18055 - Simultaneous mapping of ammonia on Jupiter with Juno and HST/WFC3

Cycle: 33, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

Name	*Institution*
Michael H. Wong (PI) (Contact)	**University of California - Berkeley**
Dr. John H Rogers (CoI) (ESA Member)	University of Cambridge
Prof. Patrick Irwin (CoI) (ESA Member)	University of Oxford
Dr. Amy Simon (CoI)	NASA Goddard Space Flight Center
Dr. Gordon Bjoraker (CoI)	NASA Goddard Space Flight Center
Prof. Victor Tejfel (CoI)	Fesenkov Astrophysical Institute
Prof. Imke de Pater (CoI)	University of California - Berkeley
Dr. Steven Hill (CoI)	Planetary Science Institute

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) JUPITER-77-PJ	WFC3/UVIS	1	26-Nov-2025 13:00:18.0	yes
02	(2) JUPITER-77-INGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:19.0	yes
03	(3) JUPITER-77-EGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:21.0	yes
04	(4) JUPITER-78-PJ	WFC3/UVIS	1	26-Nov-2025 13:00:21.0	yes
05	(5) JUPITER-78-INGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:22.0	yes
06	(6) JUPITER-78-EGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:23.0	yes
07	(7) JUPITER-79-PJ	WFC3/UVIS	1	26-Nov-2025 13:00:23.0	yes
08	(8) JUPITER-79-INGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:24.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
09	(9) JUPITER-79-EGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:25.0	yes
10	(10) JUPITER-88-PJ	WFC3/UVIS	1	26-Nov-2025 13:00:26.0	yes
11	(11) JUPITER-88-INGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:27.0	yes
12	(12) JUPITER-88-EGRESS	WFC3/UVIS	1	26-Nov-2025 13:00:28.0	yes

12 Total Orbits Used

ABSTRACT

Recent publications have demonstrated that imaging filter ratios at visible wavelengths can measure the spatial variation of ammonia gas on Jupiter. The approach is validated using both small-aperture filtered observations and spectroscopic observations. WFC3/UVIS includes the F645N filter which can enable the same analysis but at state of the art spatial resolution. The method also requires continuum and weak methane-band filters to resolve the degeneracy between ammonia concentration and aerosol screening.

Measuring the spatial variation of ammonia has science value in three broad areas:

1. It traces vertical flows, because ammonia is depleted at high altitude by condensation. High-resolution maps reveal the vertical flows associated with discrete storms and vortices, measure sharp meridional gradients that are blurred in ground-based observations, and detect both causes and effects of moist convection.
2. By independently mapping cloud opacity and ammonia concentration, we can test the hypothesis (seemingly contradicted in recent retrievals) that the upper cloud deck is composed of ammonia ice particles.
3. The bulk abundance of ammonia is a key astrochemical constraint on planet formation, but the strong spatial variation of ammonia is a significant source of error. The proposed data would provide an independent constraint from radio (VLA, Juno) retrievals that include a degeneracy with temperature.

We propose a long-term study that would overlap with Juno passes, providing additional value as context for thermal profiles from radio occultations.

OBSERVING DESCRIPTION

Within +/-2 days of each available Juno perijove (PJ), three orbits will be used to target the PJ longitude, the radio occultation ingress longitude, and the egress longitude. When Jupiter's disk is smaller than 40 arcsec, we use 1K subarrays, otherwise 2K subarrays.

Longitude constraints are enforced in the target specs. Timing constraints are enforces in the visit specs.

POS-TARG values are used to move the target closer to detector center to minimize slew distance, while still avoiding quad-filter edge effects.

If orbits do not schedule, we can try several things:
* add POS-TARGs to 2K subs in addition to QUAD-SUBs
* increase POS-TARG offsets, driving the edge of the disk into unusuable regions of quad filters
* dropping some exposures (remove patterns first, then drop filters in order of Phase 1 proposal priority)
* expand date range to +/-3 days (absolute maximum usuable time-offset)

Visit

Proposal 18055, PJ77 (01), completed Wed Nov 26 18:00:28 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 15-OCT-2025:16:46:17 AND 19-OCT-2025:16:46:17

Comments: 2025-10-17 16:46
Deq = 39.0 arcsec, so 1K subs

Diagnostics

(FQ889N-A (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (01.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (01.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (01.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (01.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (01.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (01.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (01.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (01.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (01.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (01.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (01.013)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (01.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ77 (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

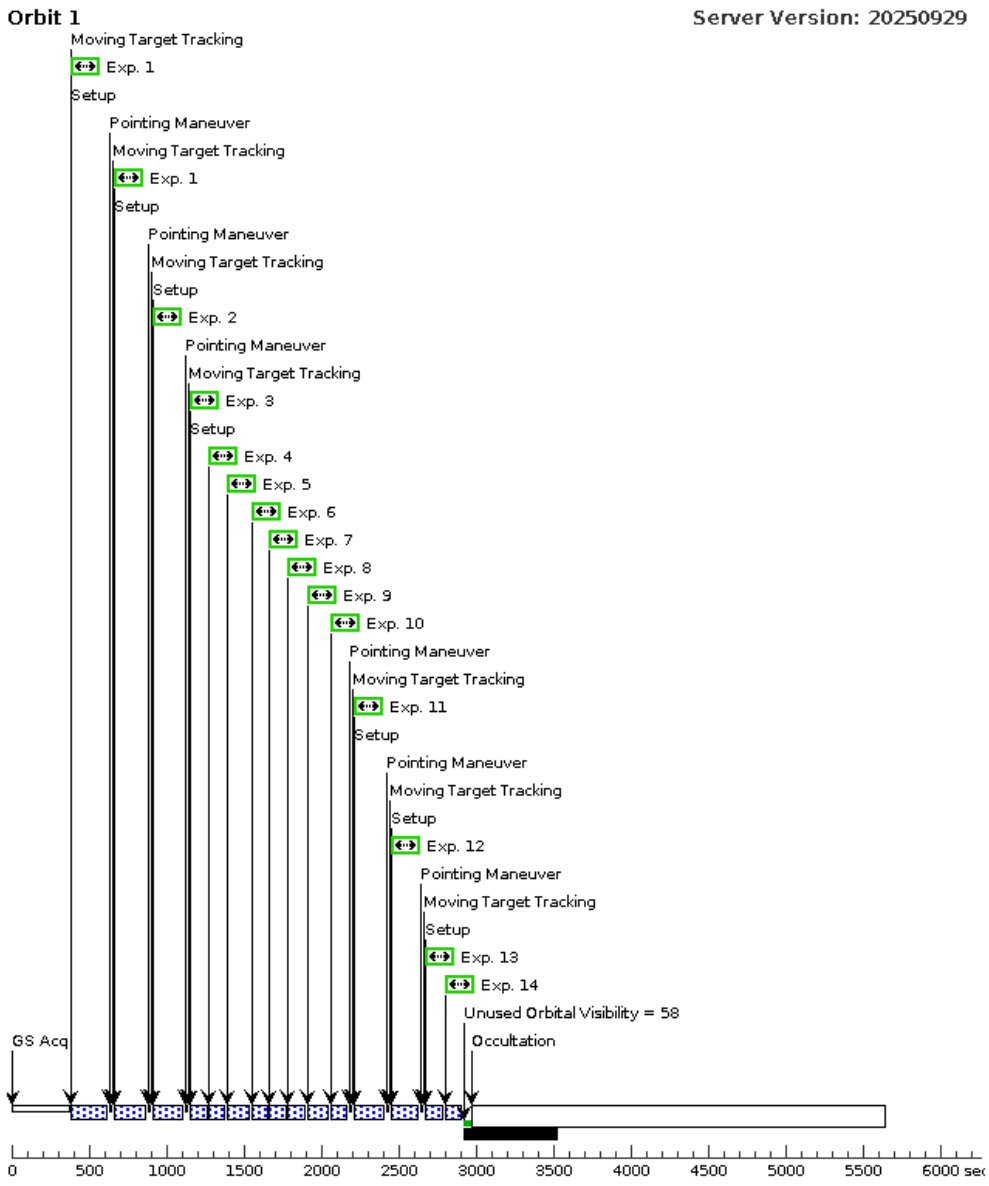
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-77-PJ	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-77-PJ BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-PJ BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-PJ BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-PJ BY CALLISTO FROM EARTH, SEP OF JUPITER-77-PJ IO FROM EARTH GT 0", SEP OF JUPITER-77-PJ EUROPA FROM EARTH GT 0", SEP OF JUPITER-77-PJ GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-77-PJ CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 56.2 146.2	EARTH

