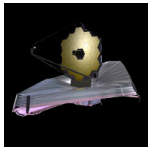

1244 - Large Asteroids and Trojan Asteroids

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Andrew S. Rivkin (PI)	**The Johns Hopkins University Applied Physics Laboratory**	**andy.rivkin@jhuapl.edu**
Dr. Cristina A. Thomas (CoI)	Northern Arizona University	cristina.thomas@nau.edu
Dr. Stefanie N. Milam (CoI) (US Admin CoI)	NASA Goddard Space Flight Center	stefanie.n.milam@nasa.gov

OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
Large Asteroids				
	1	Ceres/NIRSpec	NIRSpec IFU Spectroscopy	(1) 1-CERES
	5	Pallas/NIRSpec	NIRSpec IFU Spectroscopy	(2) 2-PALLAS
	6	Hygiea/NIRSpec	NIRSpec IFU Spectroscopy	(3) 10-HYGIEA
	22	Ceres/MIRI	MIRI Medium Resolution Spectroscopy	(1) 1-CERES
	12	Ceres/MIRI Background	MIRI Medium Resolution Spectroscopy	(8) 1-CERES-BACKGROUND
	23	Pallas/MIRI	MIRI Medium Resolution Spectroscopy	(2) 2-PALLAS
	13	Pallas/MIRI Background	MIRI Medium Resolution Spectroscopy	(9) 2-PALLAS-BACKGROUND
	24	Hygiea/MIRI	MIRI Medium Resolution Spectroscopy	(3) 10-HYGIEA
	14	Hygiea/MIRI Background	MIRI Medium Resolution Spectroscopy	(10) 10-HYGIEA-BACKGROUND
Trojan Asteroids				
	8	Patroclus/NIRSpec	NIRSpec IFU Spectroscopy	(4) 617-PATROCLUS
	10	Hektor/NIRSpec	NIRSpec IFU Spectroscopy	(6) HEKTOR

ABSTRACT

Large Asteroids: Recent work has shown that asteroids over 200 km in diameter are intact remnants of earliest Solar System history, and that these objects had dynamic histories with ongoing processes. Our JWST observations of the three largest low-albedo asteroids will extend measurements of Ceres far beyond the wavelengths measureable by Dawn, and provide unique measurements of Pallas and Hygiea that are unavailable from other platforms.

Trojan Asteroids: The Trojan asteroids are key to understanding early solar system dynamics and planetary migration. They are thought to be organic-rich, but their distances and low albedos make observations difficult. We target targeted binary asteroids to take advantage of knowledge of their densities, which we will combine with the compositional data gained from spectroscopy. One of the targets is a planned destination for NASA's Lucy mission in 2033.

This proposal includes Observation IDs HAMMEL_0001-0005, 0009-0014, and 0025-0027/

OBSERVING DESCRIPTION

Large Asteroids: IFU NIRSpec Spectroscopy with the G235H/F170LP and G395H/F290LP grating settings, and MIRI Medium Resolution Spectroscopy.

