

1181 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

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OBSERVATIONS

Folder	Observation	Label	Observing Template	Science Target
Mediun	/HST Folder		-	
	8	Medium/HST F1	NIRSpec MultiObject Spectroscopy	(12) TARGET-OBSERVATION-8
	9	Medium/HST F2	NIRSpec MultiObject Spectroscopy	(13) TARGET-OBSERVATION-9
	10	Medium/HST F3	NIRSpec MultiObject Spectroscopy	(14) TARGET-OBSERVATION-10
	11	Medium/HST F4	NIRSpec MultiObject Spectroscopy	(15) TARGET-OBSERVATION-11
	12	Medium/HST F5	NIRSpec MultiObject Spectroscopy	(16) TARGET-OBSERVATION-12
	13	Medium/HST F6	NIRSpec MultiObject Spectroscopy	(17) TARGET-OBSERVATION-13
NIRCar	n+MIRI Mediun	n Folder		
	7	NIRCam+MIRI Mediu	NIRCam Imaging	(11) GOODS-N-MEDIUM07
		m		
Medium	J/JWST Folder			
	14	Medium/JWST F1	NIRSpec MultiObject Spectroscopy	(18) TARGET-OBSERVATION-14
	15	Medium/JWST F2	NIRSpec MultiObject Spectroscopy	(19) TARGET-OBSERVATION-15
	16	Medium/JWST F3	NIRSpec MultiObject Spectroscopy	(20) TARGET-OBSERVATION-16
	17	Medium/JWST F4	NIRSpec MultiObject Spectroscopy	(21) TARGET-OBSERVATION-17

JWST Proposal 1181 (Created: Tuesday, June 25, 2019 at 6:01:10 PM Eastern Standard Time) - Overview

ABSTRACT

We will conduct an ambitious deep-field survey to study the formation and evolution of galaxies from z 12 to z 2. Our program combines NIRSpec, NIRCam, and MIRI data, alongside the deepest data from HST, Chandra, ALMA, and JVLA, to produce an unprecedented view of high-redshift galaxies. The program is a collaboration of the NIRSpec and NIRCam GTO teams, and it combines imaging and spectroscopy as well as full use of coordinated parallel observations to get the best out of all three instruments. Indeed, to pursue a detailed understanding of galaxy evolution, the combination of imaging and spectroscopy is critical. By bringing these data sets together on a single field, we will carry out systematic investigations far beyond the sum of the parts.

This survey will provide the rest-frame optical data of sufficient area, depth, and spectral resolutions to map galaxy population properties, including the joint distribution of stellar mass, luminosity, star formation rate, stellar ages, sizes, metallicity, nuclear activity, gas kinematics, and outflows, over a wide range of redshifts. Broadly speaking, spectroscopy (at R = 100, 1000, and 2700) provides precise and robust redshifts, measurement of the stellar continuum, and emission lines to z=10 and beyond. The emission lines allow us to diagnose the galaxies' star formation rate (SFR), metallicities, chemical abundances, the ISM dust-reddening, and the ISM excitation, including signatures of AGNs. Low-resolution spectroscopy (R=100) for the brighter objects can also diagnose the stellar populations (especially the stellar age distribution). High-resolution spectroscopy (R=2700) can diagnose internal galaxy kinematics and outflows.

The multi-wavelength NIRCam imaging will allow the detection, selection and characterization of galaxies to z = 15 and perhaps beyond. It will determine colors, morphological structure, and color gradients, while supplying photometric redshifts, stellar mass, and star formation rate estimates along with measures of equivalent widths of the strongest emission lines. The depth reached is unparalleled and will lead to luminosity functions to substantially higher redshift and lower mass than can be done with HST. Deep MIRI imaging will enable a rest-frame infrared view of subset of our sample, testing the assumptions of our UV/optical modeling and revealing heavily obscured stellar populations and nuclear activity. Combination with external data from Chandra, JVLA, and ALMA will further explore nuclear activity and dusty star formation. We expect that this carefully constructed survey will provide a primary legacy dataset for many years to come.

Warning: The pointing positions in this APT file are not yet final as the mosaic positions depend upon the field orientation which in turn depends on the as yet undetermined date of observation. Additionally, the NIRSpec MOS target catalog(s) included in this APT file are a placeholder for the actual catalogs that will be revised depending upon the final pointing positions and, in some cases, the analysis of NIRCam pre-imaging. An explanation of these issues and full field NIRSpec MOS target catalogs are available at https://issues.cosmos.esa.int/jwst-nirspecwiki/pages/viewpage.action?pageId=3473486

JWST Proposal 1181 (Created: Tuesday, June 25, 2019 at 6:01:10 PM Eastern Standard Time) - Overview

OBSERVING DESCRIPTION

This APT file contains two sets of observations:

The first set (observations 7,8,9,10,11,12,13) performs a NIRCam "pre-imaging" mosaic in the GOODS-N field using NIRCam as primary with MIRI as the parallel instrument (observation 7) and NIRSpec as primary with NIRCam as parallel (observations 8,9,10,11,12,13), but with the NIRSpec positions chosen such that NIRCam images are contiguous.

The second set (observations 14,15,16,17) are NIRSpec MSA follow-up of this NIRCam mosaic, also with NIRCam parallel observations.

The first set are constrained to be observed at orientation 240<V3PA<250 to provide a good alignment of the NIRCam Border parallels with existing data.

There is a scheduling constraint that the MSA follow-up comes >60 days after the NIRCam pre-imaging.

Medium/HST (observations 8,9,10,11,12,13)

NIRCam GTO team observations of GOODS-N with NIRSpec in parallel.

Mosaic positions correct for V3PA=245 (NIRSpec MSA PA=23.49). All positions need to be changed for any other PA.

NIRcam+MIRI Medium (observation 7)

NIRCam GTO team observations of GOODS-N with MIRI in parallel.

