



11115 - Photometric Imaging of Asteroid 2 Pallas

Cycle: 16, Proposal Category: GO

(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) PALLAS	WFPC2	4	29-Aug-2007 14:55:19.0	yes
02	(2) PALLAS-COPY	WFPC2	4	29-Aug-2007 14:55:54.0	yes

8 Total Orbits Used

ABSTRACT

We propose to conduct the first HST imaging of Asteroid 2 Pallas with WFPC2-PC over 4 HST orbits. We will image the asteroid in five filters: F336w, F439w, F555w, F675w and F814w. We will utilize these observations to drastically improve the knowledge of Pallas' shape, spin pole position and surface properties, including roughness and albedo, parameters that are poorly determined by previous study. These observations will result in high signal-to-noise, high resolution surface maps from the visible to the UV. A satellite search will also be conducted for objects within the stability field of up to 21st magnitude, or about 900m in diameter. It is demonstrated in our proposal that significant scientific opportunity exists in Cycle 16 because Pallas is at both a low-phase, 3.9 degree opposition and near its closest approach to Earth, conditions that do not occur simultaneously in the next twenty years. This window represents the best chance to answer long standing, fundamental questions about Pallas, the main asteroid belt, and the formation of the solar system.

OBSERVING DESCRIPTION

We will use the WFPC2 Planetary Camera (PC1) to observe 2 Pallas in five broad band filters--F439W (B), F555W (V), F675W (R), F814W (I), and F336W (UV)--through four orbits, over most of a single rotation period of 7.1832 hrs (JPL Horizons). PC1's pixel scale gives 6-7 resolution elements across Pallas' diameter, allowing for spatially-resolved images. We will acquire approximately global longitudinal coverage for surface mapping. Shape models will be produced using representative images from each perspective. Pole determination will follow from shape models and tracking the motion of surface features through Pallas' rotation. Filters were selected for their diagnostic capabilities with respect to mineralogy and hydration, primarily to sample the full range of Pallas' spectrum available to us with WFPC2. The B, V, R and I filters cover the visible portion of Pallas' spectrum. The UV filter is in Pallas' UV spectral drop off, and so provides us with an opportunity to constrain Pallas' spectral behavior in this previously unexplored region. Pallas' surface will be mapped in each filter to determine the nature and the spatial behavior of the asteroid's mineralogy and albedo. Longer exposures in the V band and coadded frames will be used to search for satellites up to 21st magnitude (R~900m).

We seek to observe Pallas during opposition on September 4. At this time, Pallas reaches a minimum phase angle of 3.98 degrees. Pallas is also at an angular diameter 0.326 arcseconds, the maximum for this opposition. From September 1-9, the asteroid is visible at phase angles below 4.5 degrees. Before August 9 and after September 30, the phase increases to 10 degrees, resulting in the loss of half a resolution element across the asteroid's surface. This compromises both the spatial resolution of our images and the accuracy of the shape models. Ideally, we will be scheduled on or just

after September 4.

Proposal 11115 - Visit 01 - Photometric Imaging of Asteroid 2 Pallas

Visit	Proposal 11115, Visit 01, scheduling										Wed Aug 29 18:56:03 GMT 2007
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFPC2										
	Special Requirements: BETWEEN 01-SEP-2007:00:00:00 AND 09-SEP-2007:00:00:00										
	Comments: It is important that this visit be scheduled as close to the opposition of Pallas as possible in order to illuminate the greatest fraction of the asteroid as well as provide the best spatial resolution. Pallas is at minimum phase 3.98 on 2007-Sep-04 00:00 UT. Pallas is below 4.5 degrees from Aug 29-Sept 9, however, its largest angular size of 0.326 arcseconds occurs from Sept 4-9. Ideally, we will be scheduled on or just after Sept 4.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window					
	(1)	PALLAS	TYPE=ASTEROID,A=2.77166846462974, E=0.23075882817256,I=34.841828581513, O=173.191804366333,W=310.3448192659 582,M=199.72616,EQUINOX=J2000,EPO CH=10-APR-2007:00:00:00								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W				5.0 Secs		
									[==>]	[1]	
	2	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W				5.0 Secs		
									[==>]	[1]	
	3	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W				0.6 Secs		
									[==>]	[1]	
	4	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W				0.6 Secs		
									[==>]	[1]	
	5	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W				0.8 Secs		
									[==>]	[1]	
	6	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W				0.8 Secs		
									[==>]	[1]	
	7	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W				0.8 Secs		
									[==>]	[1]	
	8	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W				0.8 Secs		
									[==>]	[1]	
	9	UV Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F336W				23.0 Secs		
									[==>]	[1]	
	10	UV Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F336W				23.0 Secs		
									[==>]	[1]	
	11	Satellite Search	(1) PALLAS	WFPC2, IMAGE, PC1	F555W				3.0 Secs		
									[==>]	[1]	