Trojan Asteroids: NIRSpec IFU Spectroscopy with the PRISM grating.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(1)	1-CERES	STD=CERES		
Comments: Extended=YES				
(2)	2-PALLAS	TYPE=ASTEROID,A=2.771119636471678,E=0.2338097526855965,I=34.80773731863506,O=173.2983228558771,W=309.697859274967,M=19.71349913672485,EQUINOX=J2000,EPOCH=20-SEP-1995:00:00:00,EpochTimeScale=TDB		
Comments: Extended=YES				
(3)	10-HYGIEA	TYPE=ASTEROID,A=3.138404355283353,E=0.1194477019442747,I=3.84281259581846,O=283.6588232129192,W=314.3457745355738,M=356.3422142127598,EQUINOX=J2000,EPOCH=07-APR-2000:00:00:00,EpochTimeScale=TDB		
Comments: Extended=YES				
(4)	617-PATROCLUS	TYPE=ASTEROID,A=5.212775041416492,E=0.1394751648774633,I=22.05719641611838,O=44.3495507311498,W=307.9473718922942,M=265.3660634334342,EQUINOX=J2000,EPOCH=09-MAY-2021:00:00:00,EpochTimeScale=TDB		
Comments: Extended=NO				
(5)	HEKTOR-SAT	TYPE=ASTEROID,A=5.248797398966552,E=0.02433034208424387,I=18.17017974988179,O=342.8120068974197,W=181.6408384539095,M=29.78305119192136,EQUINOX=J2000,EPOCH=21-JUL-2014:00:00:00,EpochTimeScale=TDB	TYPE=SAT,A=1202.417,EPOCH=2006.195:00:00:00,EpochTimeScale=UTC,N=121.3929,L=340.57847,E=0.1970732,I=146.71455,O=32.82963,W=272.13295,O_RATE=0,W_RATE=0,RAP=05H23M12.0000S,DECP=-76D06'0.00",EQUINOX=J2000	
Comments: Extended=NO				
(6)	HEKTOR	TYPE=ASTEROID,A=5.248797398966552,E=0.02433034208424387,I=18.17017974988179,O=342.8120068974197,W=181.6408384539095,M=29.78305119192136,EQUINOX=J2000,EPOCH=21-JUL-2014:00:00:00,EpochTimeScale=TDB		
Comments: Extended=NO				
(7)	617-PATROCLUS-SA	TYPE=ASTEROID,A=5.212775041416492,E=0.1394751648774633,I=22.05719641611838,O=44.3495507311498,W=307.9473718922942,M=265.3660634334342,EQUINOX=J2000,EPOCH=09-MAY-2021:00:00:00,EpochTimeScale=TDB	TYPE=SAT,A=686.272,EPOCH=2001.261:00:00:00,EpochTimeScale=UTC,N=84.058395,L=133.529622,E=0.004641,I=164.2242,O=268.5823,W=134.0539,O_RATE=0,W_RATE=0,RAP=11H57M12.0000S,DECP=-74D06'0.00",EQUINOX=J2000	
Comments: Extended=NO				
(8)	1-CERES-BACKGROUND	STD=CERES	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	
Comments: Extended=YES				
(9)	2-PALLAS-BACKGROUND	TYPE=ASTEROID,A=2.771119636471678,E=0.2338097526855965,I=34.80773731863506,O=173.2983228558771,W=309.697859274967,M=19.71349913672485,EQUINOX=J2000,EPOCH=20-SEP-1995:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	
Comments: Extended=YES				
(10)	10-HYGIEA-BACKGROUND	TYPE=ASTEROID,A=3.138404355283353,E=0.1194477019442747,I=3.84281259581846,O=283.6588232129192,W=314.3457745355738,M=356.3422142127598,EQUINOX=J2000,EPOCH=07-APR-2000:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	
Comments: Extended=YES				

Observation

Proposal 1244, Observation 1: Ceres/NIRSpec Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(1)	1-CERES	STD=CERES		

Comments: Extended=YES

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	3	

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	G235H/F170LP	NRSIRS2RAPID	2	2	false	true	NONE	3	6	262.6	
2	G395H/F290LP	NRSIRS2RAPID	3	1	false	true	NONE	3	3	175.067	

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 1-CERES FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 5: Pallas/NIRSpec Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(2)	2-PALLAS	TYPE=ASTEROID,A=2.771119636471678,E=0.2338097526855965,I=34.80773731863506,O=173.2983228558771,W=309.697859274967,M=19.71349913672485,EQUINOX=J2000,EPOCH=20-SEP-1995:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	3	

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	G235H/F170LP	NRSIRS2RAPID	2	2	false	true	NONE	3	6	262.6	
2	G395H/F290LP	NRSIRS2RAPID	3	1	false	true	NONE	3	3	175.067	

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 2-PALLAS FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 6: Hygiea/NIRSpec

Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	10-HYGIEA	TYPE=ASTEROID,A=3.138404355283353,E=0.1194477019442747,I=3.84281259581846,O=283.6588232129192,W=314.3457745355738,M=356.3422142127598,EQUINOX=J2000,EPOCH=07-APR-2000:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	3	

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	G235H/F170LP	NRSIRS2RAPID	3	1	false	true	NONE	3	3	175.067	
2	G395H/F290LP	NRSIRS2RAPID	3	1	false	true	NONE	3	3	175.067	

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 10-HYGIEA FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 22: Ceres/MIRI Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(1)	1-CERES	STD=CERES		