Mosaic positions correct for V3PA=245. Position need to be changed for any other PA.

Medium/JWST (observations 14,15,16,17)

NIRSpec GTO team observations of GOODS-N with NIRCam border in parallel

Mosaic positions correct for V3PA=155 (NIRSpec MSA PA=293.49). All positions need to be changed for any other PA.

A note on NIRSpec MSA catalog and configurations

JWST Proposal 1181 (Created: Tuesday, June 25, 2019 at 6:01:10 PM Eastern Standard Time) - Overview

A dummy, very small catalog was used to prepare these configurations to avoid the problem of slow loading of APT files with large catalogs used in many MSA configurations.

Real target catalogs are included in the MPT part of the APT file, but was not used in these dummy configurations.

The actual targets entering the MSA shutters will be defined, with target prioritisation, only after the instrument distortion is characterized during commissioning, and for the Medium/JWST after analysis of NIRCam pre-imaging. See https://issues.cosmos.esa.int/jwst-nirspecwiki/pages/viewpage.action?pageId=3473486 for details

Proposal 1181 - Targets - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(11)	GOODS-N-MEDIUM07	RA: 12 36 47.1200 (189.1963333d)	Proper Motion RA: 0.0 mas/yr	
			Dec: +62 16 14.54 (62.27071d)	Proper Motion Dec: 0.0 mas/yr	
			Equinox: J2000	Parallax: 0.0"	
				Epoch of Position: 2000	
	Comments: Category=U				
	Description= Extended=YI	[High Latitude Field] ES			
	(12)		RA: 12 36 31.0000 (189.1291667d)		
			Dec: +62 15 15.00 (62.25417d)		
			Equinox: J2000		
		his target was generated automa	tically for MSA Observation 8		
	Category=Ge Description= Extended=YI	[Active galactic nuclei, High-red	lshift galaxies, Primordial galaxies, Starburst galaxies]		
	(13)		RA: 12 36 31.0000 (189.1291667d)		
			Dec: +62 15 15.00 (62.25417d)		
			Equinox: J2000		
		his target was generated automa	tically for MSA Observation 9		
	Category=Ge Description= Extended=YI	[Active galactic nuclei, High-red	lshift galaxies, Primordial galaxies, Starburst galaxies]		
Targets	(14)	TARGET-OBSERVATION-	RA: 12 36 31.0000 (189.1291667d)		
ğ	,	10	Dec: +62 15 15.00 (62.25417d)		
E B			Equinox: J2000		
eg	Comments: T	his target was generated automa	tically for MSA Observation 10		
FIxed	Category=Ge Description= Extended=YI	[Active galactic nuclei, High-red	lshift galaxies, Primordial galaxies, Starburst galaxies]		
	(15)	TARGET-OBSERVATION-	RA: 12 36 31.0000 (189.1291667d)		
	(13)	11	Dec: +62 15 15.00 (62.25417d)		
			Equinox: J2000		
	Comments: T	his target was generated automa	•		
	Category=Ge Description=	alaxy [Active galactic nuclei, High-red	lshift galaxies, Primordial galaxies, Starburst galaxies]		
	Extended=YI (16)	TARGET-OBSERVATION-	RA: 12 36 31.0000 (189.1291667d)		
	(10)	12	Dec: +62 15 15.00 (62.25417d)		
			Equinox: J2000		
	Comments: T	This target was generated automa	1		
	Category=G	alaxy [Active galactic nuclei, High-rec	lshift galaxies, Primordial galaxies, Starburst galaxies]		
	(17)	TARGET-OBSERVATION-	RA: 12 36 31.0000 (189.1291667d)		
	· · /	13	Dec: +62 15 15.00 (62.25417d)		
			Equinox: J2000		
	Comments: T	his target was generated automa	•		
	Category=G	alaxy			
	Description= Extended=YI	:[Acuve galacuc nuclei, High-red ES	Ishift galaxies, Primordial galaxies, Starburst galaxies]		

Proposal 1181 - Targets - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

(18) TARGET-OBSERVATION-RA: 12 36 31.0000 (189.1291667d) Dec: +62 15 15.00 (62.25417d) Equinox: J2000 Comments: This target was generated automatically for MSA Observation 14 Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES (19) TARGET-OBSERVATION- RA: 12 36 31.0000 (189.1291667d) Dec: +62 15 15.00 (62.25417d) Equinox: J2000 Comments: This target was generated automatically for MSA Observation 15 Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES (20)RA: 12 36 31.0000 (189.1291667d) TARGET-OBSERVATION-Dec: +62 15 15.00 (62.25417d) Equinox: J2000 Comments: This target was generated automatically for MSA Observation 16 Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES TARGET-OBSERVATION-RA: 12 36 31.0000 (189.1291667d) (21)Dec: +62 15 15.00 (62.25417d) Equinox: J2000 Comments: This target was generated automatically for MSA Observation 17 Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES

Pro	oposal 1181	- Observati	on 8 - NIR	Cam-NIRSp	ec galaxy ass	embly surve	/ - GOODS	S-N			
		Observation 8: Med								Tue Jun 25	23:01:11 GMT 2019
Observation	Diagnostic Statu	s: Warning									
≥		ate: NIRSpec Multi		рру							
l se	Coordinated Para	llel Template(s): NI	RCam Imaging								
ō											
Diagnostics	(Visit 8:1) Warnin	ng (Form): Overhea	ds are provisional	until the Visit Plan	nner has been run.						
ls	# Na	ame		Coordinates		Targ. Coo	rd. Corrections		Miscellane	ous	
Targets	(12) TA	ARGET-OBSERVA									
arc a	1			52 15 15.00 (62.25	417d)						
Ϊ́̈́			•	x: J2000							
Fixed	Category-Galary	target was generated v									
Ī	Description=[Act	, tive galactic nuclei,	High-redshift gal	axies, Primordial g	alaxies, Starburst galax	cies]					
-			Target	Filter	MSA	Readout Pattern	Groups/Int	Integrations/Exp	Total	Total Evnosure	ETC Wkbk.Calc
itio	MultiObject Spectroscopy	Bin	Target	riici	Configuration	Readout I attern	Groups/Int	Integrations/Exp	Integrations	Time	ID ID
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
ţ	NIRSpec MultiC	Object Spectroscopy	y			NIRCar	n Imaging				
Template	TA Method: MSA	ATA				Module:	ALL				
ΙĒ	Obtain Confirmat	tion Images: No				Subarray	: FULL				
		: MSA Center									
Reference Stars											
Refe											
	#					Dither 7	`ype				
he	1					NONE					
Dithers											
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Proposal 1181 - Observation 8 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern			ions/Exp		Total Dither	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1		NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1		NONE	3	3	2888.6	
lem (3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1		NONE	3	3	2888.6	
la E	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1		NONE	3	3	3545.1	
Spectral Elements	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1		NONE	3	3	3545.1	
S	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1		NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1		NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1		NONE	3	3	3545.1	
တ္သ	NIRCam Imaging	g Short Filter	Long Filter	Readout Par	ttern (Groups/Int	Integrati	ons/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
Ιţ	1	F115W	F444W	DEEP8	ϵ	5	1		3	3	3478.713	
ΙĔ	2	F150W	F356W	DEEP8	5	5	1		3	3	2834.507	
Spectral Elements	3	F200W	F277W	DEEP8	5	5	1		3	3	2834.507	
] = I	4	F090W	F410M	DEEP8	ϵ	5	1		3	3	3478.713	
1 #	5	F090W	F410M	DEEP8	ϵ	5	1		3	3	3478.713	
ĕ	6	F200W	F277W	DEEP8	5	5	1		3	3	2834.507	
S	7	F150W	F356W	DEEP8	5	5	1		3	3	2834.507	
	8	F115W	F444W	DEEP8	ϵ	ó	1		3	3	3478.713	
Special Requirements	No Parallel MSA Planned Ape	erture PA 23.49234	to 23.49234 Degree	s (V3 245.0 to 245.0)							
l e	•		· ·		,							
ē	Same v5 PA 7, 6,	9, 10, 11, 12, 13 (A	aperture PAs differ)									
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Pr	oposal 1181	- Observati	on 9 - NIF	RCam-NIRSp	ec galaxy ass	embly surve	/ - GOODS	S-N			
_		Observation 9: Med								Tue Jun 25	23:01:11 GMT 2019
Observation	Diagnostic Statu	s: Warning									
<u>≥</u>		late: NIRSpec Multi		copy							
Se	Coordinated Para	llel Template(s): NI	RCam Imaging								
Ö											
Diagnostics	(Visit 9:1) Warni	ng (Form): Overhead	ds are provision	al until the Visit Plar	nner has been run.						
Diag		ame	Tara	et Coordinates		Tara Coo	rd. Corrections		Miscellaneo	nuc	
ts	(13) TA			12 36 31.0000 (189.1	291667d)	rarg. Coo	ru. Corrections		Miscenane	ous	
Targets	(13)	AKOLI-ODSLKVA		+62 15 15.00 (62.254							
<u>a</u>				nox: J2000	1174)						
р		target was generated	•	for MSA Observation	19						
Fixed	Category=Galax	v			alaxies, Starburst galax	xies]					
sition	NIRSpec MultiObject Spectroscopy	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
ē	NIRSpec MultiC	Object Spectroscopy	y			NIRCar	n Imaging				
Template	TA Method: MSA					Module:					
ΙĒ	Obtain Confirmat	tion Images: No				Subarray	: FULL				
_	Science Aperture	: MSA Center									
ice Stars											
Reference											
S	#					Dither T	`ype				
18	1					NONE					
Dithers											

Proposal 1181 - Observation 9 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		(V assembly s /Int Integration	ons/Exp Autocal	Total Dithe	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
lem(3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
ral E	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1	NONE	3	3	3545.1	
Spectral Elements	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1	NONE	3	3	3545.1	
S	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1	NONE	3	3	3545.1	
S	NIRCam Imaging	g Short Filter	Long Filter	Readout Pa	ttern (Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
Spectral Elements	1	F115W	F444W	DEEP8	(6	1	3	3	3478.713	
ΙĔ	2	F150W	F356W	DEEP8	4	5	1	3	3	2834.507	
I∺	3	F200W	F277W	DEEP8	4	5	1	3	3	2834.507	
<u>ه</u> ا	4	F090W	F410M	DEEP8	(6	1	3	3	3478.713	
1 #	5	F090W	F410M	DEEP8	(6	1	3	3	3478.713	
ĕ	6	F200W	F277W	DEEP8	4	5	1	3	3	2834.507	
S	7	F150W	F356W	DEEP8	4	5	1	3	3	2834.507	
	8	F115W	F444W	DEEP8	(6	1	3	3	3478.713	
ents	No Parallel MSA Planned Ape	erture PA 23.49234	to 23.49234 Degree	s (V3 245.0 to 245.0)						
Special Requirements	Same V3 PA 7, 8,	9, 10, 11, 12, 13 (A	Aperture PAs differ)								

