

Ymir

Tilmann Denk

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Introduction

This pdf file is heavily loaded with information on Ymir data and data acquisition actually used by the Cassini spacecraft. It is intended to document as much information as possible from what I have done to produce the irregular moon images. It includes most IOI files ("decoded"; in "readable" format) that were used to command the Cassini Ymir observations with the ISS camera.

For preparation of the observations, I made intensive use of the "notes field" in ISSPT to have the most relevant specific information (like object geometry, filter usage strategy, pointing offsets, dark frames, and other specifics) in hand while working out the shutters. This information is also included here for each observation request.

The text enhancements were not part of the original IOI files. Furthermore, after downlink of the images to Earth, I also added information on the downlinks, on data losses, and on the object location in the images (especially for the observation requests later in the mission).

For more information and scientific results, check out my **Outer Moons of Saturn** website (<https://tilmandenk.de/outersaturnianmoons/>) and my **individual irregular-moon pages** (links are provided at <https://tilmandenk.de/outersaturnianmoons/#1>) as well as the links therein.

Definitions and abbreviations

ISSPT	ISS Planning Tool; software with the purpose of planning ISS observations
PDT	Pointing Design Tool; from JPL, used to command the spacecraft attitude and instrument triggering for individual observations; created BC (c-kernel) and SFOF files.
IOI	ISS Operation Interface; camera command file
SFOF.....	"Shortform"; the file that commanded the spacecraft attitude and the trigger; created with PDT.
Trigger	Unique number that connected the IOI file with the SFOF; the latter contained a command that "triggers" the IOI at a well-defined time.
Telemetry Rate	Defined the rate for sending data from the ISS device to the SSR recorder. S&ER3 was almost exclusively used for the irregular moons.
Footprint.....	One "pointing"; for example, a 2x3 mosaic has 6 footprints
SSR.....	Solid State Recorder – two data storage devices onboard Cassini. Both SSRs (SSR-A and SSR-B) together had a capacity of a little bit less than 4 Gb (Gigabits).
Tracking duration ...	Duration Cassini followed ("tracked") the target object, in units of hh:mm:ss.
NAC.....	Narrow Angle Camera of the ISS
WAC.....	Wide Angle Camera of the ISS
Darks.....	Dark frames; used same parameters as the regular images, but the shutter opening was inhibited. Intended to use for data calibration.
Range.....	Distance between Cassini and the targeted irregular moon.
NAC res.	Spatial resolution of the irregular moon in the NAC for un-binned images.
Calc. mag.	Predicted visual magnitude of the irregular moon during the observation.
Saturn angle.....	Angle between object (irregular moon) and Saturn with Cassini as the vertex.
Earth angle.....	Angle between object (irregular moon) and Earth with Cassini as the vertex. A value between 75° and 105° (90° ± 15°) was best with respect to planning of the reaction-wheel turns which were a major issue during the implementation stage of planning (see also https://tilmandenk.de/cassiniplanning/).
RA/Dec.....	Right ascension and Declination of the irregular moon in the sky of Cassini; see also sheet (8B) of each individual irregular moon website.
7OFFSET.....	Command to slightly shift the pointing away from the original tracking point. X offsets caused a horizontal shift of the object, Z offsets a vertical (Y were not used, these would just have caused a twist). Positive directions were left and down, unit is milliradians. The 7OFFSET command was set with PDT.
clr.....	Broadband 'clear' filter. Used color filters were 'Ultraviolet' (Uv3), 'Blue' (Bl1), 'Green' (Grn), an 'Infrared' (Ir1 or Ir2 or Ir3), and others.
2sum	Observation done in "summation mode" (2x2 pixel binning resulting in an image 512x512 pixels wide, not 1024x1024). Rarely, 4sum was used (binning 16 pixels, resulting in 256x256 pixel images).
fullres.....	Observation done with no binning (image size: 1024x1024 pixels).
AB	Anti-blooming; when 'ON', it suppressed electron flow into neighboring pixels in case of strong saturation. However, we found that using ab=ON reduced the photometric accuracy by about one order of magnitude.

Information that was not part of the IOI, but added to the file after data downlink:

Data policing..... When ISS sent more data to the SSR than allocated to ISS (all ISS observations on a particular day), the SSR stopped recording and the final images were not recorded anymore – but lost.

Object location Approximate location of the irregular moon in the image, in x,y or sample,line coordinates, with the origin at upper left. "Ftrprt" = "footprint".

Single frames listing:

IM# Offset C Bot Cat Exp Sum G Cnv Cm FW1 FW2 BPP SSR PFW PDN FT I L/C

IM# Image number

Offset..... Time offset from trigger start

C..... Camera (N = NAC, W = WAC)

Bot "BOTSIM" ("both simultaneously"); indicates if NAC and WAC were operated simultaneously.

Cat Image category; SC = "science"

Exp Exposure time in seconds

Sum..... Summation mode (pixel binning): 1x1, 2x2, or 4x4

G Gain state: 0 (## e⁻/DN), 1 (## e⁻/DN), 2 (29 e⁻/DN), or 3 (13 e⁻/DN).
e⁻ = electrons; DN = 'data number' (number of possible different gray values). For 8-bit data, 0 ≤ DN ≤ 255, for 12-bit data, 0 ≤ DN ≤ 4095.

Cnv Conversion type; 'none' = 12-bit data (exclusively used for the lightcurves; other options were 'LUT' = 8-bit data through look-up table and 'L8SB' = least eight significant bits)

Cm..... Compression; 'LL' = Huffman lossless (nothing else was used for the lightcurves)

FW1 FW2 Filter wheel 1 and 2

BPP..... Bits per pixel (but not accurate, see next note (SSR)).

SSR Megabits needed for this single frame. However, this number was mostly too low. More realistic was ~1.6...1.7 Mb for a typical 220s clr 2-sum g=2 exposure.

PFW, PDN Information on saturation; not relevant because ISSPT had no brightness information for the irregulars (except Phoebe).

FT Frame Time; total amount of time needed to prepare the image, execute the shutter, and readout the data, in seconds.

I..... Information if additional settings not shown in the table were used (Y=yes, N=no)

L/C..... Loops/cyclics; command options not used for the irregulars.

v v v G34 DOY 300 v v v [example] ... Information on detailed downlink (added after downlink). DSN (deep space network): M=Madrid, G=Goldstone, C=Canberra; 34=34 meters, 70 = 70 meters. DOY=day-of-year; 'v v v' = downlink begin, '^ ^ ^' = downlink end.