Proposal 11115 - Visit 01 - Photometric Imaging of Asteroid 2 Pallas

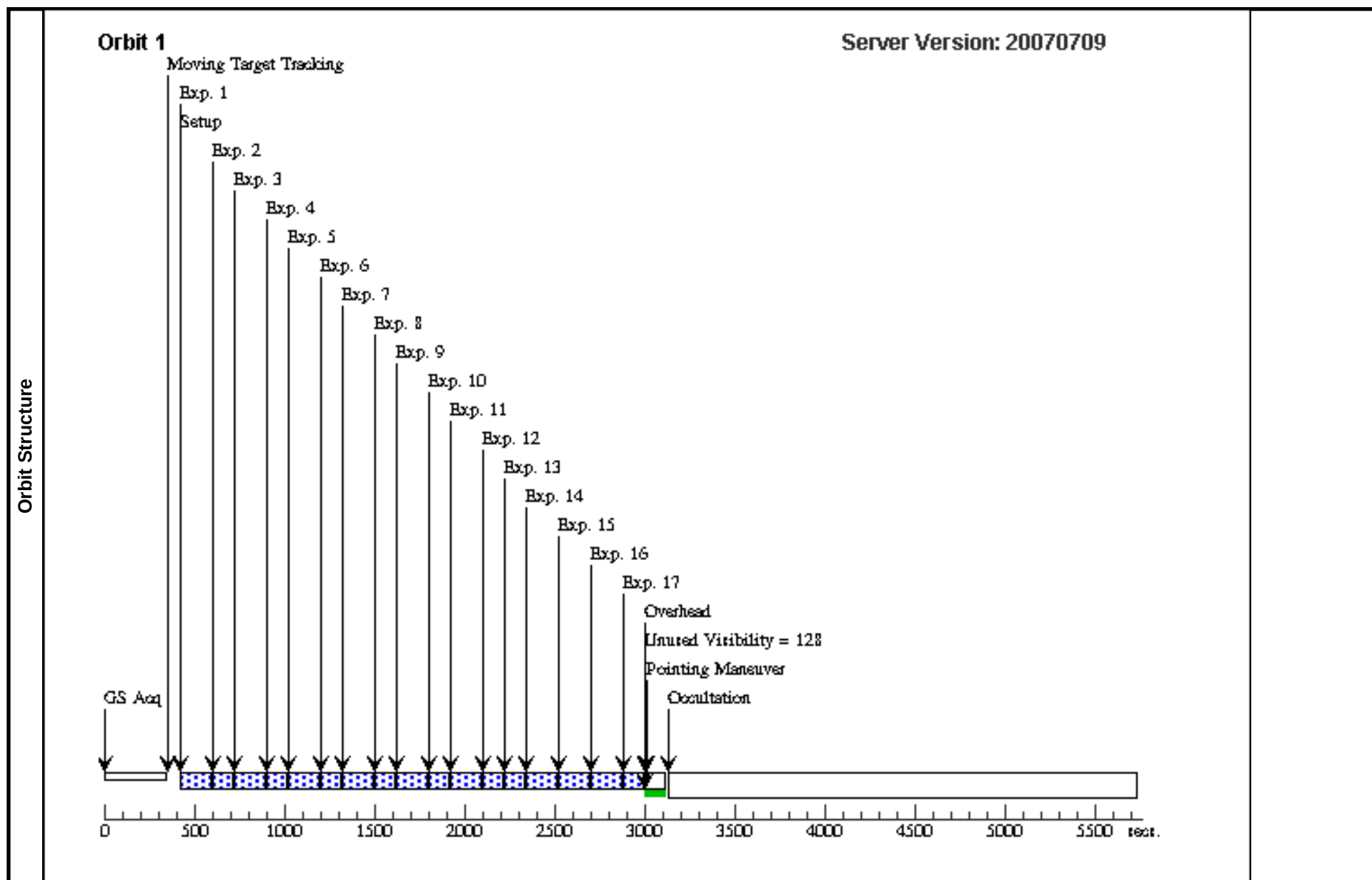
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	12	Satellite Sea rch	(1) PALLAS	WFPC2, IMAGE, PC1	F555W				3.0 Secs		
									[==>]		[1]
	13	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W				0.6 Secs		
									[==>]		[1]
	14	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W				5.0 Secs		
									[==>]		[1]
	15	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W				0.8 Secs		
									[==>]		[1]
	16	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W				23.0 Secs		
									[==>]		[1]
	17	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W				0.8 Secs		
									[==>]		[1]
	18	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		POS TARG -0.5,-0.5		5.0 Secs		
									[==>]		[2]
	19	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 18		5.0 Secs		
									[==>]		[2]
	20	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		
									[==>]		[2]
	21	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		
									[==>]		[2]
	22	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	23	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	24	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	25	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	26	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		
									[==>]		[2]
	27	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		
									[==>]		[2]
	28	Satellite Sea rch	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		3.0 Secs		
									[==>]		[2]
	29	Satellite Sea rch	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		3.0 Secs		
									[==>]		[2]
	30	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		
									[==>]		[2]