Pr	oposal 118°	1 - Observati	on 10 -	NIRCam-NIRS	pec galaxy as	sembly surve	ey - GOOE	DS-N			
Ľ	Proposal 1181,	Observation 10: Me	dium/HST	F3						Tue Jun 25	23:01:11 GMT 2019
Observation	Diagnostic State	us: Warning									
≥		olate: NIRSpec Multi		**							
l se	Coordinated Par	allel Template(s): NI	RCam Imag	ing							
ō											
Diagnostics	(Visit 10:1) War	ning (Form): Overhe	ads are prov	isional until the Visit Plai	nner has been run.						
တ	# N	lame		arget Coordinates		Targ. Coo	ord. Corrections		Miscellane	ous	
Targets	(14) T	'ARGET-OBSERVA' 0		A: 12 36 31.0000 (189.12							
a.	1	O		ec: +62 15 15.00 (62.254	17d)						
١Ę				quinox: J2000							
Fixed	Category=Galax	xv		ally for MSA Observation ft galaxies, Primordial ga		xies]					
sition	NIRSpec MultiObject Spectroscopy	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
te	NIRSpec Multi	Object Spectroscopy	y			NIRCar	n Imaging				
Template	TA Method: MS	SATA				Module:	ALL				
ΙĒ		ation Images: No				Subarray	: FULL				
	Science Aperture	e: MSA Center									
Stars											
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e l											
Reference											
Dithers	#					Dither 7	Гуре				
[달	1					NONE					
ق											

Proposal 1181 - Observation 10 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		/Int Integrations/Ex		Total Dither	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
leme	3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1	NONE	3	3	3545.1	
pect	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1	NONE	3	3	3545.1	
<u>اي</u>	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ွ	NIRCam Imaging	g Short Filter	Long Filter	Readout Pa	ttern	Groups/Int Integr	ations/Exp	Total Integrations	Total Dithers		ETC Wkbk.Calc ID
Elements	1	F115W	F444W	DEEP8		6 1		3	3	3478.713	
١٤	2	F150W	F356W	DEEP8		5 1		3	3	2834.507	
	3	F200W	F277W	DEEP8		5 1		3	3	2834.507	
<u>=</u>	4	F090W	F410M	DEEP8		6 1		3	3	3478.713	
Ιξ	5	F090W	F410M	DEEP8		6 1		3	3	3478.713	
Spectral	6	F200W	F277W	DEEP8	:	5 1		3	3	2834.507	
ဖြ	7	F150W	F356W	DEEP8	:	5 1		3	3	2834.507	
	8	F115W	F444W	DEEP8		6 1		3	3	3478.713	

No Paralle MSA Plant Same V3 F

No Parallel MSA Planned Aperture PA 23.49234 to 23.49234 Degrees (V3 245.0 to 245.0)

			S-N	ey - GOODS	sembly surve	ec galaxy as	am-NIRSp	1 - NIRC	tion 11	- Observat	posal 118 ²	Pro	
3:01:11 GMT 2019	Tue Jun 25 2									Observation 11: M			
										_	Diagnostic State	Observation	
										ate: NIRSpec Mult		X	
								maging	VIRCam I	llel Template(s): N	Coordinated Para	SS	
												ō	
						er has been run.	itil the Visit Plann	provisional un	neads are p	ing (Form): Overho	(Visit 11:1) War	Diagnostics	
	neous	Miscellaneo		ord. Corrections	Targ. Coo			Target Coo		ime		ဟု	
							31.0000 (189.129		ATION-	ARGET-OBSERV	(15) T.	Targets	
						d)	5 15.00 (62.25417				1.	a.	
								Equinox: J2				Fixed T	
	Comments: This target was generated automatically for MSA Observation 11 Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES												
ETC Wkbk.Calc ID	Total Exposure Time	Total Integrations	Integrations/Exp	Groups/Int	Readout Pattern	MSA Configuration	Filter	et	Targe	Reference Star Bin	NIRSpec MultiObject Spectroscopy	sition	
	558.312	4	1	3	NRS	Auto Acq MSA Config	F140X	ΙE	SAM		1	Acquisition	
				n Imaging	NIRCam				ру	bject Spectroscop	NIRSpec Multi	te	
				ALL	Module:					ATA	TA Method: MS	Template	
				: FULL	Subarray					-	Obtain Confirma	ΙĒ	
										MSA Center	Science Aperture		
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				Гуре	Dither T NONE						1	Dithers	

Proposal 1181 - Observation 11 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern	Groups	s/Int Integrations	Exp Autocal	Total Dithe	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
lem(3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1	NONE	3	3	3545.1	
pect	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1	NONE	3	3	3545.1	
s	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1	NONE	3	3	3545.1	
S	NIRCam Imaging	g Short Filter	Long Filter	Readout Pa	ttern	Groups/Int Int	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
Ιź	1	F115W	F444W	DEEP8		6 1		3	3	3478.713	
ΙĔ	2	F150W	F356W	DEEP8		5 1		3	3	2834.507	
I#	3	F200W	F277W	DEEP8		5 1		3	3	2834.507	
1=	4	F090W	F410M	DEEP8		6 1		3	3	3478.713	
ΙĦ	5	F090W	F410M	DEEP8		6 1		3	3	3478.713	
Spectral Elements	6	F200W	F277W	DEEP8		5 1		3	3	2834.507	
<u> </u>	7	F150W	F356W	DEEP8		5 1		3	3	2834.507	
	8	F115W	F444W	DEEP8		6 1		3	3	3478.713	

Same V3 F
Same V3 F

No Parallel MSA Planned Aperture PA 23.49234 to 23.49234 Degrees (V3 245.0 to 245.0)

