



7700 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Cycle: 4, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. David E. Trilling (PI)	Northern Arizona University
Dr. Gary Bernstein (CoI) (Contact)	University of Pennsylvania
Dr. John A. Stansberry (CoI) (Contact)	Space Telescope Science Institute
Dr. Matthew Holman (CoI)	Smithsonian Institution Astrophysical Observatory
Mr. Bryan Hilbert (CoI)	Space Telescope Science Institute
Kevin Napier (CoI)	University of Michigan
Dr. Wesley C Fraser (CoI) (CSA Member) (CoPI) (Contact)	Dominion Astrophysical Observatory
Ms. Marielle Eduardo (CoI) (CSA Member)	University of Victoria
Dr. Kelsi Singer (CoI)	Southwest Research Institute
Ivy Knudsen (CoI)	Southwest Research Institute

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Laser-beam with Eng. Imaging and DHS5 readout				
	1	Tiles 1 & 2 Epoch 1	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	2	Tiles 3 & 4 Epoch 1	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	3	Tiles 1 & 2 Epoch 2	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	4	Tiles 3 & 4 Epoch 2	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	5	Tiles 1 & 2 Epoch 3	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	6	Tiles 3 & 4 Epoch 2	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	7	Tiles 1 & 2 Epoch 4	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	8	Tiles 3 & 4 Epoch 4	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	9	Tiles 1 & 2 Epoch 5	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	10	Tiles 3 & 4 Epoch 5	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	11	Tiles 1 & 2 Epoch 6	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4
	12	Tiles 3 & 4 Epoch 6	NIRCam Engineering Imaging	(14) JPB_16+24_FinalPointing_SE4

ABSTRACT

We propose to execute a supremely deep imaging program of a single NIRCam field to measure the size distribution of extremely small cold classical trans-Neptunian objects — with sizes as small as 1 km — as a deep and detailed probe of the process of planetary system formation. This experiment connects evidence from New Horizons spacecraft data for Pluto, Charon, and Arrokoth with outstanding questions from theoretical models, and can only be carried out with the unmatched sensitivity of JWST. This information on planetesimal sizes will not be obtainable in any exoplanet system within our lifetimes. Our results can be used as input for planetary system formation models, and will provide significant "ground-truth" comparisons for observations of protoplanetary disks made by many observatories.

OBSERVING DESCRIPTION

This experiment will be carried out with an ultra-deep, 88.3 hour stare (open shutter time) at a single NIRCam pointing.

We built 24 identical observations, each of which includes 4 exposures that together total just under 20 ksec (5.6 hours) of clock time; we use a timing requirement to ensure that all of our observations are carried out within a ten day window. Thus, our objects will have orbital arcs of 5–10 days. The total requested clock time is 135.1 hours.

Of course, we will work with STScI technical staff to perfect this plan in our Phase II preparation.

Proposal 7700 - Targets - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	nominal_pointing	RA: 13 57 34.0000 (209.3916667d) Dec: -10 51 56.00 (-10.86556d) Equinox: J2000		
<p><i>Comments: Pointing aoriginally submitted w/ Cycle-4 prop. Will not use.</i> Category=Unidentified Description=[Blank field]</p>				
(5)	v6_00153+v6_00633	RA: 13 59 25.5168 (209.8563200d) Dec: -11 01 25.25 (-11.02368d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: Coordinates are the average of program 1568 (Pencil Beam) objects v6_00153 and v6_00633 on 2025-07-15.</i> To capture Pencil objects v6_00153 and v6_00663 on Mod-B use an offset SR of: +74, -117 for Tiles 1 & 2 +74, +143 for Tiles 3 & 4 Category=Unidentified Description=[Blank field]</p>				
(11)	JPB_16+24_SemiFinalPointing	RA: 14 03 45.6000 (210.9400000d) Dec: -11 33 0.00 (-11.55000d) Equinox: J2000	Epoch of Position: 2026.7	
<p><i>Comments: From Gary Bernstein 2026-04-30:</i> The array center that gets both JPB 24 and 16 is ra = 210.94, dec = -11.55 Category=Unidentified Description=[Blank field]</p>				
(12)	JPB24	RA: 14 03 34.5077 (210.8937821d) Dec: -11 31 8.78 (-11.51911d) Equinox: J2000		
<p><i>Comments: Postion on July 18 (turn-around) of JPB24 from Gary B email 2026-04-30 as amended c. 05-14.</i> 210.893782, -11.519106 Category=Unidentified Description=[Blank field]</p>				
(13)	JPB16	RA: 14 03 50.1823 (210.9590929d) Dec: -11 35 42.58 (-11.59516d) Equinox: J2000		
<p><i>Comments: Postion on July 18 (turn-around) of JP164 from Gary B email 2026-04-30 as amended c. 05-14.</i> 210.959093, -11.595162 Category=Unidentified Description=[Blank field]</p>				
(14)	JPB_16+24_FinalPointing_SE	RA: 14 03 45.6000 (210.9400000d) Dec: -11 33 10.80 (-11.55300d) Equinox: J2000		
<p><i>Comments: From Gary Bernstein 2026-04-30:</i> The array center that gets both JPB 24 and 16 is ra = 210.94, dec = -11.55 After messing around overlaying tracks for JPB16 & 24, decided on a small tweak to: ra = 120.94 dec = -11.553 (14 03 45.6, -11 33 10.8) Module footprints for this pointing is represented in IndividualMod_MockUp_SE4.reg Category=Unidentified Description=[Blank field]</p>				

