

Traceability Matrix, PPS Proposal Instructions

Chapter 22: NIRCam Time Series Imaging

Requirement #	Proposal, Visit, Exposure	Comment
Introduction		
NCM0661	617 1	NIRCam Time Series Imaging template exists
NCM0853	617 1	Field: Module
NCM0854	617 1	Module, value B
NCM0662	617 1	Field: Subarray
NCM0663	617 1	Subarray, choose from list: FULL, SUB400P, SUB160P, SUB64P
NCM0672	617 1	Field: Number of Exposures
NCM0673	617 1	Number of Exposures, number
NCM0664	617 1	Field: Filter/Pupil
NCM0665	617 1	Filter/Pupil, choose from list
NCM0666	617 1	Field: Science Readout Pattern
NCM0667	617 1	Science Readout Pattern, chose from list
NCM0668	617 1	Field: Science Number of Groups
NCM0669	617 1	Science Number of Groups, number
NCM0670	617 1	Field: Science Number of Integrations
NCM0671	617 1	Science Number of Integrations, number
NCM0676		cannot be used in parallel
NCM0677	617 1	cannot have parallels attached
NCM0678		NO PARALLEL special requirement should be added implicitly
NCM0679	617 1	cannot be used with a mosaic - no tab for mosaic
Module		
NCM0680	617 1	B
Subarray		
NCM0681	617 1	FULL
NCM0682	617 2	SUB400P
NCM0683	617 3	SUB160P
NCM0684	617 4	SUB64P
Number of Exposures		
NCM0852	617 1	Number of Exposures
NCM0950		warning visit duration > 100 hours; PR 82000 not yet implemented
Exposure Specification		
NCM0685	617 1	select each filter and pupil pair
Filter and Pupil Names		
Supported Short Wavelength Optical Configurations		
		F070W
NCM0718	617 1	CLEAR Y
NCM0719	910 1	F162M N
NCM0720	910 2	F164N N
NCM0721	910 3	WLP8 N
		F090W
NCM0722	617 8	CLEAR Y
NCM0723	910 4	F162M N
NCM0724	910 5	F164N N
NCM0725	910 6	WLP8 N
		F115W
NCM0726	617 10	CLEAR Y

NCM0727	910 7	F162M N
NCM0728	910 8	F164N N
NCM0729	910 9	WLP8 N
	F150W	
NCM0730	617 17	CLEAR Y
NCM0731	910 10	F162M N
NCM0732	617 3	F164N Y
NCM0733	617 18	WLP8 Y
	F150W2	
NCM0734	910 11	CLEAR N
NCM0735	617 2	F162M Y
NCM0736	910 12	F164N N
NCM0737	910 13	WLP8 N
	F200W	
NCM0738	910 26	CLEAR Y
NCM0739	910 14	F162M N
NCM0740	910 15	F164N N
NCM0741	617 11	WLP8 Y
	F140M	
NCM0742	617 19	CLEAR Y
NCM0743	910 16	F162M N
NCM0744	910 17	F164N N
NCM0745	617 6	WLP8 Y
	F182M	
NCM0746	617 20	CLEAR Y
NCM0747	910 18	F162M N
NCM0748	910 19	F164N N
NCM0749	617 7	WLP8 Y
	F210M	
NCM0750	910 27	CLEAR Y
NCM0751	910 20	F162M N
NCM0752	910 21	F164N N
NCM0753	617 12	WLP8 Y
	F187N	
NCM0754	617 21	CLEAR Y
NCM0755	910 22	F162M N
NCM0756	910 23	F164N N
NCM0757	617 4	WLP8 Y
	F212N	
NCM0758	617 5	CLEAR Y
NCM0759	910 24	F162M N
NCM0760	910 25	F164N N
NCM0761	617 22	WLP8 Y
Supported Long Wavelength Optical Configurations		
	F277W	
	617 13	CLEAR CLEAR Y
	910 28	F162M CLEAR Y
NCM0762	910 38	F164N CLEAR Y
NCM0763	910 48	WLP8 F323N N
NCM0764	910 59	WLP8 F405N N
NCM0765	910 70	WLP8 F466N N
NCM0766	910 81	WLP8 470N N
	F322W2	

