



1373 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System science

Cycle: 1, Proposal Category: ERS

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Prof. Imke de Pater (PI)	University of California - Berkeley
Thierry Fouchet (CoI) (ESA Member) (CoPI) (Contact)	Observatoire de Paris
Dr. Dominique Bockelee-Morvan (CoI) (ESA Member)	Observatoire de Paris
Al Conrad (CoI)	Large Binocular Telescope Observatory
Prof. Leigh Fletcher (CoI) (ESA Member)	University of Leicester
Mr. Patrick M. Fry (CoI)	University of Wisconsin - Madison
Prof. Alistair Glasse (CoI) (ESA Member)	UK Astronomy Technology Centre
Dr. Ricardo Hueso (CoI) (ESA Member)	Universidad del Pais Vasco
Emmanuel Lellouch (CoI) (ESA Member)	Observatoire de Paris - Section de Meudon
Dr. Henrik Melin (CoI) (ESA Member)	University of Leicester
Dr. Glenn S. Orton (CoI)	Jet Propulsion Laboratory
Dr. Mark R. Showalter (CoI)	SETI Institute
Dr. Anand Sivaramakrishnan (CoI)	Space Telescope Science Institute
Michael H. Wong (CoI) (Contact)	University of California - Berkeley
Prof. Katherine de Kleer (CoI)	California Institute of Technology

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Jupiter - South Pole				
	2	Jupiter South Pole 1 - MIRI MRS	MIRI Medium Resolution Spectroscopy	(23) JUPITER-FIXED-68S

JWST Proposal 1373 (Created: Monday, August 14, 2023 at 3:00:35 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	3	Jupiter South Pole - NIRSpec IFU High Res G 395H	NIRSpec IFU Spectroscopy	(32) JUPITER-FIXED-66S
	4	Jupiter South Pole 2 - MIRI MRS	MIRI Medium Resolution Spectroscopy	(23) JUPITER-FIXED-68S
	25	Jupiter South Pole - NIRSpec IFU High Res G 235H	NIRSpec IFU Spectroscopy	(33) JUPITER-FIXED-62S
	26	Jupiter South Pole 3 - MIRI MRS	MIRI Medium Resolution Spectroscopy	(23) JUPITER-FIXED-68S
Jupiter - GRS				
	5	Jupiter GRS - NIRSpec IFU High Res	NIRSpec IFU Spectroscopy	(4) JUPITER-GRS
	6	Jupiter 1 - NIRCAM S UB640	NIRCam Imaging	(6) JUPITER
	7	Jupiter 2 - NIRCAM S UB640	NIRCam Imaging	(6) JUPITER
	8	Jupiter 1 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
	9	Jupiter 2 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
Ring System - NIRCAM				
	10	Ring System Leading 1 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
	11	Main Ring Ansa - NIRCAM SUB400P	NIRCam Imaging	(30) JUPITER-MAINRING-WEST
	33	Main Ring Ansa - NIRCAM SUB400P	NIRCam Imaging	(35) JUPITER-MAINRING-EAST
	12	Ring System Leading 2 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
	13	Ring System Trailing 1 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
	14	Ring System Trailing 2 - NIRCAM Full	NIRCam Imaging	(6) JUPITER
Io - MIRI, NIRSpec				
	15	Io Leading Hemisphere - MIRI MRS	MIRI Medium Resolution Spectroscopy	(7) IO

JWST Proposal 1373 (Created: Monday, August 14, 2023 at 3:00:35 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	31	Io Leading Hemisphere - MIRI MRS	MIRI Medium Resolution Spectroscopy	(7) IO
	16	Io Eclipse - NIRSpec IFU Short	NIRSpec IFU Spectroscopy	(7) IO
	34	Io Eclipse - NIRSpec IFU Short	NIRSpec IFU Spectroscopy	(7) IO
	36	Io Eclipse - NIRSpec IFU Short	NIRSpec IFU Spectroscopy	(7) IO
	24	Io Eclipse - NIRSpec IFU Long	NIRSpec IFU Spectroscopy	(7) IO
	35	Io Eclipse - NIRSpec IFU Long	NIRSpec IFU Spectroscopy	(7) IO
Io - NIRISS AMI				
	17	Io disk - NIRISS SUB80	NIRISS Aperture Masking Interferometry	(7) IO
Ganymede - MIRI, NIRSpec				
	18	Ganymede Leading Hemisphere - MIRI MRS	MIRI Medium Resolution Spectroscopy	(1) GANYMEDE
	19	Ganymede Leading Hemisphere - NIRSpec IFU High Res	NIRSpec IFU Spectroscopy	(1) GANYMEDE
	27	Ganymede Trailing Hemisphere - MIRI MRS	MIRI Medium Resolution Spectroscopy	(1) GANYMEDE
	28	Ganymede Trailing Hemisphere - NIRSpec IFU High Res	NIRSpec IFU Spectroscopy	(1) GANYMEDE
	20	Ganymede Eclipse - NIRSpec IFU Low Res	NIRSpec IFU Spectroscopy	(1) GANYMEDE
Calibrations				
	1	MIRI Background - Jupiter 5x16	MIRI Medium Resolution Spectroscopy	(3) BACKGROUND+90N
	22	MIRI Background - Ganymede Leading 5x44	MIRI Medium Resolution Spectroscopy	(31) BG-GANYMEDE+20N
	32	MIRI Background - Io Leading 5x16	MIRI Medium Resolution Spectroscopy	(36) BG-IO+SXS
	29	MIRI Background - Ganymede Trailing 5x44	MIRI Medium Resolution Spectroscopy	(31) BG-GANYMEDE+20N

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	30	MIRI Background - Ganymede Trailing 5x44	MIRI Medium Resolution Spectroscopy	(31) BG-GANYMEDE+20N
	23	NIRISS PSF - AMI	NIRISS Aperture Masking Interferometry	(29) PSFCAL.2022A-HD2236-K6

ABSTRACT

We have brought together a large and diverse community in the US and Europe to observe the jovian system, with the following scientific goals:

- characterize Jupiter’s cloud layers, winds, composition, auroral activity, and temperature structure;
- produce maps of the atmosphere and surface of volcanically-active Io and icy satellite Ganymede to constrain their thermal and atmospheric structure, and search for plumes;
- characterize the ring structure, and its sources, sinks and evolution.

Our program will thus demonstrate the capabilities of JWST’s instruments on one of the largest and brightest sources in the Solar System and on very faint targets next to it. We will also observe weak emission/absorption bands on strong continua, and with NIRIS/AMI we will maximize the Strehl ratio on unresolved features, such as Io’s volcanoes.

We will deliver a number of science enabling products that will facilitate community science, including, e.g.: i) characterizing Jupiter’s scattered light in the context of scientific observations, ii) resolve point sources with AMI in a crowded field (Io’s volcanoes), and compare this to classical observations, iii) develop tools to mosaic/visualize spectral datacubes using MIRI and NIRSpec on Jupiter.

Finally, our program will also set a first temporal benchmark to study time variations in the jovian system and any interconnectivity (e.g., through its magnetic field) during JWST’s lifetime.

OBSERVING DESCRIPTION

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SUMMARY OF OBSERVATIONS

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Jupiter - MIRI

(2-4) Jupiter South Pole - MIRI MRS 4.9–28.5 micron

Timing/constraints: Avoid moons or their shadows blocking the target. Maintain fixed pointing at 75 deg south as the planet rotates, to build up longitude coverage (three separate MIRI exposures). Do sky background scan up to 5 hours before science observation. Sequence with NIRSpec to observe south polar region within a single Jupiter rotation. Central Meridian Longitude (CML) constraint: First MIRI observation starts with CML in (-80, -12), so that final NIRSpec observation will finish with CML in (+63, +129).

Jupiter - NIRSpec

(5) Jupiter GRS - NIRSpec IFU High Res 1.7-5.3 micron (G395H, G235H)

Timing/constraints: Mosaic (2x3) is centered on planetographic target JUPITER-GRS, which tracks the estimated position of the Great Red Spot. Target must remain inside 6" of Jupiter's limb during the observation, so within 41-46 deg of the CML. We will work with schedulers at STScI to make sure observation will occur close in time to GTO observations of the GRS with MIRI.

(25) Jupiter South Pole - NIRSpec IFU High Res 2.9-5.3 micron (G395H)

(26) Jupiter South Pole - NIRSpec IFU High Res 1.7-3.2 micron (G235H)

Timing/constraints: Observations sequence immediately after MIRI South Pole spectra, giving estimated CMLs (+22, +103) for the long wavelengths (including start time uncertainty) and (+63, +129) for the short wavelengths. Mosaic size is 2x3 for long wavelengths, 1x3 for short wavelengths. Mosaics will track a point (at +75 W) on the southern auroral oval as it rotates. Avoid moons or their shadows blocking the target.

Jupiter - NIRCAM

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(6) Jupiter 1 - NIRCAM SUB640 (F164N / F360M)

(7) Jupiter 2 - NIRCAM SUB640 (F164N / F405N)

(8) Jupiter 1 - NIRCAM Full Module B (F212N / F335M)

(9) Jupiter 2 - NIRCAM Full Module B (F212N / F335M)

Timing/constraints: Jupiter 2 (SUB640 + FULL) follows Jupiter within three Jupiter rotations for to observe temporal evolution of storm systems. For Obs. 6, use a "PHASE" special timing requirement to ensure the GRS is on the face of the planet, but track planet center with JWST. Calculation of the PHASE constraint is described in Obs. 6 comments. Obs. 7-9 have no specific constraint to position the GRS, relying only on the SEQUENCE and AFTER constraints. SUB640 observations use a 4-point INTRAMODULEBOX dither to cover detector gap. FULL observations offset from B_s aperture to B₃ aperture avoid detector edge gaps. B₁, B₂, or B₄ apertures are just as good, so we could switch if observatory verification finds one of these apertures to be better for imaging. Restrict V₃ to 241-250 deg to ensure mosaic axis is aligned with planet spin axis for the 2022A epoch (JWST-leading). Avoid moons or their shadows blocking the disk.