Team member Tilmann Denk, Thomas Roatsch
 SFOF name ISS_063OT_YMIR096_PRIME_3
 Trigger # 2882
 Telemetry Rate S&ER5 (48)
 number footprints 1
 number param sets 19
 number of images 19
 total Data Volume 20.9745
 total Duration 0:29:46

Alloc. SSR = 40 Mb.

Rot. curve: 18 clr 2sum exp=82s; spaced apart by 98 or 99s.

[Last frame (no-op): was necessary due to an ISSPT Time Table display bug.]

Range = 18.46 mio km; phase = 54 deg; NAC res. = 111 km/pxl.

ab = ON

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
2	0:01:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
3	0:03:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
4	0:04:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
5	0:06:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
6	0:08:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
7	0:09:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
8	0:11:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
9	0:13:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
10	0:14:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
11	0:16:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
12	0:18:07	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
13	0:19:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
14	0:21:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
15	0:23:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
16	0:24:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
17	0:26:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
18	0:27:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
19	0:29:35	N	NO	SC	-999	2x2	2	None	LL	CL1	CL2	3.00	.000	.00	.00	11	N	

Team member Tilmann Denk, Thomas Roatsch
 SFOF name ISS_064OT_YMIR099_PRIME_3
 Trigger # 2881
 Telemetry Rate S&ER3 (24)
 number footprints 1
 number param sets 314
 number of images 314
 total Data Volume 451.523
 total Duration 9:11:59

Alloc. SSR = 500 Mb. TelMode = S&ER-3.

Rotation curve: 278 clr 2sum exp=82s gain=2; spaced (mostly) every 104 sec (no wait time between shutters).

ab = ON

Full-res.: 3 clr (gain=3) four times embedded in color shutters.

Color: N06 (2sum) four times evenly spread around tracking time.

Range = 18.5 mio km; phase = 55 deg; NAC res. = 111 km/pxl.

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
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Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)

1	0:00:07	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
2	0:01:51	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
3	0:03:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
4	0:05:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
5	0:07:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
6	0:08:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
7	0:10:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
8	0:12:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
9	0:13:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
10	0:15:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
11	0:17:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
12	0:19:11	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
13	0:20:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
14	0:22:39	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N	
15	0:25:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
16	0:26:45	N	NO	SC	82.0	2x2	3	None	LL	CL1	UV3	6.50	1.78	.00	.00	104	N	
17	0:28:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
18	0:30:13	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N	
19	0:31:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
20	0:33:41	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N	
21	0:35:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
22	0:37:09	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N	
23	0:39:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
24	0:41:15	N	NO	SC	82.0	2x2	3	None	LL	BL1	CL2	6.50	1.78	.00	.00	104	N	
25	0:42:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
26	0:44:43	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N	
27	0:46:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
28	0:48:11	N	NO	SC	82.0	2x2	3	None	LL	IR2	CL2	6.50	1.78	.00	.00	104	N	
29	0:49:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
30	0:51:39	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N	
31	0:54:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
32	0:55:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
33	0:57:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
34	0:59:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
35	1:00:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
36	1:02:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
37	1:04:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
38	1:06:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
39	1:07:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
40	1:09:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
41	1:11:21	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
42	1:13:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	

171	4:58:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
172	5:00:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
173	5:02:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
174	5:03:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
175	5:05:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
176	5:07:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
177	5:08:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
178	5:10:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
179	5:12:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
180	5:14:11	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
181	5:15:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
182	5:17:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
183	5:19:23	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
184	5:21:07	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
185	5:22:51	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
186	5:24:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
187	5:26:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
188	5:28:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
189	5:29:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
190	5:31:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
191	5:33:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
192	5:34:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
193	5:36:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
194	5:38:27	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
195	5:40:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
196	5:42:33	N	NO	SC	82.0	2x2	3	None	LL	CL1	UV3	6.50	1.78	.00	.00	104	N
197	5:44:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
198	5:46:01	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N
199	5:47:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
200	5:49:29	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N
201	5:51:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
202	5:52:57	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
203	5:55:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
204	5:57:03	N	NO	SC	82.0	2x2	3	None	LL	BL1	CL2	6.50	1.78	.00	.00	104	N
205	5:58:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
206	6:00:31	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N
207	6:02:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
208	6:03:59	N	NO	SC	82.0	2x2	3	None	LL	IR2	CL2	6.50	1.78	.00	.00	104	N
209	6:05:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
210	6:07:27	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
211	6:09:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
212	6:11:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
213	6:13:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
214	6:15:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
215	6:16:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
216	6:18:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
217	6:20:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
218	6:21:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
219	6:23:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
220	6:25:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
221	6:27:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
222	6:28:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
223	6:30:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
224	6:32:21	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
225	6:34:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
226	6:35:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
227	6:37:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
228	6:39:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
229	6:41:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
230	6:42:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
231	6:44:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
232	6:46:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
233	6:47:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
234	6:49:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N

235	6:51:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
236	6:53:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
237	6:54:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
238	6:56:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
239	6:58:21	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
240	7:00:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
241	7:01:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
242	7:03:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
243	7:05:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
244	7:07:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
245	7:08:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
246	7:10:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
247	7:12:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
248	7:13:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
249	7:15:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
250	7:17:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
251	7:19:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
252	7:20:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
253	7:22:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
254	7:24:21	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
255	7:26:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
256	7:27:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
257	7:29:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
258	7:31:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
259	7:33:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
260	7:34:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
261	7:36:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
262	7:38:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
263	7:39:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
264	7:41:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
265	7:43:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
266	7:45:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
267	7:46:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
268	7:48:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
269	7:50:21	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
270	7:52:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
271	7:53:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
272	7:55:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
273	7:57:17	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
274	7:59:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
275	8:00:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
276	8:02:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
277	8:04:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
278	8:05:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
279	8:07:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
280	8:09:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
281	8:11:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
282	8:12:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
283	8:14:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
284	8:16:21	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
285	8:18:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
286	8:20:27	N	NO	SC	82.0	2x2	3	None	LL	CL1	UV3	6.50	1.78	.00	.00	104	N
287	8:22:11	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
288	8:23:55	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N
289	8:25:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
290	8:27:23	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N
291	8:29:07	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
292	8:30:51	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
293	8:33:13	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
294	8:34:57	N	NO	SC	82.0	2x2	3	None	LL	BL1	CL2	6.50	1.78	.00	.00	104	N
295	8:36:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
296	8:38:25	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N
297	8:40:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
298	8:41:53	N	NO	SC	82.0	2x2	3	None	LL	IR2	CL2	6.50	1.78	.00	.00	104	N