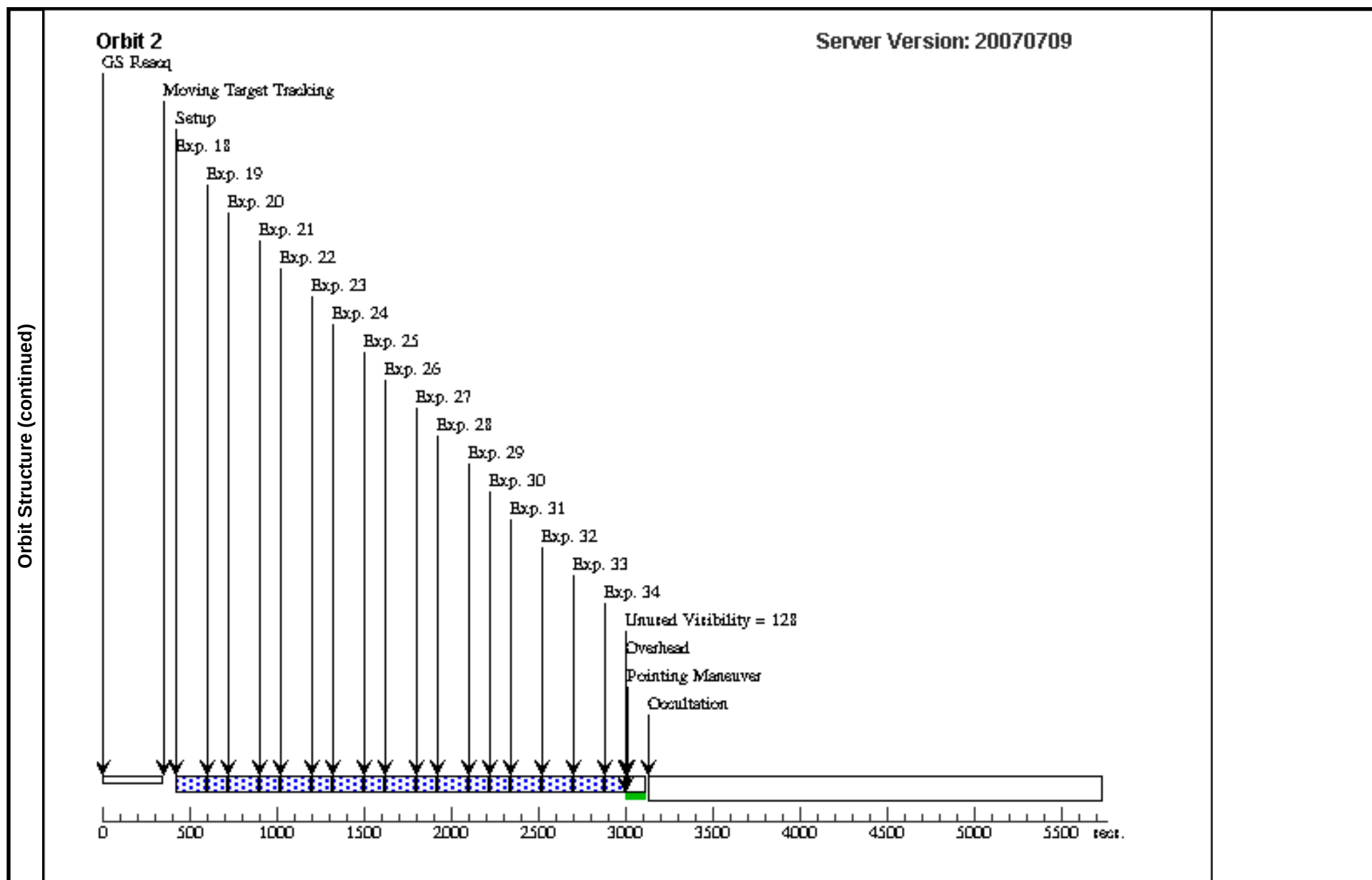
Proposal 11115 - Visit 01 - Photometric Imaging of Asteroid 2 Pallas