Comments: Target lon: 101.20
Description=Jupiter, centered on PJ77 longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +5.53,-6.70	Pattern 1, Exps 1-1 in PJ77 (01) (1)	30 Secs (60 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
3	F631N-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								
5	F275W-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
7	F395N-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
11	FQ727N-D	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -10.56,+11.47		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
13	F631N-1K	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(1) JUPITER-77-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ77-INGRESS (02), completed Wed Nov 26 18:00:28 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 15-OCT-2025:16:46:17 AND 19-OCT-2025:16:46:17

Comments: 2025-10-17 16:46
Deq = 39.0 arcsec, so 1K subs

Diagnostics

(FQ889N-A (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (02.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (02.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (02.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (02.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (02.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (02.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (02.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (02.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (02.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (02.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (02.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (02.013)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (02.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ77-INGRESS (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

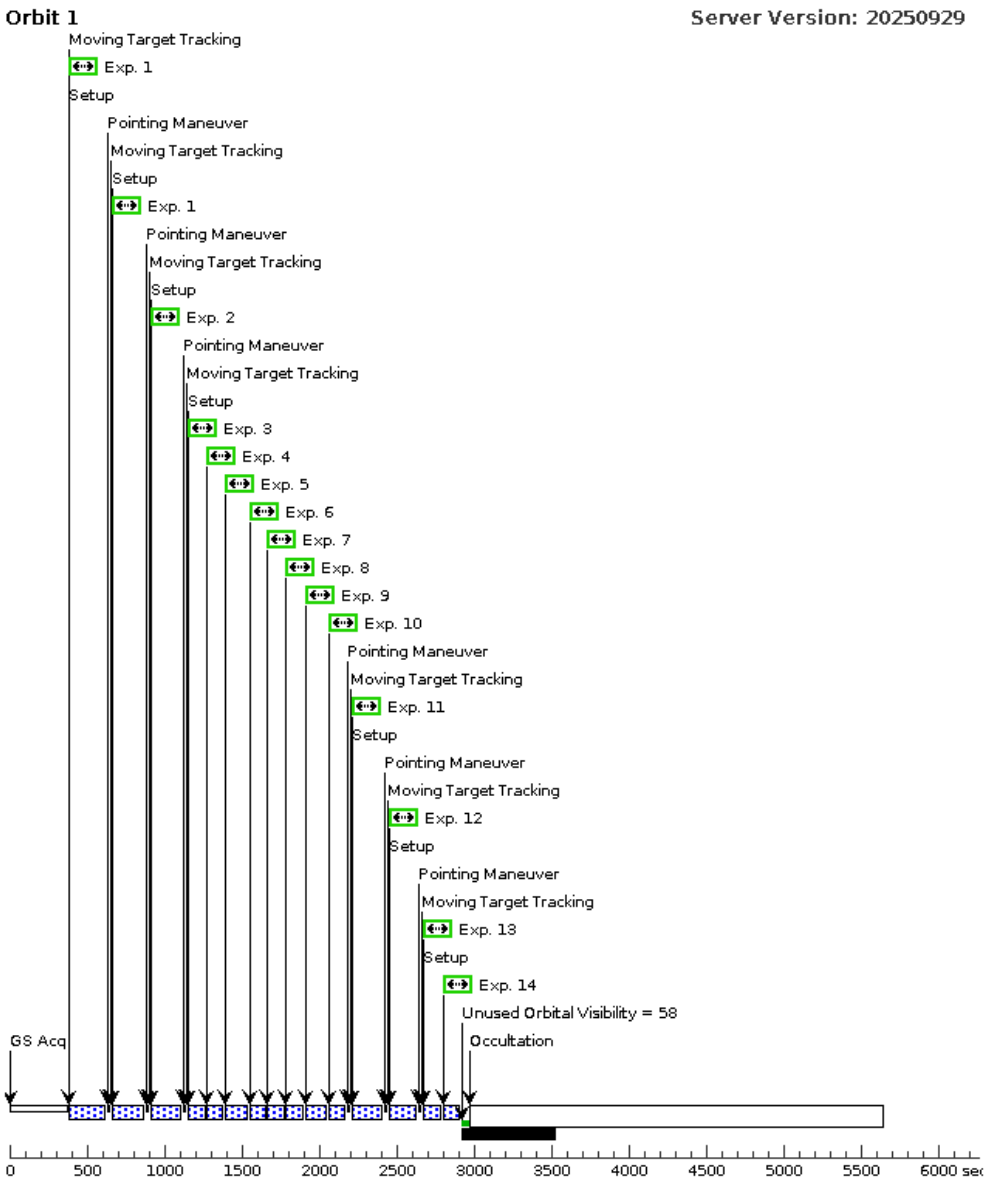
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-77-INGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-77-INGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-INGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-INGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-INGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-77-INGRESS IO FROM EARTH GT 0", SEP OF JUPITER-77-INGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-77-INGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-77-INGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN -3.4 86.6	EARTH

Comments: Target lon: 41.56
Description=Jupiter, centered on Juno radio occultation ingress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +5.53,-6.70	Pattern 1, Exps 1-1 in PJ77-INGRESS (02) (1)	30 Secs (60 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
3	F631N-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								
5	F275W-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
7	F395N-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
11	FQ727N-D	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -10.56,+11.47		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
13	F631N-1K	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(2) JUPITER-77-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ77-EGRESS (03), completed Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 15-OCT-2025:16:46:17 AND 19-OCT-2025:16:46:17

Comments: 2025-10-17 16:46
Deg = 39.0 arcsec, so 1K subs

Diagnostics

(FQ889N-A (03.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (03.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (03.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (03.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (03.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (03.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (03.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (03.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (03.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (03.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (03.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (03.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (03.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (03.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (03.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (03.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

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(F645N-1K (03.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ77-EGRESS (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