299	8:43:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
300	8:45:21	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
301	8:47:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
302	8:49:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
303	8:51:11	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
304	8:52:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
305	8:54:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
306	8:56:23	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
307	8:58:07	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
308	8:59:51	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
309	9:01:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
310	9:03:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
311	9:05:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
312	9:06:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
313	9:08:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
314	9:10:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N

Team member Tilmann Denk, Thomas Roatsch
 SFOF name ISS_088OT_OUTERSATS001_PRIME_4
 Trigger # 2471
 Telemetry Rate S&ER5 (48)
 number footprints 1
 number param sets 59
 number of images 59
 total Data Volume 91.1939
 total Duration 1:48:17

Alloc. SSR = 90 Mb. Target is **Ymir**.
 Range = 18.7 mio km; phase = 40 deg; NAC res. = 112 km/pxl. Mag = 13.3.
 Seven times 2sum 2x NAC clr + 2sum WAC clr + 2sum N05 (Bl1, Grn, Red, Ir1, Ir2;
 Bl1 and Ir2 at 180s exp.)
 Two 2sum NAC clr + 2sum WAC clr at end.

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:01:00	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
2	0:01:00	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
3	0:02:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
4	0:04:27	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	
5	0:06:05	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N	
6	0:07:43	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N	
7	0:10:57	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N	
8	0:12:35	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N	
9	0:15:50	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
10	0:15:50	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
11	0:17:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
12	0:19:17	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	
13	0:20:55	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N	
14	0:22:33	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N	
15	0:25:47	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N	
16	0:27:25	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N	
17	0:30:40	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
18	0:30:40	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
19	0:32:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
20	0:34:07	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	
21	0:35:45	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N	
22	0:37:23	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N	
23	0:40:37	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N	
24	0:42:15	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N	
25	0:45:30	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
26	0:45:30	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
27	0:47:19	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
28	0:48:57	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	
29	0:50:35	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N	
30	0:52:13	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N	
31	0:55:27	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N	
32	0:57:05	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N	
33	1:00:20	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
34	1:00:20	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
35	1:02:09	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
36	1:03:47	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	
37	1:05:25	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N	
38	1:07:03	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N	
39	1:10:17	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N	
40	1:11:55	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N	
41	1:15:10	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
42	1:15:10	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N	
43	1:16:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N	
44	1:18:37	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N	

45	1:20:15	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N
46	1:21:53	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N
47	1:25:07	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N
48	1:26:45	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N
49	1:30:00	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N
50	1:30:00	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N
51	1:31:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N
52	1:33:27	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	98	N
53	1:35:05	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	98	N
54	1:36:43	N	NO	SC	180.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	194	N
55	1:39:57	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	98	N
56	1:41:35	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	194	N
57	1:44:50	N	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N
58	1:44:50	W	BT	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	109	N
59	1:46:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	98	N

Team member Tilmann Denk (FU Berlin), Thomas Roatsch
(DLR Berlin)
SFOF name ISS_159OT_YMIPHA002_PRIME_4
Trigger # 2647
Telemetry Rate S&ER3 (24)
number footprints 1
number param sets 55
number of images **244**
total Data Volume 333.421
total Duration **7:48:50**

Alloc. SSR = 450 Mb. 244 shutters total.

Range = 18.1 mio km; NAC res. = 108 km/pxl; phase = 2.0 deg;
calc. mag = 13.2; Saturn angle = 17 deg; RA/Dec = 203/-6.1 deg.

3x N07 2sum color blocks w/ clr 2sum interspersed, including 2 fullres NAC clr
in each block.

51 NAC clr 2sum before each color block, 40 after final.

ab = ON

Data policing ~frame 223 (re-check)

Rather no --> heavy rain at DSS43 caused data losses.

(Check which images exactly were lost)

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
2	0:02:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
3	0:03:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
4	0:05:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
5	0:07:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
6	0:09:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
7	0:10:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
8	0:12:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
9	0:14:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
10	0:16:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
11	0:17:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
12	0:19:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
13	0:21:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
14	0:23:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
15	0:24:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
16	0:26:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
17	0:28:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
18	0:29:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
19	0:31:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
20	0:33:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
21	0:35:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
22	0:36:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
23	0:38:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
24	0:40:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
25	0:42:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
26	0:43:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
27	0:45:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
28	0:47:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
29	0:49:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
30	0:50:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
31	0:52:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
32	0:54:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
33	0:55:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
34	0:57:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
35	0:59:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
36	1:01:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
37	1:02:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	

38	1:04:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
39	1:06:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
40	1:08:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
41	1:09:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
42	1:11:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
43	1:13:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
44	1:15:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
45	1:16:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
46	1:18:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
47	1:20:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
48	1:21:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
49	1:23:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
50	1:25:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
51	1:27:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
52	1:28:54	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
53	1:31:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
54	1:33:00	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
55	1:41:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
56	1:43:24	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N
57	1:45:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
58	1:46:52	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N
59	1:48:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
60	1:50:20	N	NO	SC	220.	2x2	3	None	LL	CL1	IR3	6.70	1.84	.00	.00	264	N
61	1:54:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
62	1:56:28	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
63	2:00:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
64	2:02:36	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N
65	2:04:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
66	2:06:04	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	200	N
67	2:09:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
68	2:11:08	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
69	2:13:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
70	2:15:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
71	2:16:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
72	2:18:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
73	2:20:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
74	2:22:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
75	2:23:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
76	2:25:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
77	2:27:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
78	2:29:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
79	2:30:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
80	2:32:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
81	2:34:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
82	2:36:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
83	2:37:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
84	2:39:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
85	2:41:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
86	2:42:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
87	2:44:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
88	2:46:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
89	2:48:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
90	2:49:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
91	2:51:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
92	2:53:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
93	2:55:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
94	2:56:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
95	2:58:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
96	3:00:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
97	3:02:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
98	3:03:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
99	3:05:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
100	3:07:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
101	3:08:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