Pr	oposal 1181	1 - Observation	on 12 -	NIRCam-NIRS	oec galaxy as	sembly surve	ey - GOOD	S-N					
	Proposal 1181,	Observation 12: Me								Tue Jun 25	23:01:11 GMT 2019		
Observation	Diagnostic Statu	_											
≥		late: NIRSpec Multion											
) Sq	Coordinated Para	allel Template(s): NI	RCam Imag	ing									
Ō													
Diagnostics	(Visit 12:1) War	ning (Form): Overhe:	ads are prov	isional until the Visit Plar	nner has been run.								
l s	# N	ame		arget Coordinates		Targ. Coo	ord. Corrections		Miscellane	eous			
Targets	(16) T.	ARGET-OBSERVA		A: 12 36 31.0000 (189.12									
arc	1	2		ec: +62 15 15.00 (62.254)	17d)								
Ϊ́Ę				quinox: J2000									
Fixed	Comments: This target was generated automatically for MSA Observation 12 Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Primordial galaxies, Starburst galaxies] Extended=YES												
sition	NIRSpec MultiObject Spectroscopy	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID		
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312			
ţ.	NIRSpec Multi	Object Spectroscopy	y			NIRCar	n Imaging						
Template	TA Method: MS	ATA				Module:	ALL						
ΙĒ	Obtain Confirma	tion Images: No				Subarray	: FULL						
	Science Aperture	e: MSA Center											
Stars													
l ë													
e l													
Reference													
) ers	#					Dither 7	Гуре						
Dithers	1					NONE							
قا													

Proposal 1181 - Observation 12 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern	Groups	Int Integrations	/Exp Autocal	Total Dithe	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
leme	3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1	NONE	3	3	3545.1	
pecti	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1	NONE	3	3	3545.1	
 งั	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ွ	NIRCam Imaging	g Short Filter	Long Filter	Readout Pa	ttern (Groups/Int Int	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
בָּן בַּ	1	F115W	F444W	DEEP8	(5 1		3	3	3478.713	
Ĕ	2	F150W	F356W	DEEP8		5 1		3	3	2834.507	
릚	3	F200W	F277W	DEEP8		5 1		3	3	2834.507	
٦	4	F090W	F410M	DEEP8	(5 1		3	3	3478.713	
Į	5	F090W	F410M	DEEP8	(5 1		3	3	3478.713	
Spectral Elements	6	F200W	F277W	DEEP8		5 1		3	3	2834.507	
S	7	F150W	F356W	DEEP8		5 1		3	3	2834.507	
L	8	F115W	F444W	DEEP8		5 1		3	3	3478.713	

No Paralle MSA Plan
Same V3 I

No Parallel MSA Planned Aperture PA 23.49234 to 23.49234 Degrees (V3 245.0 to 245.0)

Pr	oposal 118°	1 - Observati	on 13 -	NIRCam-NIRS	pec galaxy as	sembly surve	ey - GOOD	DS-N			
		Observation 13: Me								Tue Jun 25	23:01:11 GMT 2019
Observation	Diagnostic State	us: Warning									
Įξ	Observing Temp	olate: NIRSpec Multi	Object Spec	troscopy							
Se	Coordinated Par	allel Template(s): NI	RCam Imag	ing							
١ŏ											
Diagnostics	(Visit 13:1) War	ning (Form): Overhe	ads are prov	isional until the Visit Plai	nner has been run.						
l s	# N	lame		arget Coordinates		Targ. Coo	ord. Corrections		Miscellane	eous	
Targets	(17) T	'ARGET-OBSERVA' 3		A: 12 36 31.0000 (189.12							
l g	1.	3		ec: +62 15 15.00 (62.254	17d)						
_				quinox: J2000							
Fixed	Comments: This Category=Galax Description=[Ad Extended=YES	xv		ally for MSA Observation ft galaxies, Primordial ga		cies]					
sition	NIRSpec MultiObject Spectroscopy	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
ţ.	NIRSpec Multi	Object Spectroscopy	y			NIRCar	n Imaging				
Template	TA Method: MS	SATA				Module:	ALL				
ΙĒ	Obtain Confirma	ation Images: No				Subarray	: FULL				
Ţ	Science Aperture	e: MSA Center									
Stars											
Reference											
ē											
]e											
Dithers	#					Dither 7	Гуре				
‡	1					NONE					
ق											

Proposal 1181 - Observation 13 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		/Int Integrations/E		Total Dithe	rs Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395M/F290LP	Configuration: p1c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ents	2	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
leme	3	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	4	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	16	1	NONE	3	3	3545.1	
pect	5	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	16	1	NONE	3	3	3545.1	
\$	6	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	8	G395M/F290LP	Configuration: p4c0	NRSIRS2	16	1	NONE	3	3	3545.1	
ဖွ	NIRCam Imaging	Short Filter	Long Filter	Readout Pa	ttern	Groups/Int Integ	ations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
Elements	1	F115W	F444W	DEEP8		6 1		3	3	3478.713	
ΙĔ	2	F150W	F356W	DEEP8		5 1		3	3	2834.507	
l a	3	F200W	F277W	DEEP8		5 1		3	3	2834.507	
<u></u>	4	F090W	F410M	DEEP8		6 1		3	3	3478.713	
Spectral	5	F090W	F410M	DEEP8		6 1		3	3	3478.713	
l ĕ	6	F200W	F277W	DEEP8		5 1		3	3	2834.507	
N	7	F150W	F356W	DEEP8		5 1		3	3	2834.507	
<u></u>	8	F115W	F444W	DEEP8		6 1		3	3	3478.713	

No Paralle MSA Plan
Same V3 I

No Parallel MSA Planned Aperture PA 23.49234 to 23.49234 Degrees (V3 245.0 to 245.0)