	617 3	CLEAR CLEAR Y
	910 29	F162M CLEAR Y
NCM0767	910 39	F164N CLEAR Y
NCM0768	910 49	WLP8 F323N N
NCM0769	910 60	WLP8 F405N N
NCM0770	910 71	WLP8 F466N N
NCM0771	910 82	WLP8 470N N
	F356W	
	910 26	CLEAR CLEAR Y
	910 30	F162M CLEAR Y
NCM0772	910 40	F164N CLEAR Y
NCM0773	617 6	WLP8 F323N Y
NCM0774	910 61	WLP8 F405N N
NCM0775	910 72	WLP8 F466N N
NCM0776	910 83	WLP8 470N N
	F444W	
	617 5	CLEAR CLEAR Y
	910 31	F162M CLEAR Y
NCM0777	910 41	F164N CLEAR Y
NCM0778	910 50	WLP8 F323N N
NCM0779	617 4	WLP8 F405N Y
NCM0780	617 7	WLP8 F466N Y
NCM0781	617 11	WLP8 470N Y
	F250M	
	617 10	CLEAR CLEAR Y
	617 23	F162M CLEAR Y
NCM0782	910 42	F164N CLEAR Y
NCM0783	910 51	WLP8 F323N N
NCM0784	910 62	WLP8 F405N N
NCM0785	910 73	WLP8 F466N N
NCM0786	910 84	WLP8 470N N
	F300M	
	617 1	CLEAR CLEAR Y
	910 32	F162M CLEAR Y
NCM0787	910 43	F164N CLEAR Y
NCM0788	910 52	WLP8 F323N N
NCM0789	910 63	WLP8 F405N N
NCM0790	910 74	WLP8 F466N N
NCM0791	910 85	WLP8 470N N
	F335M	
	910 27	CLEAR CLEAR Y
	910 33	F162M CLEAR Y
NCM0792	617 14	F164N CLEAR Y
NCM0793	910 53	WLP8 F323N N
NCM0794	910 64	WLP8 F405N N
NCM0795	910 75	WLP8 F466N N
NCM0796	910 86	WLP8 470N N
	F360M	
	617 9	CLEAR CLEAR Y
	617 24	F162M CLEAR Y
NCM0797	910 44	F164N CLEAR Y
NCM0798	910 54	WLP8 F323N Y
NCM0799	910 65	WLP8 F405N N
NCM0800	910 76	WLP8 F466N N

NCM0801	910 87	WLP8 470N N
	F410M	
NCM0802	617 8 910 34 910 45	CLEAR CLEAR Y F162M CLEAR Y F164N CLEAR Y
NCM0803	910 55	WLP8 F323N N
NCM0804	910 66	WLP8 F405N N
NCM0805	910 77	WLP8 F466N N
NCM0806	910 88	WLP8 470N N
	F430M	
NCM0807	617 15 910 35 617 25	CLEAR CLEAR Y F162M CLEAR Y F164N CLEAR Y
NCM0808	910 56	WLP8 F323N N
NCM0809	910 67	WLP8 F405N N
NCM0810	910 78	WLP8 F466N N
NCM0811	910 89	WLP8 470N N
	F460M	
NCM0812	617 2 910 36 910 46	CLEAR CLEAR Y F162M CLEAR Y F164N CLEAR Y
NCM0813	910 57	WLP8 F323N N
NCM0814	910 68	WLP8 F405N N
NCM0815	910 79	WLP8 F466N N
NCM0816	910 90	WLP8 470N N
	F480M	
NCM0817	617 16 910 37 910 47	CLEAR CLEAR Y F162M CLEAR Y F164N CLEAR Y
NCM0818	910 58	WLP8 F323N N
NCM0819	910 69	WLP8 F405N N
NCM0820	910 80	WLP8 F466N N
NCM0821	910 91	WLP8 470N N
NCM0822		SW config selected first, LW initially grayed out then present only allowed LW configurations
Readout Pattern		
NCM0823	617 7	RAPID
NCM0824	617 4	BRIGHT1
NCM0825	617 5	BRIGHT2
NCM0826	617 1	SHALLOW2
NCM0827	617 8	SHALLOW4
NCM0828	617 9	MEDIUM2
NCM0829	617 3	MEDIUM8
NCM0830	617 2	DEEP2
NCM0831	617 6	DEEP8
Number of Groups		
NCM0832	617 1	Number of Groups
Number of Integrations		
NCM0833	617 1	Number of Integrations
NCM0855	617 2 617 12	Number of Integrations: 1 13
NCM0856	617 14	Number of Integrations: 65536
	910 101 910 102	Illegal value 0 65537

Maximum Number of Groups for Time Series F070W		
Legal Max Values		
NCM0834	617 7	RAPID 10
NCM0835	617 4	BRIGHT1 10
NCM0836	617 5	BRIGHT2 10
NCM0837	617 1	SHALLOW2 10
NCM0838	617 8	SHALLOW4 10
NCM0839	617 9	MEDIUM2 10
NCM0840	617 3	MEDIUM8 10
NCM0841	617 2	DEEP2 20
NCM0842	617 6	DEEP8 20
Illegal Max Values		
NCM0843	910 92	RAPID 11
NCM0844	910 93	BRIGHT1 11
NCM0845	910 94	BRIGHT2 11
NCM0846	910 95	SHALLOW2 11
NCM0847	910 96	SHALLOW4 11
NCM0848	910 97	MEDIUM2 11
NCM0849	910 98	MEDIUM8 11
NCM0850	910 99	DEEP2 21
NCM0851	910 100	DEEP8 21