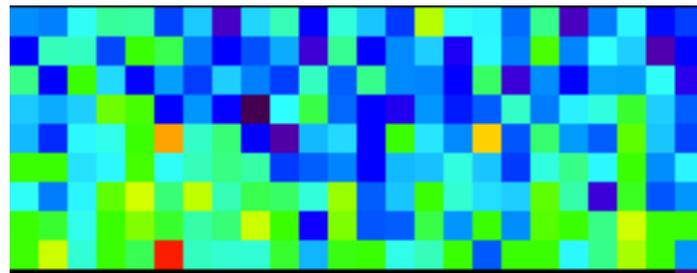
2005-304T23:01

Alt= 1,134,371 km

Longitude= 166°W

Latitude=0.8°N

Phase= 126.4°



Low SNR; rings in slit
with Mimas

017MI_ICYLON003_ISS

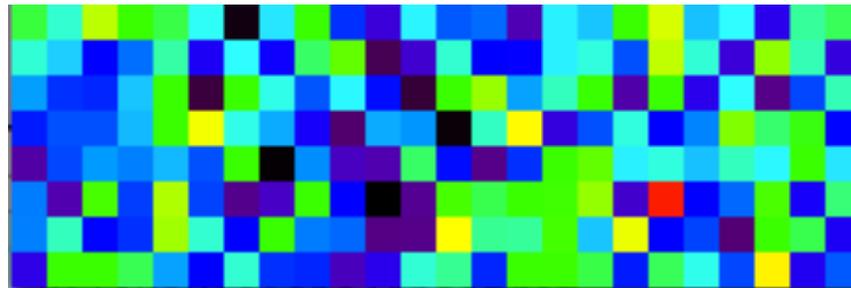
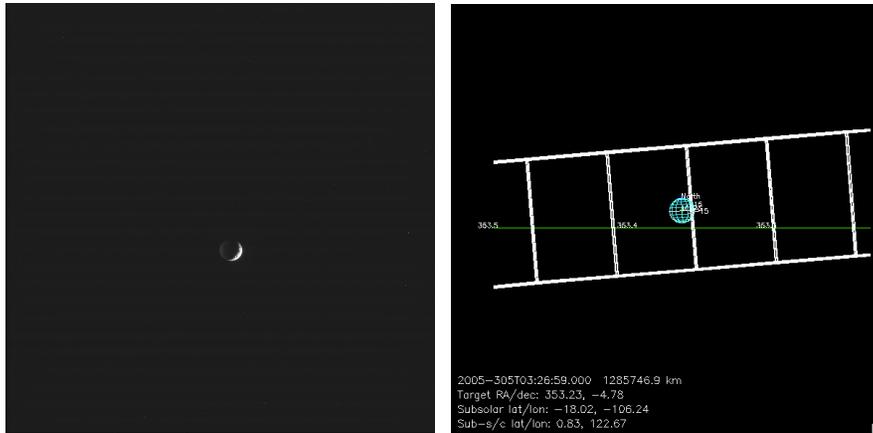
2005-305T03:27

Alt= 1,292,757 km

Longitude= 239°W

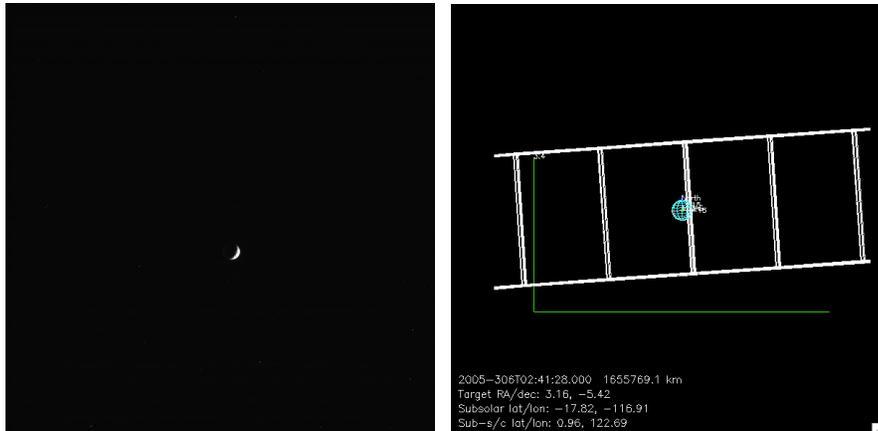
Latitude=0.8°N

Phase= 132.6°



Low SNR

017MI_238W124PH001_ISS



017MI_ICYLON004_ISS

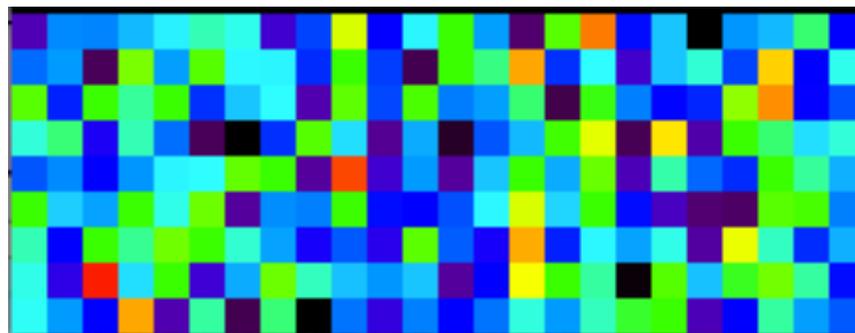
2005-306T02:42

Alt= 1,662,487 km

Longitude= 240°W

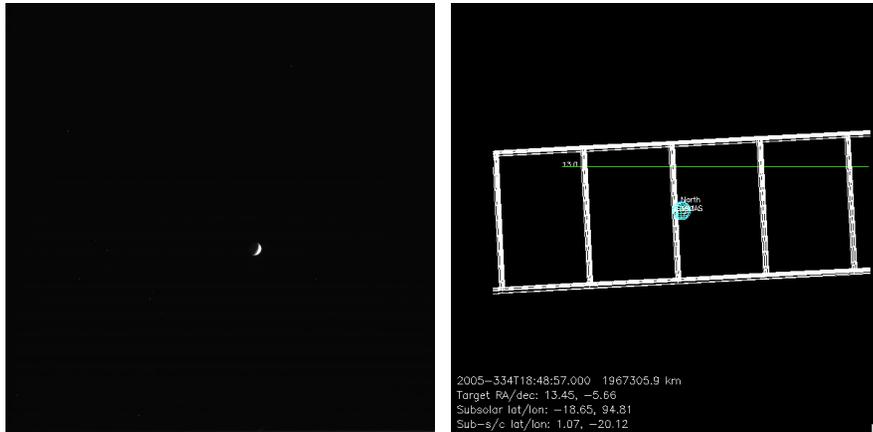
Latitude=1°N

Phase= 123.6°



Low SNR

018MI_022W115PH001_ISS



018MI_ICYLON001_ISS

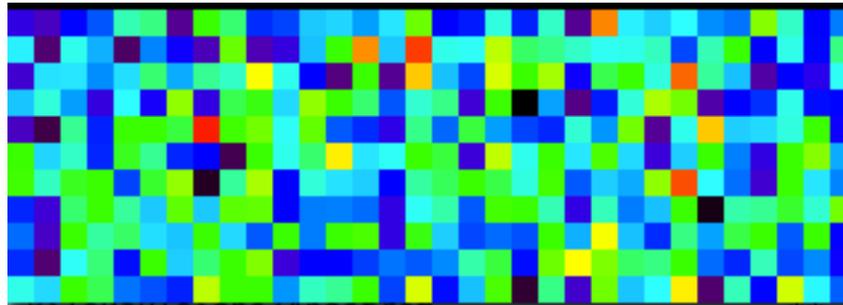
2005-334T18:49

Alt= 1,965,903 km

Longitude= 22°W

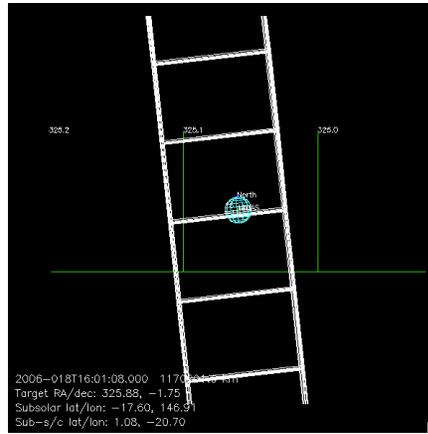
Latitude=1.1°N

Phase= 115.4°



Low SNR

020MI_022W158PH001_ISS



020MI_ICYLON001_ISS

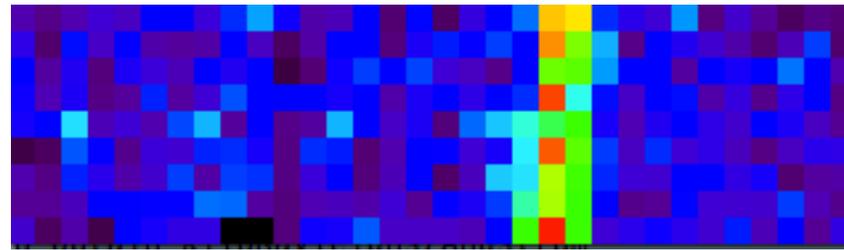
2006-018T16:02

Alt= 1,170,147 km

Longitude= 22°W

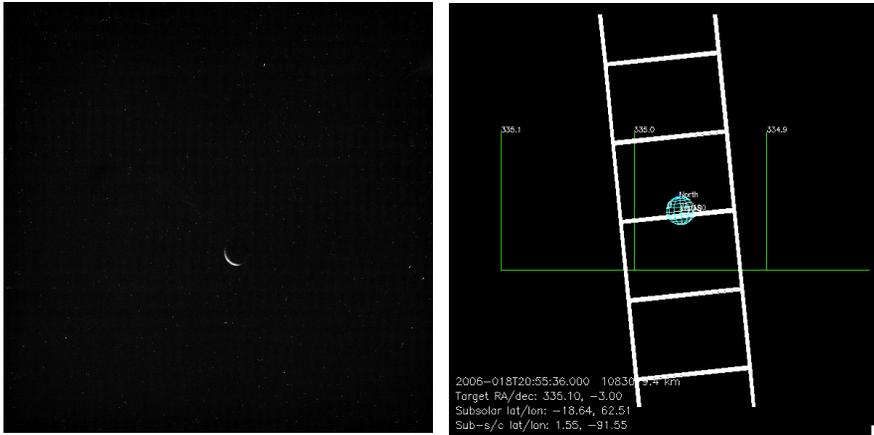
Latitude=1°N

Phase= 157°



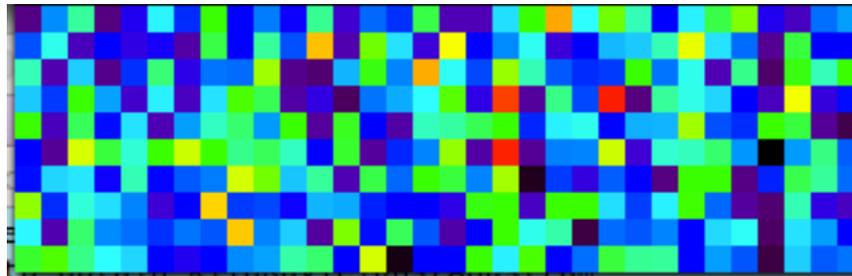
rings

020MI_094W151PH001_ISS



020MI_ICYLON006_ISS

2006-018T20:56
Alt= 1,078,610 km
Longitude= 94°W
Latitude=1.6°N
Phase= 151°



Low SNR

020MI_166W154PH001_ISS



020MI_ICYLON008_ISS

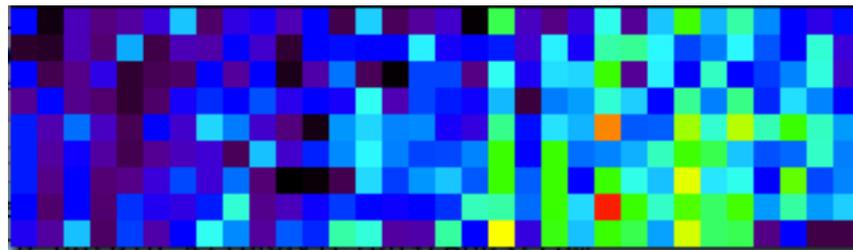
2006-019T01:12

Alt= 1,012,313 km

Longitude= 167°W

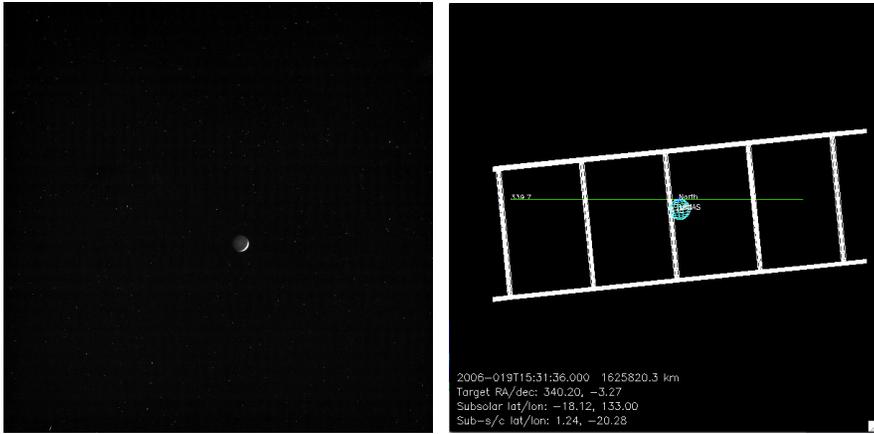
Latitude=1.6°N

Phase= 154°



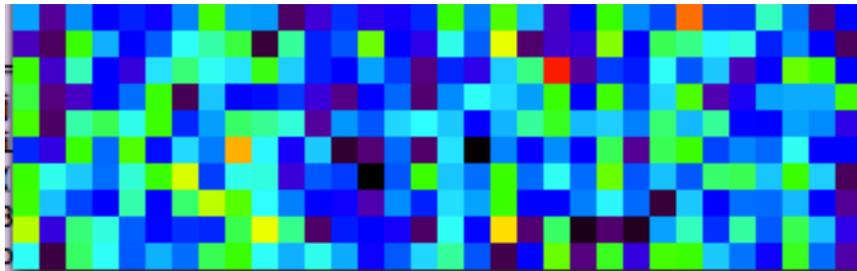
In front of Saturn

020MI_022W147PH001_ISS



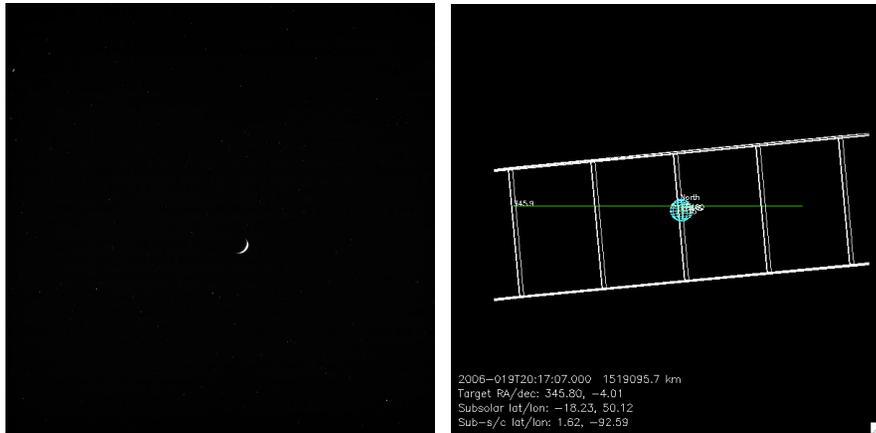
020MI_ICYLON011_ISS

2006-019T15:31
Alt= 1,625,132 km
Longitude= 22°W
Latitude=1.3°N
Phase= 146.8°



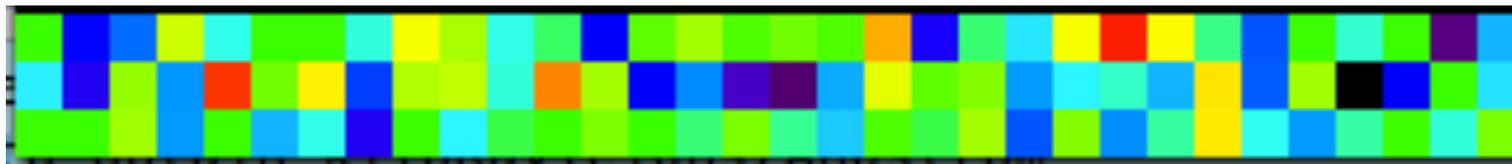
Low SNR

020MI_094W142PH001_ISS



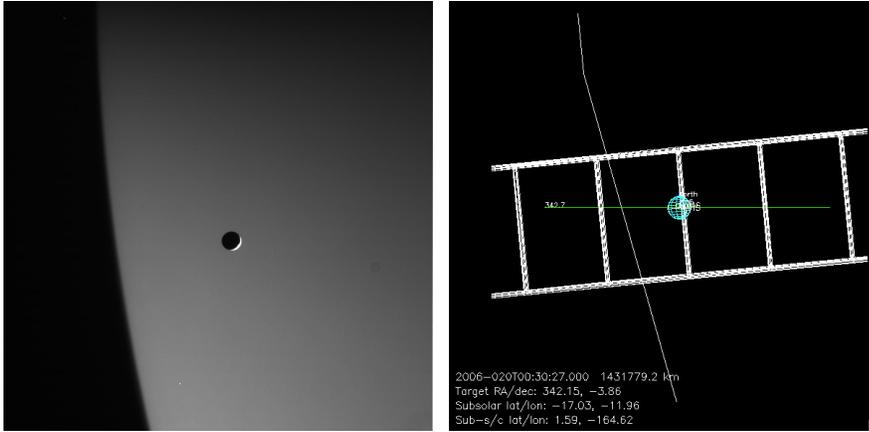
020MI_ICYLON013_ISS

2006-019T20:10
Alt= 1,517,803 km
Longitude= 93°W
Latitude=1.6°N
Phase= 142°



Low SNR

020MI_166W145PH001_ISS



020MI_ICYLON016_ISS

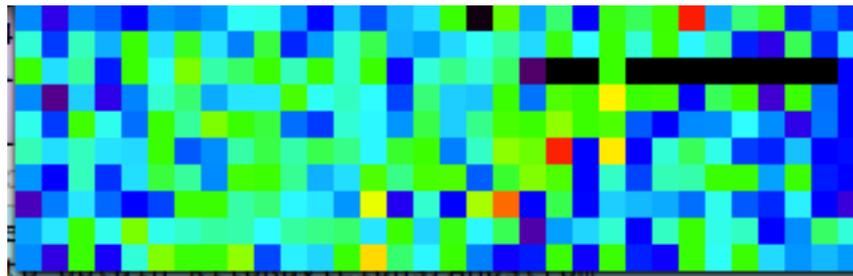
2006-020T00:25

Alt= 1,431,845 km

Longitude= 166°W

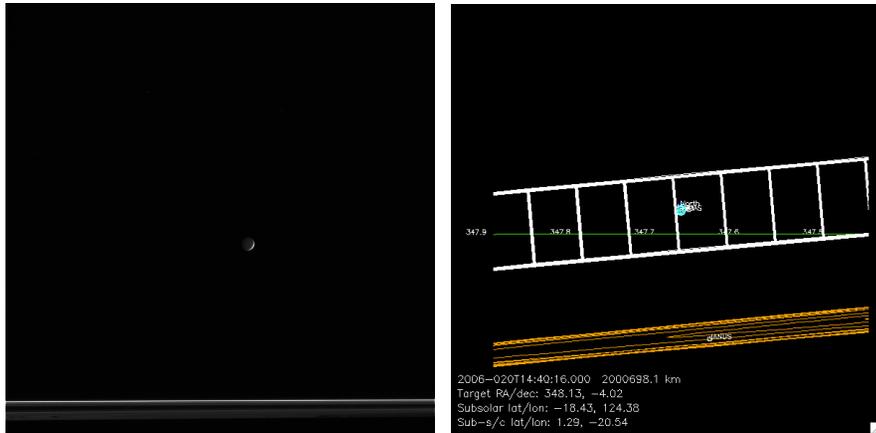
Latitude=1.6°N

Phase= 145°



In front of Saturn

020MI_022W140PH001_ISS



020MI_ICYLON017_ISS

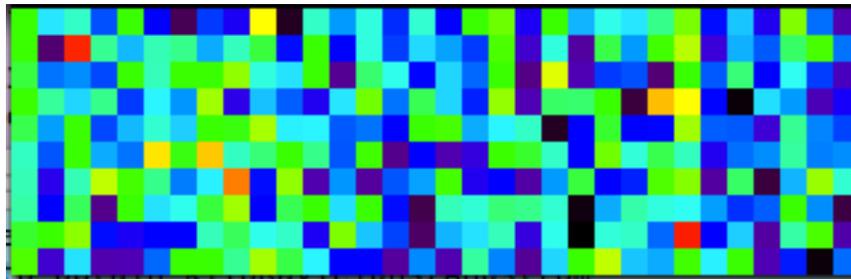
2006-020T14:41

Alt= 1,999,539 km

Longitude= 22.5°W

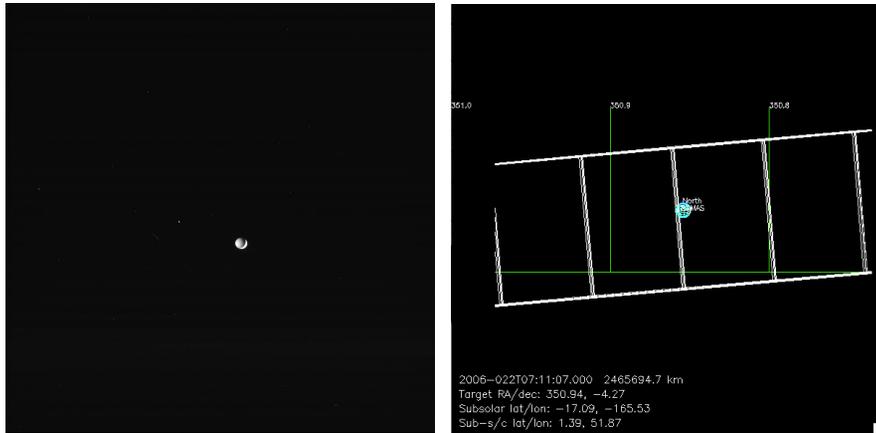
Latitude=1.3°N

Phase= 140.2°



Low SNR

020MI_310W138PH001_ISS



020MI_ICYLON019_ISS

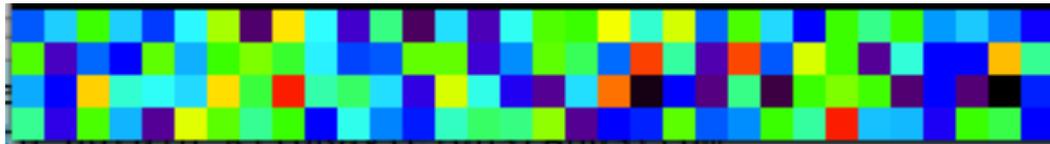
2006-022T07:12

Alt= 2,468,234 km

Longitude= 309°W

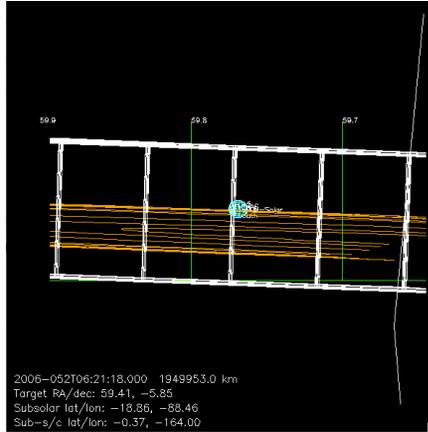
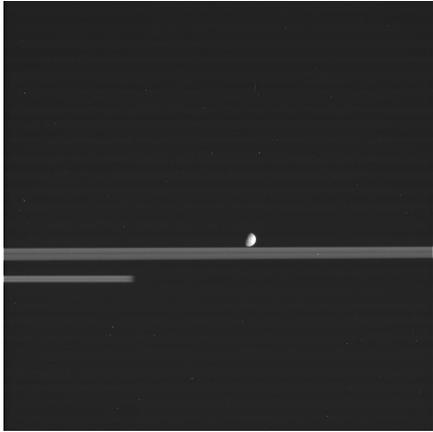
Latitude=1.4°N

Phase= 137.6°



Low SNR

021MI_166W075PH001_ISS



021MI_ICYLON001_ISS

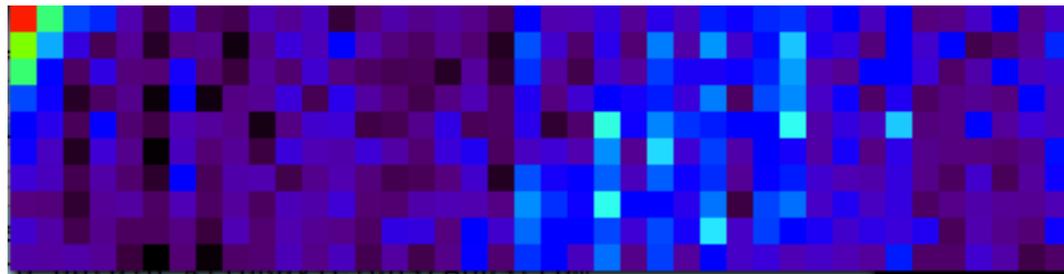
2006-052T06:21

Alt= 1,945,526 km

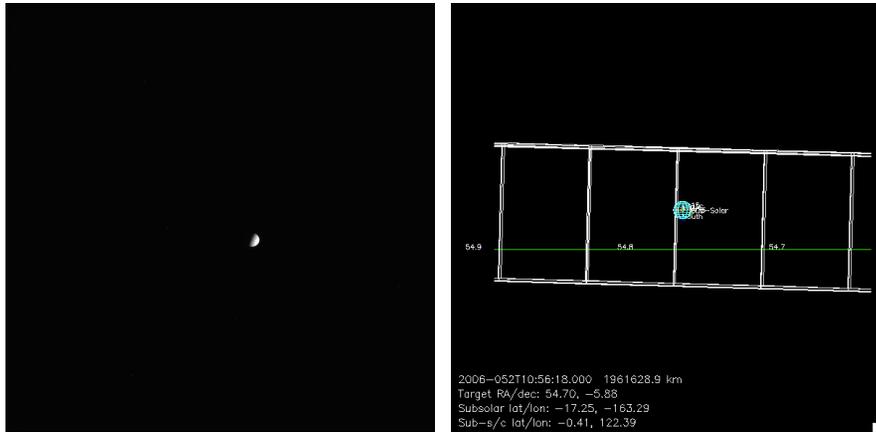
Longitude= 166°W

Latitude=0.4°S

Phase= 74.7°



021MI_238W079PH001_ISS



021MI_ICYLON002_ISS

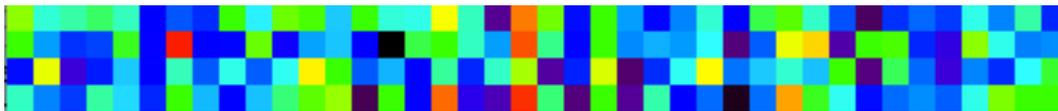
2006-052T10:57

Alt= 1,962,949 km

Longitude= 238°W

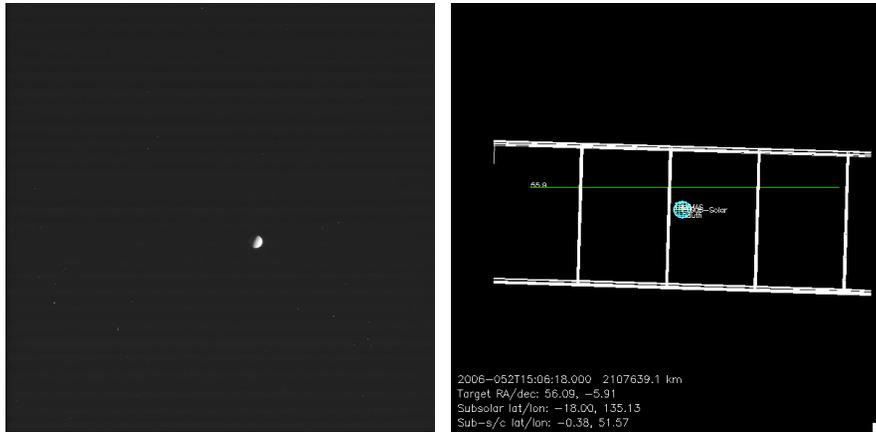
Latitude=0.4°S

Phase= 79.3°



Low SNR

021MI_310W078PH001_ISS



021MI_ICYLON003_ISS

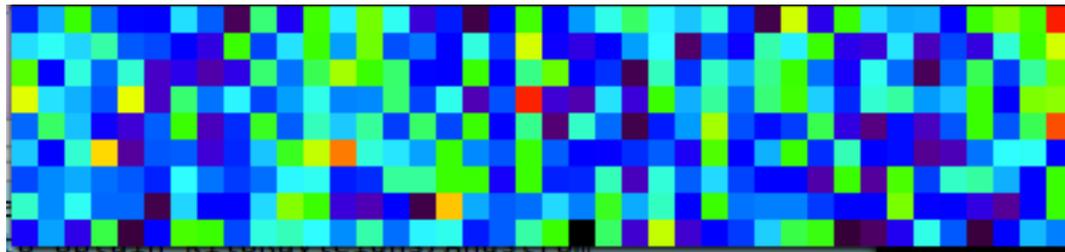
2006-052T15:07

Alt= 2,111,167 km

Longitude= 311°W

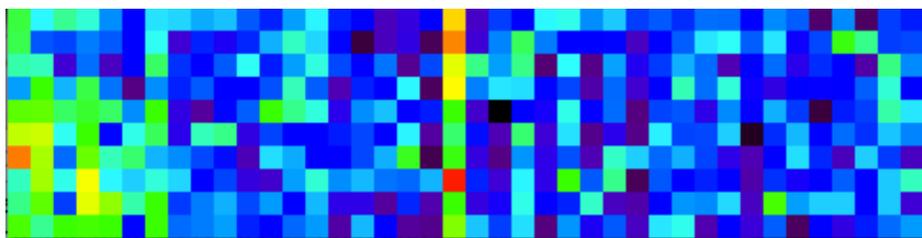
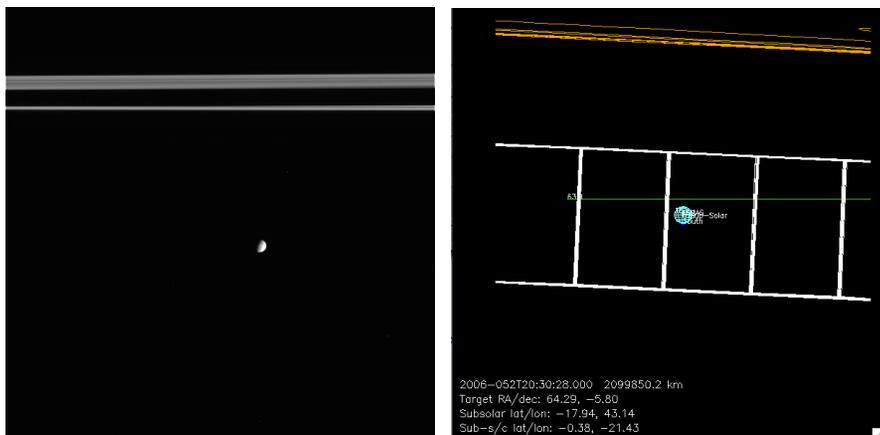
Latitude=0.4°S

Phase= 78.2°



Low SNR

021MI_022W071PH001_ISS



021MI_ICYLON004_ISS

2006-052T20:31

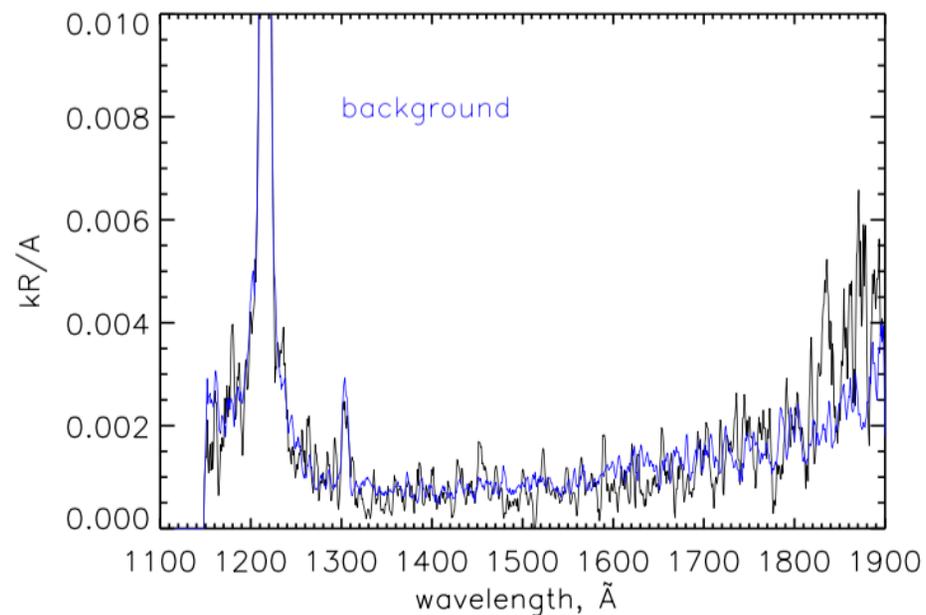
Alt= 2,094,234 km

Lon= 23°W

Latitude=0.38°S

Phase= 70.6°

016MI ICYLON004



021MI_310W073PH001_ISS



021MI_ICYLON005_ISS

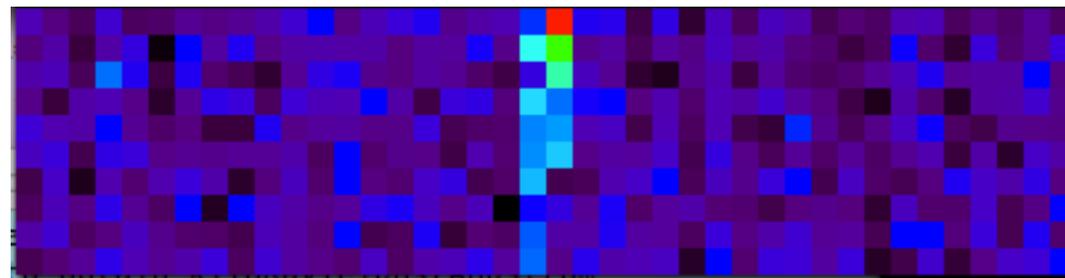
2006-053T14:16

Alt= 1,771,147 km

Longitude= 313°W

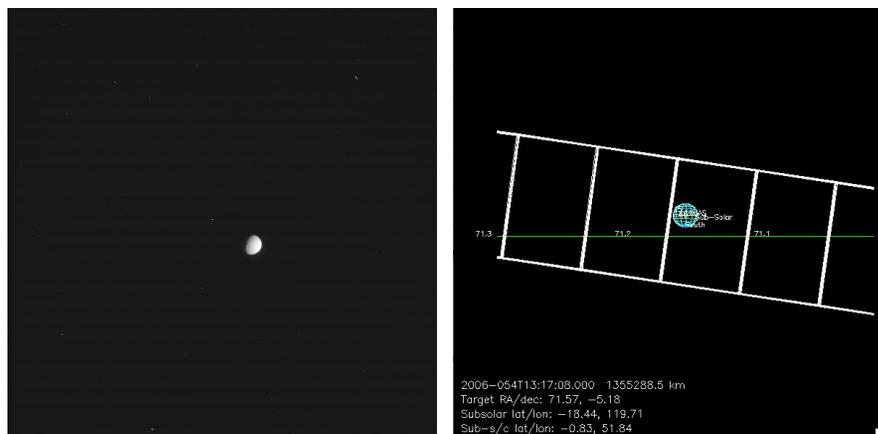
Latitude=0.6°S

Phase= 72.2°



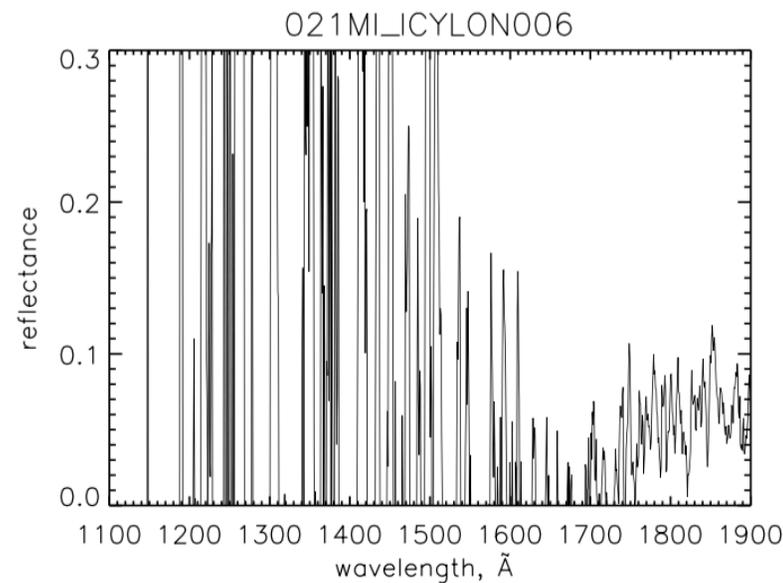
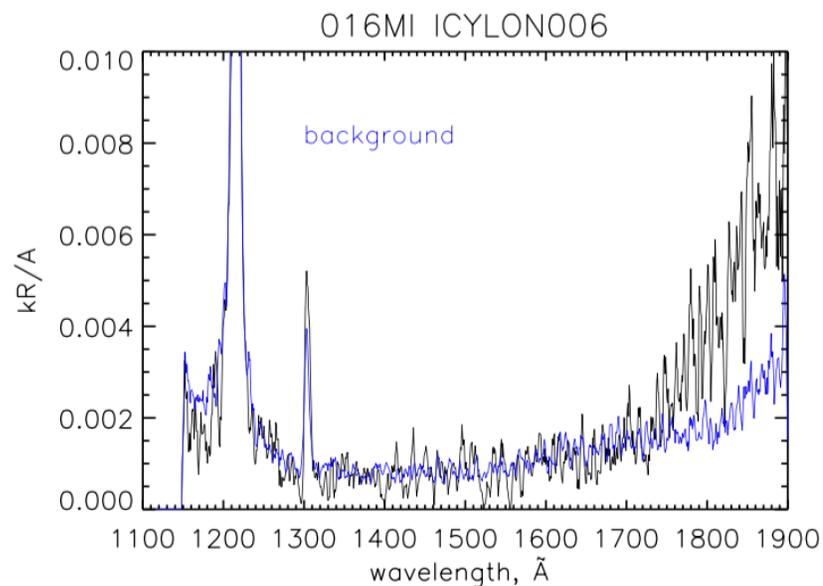
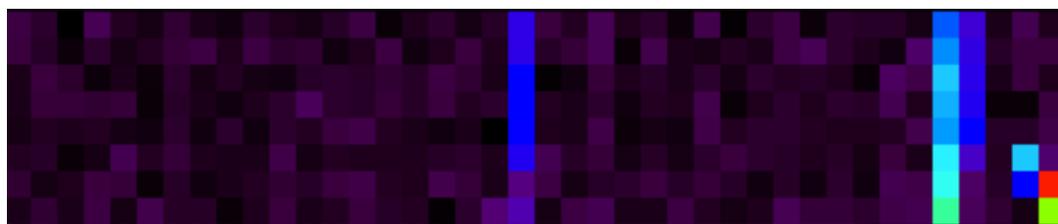
Rings come into slit part-way through the observation

021MI_310W064PH001_ISS

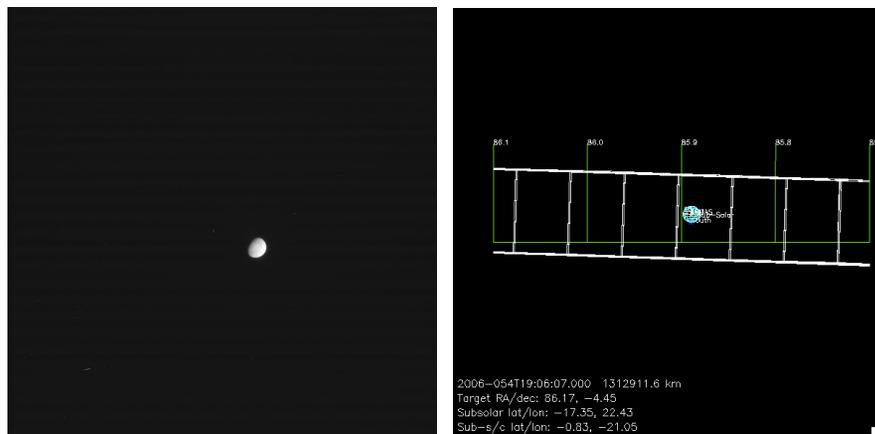


021MI_ICYLON006_ISS

2006-054T13:18
Alt= 1,357,642 km
Lon= 310°W
Latitude=0.8°S
Phase= 63.7°

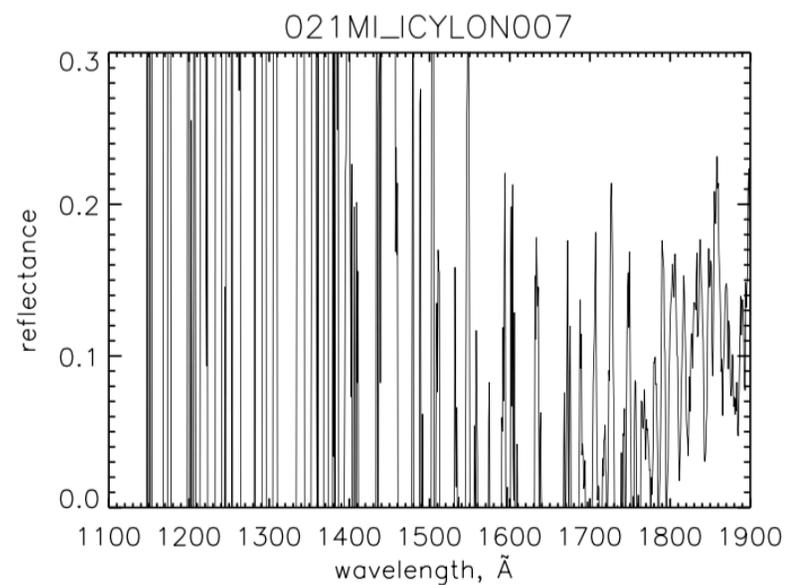
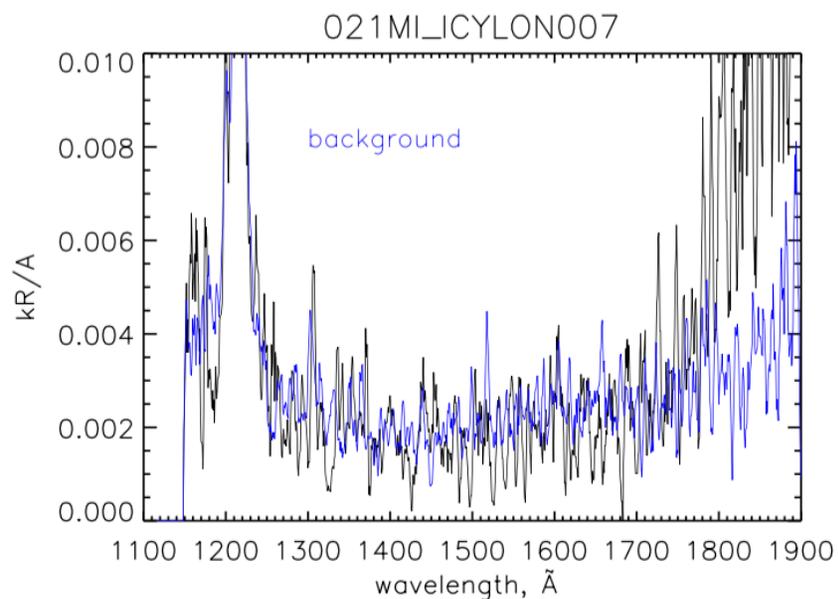