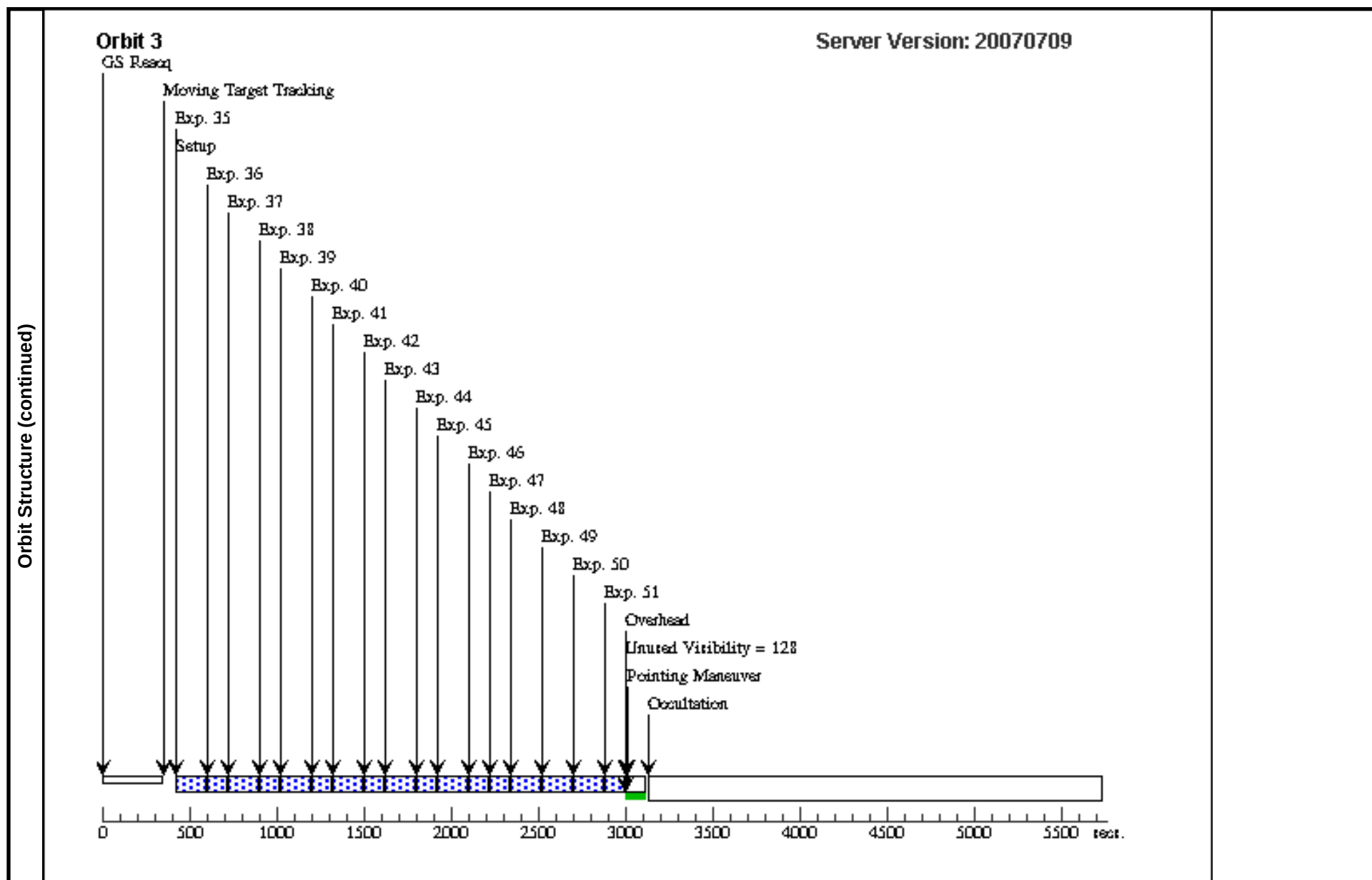
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	31	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 18		5.0 Secs		
									[==>]		[2]
	32	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	33	UV Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		
									[==>]		[2]
	34	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	35	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		POS TARG 0.5,0.5		5.0 Secs		
									[==>]		[3]
	36	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 35		5.0 Secs		
									[==>]		[3]
	37	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	38	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	39	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	40	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	41	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	42	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	43	UV Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	44	UV Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	45	Satellite Search	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		3.0 Secs		
									[==>]		[3]
	46	Satellite Search	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		3.0 Secs		
									[==>]		[3]
	47	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	48	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 35		5.0 Secs		
									[==>]		[3]
	49	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]