Rings - NIRCAM (F212N / F150W2 / F250M / F322W2)

(10) Ring System Leading 1 - NIRCAM Full Module B

(11) Main Ring Ansa - NIRCAM SUB400P

(12) Ring System Leading 2 - NIRCAM Full Module B

(13) Ring System Trailing 1 - NIRCAM Full Module B

(14) Ring System Trailing 2 - NIRCAM Full Module B

Timing/constraints: Ring System Portraits are in pairs, separated by 1-3 hrs or 5-7 hrs, to avoid orbital longitude aliasing by the moons Adrestea and Metis (whose periods are 8 hrs). Pairs also have 10 +/- 1 deg roll angle separations to enable scattered light background subtraction. Separation between epochs (Leading and Trailing JWST around the Sun) is ideal for detecting spiral density waves. Major moons are required to be outside the ring area. Solar System Target Windows are set to exclude the smaller moons from the SUB400P FOV area, using orbital longitude constraints.

Io - MIRI, NIRSpec

(15) Io Leading Hemisphere - MIRI MRS 4.9–28.5 micron

(16) Io in Eclipse - NIRSpec IFU High Res 0.97–1.89 micron (G140H/F100LP)

(24) Io in Eclipse - NIRSpec IFU High Res 1.66–5.3 micron (G235H/F170LP, G395H/F290LP)

Timing/constraints: For MIRI, use Central Meridian Longitude constraint to ensure leading hemisphere is observed, and ensure separation from planet is large. We use a 2-point dither to nod the target on-detector, rather than acquiring a separate background frame. Group these observations with other Io and Jupiter observations to save on major slew overheads. NIRSpec eclipse observations must happen while Io is in full umbral eclipse; this happens only 24 times per epoch, so we did not try to bundle the eclipse observation with other jovian system observations. Due to the limited duration of Io eclipse events, break the NIRSpec spectrum into separate short-wavelength and long-wavelength observations, to be conducted during separate eclipses.

Io - NIRISS AMI

(17) Io near elongation from Jupiter - NIRISS NRM/F430M (AMI)

Timing/constraints: Use Central Meridian Longitude constraint to ensure leading hemisphere is observed by NIRISS, and ensure separation from planet is large. Do NIRISS PSF calibrator observation within 5 hours of science observation. Group these observations with other Io and Jupiter observations to save on major slew overheads. PSF calibrator star is chosen to be close to target in the 2022A timeframe; use alternate calibration star if timing changes again due to additional launch delay(s).

Ganymede - MIRI, NIRSpec

(18) Ganymede Leading Hemisphere - MIRI MRS 4.9–28.5 micron

(19) Ganymede Leading Hemisphere - NIRSpec IFU High Res 2.9–5.3 micron (F395H/F290LP)

(20) Ganymede in Eclipse - NIRSpec IFU Low Res 0.6–5.3 micron (PRISM)

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Timing/constraints: Use Central Meridian Longitude constraint to ensure leading hemisphere is observed by NIRSpec and MIRI and ensure separation from planet is large. Do MIRI background observation within 5 hours of science observation. Group non-eclipse observations with other Jupiter and rings observations to save on major slew overheads. NIRSpec eclipse observation must happen while Ganymede is in full umbral eclipse; this happens only 7 times per epoch.

Calibrations

(1,22) MIRI Backgrounds

Test of MIRI sky background standard procedure, using parameters for bright objects. Backgrounds used for Jupiter and Ganymede observations. Same background target used (90 arcsec N of Jupiter). Jupiter observations use 4 group/int just like GTO program; so GTO and ERS can be done around the same time, one program may eliminate a background.

(23) NIRISS PSF

Not known until post-launch whether PSF stability requires these extra calibration PSF observations. But we are prepared. PSF star is far from Io so another 1800-sec slew overhead is charged.

Proposal 1373 - Targets - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System science

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(29)	PSFCAL.2022A-HD2236-K6	RA: 00 26 12.0759 (6.5503163d) Dec: +01 09 51.32 (1.16426d) Equinox: J2000	Proper Motion RA: -14.779 mas/yr Proper Motion Dec: -8.580 mas/yr Parallax: 0.0033333" Epoch of Position: 2015.5	
	<i>Comments: This object was found using the SearchCal tool (http://www.jmmc.fr/searchcal_page.htm) with PM/parallax values confirmed in Simbad (http://simbad.u-strasbg.fr/simbad)</i>				
	<i>NIRISS AMI PSF calibrator 2022A</i>				
	<i>K0III C / K=6.302</i>				
	<i>Category=Calibration</i>				
	<i>Description=[Point spread function]</i>				

Proposal 1373 - Targets - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System science

#	Name	Level 1	Level 2	Level 3
(1)	GANYMEDE	STD=JUPITER	STD=GANYMEDE	
<i>Comments: Extended=YES</i>				
(3)	BACKGROUND+90N	STD=JUPITER	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH	
<i>Comments: MIRI MRS background should be 90 deg N of Jupiter for JWST-leading orientation (e.g., Jupiter in 2022-Jun-23 to 2022-Aug-1 range). Switch background to 90 deg S of Jupiter for JWST-trailing orientation (this keeps Jupiter off of the MIRI imager apertures). Extended=YES</i>				
(4)	JUPITER-GRS	STD=JUPITER	TYPE=PGRAPHIC, LONG=265.6, LAT=-20.7, R_LONG=0.319, R_LAT=0, EPOCH=30-APR-2022:12:00:00, EpochTimeScale=UTC	
<i>Comments: updated 2022-05-30 by Ricardo Hueso including recent amateur data updated 2021-09-17 by Mike Wong using data from HST/OPAL, Jupos, and Chris Go available in Sept. 2021 updated 2020-02-27 by Pat Fry using 5 years of HST OPAL data updated 2019-06-03 using JuposDriftCharts-2019-04-26 Extended=YES</i>				
(6)	JUPITER	STD=JUPITER		
<i>Comments: Extended=YES</i>				
(7)	IO	STD=JUPITER	STD=IO	
<i>Comments: Extended=YES</i>				
(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0	
<i>Comments: FIXED (non-rotating) southern hemisphere target, for MIRI rotationally-dithered mosaic. Updated to 68 deg S planetocentric (70.6 deg S planetographic), Fletcher 2022-07-06. Extended=YES</i>				
(30)	JUPITER-MAINRING-WEST	STD=JUPITER	TYPE=TORUS, LONG=90, LAT=0, RAD=120000, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0	
<i>Comments: Used only if observation 11 falls in JWST-leading field of regard ("A" semesters) Extended=YES</i>				
(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH
<i>Comments: MIRI MRS background for Ganymede should be 20 arcsec N of Ganymede, to make sure it is off the MIRI FOV but keeps Jupiter at approximately the same relative sky position. Extended=YES</i>				
(32)	JUPITER-FIXED-66S	STD=JUPITER	TYPE=TORUS, LONG=3, LAT=-66, RAD=67559.4, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0	
<i>Comments: FIXED (non-rotating) southern hemisphere target, for NIRSPEC mosaic tracking disk center (no rotation). Extended=YES</i>				
(33)	JUPITER-FIXED-62S	STD=JUPITER	TYPE=TORUS, LONG=3, LAT=-62, RAD=67798.7, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0	
<i>Comments: FIXED (non-rotating) southern hemisphere target, for NIRSPEC mosaic tracking disk center (no rotation). Extended=YES</i>				
(35)	JUPITER-MAINRING-EAST	STD=JUPITER	TYPE=TORUS, LONG=270, LAT=0, RAD=120000, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0	
<i>Comments: Used only if observation 33 falls in JWST-trailing field of regard ("B" semesters) Extended=YES</i>				

Solar System Targets

Proposal 1373 - Targets - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System science

(36)	BG-IO+SXS	STD=JUPITER	STD=IO	TYPE=POS_ANGLE,RAD=132.9,ANG=187.04,REF=NORTH
<i>Comments: Revised MIRI MRS background target for Io, changed to reduce amount of Io scattered light in the background frame (based on lessons learned from Ganymede MIRI background). Position is south-southwest of Io, at approximately the same distance from Jupiter as the Io MIRI observation itself. Extended=YES</i>				

Proposal 1373 - Observation 2 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 2: Jupiter South Pole 1 - MIRI MRS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p><i>Comments: APT 2020.1.2 math: CML should be in the 60-80 W range at some point during the ~80-min span of science exposures. Science exposure starts ~2500 sec (~25 deg of rotation) after observation start. So requirement should be CML between -10 to 80 W.</i></p> <p><i>APT 25.4.2 math: CML should be in the 60-80 W range at some point during the 79-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~48 deg in 79 min, so the requirement becomes CML between 12-128 W.</i></p> <p><i>Initial math: CML should be in the 60-80 W range at some point during the 52-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~30 deg in 52 min, so the requirement becomes CML between 30-110 W.</i></p>														
	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Jupiter South Pole 1 - MIRI MRS (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>														
Diagnosics															
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(23)</td> <td>JUPITER-FIXED-68S</td> <td>STD=JUPITER</td> <td>TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0</td> <td></td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0		<p><i>Comments: FIXED (non-rotating) southern hemisphere target, for MIRI rotationally-dithered mosaic. Updated to 68 deg S planetocentric (70.6 deg S planetographic), Fletcher 2022-07-06. Extended=YES</i></p>			
	#	Name	Level 1	Level 2	Level 3										
(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0												
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>					#	Target	1	NONE						
	#	Target													
1	NONE														
Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F1000W</td> <td>ALL</td> <td>NO</td> <td>FULL</td> <td>NEUTRAL</td> </tr> </tbody> </table>					AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction	F1000W	ALL	NO	FULL	NEUTRAL
	AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction										
F1000W	ALL	NO	FULL	NEUTRAL											
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>					#	Dither Type	Optimized For	Direction	1	2-Point	EXTENDED SOURCE	NEGATIVE		
	#	Dither Type	Optimized For	Direction											
1	2-Point	EXTENDED SOURCE	NEGATIVE												