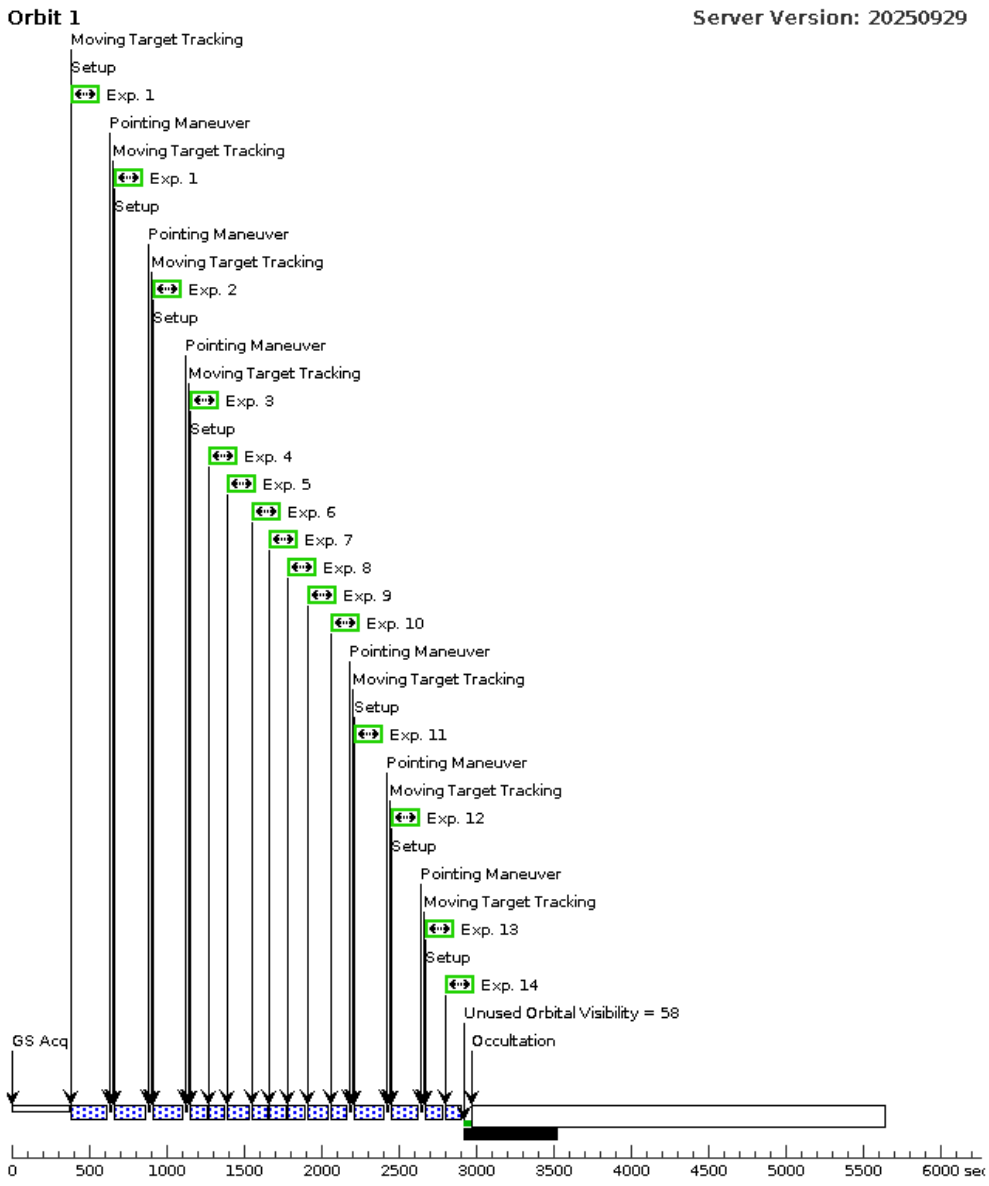
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(3)	JUPITER-77-EGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-77-EGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-EGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-EGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-77-EGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-77-EGRESS IO FROM EARTH GT 0", SEP OF JUPITER-77-EGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-77-EGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-77-EGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 205.0 295.0	EARTH

Comments: Target lon: 249.97
Description=Jupiter, centered on Juno radio occultation ingress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +5.53,-6.70	Pattern 1, Exps 1-1 in PJ77-EGRESS (03) (1)	30 Secs (60 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
3	F631N-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									
5	F275W-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
7	F395N-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
11	FQ727N-D	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -10.56,+11.47		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +5.53,-6.70		4 Secs (4 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
13	F631N-1K	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(3) JUPITER-77-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									

Orbit Structure



Visit

Proposal 18055, PJ78 (04), completed Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 20-NOV-2025:08:32:00 AND 20-NOV-2025:09:32:00

Comments: 2025-11-19 09:16
Deg = 43.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (04.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (04.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (04.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (04.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (04.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ78 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

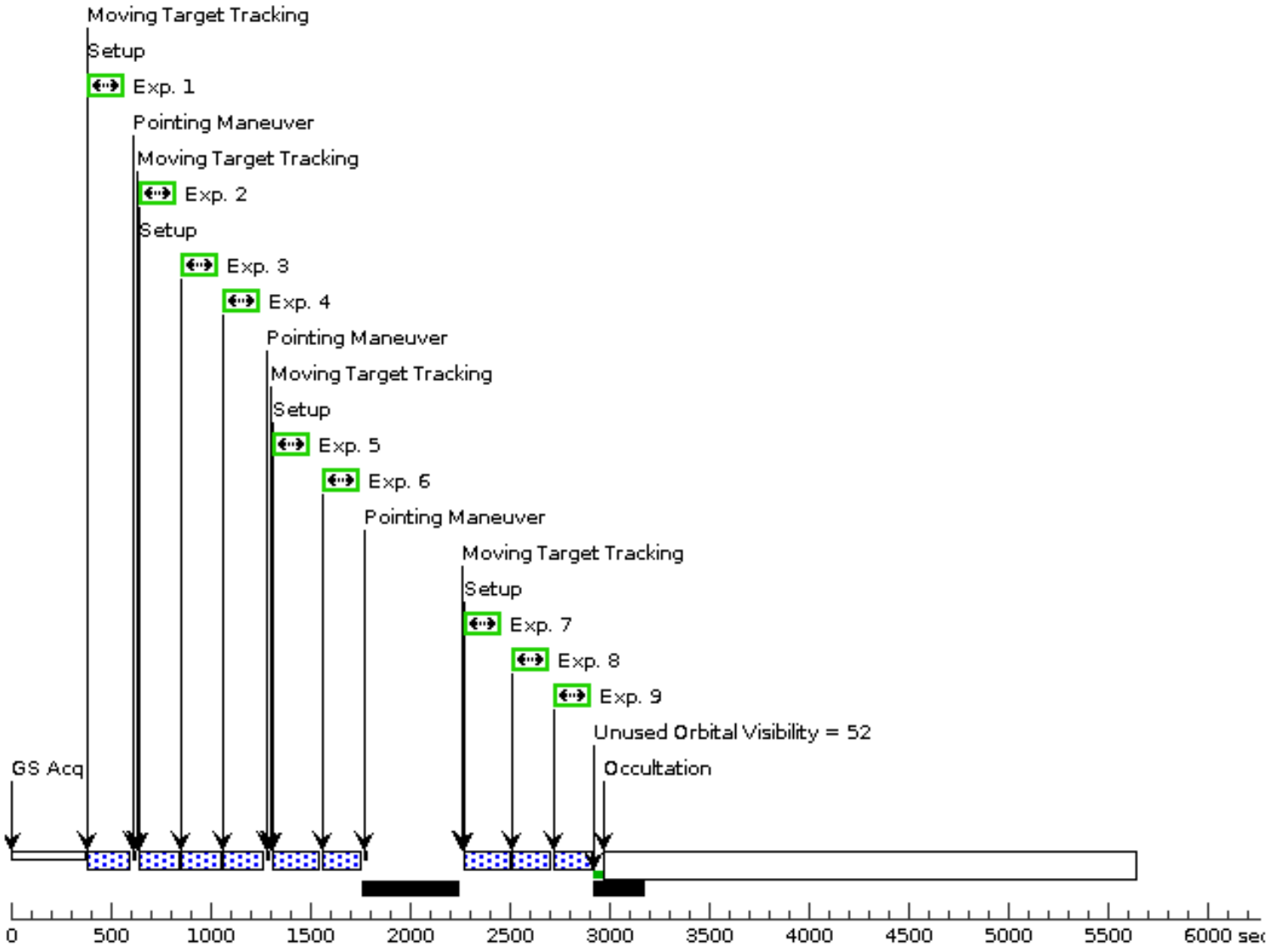
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(4)	JUPITER-78-PJ	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-78-PJ BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-PJ BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-PJ BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-PJ BY CALLISTO FROM EARTH, SEP OF JUPITER-78-PJ IO FROM EARTH GT 0", SEP OF JUPITER-78-PJ EUROPA FROM EARTH GT 0", SEP OF JUPITER-78-PJ GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-78-PJ CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 73.4 163.4	EARTH