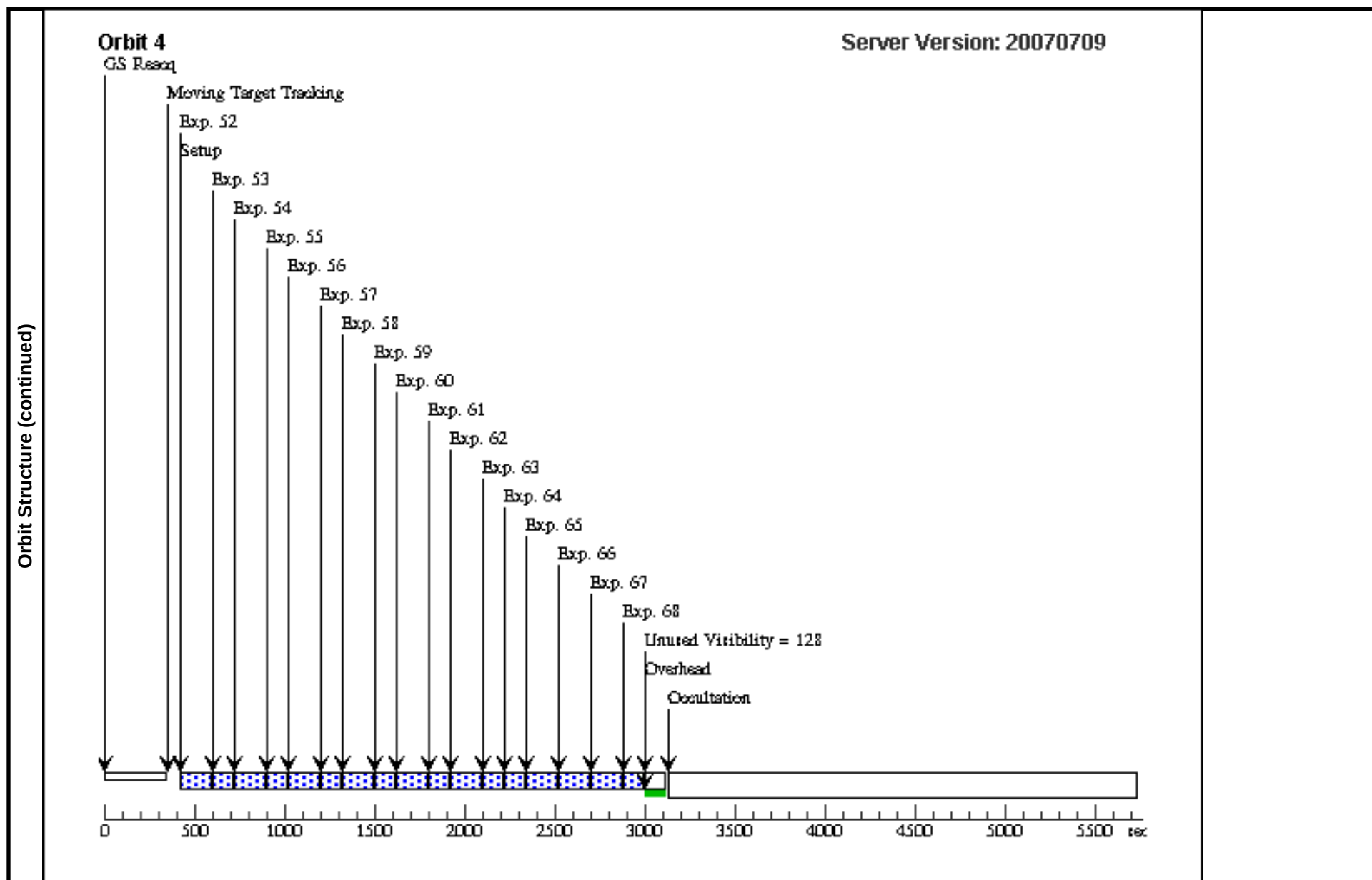
Proposal 11115 - Visit 01 - Photometric Imaging of Asteroid 2 Pallas