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	Dither 1	4	4	55.501	
1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	

Special Requirements	
	Sequence Observations 12, 22, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 1-CERES FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 12: Ceres/MIRI Background Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(8)	1-CERES-BACKGROUND	STD=CERES	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	None	1	1	13.875	
1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Special Requirements	
	Sequence Observations 12, 22, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 1-CERES-BACKGROUND FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 23: Pallas/MIRI Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(2)	2-PALLAS	TYPE=ASTEROID,A=2.771119636471678,E=0.2338097526855965,I=34.80773731863506,O=173.2983228558771,W=309.697859274967,M=19.71349913672485,EQUINOX=J2000,EPOCH=20-SEP-1995:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	Dither 1	4	4	55.501	
1	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	SHORT(A)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	

Special Requirements	
	Sequence Observations 13, 23, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 2-PALLAS FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 13: Pallas/MIRI Background Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(9)	2-PALLAS-BACKGROUND	TYPE=ASTEROID,A=2.771119636471678,E=0.2338097526855965,I=34.80773731863506,O=173.2983228558771,W=309.697859274967,M=19.71349913672485,EQUINOX=J2000,EPOCH=20-SEP-1995:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	None	1	1	13.875	
1	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
3	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Special Requirements	
	Sequence Observations 13, 23, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 2-PALLAS-BACKGROUND FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 24: Hygiea/MIRI Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	10-HYGIEA	TYPE=ASTEROID,A=3.138404355283353,E=0.1194477019442747,I=3.84281259581846,O=283.6588232129192,W=314.3457745355738,M=356.3422142127598,EQUINOX=J2000,EPOCH=07-APR-2000:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	Dither 1	4	4	55.501	
1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	LONG(C)	MRSLONG		FASTR1	5	1	1	Dither 1	4	4	55.501	
3	LONG(C)	MRSSHORT		FASTR1	5	1	1	Dither 1	4	4	55.501	

Special Requirements	
	Sequence Observations 14, 24, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 10-HYGIEA FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 14: Hygiea/MIRI Background

Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(10)	10-HYGIEA-BACKGROUND	TYPE=ASTEROID,A=3.138404355283353,E=0.1194477019442747,I=3.84281259581846,O=283.6588232129192,W=314.3457745355738,M=356.3422142127598,EQUINOX=J2000,EPOCH=07-APR-2000:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=300,ANG=0,REF=NORTH	

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray
F1500W	ALL	NO	FULL

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	1	1	None	1	1	13.875	
1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Special Requirements	
	Sequence Observations 14, 24, Non-interruptible DEFAULT WINDOW: ANGULAR RATE 10-HYGIEA-BACKGROUND FROM JWST LESS THAN 0.03

Observation

Proposal 1244, Observation 8: Patroclus/NIRSpec Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(4)	617-PATROCLUS	TYPE=ASTEROID,A=5.212775041416492,E=0.1394751648774633,I=22.05719641611838,O=44.3495507311498,W=307.9473718922942,M=265.3660634334342,EQUINOX=J2000,EPOCH=09-MAY-2021:00:00:00,EpochTimeScale=TDB		

Comments: Extended=NO

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	3	

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	3	1	false	true	NONE	3	3	175.067	

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 617-PATROCLUS FROM JWST LESS THAN 0.03
SEPARATION OF 617-PATROCLUS 617-PATROCLUS-SA FROM JWST GREATER THAN 0.2"

Observation

Proposal 1244, Observation 10: Hektor/NIRSpec Wed Nov 30 00:00:27 GMT 2022

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(6)	HEKTOR	TYPE=ASTEROID,A=5.248797398966552,E=0.0243 3034208424387,I=18.17017974988179 ,O=342.8120068974197,W=181.6408384539095,M=2 9.78305119192136,EQUINOX=J2000,EPOCH=21- JUL-2014:00:00:00,EpochTimeScale=TDB		

Comments: Extended=NO

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	3	

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	3	1	false	true	NONE	3	3	175.067	

Special Requirements

DEFAULT WINDOW: ANGULAR RATE HEKTOR FROM JWST LESS THAN 0.03
SEPARATION OF HEKTOR-SAT HEKTOR FROM JWST GREATER THAN 0.2"