Comments: Target lon: 118.45
Description=Jupiter, centered on PJ78 longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -8.70,+9.30		8 Secs (8 Secs) *[==>]*	***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
3	F395N-2K2A	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
4	F502N-2K2A	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
5	FQ889N-A	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +3.69,-4.55		45 Secs (45 Secs) *[==>]*	***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +3.69,-4.55		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
7	F275W-2K2A	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
8	F631N-2K2A	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(4) JUPITER-78-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ78-INGRESS (05), completed Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 20-NOV-2025:16:23:00 AND 20-NOV-2025:17:23:00

Comments: 2025-11-19 09:16
Deg = 43.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (05.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (05.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (05.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (05.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (05.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ78-INGRESS (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

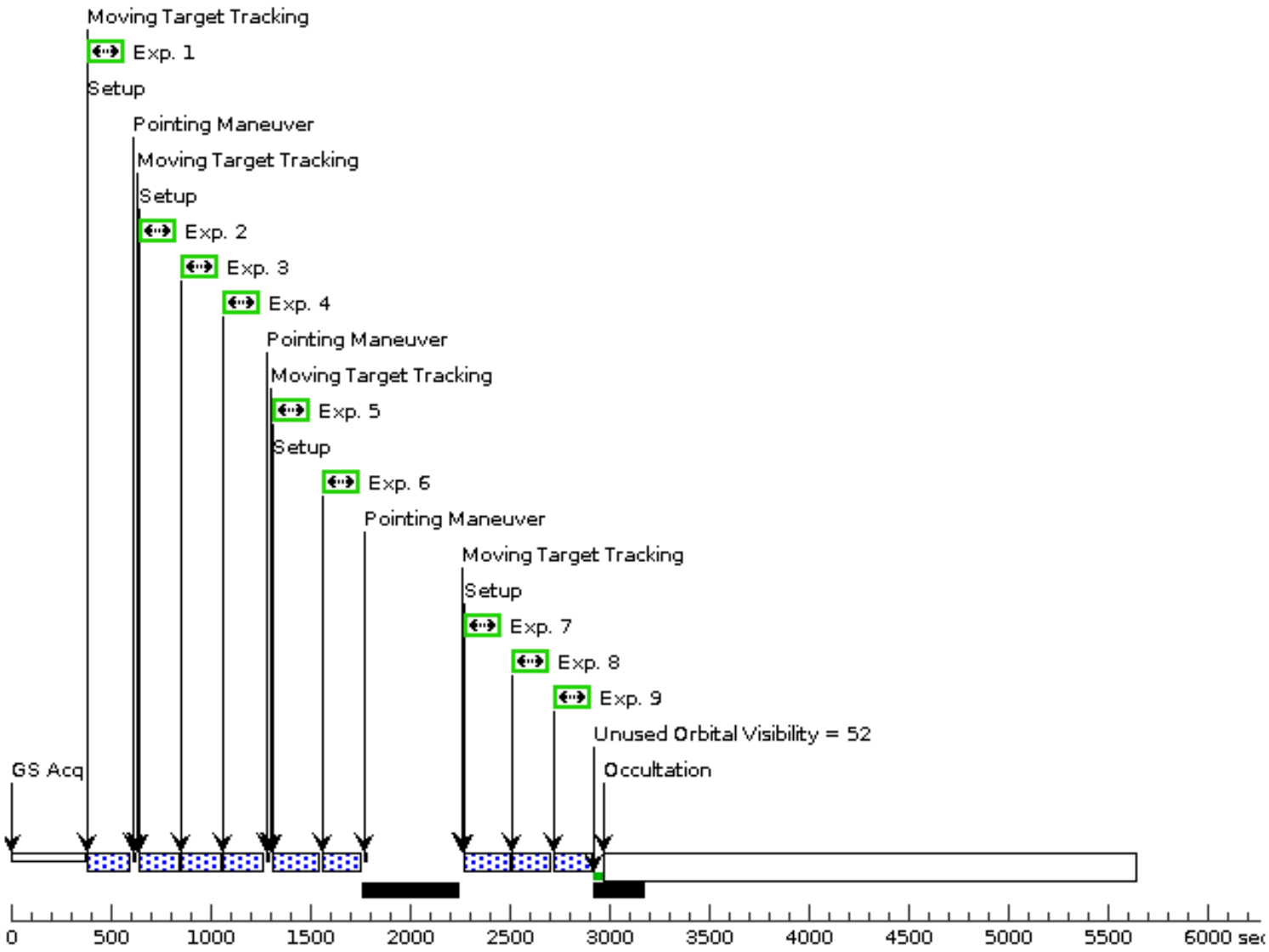
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(5)	JUPITER-78-INGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-78-INGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-INGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-INGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-INGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-78-INGRESS IO FROM EARTH GT 0", SEP OF JUPITER-78-INGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-78-INGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-78-INGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 14.1 104.1	EARTH

Comments: Target lon: 59.05
Description=Jupiter, centered on Juno radio occultation ingress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -8.70,+9.30		8 Secs (8 Secs) *[==>]*	 ***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
3	F395N-2K2A	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	 ***[1]***
4	F502N-2K2A	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
5	FQ889N-A	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +3.69,-4.55		45 Secs (45 Secs) *[==>]*	 ***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +3.69,-4.55		4 Secs (4 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
7	F275W-2K2A	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	 ***[1]***
8	F631N-2K2A	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	 ***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(5) JUPITER-78-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ78-EGRESS (06), completed Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 20-NOV-2025:13:15:00 AND 20-NOV-2025:14:15:00

Comments: 2025-11-19 09:16
Deg = 43.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (06.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (06.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (06.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (06.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (06.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (06.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (06.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (06.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (06.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (06.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ78-EGRESS (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