021MI_022W050PH001_ISS

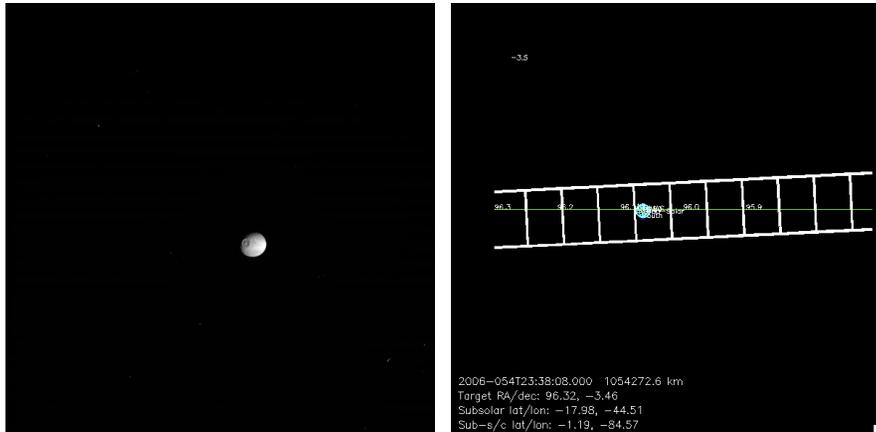


021MI_ICYLON007_ISS

2006-054T19:07
Alt= 1,310716 km
Longitude= 22°W
Latitude=0.8°S
Phase= 50°



021MI_094W041PH001_ISS



021MI_ICYLON008_ISS

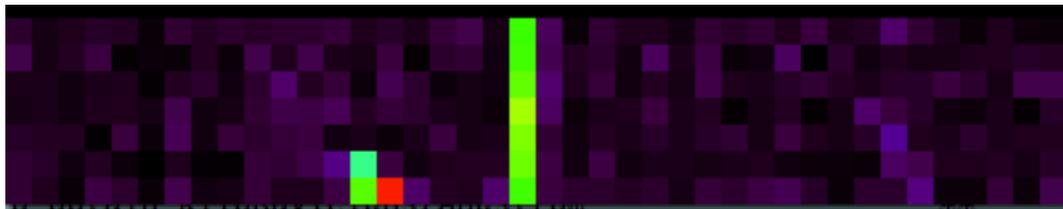
2006-054T23:39

Alt= 1,047,281 km

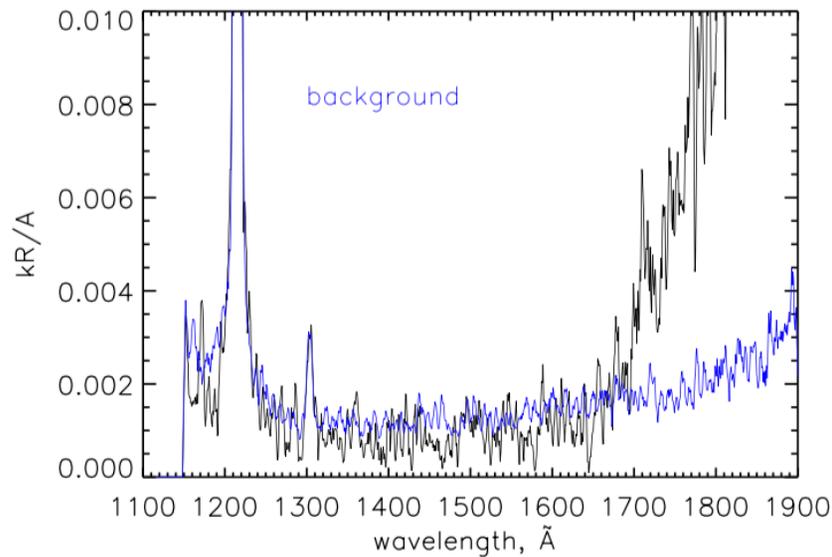
Longitude= 86°W

Latitude=1.2°S

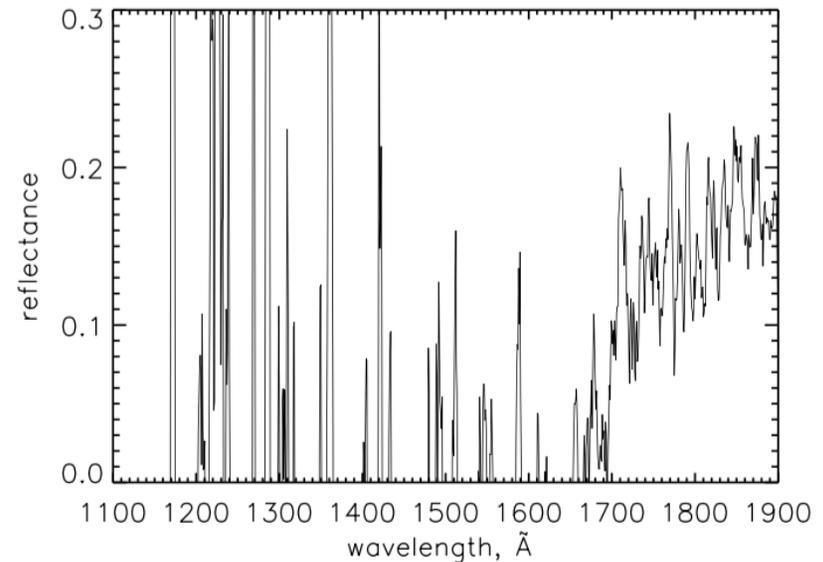
Phase= 41.1°



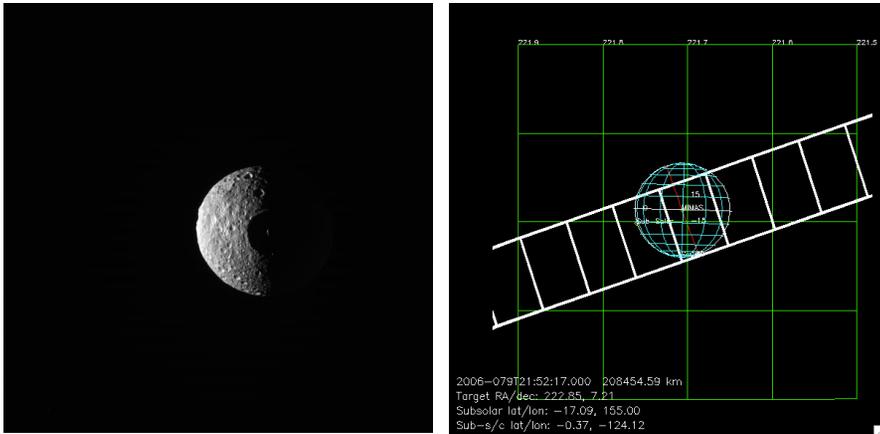
021MI_ICYLON008



021MI_ICYLON008



022MI_GEOLOG002_ISS



022MI_ICYLON001_ISS

2006-079T21:53

Alt= 206,306 km

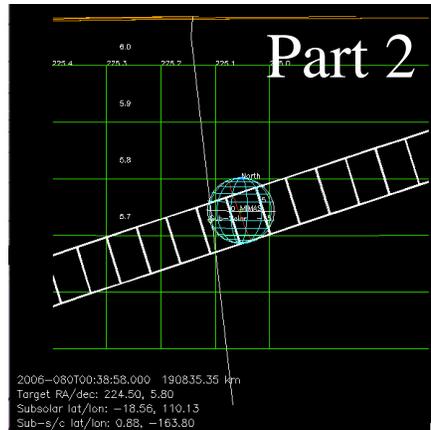
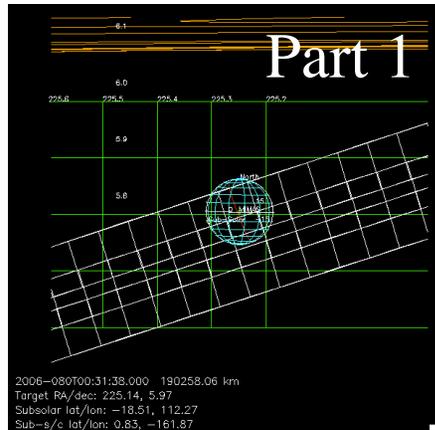
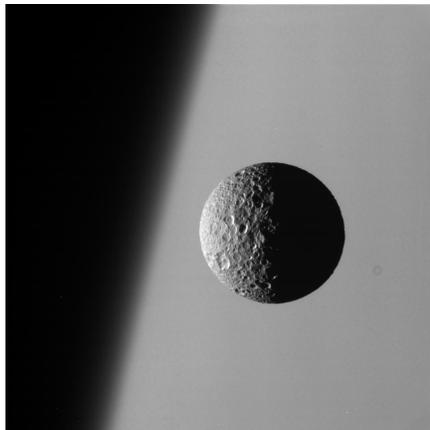
Longitude= 126°W

Latitude=0.3°S

Phase= 87.7°



022MI_GEOLG003_ISS



022MI_ICYLON002_ISS

2006-080T00:32

Alt= 190,196 km

Lon= 162°W

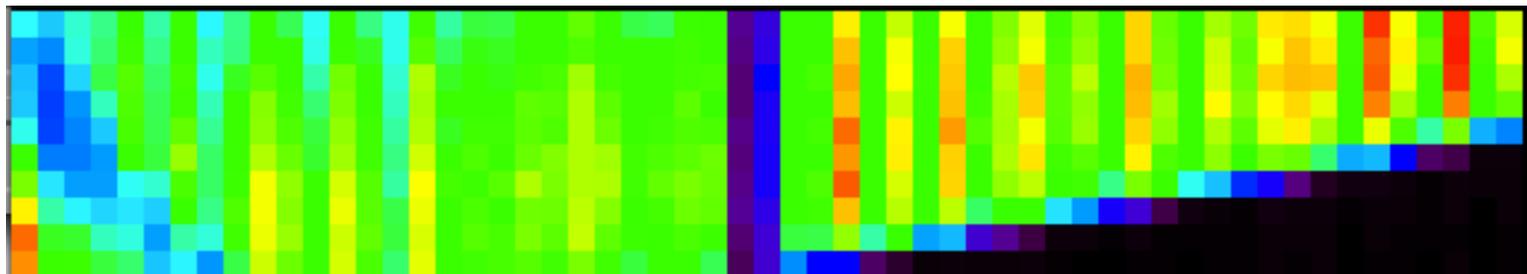
Latitude=0.8°N

Phase= 90.8°

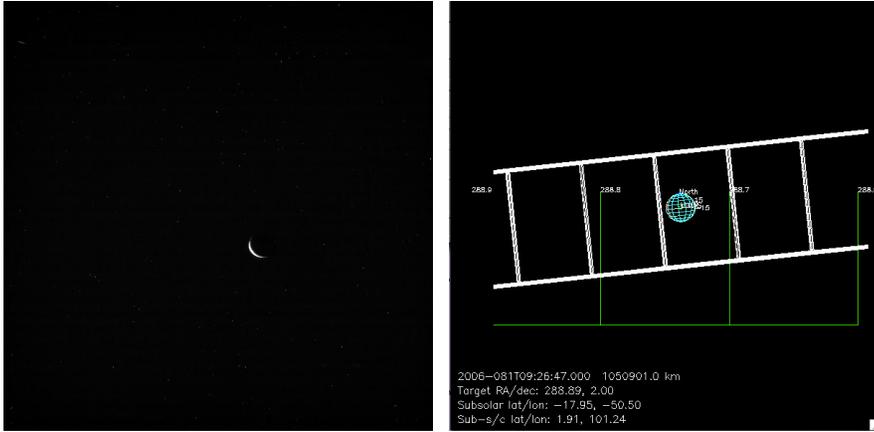
Part 1



Part 2



022MI_238W149PH001_ISS



022MI_ICYLON003_ISS

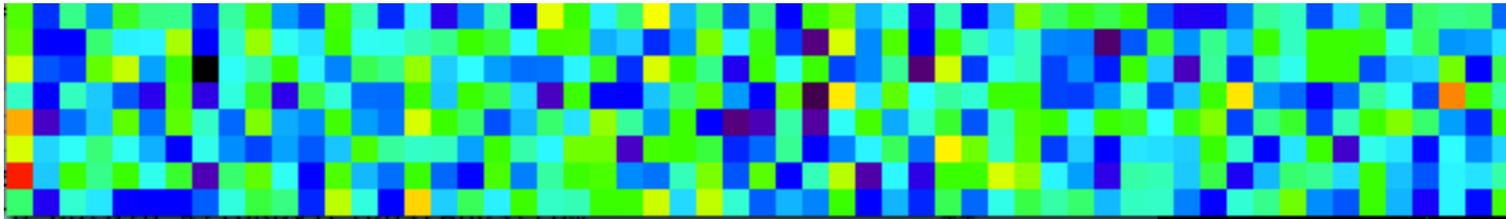
2006-081T09:27

Alt= 1,058,585 km

Longitude= 261°W

Latitude=1.9°N

Phase= 149°



Low SNR

022MI_310W162PH001_ISS



022MI_ICYLON004_ISS

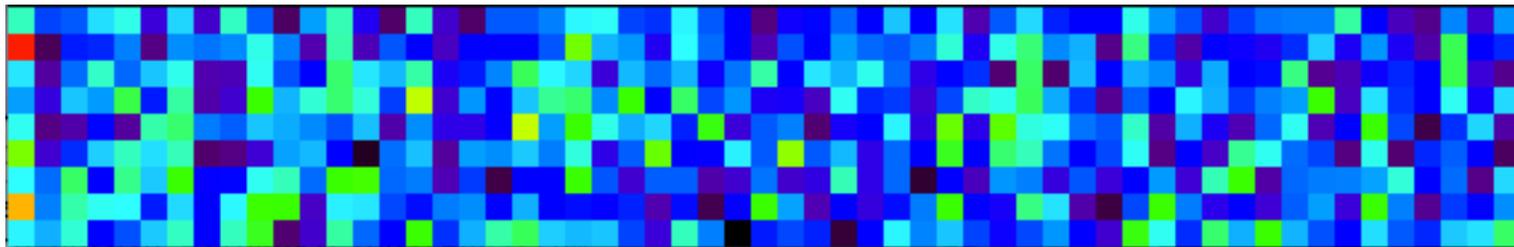
2006-083T11:17

Alt= 2,053,187 km

Longitude= 311°W

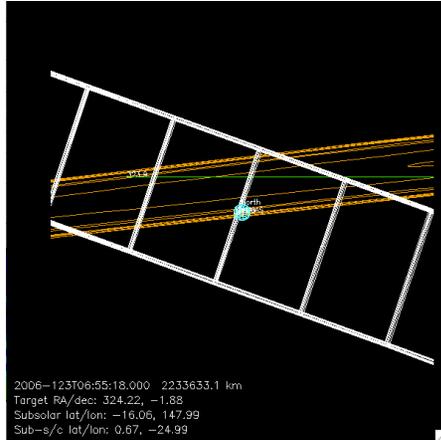
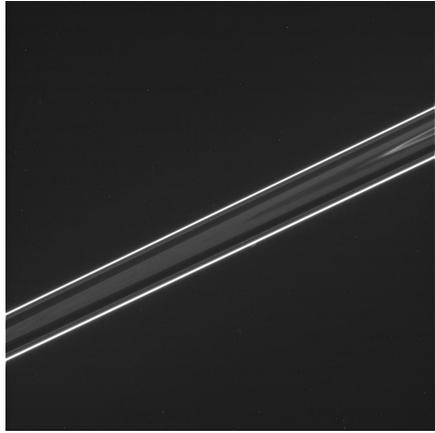
Latitude=1.5°N

Phase= 162°



Low SNR

023MI_022W161PH001_ISS



023MI_ICYLON069_ISS

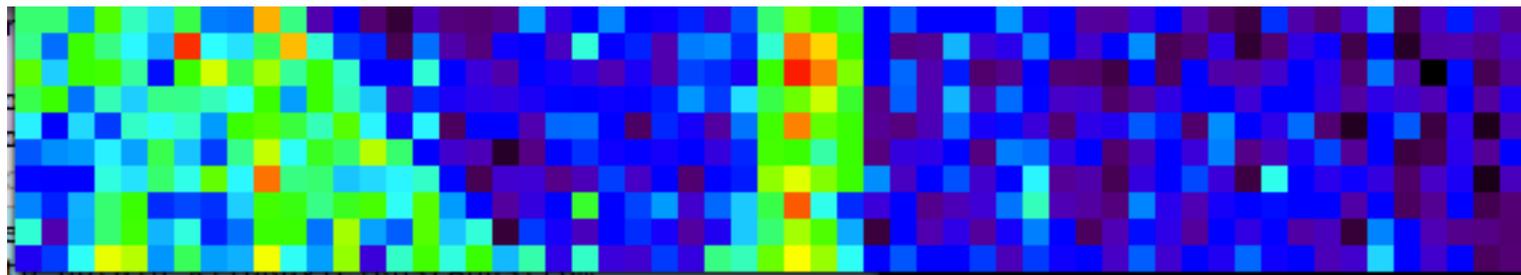
2006-123T06:56

Alt= 2,231,465 km

Longitude= 27°W

Latitude=0.7°N

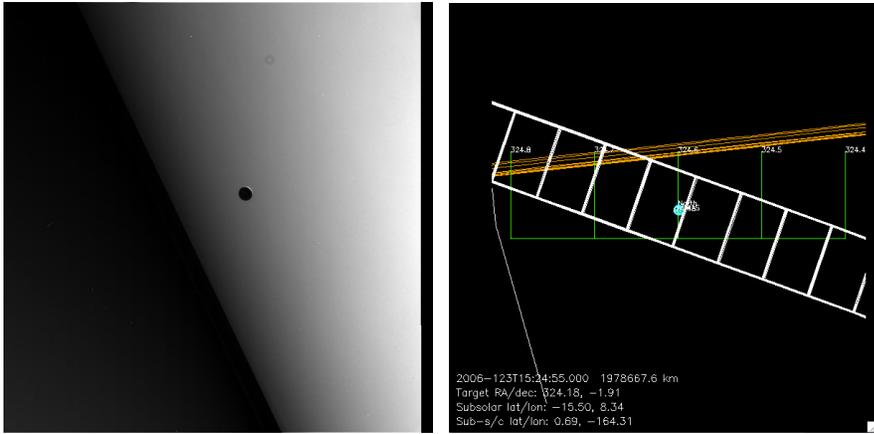
Phase= 161°



Saturn

Rings + Mimas

023MI_166W161PH001_ISS



023MI_ICYLON071_ISS

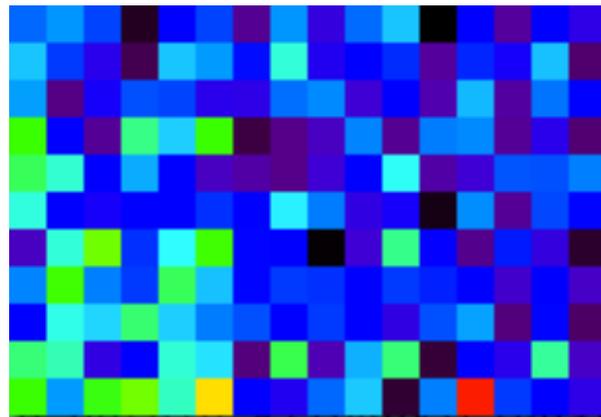
2006-123T15:25

Alt= 1,977,847 km

Longitude= 167°W

Latitude=0.7°N

Phase= 160.8°



Mimas in front of Saturn

025MI_ICYLON001_CIRS

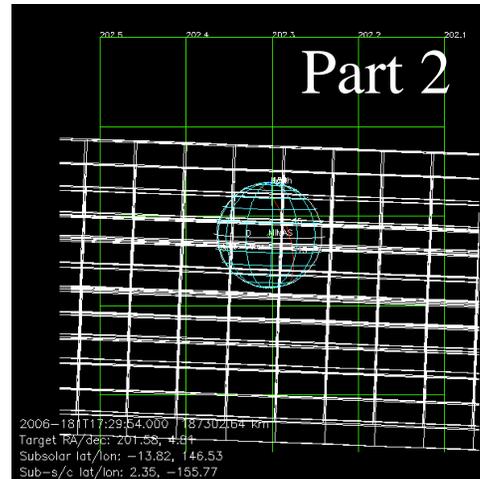
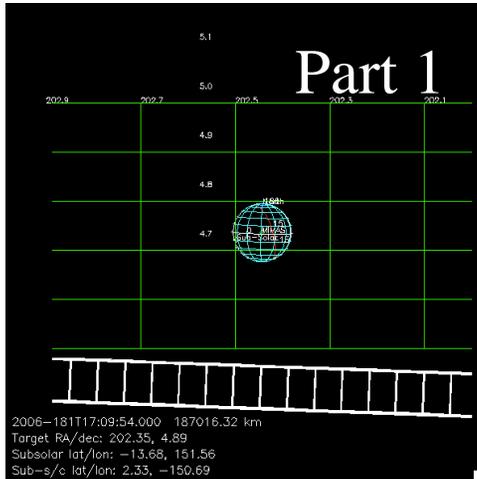
2006-181T17:10

Alt= 188,317 km

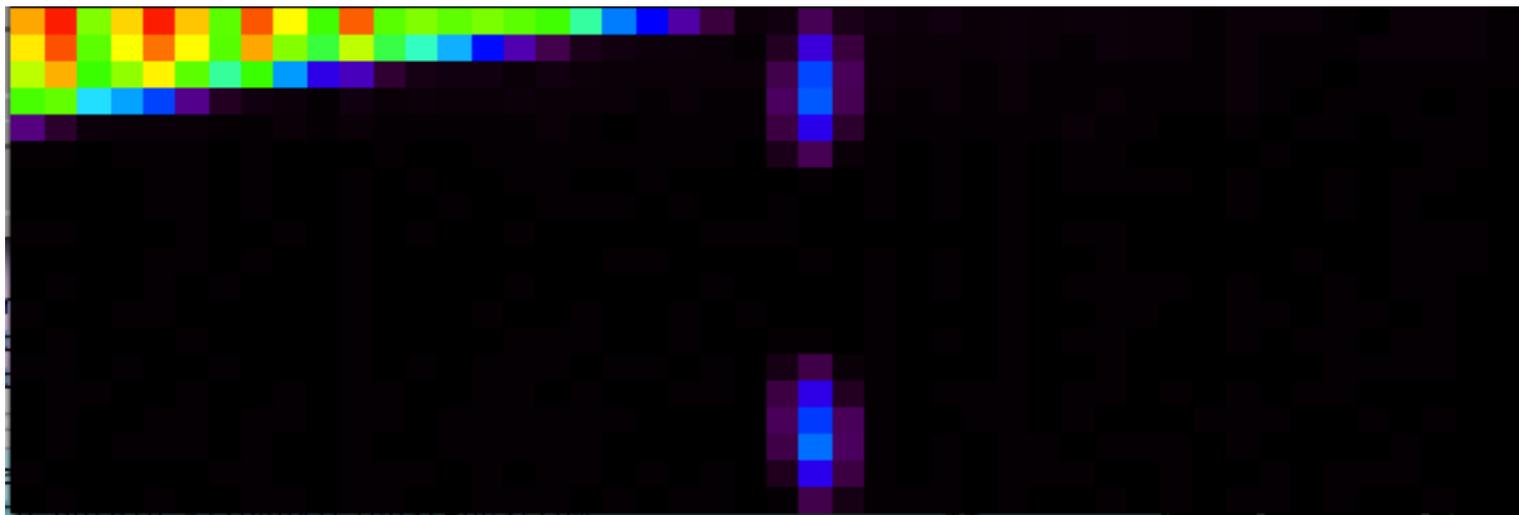
Longitude= 160°W

Latitude=2.4°N

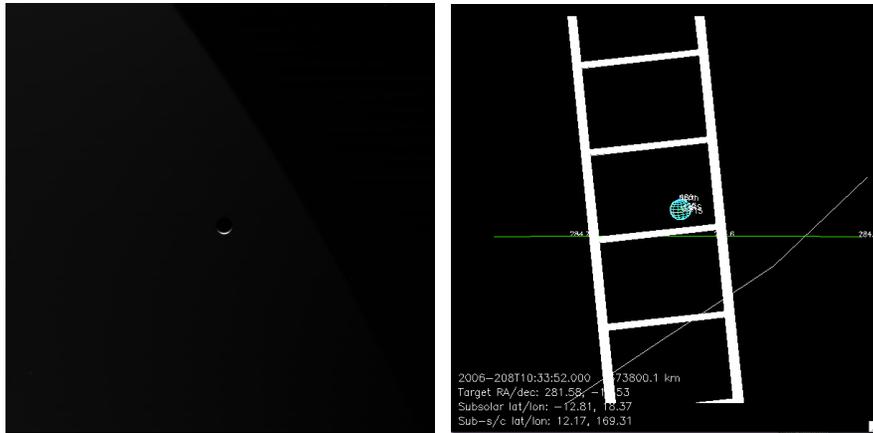
Phase= 65.5°



No ISS rider



026MI_ISS_PHOTOM007



026MI_ICYLON001_ISS

2006-208T10:34

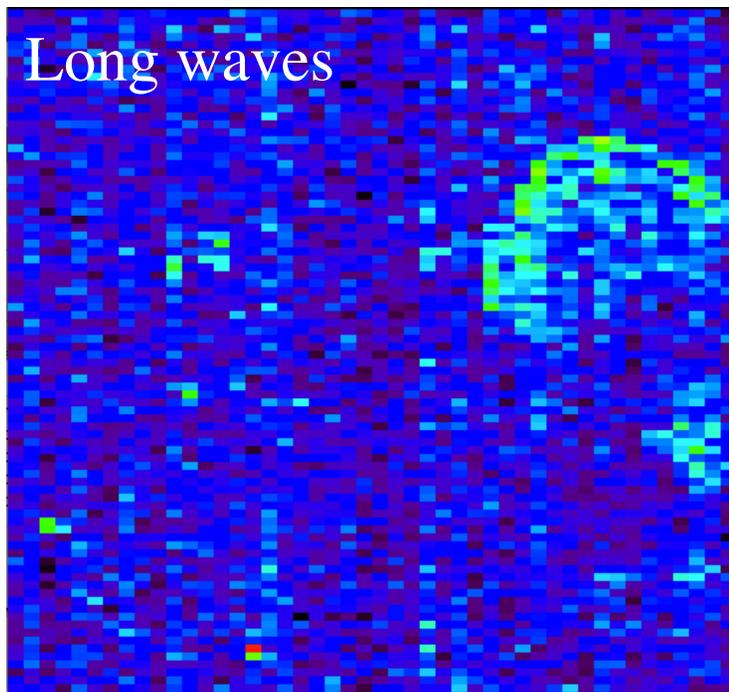
Alt= 1,723,062 km

Longitude= 213°W

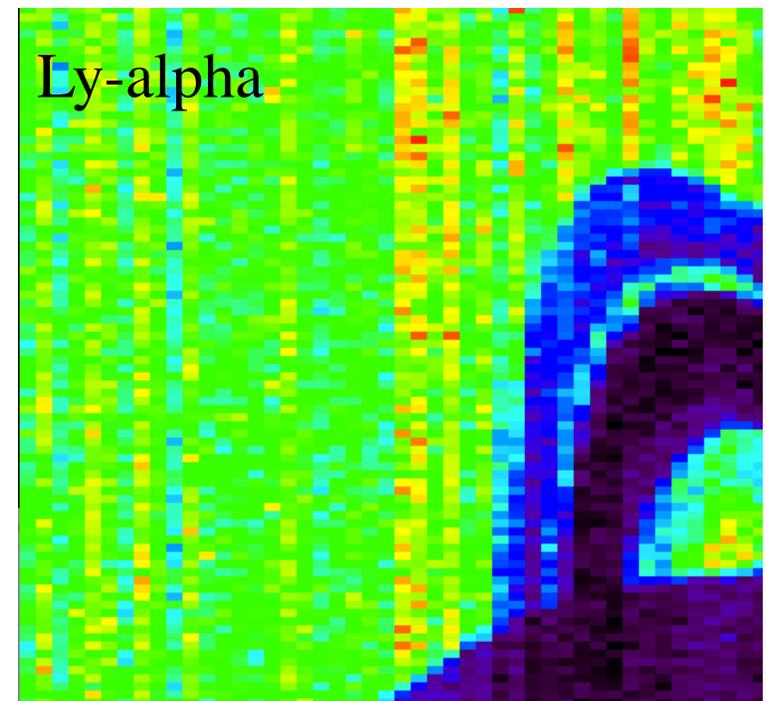
Latitude=12.3°N

Phase= 146.5°

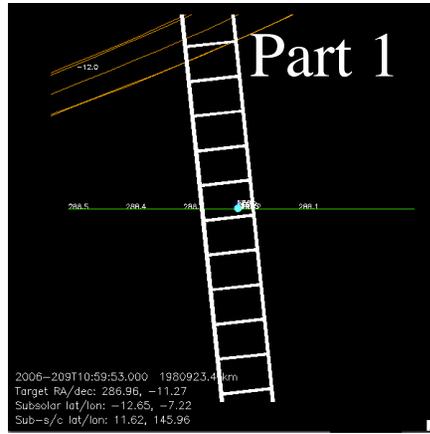
(note: the first part of this observation, at 10:05, is Dione)



rings



026MI_ISS_PHOTOM011



026MI_ICYLON002_ISS

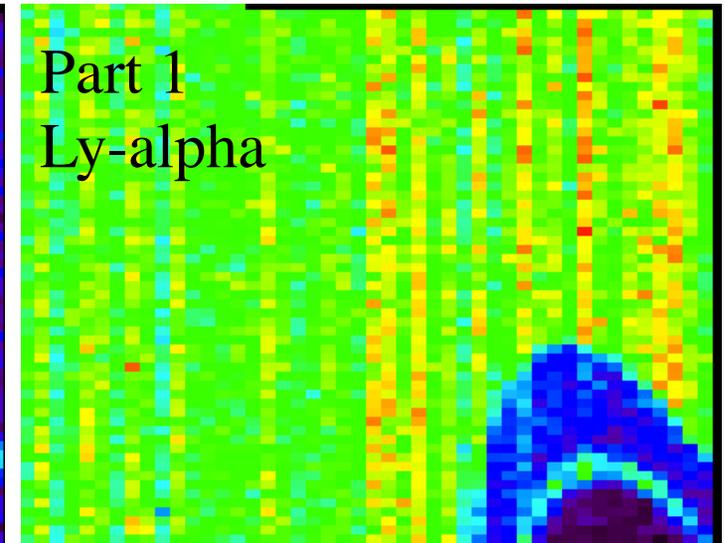
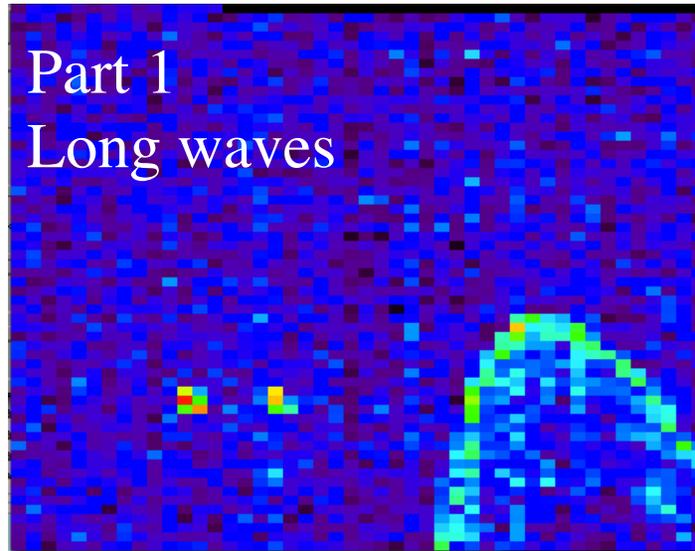
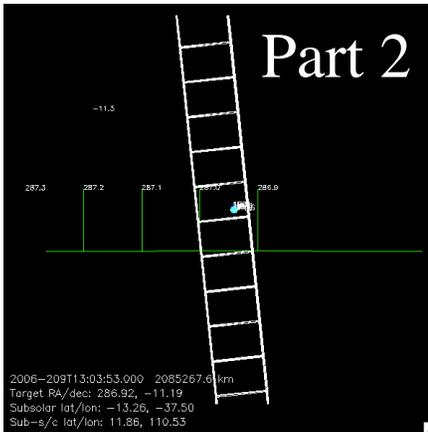
2006-209T11:00

Alt= 2,027216 km

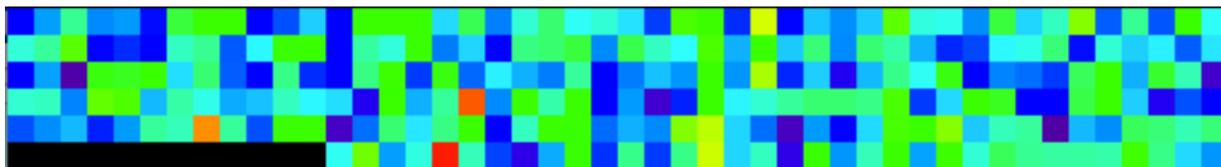
Longitude= 231°W

Latitude=11.8°N

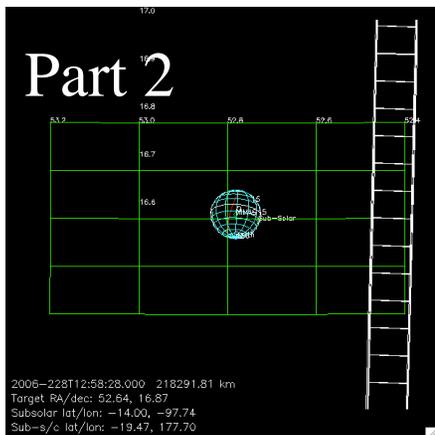
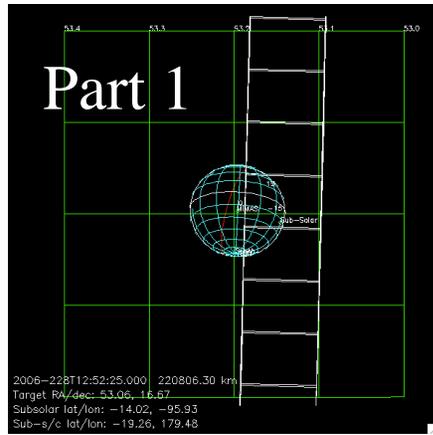
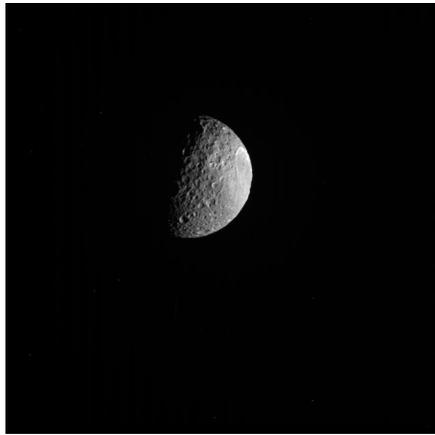
Phase= 150.7°



Part 2



027MI_MIMAS001_VIMS



027MI_ICYLON001_VIMS

2006-228T12:53

Alt= 220,178 km

Longitude= 181°W

Latitude=19.3°S

Phase= 80.3°

027MI_STARE001_PRIME

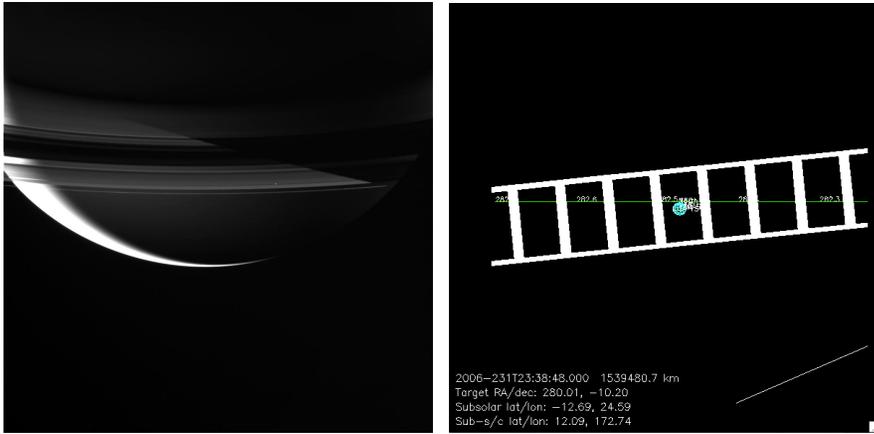
2006-231T23:39

Alt= 1,689,263 km

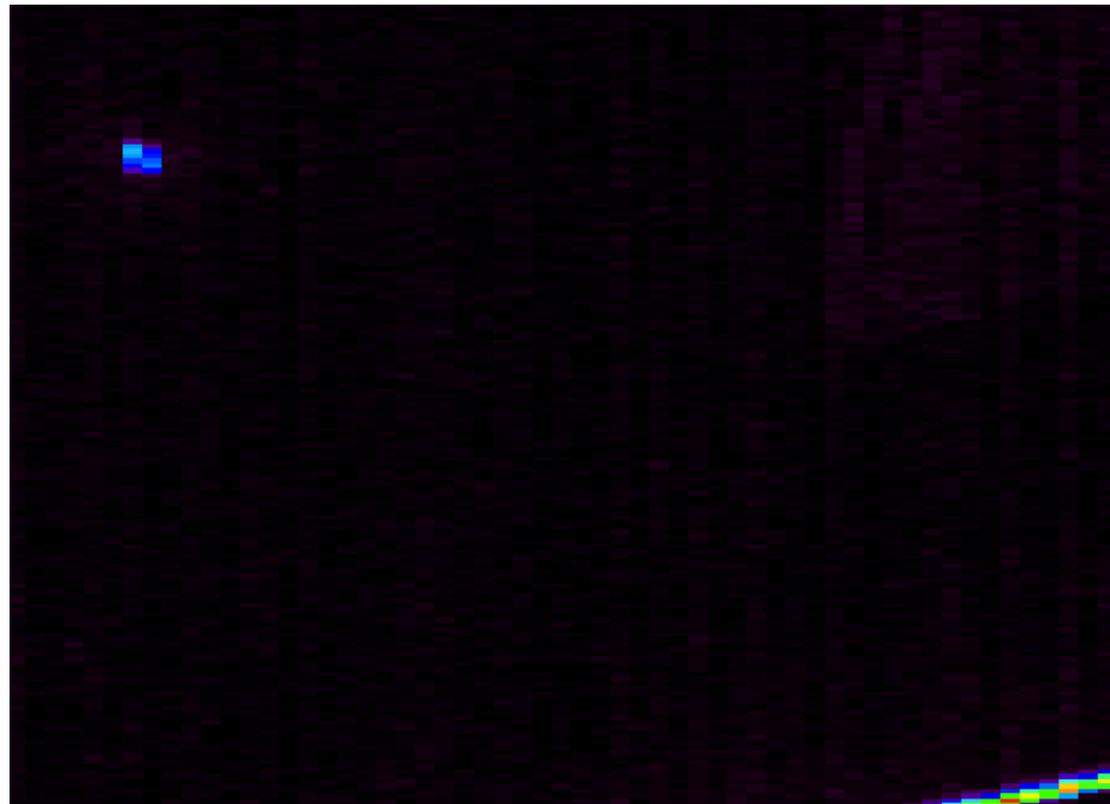
Longitude= 243°W

Latitude=12°N

Phase= 142°



WAC image

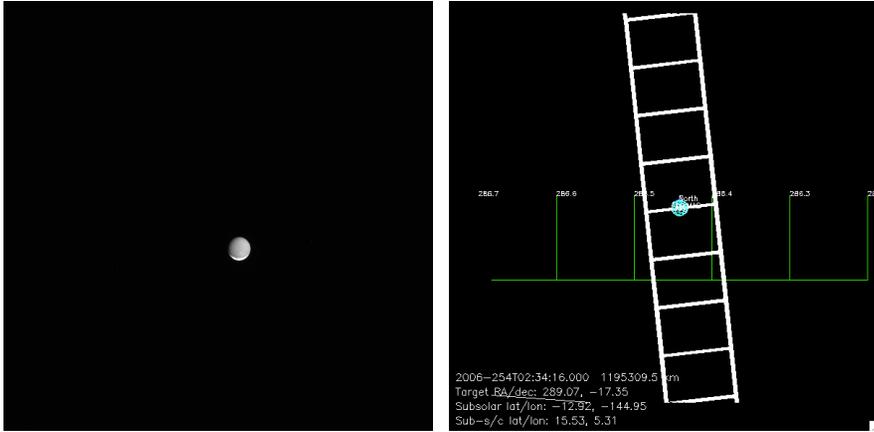


Low SNR

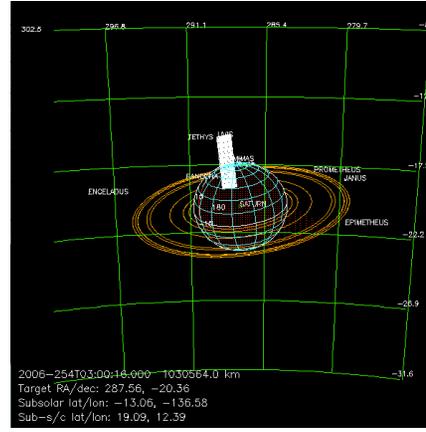
Saturn bright limb



028MI_ISS_PHOTOM001



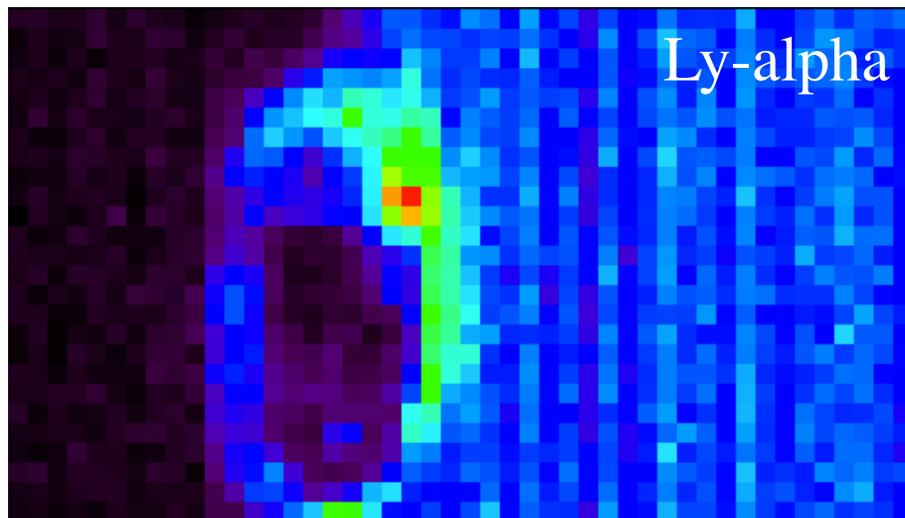
028MI_PHOTOM035_ISS



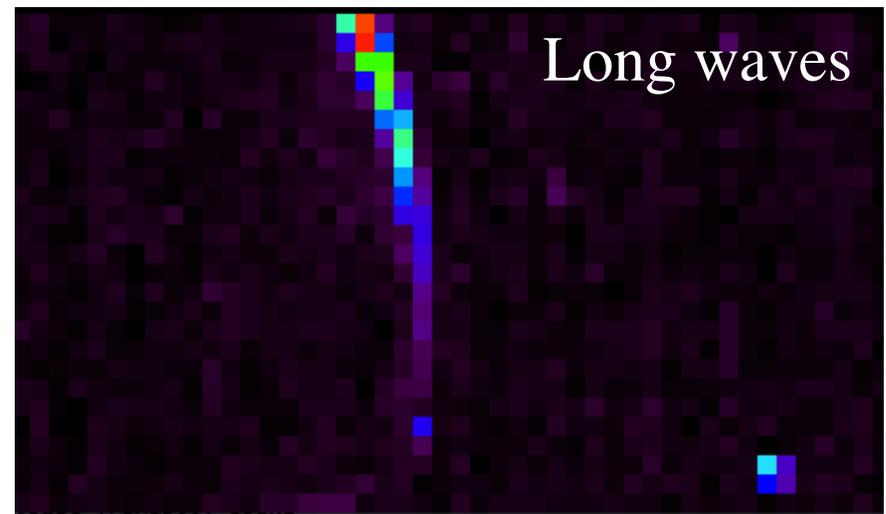
2006-254T02:35
Alt= 1,204,210 km
Longitude= 354°W
Latitude=15.5°N
Phase= 149.4°