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	50	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	51	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	52	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		POS TARG -0.5,0.5		5.0 Secs		
									[==>]		[4]
	53	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 52		5.0 Secs		
									[==>]		[4]
	54	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	55	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	56	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	57	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	58	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	59	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	60	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	61	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	62	Satellite Sea rch	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		3.0 Secs		
									[==>]		[4]
	63	Satellite Sea rch	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		3.0 Secs		
									[==>]		[4]
	64	V Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	65	B Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F439W		SAME POS AS 52		5.0 Secs		
									[==>]		[4]
	66	R Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	67	UV Mappin g	(1) PALLAS	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	68	I Mapping	(1) PALLAS	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]









Proposal 11115 - Visit 02 - Photometric Imaging of Asteroid 2 Pallas

Visit	Proposal 11115, Visit 02, implementation										Wed Aug 29 18:56:11 GMT 2007
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFPC2										
	Special Requirements: BETWEEN 01-SEP-2007:00:00:00 AND 09-SEP-2007:00:00:00										
Comments: It is important that this visit be scheduled as close to the opposition of Pallas as possible in order to illuminate the greatest fraction of the asteroid as well as provide the best spatial resolution. Pallas is at minimum phase 3.98 on 2007-Sep-04 00:00 UT. Pallas is below 4.5 degrees from Aug 29-Sept 9, however, its largest angular size of 0.326 arcseconds occurs from Sept 4-9. Ideally, we will be scheduled on or just after Sept 4.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window					
	(2)	PALLAS-COPY	TYPE=ASTEROID,A=2.77166846462974, E=0.23075882817256,I=34.841828581513, O=173.1358033133696,W=310.344819265 9582,M=199.72616,EQUINOX=J2000,EP OCH=10-APR-2007:00:00:00								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		GS ACQ SCENARI O SINGLE		5.0 Secs		
									[==>]	[1]	
	2	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W				5.0 Secs		
									[==>]	[1]	
	3	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W				0.6 Secs		
									[==>]	[1]	
	4	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W				0.6 Secs		
									[==>]	[1]	
	5	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W				0.8 Secs		
									[==>]	[1]	
	6	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W				0.8 Secs		
									[==>]	[1]	
	7	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W				0.8 Secs		
									[==>]	[1]	
	8	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W				0.8 Secs		
								[==>]	[1]		
9	UV Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W				23.0 Secs			
								[==>]	[1]		
10	UV Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W				23.0 Secs			
								[==>]	[1]		
11	Satellite Search	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W				3.0 Secs			
								[==>]	[1]		