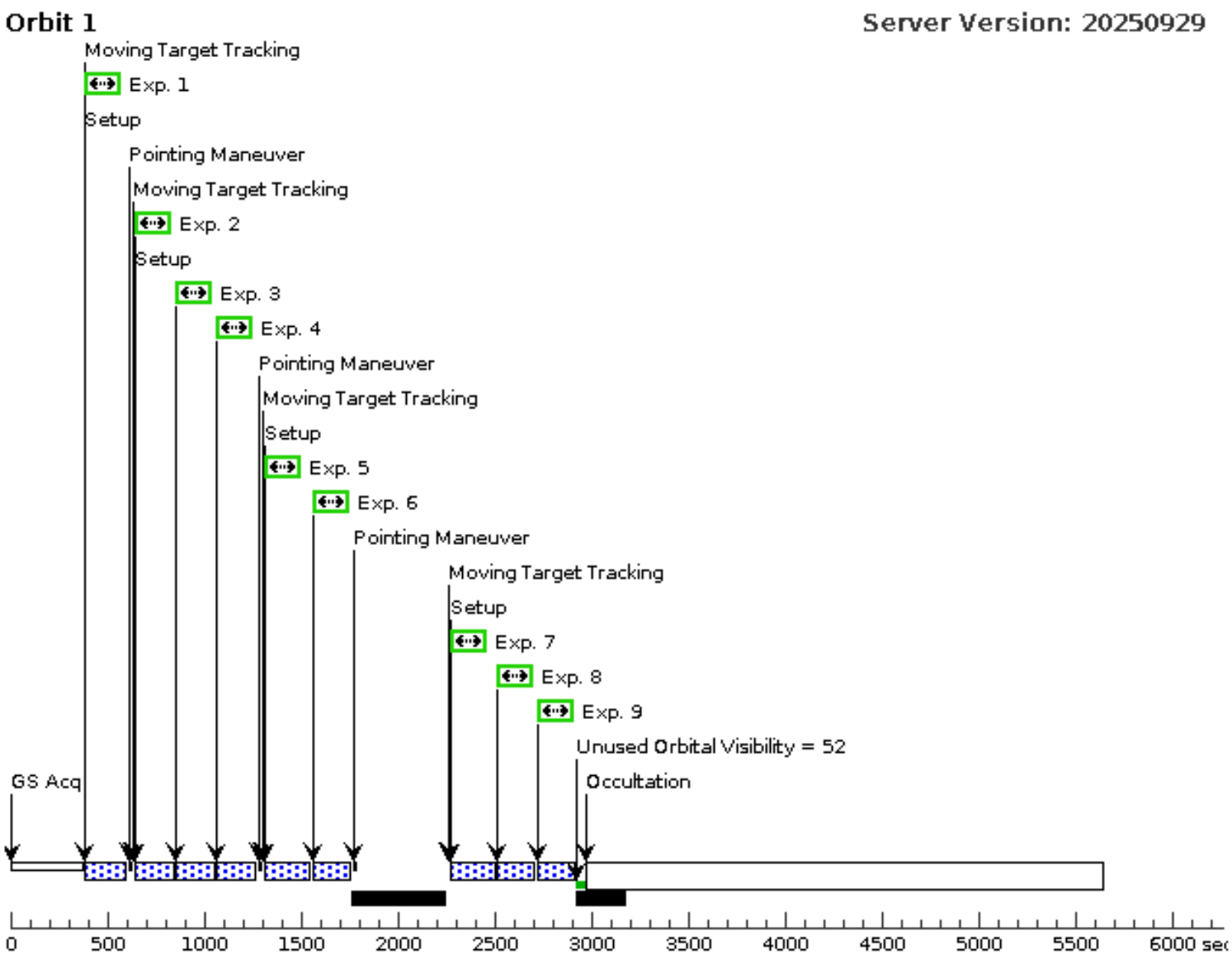
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(6)	JUPITER-78-EGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-78-EGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-EGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-EGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-78-EGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-78-EGRESS IO FROM EARTH GT 0", SEP OF JUPITER-78-EGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-78-EGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-78-EGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 222.0 312.0	EARTH

Comments: Target lon: 266.96
Description=Jupiter, centered on Juno radio occultation egress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -8.70,+9.30		8 Secs (8 Secs) *[==>]*	 ***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
3	F395N-2K2A	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	 ***[1]***
4	F502N-2K2A	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
5	FQ889N-A	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +3.69,-4.55		45 Secs (45 Secs) *[==>]*	 ***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +3.69,-4.55		4 Secs (4 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
7	F275W-2K2A	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	 ***[1]***
8	F631N-2K2A	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	 ***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(6) JUPITER-78-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ79 (07), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 2025.356:14:15:00 AND 2025.356:15:25:00

Comments: 2025-12-22 01:50
Deg = 46.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (07.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (07.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (07.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (07.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (07.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (07.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (07.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ79 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

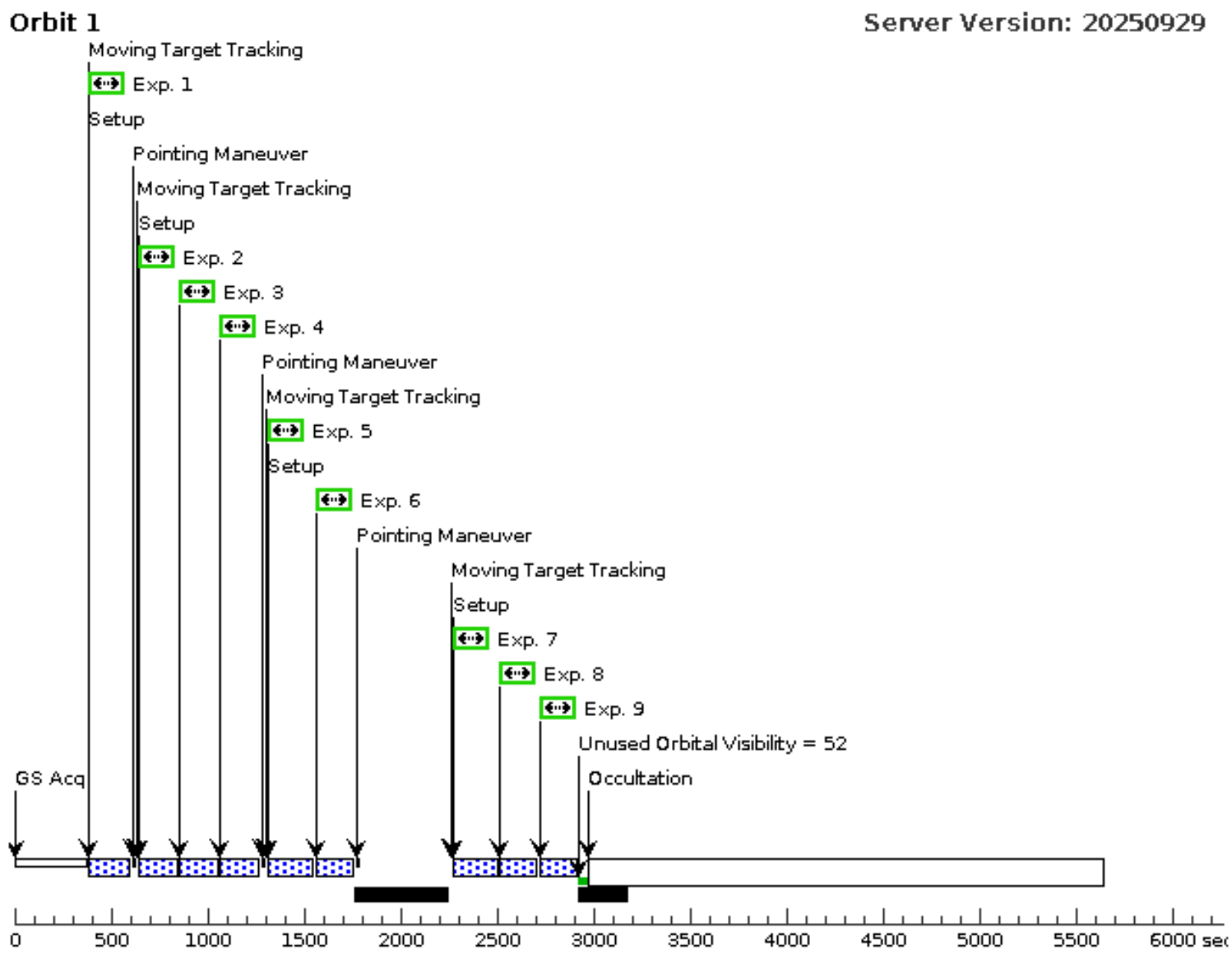
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(7)	JUPITER-79-PJ	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-79-PJ BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-PJ BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-PJ BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-PJ BY CALLISTO FROM EARTH, SEP OF JUPITER-79-PJ IO FROM EARTH GT 0", SEP OF JUPITER-79-PJ EUROPA FROM EARTH GT 0", SEP OF JUPITER-79-PJ GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-79-PJ CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 92.2 182.2	EARTH

Comments: Target lon: 137.20
Description=Jupiter, centered on PJ79 longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -7.34,+7.70		8 Secs (8 Secs) *[==>]*	***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
3	F395N-2K2A	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
4	F502N-2K2A	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
5	FQ889N-A	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +2.34,-2.97		45 Secs (45 Secs) *[==>]*	***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +2.34,-2.97		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
7	F275W-2K2A	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
8	F631N-2K2A	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(7) JUPITER-79-PJ	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ79-INGRESS (08), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 2025.355:17:50:00 AND 2025.355:18:52:00

Comments: 2025-12-22 01:50
Deg = 46.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (08.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (08.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (08.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (08.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ79-INGRESS (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