Saturn night side

dark sky



Saturn bright limb



033MI_ICYLON001_ISS

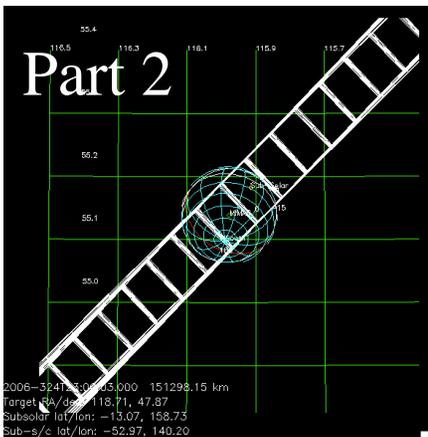
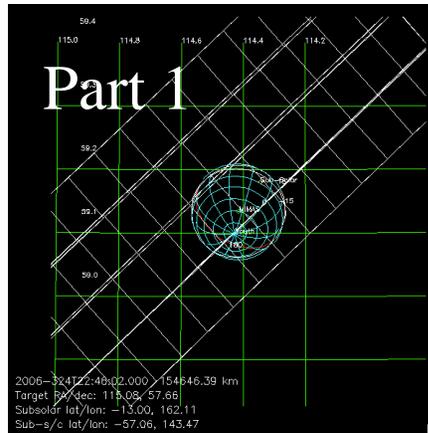
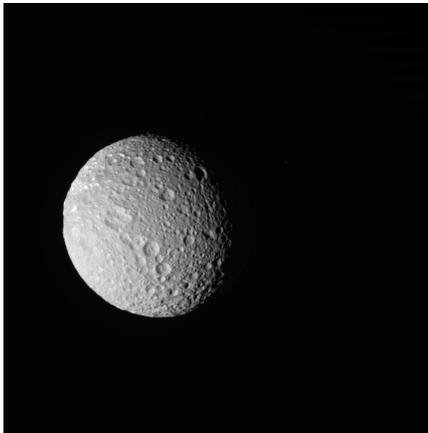
2006-324T22:47

Alt= 153,678 km

Lon= 217°W

Latitude=56.2°S

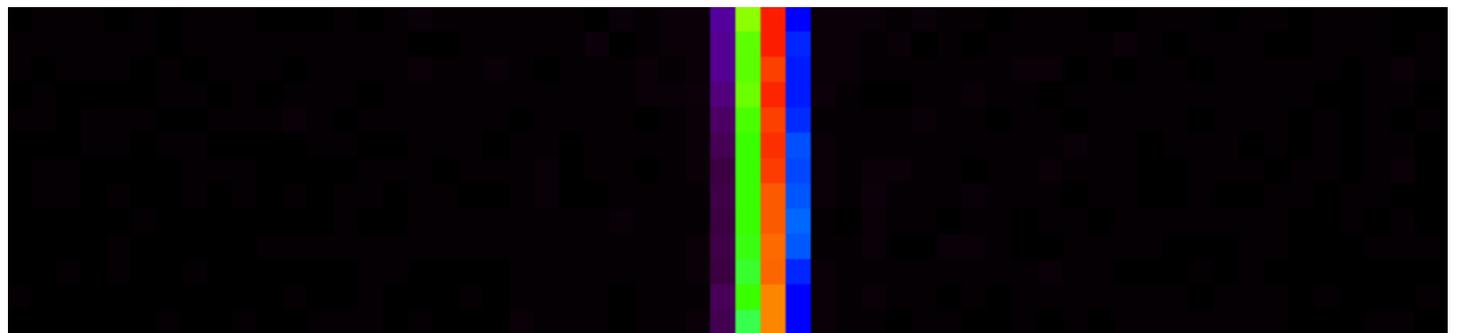
Phase= 46.6°



Part 1



Part 2



034MI_STARE001_ISS

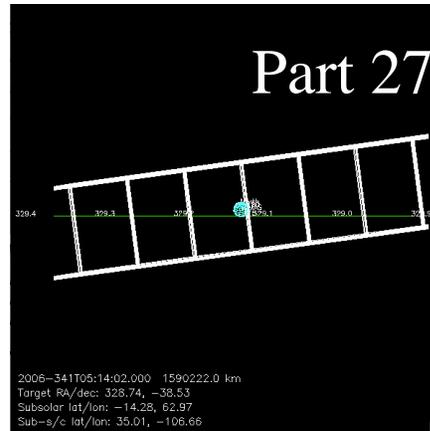
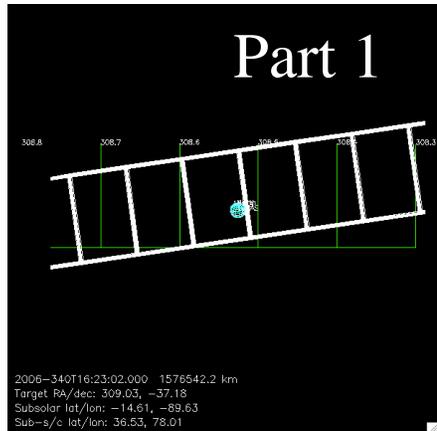
2006-340T16:24

Alt= 1,587,053 km

Lon= 286 - 112°W

Latitude=36°N

Phase= 155.7°

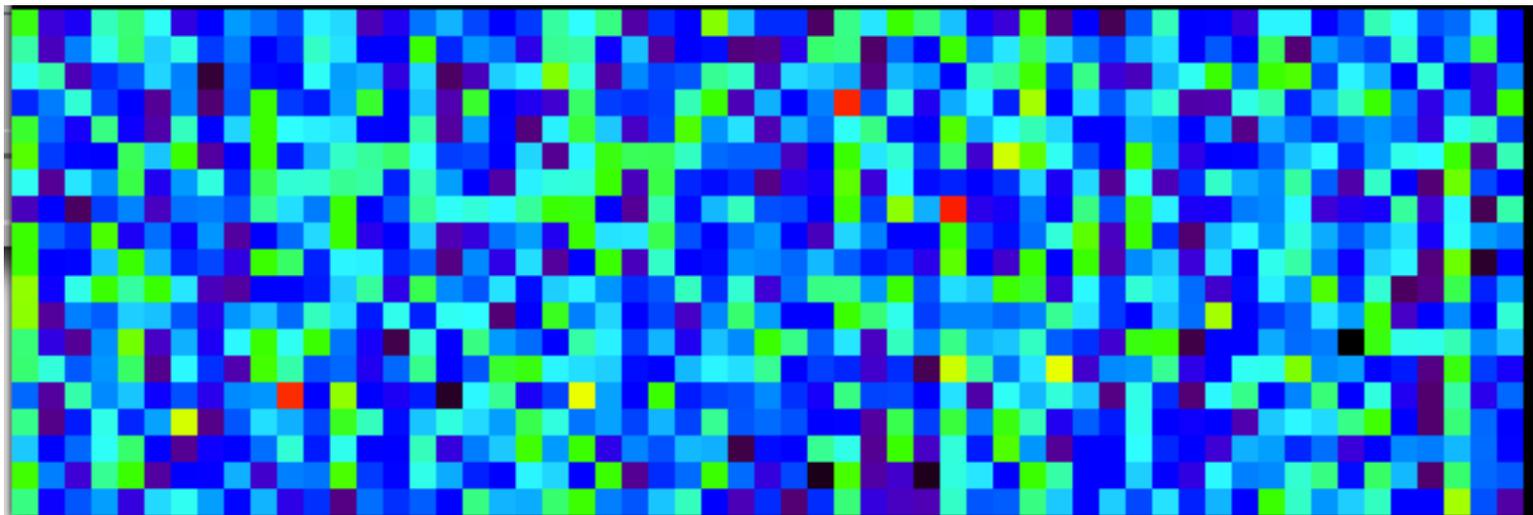


27-part obs

No ISS rider

Low SNR

Part 27



CIRS_045MI_MIMASX001_PRIME

045MI_ICYLON001_CIRS

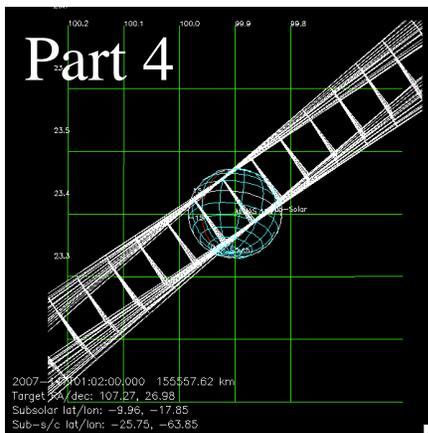
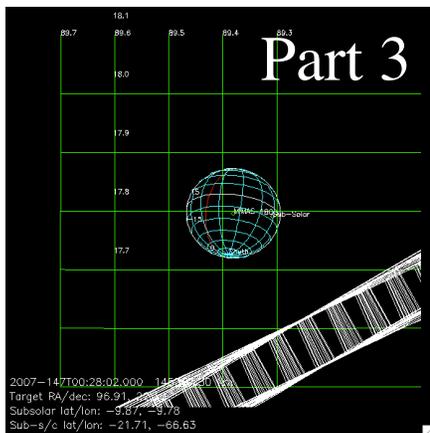
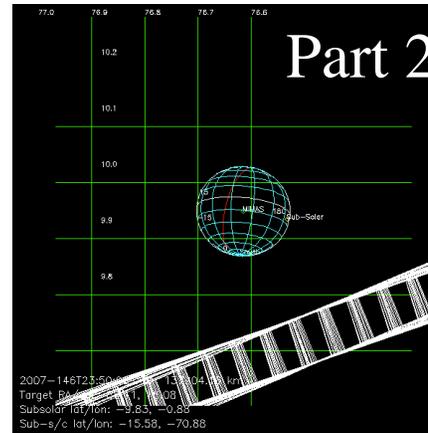
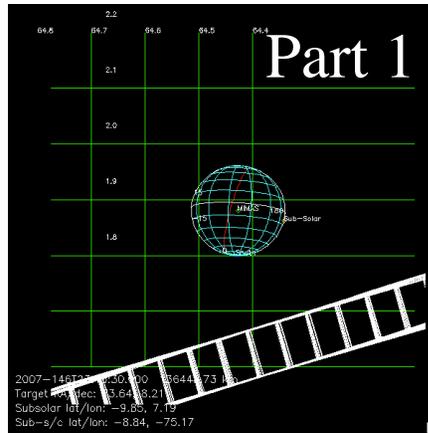
2007-146T23:16

Alt= 159,813 km

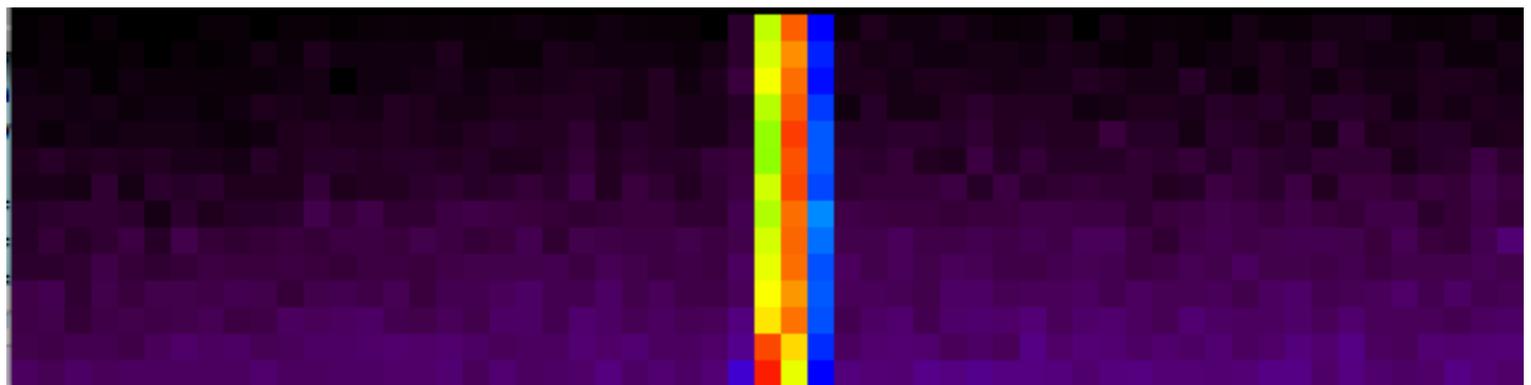
Longitude= 63°W

Latitude=27°S

Phase= 43°

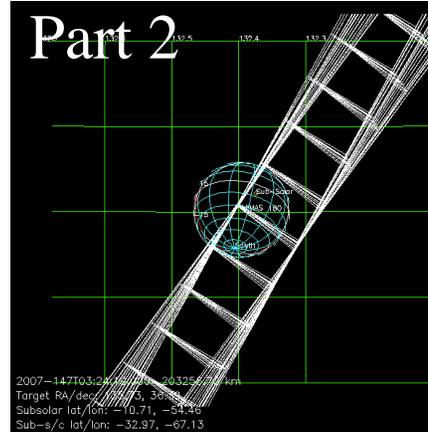
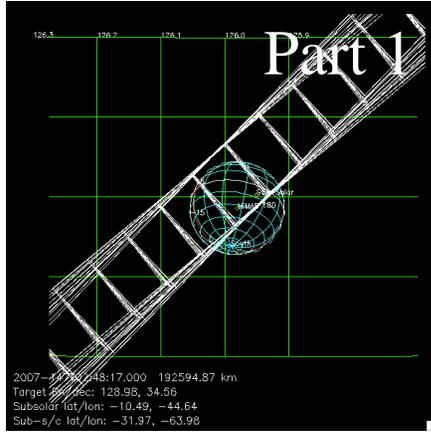
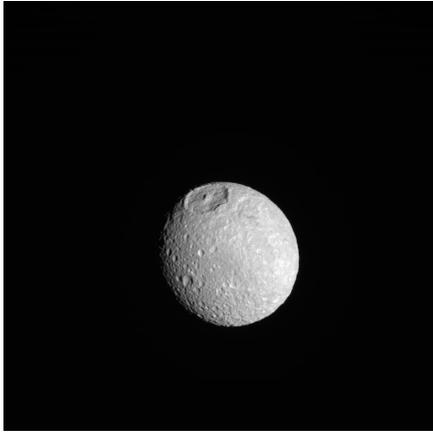


Part 4

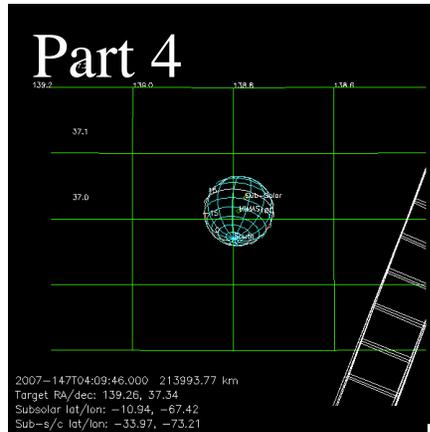
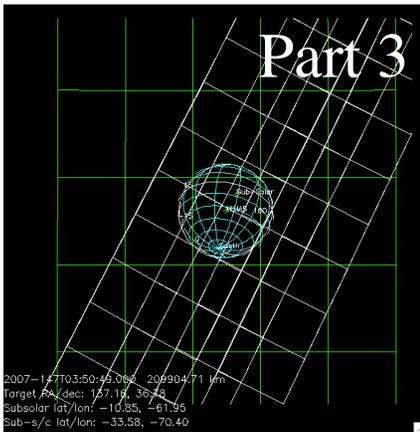


CIRS_045MI_MIMAS002_PRIME

045MI_ICYLON002_CIRS



2007-147T02:42
Alt= 194,897 km
Longitude= 65°W
Latitude=32°S
Phase= 27.2°



Part 3



045MI_ICYLON003_PRIME

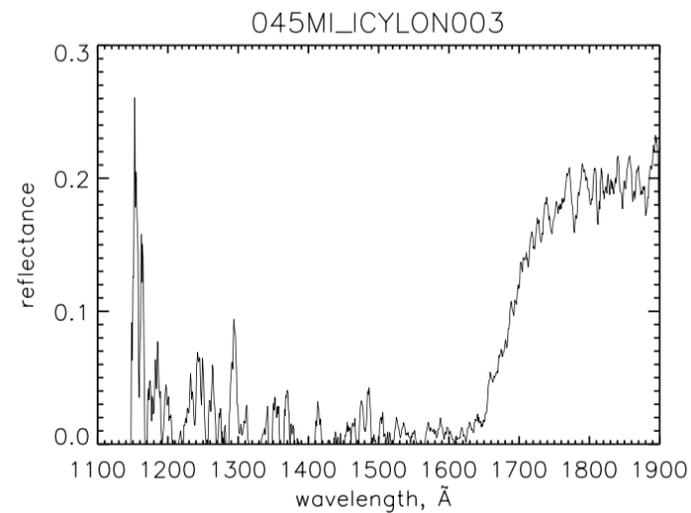
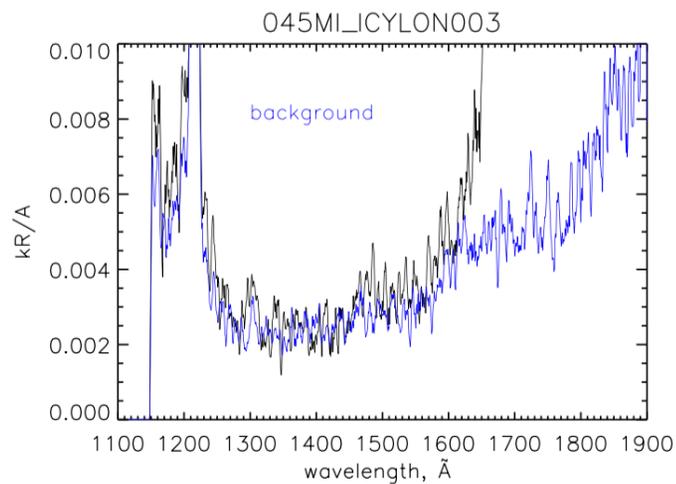
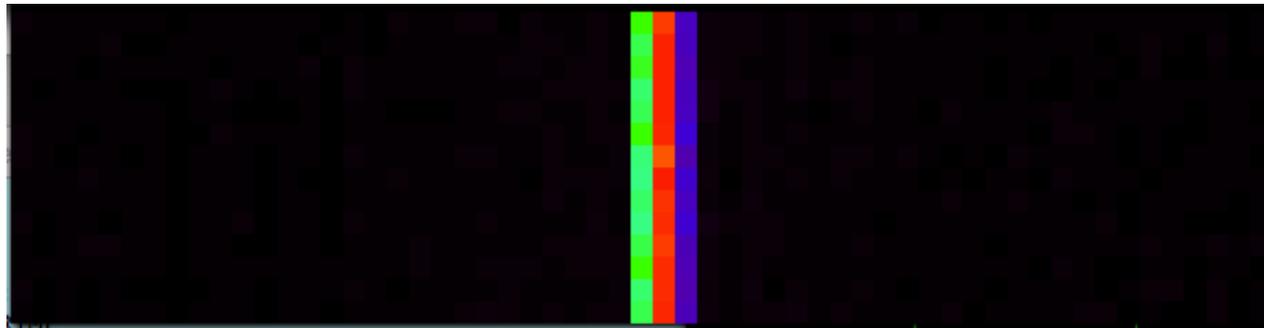
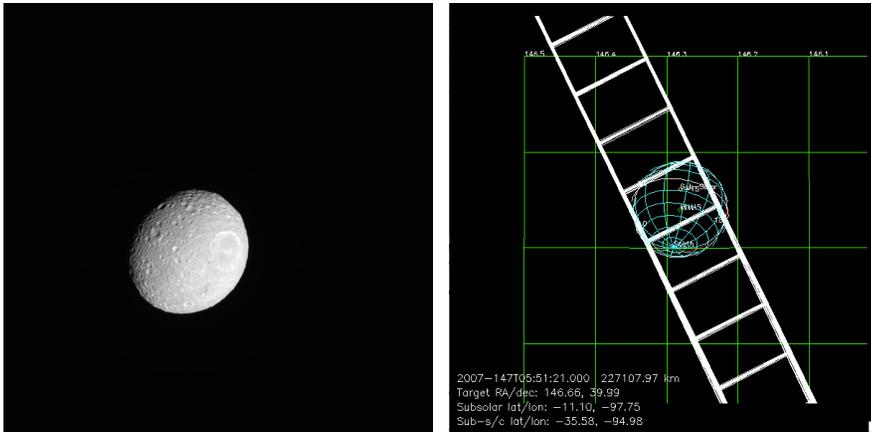
2007-147T05:52

Alt= 227,720 km

Longitude= 99°W

Latitude=35.7°S

Phase= 25.6°

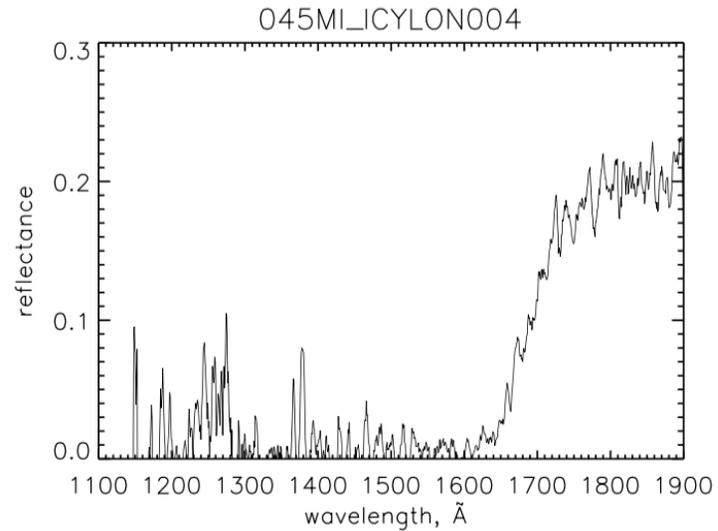
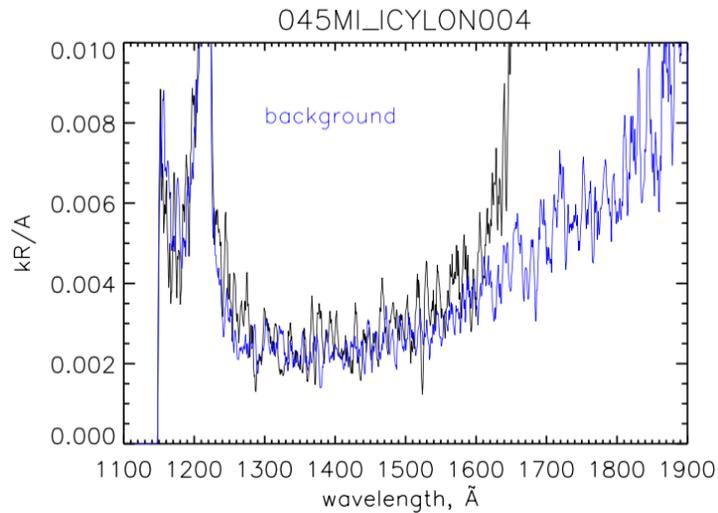
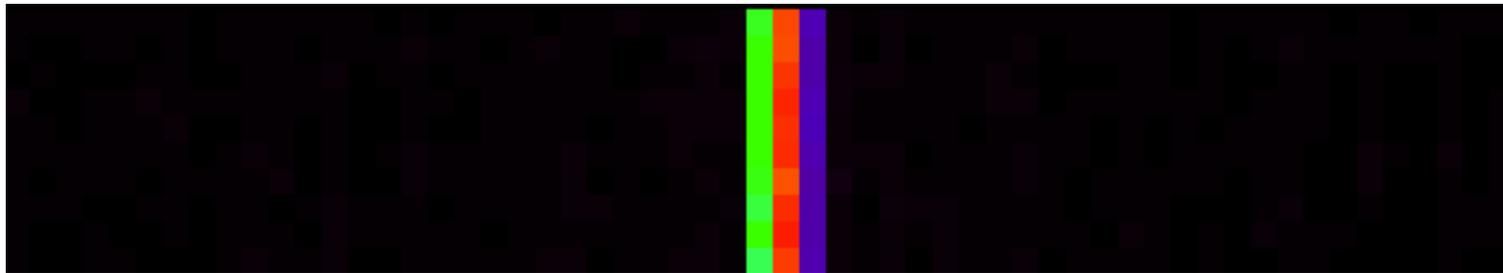


VIMS_045MI_MIMAS002_PRIME



045MI_ICYLON004_VIMS

2007-147T06:26
Alt= 229,246 km
Longitude= 107°W
Latitude=35.8°S
Phase= 25.9°



045MI_ICYLON005_PRIME

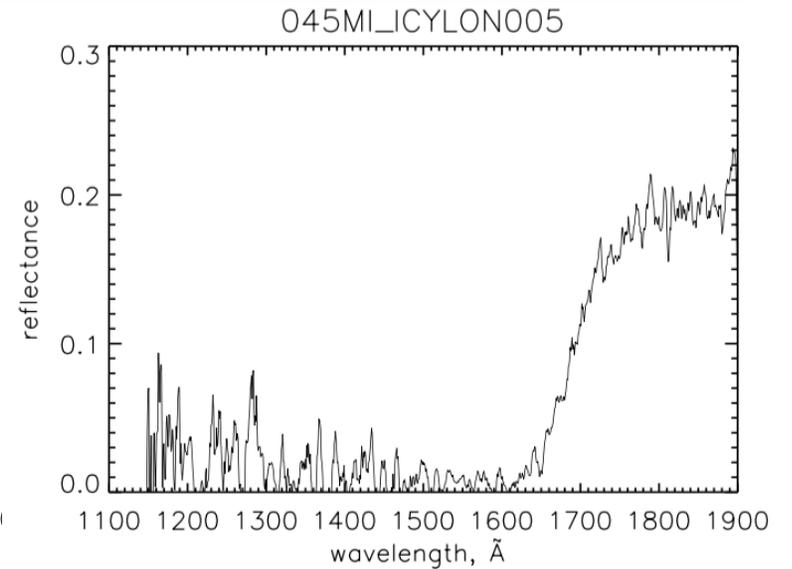
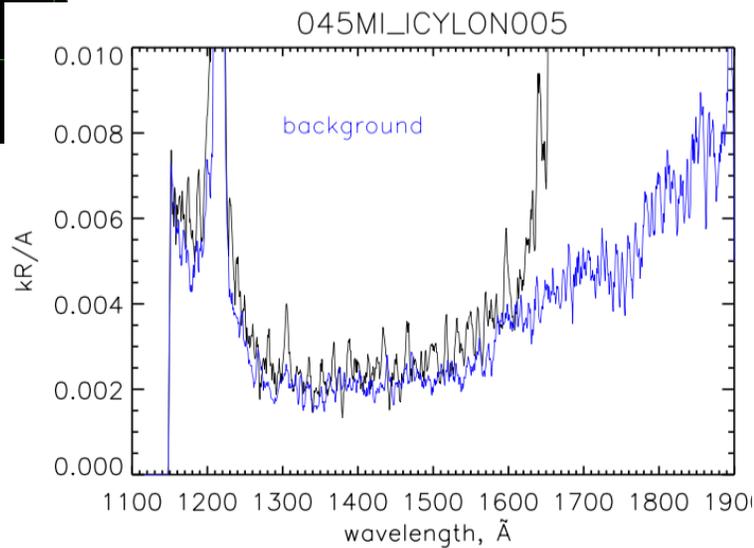
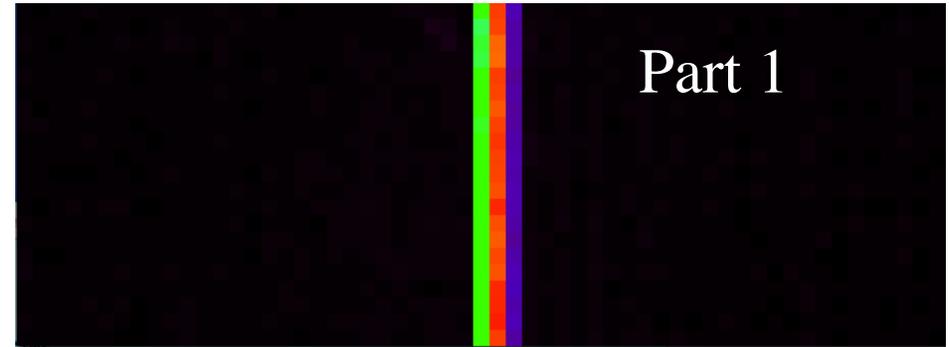
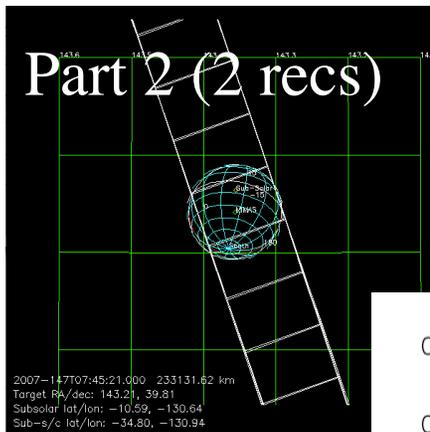
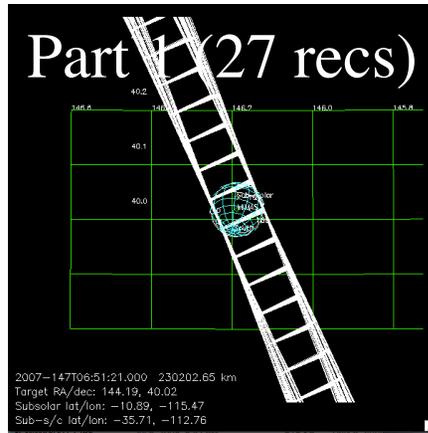
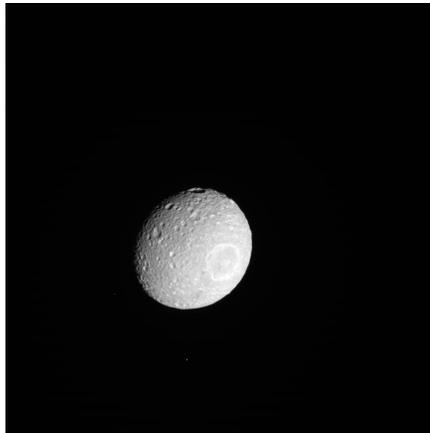
2007-147T06:52

Alt= 230,995 km

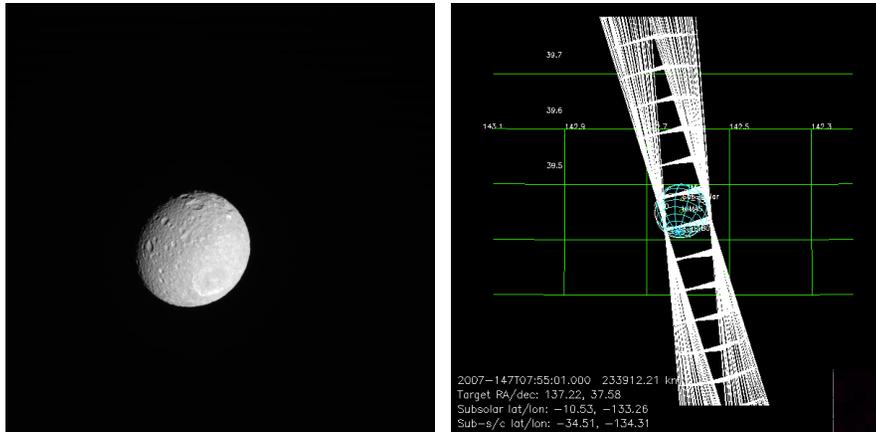
Longitude=120°W

Latitude=35.5°S

Phase= 26°



VIMS_045MI_MIMAS003_PRIME



045MI_ICYLON006_VIMS

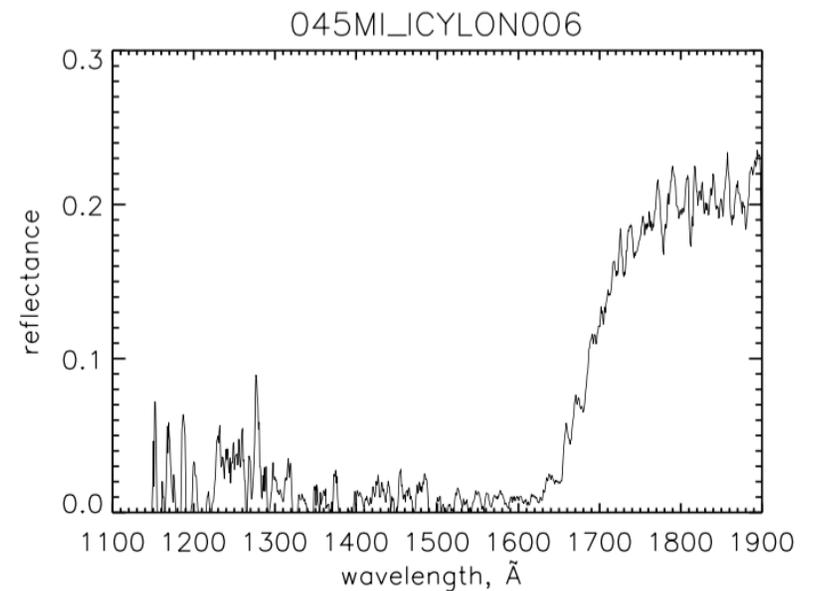
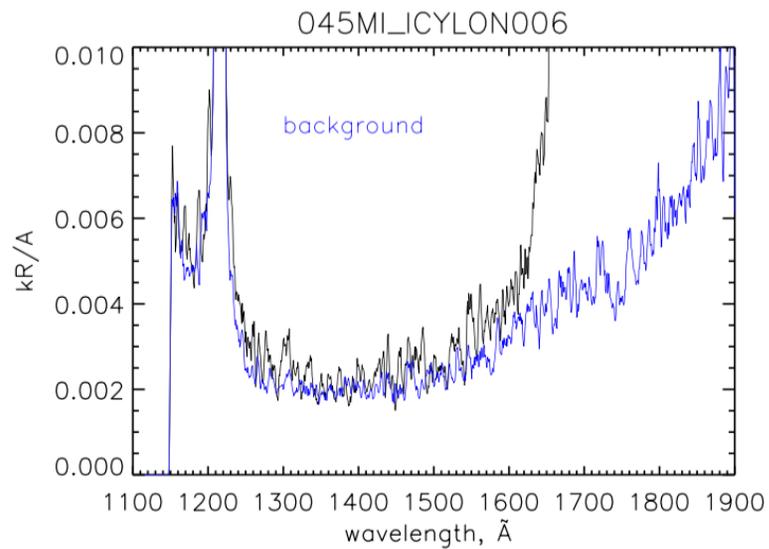
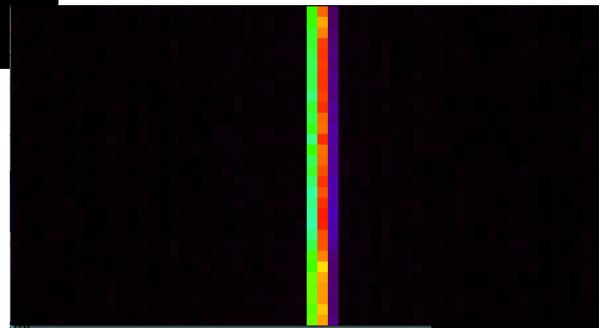
2007-147T07:56

Alt=237,181 km

Longitude= 145°W

Latitude=33.4°S

Phase= 25.5°



045MI_ICYLON007_PRIME

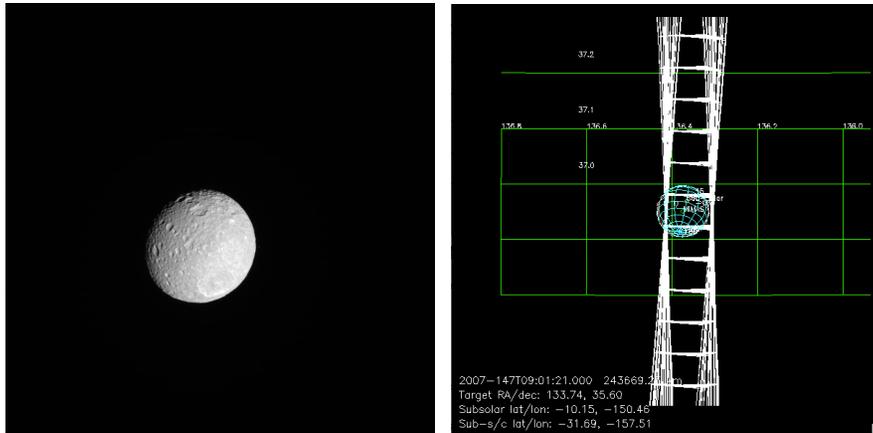
2007-147T09:02

Alt= 246,682 km

Longitude= 162°W

Latitude=31°S

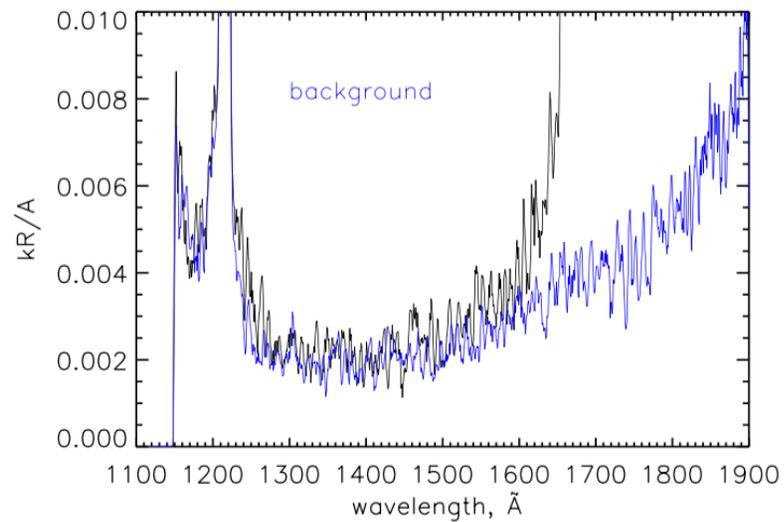
Phase= 25°



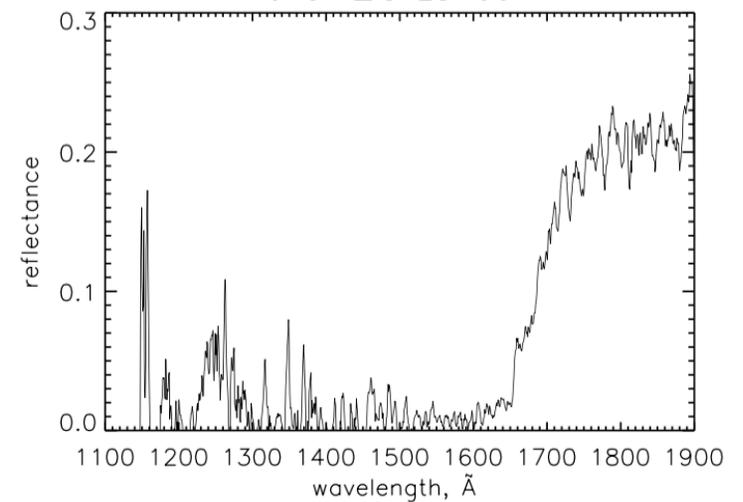
2007-147T09:01:21.000 243669.2 km
Target RA/dec: 133.74, 35.60
Subsolar lat/lon: -10.15, -150.48
Sub-s/c lat/lon: -31.69, -157.51