Proposal 11115 - Visit 02 - Photometric Imaging of Asteroid 2 Pallas

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	12	Satellite Se rch	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W				3.0 Secs		[1]
									[==>]		
	13	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W				0.6 Secs		[1]
									[==>]		
	14	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W				5.0 Secs		[1]
									[==>]		
	15	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W				0.8 Secs		[1]
									[==>]		
	16	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W				23.0 Secs		[1]
									[==>]		
	17	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W				0.8 Secs		[1]
									[==>]		
	18	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		POS TARG -0.5,-0.5		5.0 Secs		[2]
									[==>]		
	19	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 18		5.0 Secs		[2]
									[==>]		
	20	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		[2]
									[==>]		
	21	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		[2]
									[==>]		
	22	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		[2]
									[==>]		
	23	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		[2]
									[==>]		
	24	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		[2]
									[==>]		
	25	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		[2]
									[==>]		
	26	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		[2]
									[==>]		
	27	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		[2]
									[==>]		
	28	Satellite Sea rch	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		3.0 Secs		[2]
									[==>]		
	29	Satellite Sea rch	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		3.0 Secs		[2]
									[==>]		
	30	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 18		0.6 Secs		[2]
									[==>]		

Proposal 11115 - Visit 02 - Photometric Imaging of Asteroid 2 Pallas

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	31	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 18		5.0 Secs		
									[==>]		[2]
	32	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	33	UV Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 18		23.0 Secs		
									[==>]		[2]
	34	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 18		0.8 Secs		
									[==>]		[2]
	35	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		POS TARG 0.5,0.5		5.0 Secs		
									[==>]		[3]
	36	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 35		5.0 Secs		
									[==>]		[3]
	37	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	38	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	39	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	40	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	41	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	42	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	43	UV Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	44	UV Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	45	Satellite Search	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		3.0 Secs		
									[==>]		[3]
	46	Satellite Search	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		3.0 Secs		
									[==>]		[3]
	47	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 35		0.6 Secs		
									[==>]		[3]
	48	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 35		5.0 Secs		
									[==>]		[3]
	49	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]

Proposal 11115 - Visit 02 - Photometric Imaging of Asteroid 2 Pallas

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	50	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 35		23.0 Secs		
									[==>]		[3]
	51	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 35		0.8 Secs		
									[==>]		[3]
	52	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		POS TARG -0.5,0.5		5.0 Secs		
									[==>]		[4]
	53	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 52		5.0 Secs		
									[==>]		[4]
	54	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	55	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	56	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	57	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	58	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	59	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	60	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	61	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	62	Satellite Sea rch	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		3.0 Secs		
									[==>]		[4]
	63	Satellite Sea rch	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		3.0 Secs		
									[==>]		[4]
	64	V Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F555W		SAME POS AS 52		0.6 Secs		
									[==>]		[4]
	65	B Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F439W		SAME POS AS 52		5.0 Secs		
									[==>]		[4]
	66	R Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F675W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]
	67	UV Mappin g	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F336W		SAME POS AS 52		23.0 Secs		
									[==>]		[4]
	68	I Mapping	(2) PALLAS-COPY	WFPC2, IMAGE, PC1	F814W		SAME POS AS 52		0.8 Secs		
									[==>]		[4]