102	3:10:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
103	3:12:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
104	3:14:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
105	3:15:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
106	3:17:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
107	3:19:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
108	3:21:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
109	3:22:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
110	3:24:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
111	3:26:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
112	3:28:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
113	3:29:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
114	3:31:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
115	3:33:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
116	3:34:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
117	3:36:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
118	3:38:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
119	3:40:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
120	3:41:54	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
121	3:44:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
122	3:46:00	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
123	3:54:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
124	3:56:24	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N
125	3:58:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
126	3:59:52	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N
127	4:01:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
128	4:03:20	N	NO	SC	220.	2x2	3	None	LL	CL1	IR3	6.70	1.84	.00	.00	264	N
129	4:07:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
130	4:09:28	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
131	4:13:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
132	4:15:36	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N
133	4:17:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
134	4:19:04	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	200	N
135	4:22:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
136	4:24:08	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
137	4:26:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
138	4:28:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
139	4:29:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
140	4:31:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
141	4:33:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
142	4:35:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
143	4:36:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
144	4:38:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
145	4:40:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
146	4:42:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
147	4:43:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
148	4:45:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
149	4:47:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
150	4:49:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
151	4:50:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
152	4:52:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
153	4:54:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
154	4:55:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
155	4:57:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
156	4:59:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
157	5:01:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
158	5:02:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
159	5:04:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
160	5:06:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
161	5:08:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
162	5:09:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
163	5:11:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
164	5:13:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
165	5:15:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

166	5:16:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
167	5:18:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
168	5:20:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
169	5:21:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
170	5:23:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
171	5:25:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
172	5:27:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
173	5:28:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
174	5:30:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
175	5:32:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
176	5:34:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
177	5:35:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
178	5:37:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
179	5:39:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
180	5:41:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
181	5:42:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
182	5:44:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
183	5:46:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
184	5:47:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
185	5:49:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
186	5:51:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
187	5:53:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
188	5:54:54	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
189	5:57:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
190	5:59:00	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
191	6:07:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
192	6:09:24	N	NO	SC	82.0	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	104	N
193	6:11:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
194	6:12:52	N	NO	SC	82.0	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	104	N
195	6:14:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
196	6:16:20	N	NO	SC	220.	2x2	3	None	LL	CL1	IR3	6.70	1.84	.00	.00	264	N
197	6:20:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
198	6:22:28	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
199	6:26:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
200	6:28:36	N	NO	SC	82.0	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	104	N
201	6:30:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
202	6:32:04	N	NO	SC	180.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	200	N
203	6:35:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
204	6:37:08	N	NO	SC	82.0	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	142	N
205	6:39:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
206	6:41:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
207	6:42:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
208	6:44:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
209	6:46:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
210	6:48:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
211	6:49:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
212	6:51:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
213	6:53:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
214	6:55:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
215	6:56:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
216	6:58:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
217	7:00:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
218	7:02:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
219	7:03:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
220	7:05:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
221	7:07:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
222	7:08:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
<i>Data policing approx. here...</i>																	
223	7:10:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
224	7:12:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
225	7:14:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
226	7:15:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
227	7:17:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
228	7:19:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

229	7:21:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
230	7:22:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
231	7:24:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
232	7:26:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
233	7:28:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
234	7:29:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
235	7:31:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
236	7:33:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
237	7:34:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
238	7:36:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
239	7:38:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
240	7:40:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
241	7:41:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
242	7:43:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
243	7:45:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
244	7:47:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

Team member Tilmann Denk (FU Berlin), Thomas Roatsch
(DLR Berlin)
SFOF name **ISS_165OT_YMIROTA065_PRIME_5**
Trigger # 2666
Telemetry Rate S&ER3 (24)
number footprints 1
number param sets 50
number of images **100**
total Data Volume 116.525
total Duration **9:25:00**

Alloc. SSR = 200 Mb.

Range = 15.1 mio km; NAC res. = 91 km/pxl; phase = 65 deg;
calc. mag = 13.4; Earth angle = 64 deg; RA/Dec = 146/+22.3 deg.

100 NAC clr 2sum 82s g=2 shutters evenly spaced in pairs of shutters.

Anti-blooming = off for all shutters.

Object location:

065A: 266,299

065B: 258,294

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
2	0:03:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
3	0:11:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
4	0:14:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
5	0:22:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
6	0:26:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
7	0:34:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
8	0:37:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
9	0:45:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
10	0:48:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
11	0:57:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
12	1:00:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
13	1:08:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
14	1:11:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
15	1:19:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
16	1:23:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
17	1:31:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
18	1:34:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
19	1:42:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
20	1:45:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
21	1:54:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
22	1:57:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
23	2:05:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
24	2:08:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
25	2:16:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
26	2:20:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
27	2:28:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
28	2:31:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
29	2:39:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
30	2:42:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
31	2:51:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
32	2:54:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
33	3:02:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
34	3:05:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
35	3:13:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
36	3:17:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
37	3:25:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
38	3:28:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
39	3:36:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	

Team member Tilmann Denk (FU Berlin), Thomas Roatsch
(DLR Berlin)
SFOF name **ISS_165OT_YMIROTB065_PRIME_5**
Trigger # 2667
Telemetry Rate S&ER3 (24)
number footprints 1
number param sets 45
number of images **90**
total Data Volume 104.872
total Duration **8:14:39**

Alloc. SSR = 130 Mb.

Range = 16.1 mio km; NAC res. = 97 km/pxl; phase = 63 deg;
calc. mag = 13.6; Earth angle = 62 deg; RA/Dec = 148/+21.8 deg.

90 NAC clr 2sum 82s g=2 shutters evenly spaced in pairs of shutters.

Anti-blooming = off for all shutters.