Proposal 1373 - Observation 2 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LONG(C)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
	1	LONG(C)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
	3	SHORT(A)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
	3	SHORT(A)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
	Special Requirements	<p>Between Dates 06-NOV-2022:00:00:00 and 27-DEC-2022:00:00:00 No Parallel Attachments</p> <p>Sequence Observations 1, 2 within 5 Hours Sequence Observations 2, 3, 4, 25, 26, Non-interruptible</p> <p>DEFAULT WINDOW: ANGULAR RATE JUPITER-FIXED-68S FROM JWST LESS THAN 0.03 CENTRAL MERIDIAN LONGITUDE OF JUPITER FROM JWST BETWEEN -54 18 DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY IO FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY EUROPA FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY GANYMEDE FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY CALLISTO FROM JWST DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-68S IO FROM JWST GREATER THAN 8" DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-68S EUROPA FROM JWST GREATER THAN 8" DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-68S GANYMEDE FROM JWST GREATER THAN 8" DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-68S CALLISTO FROM JWST GREATER THAN 8"</p>											

Proposal 1373 - Observation 3 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 3: Jupiter South Pole - NIRSpec IFU High Res G395H Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter South Pole - NIRSpec IFU High Res G395H (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
Diagnosics												
Solar System Targets	#	Name	Level 1	Level 2				Level 3				
	(32)	JUPITER-FIXED-66S	STD=JUPITER	TYPE=TORUS, LONG=3, LAT=-66, RAD=67559.4, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0								
Comments: FIXED (non-rotating) southern hemisphere target, for NIRSPEC mosaic tracking disk center (no rotation). Extended=YES												
Template	TA Method											
	NONE											
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order					
	3	2	10.0	10.0	41.8	0.0	DEFAULT					
Dithers	#	Dither Type	Size	Starting Point	Number of Points			Points				
	1	CYCLING	LARGE	4	2							
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSRAPID	2	1	false	true	NONE	2	2	64.421	33311

Proposal 1373 - Observation 3 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Special Requirements

Sequence Observations 2, 3, 4, 25, 26, Non-interruptible

DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-66S BY IO FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-66S BY EUROPA FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-66S BY GANYMEDE FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-66S BY CALLISTO FROM JWST
DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-66S IO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-66S EUROPA FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-66S GANYMEDE FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-66S CALLISTO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: ANGULAR RATE JUPITER-FIXED-66S FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 4 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 4: Jupiter South Pole 2 - MIRI MRS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p><i>Comments: APT 2020.1.2 math: CML should be in the 60-80 W range at some point during the ~80-min span of science exposures. Science exposure starts ~2500 sec (~25 deg of rotation) after observation start. So requirement should be CML between -10 to 80 W.</i></p> <p><i>APT 25.4.2 math: CML should be in the 60-80 W range at some point during the 79-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~48 deg in 79 min, so the requirement becomes CML between 12-128 W.</i></p> <p><i>Initial math: CML should be in the 60-80 W range at some point during the 52-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~30 deg in 52 min, so the requirement becomes CML between 30-110 W.</i></p>														
	<p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter South Pole 2 - MIRI MRS (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>														
Diagnosics															
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(23)</td> <td>JUPITER-FIXED-68S</td> <td>STD=JUPITER</td> <td>TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0</td> <td></td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0		<p><i>Comments: FIXED (non-rotating) southern hemisphere target, for MIRI rotationally-dithered mosaic. Updated to 68 deg S planetocentric (70.6 deg S planetographic), Fletcher 2022-07-06. Extended=YES</i></p>			
	#	Name	Level 1	Level 2	Level 3										
(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0												
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>				#	Target	1	NONE							
	#	Target													
1	NONE														
Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F1000W</td> <td>ALL</td> <td>NO</td> <td>FULL</td> <td>NEUTRAL</td> </tr> </tbody> </table>					AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction	F1000W	ALL	NO	FULL	NEUTRAL
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F1000W	ALL	NO	FULL	NEUTRAL											
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>				#	Dither Type	Optimized For	Direction	1	2-Point	EXTENDED SOURCE	NEGATIVE			
	#	Dither Type	Optimized For	Direction											
1	2-Point	EXTENDED SOURCE	NEGATIVE												

Proposal 1373 - Observation 4 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	Spectral Elements	1	LONG(C)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258
1		LONG(C)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
2		MEDIUM(B)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
2		MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
3		SHORT(A)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
3		SHORT(A)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
Special Requirements	No Parallel Attachments												
	Sequence Observations 2, 3, 4, 25, 26, Non-interruptible												
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY IO FROM JWST												
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY EUROPA FROM JWST												
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY GANYMEDE FROM JWST												
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY CALLISTO FROM JWST												
	DEFAULT WINDOW: SEPARATION OF JUPITER-FIXED-68S IO FROM JWST GREATER THAN 8"												
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DEFAULT WINDOW: ANGULAR RATE JUPITER-FIXED-68S FROM JWST LESS THAN 0.03													

Proposal 1373 - Observation 25 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 25: Jupiter South Pole - NIRSpec IFU High Res G235H Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																			
	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter South Pole - NIRSpec IFU High Res G235H (Obs 25)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																			
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Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(33)</td> <td>JUPITER-FIXED-62S</td> <td>STD=JUPITER</td> <td>TYPE=TORUS, LONG=3, LAT=-62, RAD=67798.7, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0</td> <td></td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(33)	JUPITER-FIXED-62S	STD=JUPITER	TYPE=TORUS, LONG=3, LAT=-62, RAD=67798.7, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0		<i>Comments: FIXED (non-rotating) southern hemisphere target, for NIRSPEC mosaic tracking disk center (no rotation). Extended=YES</i>																								
	#	Name	Level 1	Level 2	Level 3																															
(33)	JUPITER-FIXED-62S	STD=JUPITER	TYPE=TORUS, LONG=3, LAT=-62, RAD=67798.7, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0																																	
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Mosaic	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>1</td> <td>10.0</td> <td>10.0</td> <td>41.8</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order	3	1	10.0	10.0	41.8	0.0	DEFAULT																					
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Proposal 1373 - Observation 25 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Sequence Observations 2, 3, 4, 25, 26, Non-interruptible

DEFAULT WINDOW: NOT OCCULTATION OF JUPITER-FIXED-62S BY JUPITER FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-62S BY IO FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-62S BY EUROPA FROM JWST
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-62S BY GANYMEDE FROM JWST
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DEFAULT WINDOW: ANGULAR RATE JUPITER-FIXED-62S FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 26 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 26: Jupiter South Pole 3 - MIRI MRS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p><i>Comments: APT 2020.1.2 math: CML should be in the 60-80 W range at some point during the ~80-min span of science exposures. Science exposure starts ~2500 sec (~25 deg of rotation) after observation start. So requirement should be CML between -10 to 80 W.</i></p> <p><i>APT 25.4.2 math: CML should be in the 60-80 W range at some point during the 79-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~48 deg in 79 min, so the requirement becomes CML between 12-128 W.</i></p> <p><i>Initial math: CML should be in the 60-80 W range at some point during the 52-min observation (est. duration of science integration + instrument overheads - startup overheads of GS Acq and Targ Acq). Jupiter rotates ~30 deg in 52 min, so the requirement becomes CML between 30-110 W.</i></p>														
	<p>(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Jupiter South Pole 3 - MIRI MRS (Obs 26)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>														
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(23)	JUPITER-FIXED-68S	STD=JUPITER	TYPE=TORUS, LONG=0, LAT=-68, RAD=67451, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0												
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Proposal 1373 - Observation 26 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	Spectral Elements	1	LONG(C)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258
1		LONG(C)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
2		MEDIUM(B)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
2		MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
3		SHORT(A)	MRSLONG		FASTR1	5	16	1	Dither 1	2	32	527.258	
3		SHORT(A)	MRSSHORT		FASTR1	5	16	1	Dither 1	2	32	527.258	
Special Requirements	No Parallel Attachments												
	Sequence Observations 2, 3, 4, 25, 26, Non-interruptible												
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-FIXED-68S BY IO FROM JWST												
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Proposal 1373 - Observation 5 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 5: Jupiter GRS - NIRSpec IFU High Res Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy <i>Comments: Need additional solar system target window for this observation: SEPARATION BETWEEN (4 JUPITER-GRS) AND JUPITER FROM JWST LESS THAN -5.7"</i> <i>This constraint was formerly OK but does not compute in APT 25.4.2. Justification: Observations should be done with the target (GRS) not just visible, but also close enough to disk center. Tony Roman helped us determine this SEPARATION constraint would make sure the GRS is at a low emission angle when observed.</i>																																															
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter GRS - NIRSpec IFU High Res (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																															
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	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wbk. Calc ID																																				
	1	G235H/F170LP	NRSRAPID	2	1	false	false	NONE	1	1	32.21	33311																																				
2	G395H/F290LP	NRSRAPID	30	1	false	false	NONE	1	1	332.84	33311																																					