Proposal 1181, Observation 7: NIRCam+MIRI Medium Diagnostic Status: Warning Observing Template: NIRCam Imaging Coordinated Parallel Template(s): MIRI Imaging Coordinated Parallel Template(s): MIRI Imaging Coordinated Parallel Template(s): MIRI Imaging (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. Visit	Tue Jun 25 23:01:11 GMT 2019
Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.	3
Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.	;
Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.	3
Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.	5
Name Target Coordinates Targ. Coord. Corrections Miscellaneou	3
(11) GOODS-N-MEDIUM07 RA: 12 36 47.1200 (189.1963333d) Proper Motion RA: 0.0 mas/yr Dec: +62 16 14.54 (62.27071d) Proper Motion Dec: 0.0 mas/yr Equinox: J2000 Parallax: 0.0" Epoch of Position: 2000 Comments: Category=Unidentified Description=[High Latitude Field] Extended=YES	S
Epoch of Position: 2000 Comments: Category=Unidentified Description=[High Latitude Field] Extended=YES	
Epoch of Position: 2000 Comments: Category=Unidentified Description=[High Latitude Field] Extended=YES	
Epoch of Position: 2000 Comments: Category=Unidentified Description=[High Latitude Field] Extended=YES	
Epoch of Position: 2000 Comments: Category=Unidentified Description=[High Latitude Field] Extended=YES	
Description=[High Latitude Field] Extended=YES	
Description=[High Latitude Field] Extended=YES	
MikCam imaging Module: ALL Subarray: FULL Subarray: FULL	
Subarray: FULL	
Subarray. 1 CEE	
# Primary Dither Type Primary Dithers Dither Size Subpixel Positions Coordinated Parallel Subpixel Selector 1 INTRAMODULEX 3 1 2-POINT-WITH-MIR F1280W	Primes
NIRCam Imaging Short Filter Long Filter Readout Pattern Groups/Int Integrations/Exp Total Integrations Total Dithers Total D	al Exposure ETC Wkbk.Calc ne ID
1 F090W F444W DEEP8 6 1 6 695	7.427
2 F115W F410M DEEP8 6 1 6 695	7.427
3 F150W F277W MEDIUM8 9 1 6 6 566	9.015
	9.015
ရိုင်	
	Total Exposure ETC Wkbk.Calc
MIRI Imaging Filter Readout Pattern Groups/Int Integrations/Exp Exposures/Dith Dither Total Dithers Total Integrations	Time ID VKDK.Caic
1 F1280W SLOW 24 2 1 6 12	6880.297
[W] 2 F1200W GLOW 24 24 25 15	6880.297
2 F1280W SLOW 24 2 1 6 12	
2	5733.581
<u> </u>	

Proposal 1181 - Observation 7 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

Aperture PA Range 239.887474 to 249.887474 Degrees (V. No Parallel

14 After 7 by 60 Days to 500 Days
15 After 7 by 60 Days to 500 Days
16 After 7 by 60 Days to 500 Days
17 After 7 by 60 Days to 500 Days
18 After 7 by 60 Days to 500 Days
19 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
11 After 7 by 60 Days to 500 Days
12 After 7 by 60 Days to 500 Days
13 After 7 by 60 Days to 500 Days
14 After 7 by 60 Days to 500 Days
15 After 7 by 60 Days to 500 Days
16 After 7 by 60 Days to 500 Days
17 After 7 by 60 Days to 500 Days
18 After 7 by 60 Days to 500 Days
19 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
10 After 7 by 60 Days to 500 Days
11 After 7 by 60 Days to 500 Days
12 After 7 by 60 Days to 500 Days
13 After 7 by 60 Days to 500 Days
14 After 7 by 60 Days to 500 Days
15 After 7 by 60 Days to 500 Days
16 After 7 by 60 Days to 500 Days
17 After 7 by 60 Days to 500 Days
18 After 7 by 60 Days to 500 Days
19 After 7 by 60 Days to 500 Days
20 After 7 by 60 Days to 500 Days
21 After 7 by 60 Days to 500 Days
22 After 7 by 60 Days to 500 Days
23 After 7 by 60 Days to 500 Days
24 After 7 by 60 Days to 500 Days
25 After 7 by 60 Days to 500 Days
26 After 7 by 60 Days to 500 Days
26 After 7 by 60 Days to 500 Days
27 After 7 by 60 Days to 500 Days
28 After 7 by 60 Days to 500 Days
28 After 7 by 60 Days
28 After 7 by 60 Days
29 After 7 by 60 Days
20 Aperture PA Range 239.887474 to 249.887474 Degrees (V3 240.0 to 250.0) No Parallel

Pr	opos	sal 1181	1 - Observati	ion 14	- NIRCam-NIRS	pec galaxy as	sembly surv	ey - GOOD	DS-N			
	Prop	posal 1181,	Observation 14: Mo	edium/JW	ST F1						Tue Jun 25	23:01:11 GMT 2019
Observation	Diag	-	us: Warning									
}	Obse		late: NIRSpec Multi									
Ž	Coor	rdinated Para	allel Template(s): N	IRCam Im	aging							
_	_											
Diagnostics	(Visi	it 14:1) War	ning (Form): Overhe	eads are pr	ovisional until the Visit Pla	nner has been run.						
t	<u> </u>											
֟֝֟֝֟֟֝֟֟֟֝֟֟֟												
<u>.</u>	[
Н	#	N	ame		Target Coordinates		Targ. Co	ord. Corrections		Miscellane	eous	
Targets	(18)	T	ARGET-OBSERVA		RA: 12 36 31.0000 (189.12	291667d)	8					
2	ກ	14	4		Dec: +62 15 15.00 (62.254	17d)						
۱Ë	<u>:</u>				Equinox: J2000							
Fixed	Com	ments: This gory=Galax		d automat	ically for MSA Observation	14						
Įΰ	Desc	cription=[Ac	y ctive galactic nuclei,	High-reds	hift galaxies, Primordial g	alaxies, Starburst galax	xies]					
F	_		Reference Star			MSA			I44:/F	T-4-1	T-4-1 F	ETC Wkbk.Calc
i j	Mult Spec	Spec tiObject ctroscopy	Bin	Target	rmer	Configuration	Readout Patterr	i Groups/int	Integrations/Exp	Integrations	Total Exposure Time	ID
Acquisition	1			SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
-		Spec Multi(Object Spectroscop	y			NIRCa	m Imaging				
Template	TAN	Method: MS	ATA				Module	e: ALL				
<u>ا</u>	Obta		tion Images: No				Subarra	ıy: FULL				
_		nce Aperture	e: MSA Center									
Stars	2											
į	5											
9	3											
9	5											
Reference	[]											
_												
Dithers	#						Dither	Туре				
1 4	1						NONE					
ع	5											