Object location:

065A: 266,299

065B: 258,294

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
2	0:03:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
3	0:11:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
4	0:14:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
5	0:22:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
6	0:25:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
7	0:33:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
8	0:36:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
9	0:44:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
10	0:47:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
11	0:55:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
12	0:58:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
13	1:06:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
14	1:09:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
15	1:17:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
16	1:20:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
17	1:28:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
18	1:31:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
19	1:39:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
20	1:43:05	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
21	1:50:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
22	1:54:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
23	2:02:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
24	2:05:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
25	2:13:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
26	2:16:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
27	2:24:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
28	2:27:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
29	2:35:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
30	2:38:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
31	2:46:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
32	2:49:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
33	2:57:33	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
34	3:00:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
35	3:08:39	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
36	3:11:51	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
37	3:19:45	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
38	3:22:57	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	
39	3:30:51	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y	

40	3:34:03	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
41	3:41:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
42	3:45:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
43	3:53:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
44	3:56:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
45	4:04:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
46	4:07:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
47	4:15:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
48	4:18:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
49	4:26:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
50	4:29:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
51	4:37:25	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
52	4:40:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
53	4:48:31	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
54	4:51:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
55	4:59:37	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
56	5:02:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
57	5:10:43	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
58	5:13:55	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
59	5:21:49	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
60	5:25:01	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
61	5:32:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
62	5:36:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
63	5:44:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
64	5:47:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
65	5:55:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
66	5:58:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
67	6:06:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
68	6:09:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
69	6:17:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
70	6:20:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
71	6:28:23	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
72	6:31:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
73	6:39:29	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
74	6:42:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
75	6:50:35	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
76	6:53:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
77	7:01:41	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
78	7:04:53	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
79	7:12:47	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
80	7:15:59	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
81	7:23:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
82	7:27:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
83	7:34:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
84	7:38:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
85	7:46:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
86	7:49:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
87	7:57:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
88	8:00:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
89	8:08:15	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y
90	8:11:27	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	192	Y

Team member Tilmann Denk (FU Berlin), Thomas Roatsch
(DLR Berlin)
SFOF name **ISS_167OT_YMIROT077_PRIME_5**
Trigger # 2669
Telemetry Rate S&ER3 (24)
number footprints 1
number param sets 114
number of images **291**
total Data Volume 473.167
total Duration 10:31:12

Alloc. SSR = 500 Mb. Tracking duration = **10:31 h.**
Range = 15.1 mio km; NAC res. = 91 km/pxl; phase = 77 deg;
calc. mag = 13.7; Earth angle = 107 deg; RA/Dec = 136/+29.8 deg.
291 NAC shutters total.

First 7.3 hrs: 5 blocks a 42 shutters (1x **N05 color (2sum)** + 3x **NAC clr fullres**
+ 34x **NAC clr 2sum**) (each block 1:27:30 h long)

Final time: 5 **NAC clr fullres** plus 76 **NAC clr 2sum**.

Anti-blooming = off for all shutters.

20 NAC clr fullres images; **246 NAC clr 2sum** images; 25 **NAC 2sum color** images.

Object location: 253,297

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
2	0:01:44	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N	
3	0:04:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
4	0:06:22	N	NO	SC	100.	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	136	N	
5	0:08:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
6	0:10:22	N	NO	SC	100.	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	136	N	
7	0:12:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
8	0:14:22	N	NO	SC	460.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	520	N	
9	0:23:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
10	0:24:46	N	NO	SC	100.	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	136	N	
11	0:27:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
12	0:28:46	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
13	0:33:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
14	0:34:54	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N	
15	0:37:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
16	0:39:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
17	0:41:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
18	0:43:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
19	0:44:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
20	0:46:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
21	0:48:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
22	0:49:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
23	0:51:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
24	0:53:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
25	0:55:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
26	0:56:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
27	0:58:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
28	1:00:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
29	1:02:04	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N	
30	1:04:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N	
31	1:06:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
32	1:08:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
33	1:10:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
34	1:11:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
35	1:13:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
36	1:15:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	
37	1:17:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y	

38	1:18:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
39	1:20:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
40	1:22:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
41	1:24:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
42	1:25:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
43	1:27:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
44	1:29:14	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
45	1:32:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
46	1:33:52	N	NO	SC	100.	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	136	N
47	1:36:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
48	1:37:52	N	NO	SC	100.	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	136	N
49	1:40:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
50	1:41:52	N	NO	SC	460.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	520	N
51	1:50:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
52	1:52:16	N	NO	SC	100.	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	136	N
53	1:54:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
54	1:56:16	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
55	2:00:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
56	2:02:24	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
57	2:05:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
58	2:07:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
59	2:08:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
60	2:10:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
61	2:12:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
62	2:13:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
63	2:15:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
64	2:17:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
65	2:19:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
66	2:20:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
67	2:22:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
68	2:24:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
69	2:26:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
70	2:27:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
71	2:29:34	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
72	2:32:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
73	2:34:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
74	2:35:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
75	2:37:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
76	2:39:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
77	2:41:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
78	2:42:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
79	2:44:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
80	2:46:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
81	2:48:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
82	2:49:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
83	2:51:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
84	2:53:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
85	2:55:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
86	2:56:44	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
87	2:59:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
88	3:01:22	N	NO	SC	100.	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	136	N
89	3:03:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
90	3:05:22	N	NO	SC	100.	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	136	N
91	3:07:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
92	3:09:22	N	NO	SC	460.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	520	N
93	3:18:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
94	3:19:46	N	NO	SC	100.	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	136	N
95	3:22:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
96	3:23:46	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
97	3:28:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
98	3:29:54	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
99	3:32:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
100	3:34:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
101	3:36:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

102	3:38:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
103	3:39:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
104	3:41:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
105	3:43:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
106	3:44:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
107	3:46:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
108	3:48:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
109	3:50:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
110	3:51:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
111	3:53:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
112	3:55:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
113	3:57:04	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
114	3:59:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
115	4:01:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
116	4:03:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
117	4:05:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
118	4:06:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
119	4:08:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
120	4:10:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
121	4:12:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
122	4:13:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
123	4:15:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
124	4:17:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
125	4:19:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
126	4:20:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
127	4:22:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
128	4:24:14	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
129	4:27:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
130	4:28:52	N	NO	SC	100.	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	136	N
131	4:31:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
132	4:32:52	N	NO	SC	100.	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	136	N
133	4:35:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
134	4:36:52	N	NO	SC	460.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	520	N
135	4:45:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
136	4:47:16	N	NO	SC	100.	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	136	N
137	4:49:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
138	4:51:16	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
139	4:55:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
140	4:57:24	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
141	5:00:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
142	5:02:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
143	5:03:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
144	5:05:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
145	5:07:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
146	5:08:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
147	5:10:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
148	5:12:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
149	5:14:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
150	5:15:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
151	5:17:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
152	5:19:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
153	5:21:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
154	5:22:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
155	5:24:34	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
156	5:27:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
157	5:29:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
158	5:30:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
159	5:32:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
160	5:34:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
161	5:36:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
162	5:37:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
163	5:39:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
164	5:41:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
165	5:43:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y