045MI_ICYLON007



045MI_ICYLON007



046MI_ICYLON001_ISS

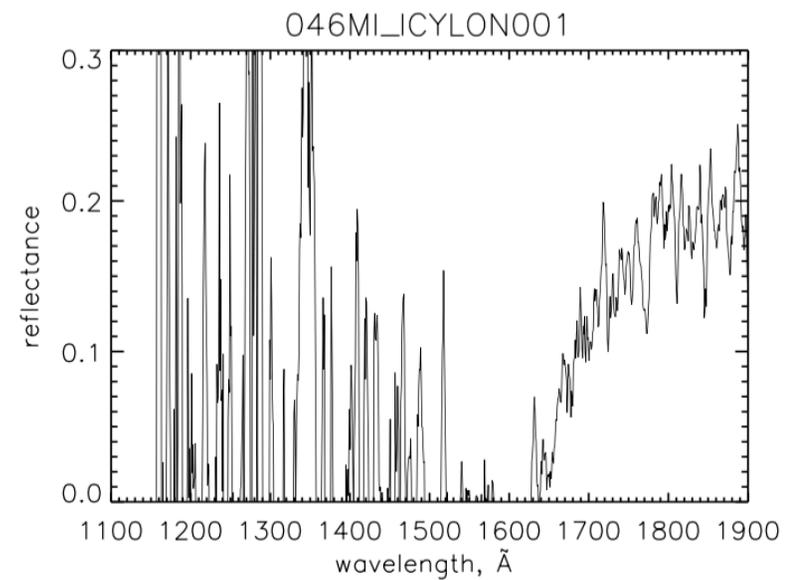
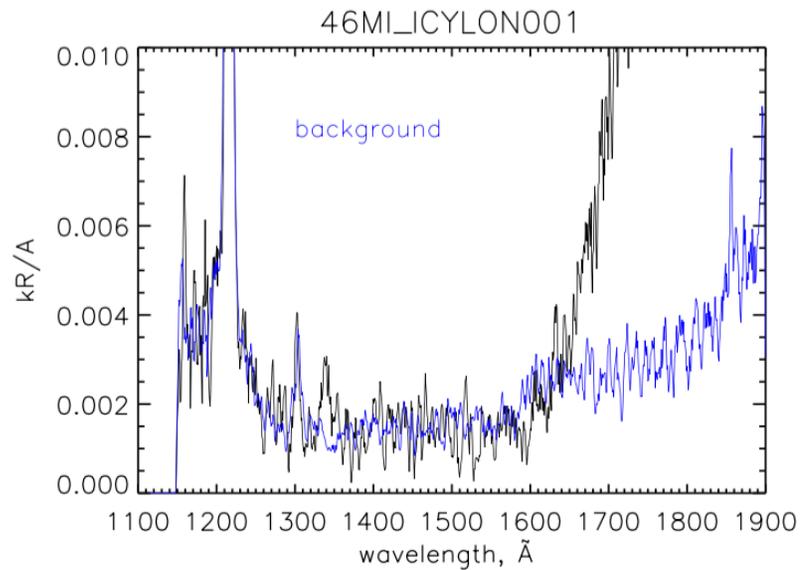
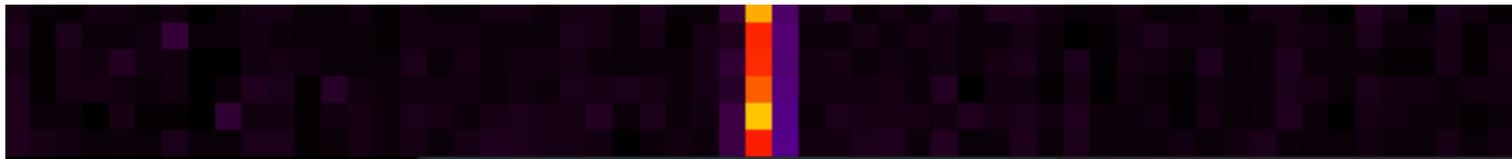
2007-163T16:40

Alt= 616,276 km

Longitude= 277°W

Latitude=5.7°S

Phase= 15.3°



047MI_ICYLON001_ISS

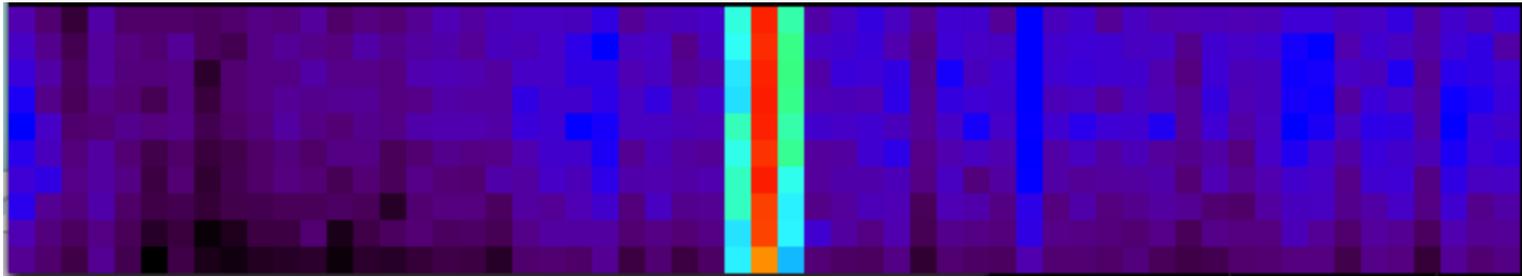
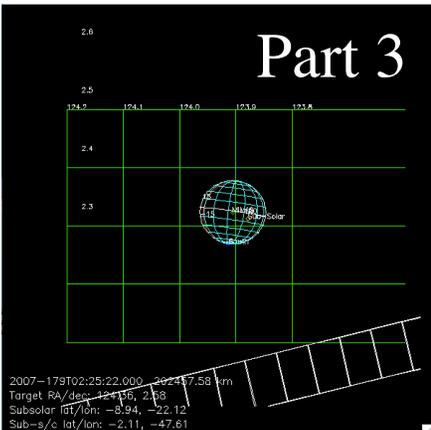
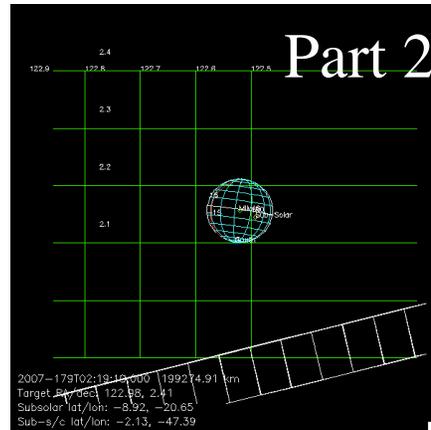
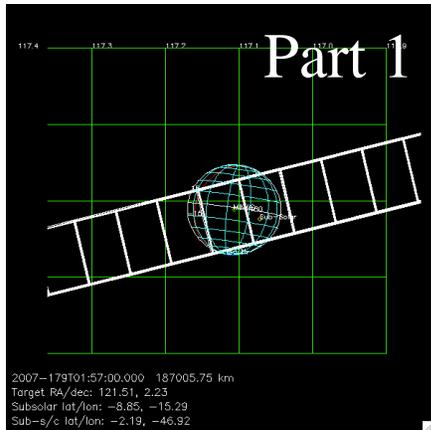
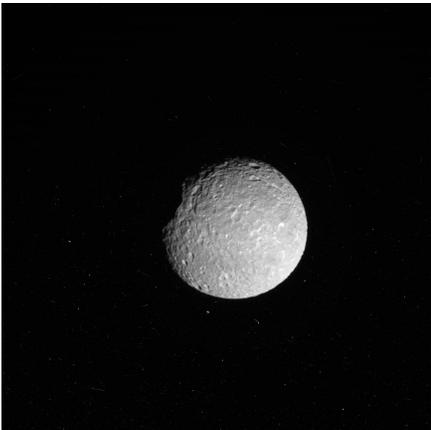
2007-179T01:58

Alt= 191,820 km

Longitude=47°W

Latitude=2°S

Phase=31.8°



051MI_GLOCOLB001_ISS

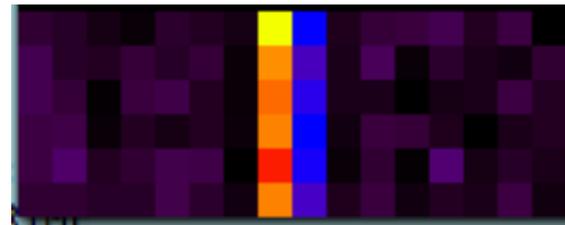
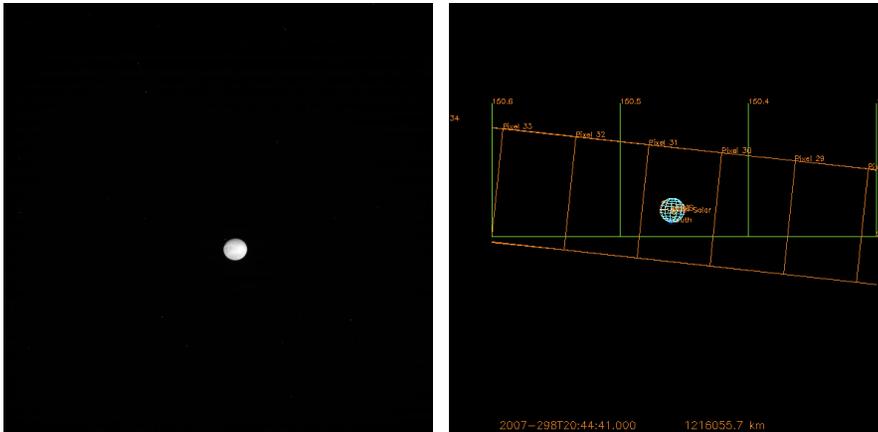
2007-298T20:45

Alt= 1,214,266 km

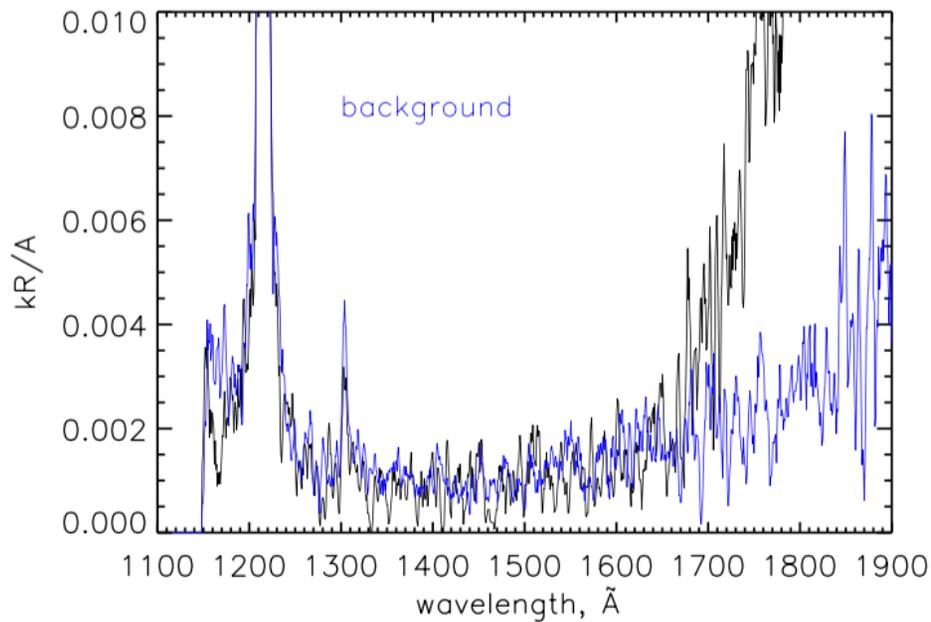
Longitude=50°W

Latitude=0.4°S

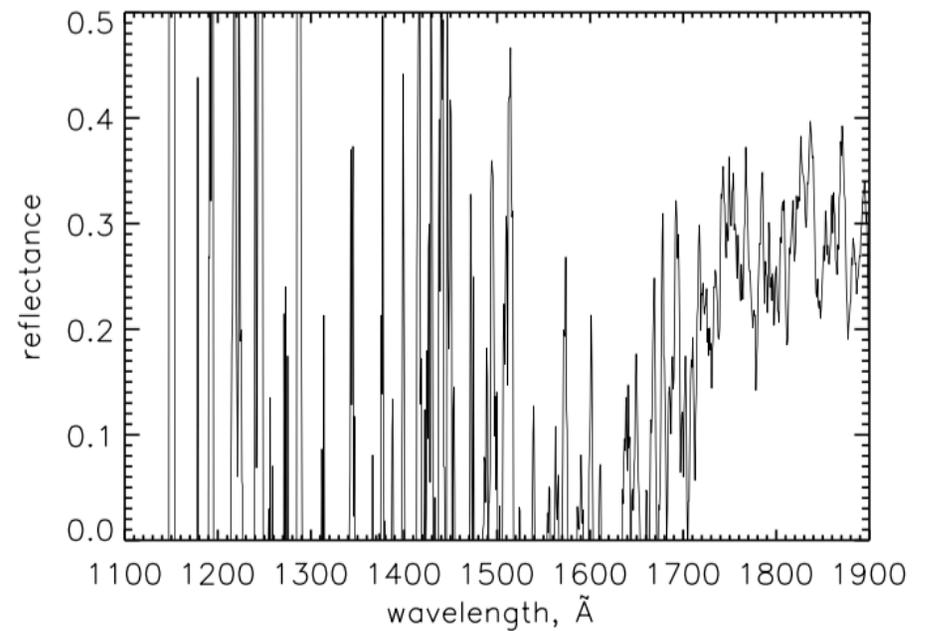
Phase=10.3°



051MI GLOCOLB001



051MI_GLOCOLB001



051MI_094W010PH001_ISS

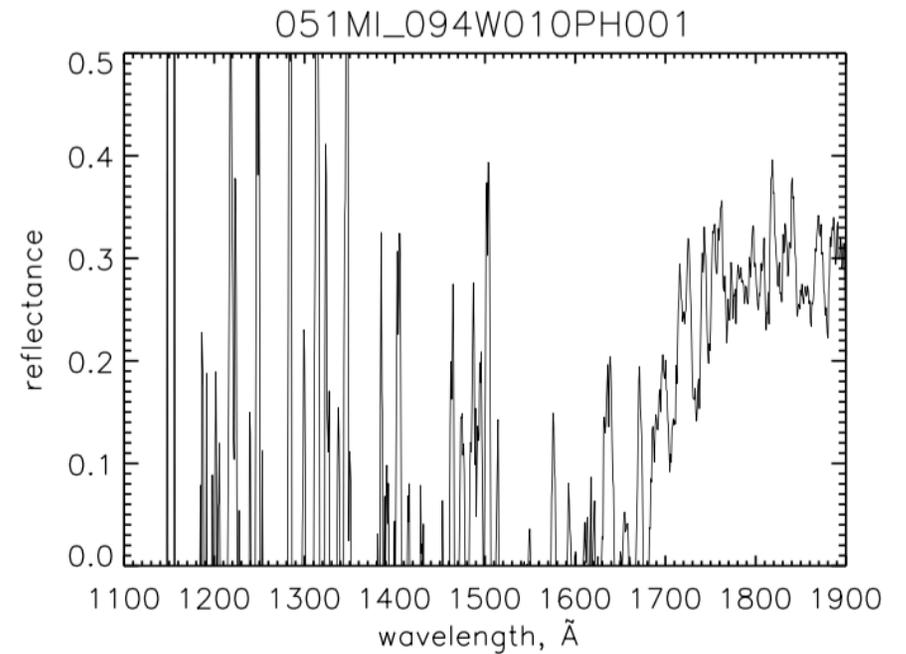
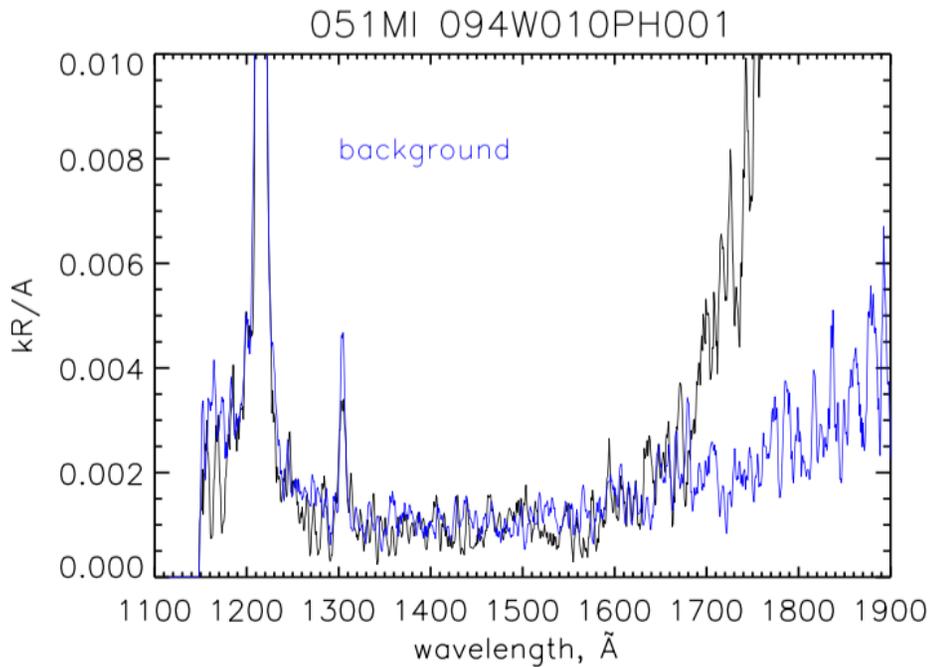
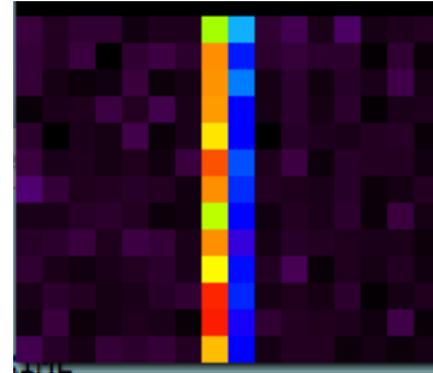
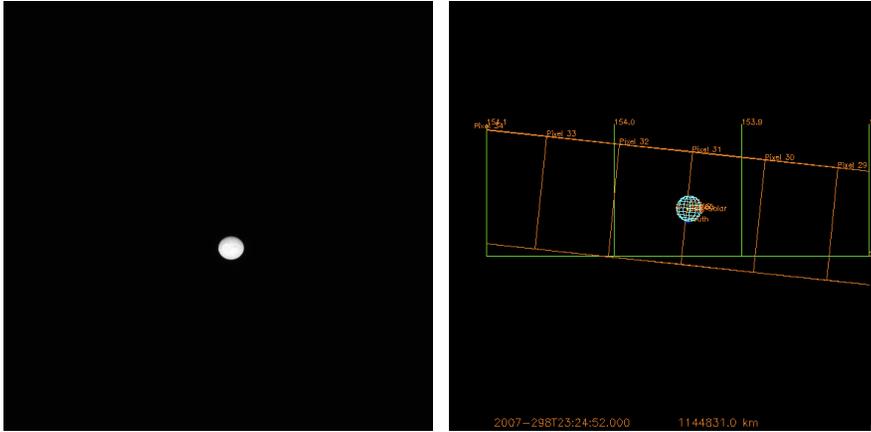
2007-298T23:25

Alt= 1,138,400 km

Longitude=95°W

Latitude=0.3°S

Phase=9.8°



051MI_166W011PH001_ISS

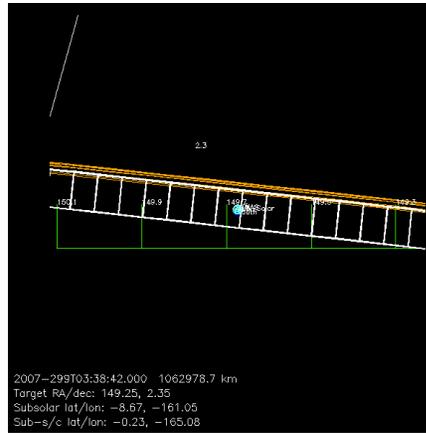
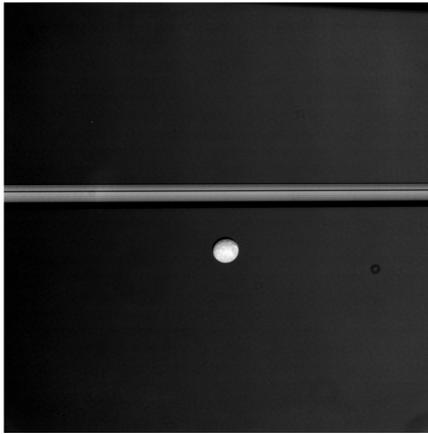
2007-299T03:39

Alt= 1,063,296 km

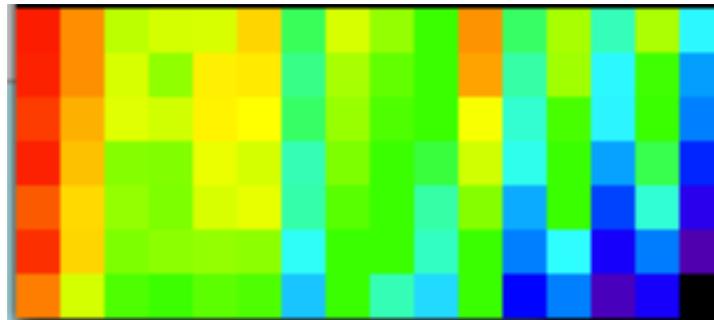
Longitude=167°W

Latitude=0.2°S

Phase=10.9°



Mimas is in front of Saturn



051MI_310W014PH001_ISS

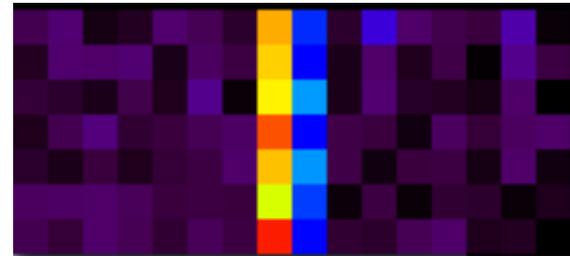
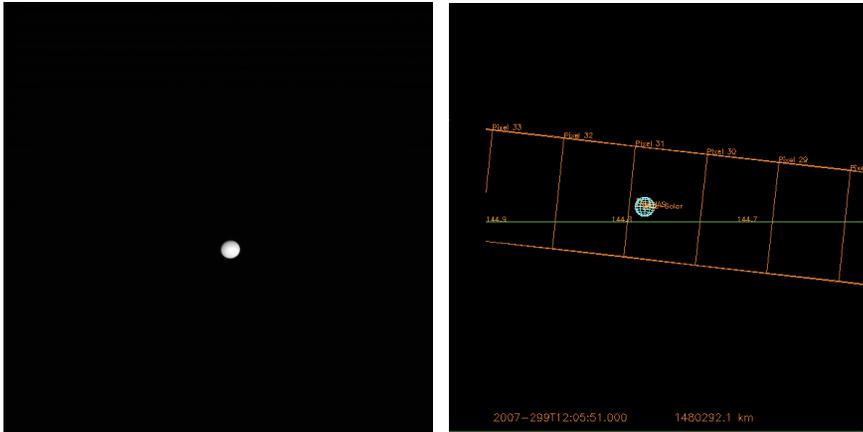
2007-299T12:06

Alt= 1,485,935 km

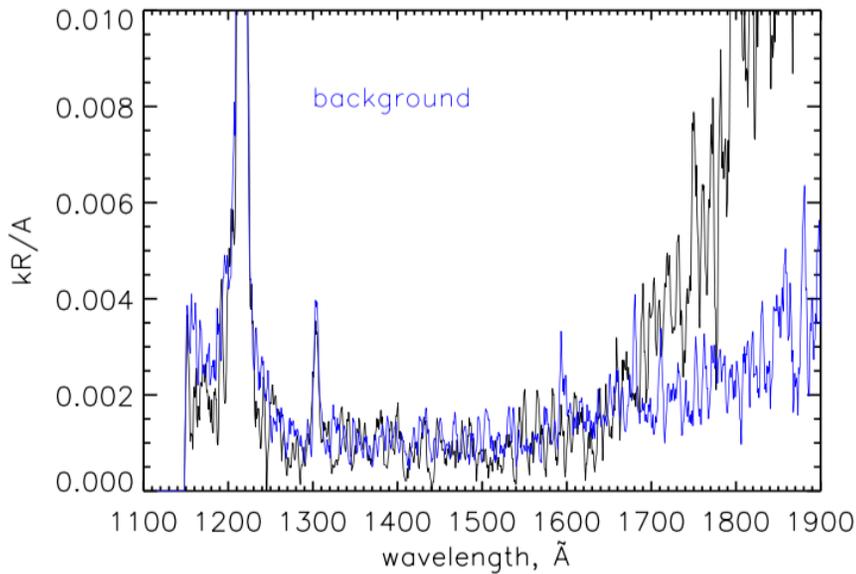
Longitude=308°W

Latitude=0°N

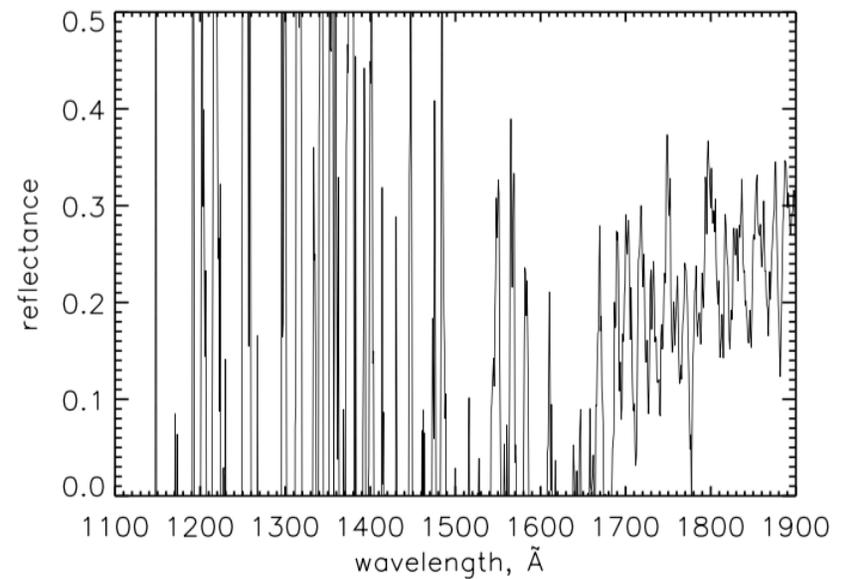
Phase=13.7°



051MI 310W014PH001



051MI_310W014PH001



051MI_022W01PH001_ISS

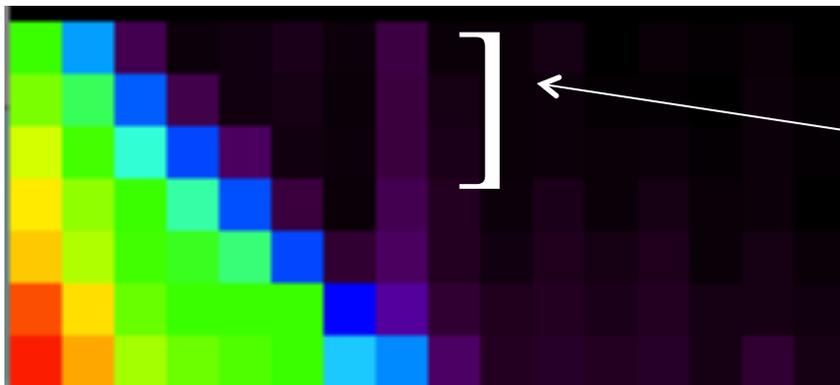
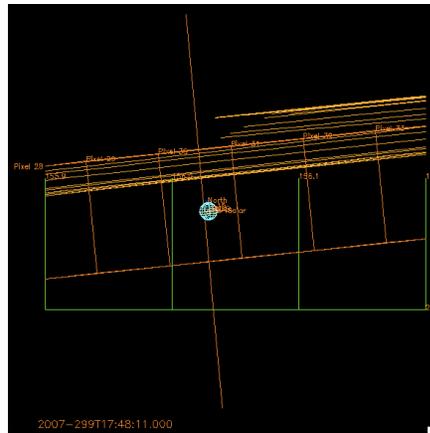
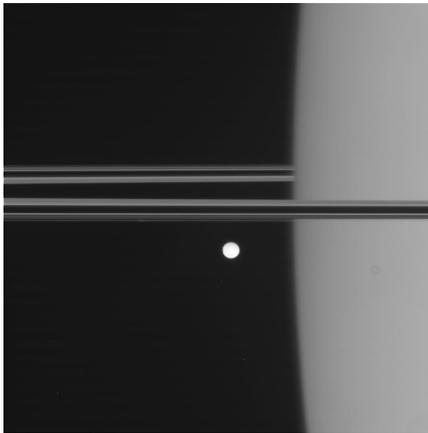
2007-299T17:49

Alt= 1,659,645 km

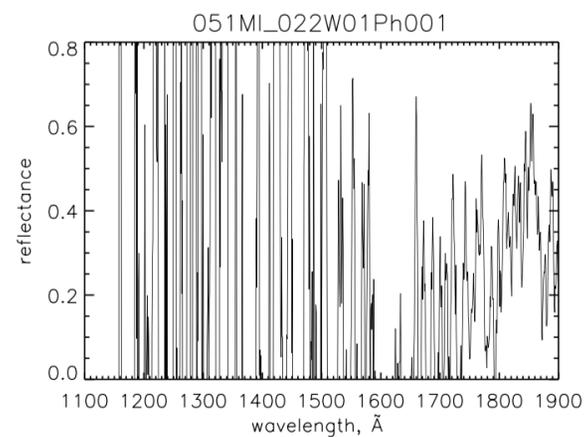
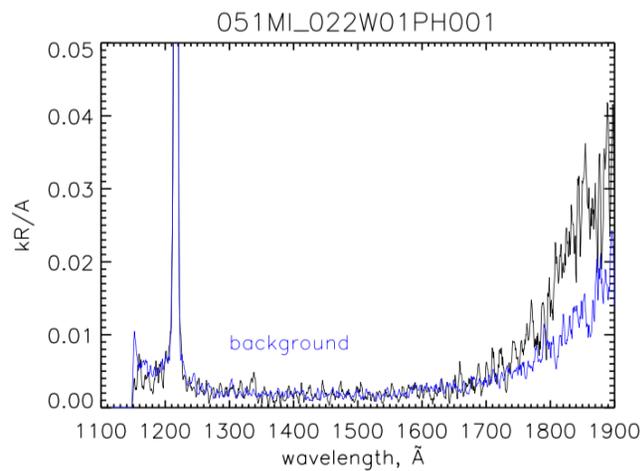
Longitude=21°W

Latitude=0.1°N

Phase=10.5°



Try to pull out a Mimas reflectance spectrum using these records but background is still high and spectrum is pretty ratty ...



051MI_094W017PH001_ISS

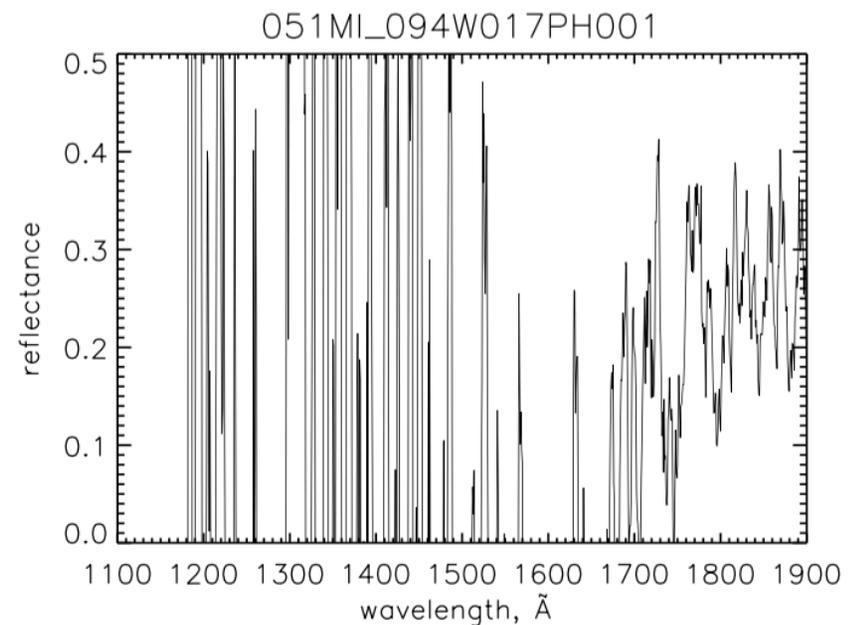
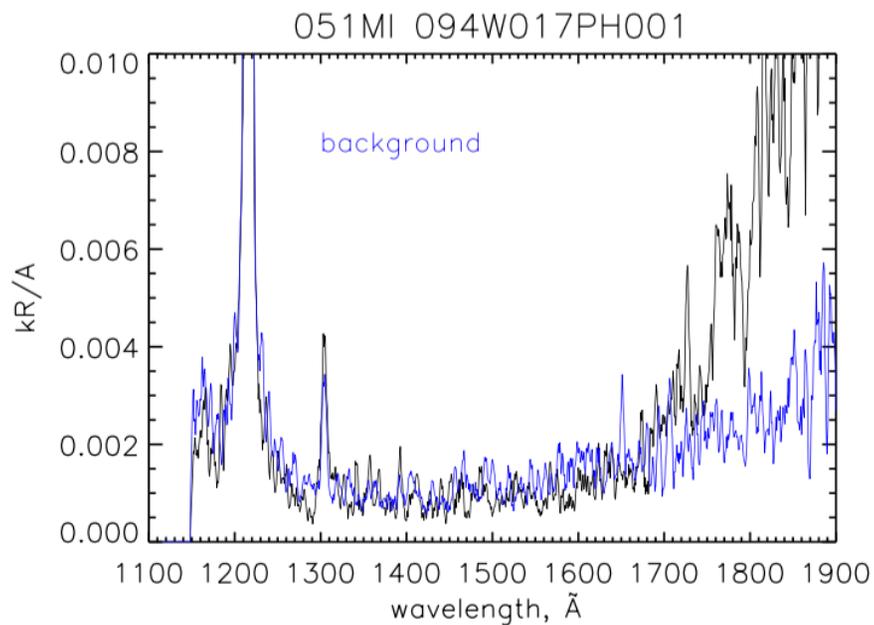
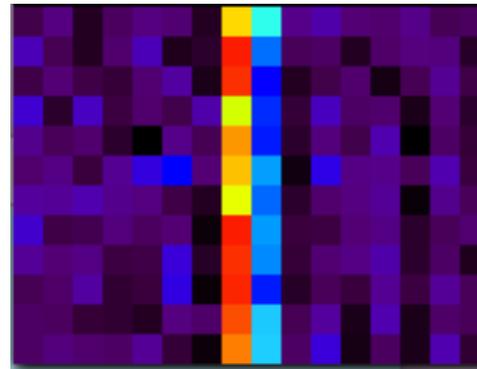
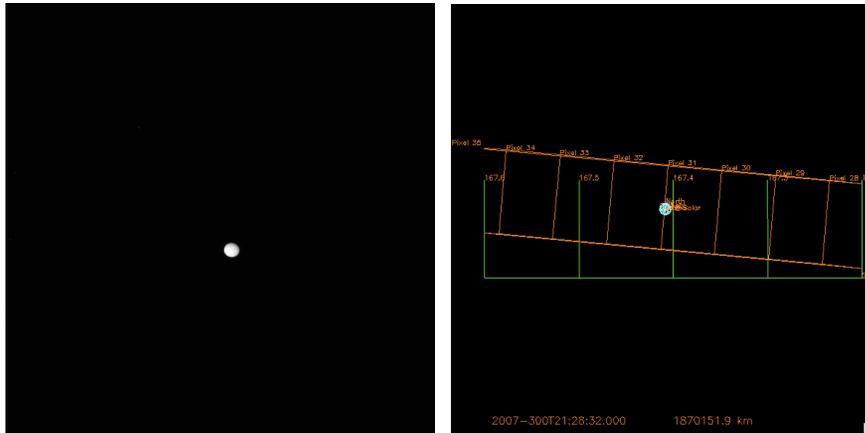
2007-300T21:29

Alt= 1,862,754 km

Longitude=95°W

Latitude=0.6°N

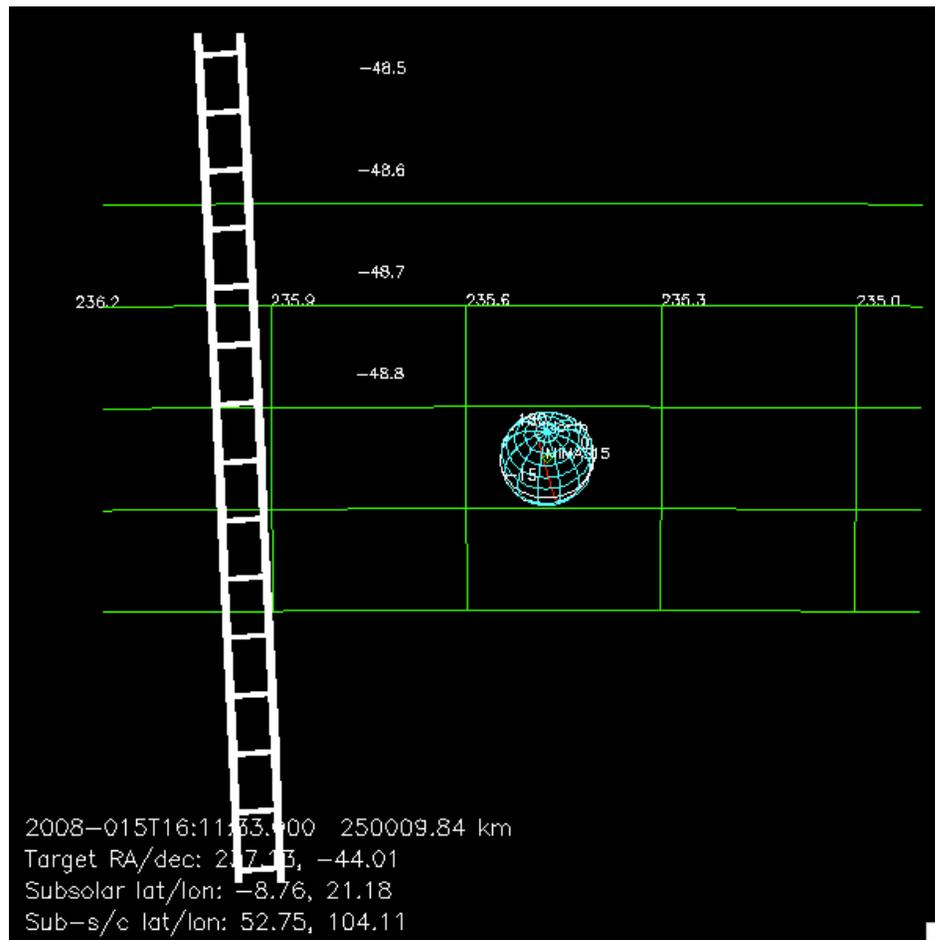
Phase=17.0°



056MI_ICYLON001_VIMS
2008-015T16:12

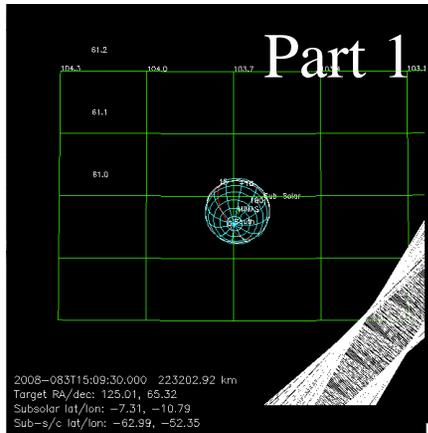
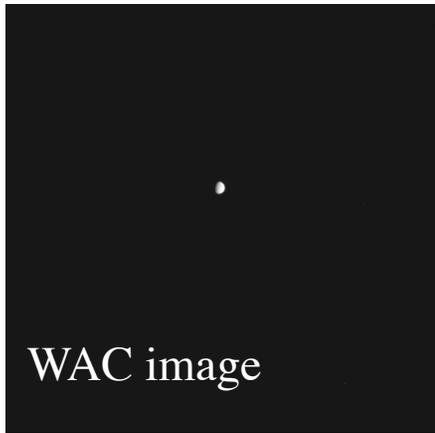
(no ISS rider)

Uses 30-sec integration period



Mimas not in UVIS slit

CIRS_062MI_FP1SECLX001



062MI_ICYLON002_CIRS

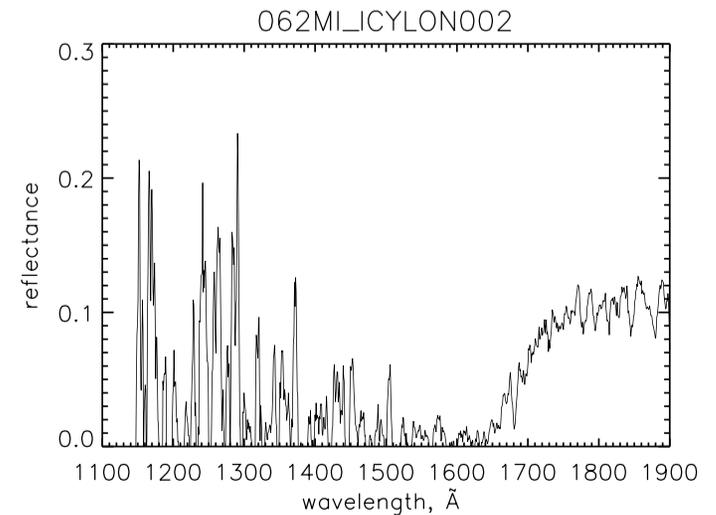
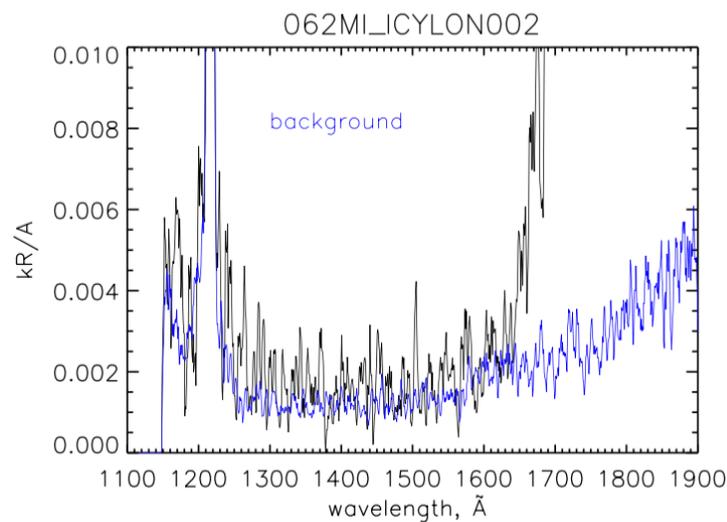
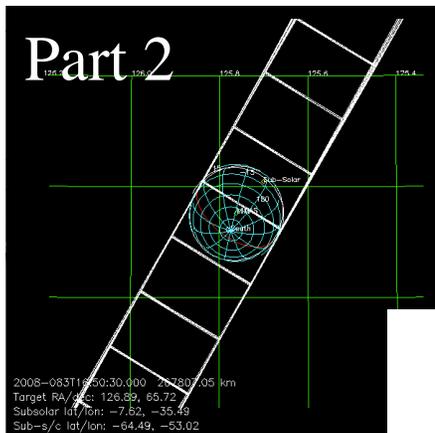
2008-083T15:10

