



1238 - Sparse Spectral Mapping of NGC 1514

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Luis F. Miranda (CoI) (ESA Member)	Instituto de Astrofísica de Andalucía (IAA)
Dr. David Jones (CoI) (ESA Member)	Instituto de Astrofísica de Canarias
Dr. Ryan M Lau (CoI)	NOIRLab - (AZ)

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Spectral Sampling				
	11	Rings-5-W	MIRI Medium Resolution Spectroscopy	(17) NGC-1514-RINGS5-W
	12	Shell-2-NW	MIRI Medium Resolution Spectroscopy	(19) NGC-1514-SHELL2-NW
	13	Equator-SW	MIRI Medium Resolution Spectroscopy	(11) NGC-1514-EQUATOR-SW
	14	CSPN	MIRI Medium Resolution Spectroscopy	(12) NGC-1514-CSPN
	15	Rings-1-NE	MIRI Medium Resolution Spectroscopy	(13) NGC-1514-RINGS1-NE
	16	Shell-1-SE	MIRI Medium Resolution Spectroscopy	(18) NGC-1514-SHELL1-SE
	17	Rings-2-SSE	MIRI Medium Resolution Spectroscopy	(14) NGC-1514-RINGS2-SSE
	18	Background-1-SSW	MIRI Medium Resolution Spectroscopy	(21) NGC-1514-BKGND1-SSW
	19	Rings-3-S	MIRI Medium Resolution Spectroscopy	(15) NGC-1514-RINGS3-S
	20	Rings-4-SW	MIRI Medium Resolution Spectroscopy	(16) NGC-1514-RINGS4-SW
	21	Background-2-SW	MIRI Medium Resolution Spectroscopy	(22) NGC-1514-BKGND2-SW
Imaging				
	1	Image1-BKGND	MIRI Imaging	(1) NGC-1514-IMAGE-BKGNG

ABSTRACT

We wish to obtain simultaneous MIRI imaging and spectroscopy on the 3-arcminute-diameter planetary nebula NGC 1514. The primary science driver is the spectroscopy of nine specially selected areas of the nebula that will be used to gain information on the temperature, composition, and kinematics of the rings, comparing them against the properties of the more classical, optically visible nebula. However, we also wish to obtain serendipitous imaging on a best effort basis. The imaging will help us better understand the structure of the nebula as well as understand what is filling the MRS field of view since the best mid-infrared images of NGC 1514 are from the WISE all-sky survey which has a spatial resolution roughly equal to the MRS FOV. Our intent is to get images at 3 different wavelengths --- 7.7, 12.8, and 25.5 μm --- one for each of the 3 grating positions.

If we require the V3 position angle to be $258^\circ \pm 1^\circ$, we can build a very interesting mapping of nearly all of the nebula with the target positions we have chosen. (Angles a bit farther off are also acceptable, but 258 seems to be optimal angle for getting our spectral positions while maximizing the imaging coverage.) We therefore require a V3PA of 257° to 259° for the first target (the imager background field), then require all targets to have a same PA link. The background field lies a few arcminutes away from the nebula and will be used for background subtraction for all the subsequent images. We require the observations to be taken within a 24 hr window in order to best preserve the position angle for each image for the map reconstruction and well as make best use of non-changing conditions in the background spectra.

Because these spectral pointings are entirely within nebulosity, we will not do a target acquisitions at any point; the blind pointing capability of JWST is entirely adequate. While the imaging strategy (including the background field) will leave us with somewhat "dirty" images (essentially single image per position), they will be adequate to help us understand the finer structure of the nebula.

OBSERVING DESCRIPTION

Observations of the planetary nebula (PN) now known as NGC 1514 convinced William Herschel that not all nebulous sources he observed could be resolved into clusters of stars as he had thought; some were indeed surrounded by a "shining fluid" (Herschel, 1791). In modern terms, NGC 1514 is a moderately high excitation PN in Taurus, whose central source has recently been proven to be a binary star with a 9.1 yr period (Jones et al., 2017), the longest period measured spectroscopically for any PN, which only adds to the mystery of the evolutionary status of the pair (e.g. Aller et al., 2015). The overall appearance of the nebula at visible wavelengths is that of a round, lumpy, double-shelled PN composed of numerous small bubbles (Chu et al., 1987; Hajian et al., 1997). However, the WISE survey showed that it is surrounded by two large axisymmetric rings (Ressler et al., 2010). While other planetary and symbiotic nebulae have similar looking structures at visible wavelengths (e. g. MyCn 18, Hen 2-104, Abell 14),

NGC 1514 is unique in that the rings are brightly visible only in the mid-infrared. A survey of all 3000+ PN in the HASH PN database (<http://hashpn.space>) using the WISE image catalog service showed no other resolved sources with a similar infrared ring structure.