Proposal 1373 - Observation 5 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Special Requirements	Between Dates 23-JUN-2022:00:00:00 and 16-AUG-2022:00:00:00
	Phase -0.111 to 0.011 with period 9.928558049 Hours and zero-phase 2459699.778 HJD
	Aperture PA Range 19.892975 to 28.892975 Degrees (V3 240.92044082 to 249.92044082)
	DEFAULT WINDOW: NOT OCCULTATION OF JUPITER-GRS BY JUPITER FROM JWST
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-GRS BY IO FROM JWST
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-GRS BY EUROPA FROM JWST
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-GRS BY GANYMEDE FROM JWST
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-GRS BY CALLISTO FROM JWST
	DEFAULT WINDOW: SEPARATION OF JUPITER-GRS IO FROM JWST GREATER THAN 3"
	DEFAULT WINDOW: SEPARATION OF JUPITER-GRS EUROPA FROM JWST GREATER THAN 3"
DEFAULT WINDOW: SEPARATION OF JUPITER-GRS GANYMEDE FROM JWST GREATER THAN 3"	
DEFAULT WINDOW: SEPARATION OF JUPITER-GRS CALLISTO FROM JWST GREATER THAN 3"	
DEFAULT WINDOW: ANGULAR RATE JUPITER-GRS FROM JWST LESS THAN 0.03	

Proposal 1373 - Observation 6 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 6: Jupiter 1 - NIRCAM SUB640 Diagnostic Status: Warning Observing Template: NIRCAM Imaging									
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter 1 - NIRCAM SUB640 (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2				Level 3		
	(6)	JUPITER	STD=JUPITER							
<i>Comments: Extended=YES</i>										
Template	Module	Subarray			Target Placement					
	B	SUB640			Module Gap					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F164N+F150W2	F360M	RAPID	3	3	12	4	201.166	33269

Proposal 1373 - Observation 6 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Special Requirements	<p>Phase -0.111 to 0.097 with period 9.928558049 Hours and zero-phase 2459699.778 HJD Aperture PA Range 240.98253766 to 249.98253766 Degrees (V3 240.9604058 to 249.9604058)</p> <p>7 After 6 by 9.5 Hours to 10.51 Hours Sequence Observations 6, 8, Non-interruptible</p> <p>DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03 DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY IO FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY EUROPA FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY GANYMEDE FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY CALLISTO FROM JWST DEFAULT WINDOW: SEPARATION OF JUPITER IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER CALLISTO FROM JWST GREATER THAN 10"</p>
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Proposal 1373 - Observation 7 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 7: Jupiter 2 - NIRCAM SUB640 Diagnostic Status: Warning Observing Template: NIRCAM Imaging									
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter 2 - NIRCAM SUB640 (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2			Level 3			
	(6)	JUPITER	STD=JUPITER							
<i>Comments: Extended=YES</i>										
Template	Module	Subarray			Target Placement					
	B	SUB640			Module Gap					
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	INTRAMODULEBOX	4	STANDARD		1				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F164N+F150W2	F405N+F444W	RAPID	3	3	12	4	201.166	33269
Special Requirements	7 After 6 by 9.5 Hours to 10.51 Hours Sequence Observations 7, 9, Non-interruptible									
	DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03 DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY IO FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY EUROPA FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY GANYMEDE FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY CALLISTO FROM JWST DEFAULT WINDOW: SEPARATION OF JUPITER IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER CALLISTO FROM JWST GREATER THAN 10"									

Proposal 1373 - Observation 8 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 8: Jupiter 1 - NIRCAM Full Diagnostic Status: Warning Observing Template: NIRCAM Imaging										
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter 1 - NIRCAM Full (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnostics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(6)	JUPITER	STD=JUPITER								
<i>Comments: Extended=YES</i>											
Template	Module	Subarray			Target Placement						
	B	FULL			Module Gap						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions					
	1	NONE		SMALL-GRID-DITHER		3					
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F212N	F335M	RAPID	5	1	3	3	161.052	33269	
Special Requirements	Offset -29.2 arcsec, 38.4 arcsec										
	Sequence Observations 6, 8, Non-interruptible DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03 DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY IO FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY EUROPA FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY GANYMEDE FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY CALLISTO FROM JWST DEFAULT WINDOW: SEPARATION OF JUPITER IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER CALLISTO FROM JWST GREATER THAN 10"										

Proposal 1373 - Observation 9 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 9: Jupiter 2 - NIRCAM Full Diagnostic Status: Warning Observing Template: NIRCAM Imaging										
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Jupiter 2 - NIRCAM Full (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnostics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3						
	(6)	JUPITER	STD=JUPITER								
<i>Comments: Extended=YES</i>											
Template	Module	Subarray			Target Placement						
	B	FULL			Module Gap						
Dithers	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions					
	1	NONE		STANDARD		3					
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F212N	F335M	RAPID	5	1	3	3	161.052	33269	
Special Requirements	Offset -29.2 arcsec, 38.4 arcsec										
	Sequence Observations 7, 9, Non-interruptible DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03 DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY IO FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY EUROPA FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY GANYMEDE FROM JWST DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER BY CALLISTO FROM JWST DEFAULT WINDOW: SEPARATION OF JUPITER IO FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER EUROPA FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER GANYMEDE FROM JWST GREATER THAN 10" DEFAULT WINDOW: SEPARATION OF JUPITER CALLISTO FROM JWST GREATER THAN 10"										

Proposal 1373 - Observation 10 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 10: Ring System Leading 1 - NIRCAM Full</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCAM Imaging</p> <p><i>Comments: AFTER: 2019B Portraits 1 and 2 should be separated by 1-3 hours or 5-7 hours. Sequence 11,12,13 sets this up implicitly. The time separation is needed to make sure Adrastea and Metis do not block the same part of the image in both portraits.</i></p> <p><i>PA OFFSET: 2019B Portraits 1 and 2 could be separated by +10+/-1 deg, or -10+/-1 deg. We can only list one requirement, so we just picked -11 to -9 deg for the APT file. The PA offset is needed to make sure that diffraction spikes or other fixed straylight artifacts do not block the same part of the image in both portraits.</i></p>									
	<p>(Ring System Leading 1 - NIRCAM Full (Obs 10)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star ID NB32000129'.</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ring System Leading 1 - NIRCAM Full (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(6)	JUPITER	STD=JUPITER							
<i>Comments: Extended=YES</i>										
Template	Module	Subarray			Target Placement					
	B	FULL			Module Gap					
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions			
	1	NONE			STANDARD		3			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F250M	RAPID	2	2	6	3	161.052	
	2	F150W2	F322W2	BRIGHT1	2	10	30	3	1256.202	

Proposal 1373 - Observation 10 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Between Dates 23-JUN-2022:00:00:00 and 16-AUG-2022:00:00:00
Aperture PA Range 241.67583529 to 243.85583529 Degrees (V3 241.62 to 243.8)
Offset -15.0 arcsec, -7.5 arcsec
Guide Star ID NB32000129

12 After 10 by 2 Hours to 10 Hours
V3 PA Offset 12 from 10 by 8 to 12 Degrees (Same offsets in Aperture)

SEPARATION OF IO JUPITER FROM JWST GREATER THAN 60"
SEPARATION OF EUROPA JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF GANYMEDE JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF CALLISTO JUPITER FROM JWST GREATER THAN 70"
DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03

Observation	<p>Proposal 1373, Observation 11: Main Ring Ansa - NIRCAM SUB400P</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p> <p><i>Comments: Target and OLG-constraints depend on whether observations fall when Jupiter is leading or trailing JWST. Values below should be double-checked with Mark Showalter.</i></p> <p><i>Jupiter trailing JWST:</i> TARGET (12) = Main Ring East 2021B (Oct-01 to Nov-21): NOT ORBITAL LONGITUDE OF METIS FROM JWST BETWEEN 46 134 NOT ORBITAL LONGITUDE OF ADRASTEIA FROM JWST BETWEEN 46 134 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 27 60 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 120 153 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 25 42 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 138 155 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 6 28 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 152 174 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 4 17 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 163 176 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 2 10 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 170 178 NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 1 6 NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 174 179</p> <p><i>Jupiter leading JWST:</i> TARGET (11) = Main Ring West 2022A (Jun-23 to Aug-15): NOT ORBITAL LONGITUDE OF METIS FROM JWST BETWEEN 226 314 NOT ORBITAL LONGITUDE OF ADRASTEIA FROM JWST BETWEEN 226 314 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 207 240 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 300 333 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 205 222 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 318 335 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 186 208 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 332 354 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 184 197 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 343 356 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 182 190 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 350 358 NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 181 186 NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 354 359</p>															
	<p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Main Ring Ansa - NIRCAM SUB400P (Obs 11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>															
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(30)</td> <td>JUPITER-MAINRING-WEST</td> <td>STD=JUPITER</td> <td>TYPE=TORUS.LONG=90,LAT=0,RAD=120000,POL E_LONG=0,POLE_LAT=+90,O_LONG=0,O_LAT=0, O_RAD=0</td> <td></td> </tr> <tr> <td colspan="5"> <p><i>Comments: Used only if observation 11 falls in JWST-leading field of regard ("A" semesters)</i> Extended=YES</p> </td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(30)	JUPITER-MAINRING-WEST	STD=JUPITER	TYPE=TORUS.LONG=90,LAT=0,RAD=120000,POL E_LONG=0,POLE_LAT=+90,O_LONG=0,O_LAT=0, O_RAD=0		<p><i>Comments: Used only if observation 11 falls in JWST-leading field of regard ("A" semesters)</i> Extended=YES</p>				
#	Name	Level 1	Level 2	Level 3												
(30)	JUPITER-MAINRING-WEST	STD=JUPITER	TYPE=TORUS.LONG=90,LAT=0,RAD=120000,POL E_LONG=0,POLE_LAT=+90,O_LONG=0,O_LAT=0, O_RAD=0													
<p><i>Comments: Used only if observation 11 falls in JWST-leading field of regard ("A" semesters)</i> Extended=YES</p>																