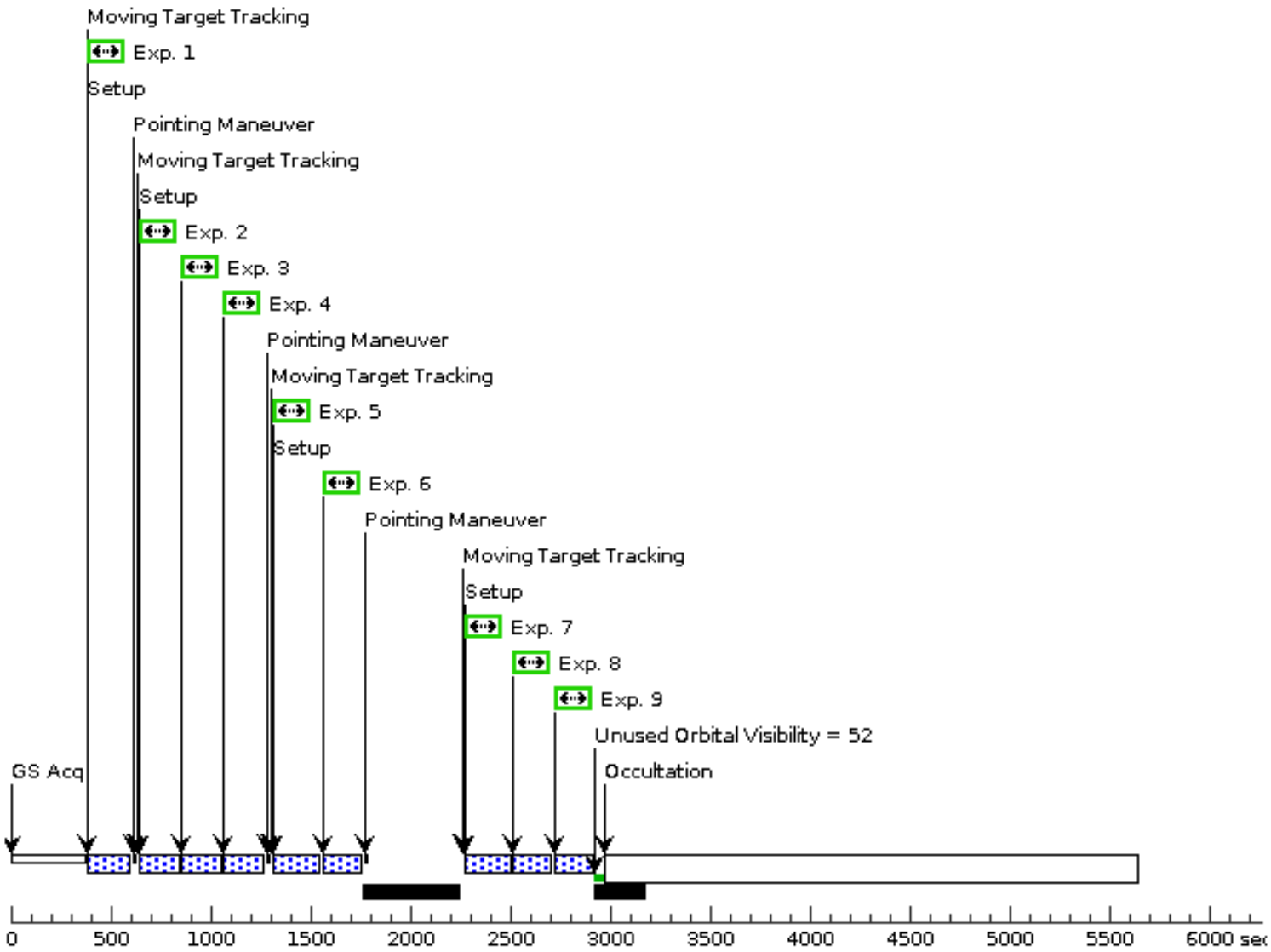
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(8)	JUPITER-79-INGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-79-INGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-INGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-INGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-INGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-79-INGRESS IO FROM EARTH GT 0", SEP OF JUPITER-79-INGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-79-INGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-79-INGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 34.6 124.6	EARTH

Comments: Target lon : 79.61
Description=Jupiter, centered on Juno radio occultation ingress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -7.34,+7.70		8 Secs (8 Secs) *[==>]*	 ***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
3	F395N-2K2A	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	 ***[1]***
4	F502N-2K2A	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
5	FQ889N-A	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +2.34,-2.97		45 Secs (45 Secs) *[==>]*	 ***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +2.34,-2.97		4 Secs (4 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
7	F275W-2K2A	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	 ***[1]***
8	F631N-2K2A	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	 ***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(8) JUPITER-79-INGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									

Orbit Structure



Visit

Proposal 18055, PJ79-EGRESS (09), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 2025.357:15:20:00 AND 2025.357:16:25:00

Comments: 2025-12-22 01:50
Deg = 46.1 arcsec, so 2K subs

Diagnostics

(FQ727N-D (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (09.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F673N-2K2A (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-2K2A (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-2K2A (09.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (09.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (09.005)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (09.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (09.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F275W-2K2A (09.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F631N-2K2A (09.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-2K2A (09.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ79-EGRESS (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

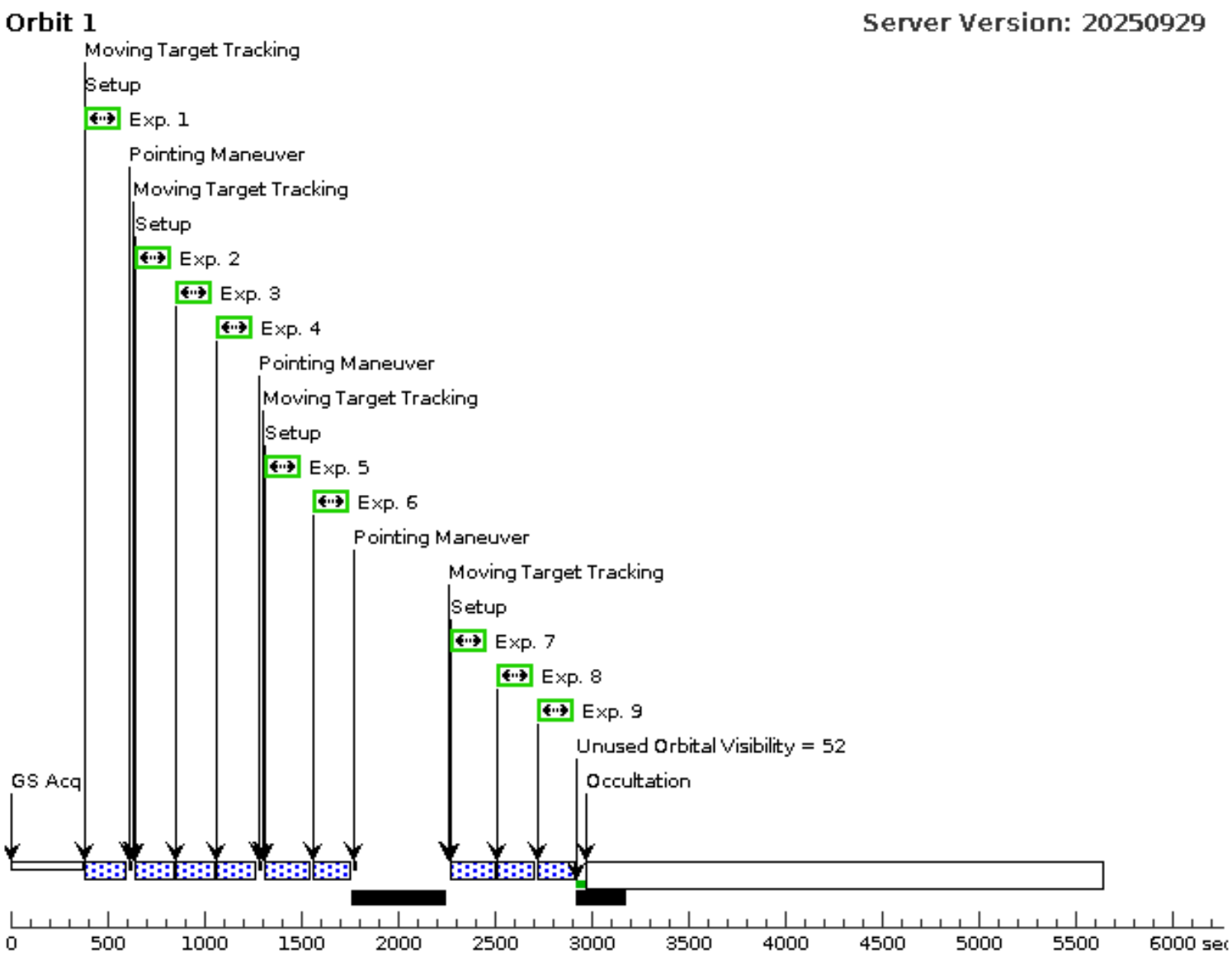
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(9)	JUPITER-79-EGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-79-EGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-EGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-EGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-79-EGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-79-EGRESS IO FROM EARTH GT 0", SEP OF JUPITER-79-EGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-79-EGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-79-EGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 248.0 338.0	EARTH