Alt= 269,046 km

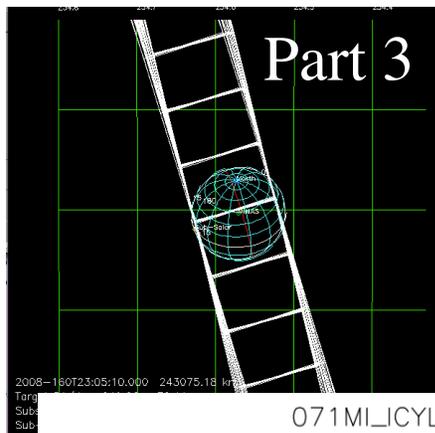
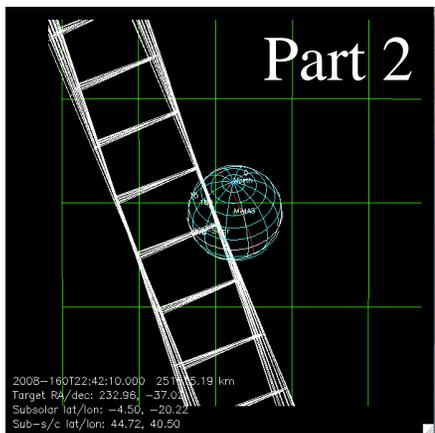
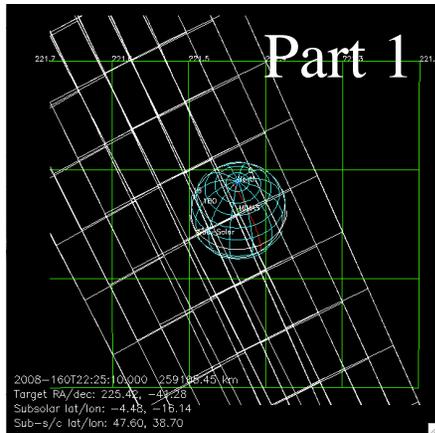
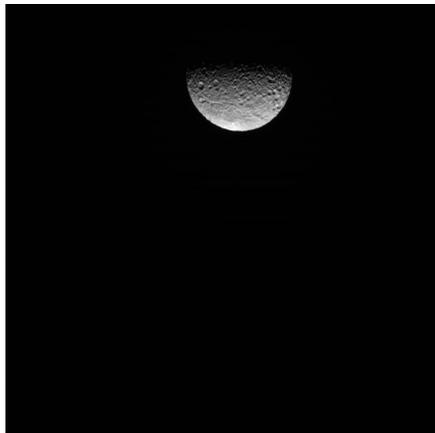
Longitude=53°W

Latitude=65°S

Phase=59°



CIRS_071MI_MIMASORS



071MI_ICYLON001_CIRS

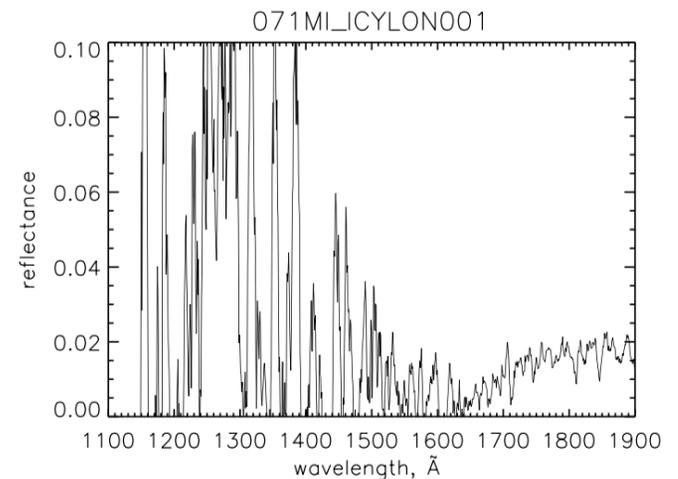
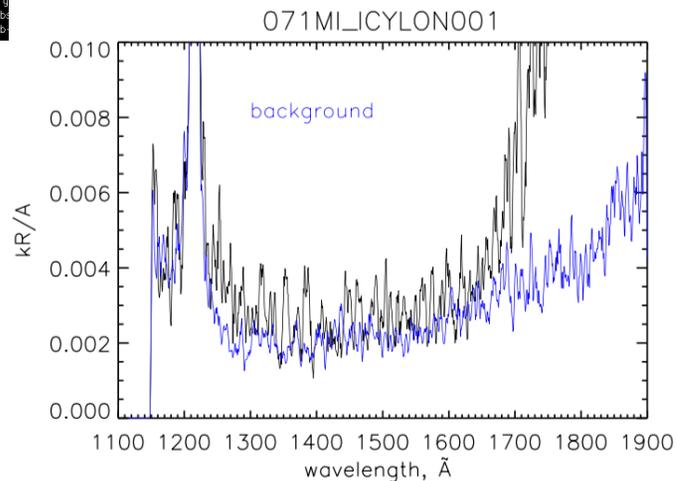
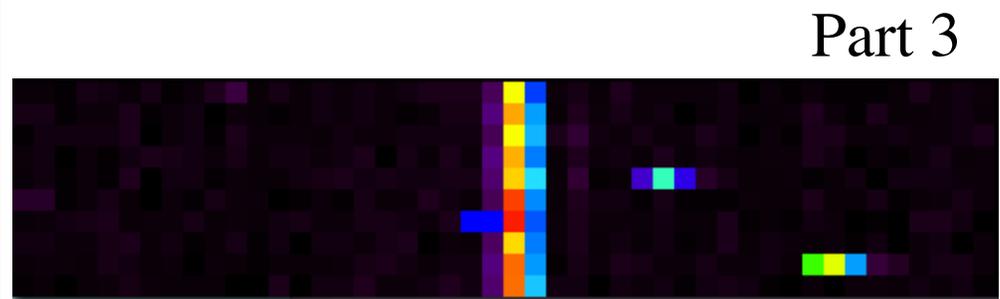
2008-160T22:26

Alt= 240,175 km

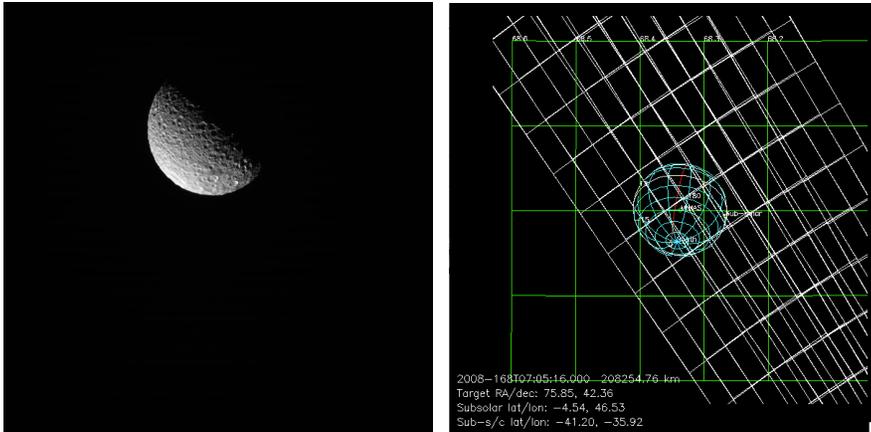
Longitude=317°W

Latitude=38°N

Phase=85°



CIRS_072MI_MIDIECLN001



072MI_ICYLON001_ISS

2008-168T07:06

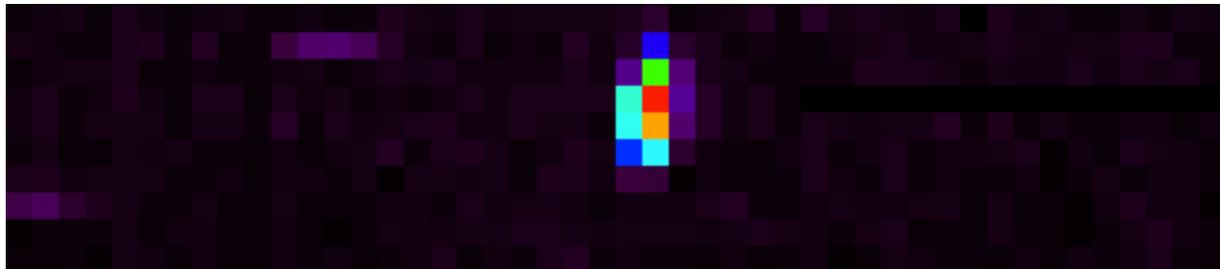
Alt= 213,193 km

Longitude=34°W

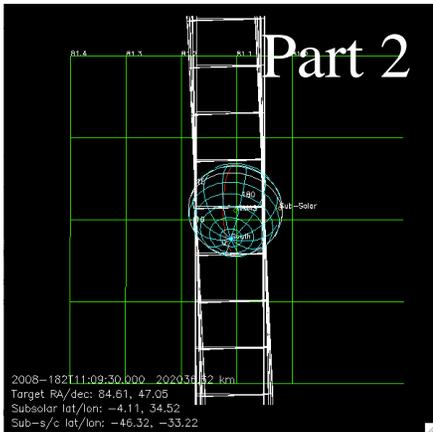
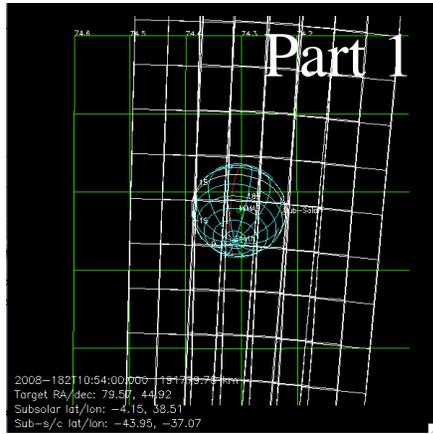
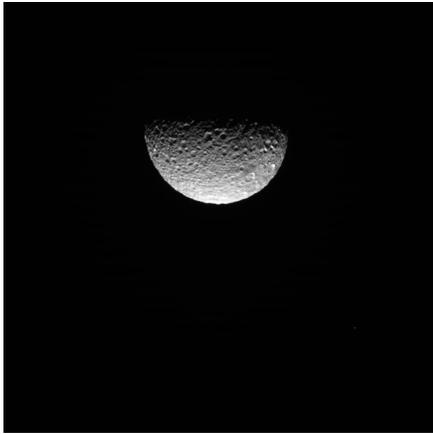
Latitude=42.7°S

Phase=83°

Only the first part of this observation is of Mimas; the others
(4) are Dione



ISS_074MI_MIMAS001_CIRS



074MI_MIMAS001_CIRS

2008-182T10:55

Alt= 195,463 km

Longitude=35°W

Latitude=45°S

Phase=80°

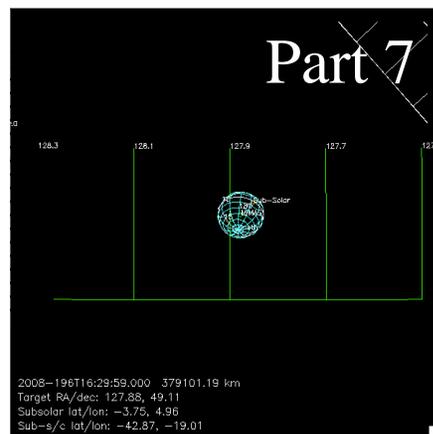
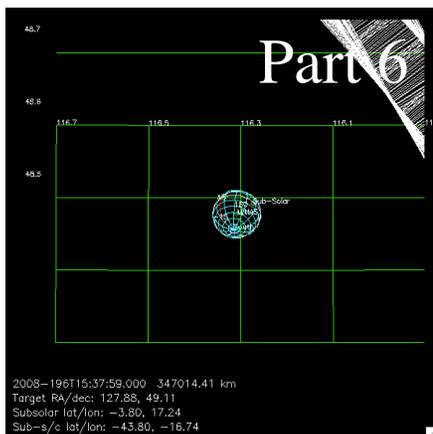
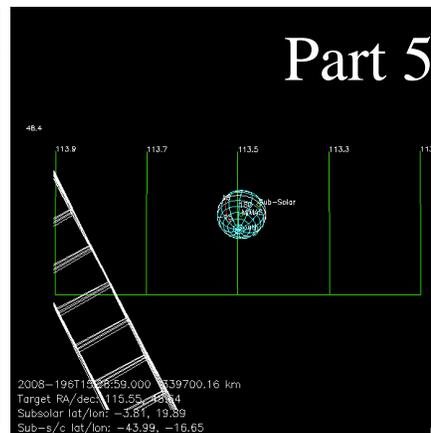
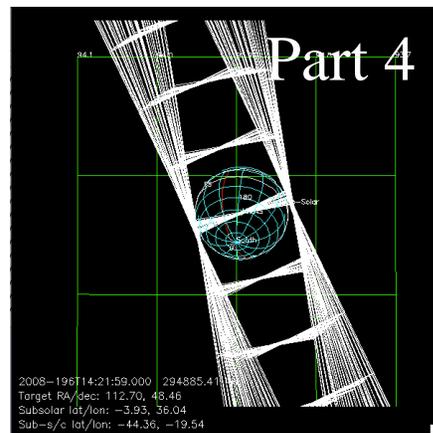
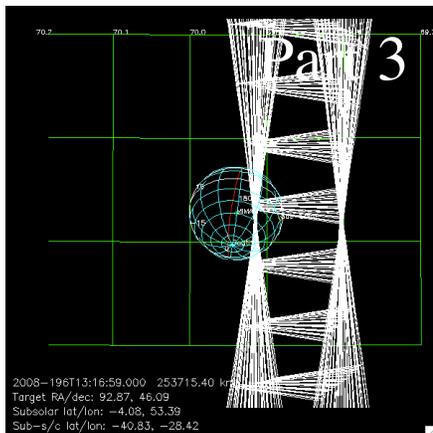
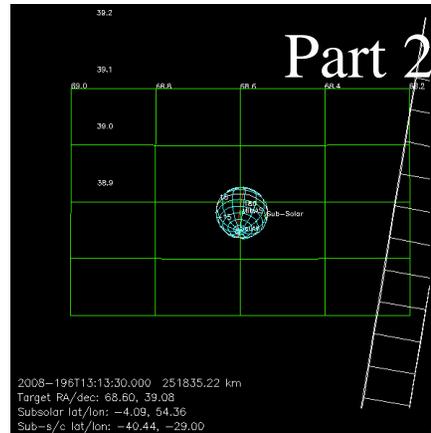
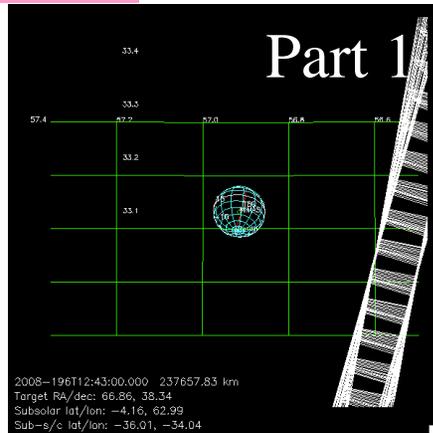
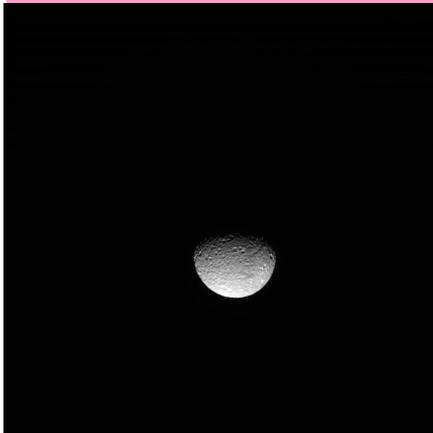
Part 1



Part 2



2008-196T12:44
 Alt= 316,156 km
 Longitude=18°W
 Latitude=44°S
 Phase=62.1°



Mimas in
 eclipse
 15:46:33.2-18:0
 2:27.464

081MI_ICYLON002_ISS

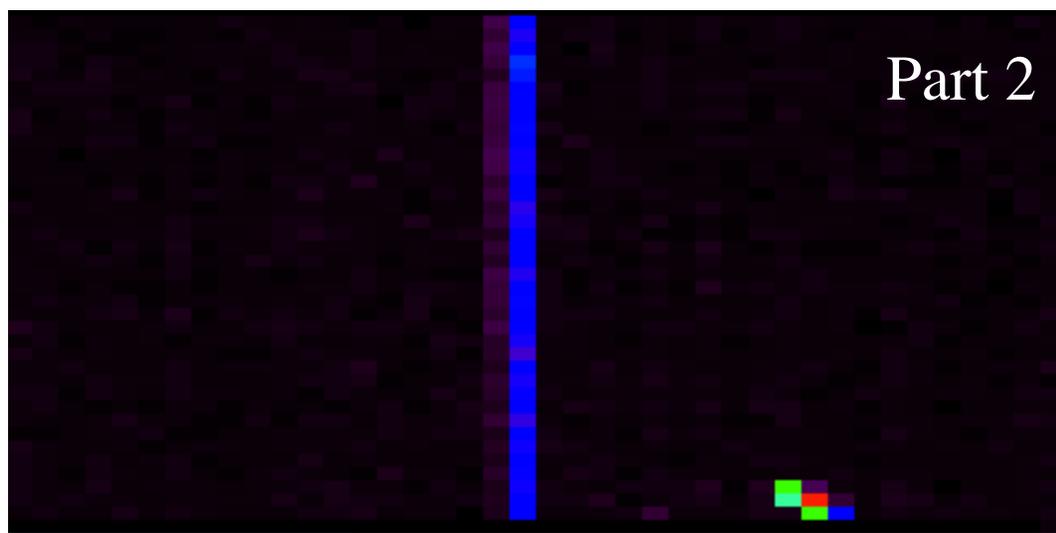
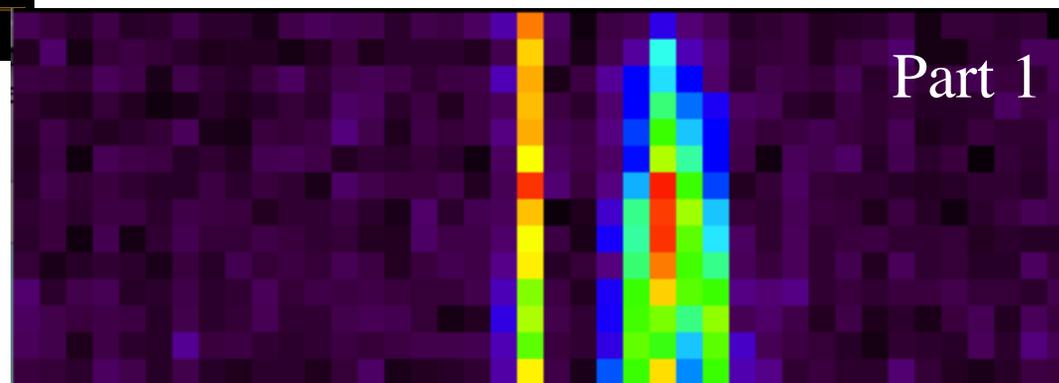
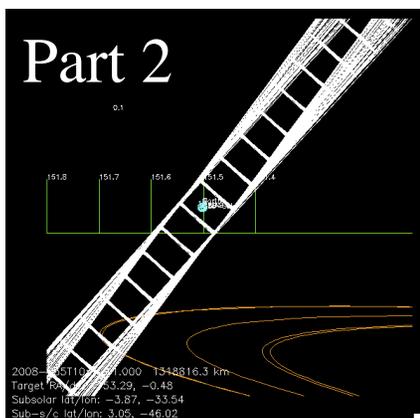
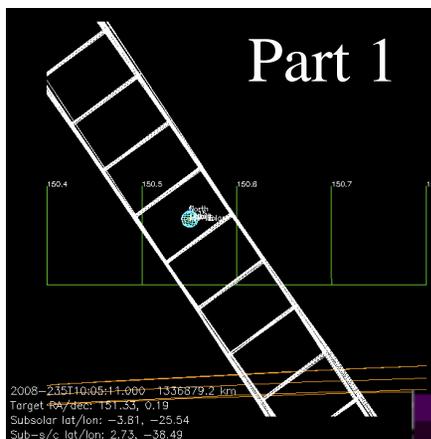
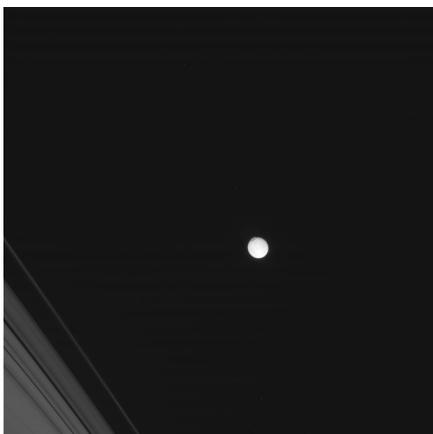
2008-235T10:06

Alt= 1,329,580 km

Longitude=42°W

Latitude=3°N

Phase=15.3°



ISS_085MI_085W013PH001_PRIME

085MI_ICYLON001_ISS

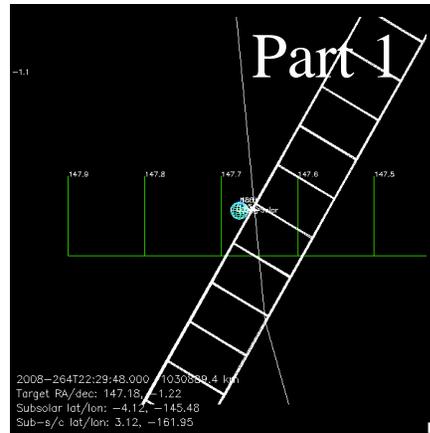
2008-264T22:30

Alt= 1,025,896 km

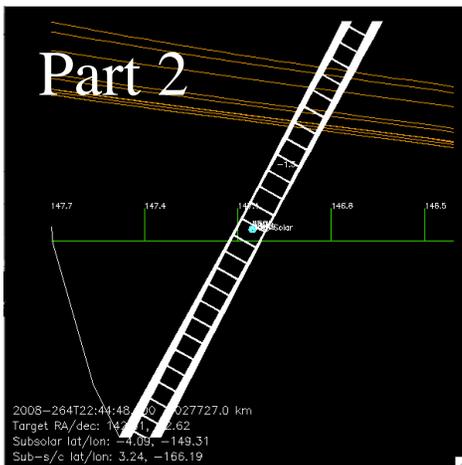
Longitude=180°W

Latitude=3.7°N

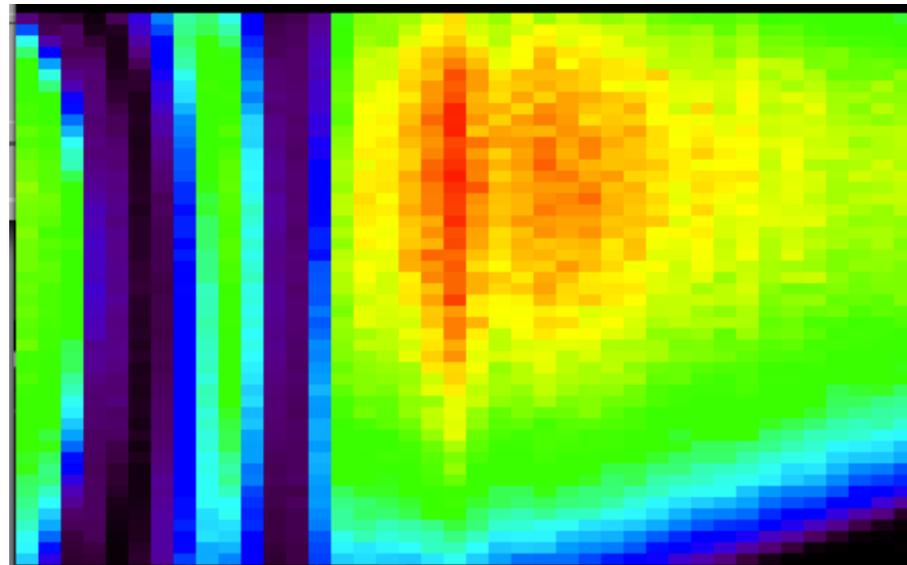
Phase=22.1°



Mostly in front of Saturn

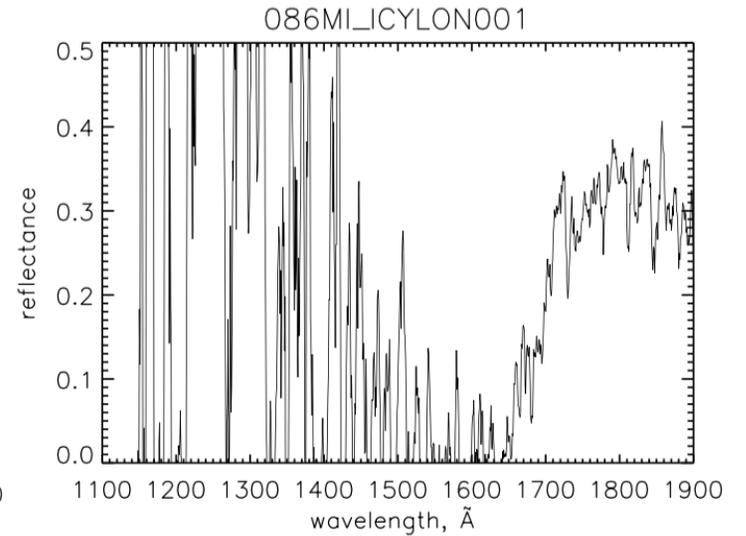
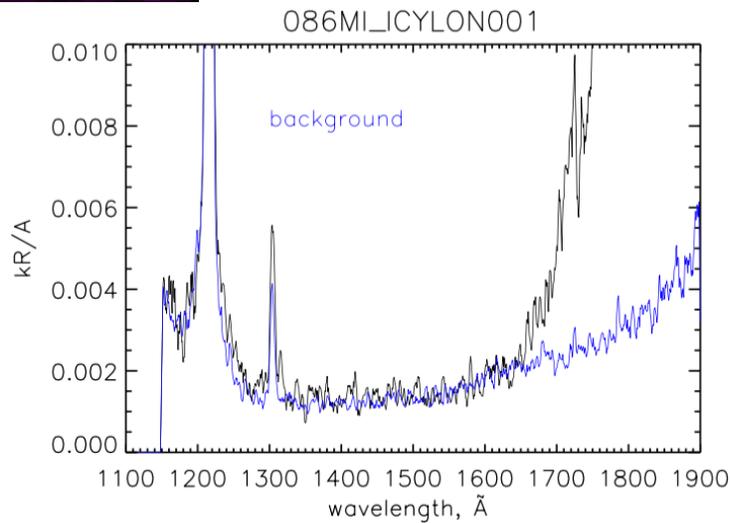
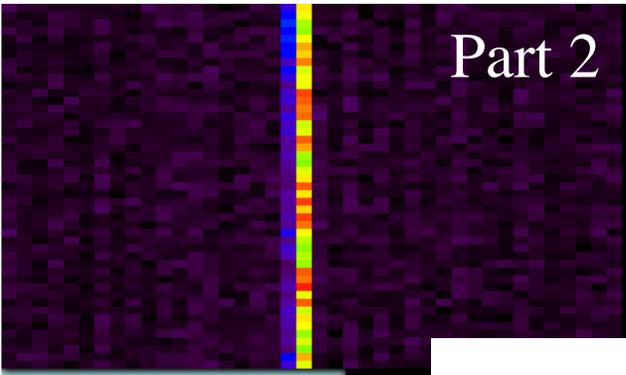
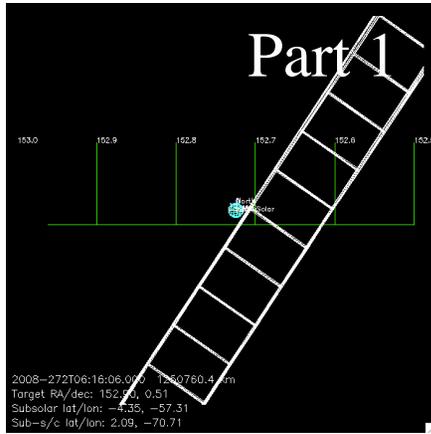
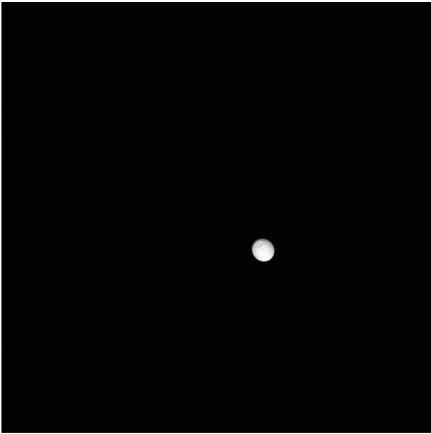


Part 2



086MI_ICYLON001_ISS

2008-272T06:17
Alt= 1,201,242 km
Longitude=88°W
Latitude=2.7°N
Phase=14.2°



ISS_087MI_100W015PH001_PRIME

087MI_ICYLON001_ISS

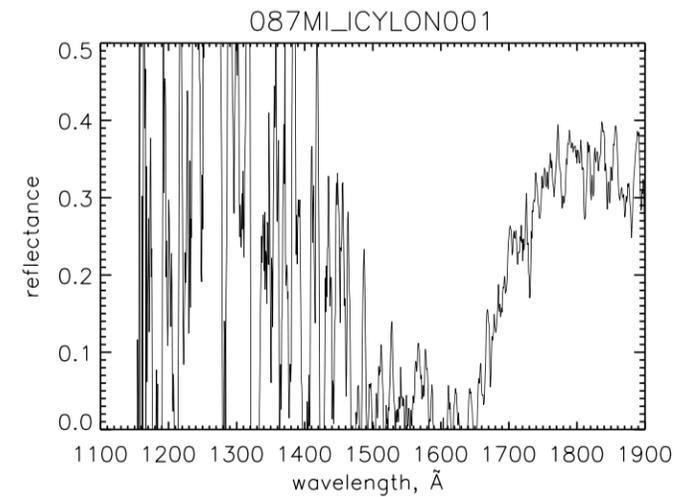
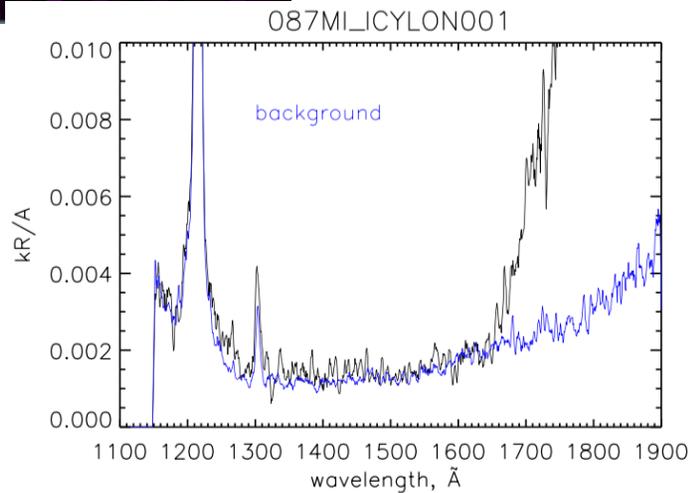
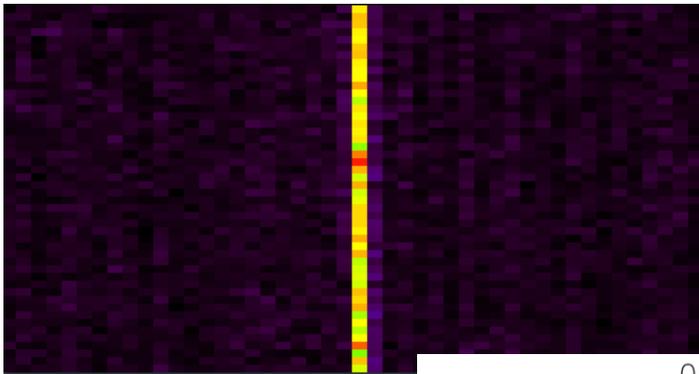
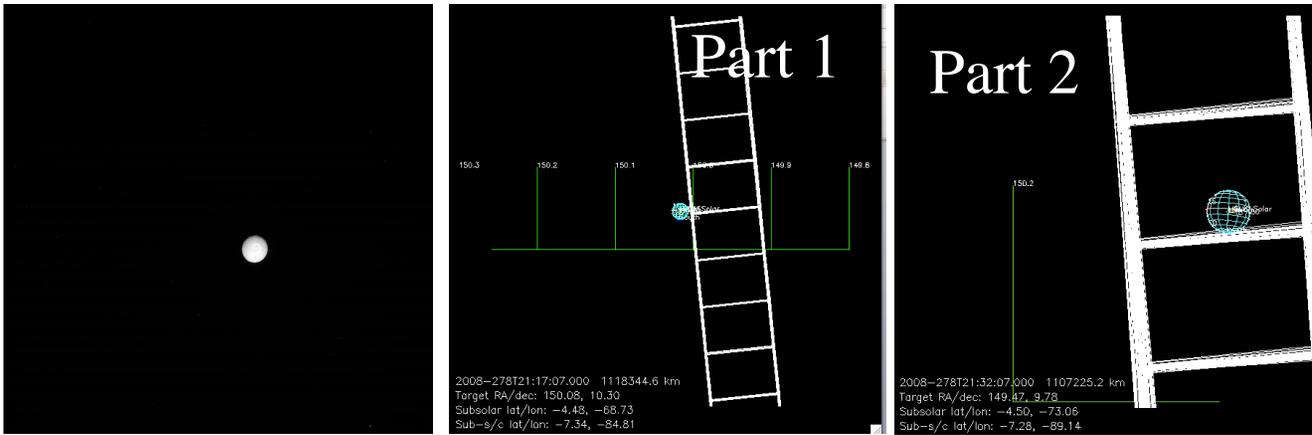
2008-278T21:18

Alt= 1,072,448 km

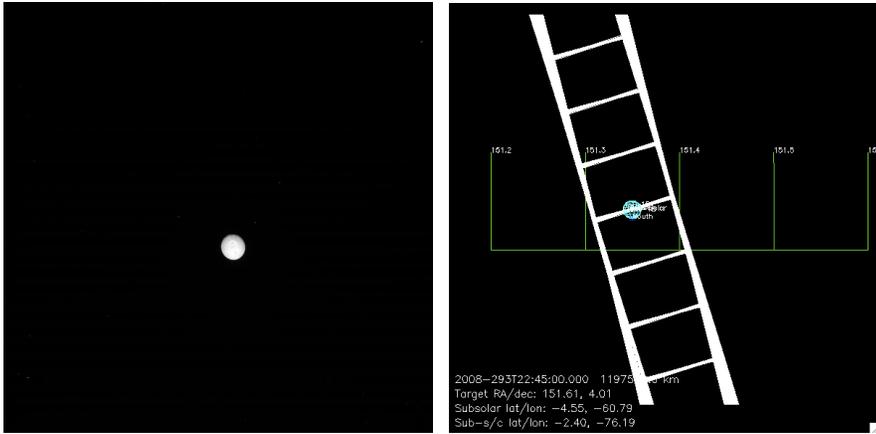
Longitude=103°W

Latitude=7°S

Phase=14.9°



ISS_089MI_100W014PH001_PRIME



089MI_ICYLON001_ISS

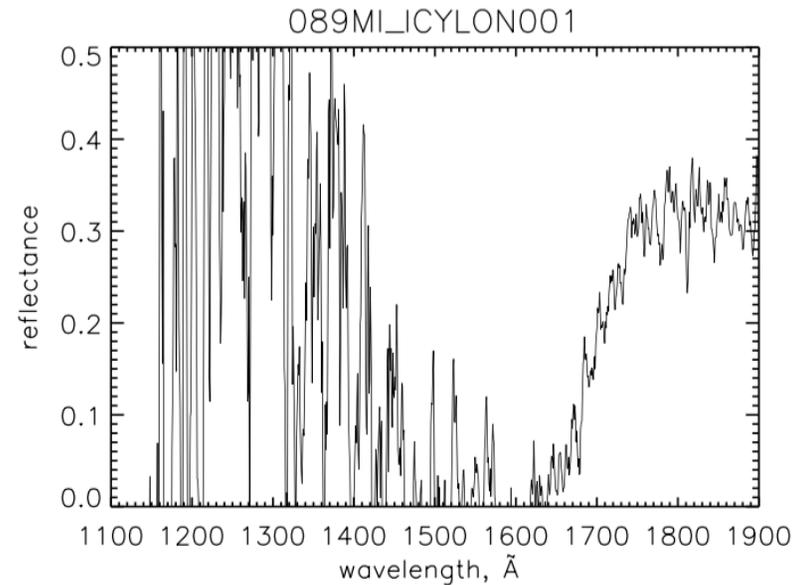
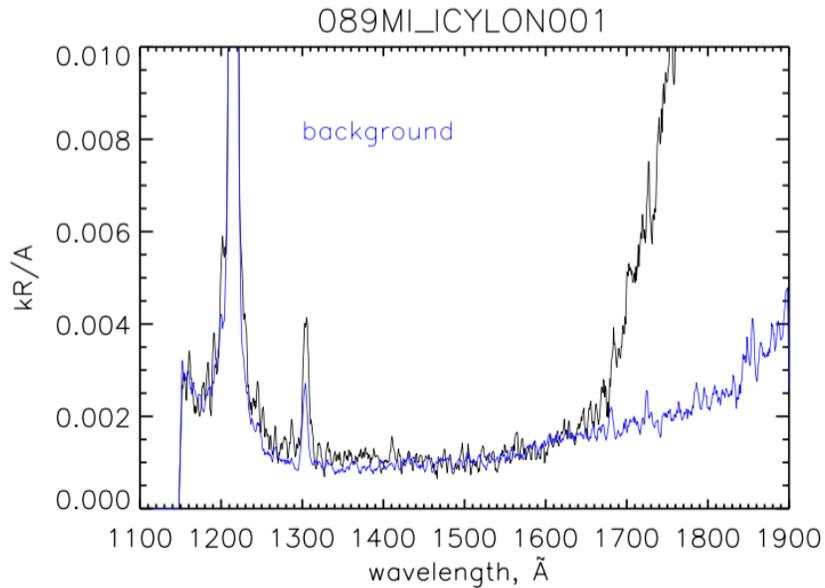
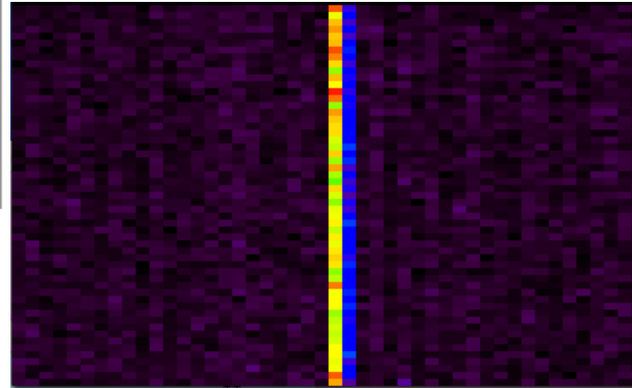
2008-293T22:46

Alt= 1,155,108 km

Longitude= 92°W

Latitude=2°S

Phase=14.2°



090MI_ICYLON002_ISS

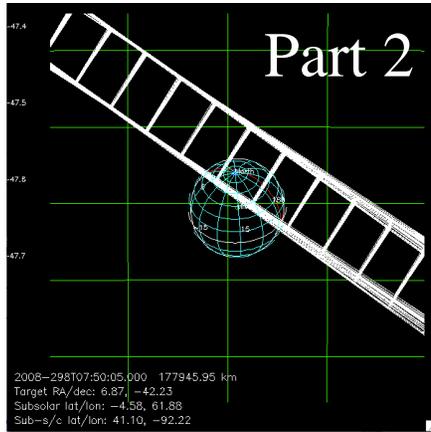
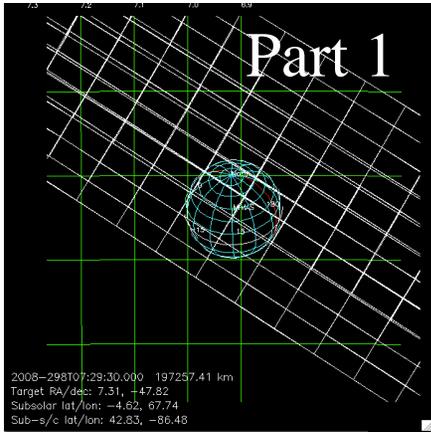
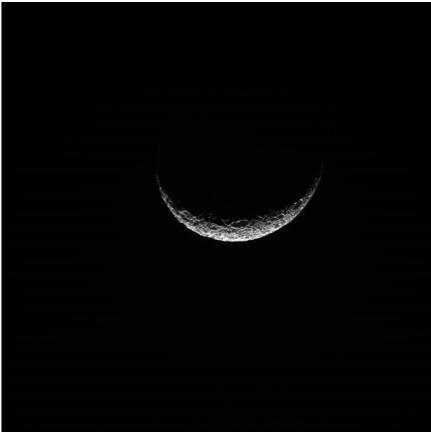
2008-298T07:30