Proposal 1373 - Observation 11 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Template	Module		Subarray			Target Placement				
	B		SUB400P			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
	1	NONE				SMALL-GRID-DITHER			3	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F250M	BRIGHT1	2	2	6	3	39.873	
	2	F150W2	F322W2	BRIGHT1	2	10	30	3	199.363	
Special Requirements	Between Dates 23-JUN-2022:00:00:00 and 16-AUG-2022:00:00:00 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 207 240 NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 300 333 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 205 222 NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 318 335 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 186 208 NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 332 354 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 184 197 NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 343 356 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 182 190 NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 350 358 DEFAULT WINDOW: NOT OCCULTATION OF JUPITER-MAINRING-WEST BY JUPITER FROM JWST DEFAULT WINDOW: ANGULAR RATE JUPITER-MAINRING-WEST FROM JWST LESS THAN 0.03									

Proposal 1373 - Observation 33 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 33: Main Ring Ansa - NIRCAM SUB400P</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p> <p>MOSS Planning Start: 02-SEP-2022:00:00:00</p> <p>MOSS Planning End: 01-APR-2023:00:00:00</p> <p><i>Comments: This is a replacement for Obs. 11 that failed. There is not enough time to schedule the replacement observation in the 2022A window, so it is designed for the 2022B window (Nov-Dec 2022, JWST-trailing, sky-east ring ansa).</i></p> <p><i>NOT ORBITAL LONGITUDE OF METIS FROM JWST BETWEEN 46 134</i></p> <p><i>NOT ORBITAL LONGITUDE OF ADRASTEIA FROM JWST BETWEEN 46 134</i></p> <p><i>NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 27 60</i></p> <p><i>NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 120 153</i></p> <p><i>NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 25 42</i></p> <p><i>NOT ORBITAL LONGITUDE OF THEBE FROM JWST BETWEEN 138 155</i></p> <p><i>NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 6 28</i></p> <p><i>NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 152 174</i></p> <p><i>NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 4 17</i></p> <p><i>NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 163 176</i></p> <p><i>NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 2 10</i></p> <p><i>NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 170 178</i></p> <p><i>NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 1 6</i></p> <p><i>NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 174 179</i></p>																
	Diagnostics	<p>(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Main Ring Ansa - NIRCAM SUB400P (Obs 33)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>															
Solar System Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(35)</td> <td>JUPITER-MAINRING-EAST</td> <td>STD=JUPITER</td> <td>TYPE=TORUS, LONG=270, LAT=0, RAD=120000, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Used only if observation 33 falls in JWST-trailing field of regard ("B" semesters)</i></p> <p><i>Extended=YES</i></p>					#	Name	Level 1	Level 2	Level 3	(35)	JUPITER-MAINRING-EAST	STD=JUPITER	TYPE=TORUS, LONG=270, LAT=0, RAD=120000, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0		
	#	Name	Level 1	Level 2	Level 3												
(35)	JUPITER-MAINRING-EAST	STD=JUPITER	TYPE=TORUS, LONG=270, LAT=0, RAD=120000, POLE_LONG=0, POLE_LAT=+90, O_LONG=0, O_LAT=0, O_RAD=0														
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Subarray</th> <th>Target Placement</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>SUB400P</td> <td>Module Gap</td> </tr> </tbody> </table>					Module	Subarray	Target Placement	B	SUB400P	Module Gap						
	Module	Subarray	Target Placement														
B	SUB400P	Module Gap															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Dither Type</th> <th>Dither Size</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> <td></td> <td>SMALL-GRID-DITHER</td> <td></td> <td>3</td> </tr> </tbody> </table>					#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions	1	NONE		SMALL-GRID-DITHER		3
	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions											
1	NONE		SMALL-GRID-DITHER		3												

Proposal 1373 - Observation 33 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
		1	F212N	F300M	BRIGHT1	2	2	6	3	39.873
	2	F150W2	F322W2	BRIGHT1	2	10	30	3	199.363	
Special Requirements	Between Dates 06-NOV-2022:00:00:00 and 27-DEC-2022:00:00:00									
	NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 27 60									
	NOT ORBITAL LONGITUDE OF AMALTHEA FROM JWST BETWEEN 120 153									
	NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 6 28									
	NOT ORBITAL LONGITUDE OF IO FROM JWST BETWEEN 152 174									
	NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 4 17									
	NOT ORBITAL LONGITUDE OF EUROPA FROM JWST BETWEEN 163 176									
	NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 2 10									
	NOT ORBITAL LONGITUDE OF GANYMEDE FROM JWST BETWEEN 170 178									
	NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 1 6									
	NOT ORBITAL LONGITUDE OF CALLISTO FROM JWST BETWEEN 174 179									
	DEFAULT WINDOW: NOT OCCULTATION OF JUPITER-MAINRING-EAST BY JUPITER FROM JWST									
	DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-MAINRING-EAST BY IO FROM JWST									
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-MAINRING-EAST BY EUROPA FROM JWST										
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-MAINRING-EAST BY GANYMEDE FROM JWST										
DEFAULT WINDOW: NOT ECLIPSE PENUMBRAL PARTIAL OF JUPITER-MAINRING-EAST BY CALLISTO FROM JWST										
DEFAULT WINDOW: SEPARATION OF JUPITER-MAINRING-EAST IO FROM JWST GREATER THAN 10"										
DEFAULT WINDOW: SEPARATION OF JUPITER-MAINRING-EAST EUROPA FROM JWST GREATER THAN 10"										
DEFAULT WINDOW: SEPARATION OF JUPITER-MAINRING-EAST GANYMEDE FROM JWST GREATER THAN 10"										
DEFAULT WINDOW: SEPARATION OF JUPITER-MAINRING-EAST CALLISTO FROM JWST GREATER THAN 10"										
DEFAULT WINDOW: ANGULAR RATE JUPITER-MAINRING-EAST FROM JWST LESS THAN 0.03										

Proposal 1373 - Observation 12 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 12: Ring System Leading 2 - NIRCAM Full</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCAM Imaging</p> <p><i>Comments: AFTER: 2019B Portraits 1 and 2 should be separated by 1-3 hours or 5-7 hours. Sequence 11,12,13 sets this up implicitly. The time separation is needed to make sure Adrastea and Metis do not block the same part of the image in both portraits.</i></p> <p><i>PA OFFSET: 2019B Portraits 1 and 2 could be separated by +10+/-1 deg, or -10+/-1 deg. We can only list one requirement, so we just picked -11 to -9 deg for the APT file. The PA offset is needed to make sure that diffraction spikes or other fixed straylight artifacts do not block the same part of the image in both portraits.</i></p>									
	<p>(Ring System Leading 2 - NIRCAM Full (Obs 12)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star ID NB32001736'.</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ring System Leading 2 - NIRCAM Full (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
	(6)	JUPITER	STD=JUPITER							
<i>Comments: Extended=YES</i>										
Template	Module	Subarray			Target Placement					
	B	FULL			Module Gap					
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions			
	1	NONE			STANDARD		3			
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F250M	RAPID	2	2	6	3	161.052	
	2	F150W2	F322W2	BRIGHT1	2	10	30	3	1256.202	

Proposal 1373 - Observation 12 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Aperture PA Range 250.67583529 to 252.85583529 Degrees (V3 250.62 to 252.8)
Offset -15.0 arcsec, -7.5 arcsec
Guide Star ID NB32001736

12 After 10 by 2 Hours to 10 Hours
V3 PA Offset 12 from 10 by 8 to 12 Degrees (Same offsets in Aperture)

DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03
SEPARATION OF IO JUPITER FROM JWST GREATER THAN 60"
SEPARATION OF EUROPA JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF GANYMEDE JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF CALLISTO JUPITER FROM JWST GREATER THAN 70"

Proposal 1373 - Observation 13 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 13: Ring System Trailing 1 - NIRCAM Full</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCAM Imaging</p> <p><i>Comments: AFTER: 2019A Portraits 1 and 2 could be separated by 1-3 hours or 5-7 hours. We can only list one requirement, so we just picked 5-7 hours for the APT file. The time separation is needed to make sure Adrastea and Metis do not block the same part of the image in both portraits.</i></p> <p><i>PA OFFSET: 2019A Portraits 1 and 2 could be separated by +10+/-1 deg, or -10+/-1 deg. We can only list one requirement, so we just picked 9-11 deg for the APT file. The PA offset is needed to make sure that diffraction spikes or other fixed straylight artifacts do not block the same part of the image in both portraits.</i></p>																																																
Diagnostics	<p>(Ring System Trailing 1 - NIRCAM Full (Obs 13)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star ID SB2L003036'.</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ring System Trailing 1 - NIRCAM Full (Obs 13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																																
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>JUPITER</td> <td>STD=JUPITER</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>									#	Name	Level 1	Level 2	Level 3	(6)	JUPITER	STD=JUPITER																																
#	Name	Level 1	Level 2	Level 3																																													
(6)	JUPITER	STD=JUPITER																																															
Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Subarray</th> <th>Target Placement</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>FULL</td> <td>Module Gap</td> </tr> </tbody> </table>									Module	Subarray	Target Placement	B	FULL	Module Gap																																		
Module	Subarray	Target Placement																																															
B	FULL	Module Gap																																															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Dither Type</th> <th>Dither Size</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> <td></td> <td>STANDARD</td> <td></td> <td>3</td> </tr> </tbody> </table>									#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions	1	NONE		STANDARD		3																												
#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions																																												
1	NONE		STANDARD		3																																												
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F212N</td> <td>F300M</td> <td>RAPID</td> <td>2</td> <td>2</td> <td>6</td> <td>3</td> <td>161.052</td> <td></td> </tr> <tr> <td>2</td> <td>F212N</td> <td>F300M</td> <td>BRIGHT1</td> <td>2</td> <td>2</td> <td>6</td> <td>3</td> <td>225.472</td> <td></td> </tr> <tr> <td>3</td> <td>F150W2</td> <td>F322W2</td> <td>BRIGHT1</td> <td>2</td> <td>10</td> <td>30</td> <td>3</td> <td>1256.202</td> <td></td> </tr> </tbody> </table>									#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F212N	F300M	RAPID	2	2	6	3	161.052		2	F212N	F300M	BRIGHT1	2	2	6	3	225.472		3	F150W2	F322W2	BRIGHT1	2	10	30	3	1256.202	
#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																																								
1	F212N	F300M	RAPID	2	2	6	3	161.052																																									
2	F212N	F300M	BRIGHT1	2	2	6	3	225.472																																									
3	F150W2	F322W2	BRIGHT1	2	10	30	3	1256.202																																									