Fixed Targets

Proposal 7700 - Targets - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Solar System Targets	#	Name	Level 1	Level 2	Level 3	
	(6)	2015_GO57_MT	TYPE=ASTEROID,A=43.43800112956912,E=0.0312 7617627711624,I=1.094092628661001 ,O=145.8044977765366,W=224.4005097057862,M=1 97.6951287839796,EQUINOX=J2000,EPOCH=26- JAN-2016:00:00:00,EpochTimeScale=TDB			
	<i>Comments: Extended=Unknown</i>					
	(8)	2022_FN12_MT	TYPE=ASTEROID,A=42.65930351654075,E=0.0274 3496349810186,I=1.267842843635135 ,O=129.5448052685979,W=178.2204014482803,M=2 54.4163731537888,EQUINOX=J2000,EPOCH=02- NOV-2019:00:00:00,EpochTimeScale=TDB			
<i>Comments: Extended=Unknown</i>						
(10)	2015_GK56	TYPE=ASTEROID,A=44.77063088094408,E=0.1030 179955303871,I=2.067374776522286 ,O=181.1658567375593,W=146.2685208745688,M=2 44.7810848809608,EQUINOX=J2000,EPOCH=17- NOV-2015:00:00:00,EpochTimeScale=TDB				
<i>Comments: Extended=Unknown</i>						

Proposal 7700 - Observation 1 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	Proposal 7700, Observation 1: Tiles 1 & 2 Epoch 1 Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging																																		
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Proposal 7700 - Observation 1 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Aperture PA Range 104.92542306 to 114.92542306 Degrees (V3 105.0 to 115.0)
Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 2 within 1.25 Days
Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 2 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

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Proposal 7700 - Observation 2 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 1, 2 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 3 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

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Proposal 7700 - Observation 3 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Sequence Observations 3, 4 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 4 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	Proposal 7700, Observation 4: Tiles 3 & 4 Epoch 2 Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging																																		
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Proposal 7700 - Observation 4 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 3, 4 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 5 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

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Proposal 7700 - Observation 5 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Sequence Observations 5, 6 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 6 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

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Proposal 7700 - Observation 6 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Between Dates 17-JUL-2026:00:00:00 and 19-JUL-2026:12:00:00
Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 5, 6 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 7 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

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Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Sequence Observations 7, 8 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 8 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

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Proposal 7700 - Observation 8 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 7, 8 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 9 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	Proposal 7700, Observation 9: Tiles 1 & 2 Epoch 5 Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging																																		
	(Tiles 1 & 2 Epoch 5 (Obs 9)) Warning (Form): The DHS readout patterns are intended for use with the DHS subarrays (Visit 9:1) Warning (Form): Data Excess over lower threshold (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 9:2) Warning (Form): Data Excess over lower threshold (Visit 9:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Tiles 1 & 2 Epoch 5 (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																		
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Proposal 7700 - Observation 9 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Sequence Observations 9, 10 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 10 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	Proposal 7700, Observation 10: Tiles 3 & 4 Epoch 5 Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging																																		
	(Tiles 3 & 4 Epoch 5 (Obs 10)) Warning (Form): The DHS readout patterns are intended for use with the DHS subarrays (Visit 10:1) Warning (Form): Data Excess over lower threshold (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 10:2) Warning (Form): Data Excess over lower threshold (Visit 10:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Tiles 3 & 4 Epoch 5 (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																		
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Proposal 7700 - Observation 10 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 9, 10 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 11 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	Proposal 7700, Observation 11: Tiles 1 & 2 Epoch 6 Diagnostic Status: Warning Observing Template: NIRCcam Engineering Imaging																																		
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Proposal 7700 - Observation 11 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, -132.0 arcsec

Sequence Observations 1, 3, 5, 7, 9, 11 within 10 Days
Sequence Observations 11, 12 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Proposal 7700 - Observation 12 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Thu May 21 13:00:13 GMT 2026

Observation	<p>Proposal 7700, Observation 12: Tiles 3 & 4 Epoch 6</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Engineering Imaging</p>											
Diagnostics	<p>(Tiles 3 & 4 Epoch 6 (Obs 12)) Warning (Form): The DHS readout patterns are intended for use with the DHS subarrays</p> <p>(Visit 12:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 12:2) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 12:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Tiles 3 & 4 Epoch 6 (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>											
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Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions			
	1	NONE				STANDARD			4			
Spectral Elements	#	Short Pupil	Long Pupil	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	CLEAR	CLEAR	F150W2	F322W2	DHS5	5	4	16	4	3736.396	

Proposal 7700 - Observation 12 - The supremely deep trans-Neptunian object survey: A critical test of planet formation models

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
Offset 0.0 arcsec, 128.0 arcsec

Sequence Observations 11, 12 within 1.25 Days
Same Aperture PA 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12