Alt= 189,598 km

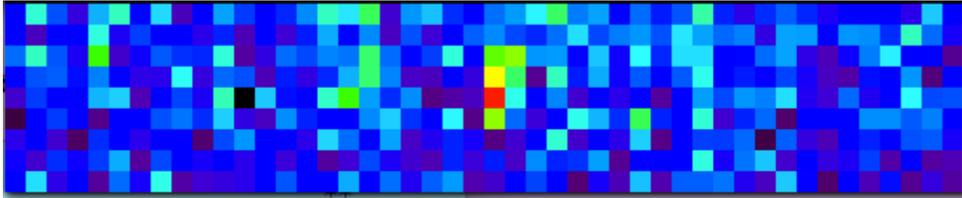
Longitude=89°W

Latitude=42.2°N

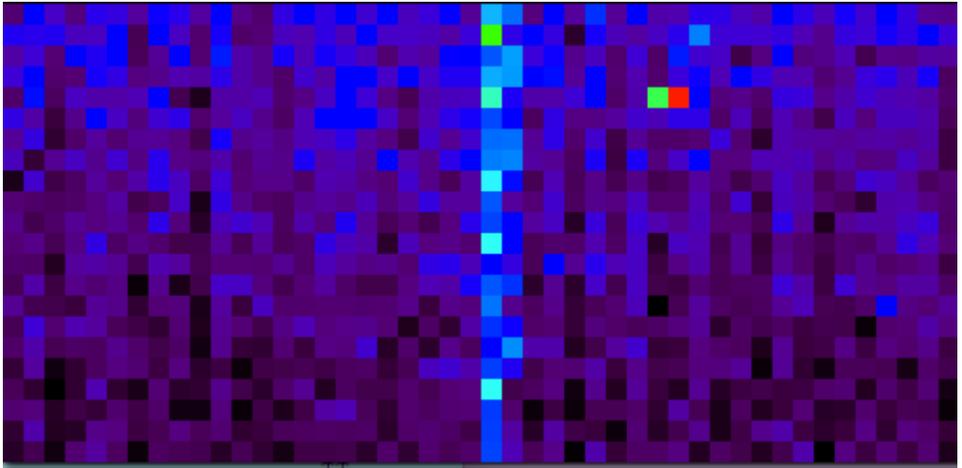
Phase=135.8°



Part 1



Part 2



093MI_ICYSTARE001_PRIME

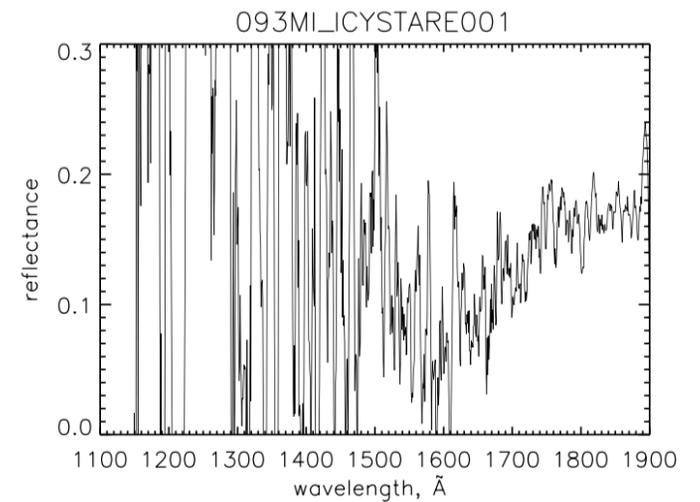
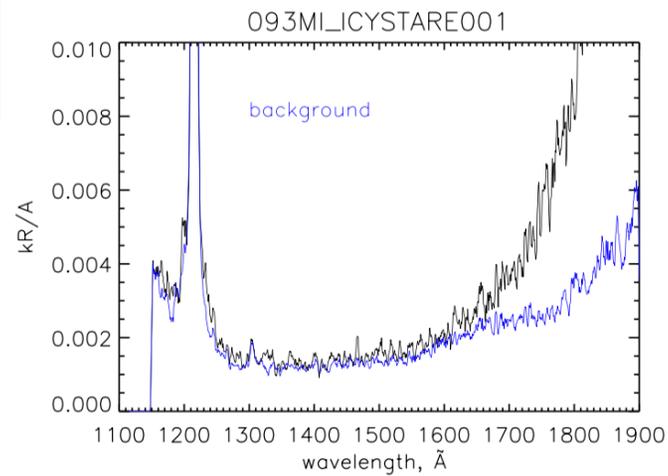
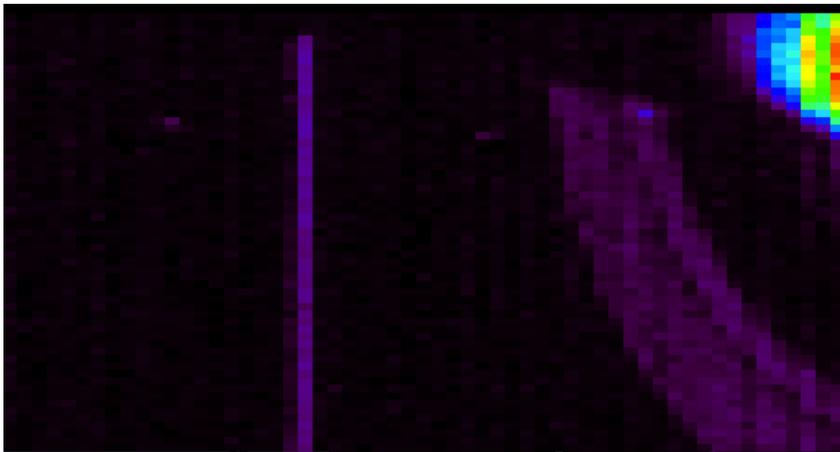
2008-319T02:06

Alt= 1,350,151 km

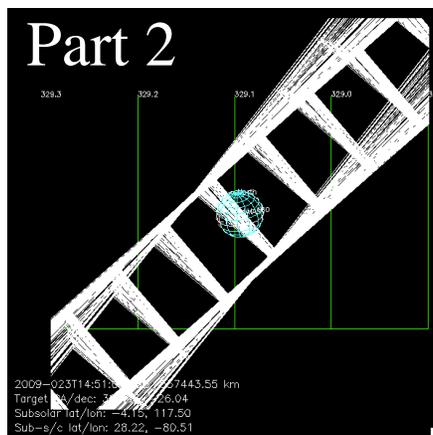
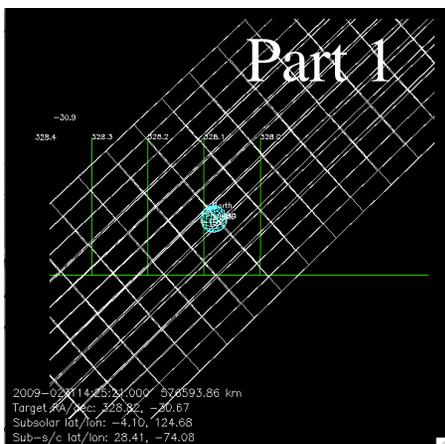
Longitude=339°W

Latitude=21.7°N

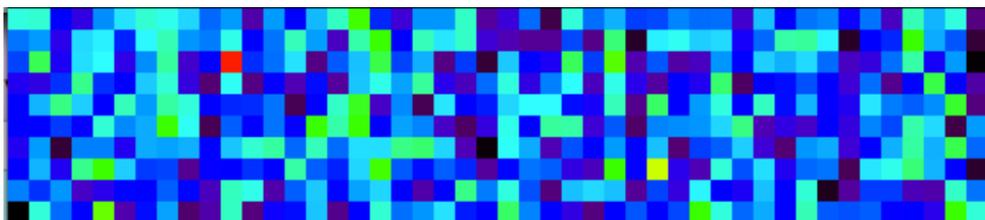
Phase=33.6°



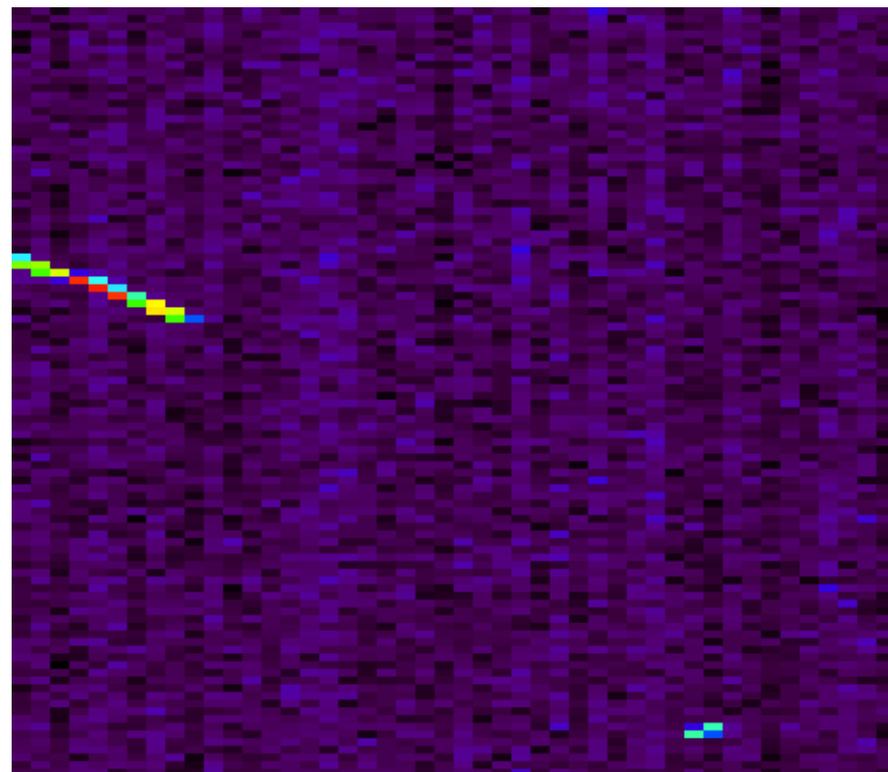
Low SNR



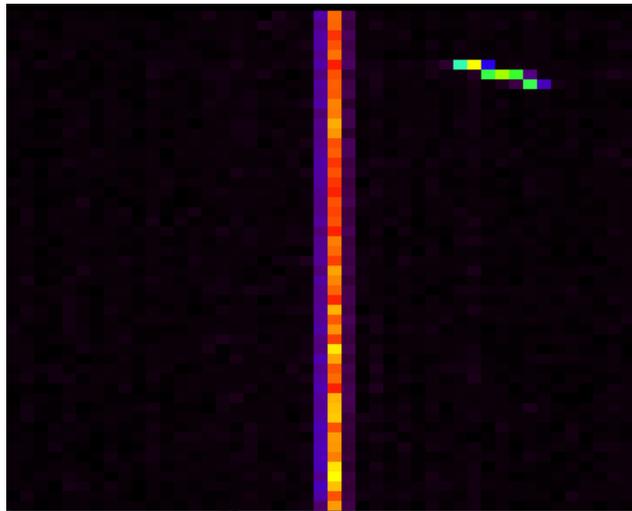
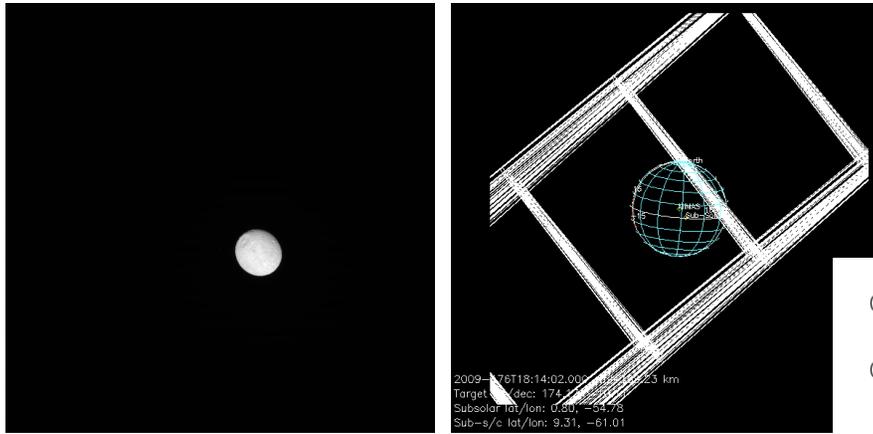
Part 1



Part 2



ISS_113MI_063W011PH001_PRIME



113MI_ICYLON001_ISS

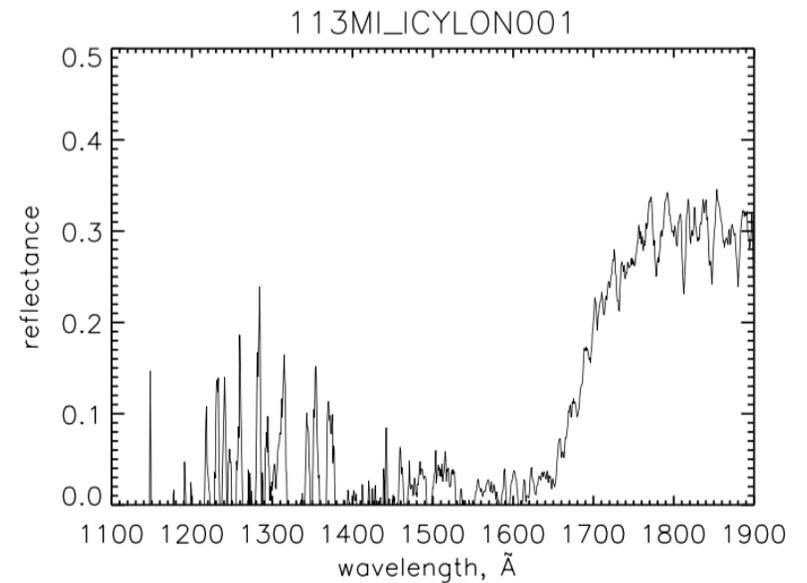
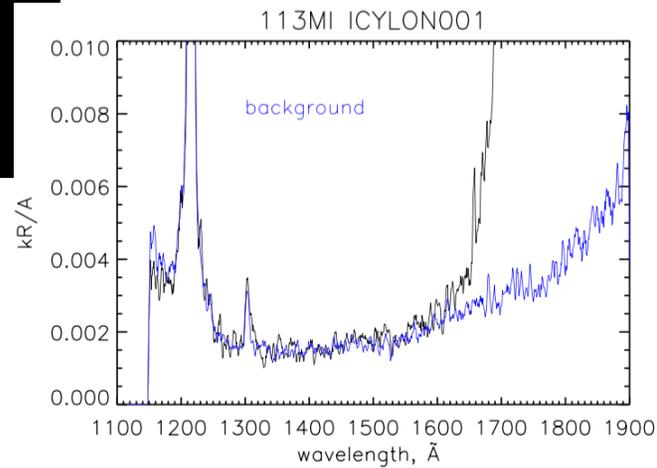
2009-176T18:15

Alt= 572,337 km

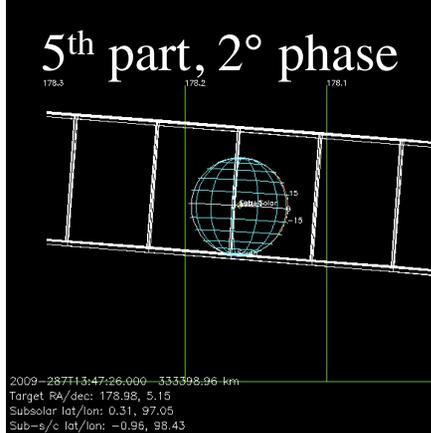
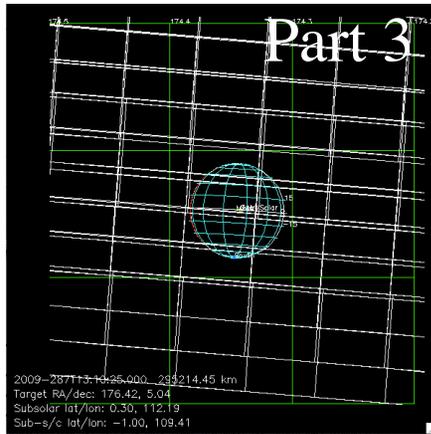
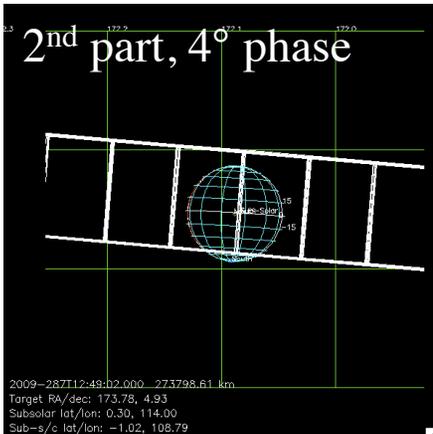
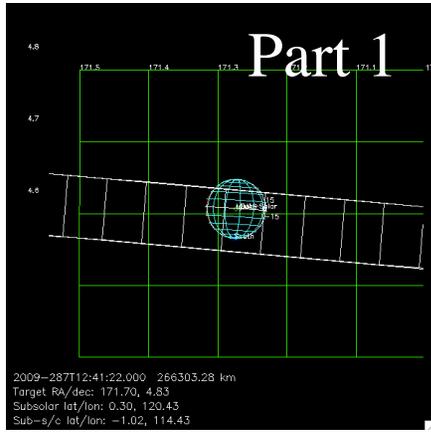
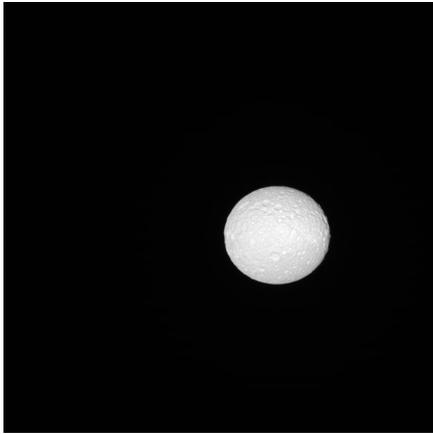
Longitude=72°W

Latitude=12°N

Phase=12.7°



ISS_119MI_LOWPHASE001



119MI_ICYLON001_ISS

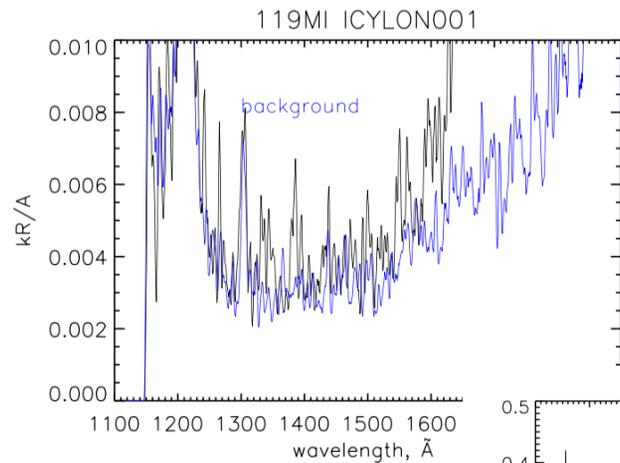
2009-287T12:42

Alt= 337,627 km

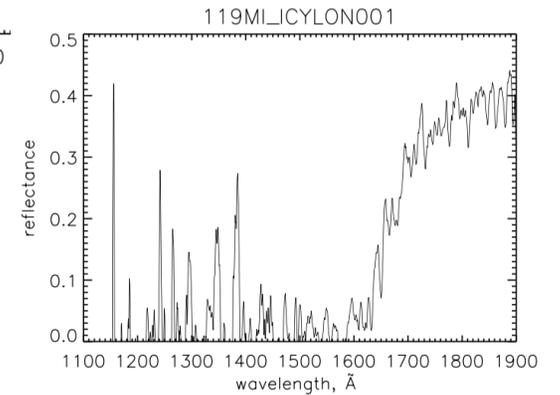
Longitude=258°W

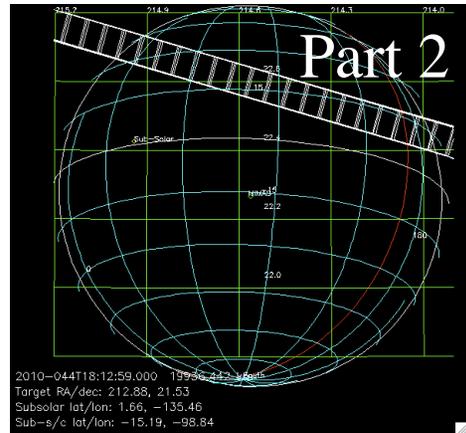
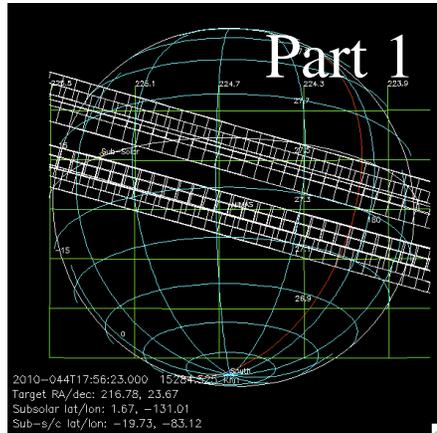
Latitude=1°S

Phase=2.1° (part 5)



Part 5





126MI_ICYLON001_ISS

2010-044T17:57

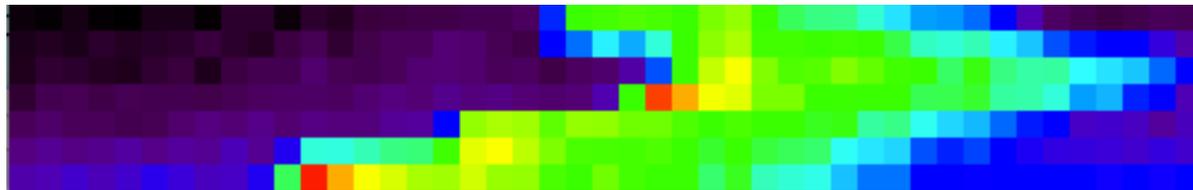
Alt= 16,826 km

Lon=89°W

Latitude=17.9°S

Phase=44.6°

Part 1



126MI_ICYLON002_ISS

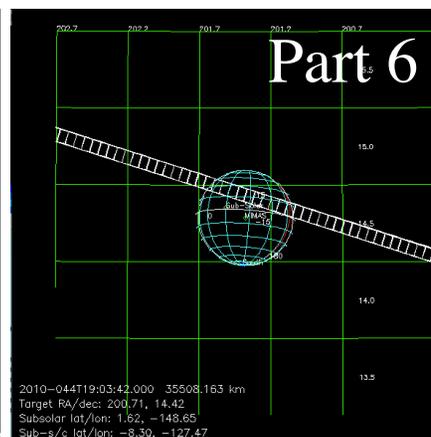
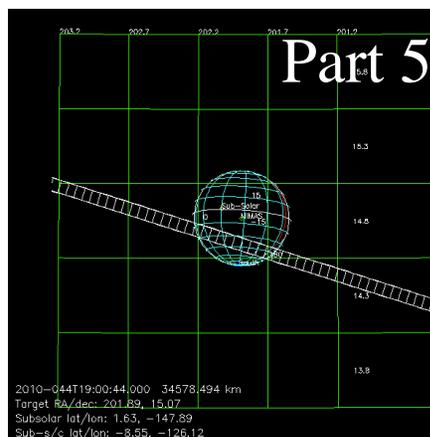
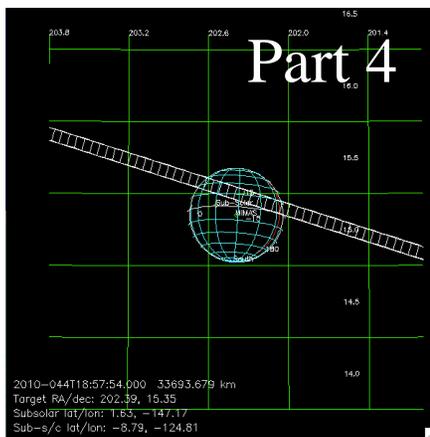
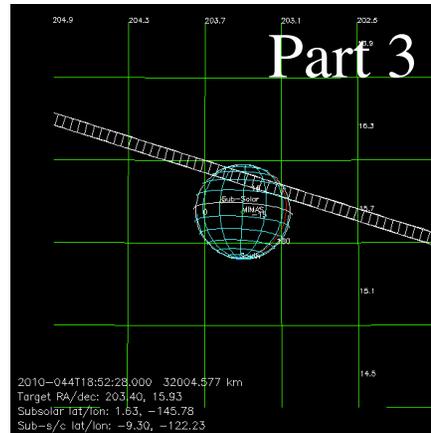
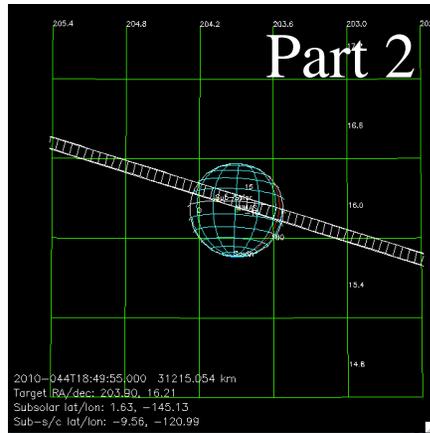
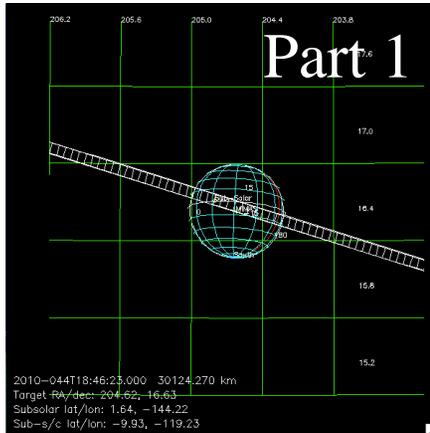
2010-044T18:47

Alt= 29,926 km

Longitude=119°W

Latitude=10°S

Phase=27.5°



Part 6



126MI_ICYLON003_CIRS

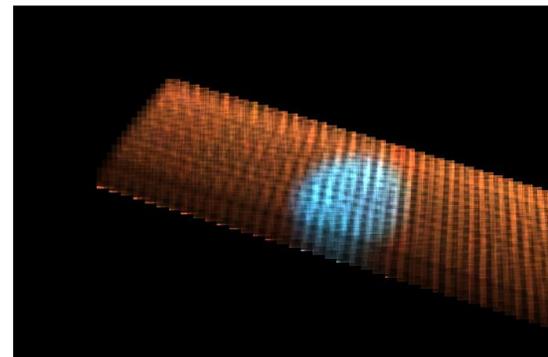
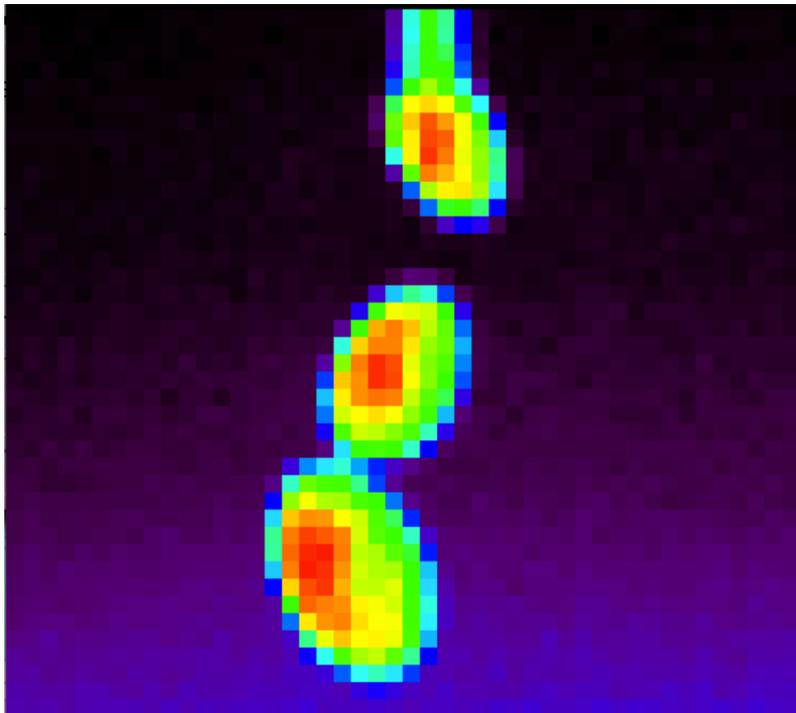
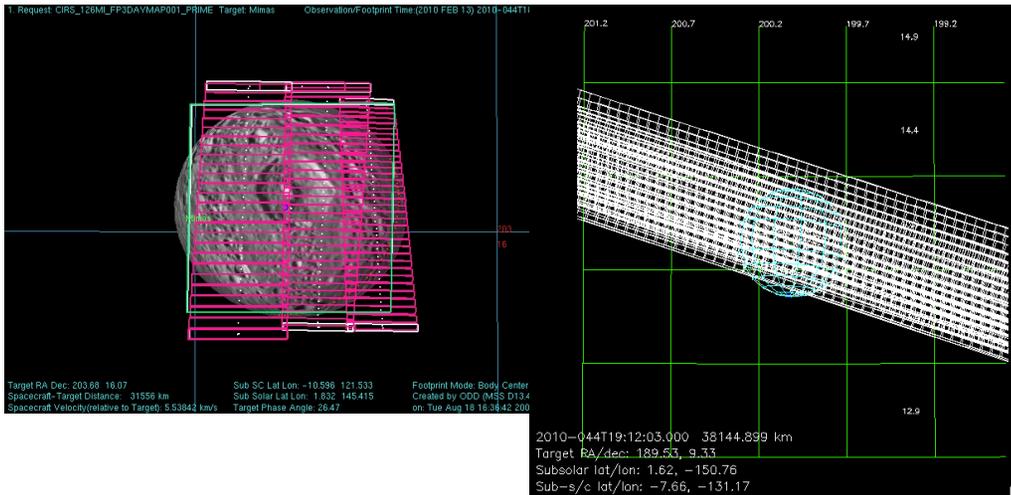
2010-044T19:13

Alt= 51,565 km

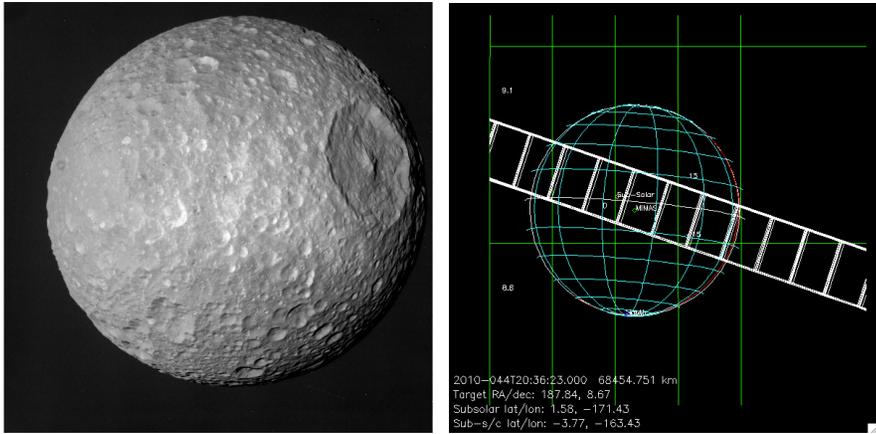
Longitude=147°W

Latitude=5.5°S

Phase=16.4°



Swath 1 only



126MI_ICYLON004_ISS

2010-044T20:37

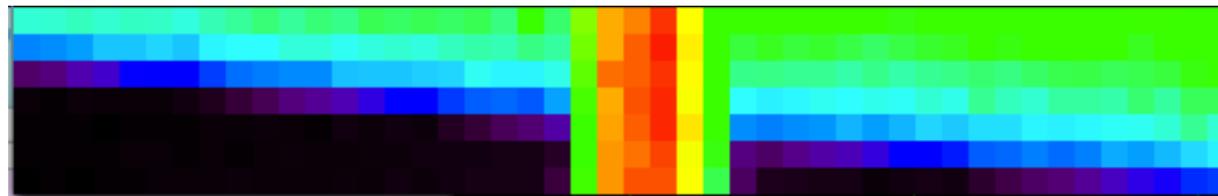
Alt= 70,834 km

Longitude=165°W

Latitude=3.6°S

Phase=10.2°

In front of Saturn part of the time



CIRS_139MI_MIMAS001_PRIME

26-part obs

139MI_ICYECL001_CIRS

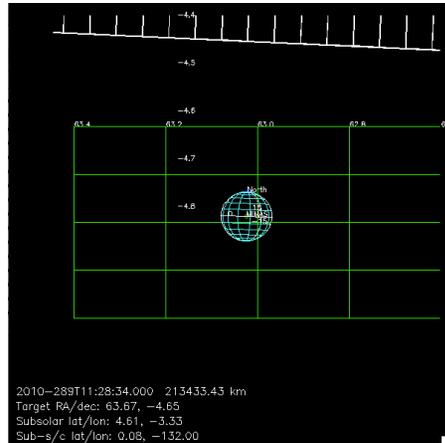
2010-289T11:30-16:59

Alt= 210,100 km

Longitude=133°W

Latitude=0.1°N

Phase=124.8°

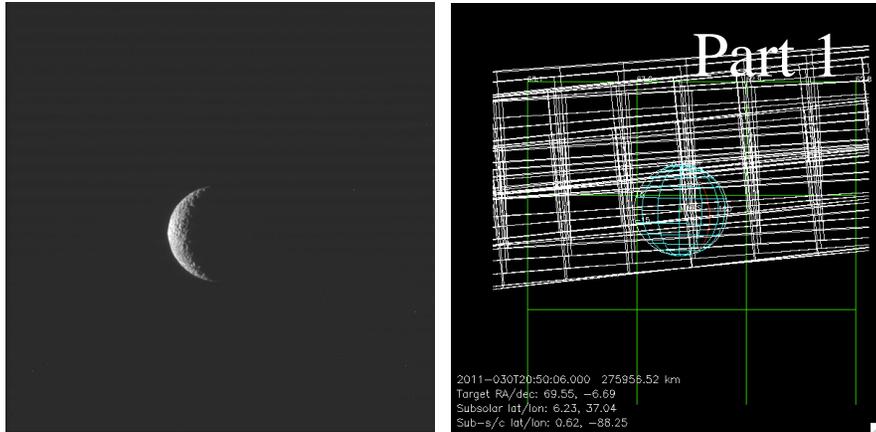


Mimas in solar eclipse 10:18:28-12:33:51

In front of Saturn 14:26-17:20

No bigger than 3.78 mrad across

11-part obs



144MI_ICYLON001_CIRS

2011-030T20:51

Alt= 261,826 km

Longitude= 89°W

Latitude=0.5°N

Phase=125°

144MI_ICYLON002_ISS

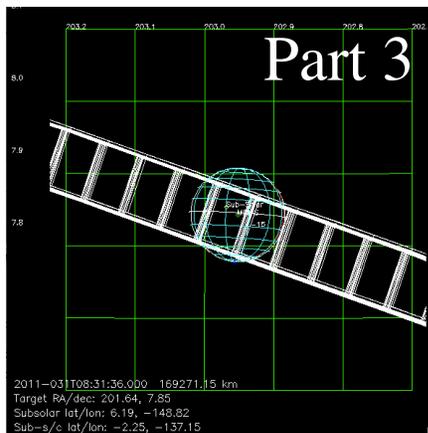
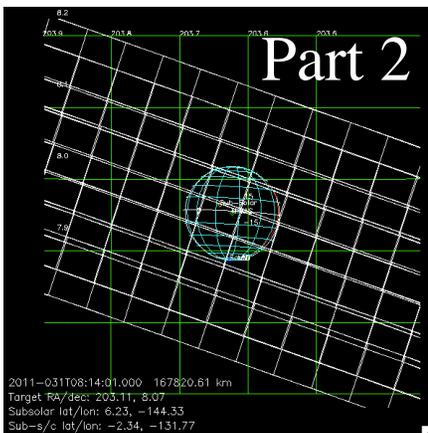
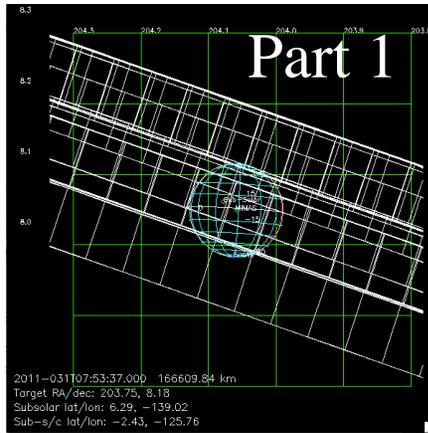
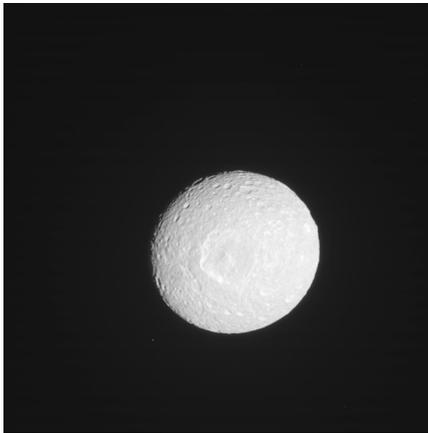
2011-031T07:54

Alt= 166,848 km

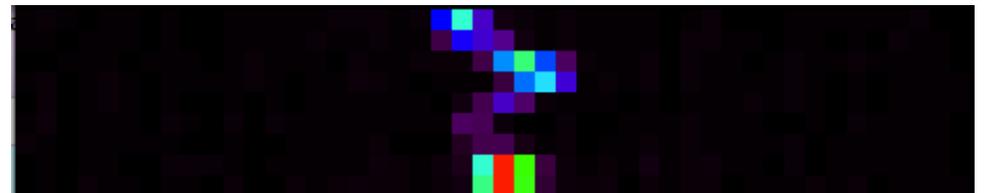
Lon=128°W

Latitude=2°S

Phase=16°



Part 1



Part 2



Part 3



144MI_ICYLON003_VIMS

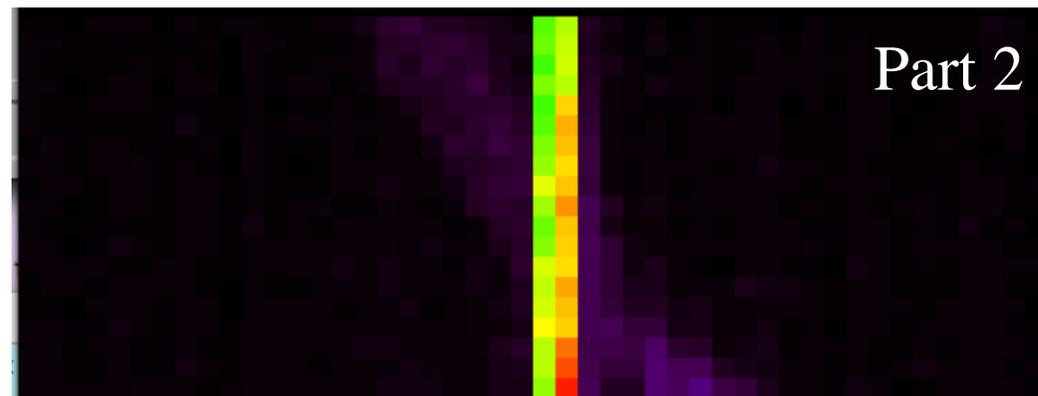
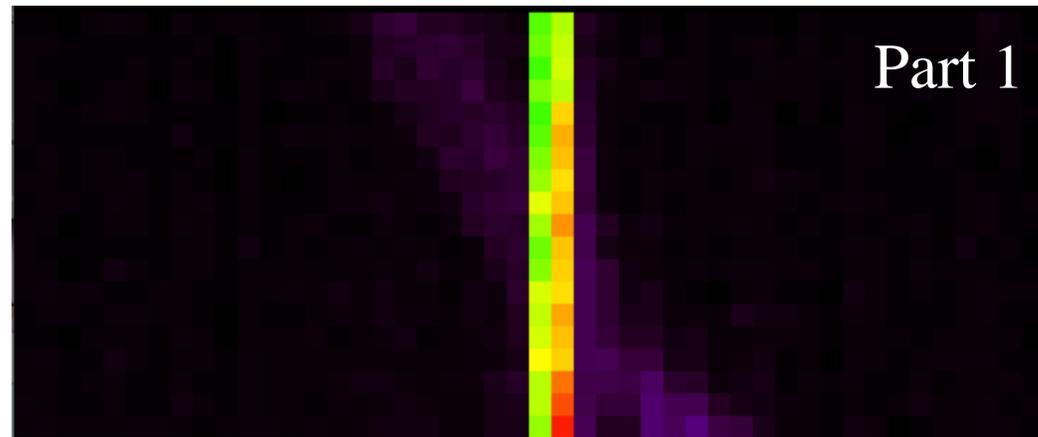
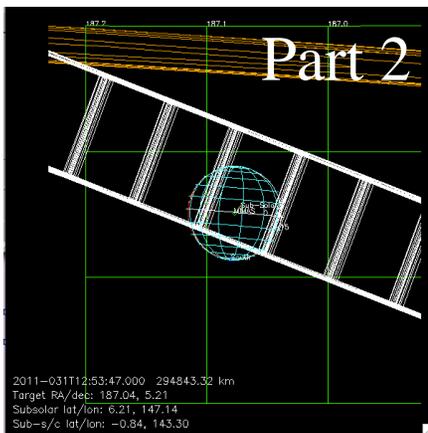
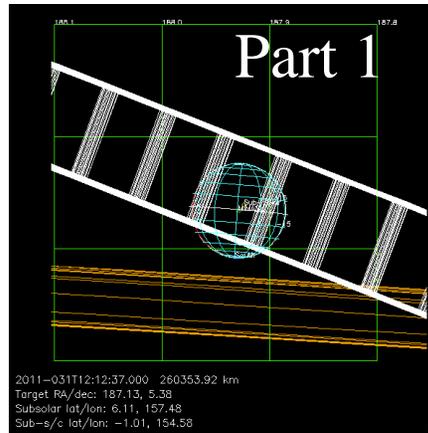
2011-031T12:13