Proposal 1373 - Observation 13 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Between Dates 06-NOV-2022:00:00:00 and 26-DEC-2022:00:00:00
Aperture PA Range 58.02984889 to 60.05583529 Degrees (V3 57.9740136 to 60.0)
Offset -15.0 arcsec, -7.5 arcsec
Guide Star ID SB2L003036

14 After 13 by 1 Hours to 3 Hours
Aperture PA Offset 14 from 13 by 9 to 11 Degrees (Same offsets in V3)

SEPARATION OF IO JUPITER FROM JWST GREATER THAN 60"
SEPARATION OF EUROPA JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF GANYMEDE JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF CALLISTO JUPITER FROM JWST GREATER THAN 70"
DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 14 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 14: Ring System Trailing 2 - NIRCAM Full</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCAM Imaging</p> <p><i>Comments: AFTER: 2019A Portraits 1 and 2 could be separated by 1-3 hours or 5-7 hours. We can only list one requirement, so we just picked 5-7 hours for the APT file. The time separation is needed to make sure Adrastea and Metis do not block the same part of the image in both portraits.</i></p> <p><i>PA OFFSET: 2019A Portraits 1 and 2 could be separated by +10+/-1 deg, or -10+/-1 deg. We can only list one requirement, so we just picked 9-11 deg for the APT file. The PA offset is needed to make sure that diffraction spikes or other fixed straylight artifacts do not block the same part of the image in both portraits.</i></p>									
Diagnostics	<p>(Ring System Trailing 2 - NIRCAM Full (Obs 14)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star ID SB2L003019'.</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ring System Trailing 2 - NIRCAM Full (Obs 14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Solar System Targets	#	Name	Level 1	Level 2	Level 3					
(6)	JUPITER	STD=JUPITER								
<i>Comments: Extended=YES</i>										
Template	Module	Subarray			Target Placement					
B	FULL			Module Gap						
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions			
1	NONE			STANDARD		3				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F212N	F300M	RAPID	2	2	6	3	161.052		
2	F150W2	F322W2	BRIGHT1	2	10	30	3	1256.202		

Proposal 1373 - Observation 14 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Aperture PA Range 69.05583529 to 72.02984889 Degrees (V3 69.0 to 71.9740136)
Offset -15.0 arcsec, -7.5 arcsec
Guide Star ID SB2L003019

14 After 13 by 1 Hours to 3 Hours
Aperture PA Offset 14 from 13 by 9 to 11 Degrees (Same offsets in V3)

DEFAULT WINDOW: ANGULAR RATE JUPITER FROM JWST LESS THAN 0.03
SEPARATION OF IO JUPITER FROM JWST GREATER THAN 60"
SEPARATION OF EUROPA JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF GANYMEDE JUPITER FROM JWST GREATER THAN 70"
SEPARATION OF CALLISTO JUPITER FROM JWST GREATER THAN 70"

Proposal 1373 - Observation 15 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 15: Io Leading Hemisphere - MIRI MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Comments: For MIRI we wish to be near maximum elongation												
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Io Leading Hemisphere - MIRI MRS (Obs 15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(7)	IO	STD=JUPITER				STD=IO						
Comments: Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray		Grating Wheel Direction	
	F560W	CHANNEL1				NO				FULL		NEUTRAL	
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	1	SHORT(A)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	3	LONG(C)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	3	LONG(C)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	

Proposal 1373 - Observation 15 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 15, 22 within 5 Hours
Group Observations 15, 18, 19, 22, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03
CENTRAL MERIDIAN LONGITUDE OF IO FROM JWST BETWEEN 45 135
DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF IO EUROPA FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF IO GANYMEDE FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF IO CALLISTO FROM JWST GREATER THAN 8"

Proposal 1373 - Observation 31 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 31: Io Leading Hemisphere - MIRI MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy <i>Comments: COPY of Obs. 15 which was skipped by the observatory. Obs 31 will run in the Nov/Dec visibility season. Some edits were made to improve background correction based on Ganymede MIRI observations already completed.</i>												
	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Io Leading Hemisphere - MIRI MRS (Obs 31)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(7)	IO	STD=JUPITER				STD=IO						
<i>Comments: Extended=YES</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	CHANNEL1				NO			FULL		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LONG(C)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	1	LONG(C)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	3	SHORT(A)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	3	SHORT(A)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	

Proposal 1373 - Observation 31 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 31, 32, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03
CENTRAL MERIDIAN LONGITUDE OF IO FROM JWST BETWEEN 60 120
DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF IO EUROPA FROM JWST GREATER THAN 40"
DEFAULT WINDOW: SEPARATION OF IO GANYMEDE FROM JWST GREATER THAN 40"
DEFAULT WINDOW: SEPARATION OF IO CALLISTO FROM JWST GREATER THAN 40"

Proposal 1373 - Observation 16 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 16: Io Eclipse - NIRSpec IFU Short</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: Short wavelength observations (Obs 16) do not schedule in 2022 according to APT Visit Planner. But JWST schedulers can find possibilities in the Nov/Dec visibility season by setting the MOSS calculation to a finer timestep. If possible, please schedule Obs 16 and 24 on consecutive eclipses (about 1.8 days apart), or at least within about 7 Io orbits (within about 14 days) of each other.</i></p>																																			
Diagnostics	<p>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Short (Obs 16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																			
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>IO</td> <td>STD=JUPITER</td> <td>STD=IO</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>												#	Name	Level 1	Level 2	Level 3	(7)	IO	STD=JUPITER	STD=IO															
#	Name	Level 1	Level 2	Level 3																																
(7)	IO	STD=JUPITER	STD=IO																																	
Template	<p>TA Method</p> <p>NONE</p>																																			
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SPARSE-CYCLING</td> <td>SMALL</td> <td></td> <td></td> <td>1,2,3,4</td> </tr> </tbody> </table>												#	Dither Type	Size	Starting Point	Number of Points	Points	1	SPARSE-CYCLING	SMALL			1,2,3,4												
#	Dither Type	Size	Starting Point	Number of Points	Points																															
1	SPARSE-CYCLING	SMALL			1,2,3,4																															
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G140H/F100LP</td> <td>NRSIRS2RAPID</td> <td>11</td> <td>4</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>16</td> <td>2801.067</td> <td></td> </tr> </tbody> </table>												#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G140H/F100LP	NRSIRS2RAPID	11	4	false	true	NONE	4	16	2801.067	
#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	G140H/F100LP	NRSIRS2RAPID	11	4	false	true	NONE	4	16	2801.067																										
Special Requirements	<p>Between Dates 06-NOV-2022:00:00:00 and 27-DEC-2022:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST</p> <p>ECLIPSE UMBRAL FULL OF IO BY JUPITER FROM JWST</p>																																			

Proposal 1373 - Observation 34 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 34: Io Eclipse - NIRSpec IFU Short</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: Short wavelength observations (Obs 16) do not schedule in 2022 according to APT Visit Planner. But JWST schedulers can find possibilities in the Nov/Dec visibility season by setting the MOSS calculation to a finer timestep. If possible, please schedule Obs 34 and 35 on consecutive eclipses (about 1.8 days apart), or at least within about 7 Io orbits (within about 14 days) of each other.</i></p> <p>WOPR repeat of obs 16:1.</p>																																			
Diagnostics	<p>(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Short (Obs 34)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																			
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#	Name	Level 1	Level 2	Level 3																																
(7)	IO	STD=JUPITER	STD=IO																																	
Template	<p>TA Method</p> <p>NONE</p>																																			
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SPARSE-CYCLING</td> <td>SMALL</td> <td></td> <td></td> <td>1,2,3,4</td> </tr> </tbody> </table>												#	Dither Type	Size	Starting Point	Number of Points	Points	1	SPARSE-CYCLING	SMALL			1,2,3,4												
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G140H/F100LP</td> <td>NRSIRS2RAPID</td> <td>10</td> <td>4</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>16</td> <td>2567.645</td> <td></td> </tr> </tbody> </table>												#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G140H/F100LP	NRSIRS2RAPID	10	4	false	true	NONE	4	16	2567.645	
#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	G140H/F100LP	NRSIRS2RAPID	10	4	false	true	NONE	4	16	2567.645																										
Special Requirements	<p>Between Dates 01-AUG-2023:00:00:00 and 14-AUG-2023:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST</p> <p>ECLIPSE UMBRAL FULL OF IO BY JUPITER FROM JWST</p>																																			

Proposal 1373 - Observation 36 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 36: Io Eclipse - NIRSpec IFU Short</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: Short wavelength observations (Obs 16) do not schedule in 2022 according to APT Visit Planner. But JWST schedulers can find possibilities in the Nov/Dec visibility season by setting the MOSS calculation to a finer timestep. If possible, please schedule Obs 34 and 35 on consecutive eclipses (about 1.8 days apart), or at least within about 7 Io orbits (within about 14 days) of each other.</i></p> <p><i>WOPR repeat of obs 34:1</i></p>																																			
	<p>(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Short (Obs 36)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> <p>(Visit 36:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>																																			
Diagnostics	<p>(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Short (Obs 36)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> <p>(Visit 36:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>																																			
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(7)	IO	STD=JUPITER	STD=IO																																	
<p><i>Comments: Extended=YES</i></p>																																				
Template	<p>TA Method</p> <p>NONE</p>																																			
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SPARSE-CYCLING</td> <td>SMALL</td> <td></td> <td></td> <td>1,2,3,4</td> </tr> </tbody> </table>												#	Dither Type	Size	Starting Point	Number of Points	Points	1	SPARSE-CYCLING	SMALL			1,2,3,4												
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1	G140H/F100LP	NRSIRS2RAPID	10	4	false	true	NONE	4	16	2567.645																										
Special Requirements	<p>DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST</p> <p>ECLIPSE UMBRAL FULL OF IO BY JUPITER FROM JWST</p>																																			