Proposal 1181 - Observation 14 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		XY ASSEMDIY SU Int Integrations/	Exp Autocal	Total Dithe	rs Total Integration	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	2	G395M/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	3	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	4	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
<u>ئ</u>	5	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	6	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	13	1	NONE	3	3	2888.6	
E	7	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
ctral	8	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spe	9	G395M/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	10	G395H/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	11	G395H/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	12	G395M/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	13	G235M/F170LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	14	G140M/F070LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	15	PRISM/CLEAR	Configuration: p6c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	NIRCam Imagin	g Short Filter	Long Filter	Readout Par	ttern G	Froups/Int Into	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	DEEP8	5	1		3	3	2834.507	
	2	F115W	F444W	DEEP8	5	1		3	3	2834.507	
١	3	F115W	F444W	DEEP8	5	1		3	3	2834.507	
l ts	4	F090W	F410M	DEEP8	5	1		3	3	2834.507	
Ē	5	F090W	F410M	DEEP8	5	1		3	3	2834.507	
Elements	6	F090W	F410M	DEEP8	5	1		3	3	2834.507	
	7	F070W	F444W	DEEP8	5	1		3	3	2834.507	
tral	8	F115W	F356W	DEEP8	5	1		3	3	2834.507	
ec	9	F150W	F277W	DEEP8	5			3	3	2834.507	
Spectr	10	F200W	F335M	DEEP8	5			3	3	2834.507	
	11	F200W	F335M	DEEP8	5	1		3	3	2834.507	
	12	F150W	F277W	DEEP8	5			3	3	2834.507	
	13	F115W	F356W	DEEP8	5			3	3	2834.507	
	14	F090W	F444W	DEEP8	5			3	3	2834.507	
	15	F070W	F410M	DEEP8	5	1		3	3	2834.507	

No Parallel On Hold NIRCam pre-imaging in observations 7, 8, 9, 10, 11, 12, 13. Observe > 60 days after. MSA Planned Aperture PA 293.49234 to 293.49234 Degrees (V3 155.0 to 155.0)

14 After 7 by 60 Days to 500 Days Same Aperture PA 14, 15, 16, 17

Р	rop	osal 1181	- Observation	on 15	- NIRCam-NIRS	oec galaxy as	sembly surv	ey - GOOD	S-N			
			Observation 15: Me								Tue Jun 25	23:01:11 GMT 2019
Observation	וַ בַּ	Diagnostic Statu	s: Warning									
	<u> </u>		late: NIRSpec Multi0									
١		Coordinated Para	llel Template(s): NI	RCam Ima	aging							
Z	5											
[3 ((Visit 15:1) Warr	ning (Form): Overhea	ads are pro	ovisional until the Visit Plan	nner has been run.						
20ita on pei O												
2	2											
2.	2)											
۲	۲											
۽ ا	2 1		ADCET ODGEDVA		Target Coordinates	01((74)	Targ. Co	ord. Corrections		Miscellane	ous	
Targete	ן מ	(19) 12	ARGET-OBSERVA i		RA: 12 36 31.0000 (189.12 Dec: +62 15 15.00 (62.254)							
عُ ا	<u> </u>				Equinox: J2000	170)						
13	ا ج	Comments: This	taraet was generated		cally for MSA Observation	15						
207	4	Category=Galax	v				. ,					
Ľ	-	Description=[Ac Extended=YES	tive galactic nuclei, i	High-reas	hift galaxies, Primordial ga	laxies, Starburst galax	aesj					
[5	5]	NIRSpec MultiObject	Reference Star Bin	Target	Filter	MSA Configuration	Readout Patteri	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1 :		Spectroscopy	Dilli 			Configuration				Integrations	Time	110
Acitising A	<u> </u>	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
{	2					Comig						
3	וַ נָּי	NIRSpec Multi(Object Spectroscopy	y			NIRCa	ım Imaging				
Tomplato	<u>5</u>	ΓA Method: MS	ATA				Module	e: ALL				
[[Obtain Confirma	-				Subarra	ıy: FULL				
_		Science Aperture	: MSA Center									
O.toro	2											
ď	5											
8	ן											
Doforonco	5											
6	2											
ě	<u>,</u>	#				·	Dither	Туре		·		
Dithore	2	1					NONE					
غ	5											

Proposal 1181 - Observation 15 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		XY ASSEMDIY SI Int Integrations	Exp Autocal	Total Dithe	rs Total Integration	Total Exposure Time	ETC Wkbk.Calc
	1	G395H/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	2	G395M/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	3	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	4	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
၂ မွ	5	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	6	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
ctral	8	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spe	9	G395M/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	10	G395H/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	11	G395H/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	12	G395M/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	13	G235M/F170LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	14	G140M/F070LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	15	PRISM/CLEAR	Configuration: p6c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	NIRCam Imaging	g Short Filter	Long Filter	Readout Pa	ttern G	Froups/Int Int	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	DEEP8	5	1		3	3	2834.507	
	2	F115W	F444W	DEEP8	5	1		3	3	2834.507	
	3	F115W	F444W	DEEP8	5	1		3	3	2834.507	
£	4	F090W	F410M	DEEP8	5	1		3	3	2834.507	
l ē	5	F090W	F410M	DEEP8	5	1		3	3	2834.507	
Elements	6	F090W	F410M	DEEP8	5	1		3	3	2834.507	
	7	F070W	F444W	DEEP8	5	1		3	3	2834.507	
<u>ra</u>	8	F115W	F356W	DEEP8	5	1		3	3	2834.507	
ပ္ပ	9	F150W	F277W	DEEP8	5	1		3	3	2834.507	
Spectr	10	F200W	F335M	DEEP8	5	1		3	3	2834.507	
"	11	F200W	F335M	DEEP8	5	1		3	3	2834.507	
	12	F150W	F277W	DEEP8	5	1		3	3	2834.507	
	13	F115W	F356W	DEEP8	5	1		3	3	2834.507	
	14	F090W	F444W	DEEP8	5	1		3	3	2834.507	
	15	F070W	F410M	DEEP8	5	1		3	3	2834.507	