We wish to understand the nature of these rings. What is the composition of the rings? How does it compare to the inner shell? An expansion velocity of 23 km s⁻¹ was measured in the inner shell by Muthu & Anandarao (2003); can we measure similar velocities in the rings? Because of the large spatial extent of the nebula, ~ 3 arcminutes in diameter, we will obtain MIRI MRS spectra at 9 locations on the nebula itself, chosen to sample important features: on the central source, on two of the brighter bubbles in the inner shell, on the equatorial plane, and on several locations around the rings; we will also measure two positions on the background to the south of the nebula. Furthermore, despite the offset between the MIRI imager and the MRS fields-of-view, we can take advantage of the nebula's size to perform simultaneous imaging that will cover nearly all of the nebula. These images will give us more than 15 times the spatial resolution of WISE. The imaging data will allow better understanding of the relationship between the rings and the inner and outer shells; additionally, it will enable determination of the precise location of the MRS data in relation to the larger scale nebular features.

References:

- Aller A., Montesinos, B., Miranda, L. F., Solano, E., & Ulla, A. 2015, MNRAS, 448, 2822
Chu, Y.-H., Jacoby, G. H., & Arendt, R. 1987, ApJS, 64, 529
Hajian, A. R., Frank, A., Balick, B., & Terzian, Y. 1997, ApJ, 477, 226
Herschel, W. 1791, Phil. Trans., 81, 71
Jones, D., Van Winckel, H., Aller, A., et al. 2017, A&A Lett., 600, L9
Muthu, C. & Anandarao, B. G. 2003, AJ, 126, 2963
Ressler, M. E., Cohen, M., Wachter, S., et al. 2010, AJ, 140, 1882

Proposal 1238 - Targets - Sparse Spectral Mapping of NGC 1514

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	NGC-1514-IMAGE-BKGNG	RA: 04 08 58.1819 (62.2424246d) Dec: +30 49 41.40 (30.82817d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				
(11)	NGC-1514-EQUATOR-SW	RA: 04 09 15.8731 (62.3161379d) Dec: +30 46 20.95 (30.77249d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				
(12)	NGC-1514-CSPN	RA: 04 09 16.9780 (62.3207417d) Dec: +30 46 33.53 (30.77598d) Equinox: J2000	Proper Motion RA: -4.959799692703209E-4 sec of time/yr Proper Motion Dec: 0.003794999999999998 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Planetary nebulae nuclei]				
(13)	NGC-1514-RINGS1-NE	RA: 04 09 23.2257 (62.3467737d) Dec: +30 47 16.27 (30.78785d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				
(14)	NGC-1514-RINGS2-SSE	RA: 04 09 18.2174 (62.3259058d) Dec: +30 45 0.57 (30.75016d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				
(15)	NGC-1514-RINGS3-S	RA: 04 09 14.6312 (62.3109633d) Dec: +30 45 3.79 (30.75105d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				
(16)	NGC-1514-RINGS4-SW	RA: 04 09 10.7429 (62.2947621d) Dec: +30 45 44.84 (30.76246d) Equinox: J2000		
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES				

Fixed Targets

Proposal 1238 - Targets - Sparse Spectral Mapping of NGC 1514

(17)	NGC-1514-RINGS5-W	RA: 04 09 10.2282 (62.2926175d) Dec: +30 46 37.36 (30.77704d) Equinox: J2000
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES		
(18)	NGC-1514-SHELL1-SE	RA: 04 09 18.8901 (62.3287088d) Dec: +30 45 58.34 (30.76621d) Equinox: J2000
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES		
(19)	NGC-1514-SHELL2-NW	RA: 04 09 13.8191 (62.3075796d) Dec: +30 46 52.06 (30.78113d) Equinox: J2000
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES		
(21)	NGC-1514-BKGND1-SSW	RA: 04 09 15.1380 (62.3130750d) Dec: +30 43 53.34 (30.73148d) Equinox: J2000
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES		
(22)	NGC-1514-BKGND2-SW	RA: 04 09 6.3715 (62.2765479d) Dec: +30 44 28.50 (30.74125d) Equinox: J2000
<i>Comments:</i> Category=ISM Description=[Planetary nebulae] Extended=YES		