166	5:44:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
167	5:46:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
168	5:48:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
169	5:50:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
170	5:51:44	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
171	5:54:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
172	5:56:22	N	NO	SC	100.	2x2	3	None	LL	CL1	GRN	6.50	1.78	.00	.00	136	N
173	5:58:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
174	6:00:22	N	NO	SC	100.	2x2	3	None	LL	CL1	IR1	6.50	1.78	.00	.00	136	N
175	6:02:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
176	6:04:22	N	NO	SC	460.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	520	N
177	6:13:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
178	6:14:46	N	NO	SC	100.	2x2	3	None	LL	RED	CL2	6.50	1.78	.00	.00	136	N
179	6:17:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
180	6:18:46	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
181	6:23:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
182	6:24:54	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
183	6:27:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
184	6:29:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
185	6:31:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
186	6:33:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
187	6:34:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
188	6:36:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
189	6:38:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
190	6:39:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
191	6:41:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
192	6:43:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
193	6:45:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
194	6:46:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
195	6:48:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
196	6:50:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
197	6:52:04	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
198	6:54:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
199	6:56:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
200	6:58:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
201	7:00:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
202	7:01:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
203	7:03:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
204	7:05:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
205	7:07:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
206	7:08:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
207	7:10:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
208	7:12:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
209	7:14:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
210	7:15:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	Y
211	7:17:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
212	7:19:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
213	7:22:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
214	7:24:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
215	7:26:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
216	7:29:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
217	7:31:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
218	7:34:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
219	7:36:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
220	7:38:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
221	7:41:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
222	7:43:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
223	7:45:54	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
224	7:48:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
225	7:51:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
226	7:53:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
227	7:55:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
228	7:58:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
229	8:00:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y

230	8:03:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
231	8:05:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
232	8:07:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
233	8:10:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
234	8:12:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
235	8:14:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
236	8:17:12	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
237	8:20:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
238	8:22:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
239	8:24:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
240	8:27:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
241	8:29:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
242	8:31:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
243	8:34:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
244	8:36:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
245	8:39:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
246	8:41:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
247	8:43:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
248	8:46:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
249	8:48:30	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
250	8:51:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
251	8:53:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
252	8:56:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
253	8:58:30	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
254	9:00:52	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
255	9:03:14	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
256	9:05:36	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
257	9:07:58	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
258	9:10:20	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
259	9:12:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
260	9:15:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
261	9:17:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
262	9:19:48	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
263	9:22:42	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
264	9:25:04	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
265	9:27:26	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
266	9:29:48	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
267	9:32:10	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
268	9:34:32	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
269	9:36:54	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
270	9:39:16	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
271	9:41:38	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
272	9:44:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
273	9:46:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
274	9:48:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
275	9:51:06	N	NO	SC	100.	1x1	3	None	LL	CL1	CL2	6.50	7.06	.00	.00	174	N
276	9:54:00	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
277	9:56:22	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
278	9:58:44	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
279	10:01:06	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
280	10:03:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
281	10:05:50	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
282	10:08:12	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
283	10:10:34	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
284	10:12:56	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
285	10:15:18	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
286	10:17:40	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
287	10:20:02	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
288	10:22:24	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
289	10:24:46	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	142	Y
290	10:27:08	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N
291	10:29:28	N	NO	SC	82.0	2x2	2	None	LL	CL1	CL2	4.20	1.16	.00	.00	104	N

Team member Tilmann Denk (FU Berlin), Thomas Roatsch (DLR Berlin)
 SFOF name **ISS_168OT_YMIROT095_PRIME_1**
 Trigger # 2671
 Telemetry Rate S&ER3 (24)
 number footprints 1
 number param sets 164
 number of images **508**
 total Data Volume 880.037
 total Duration 36:51:02

Alloc. SSR = 1 Gb. Tracking duration = 36:51 h.
 484 NAC shutters + 24 darks total.

Range = 15.3 mio km; NAC res. = 92 km/pxl; phase = 95 deg;
 calc. mag = 14.2; Earth angle = 89 deg; RA/Dec = 125/+35.0 deg.

+ 438 NAC clr 2sum 180s AB=off more or less evenly spread out.
 [after D/L, 356 AB=off 2sum images were eventually useful for lightcurve]
 + 3 NAC 2sum clr 180s shutters with AB=on near request start.
 [after D/L, all three AB=on 2sum images were available]
 + Four interruptions by NAC **fullres**. clr shutter triples (180s/460s/180s; g=3) and
 6 **dark frames** (220s; 2sum; shutter inhibit) per "interruption"
 starting 03:36, 07:48, 11:59, and 16:10 hrs after tracking begin
 (total of 12 fullres and 24 dark frames alternating with regular NAC clr 2sum shutters;
 each block's duration is ~2.5 hrs).
 [after D/L, 18 2sum dark frames were eventually available]
 + ~150 uninterrupted NAC clr 2sum shutters from 18:37 to 30:45 hrs (--> ~12 hrs).
 + 31 NAC **fullres** clr (180s/460s; g=3) alternating with NAC 2sum clr shutters
 starting 30:45:20 hrs after tracking begin (lasts 5 hrs).

Object location: 253,297

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	00:00:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
2	00:03:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
3	00:06:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
4	00:10:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
5	00:13:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
6	00:16:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
7	00:20:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
8	00:23:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
9	00:26:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
10	00:30:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
11	00:33:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y	
12	00:36:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
13	00:41:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
14	00:46:16	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
15	00:51:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
16	00:55:52	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
17	01:00:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
18	01:05:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
19	01:10:16	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
20	01:15:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
21	01:19:52	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
22	01:24:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y	
23	01:29:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
24	01:32:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	ab=Y
25	01:36:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
26	01:39:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	ab=Y
27	01:42:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
28	01:46:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	ab=Y