Alt= 274,819 km

Longitude=210°W

Latitude=1°S

Phase=8.9°



144MI_ICYLON004_PRIME

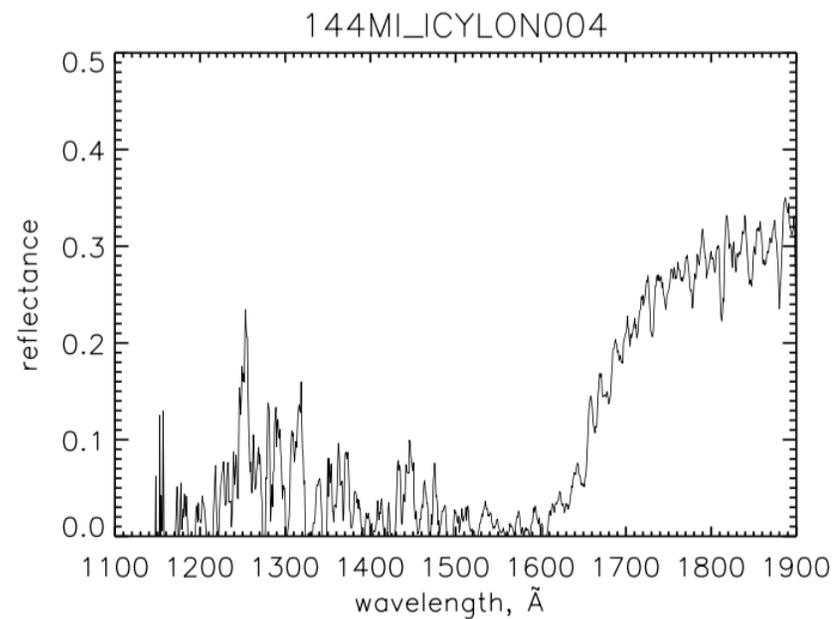
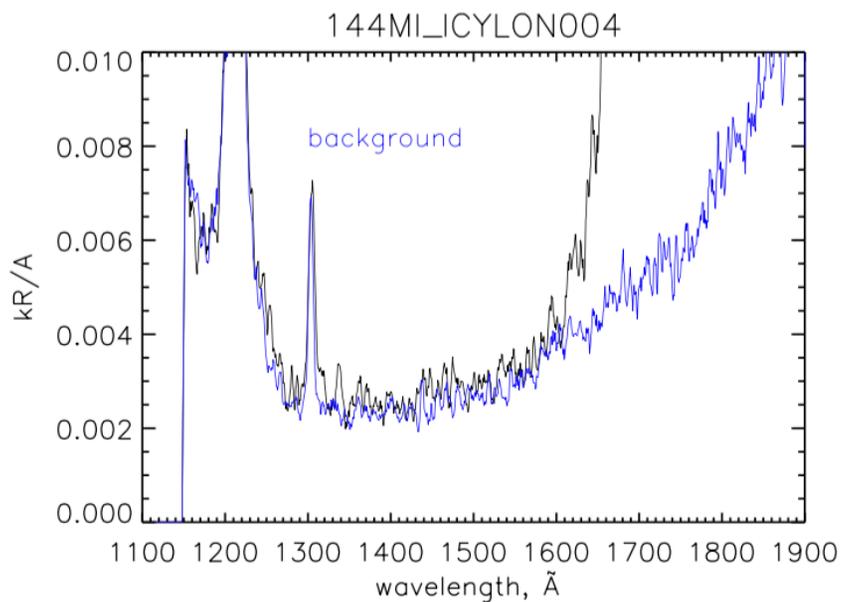
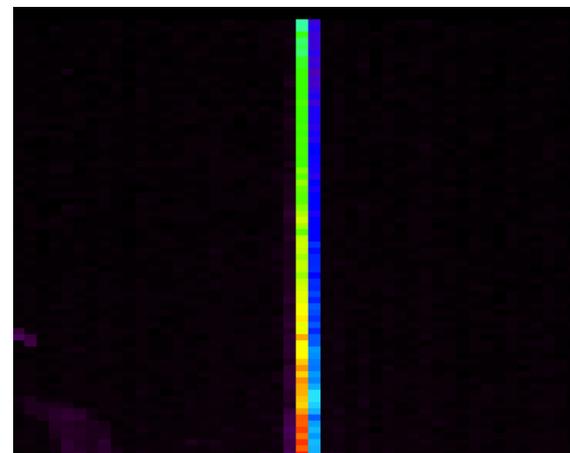
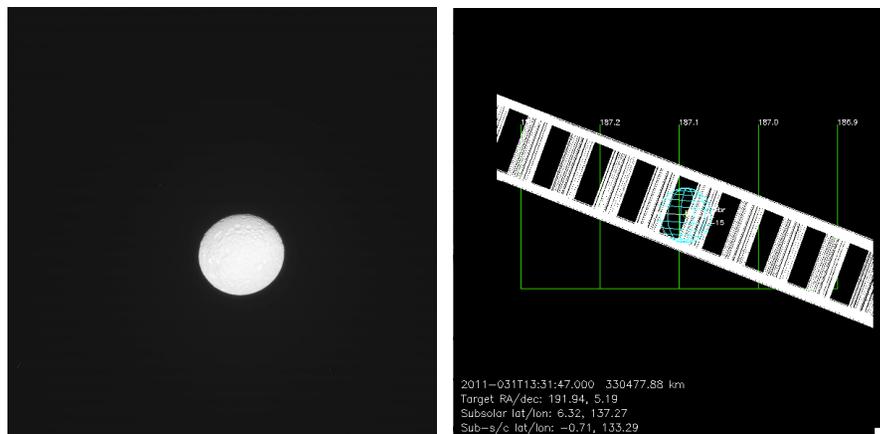
2011-031T13:32

Alt= 404,134 km

Longitude=244°W

Latitude=0.5°S

Phase=8°



167MI_ICYLON001_CIRS

2012-157T04:20

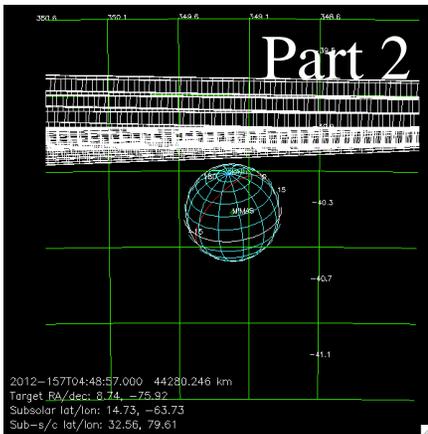
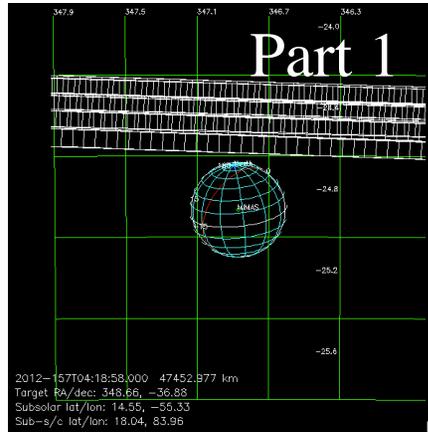
Alt= 45,774 km

Longitude=278°W

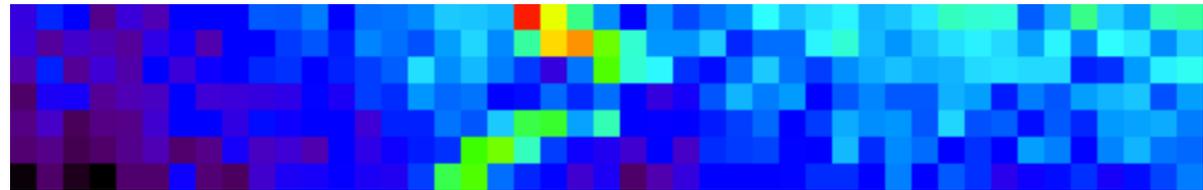
Latitude=23.7°N

Phase=126°

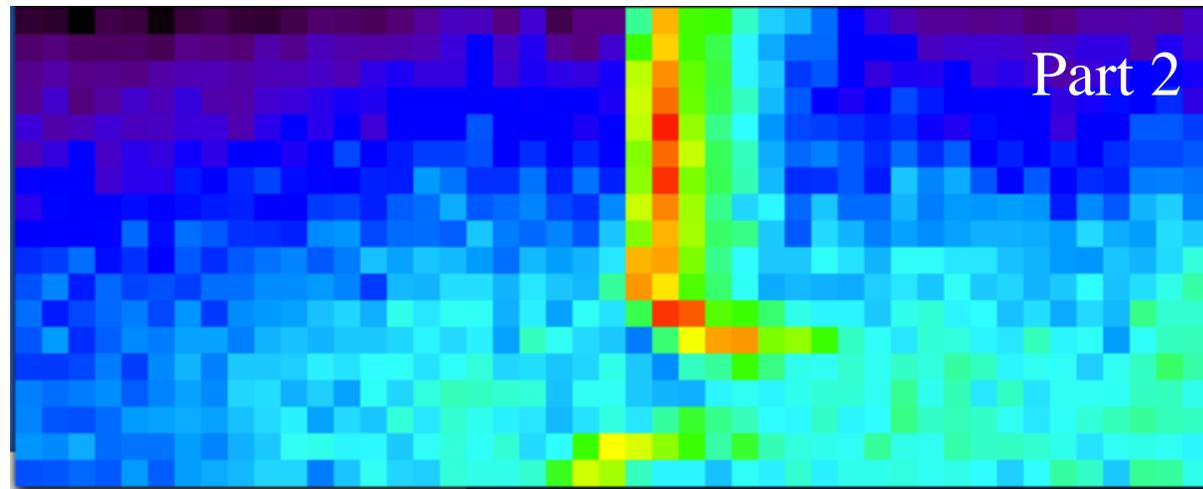
Fast scans?



Part 1



Part 2



167MI_ICYMAP001_CIRS

2012-157T07:02

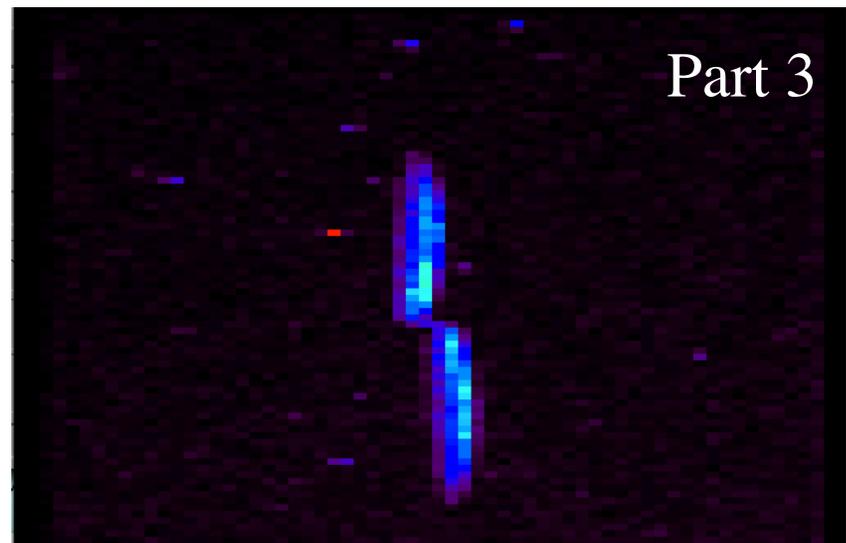
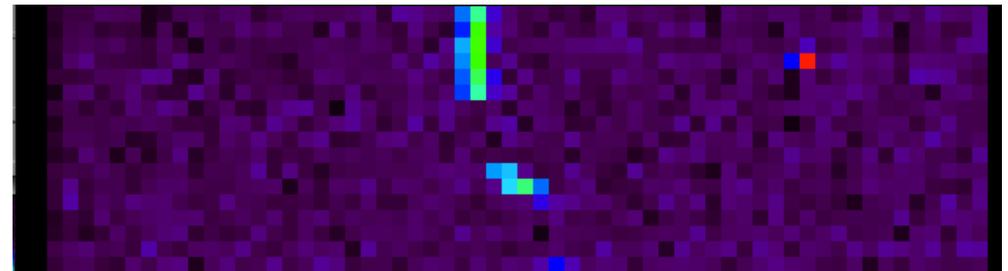
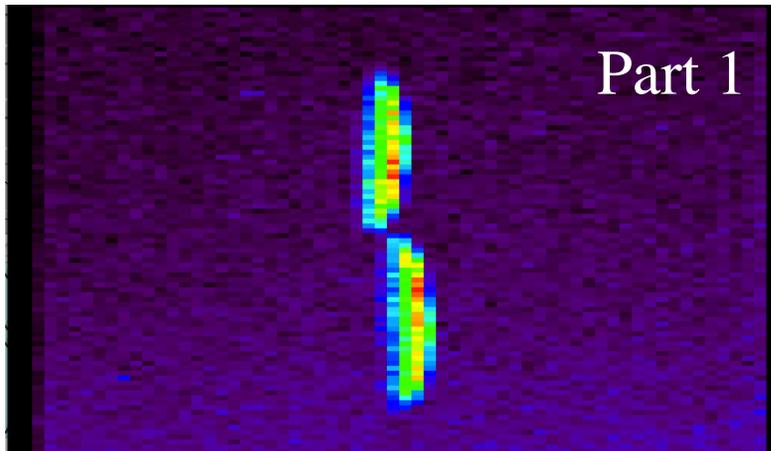
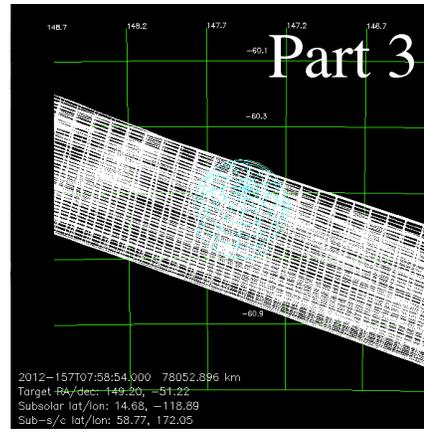
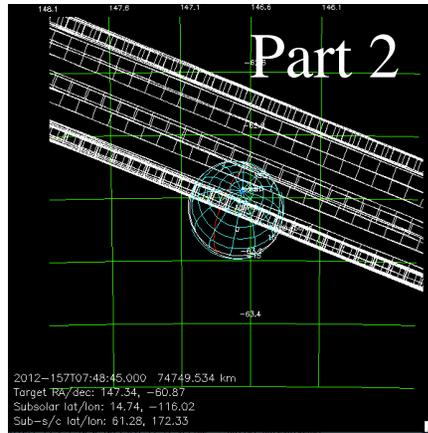
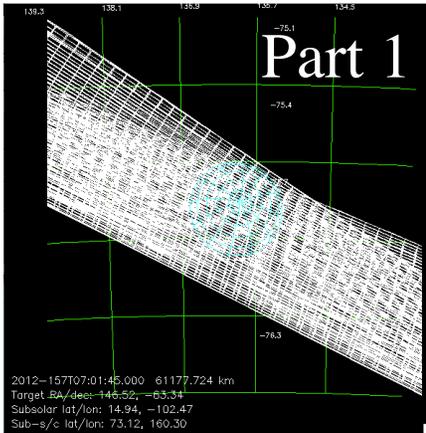
Alt= 67,247 km

Longitude=191°W

Latitude=67.5°N

Phase=73°

Part 2 (fast scan)



170MI_LOPHASE001_PIE

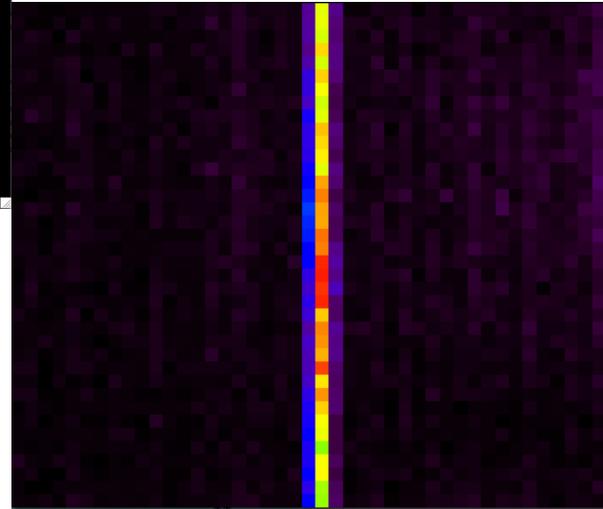
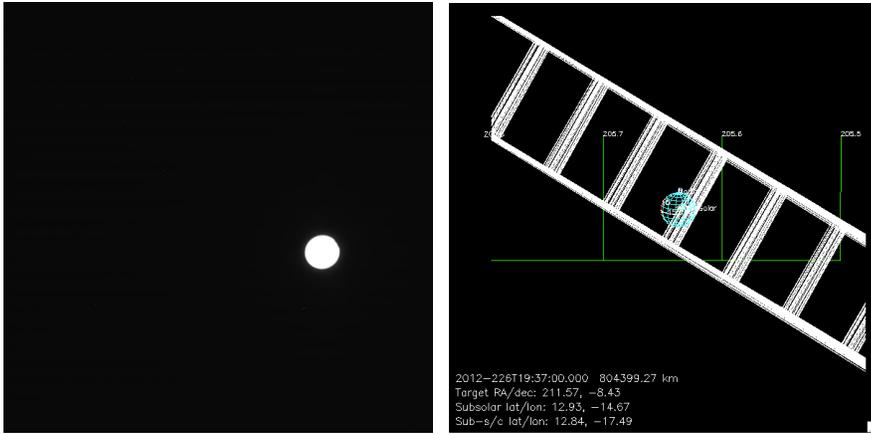
2012-226T19:38

Alt= 807,118 km

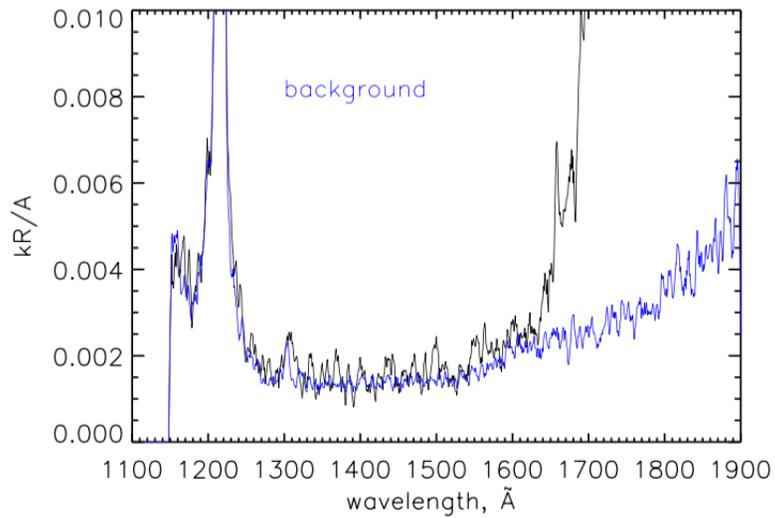
Longitude=24°W

Latitude=13°N

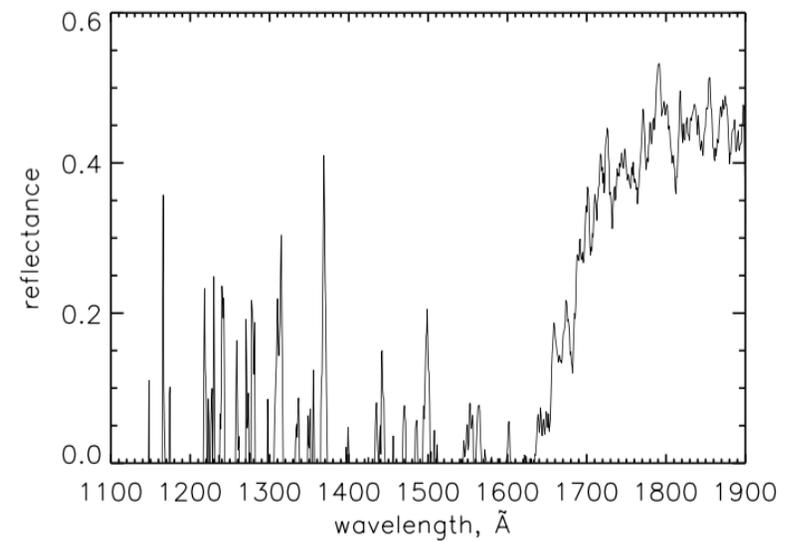
Phase=1.6°



170MI_LOPHASE001



170MI_LOPHASE001



172MI_ICYLON001_ISS

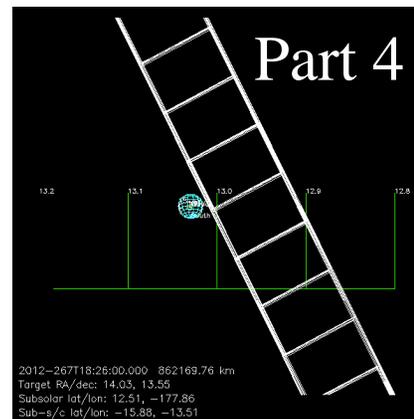
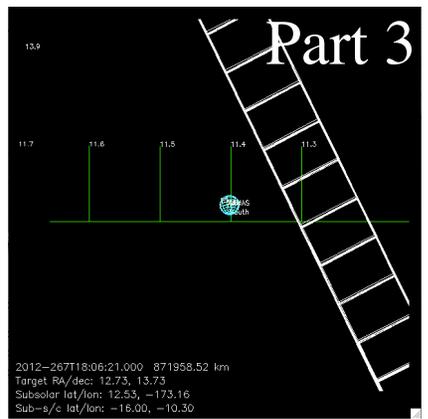
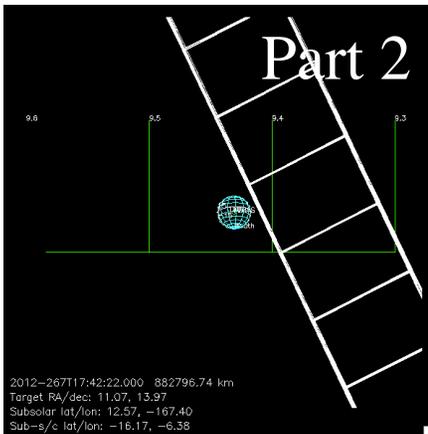
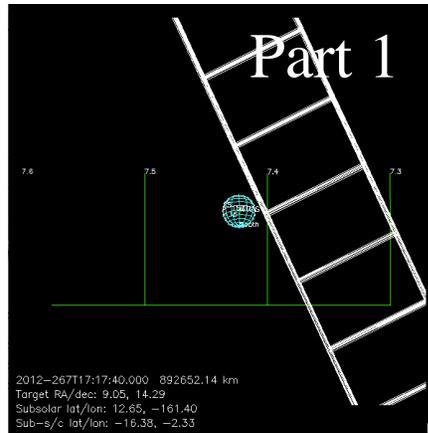
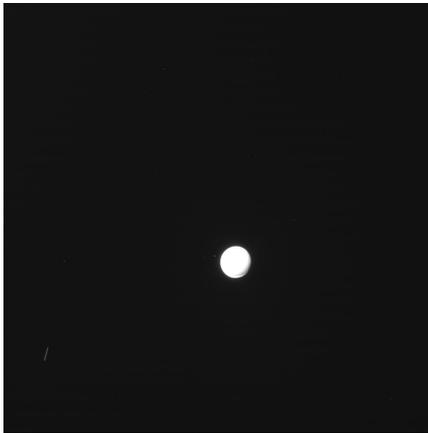
2012-267T17:18

Alt= 888,574 km

Longitude=4°W

Latitude=16.3°S

Phase=158°



Mimas was not in the UVIS slit

185MI_ICYLON001_ISS

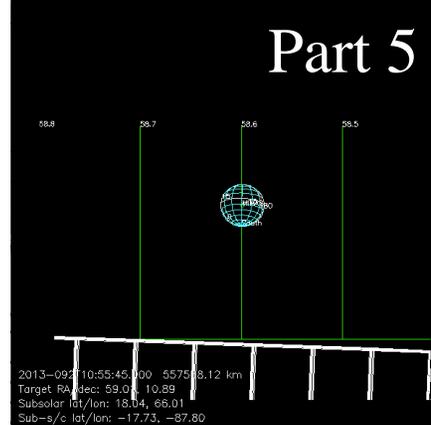
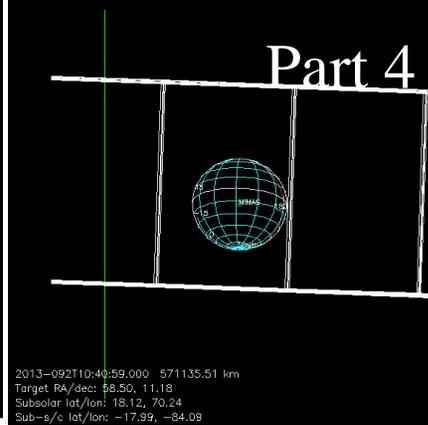
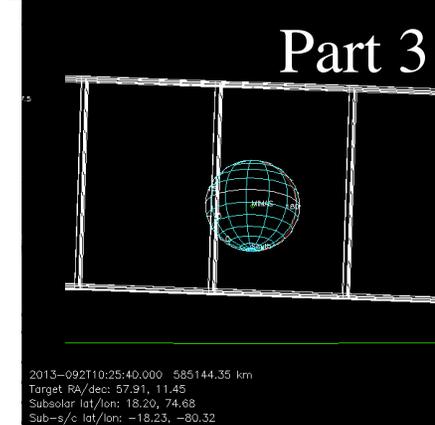
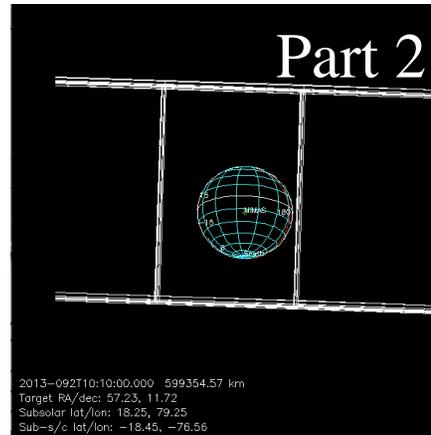
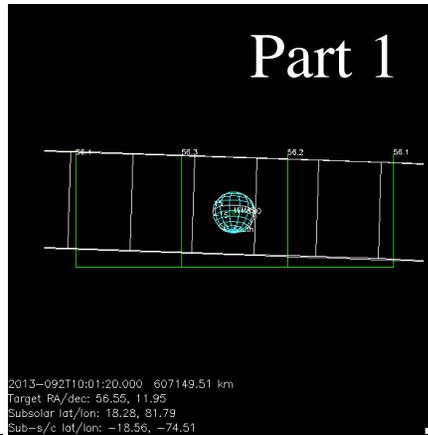
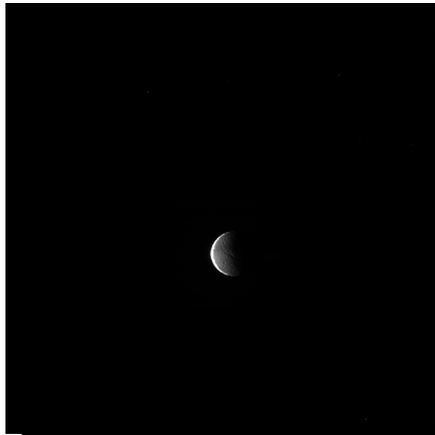
2013-092T10:02

Alt= 604,259 km

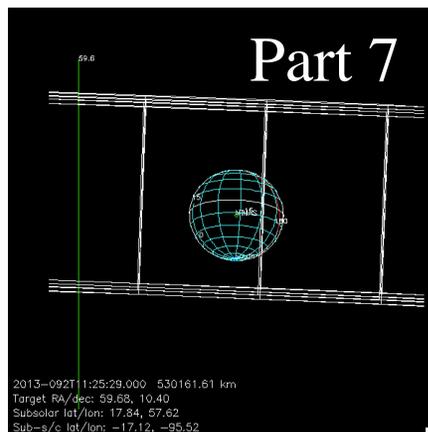
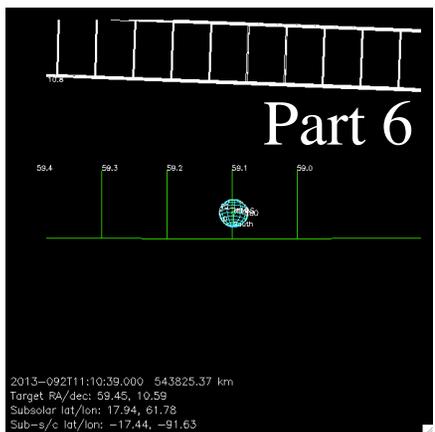
Longitude=75°W

Latitude=19°S

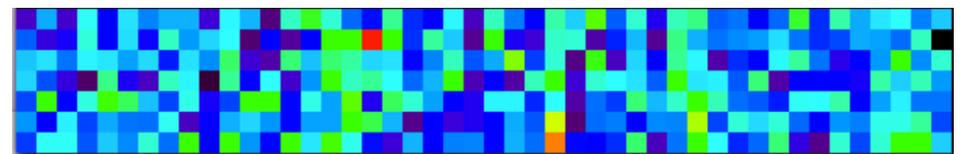
Phase=160°



Low SNR



Part 2



189MI_ICYLON001_PRIME

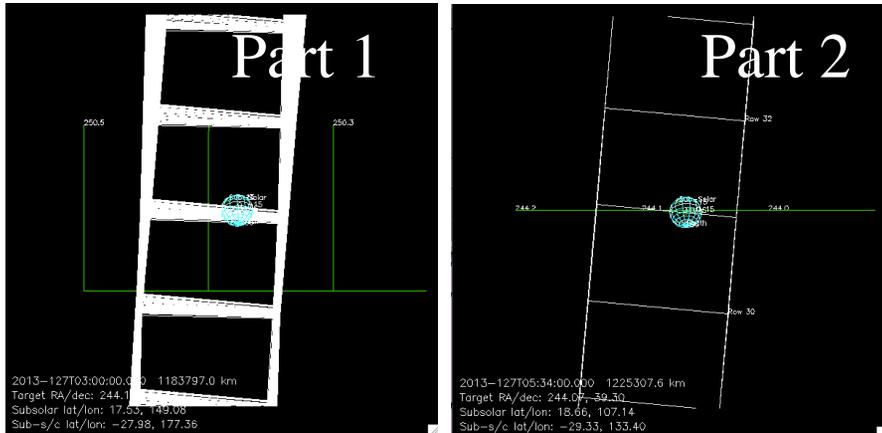
2013-127T03:01

Alt= 1,197,346 km

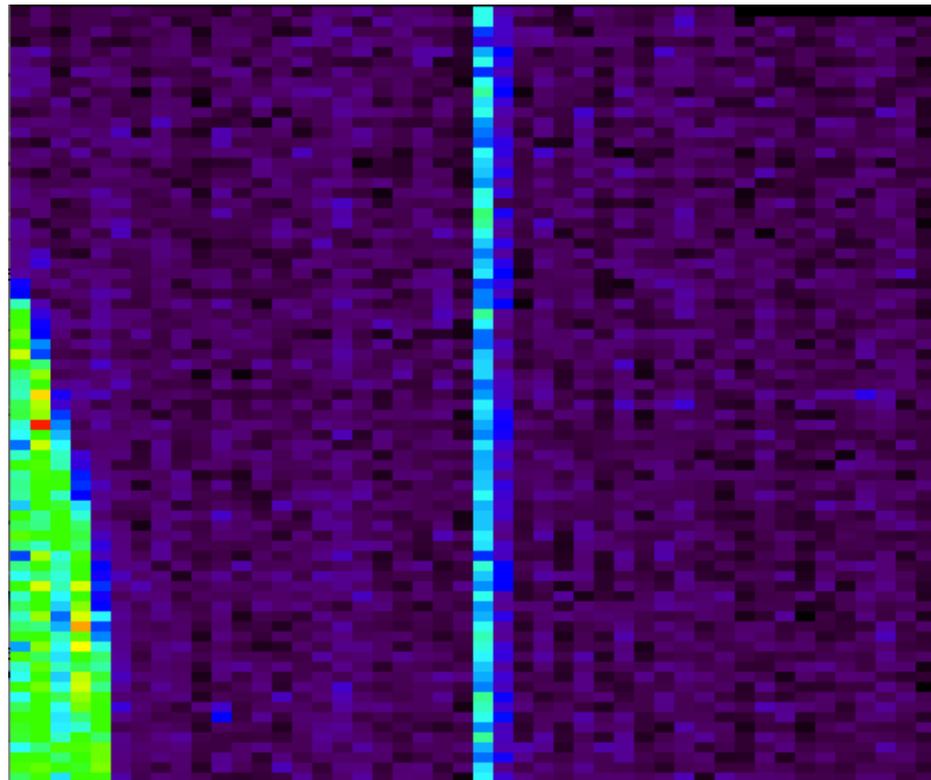
Longitude=204°W

Latitude=28.7°S

Phase=58.6°



No ISS rider



189MI_ICYLON002_PRIME

2013-127T17:24

Alt= 1,356,111 km

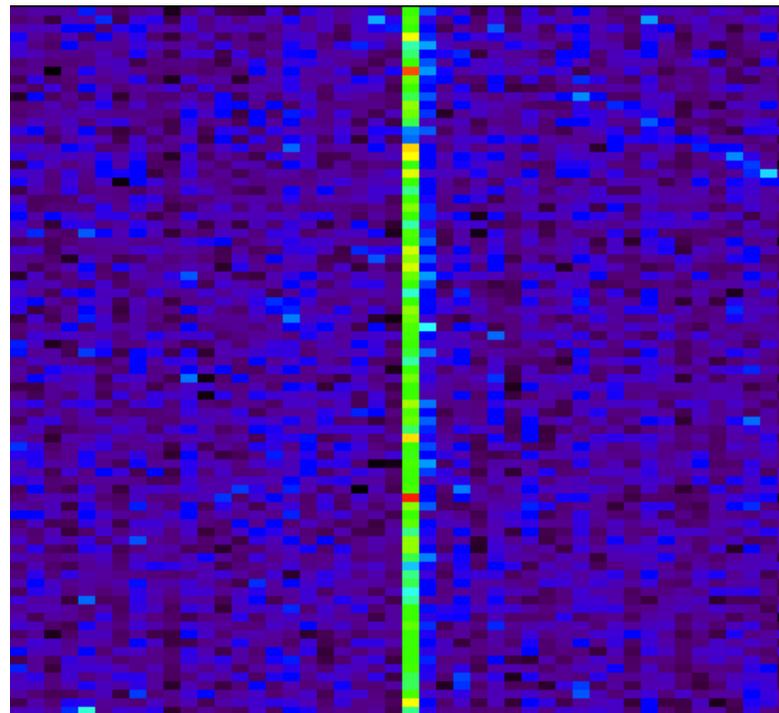
Longitude=57°W

Latitude=31°S

Phase=68.5°



No ISS rider



190MI_ICYLON001_CIRS

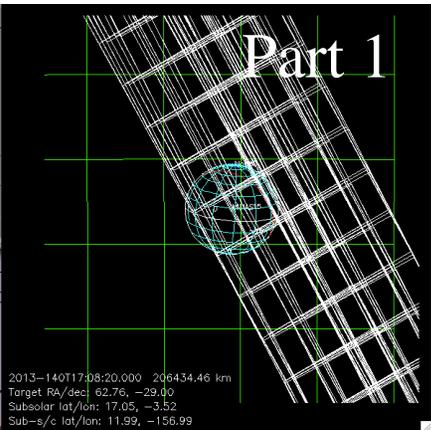
2013-140T17:08

Alt= 202,342 km

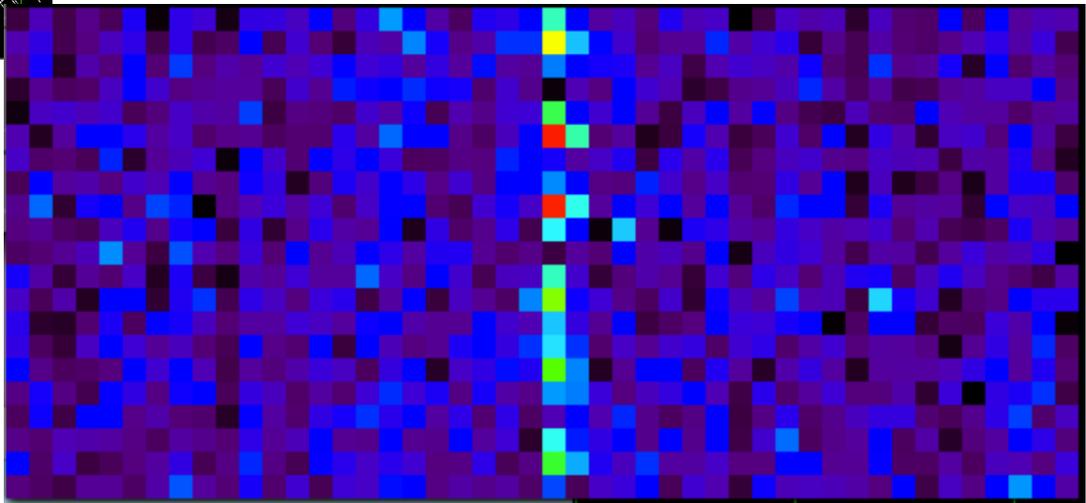
Longitude=164°W

Latitude=15.5°N

Phase=133.9°



Part 1



193MI_ICYLON001_ISS

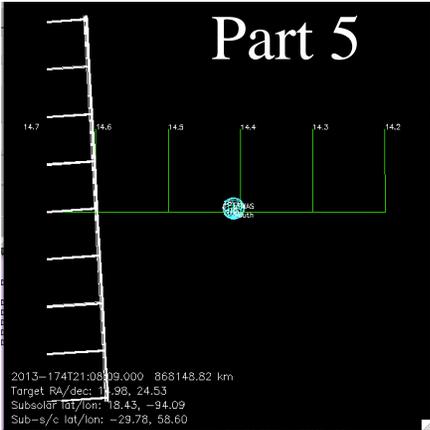
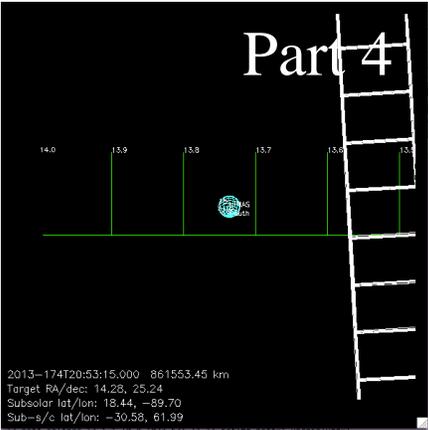
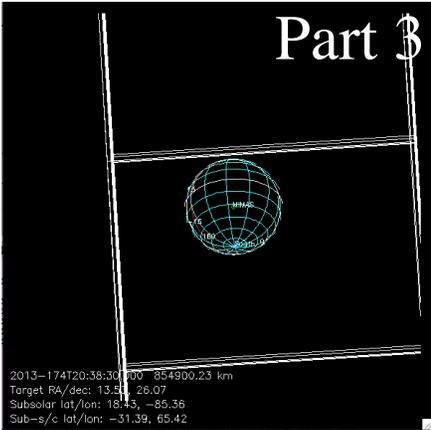
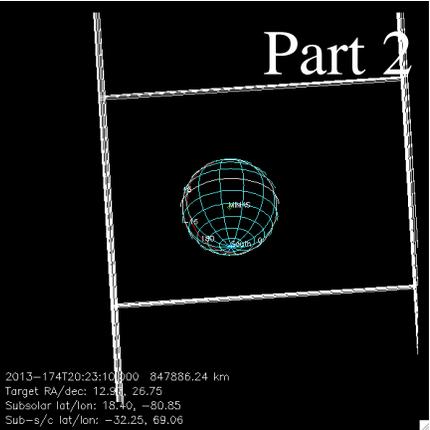
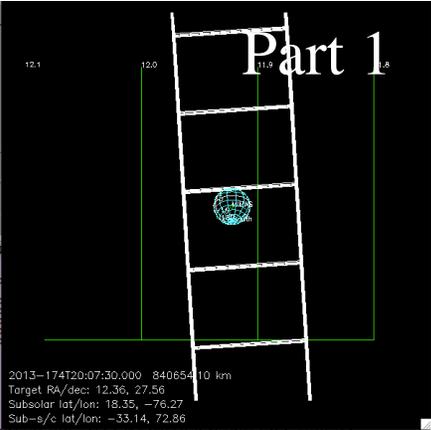
2013-174T20:08

Alt= 843,232 km

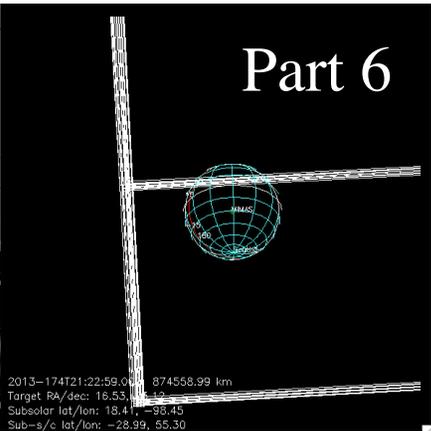
Longitude=289°W

Latitude=32.8°S

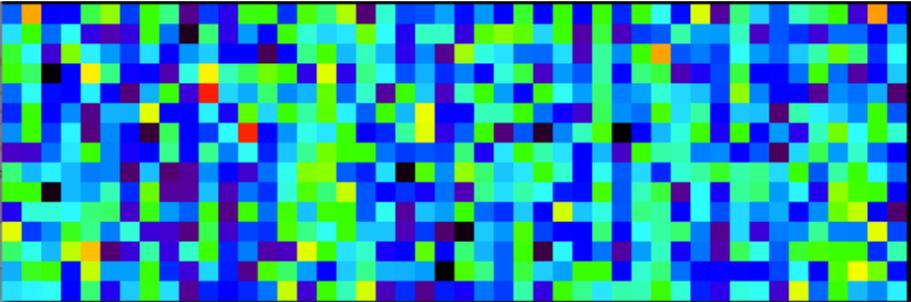
Phase=151°



Low SNR



Part 6



207MI_ICYLON001_PRIME

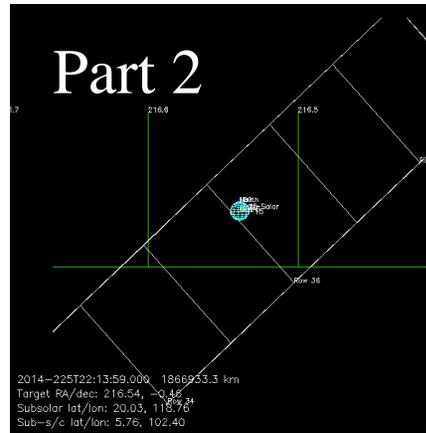
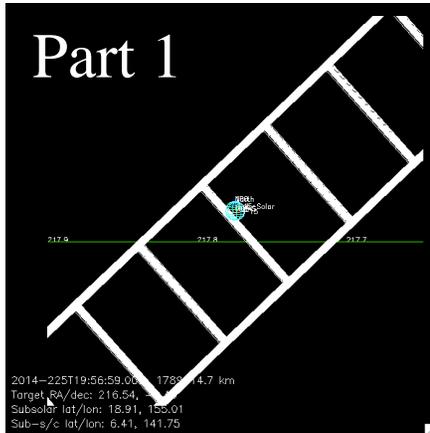
2014-225T19:56