Proposal 1238 - Observation 11 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 11: Rings-5-W Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 1238 - Observation 11 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 12 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 12: Shell-2-NW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 1238 - Observation 12 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 13 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 13: Equator-SW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 1238 - Observation 13 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 14 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 14: CSPN Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																														
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Proposal 1238 - Observation 14 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 15 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 15: Rings-1-NE Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Rings-1-NE (Obs 15)) Warning (Form): Imager Filter overlap. (Rings-1-NE (Obs 15)) Warning (Form): Imager Filter overlap. (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Rings-1-NE (Obs 15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																																																																																													
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Proposal 1238 - Observation 15 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 16 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 16: Shell-1-SE Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Shell-1-SE (Obs 16)) Warning (Form): Imager Filter overlap. (Shell-1-SE (Obs 16)) Warning (Form): Imager Filter overlap. (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Shell-1-SE (Obs 16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(18)	NGC-1514-SHELL1-SE	RA: 04 09 18.8901 (62.3287088d) Dec: +30 45 58.34 (30.76621d) Equinox: J2000										
<i>Comments:</i> <i>Category=ISM</i> <i>Description=[Planetary nebulae]</i> <i>Extended=YES</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F1000W	ALL			YES			FULL		NEUTRAL			
Dithers	#	Dither Type			Optimized For				Direction				
	1	2-Point			EXTENDED SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	43	1	1	Dither 1	2	2	238.653	
	1	SHORT(A)	MRSLONG		FASTR1	43	1	1	Dither 1	2	2	238.653	
	1	SHORT(A)	MRSSHORT		FASTR1	43	1	1	Dither 1	2	2	238.653	
	2		IMAGER	F1280W	FASTR1	43	1	1	Dither 1	2	2	238.653	
	2	MEDIUM(B)	MRSLONG		FASTR1	43	1	1	Dither 1	2	2	238.653	
	2	MEDIUM(B)	MRSSHORT		FASTR1	43	1	1	Dither 1	2	2	238.653	
	3		IMAGER	F2550W	FASTR1	21	2	1	Dither 1	2	4	238.653	
	3	LONG(C)	MRSLONG		FASTR1	43	1	1	Dither 1	2	2	238.653	
	3	LONG(C)	MRSSHORT		FASTR1	43	1	1	Dither 1	2	2	238.653	

Proposal 1238 - Observation 16 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 17 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 17: Rings-2-SSE Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Rings-2-SSE (Obs 17)) Warning (Form): Imager Filter overlap. (Rings-2-SSE (Obs 17)) Warning (Form): Imager Filter overlap. (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Rings-2-SSE (Obs 17)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																																																																																													
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Proposal 1238 - Observation 17 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 18 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 18: Background-1-SSW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 1238 - Observation 18 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 19 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 19: Rings-3-S Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy <i>Comments: The imager in this position contains the CSPN, so reduce the 7.7 and 12.8 micron images to 21x2 rather than 43x1.</i>																					
	(Rings-3-S (Obs 19)) Warning (Form): Imager Filter overlap. (Rings-3-S (Obs 19)) Warning (Form): Imager Filter overlap. (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Rings-3-S (Obs 19)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																					
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Template	AcqFilter	Primary Channel		Simultaneous Imaging			Imager Subarray		Grating Wheel Direction													
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Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID									
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	2	MEDIUM(B)	MRSLONG		FASTR1	43	1	1	Dither 1	2	2	238.653										
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Proposal 1238 - Observation 19 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 20 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 20: Rings-4-SW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy <i>Comments: The imager in this position contains the CSPN, so reduce the 7.7 and 12.8 micron images to 21x2 rather than 43x1.</i>																																																																																																																																													
	(Rings-4-SW (Obs 20)) Warning (Form): Imager Filter overlap. (Rings-4-SW (Obs 20)) Warning (Form): Imager Filter overlap. (Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Rings-4-SW (Obs 20)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																																																																																													
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Proposal 1238 - Observation 20 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 21 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	Proposal 1238, Observation 21: Background-2-SW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Background-2-SW (Obs 21)) Warning (Form): Imager Filter overlap. (Background-2-SW (Obs 21)) Warning (Form): Imager Filter overlap. (Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Background-2-SW (Obs 21)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																																																																																													
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Proposal 1238 - Observation 21 - Sparse Spectral Mapping of NGC 1514

Special Requirements

Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours
Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)

Proposal 1238 - Observation 1 - Sparse Spectral Mapping of NGC 1514

Wed Jul 19 17:01:37 GMT 2023

Observation	<p>Proposal 1238, Observation 1: Image1-BKGND</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>																																																					
Diagnostics	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Image1-BKGND (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> <p>(Visit 1:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>																																																					
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NGC-1514-IMAGE-BKGNG</td> <td>RA: 04 08 58.1819 (62.2424246d) Dec: +30 49 41.40 (30.82817d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> <i>Category=ISM</i> <i>Description=[Planetary nebulae]</i> <i>Extended=YES</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NGC-1514-IMAGE-BKGNG	RA: 04 08 58.1819 (62.2424246d) Dec: +30 49 41.40 (30.82817d) Equinox: J2000																																				
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Special Requirements	<p>Aperture PA Range 261.83425324 to 263.83425324 Degrees (V3 256.99880427 to 258.99880427)</p> <p>Group Observations 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 within 24 Hours Same V3 PA 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 (Aperture PAs differ)</p>																																																					