29	01:49:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
30	01:52:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
31	01:57:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
32	02:02:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
33	02:07:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
34	02:12:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
35	02:16:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
36	02:21:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
37	02:26:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
38	02:31:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
39	02:36:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
40	02:40:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
41	02:45:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
42	02:50:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
43	02:55:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
44	03:00:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
45	03:04:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
46	03:09:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
47	03:14:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
48	03:19:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
49	03:24:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
50	03:28:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
51	03:33:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
52	03:36:56	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
53	03:41:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
54	03:44:40	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
55	03:49:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
56	03:52:24	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
57	03:56:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
58	04:00:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
59	04:03:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
60	04:06:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
61	04:10:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
62	04:13:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
63	04:16:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
64	04:20:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
65	04:23:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
66	04:26:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
67	04:30:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
68	04:33:28	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
69	04:37:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
70	04:40:46	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
71	04:44:06	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
72	04:53:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
73	04:56:44	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
74	05:00:04	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
75	05:04:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
76	05:07:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
77	05:10:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
78	05:14:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
79	05:17:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
80	05:20:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
81	05:24:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
82	05:27:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
83	05:30:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
84	05:34:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
85	05:37:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
86	05:40:42	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
87	05:45:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
88	05:48:26	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
89	05:52:50	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
90	05:56:10	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
91	06:00:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
92	06:03:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y

93	06:08:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
94	06:13:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
95	06:18:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
96	06:23:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
97	06:27:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
98	06:32:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
99	06:37:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
100	06:42:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
101	06:47:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
102	06:51:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
103	06:56:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
104	07:01:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
105	07:06:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
106	07:11:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
107	07:15:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
108	07:20:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
109	07:25:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
110	07:30:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
111	07:35:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
112	07:39:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
113	07:44:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
114	07:48:02	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
115	07:52:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
116	07:55:46	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
117	08:00:10	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
118	08:03:30	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
119	08:07:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
120	08:11:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
121	08:14:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
122	08:17:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
123	08:21:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
124	08:24:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
125	08:27:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
126	08:31:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
127	08:34:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
128	08:37:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
129	08:41:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
130	08:44:34	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
131	08:48:32	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
132	08:51:52	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
133	08:55:12	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
134	09:04:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
135	09:07:50	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
136	09:11:10	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
137	09:15:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
138	09:18:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
139	09:21:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
140	09:25:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
141	09:28:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
142	09:31:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
143	09:35:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
144	09:38:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
145	09:41:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
146	09:45:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
147	09:48:28	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
148	09:51:48	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
149	09:56:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
150	09:59:32	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
151	10:03:56	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
152	10:07:16	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
153	10:11:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
154	10:15:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
155	10:19:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
156	10:24:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y

157	10:29:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
158	10:34:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
159	10:39:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
160	10:43:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
161	10:48:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
162	10:53:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
163	10:58:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
164	11:03:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
165	11:07:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
166	11:12:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
167	11:17:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
168	11:22:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
169	11:27:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
170	11:31:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
171	11:36:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
172	11:41:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
173	11:46:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
174	11:51:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
175	11:55:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
176	11:59:08	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
177	12:03:32	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
178	12:06:52	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
179	12:11:16	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
180	12:14:36	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
181	12:19:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
182	12:22:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
183	12:25:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
184	12:29:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
185	12:32:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
186	12:35:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
187	12:39:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
188	12:42:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
189	12:45:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
190	12:49:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
191	12:52:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
192	12:55:40	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
193	12:59:38	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
194	13:02:58	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
195	13:06:18	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
196	13:15:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
197	13:18:56	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
198	13:22:16	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
199	13:26:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
200	13:29:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
201	13:32:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
202	13:36:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
203	13:39:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
204	13:42:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
205	13:46:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
206	13:49:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
207	13:52:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
208	13:56:14	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
209	13:59:34	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
210	14:02:54	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
211	14:07:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
212	14:10:38	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
213	14:15:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
214	14:18:22	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
215	14:22:46	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
216	14:26:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
217	14:30:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
218	14:35:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
219	14:40:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
220	14:45:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y

221	14:50:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
222	14:54:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
223	14:59:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
224	15:04:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
225	15:09:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
226	15:14:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
227	15:18:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
228	15:23:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
229	15:28:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
230	15:33:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
231	15:38:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
232	15:42:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
233	15:47:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
234	15:52:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
235	15:57:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
236	16:02:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
237	16:06:54	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
238	16:10:14	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
239	16:14:38	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
240	16:17:58	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
241	16:22:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
242	16:25:42	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
243	16:30:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
244	16:33:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
245	16:36:46	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
246	16:40:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
247	16:43:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
248	16:46:46	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
249	16:50:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
250	16:53:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
251	16:56:46	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
252	17:00:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
253	17:03:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
254	17:06:46	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
255	17:10:44	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
256	17:14:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
257	17:17:24	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
258	17:26:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
259	17:30:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
260	17:33:22	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
261	17:37:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
262	17:40:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
263	17:44:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
264	17:47:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
265	17:50:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
266	17:54:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
267	17:57:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
268	18:00:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
269	18:04:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
270	18:07:20	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
271	18:10:40	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
272	18:14:00	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
273	18:18:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
274	18:21:44	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
275	18:26:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
276	18:29:28	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	264	N dark
277	18:33:52	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
278	18:37:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
279	18:42:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
280	18:46:48	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
281	18:51:36	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
282	18:56:24	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
283	19:01:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y
284	19:06:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	Y

477	34:41:12	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
478	34:44:32	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
479	34:48:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
480	34:51:50	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
481	35:01:08	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
482	35:04:28	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
483	35:08:26	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
484	35:11:46	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
485	35:21:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
486	35:24:24	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
487	35:28:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
488	35:31:42	N	NO	SC	460.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	558	N
489	35:41:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
490	35:44:20	N	NO	SC	180.	1x1	3	None	LL	CL1	CL2	6.70	7.28	.00	.00	238	N
491	35:48:18	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	288	N
492	35:53:06	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	238	N
493	35:57:04	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	238	N
494	36:01:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
495	36:04:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
496	36:07:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
497	36:11:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
498	36:14:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
499	36:17:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
500	36:21:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
501	36:24:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
502	36:27:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
503	36:31:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
504	36:34:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
505	36:37:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
506	36:41:02	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
507	36:44:22	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y
508	36:47:42	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	Y

Team member Tilmann Denk (FU Berlin), Thomas Roatsch (DLR Berlin)
 SFOF name **ISS_1690T_YMIPHA102_PRIME_1**
 Trigger # 2673
 Telemetry Rate S&ER3 (24)
 number footprints 1
 number param sets 1
 number of images **93**
 total Data Volume 113.326
 total Duration 7:14:59

Alloc. SSR = 150 Mb. Tracking duration = 07:15 h.