Alt= 1,825,274 km

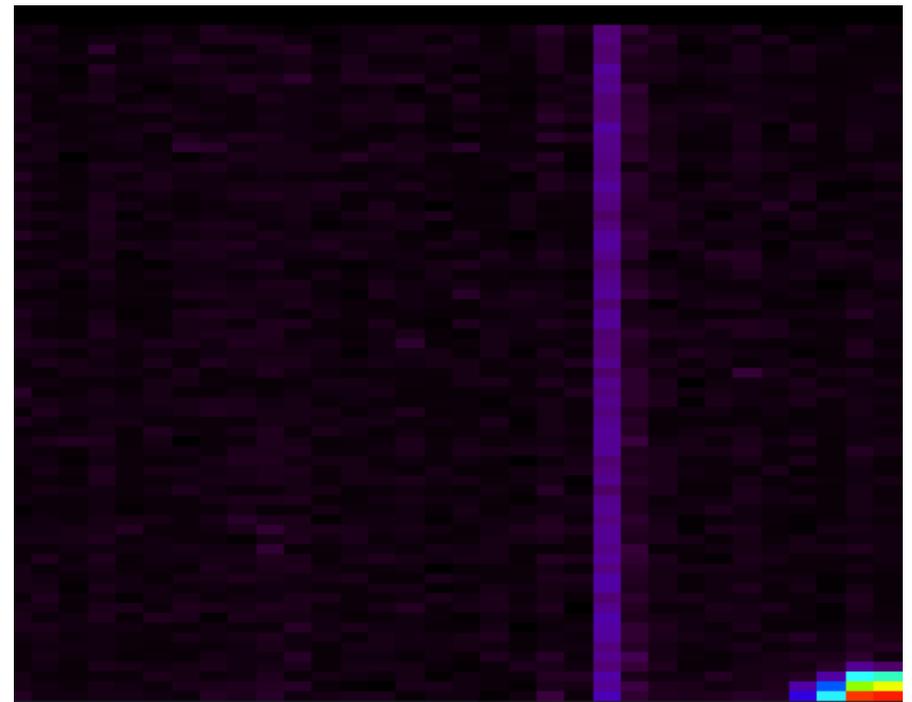
Longitude=238°W

Latitude=6°N

Phase=20.6°



No ISS rider



211MI_ICYLON001_PRIME

2015-001T17:57

Alt= 2,612,642 km

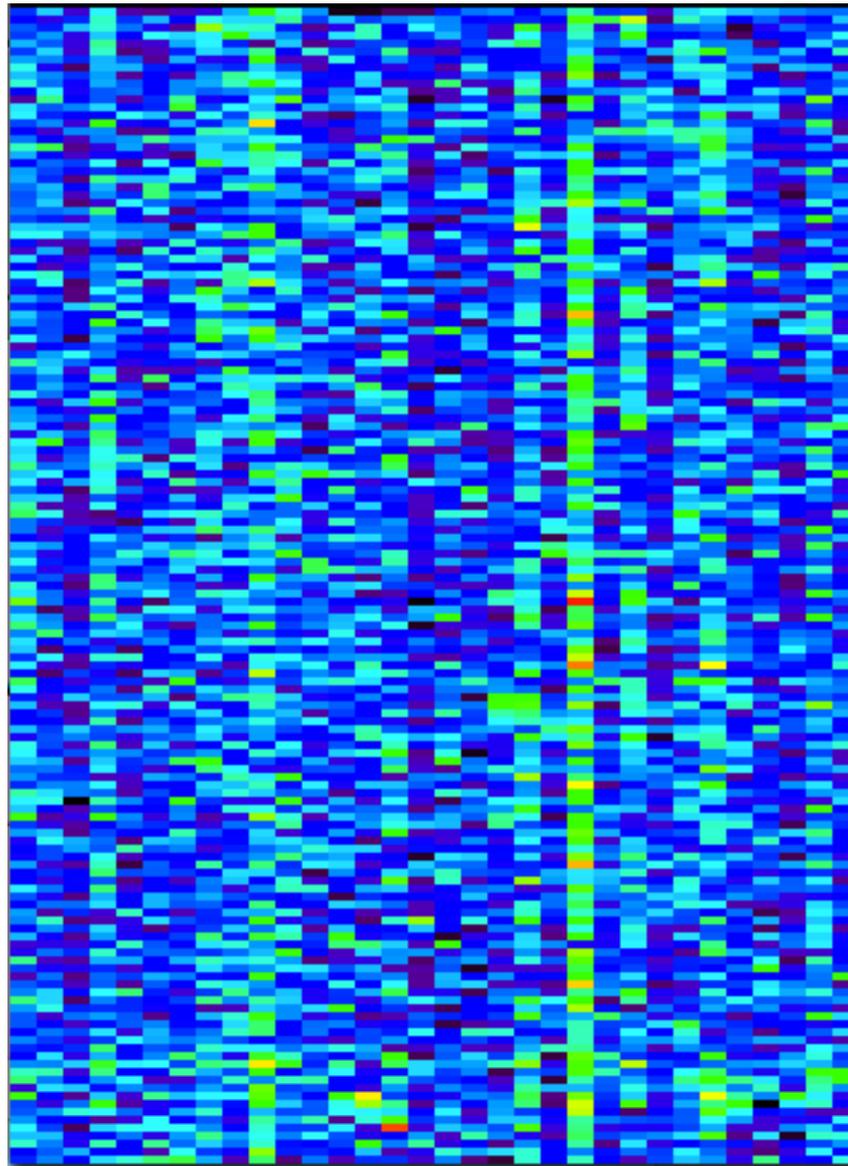
Longitude=169°W

Latitude=25°N

Phase=85°



No ISS rider



Low SNR

211MI_ICYLON002_PRIME

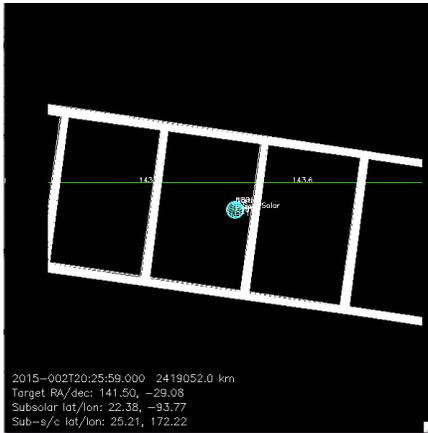
2015-002T20:26

Alt= 2,425,576 km

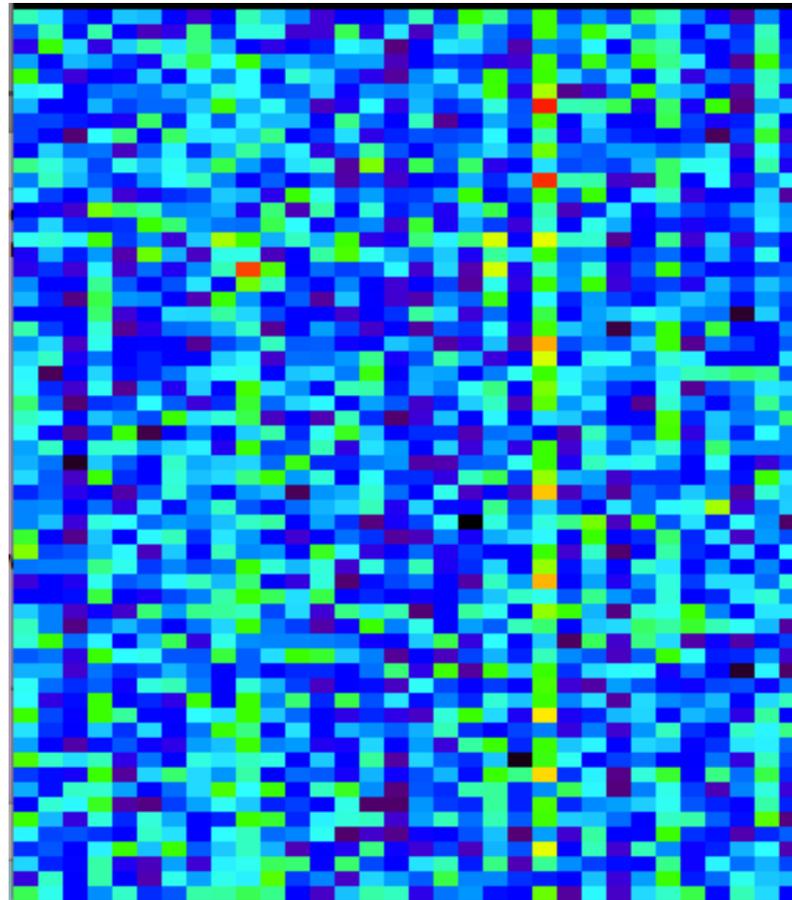
Longitude=203°W

Latitude=25°N

Phase=84°



No ISS rider



Low SNR

211MI_ICYLON004_PRIME

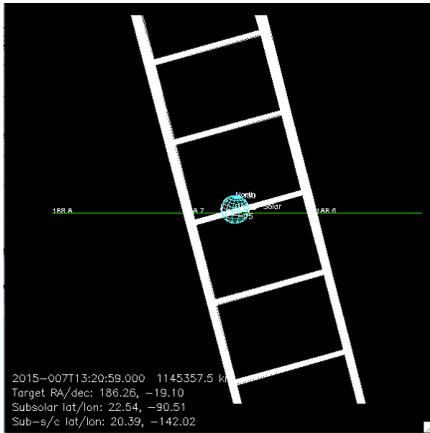
2015-007T13:21

Alt= 1,113,748 km

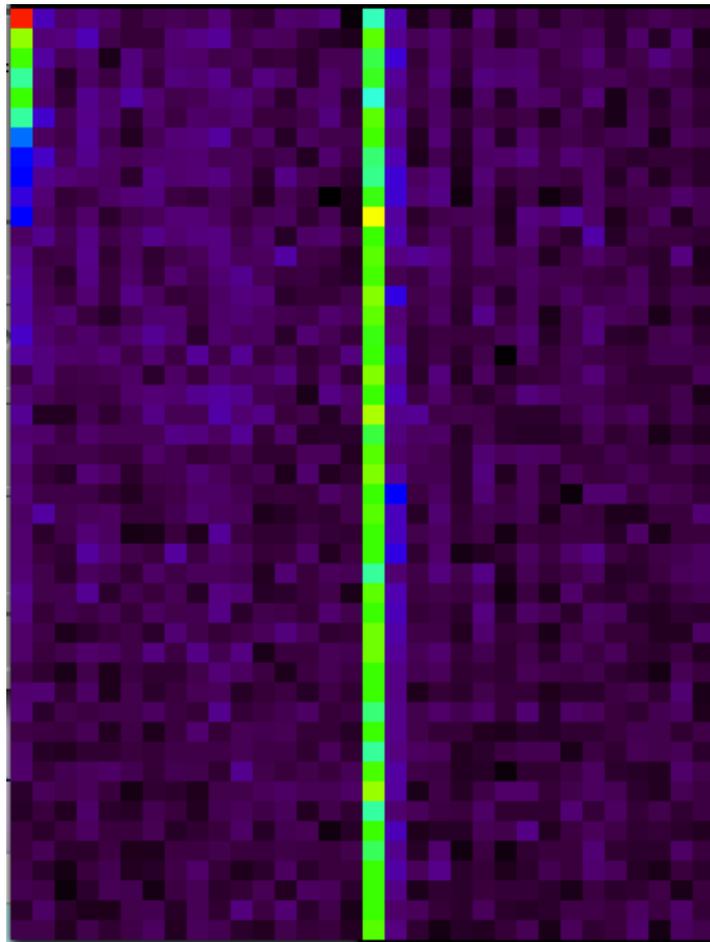
Longitude=155°W

Latitude=20°N

Phase=45°



No ISS rider



230MI_ICYLON001_ISS

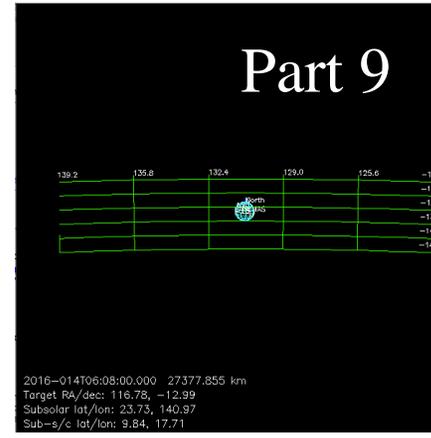
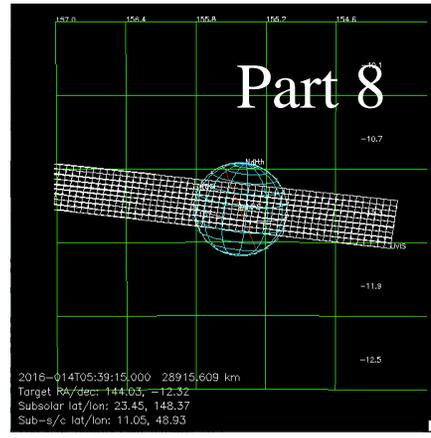
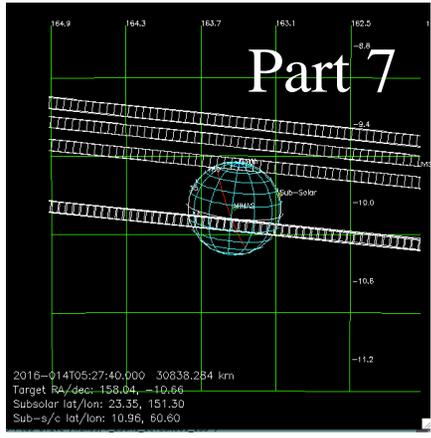
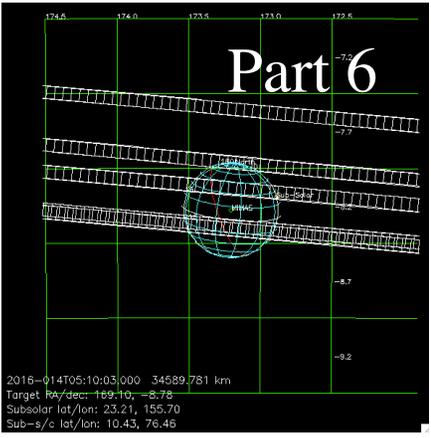
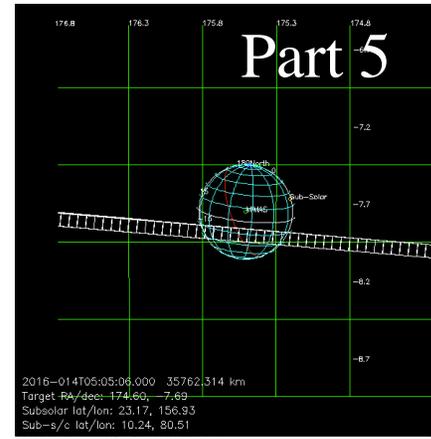
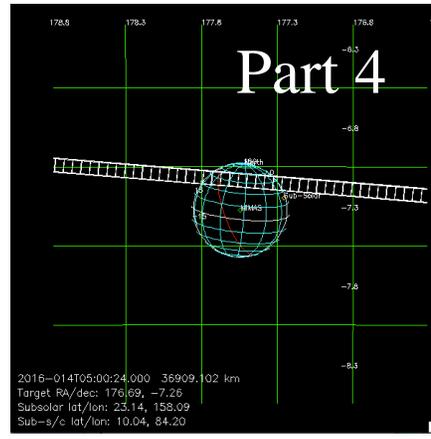
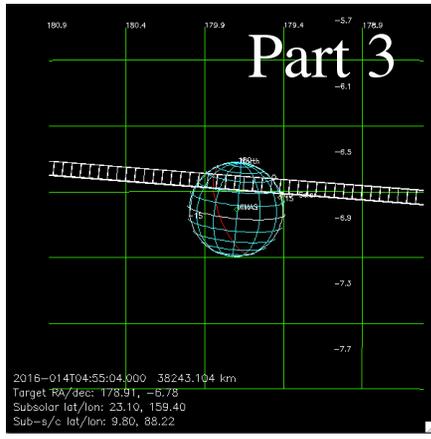
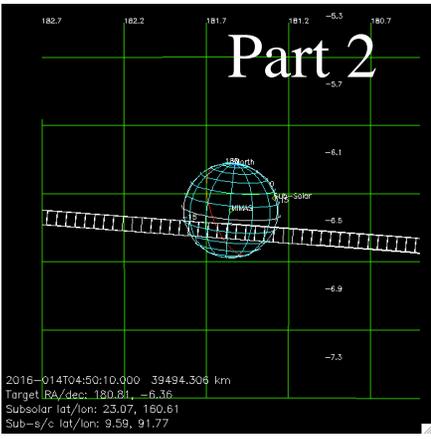
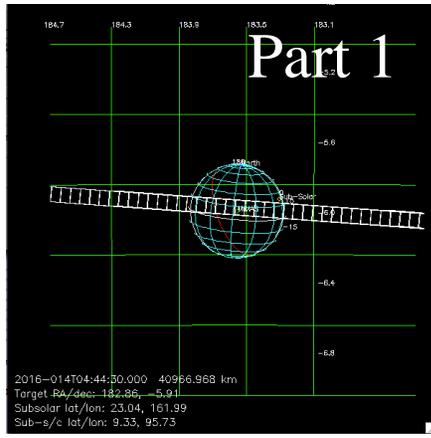
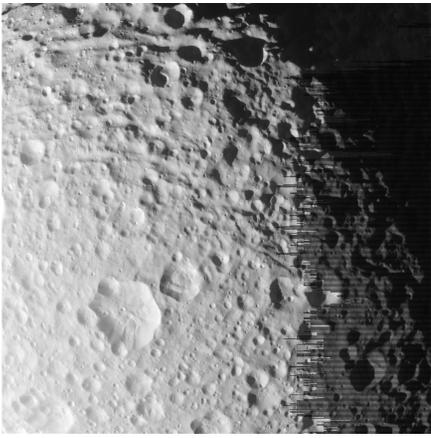
2016-014T04:45

Alt= 40,509 km

Longitude=265°W

Latitude=9°N

Phase=63.6°



233MI_ICYLON001_CIRS

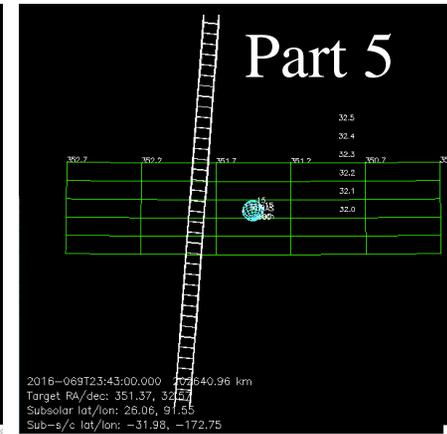
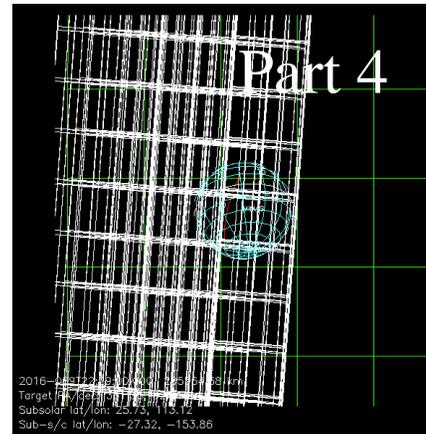
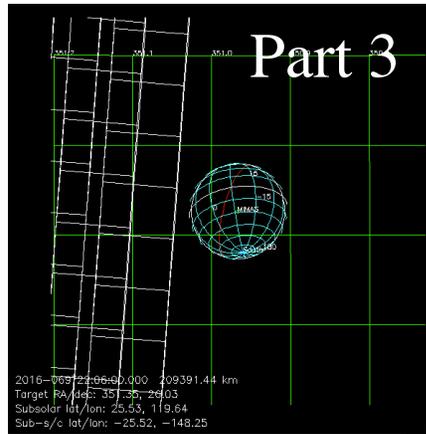
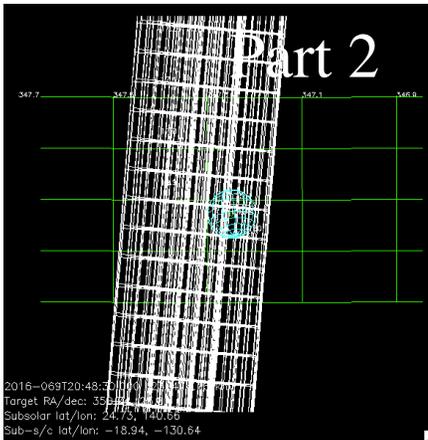
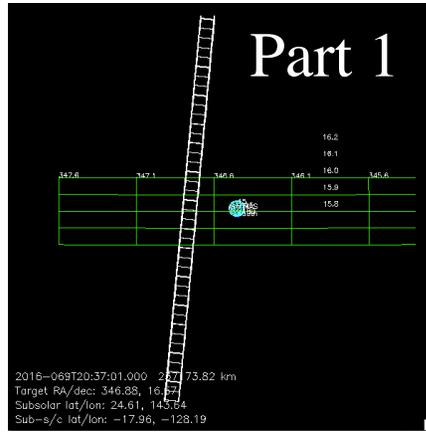
2016-069T20:38

Alt= 235,723 km

Longitude=129°W

Latitude=18.2°S

Phase=102.6°



238MI_LOPHASE001_PIE

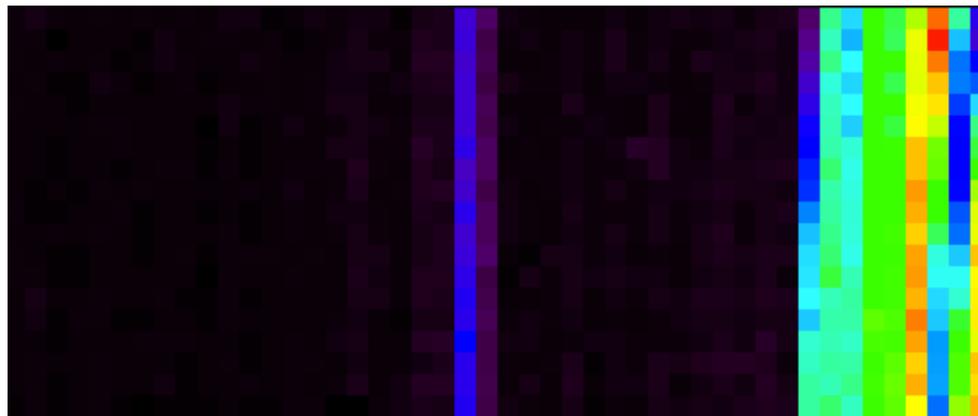
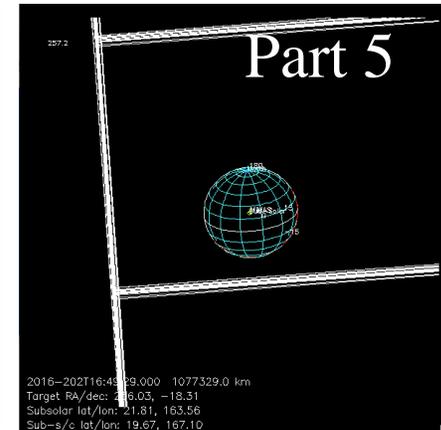
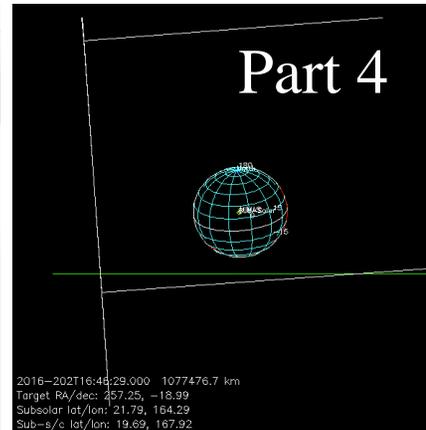
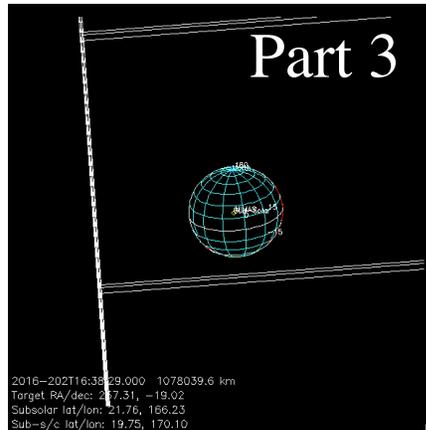
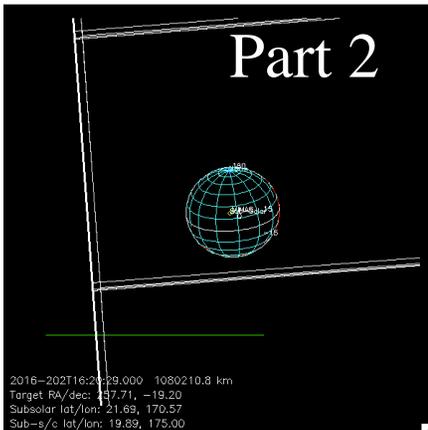
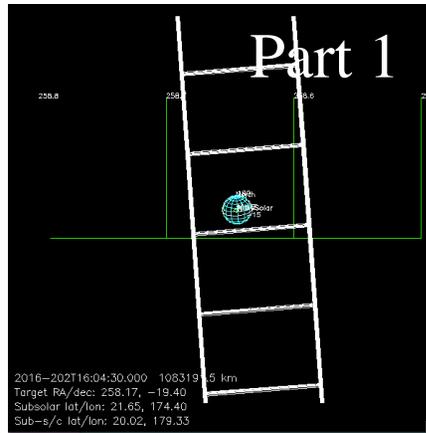
2016-202T16:05

Alt= 1,081,600 km

Longitude=182.6°W

Latitude=20°N

Phase=5°



Part 5

244MI_LOPHASE001_PIE

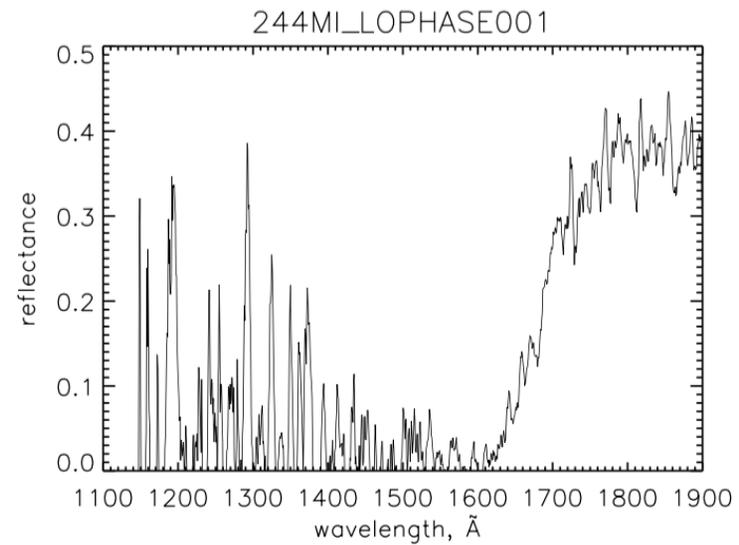
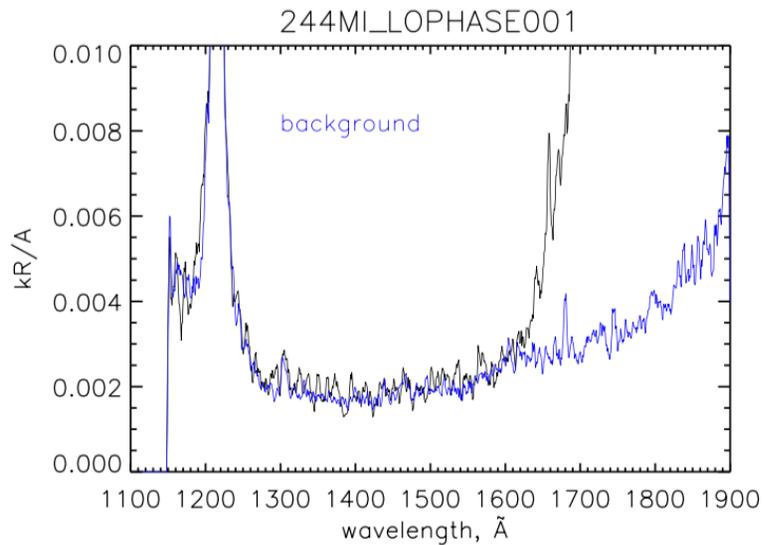
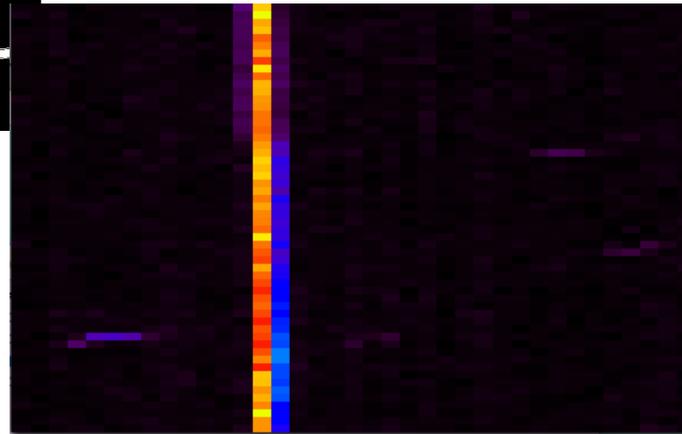
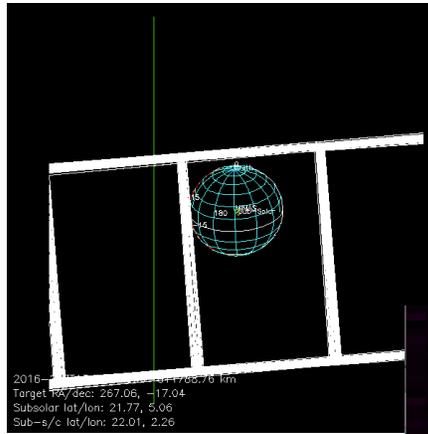
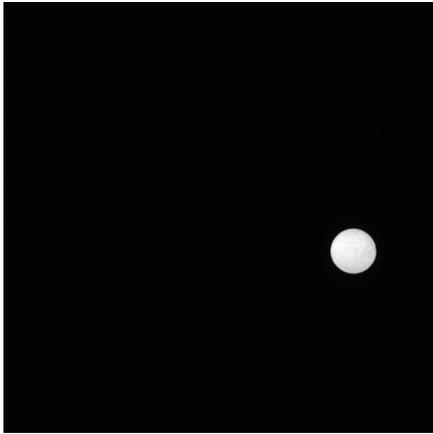
2016-277T13:38

Alt= 599,028 km

Longitude=68.6°W

Latitude=19.7°N

Phase=5.1°



246MI_ICYLON002_CIRS

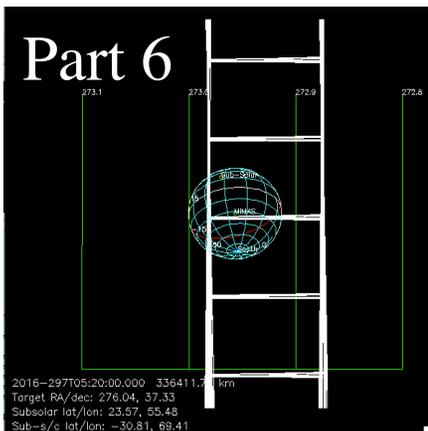
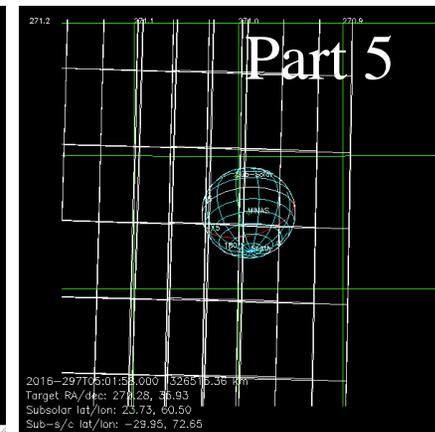
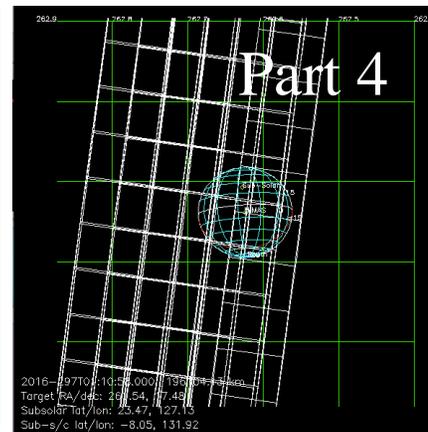
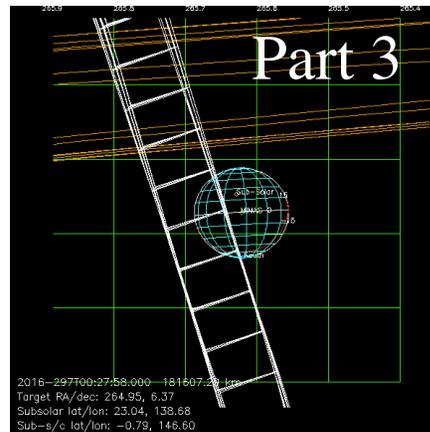
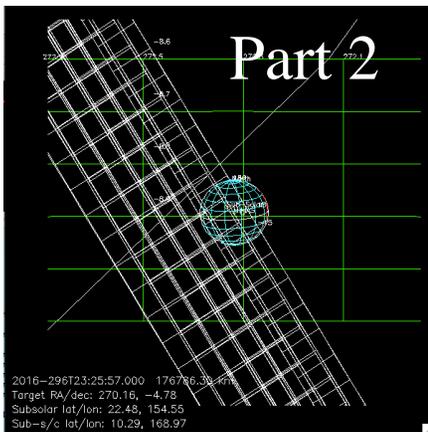
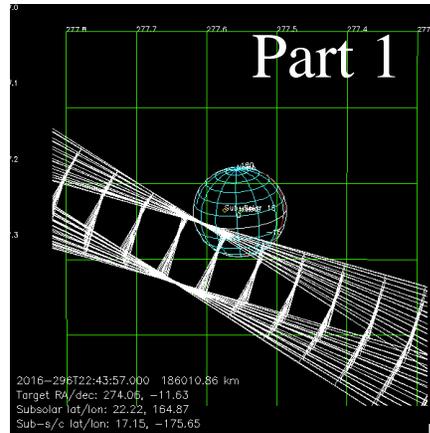
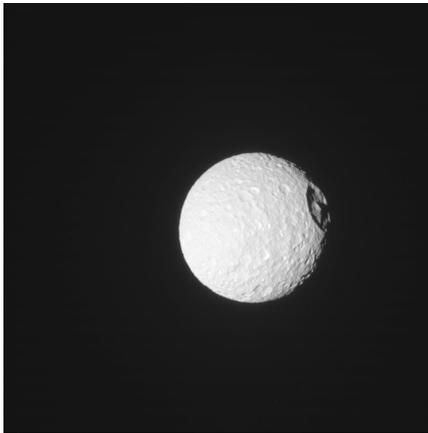
2016-296T22:44

Alt= 181,839 km

Longitude=181°W

Latitude=15°N

Phase=20°



Part 6
(Mimas in row ~56)

249MI_ICYMAP001_CIRS

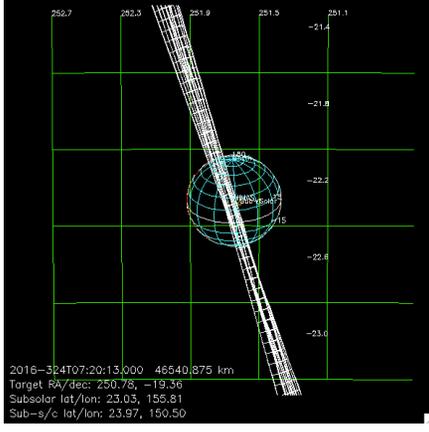
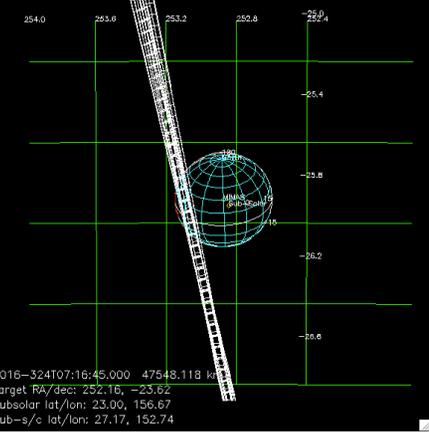
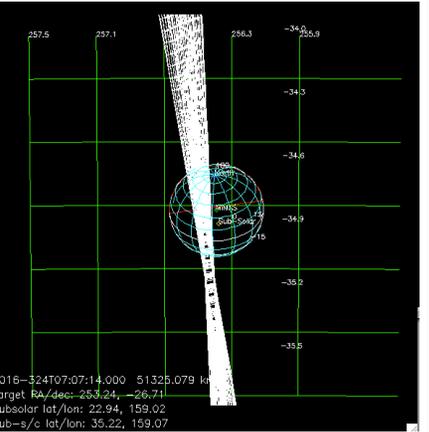
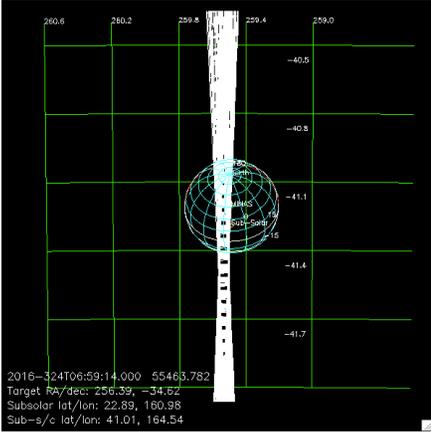
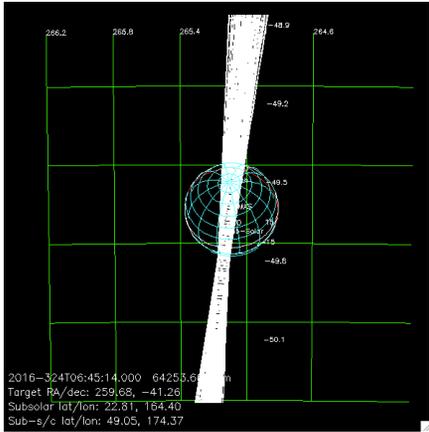
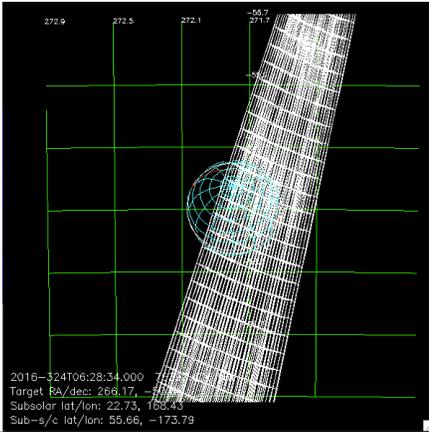
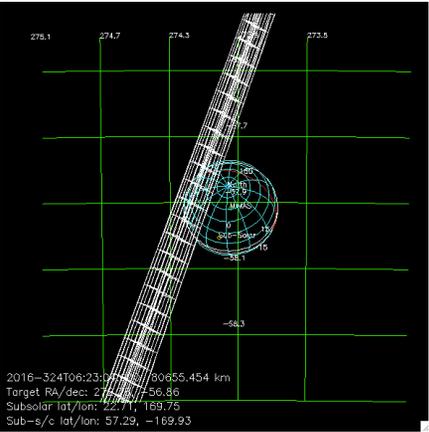
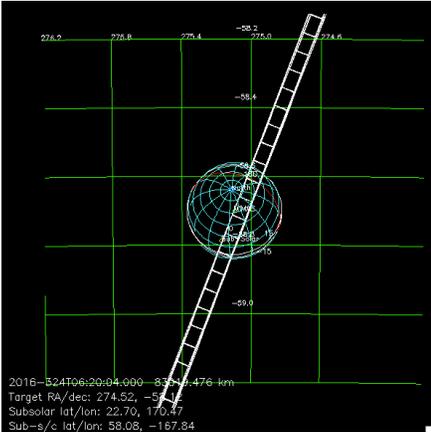
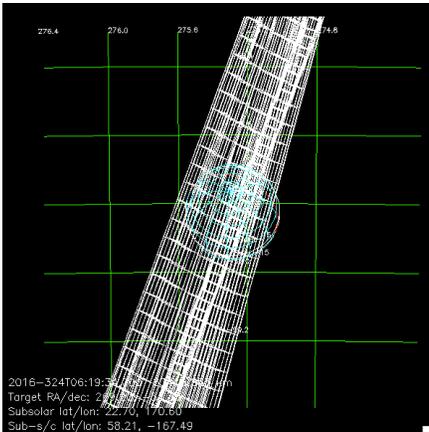
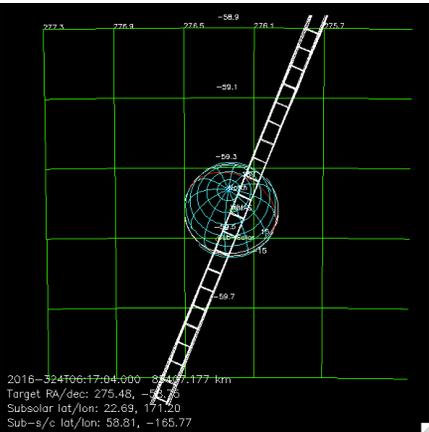
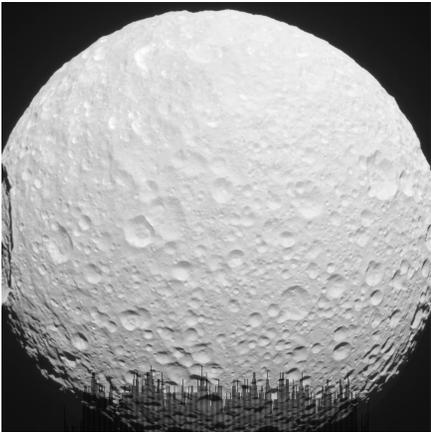
2016-324T06:17

Alt= 84,415 km

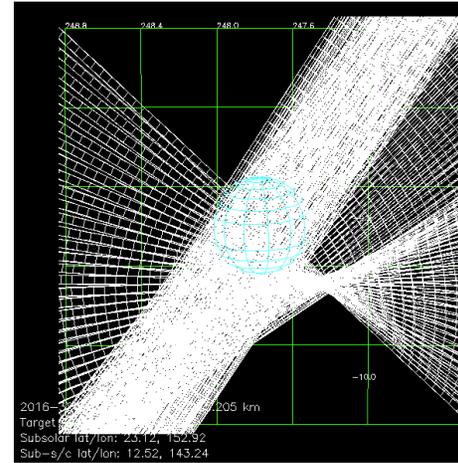
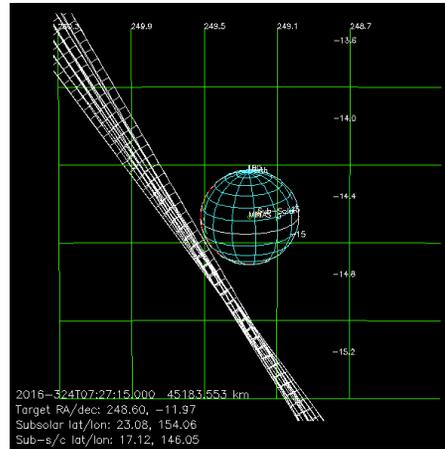
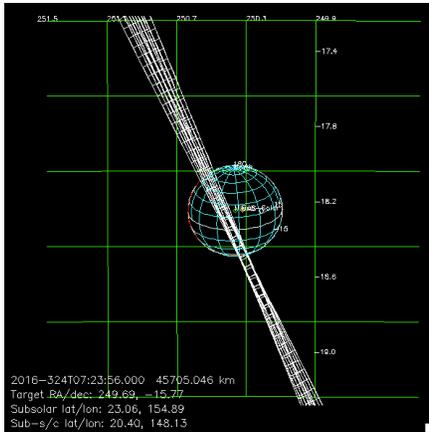
Longitude=167°W

Latitude=59°N

Phase=39.8°



249MI_ICYMAP001_CIRS, cont'd



259MI_ICYLON001_ISS

2017-030T21:14

Alt= 42,210 km

Longitude=332°W

Latitude=10°S

Phase=123°

