



11827 - Observations of NGC2438

Cycle: 16, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC-2438	WFPC2	3	15-Aug-2008 21:20:04.0	yes

3 Total Orbits Used

ABSTRACT

The planetary nebula NGC2438 has a series of faint shells surrounding the bright inner portion of the PN. We are testing the feasibility of observing these shells in Ha and OIII. Ground-based images suggest that these shells may have small-scale features that will be resolved with HST.

OBSERVING DESCRIPTION

This proposal takes short and long dithered exposures in H-alpha and OIII to image the faint outer shells of NGC 2438. Shorter exposures in NII and SII will also be taken. The exposures are to test the viability of observing these faint structures as part of the SM4 ERO observations. Extrapolation from ground-based images suggests it might be feasible if there is structure that is unresolved in the ground-based images.

Proposal 11827 - Visit 01 - Observations of NGC2438

Sat Aug 16 01:20:09 GMT 2008

Visit	Proposal 11827, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: WFPC2 Special Requirements: SCHED 70%									
	(Visit 01) Warning (Orbit Planner): EXPOSURE TIME DECREASED FOR WFPC (Visit 01) Warning (Orbit Planner): EXPOSURE TIME DECREASED FOR WFPC									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false		(1-2), (3-4), (5-6)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-2438	RA: 07 41 50.5900 (115.4607917d) Dec: -14 44 7.10 (-14.73531d) Equinox: J2000		V=15+/-1	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Modified to agree with coordinates published by Brian Skiff, Lowell observatory. Small changes.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-2438	WFPC2, IMAGE, PC1	F656N	CR-SPLIT=NO			Pattern 1-2 (1)	40 Secs	
									[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
	2	(1) NGC-2438	WFPC2, IMAGE, PC1	F656N	CR-SPLIT=NO			Pattern 1-2 (1)	1000 Secs	
									[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
3	(1) NGC-2438	WFPC2, IMAGE, PC1	F502N	CR-SPLIT=NO			Pattern 3-4 (1)	40 Secs		
								[==>(Pattern 1)]	[2]	
								[==>(Pattern 2)]		
4	(1) NGC-2438	WFPC2, IMAGE, PC1	F502N	CR-SPLIT=NO			Pattern 3-4 (1)	1000 Secs		
								[==>(Pattern 1)]	[2]	
								[==>(Pattern 2)]		
5	(1) NGC-2438	WFPC2, IMAGE, PC1	F658N	CR-SPLIT=NO			Pattern 5-6 (1)	500 Secs		
								[==>(Pattern 1)]	[3]	
								[==>(Pattern 2)]		

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Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	6		(1) NGC-2438	WFPC2, IMAGE, PC1	F673N	CR-SPLIT=NO		Pattern 5-6 (1)	450 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[3]