Proposal 1373 - Observation 24 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 24: Io Eclipse - NIRSpec IFU Long</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: If possible, please schedule Obs 16 and 24 on consecutive eclipses (about 1.8 days apart), or at least within about 7 Io orbits (within about 14 days) of each other.</i></p>																																															
Diagnostics	<p>(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Long (Obs 24)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																															
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>IO</td> <td>STD=JUPITER</td> <td>STD=IO</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>												#	Name	Level 1	Level 2	Level 3	(7)	IO	STD=JUPITER	STD=IO																											
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Template	<p>TA Method</p> <p>NONE</p>																																															
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#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																					
1	G395H/F290LP	NRSRAPID	2	2	false	true	NONE	4	8	257.682																																						
2	G235H/F170LP	NRSRAPID	2	4	false	true	NONE	4	16	515.365																																						
Special Requirements	<p>Between Dates 06-NOV-2022:00:00:00 and 27-DEC-2022:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST</p> <p>ECLIPSE UMBRAL FULL OF IO BY JUPITER FROM JWST</p>																																															

Proposal 1373 - Observation 35 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 35: Io Eclipse - NIRSpec IFU Long</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: If possible, please schedule Obs 34 and 35 on consecutive eclipses (about 1.8 days apart), or at least within about 7 Io orbits (within about 14 days) of each other.</i></p> <p><i>WOPR repeat of observation 24.</i></p>																																															
Diagnostics	<p>(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Io Eclipse - NIRSpec IFU Long (Obs 35)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																															
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>IO</td> <td>STD=JUPITER</td> <td>STD=IO</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>												#	Name	Level 1	Level 2	Level 3	(7)	IO	STD=JUPITER	STD=IO																											
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Special Requirements	<p>Between Dates 01-AUG-2023:00:00:00 and 14-AUG-2023:00:00:00</p> <p>DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03</p> <p>DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST</p> <p>ECLIPSE UMBRAL FULL OF IO BY JUPITER FROM JWST</p>																																															

Proposal 1373 - Observation 17 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 17: Io disk - NIRISS SUB80 Diagnostic Status: Warning Observing Template: NIRISS Aperture Masking Interferometry									
	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Io disk - NIRISS SUB80 (Obs 17)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1			Level 2			Level 3	
	(7)	IO	STD=JUPITER			STD=IO				
<i>Comments: Extended=YES</i>										
Acquisition	#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	AMIBRIGHT	F480M	NISRAPID	9	1	1	0.475	1
Template	Subarray					Direct Image				
	SUB80					false				
Dithers	#	Primary Dithers				Subpixel Positions				
	1	NONE				5				
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F430M	NISRAPID	45	100	5	500	1745.36	24939	

Proposal 1373 - Observation 17 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

PSF References	NIRISS PSF - AMI (Obs 23) (PSF Reference; Filters [F430M]) Additional Justification: false
Special Requirements	No Parallel Attachments Group Observations 17, 23, Non-interruptible DEFAULT WINDOW: ANGULAR RATE IO FROM JWST LESS THAN 0.03 DEFAULT WINDOW: NOT OCCULTATION OF IO BY JUPITER FROM JWST CENTRAL MERIDIAN LONGITUDE OF IO FROM JWST BETWEEN 45 135

Proposal 1373 - Observation 18 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 18: Ganymede Leading Hemisphere - MIRI MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ganymede Leading Hemisphere - MIRI MRS (Obs 18)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(1)	GANYMEDE	STD=JUPITER				STD=GANYMEDE						
Comments: Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	CHANNEL1				NO			FULL		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	1	SHORT(A)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	3	LONG(C)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	3	LONG(C)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	

Proposal 1373 - Observation 18 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 15, 18, 19, 22, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE GANYMEDE FROM JWST LESS THAN 0.03
CENTRAL MERIDIAN LONGITUDE OF GANYMEDE FROM JWST BETWEEN 60 120
DEFAULT WINDOW: NOT OCCULTATION OF GANYMEDE BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF GANYMEDE IO FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF GANYMEDE EUROPA FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF GANYMEDE CALLISTO FROM JWST GREATER THAN 8"

Proposal 1373 - Observation 19 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 19: Ganymede Leading Hemisphere - NIRSpec IFU High Res Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																			
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ganymede Leading Hemisphere - NIRSpec IFU High Res (Obs 19)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																			
Diagnostics																																				
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>GANYMEDE</td> <td>STD=JUPITER</td> <td>STD=GANYMEDE</td> <td></td> </tr> <tr> <td colspan="5"><i>Comments: Extended=YES</i></td> </tr> </tbody> </table>												#	Name	Level 1	Level 2	Level 3	(1)	GANYMEDE	STD=JUPITER	STD=GANYMEDE		<i>Comments: Extended=YES</i>													
	#	Name	Level 1	Level 2	Level 3																															
(1)	GANYMEDE	STD=JUPITER	STD=GANYMEDE																																	
<i>Comments: Extended=YES</i>																																				
Template	TA Method																																			
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Special Requirements	Group Observations 15, 18, 19, 22, Non-interruptible DEFAULT WINDOW: ANGULAR RATE GANYMEDE FROM JWST LESS THAN 0.03 CENTRAL MERIDIAN LONGITUDE OF GANYMEDE FROM JWST BETWEEN 60 120 DEFAULT WINDOW: NOT OCCULTATION OF GANYMEDE BY JUPITER FROM JWST SEPARATION OF GANYMEDE IO FROM JWST GREATER THAN 8" SEPARATION OF GANYMEDE EUROPA FROM JWST GREATER THAN 8" SEPARATION OF GANYMEDE CALLISTO FROM JWST GREATER THAN 8"																																			

Proposal 1373 - Observation 27 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 27: Ganymede Trailing Hemisphere - MIRI MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ganymede Trailing Hemisphere - MIRI MRS (Obs 27)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1			Level 2			Level 3				
	(1)	GANYMEDE	STD=JUPITER			STD=GANYMEDE							
Comments: Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F560W	CHANNEL1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	1	SHORT(A)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	3	LONG(C)	MRSLONG		FASTR1	5	44	1	Dither 1	4	176	2919.342	
	3	LONG(C)	MRSSHORT		FASTR1	5	44	1	Dither 1	4	176	2919.342	

Proposal 1373 - Observation 27 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 27, 28, 30, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE GANYMEDE FROM JWST LESS THAN 0.03
CENTRAL MERIDIAN LONGITUDE OF GANYMEDE FROM JWST BETWEEN 240 300
DEFAULT WINDOW: NOT OCCULTATION OF GANYMEDE BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF GANYMEDE IO FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF GANYMEDE EUROPA FROM JWST GREATER THAN 8"
DEFAULT WINDOW: SEPARATION OF GANYMEDE CALLISTO FROM JWST GREATER THAN 8"

Proposal 1373 - Observation 28 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 28: Ganymede Trailing Hemisphere - NIRSpec IFU High Res Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																			
	(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ganymede Trailing Hemisphere - NIRSpec IFU High Res (Obs 28)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																			
Diagnostics																																				
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>GANYMEDE</td> <td>STD=JUPITER</td> <td>STD=GANYMEDE</td> <td></td> </tr> <tr> <td colspan="5"><i>Comments: Extended=YES</i></td> </tr> </tbody> </table>												#	Name	Level 1	Level 2	Level 3	(1)	GANYMEDE	STD=JUPITER	STD=GANYMEDE		<i>Comments: Extended=YES</i>													
	#	Name	Level 1	Level 2	Level 3																															
(1)	GANYMEDE	STD=JUPITER	STD=GANYMEDE																																	
<i>Comments: Extended=YES</i>																																				
Template	TA Method																																			
	NONE																																			
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>SMALL</td> <td>1</td> <td>4</td> <td></td> </tr> </tbody> </table>												#	Dither Type	Size	Starting Point	Number of Points	Points	1	CYCLING	SMALL	1	4													
	#	Dither Type	Size	Starting Point	Number of Points	Points																														
1	CYCLING	SMALL	1	4																																
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395H/F290LP</td> <td>NRSRAPID</td> <td>10</td> <td>4</td> <td>false</td> <td>true</td> <td>NONE</td> <td>4</td> <td>16</td> <td>1889.672</td> <td></td> </tr> </tbody> </table>												#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G395H/F290LP	NRSRAPID	10	4	false	true	NONE	4	16	1889.672	
	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																								
1	G395H/F290LP	NRSRAPID	10	4	false	true	NONE	4	16	1889.672																										
Special Requirements	Group Observations 27, 28, 30, Non-interruptible DEFAULT WINDOW: ANGULAR RATE GANYMEDE FROM JWST LESS THAN 0.03 CENTRAL MERIDIAN LONGITUDE OF GANYMEDE FROM JWST BETWEEN 240 300 DEFAULT WINDOW: NOT OCCULTATION OF GANYMEDE BY JUPITER FROM JWST SEPARATION OF GANYMEDE IO FROM JWST GREATER THAN 8" SEPARATION OF GANYMEDE EUROPA FROM JWST GREATER THAN 8" SEPARATION OF GANYMEDE CALLISTO FROM JWST GREATER THAN 8"																																			

Proposal 1373 - Observation 20 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 20: Ganymede Eclipse - NIRSpec IFU Low Res Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Ganymede Eclipse - NIRSpec IFU Low Res (Obs 20)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.											
Diagnosics												
Solar System Targets	#	Name	Level 1			Level 2			Level 3			
	(1)	GANYMEDE	STD=JUPITER			STD=GANYMEDE						
Comments: Extended=YES												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		SMALL	1		4					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	NRSIRS2RAPID	14	2	false	true	NONE	4	8	1750.667	
Special Requirements	Between Dates 23-JUN-2022:00:00:00 and 16-AUG-2022:00:00:00 DEFAULT WINDOW: ANGULAR RATE GANYMEDE FROM JWST LESS THAN 0.03 ECLIPSE UMBRAL FULL OF GANYMEDE BY JUPITER FROM JWST DEFAULT WINDOW: NOT OCCULTATION OF GANYMEDE BY JUPITER FROM JWST											

Proposal 1373 - Observation 1 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 1: MIRI Background - Jupiter 5x16 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI Background - Jupiter 5x16 (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnostics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(3)	BACKGROUND+90N	STD=JUPITER				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Comments: MIRI MRS background should be 90 deg N of Jupiter for JWST-leading orientation (e.g., Jupiter in 2022-Jun-23 to 2022-Aug-1 range). Switch background to 90 deg S of Jupiter for JWST-trailing orientation (this keeps Jupiter off of the MIRI imager apertures). Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F1000W	ALL				NO			FULL		NEUTRAL		
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LONG(C)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	1	LONG(C)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	
	3	SHORT(A)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629	
	3	SHORT(A)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629	

Proposal 1373 - Observation 1 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System sci...