93 NAC shutters total.

Range = 15.5 mio km; NAC res. = 93 km/pxl; phase = 102 deg;

calc. mag = 14.5; Earth angle = 84 deg; RA/Dec = 108/+36.5 deg.

93x NAC clr g=2 2sum every 4:40 min (ROI=11); antiblooming=off.

Object location: 242,296

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
2	0:05:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
3	0:10:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
4	0:14:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
5	0:19:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
6	0:24:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
7	0:28:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
8	0:33:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
9	0:38:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
10	0:42:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
11	0:47:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
12	0:52:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
13	0:56:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
14	1:01:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
15	1:06:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
16	1:10:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
17	1:15:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
18	1:20:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
19	1:24:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
20	1:29:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
21	1:34:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
22	1:38:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
23	1:43:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
24	1:48:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
25	1:52:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
26	1:57:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
27	2:02:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
28	2:06:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
29	2:11:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
30	2:16:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
31	2:20:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
32	2:25:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
33	2:30:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
34	2:34:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
35	2:39:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
36	2:44:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
37	2:48:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
38	2:53:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
39	2:58:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
40	3:02:59	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
41	3:07:39	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	
42	3:12:19	N	NO	SC	220.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	280	Y	

Team member Tilmann Denk (FU Berlin), Thomas Roatsch (DLR Berlin)
 SFOF name ISS_218OT_YMICOL029_PRIME_1
 Trigger # 2794
 Telemetry Rate S&ER3 (24)
 number footprints 1
 number param sets 139
 number of images 139
 total Data Volume 241.199
 total Duration 12:49:59

Alloc. SSR = 242 Mb. **121 Ymir shutters, 18 darks.**
 Range = 15.7 mio km; NAC res. = 94 km/pxl; phase = 29 deg; calc. mag = 14.1;
 Saturn angle = 108 deg; Earth angle = 155 deg; RA/Dec = 210/-15.7 deg.
 Ymir: **20x clr + 5-color (g=3) Uv3, Grn, Irl, Bl1, Ir2.**
 Darks: **3 blocks (1st, 6th, 11th block = shutters #1-6, #31-36, #61-66).**
 Block duration: 29.6 min. Wait time between blocks: 234s.
 Time between two identical filters: 33.5 min.
 Last shutter is another Ymir clr.

Data policing => 5 losses => **116 Ymir images (19 complete blocks), 18 darks** total

Object location: 250,303

IM#	Offset	C	Bot	Cat	Exp	Sum	G	Cnv	Cm	FW1	FW2	BPP	SSR	PFW	PDN	FT	I	L/C
Footprint: 1 (Loop_count=, Loop_pos=, Loop_wait=)																		
1	0:00:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
2	0:03:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
3	0:12:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
4	0:16:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
5	0:20:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
6	0:25:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
7	0:33:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
8	0:36:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
9	0:45:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
10	0:49:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
11	0:54:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
12	0:58:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
13	1:07:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
14	1:10:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
15	1:19:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
16	1:23:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
17	1:27:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
18	1:32:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
19	1:40:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
20	1:43:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
21	1:52:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
22	1:56:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
23	2:01:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
24	2:05:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
25	2:14:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
26	2:17:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
27	2:26:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
28	2:30:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
29	2:34:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
30	2:39:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
31	2:47:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
32	2:50:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
33	2:59:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
34	3:03:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
35	3:08:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	
36	3:12:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N	
37	3:21:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N	
38	3:24:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N	
39	3:33:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N	
40	3:37:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N	
41	3:41:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N	

42	3:46:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
43	3:54:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
44	3:57:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
45	4:06:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
46	4:10:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
47	4:15:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
48	4:19:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
49	4:28:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
50	4:31:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
51	4:40:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
52	4:44:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
53	4:48:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
54	4:53:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
55	5:01:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
56	5:04:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
57	5:13:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
58	5:17:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
59	5:22:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
60	5:26:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
61	5:35:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
62	5:38:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
63	5:47:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
64	5:51:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
65	5:55:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
66	6:00:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
67	6:08:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
68	6:11:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
69	6:20:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
70	6:24:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
71	6:29:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
72	6:33:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
73	6:42:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
74	6:45:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
75	6:54:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
76	6:58:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
77	7:02:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
78	7:07:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
79	7:15:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
80	7:18:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
81	7:27:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
82	7:31:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
83	7:36:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
84	7:40:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
85	7:49:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
86	7:52:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
87	8:01:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
88	8:05:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
89	8:09:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
90	8:14:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
91	8:22:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
92	8:25:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
93	8:34:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
94	8:38:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
95	8:43:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
96	8:47:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
97	8:56:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
98	8:59:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
99	9:08:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
100	9:12:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
101	9:16:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
102	9:21:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
103	9:29:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
104	9:32:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
105	9:41:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
106	9:45:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
107	9:50:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
108	9:54:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
109	10:03:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
110	10:06:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N

111	10:15:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
112	10:19:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
113	10:23:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
114	10:28:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
115	10:36:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
116	10:39:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
117	10:48:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
118	10:52:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
119	10:57:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
120	11:01:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
121	11:10:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
122	11:13:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
123	11:22:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
124	11:26:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
125	11:30:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
126	11:35:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
127	11:43:30	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
128	11:46:50	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
129	11:55:30	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
130	11:59:54	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
131	12:04:18	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
132	12:08:42	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
133	12:17:00	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N
134	12:20:20	N	NO	SC	460.	2x2	3	None	LL	CL1	UV3	6.70	1.84	.00	.00	520	N
135	12:29:00	N	NO	SC	220.	2x2	3	None	LL	CL1	GRN	6.70	1.84	.00	.00	264	N
136	12:33:24	N	NO	SC	220.	2x2	3	None	LL	CL1	IR1	6.70	1.84	.00	.00	264	N
137	12:37:48	N	NO	SC	220.	2x2	3	None	LL	BL1	CL2	6.70	1.84	.00	.00	264	N
138	12:42:12	N	NO	SC	220.	2x2	3	None	LL	IR2	CL2	6.70	1.84	.00	.00	264	N
139	12:46:39	N	NO	SC	180.	2x2	2	None	LL	CL1	CL2	4.40	1.21	.00	.00	200	N

datapol,noYmi