Comments: Target lon: 292.95
Description=Jupiter, centered on Juno radio occultation egress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ727N-D	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -7.34,+7.70		8 Secs (8 Secs) *[==>]*	 ***[1]***
2	F673N-2K2A (WFC3UVIS.im.2021623)	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
3	F395N-2K2A	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F395N				10 Secs (10 Secs) *[==>]*	 ***[1]***
4	F502N-2K2A	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
5	FQ889N-A	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +2.34,-2.97		45 Secs (45 Secs) *[==>]*	 ***[1]***
6	FQ619N-A (WFC3UVIS.im.2021627)	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +2.34,-2.97		4 Secs (4 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
7	F275W-2K2A	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				30 Secs (30 Secs) *[==>]*	 ***[1]***
8	F631N-2K2A	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	 ***[1]***
9	F645N-2K2A (WFC3UVIS.im.2021625)	(9) JUPITER-79-EGRESS	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	 ***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									

Orbit Structure



Visit

Proposal 18055, PJ88 (10), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 09-OCT-2026:22:14:00 AND 13-OCT-2026:22:14:00

Comments: 2026-10-11 22:14
Deg = 30.9 arcsec, so 1K subs

Diagnostics

(FQ889N-A (10.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (10.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (10.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (10.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (10.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (10.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (10.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (10.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (10.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (10.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (10.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (10.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (10.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (10.013)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (10.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ88 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

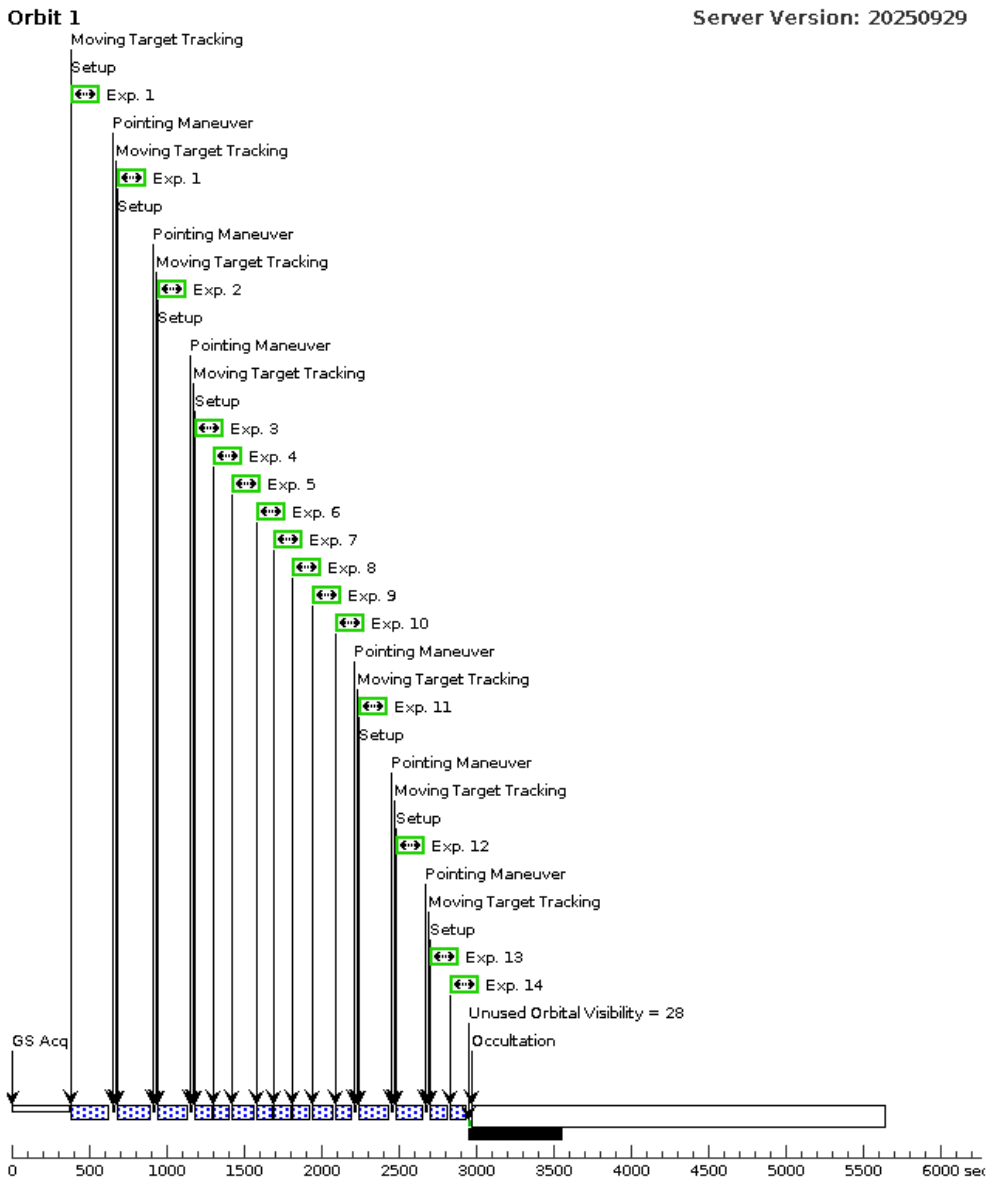
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(10)	JUPITER-88-PJ	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-88-PJ BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-PJ BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-PJ BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-PJ BY CALLISTO FROM EARTH, SEP OF JUPITER-88-PJ IO FROM EARTH GT 0", SEP OF JUPITER-88-PJ EUROPA FROM EARTH GT 0", SEP OF JUPITER-88-PJ GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-88-PJ CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 280.5 370.5	EARTH

Comments: Target lon: 325.49
Description=Jupiter, centered on PJ88 longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +9.19,-10.98	Pattern 1, Exps 1-1 in PJ88 (10) (1)	45 Secs (90 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
3	F631N-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								
5	F275W-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
7	F395N-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
11	FQ727N-D	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -14.24,+15.79		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
13	F631N-1K	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(10) JUPITER-88-PJ	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ88-INGRESS (11), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 09-OCT-2026:22:14:00 AND 13-OCT-2026:22:14:00

Comments: 2026-10-11 22:14
Deg = 30.9 arcsec, so 1K subs

Diagnostics

(FQ889N-A (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (11.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (11.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (11.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (11.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (11.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (11.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (11.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (11.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (11.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (11.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (11.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (11.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (11.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (11.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (11.013)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (11.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ88-INGRESS (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