Special Requirements

Sequence Observations 1, 2 within 5 Hours

DEFAULT WINDOW: ANGULAR RATE BACKGROUND+90N FROM JWST LESS THAN 0.03
DEFAULT WINDOW: NOT OCCULTATION OF BACKGROUND+90N BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF BACKGROUND+90N IO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BACKGROUND+90N EUROPA FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BACKGROUND+90N GANYMEDE FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BACKGROUND+90N CALLISTO FROM JWST GREATER THAN 10"

Proposal 1373 - Observation 22 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 22: MIRI Background - Ganymede Leading 5x44 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																						
	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI Background - Ganymede Leading 5x44 (Obs 22)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																						
Diagnosics																							
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(31)</td> <td>BG-GANYMEDE+20N</td> <td>STD=JUPITER</td> <td>STD=GANYMEDE</td> <td>TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH	<i>Comments: MIRI MRS background for Ganymede should be 20 arcsec N of Ganymede, to make sure it is off the MIRI FOV but keeps Jupiter at approximately the same relative sky position.</i> Extended=YES											
	#	Name	Level 1	Level 2	Level 3																		
(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH																			
Acquisition	#	Target																					
	1	NONE																					
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction													
	F1000W	ALL			NO			FULL		NEUTRAL													
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID										
	1	SHORT(A)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	1	SHORT(A)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											

Proposal 1373 - Observation 22 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 15, 22 within 5 Hours
Group Observations 15, 18, 19, 22, Non-interruptible

DEFAULT WINDOW: NOT OCCULTATION OF BG-GANYMEDE+20N BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N IO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N EUROPA FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N CALLISTO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: ANGULAR RATE BG-GANYMEDE+20N FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 32 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 32: MIRI Background - Io Leading 5x16 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy <i>Comments: Revised MIRI MRS background for Io, changed to reduce amount of Io scattered light in the background frame (based on lessons learned from Ganymede MIRI background). Position is south-southwest of Io, at approximately the same distance from Jupiter as the Io MIRI observation itself.</i>																						
	(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI Background - Io Leading 5x16 (Obs 32)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																						
Diagnosics																							
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(36)</td> <td>BG-IO+SXS</td> <td>STD=JUPITER</td> <td>STD=IO</td> <td>TYPE=POS_ANGLE,RAD=132.9,ANG=187.04,REF=NORTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(36)	BG-IO+SXS	STD=JUPITER	STD=IO	TYPE=POS_ANGLE,RAD=132.9,ANG=187.04,REF=NORTH	<i>Comments: Revised MIRI MRS background target for Io, changed to reduce amount of Io scattered light in the background frame (based on lessons learned from Ganymede MIRI background). Position is south-southwest of Io, at approximately the same distance from Jupiter as the Io MIRI observation itself.</i> Extended=YES											
	#	Name	Level 1	Level 2	Level 3																		
(36)	BG-IO+SXS	STD=JUPITER	STD=IO	TYPE=POS_ANGLE,RAD=132.9,ANG=187.04,REF=NORTH																			
Acquisition	#	Target																					
	1	NONE																					
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction												
	F1000W	ALL			NO			FULL			NEUTRAL												
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID										
	1	LONG(C)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629											
	1	LONG(C)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629											
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629											
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629											
	3	SHORT(A)	MRSLONG		FASTR1	5	16	1	None	1	16	263.629											
	3	SHORT(A)	MRSSHORT		FASTR1	5	16	1	None	1	16	263.629											

Proposal 1373 - Observation 32 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 31, 32, Non-interruptible

DEFAULT WINDOW: NOT OCCULTATION OF BG-IO+SXSU BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF BG-IO+SXSU EUROPA FROM JWST GREATER THAN 40"
DEFAULT WINDOW: SEPARATION OF BG-IO+SXSU GANYMEDE FROM JWST GREATER THAN 40"
DEFAULT WINDOW: SEPARATION OF BG-IO+SXSU CALLISTO FROM JWST GREATER THAN 40"
DEFAULT WINDOW: ANGULAR RATE BG-IO+SXSU FROM JWST LESS THAN 0.075

Proposal 1373 - Observation 29 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 29: MIRI Background - Ganymede Trailing 5x44 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																						
	(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI Background - Ganymede Trailing 5x44 (Obs 29)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																						
Diagnosics																							
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(31)</td> <td>BG-GANYMEDE+20N</td> <td>STD=JUPITER</td> <td>STD=GANYMEDE</td> <td>TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH	<i>Comments: MIRI MRS background for Ganymede should be 20 arcsec N of Ganymede, to make sure it is off the MIRI FOV but keeps Jupiter at approximately the same relative sky position.</i> Extended=YES											
	#	Name	Level 1	Level 2	Level 3																		
(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH																			
Acquisition	#	Target																					
	1	NONE																					
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction													
	F1000W	ALL			NO			FULL		NEUTRAL													
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID										
	1	SHORT(A)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	1	SHORT(A)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											

Proposal 1373 - Observation 29 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

DEFAULT WINDOW: NOT OCCULTATION OF BG-GANYMEDE+20N BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N IO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N EUROPA FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N CALLISTO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: ANGULAR RATE BG-GANYMEDE+20N FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 30 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	Proposal 1373, Observation 30: MIRI Background - Ganymede Trailing 5x44 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																						
	(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI Background - Ganymede Trailing 5x44 (Obs 30)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																						
Diagnostics																							
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> </tr> </thead> <tbody> <tr> <td>(31)</td> <td>BG-GANYMEDE+20N</td> <td>STD=JUPITER</td> <td>STD=GANYMEDE</td> <td>TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH	<i>Comments: MIRI MRS background for Ganymede should be 20 arcsec N of Ganymede, to make sure it is off the MIRI FOV but keeps Jupiter at approximately the same relative sky position.</i> Extended=YES											
	#	Name	Level 1	Level 2	Level 3																		
(31)	BG-GANYMEDE+20N	STD=JUPITER	STD=GANYMEDE	TYPE=POS_ANGLE,RAD=20,ANG=0,REF=NORTH																			
Acquisition	#	Target																					
	1	NONE																					
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction												
	F1000W	ALL			NO			FULL			NEUTRAL												
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID										
	1	SHORT(A)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	1	SHORT(A)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSLONG		FASTR1	5	44	1	None	1	44	729.836											
	3	LONG(C)	MRSSHORT		FASTR1	5	44	1	None	1	44	729.836											

Proposal 1373 - Observation 30 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Special Requirements

Group Observations 27, 28, 30, Non-interruptible

DEFAULT WINDOW: NOT OCCULTATION OF BG-GANYMEDE+20N BY JUPITER FROM JWST
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N IO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N EUROPA FROM JWST GREATER THAN 10"
DEFAULT WINDOW: SEPARATION OF BG-GANYMEDE+20N CALLISTO FROM JWST GREATER THAN 10"
DEFAULT WINDOW: ANGULAR RATE BG-GANYMEDE+20N FROM JWST LESS THAN 0.03

Proposal 1373 - Observation 23 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

Mon Aug 14 20:00:35 GMT 2023

Observation	<p>Proposal 1373, Observation 23: NIRISS PSF - AMI</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRISS Aperture Masking Interferometry</p> <p><i>Comments: PSF-cal target is for 2021B epoch... change target if epoch of observation changes.</i></p>									
Diagnostics	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(29)	PSFCAL.2022A-HD2236-K6	RA: 00 26 12.0759 (6.5503163d) Dec: +01 09 51.32 (1.16426d) Equinox: J2000			Proper Motion RA: -14.779 mas/yr Proper Motion Dec: -8.580 mas/yr Parallax: 0.0033333" Epoch of Position: 2015.5				
	<p><i>Comments: This object was found using the SearchCal tool (http://www.jmmc.fr/searchcal_page.htm) with PM/parallax values confirmed in Simbad (http://simbad.u-strasbg.fr/simbad)</i></p> <p><i>NIRISS AMI PSF calibrator 2022A</i></p> <p><i>K0III C / K=6.302</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Point spread function]</i></p>									
Acquisition	#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	AMIBRIGHT	F480M	NISRAPID	9	1	1	0.475	90872.8
Template	Subarray					Direct Image				
	SUB80					false				
Dithers	#	Primary Dithers				Subpixel Positions				
	1	4				NONE				
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F430M	NISRAPID	12	8	4	32	32.038	90872.9	

Proposal 1373 - Observation 23 - ERS observations of the Jovian System as a demonstration of JWST capabilities for Solar System s...

PSF References	PSF Reference: true
Special Requirements	No Parallel Attachments Group Observations 17, 23, Non-interruptible