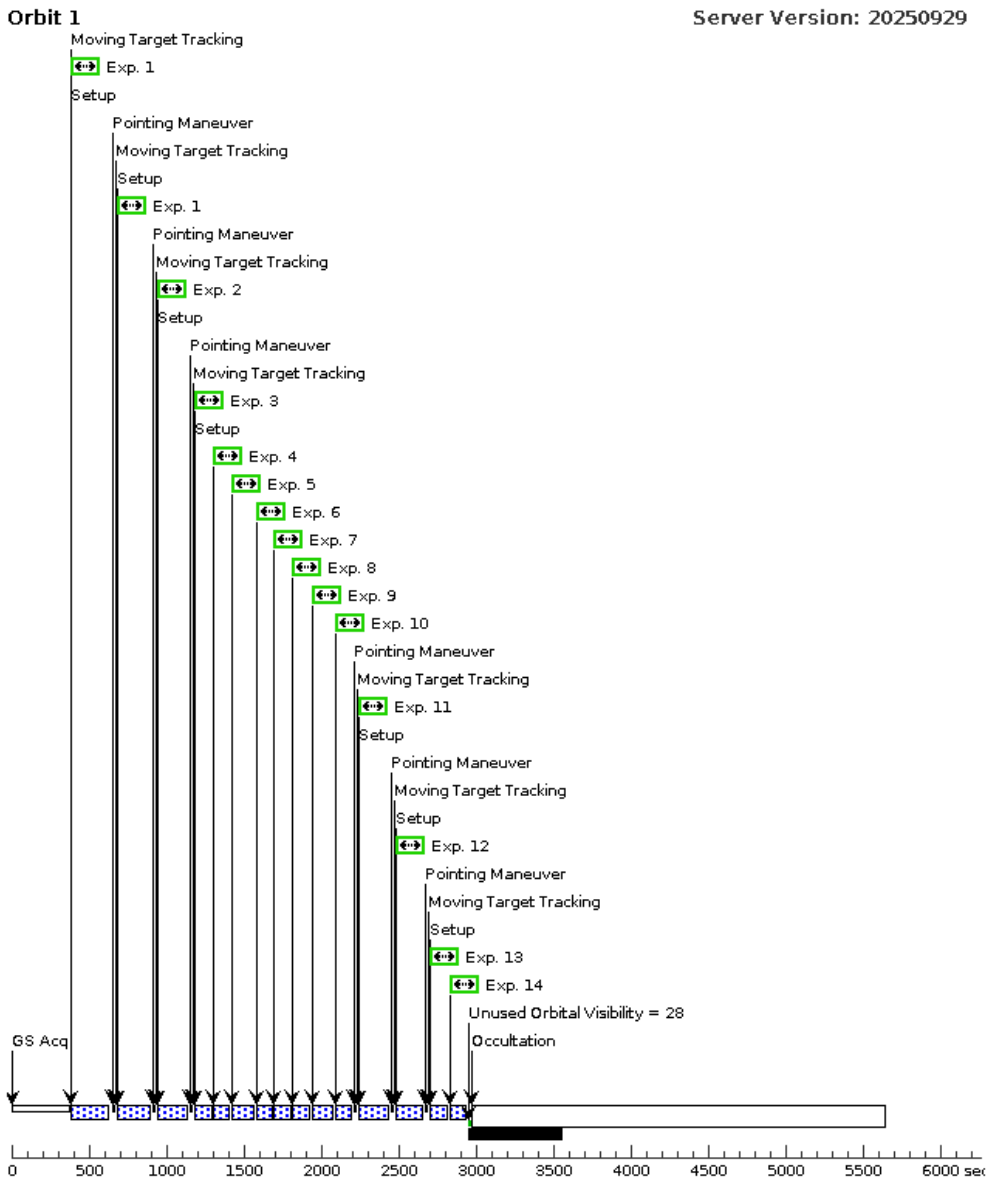
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(11)	JUPITER-88-INGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-88-INGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-INGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-INGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-INGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-88-INGRESS IO FROM EARTH GT 0", SEP OF JUPITER-88-INGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-88-INGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-88-INGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 17.8 107.8	EARTH

Comments: Target lon: 62.80
Description=Jupiter, centered on Juno radio occultation ingress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +9.19,-10.98	Pattern 1, Exps 1-1 in PJ88-INGRESS (11) (1)	45 Secs (90 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
3	F631N-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								
5	F275W-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
7	F395N-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021623								
11	FQ727N-D	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -14.24,+15.79		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021627								
13	F631N-1K	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(11) JUPITER-88-INGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
	Comments: New filter, ETC WFC3UVIS.im.2021625								

Orbit Structure



Visit

Proposal 18055, PJ88-EGRESS (12), implementation Wed Nov 26 18:00:29 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 09-OCT-2026:22:14:00 AND 13-OCT-2026:22:14:00

Comments: 2026-10-11 22:14
Deg = 30.9 arcsec, so 1K subs

Diagnostics

(FQ889N-A (12.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ889N-A (12.001)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (12.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (12.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (12.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (12.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (12.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (12.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F395N-1K (12.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F502N-1K (12.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F275W-1K (12.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F673N-1K (12.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (12.011)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ727N-D (12.011)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(FQ619N-A (12.012)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(FQ619N-A (12.012)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.

(F631N-1K (12.013)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F645N-1K (12.014)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(PJ88-EGRESS (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(12)	JUPITER-88-EGRESS	STD=JUPITER			NOT ECL P PARTIAL OF JUPITER-88-EGRESS BY IO FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-EGRESS BY EUROPA FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-EGRESS BY GANYMEDE FROM EARTH, NOT ECL P PARTIAL OF JUPITER-88-EGRESS BY CALLISTO FROM EARTH, SEP OF JUPITER-88-EGRESS IO FROM EARTH GT 0", SEP OF JUPITER-88-EGRESS EUROPA FROM EARTH GT 0", SEP OF JUPITER-88-EGRESS GANYMEDE FROM EARTH GT 0", SEP OF JUPITER-88-EGRESS CALLISTO FROM EARTH GT 0", CML OF JUPITER FROM EARTH BETWEEN 44.5 134.5	EARTH

Comments: Target lon: 89.50
Description=Jupiter, centered on Juno radio occultation egress longitude
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FQ889N-A	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N		POS TARG +9.19,-10.98	Pattern 1, Exps 1-1 in PJ88-EGRESS (12) (1)	45 Secs (90 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2	FQ619N-A (WFC3UVIS.im.2021627)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
3	F631N-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
4	F645N-1K (WFC3UVIS.im.2021625)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									
5	F275W-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
6	F673N-1K (WFC3UVIS.im.2021623)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
7	F395N-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F395N				10 Secs (10 Secs) *[==>]*	***[1]***
8	F502N-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F502N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
9	F275W-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				30 Secs (30 Secs) *[==>]*	***[1]***
10	F673N-1K (WFC3UVIS.im.2021623)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F673N	BLADE=A			2 Secs (2 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021623									
11	FQ727N-D	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N		POS TARG -14.24,+15.79		8 Secs (8 Secs) *[==>]*	***[1]***
12	FQ619N-A (WFC3UVIS.im.2021627)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	BLADE=A	POS TARG +9.19,-10.98		4 Secs (4 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021627									
13	F631N-1K	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	BLADE=A			4 Secs (4 Secs) *[==>]*	***[1]***
14	F645N-1K (WFC3UVIS.im.2021625)	(12) JUPITER-88-EGRESS	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F645N	BLADE=A			3 Secs (3 Secs) *[==>]*	***[1]***
Comments: New filter, ETC WFC3UVIS.im.2021625									

Orbit Structure