No Parallel On Hold NIRCam pre-imaging in observations 7, 8, 9, 10, 11, 12, 13. Observe > 60 days after. MSA Planned Aperture PA 293.49234 to 293.49234 Degrees (V3 155.0 to 155.0)

15 After 7 by 60 Days to 500 Days Same Aperture PA 14, 15, 16, 17

Pro	oposal 1181	- Observati	on 16 -	· NIRCam-NIRS	Spec galaxy as	sembly sur	vey - GOO	DS-N			
		Observation 16: Me								Tue Jun 25	23:01:11 GMT 2019
Observation	Diagnostic Statu	s: Warning									
Įĕ	Observing Temp	late: NIRSpec Multi	Object Spe	ctroscopy							
Se	Coordinated Para	allel Template(s): NI	RCam Ima	ging							
١ö											
Diagnostics	(Visit 16:1) Warı	ning (Form): Overhe	eads are pro	visional until the Visit Pla	anner has been run.						
Diag	# N	ame	7	Farget Coordinates		Targ (oord. Corrections		Miscellane	Palis	
ţ		ARGET-OBSERVA		RA: 12 36 31.0000 (189.1	201667d)	Taig. C	oora. Corrections		Miscellanc	ous	
<u>8</u>	16			Dec: +62 15 15.00 (62.25)							
Targets				Equinox: J2000	417d)						
Į.	Comments: This	target was generated		cally for MSA Observation	n 16						
Fixed	Category=Galax	v				. ,					
L	Extended=YES	tive galactic nuclei,	High-reash	nift galaxies, Primordial g	galaxies, Starburst gala:	xiesj					
sition	NIRSpec MultiObject Spectroscopy	Reference Star Bin	Target	Filter	MSA Configuration	Readout Patte	n Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
Acquisition	1		SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
ţ.	NIRSpec Multi(Object Spectroscopy	y			NIRO	am Imaging				
Template	TA Method: MS	ATA				Modu	le: ALL				
١٤	Obtain Confirma	tion Images: No				Subar	ray: FULL				
	Science Aperture	: MSA Center									
Stars											
Sta											
ė											
l ü											
ē											
Reference											
δ	#					Dithe	г Туре				
her	1					NON					
Dithers											

Proposal 1181 - Observation 16 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		XY ASSEMDIV SU Int Integrations/	Exp Autocal	Total Dither	rs Total Integration	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	2	G395M/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	3	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	4	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
l Si	5	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	6	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	13	1	NONE	3	3	2888.6	
EleI	7	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
ctral	8	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spe	9	G395M/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	10	G395H/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	11	G395H/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	12	G395M/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	13	G235M/F170LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	14	G140M/F070LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
L	15	PRISM/CLEAR	Configuration: p6c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	NIRCam Imagin	g Short Filter	Long Filter	Readout Pa	ttern G	roups/Int Inte	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	DEEP8	5	1		3	3	2834.507	
	2	F115W	F444W	DEEP8	5	1		3	3	2834.507	
	3	F115W	F444W	DEEP8	5	1		3	3	2834.507	
T\$	4	F090W	F410M	DEEP8	5	1		3	3	2834.507	
l ē	5	F090W	F410M	DEEP8	5	1		3	3	2834.507	
Elements	6	F090W	F410M	DEEP8	5	1		3	3	2834.507	
	7	F070W	F444W	DEEP8	5	1		3	3	2834.507	
tral	8	F115W	F356W	DEEP8	5	1		3	3	2834.507	
ec	9	F150W	F277W	DEEP8	5			3	3	2834.507	
Spectr	10	F200W	F335M	DEEP8	5			3	3	2834.507	
	11	F200W	F335M	DEEP8	5	1		3	3	2834.507	
	12	F150W	F277W	DEEP8	5			3	3	2834.507	
	13	F115W	F356W	DEEP8	5			3	3	2834.507	
1	14	F090W	F444W	DEEP8	5			3	3	2834.507	
	15	F070W	F410M	DEEP8	5	1		3	3	2834.507	

No Parallel On Hold NIRCam pre-imaging in observations 7, 8, 9, 10, 11, 12, 13. Observe > 60 days after. MSA Planned Aperture PA 293.49234 to 293.49234 Degrees (V3 155.0 to 155.0)

16 After 7 by 60 Days to 500 Days Same Aperture PA 14, 15, 16, 17

Pı	rop	osal 1181	l - Observati	on 17	- NIRCam-NIRS	oec galaxy as	sembly surv	ey - GOOD	DS-N			
	F	Proposal 1181, 0	Observation 17: Me	edium/JW	ST F4						Tue Jun 25	23:01:11 GMT 2019
Observation		Diagnostic Statu	_									
}	<u> </u>		late: NIRSpec Multi		**							
٤		Coordinated Para	allel Template(s): NI	RCam Ima	aging							
_	_											
Diagnostics	3	Visit 17:1) Warı	ning (Form): Overhe	ads are pro	ovisional until the Visit Plan	nner has been run.						
1 7	5											
Ì	5											
<u> </u>	2											
Н	4	ŧ N:	ame		Target Coordinates		Targ. Co	ord. Corrections		Miscellane	eous	
Targets			ARGET-OBSERVA	TION-	RA: 12 36 31.0000 (189.12	91667d)						
2	ກ 	17	7		Dec: +62 15 15.00 (62.254)	17d)						
ΙË	-				Equinox: J2000							
Fixed		Comments: This Category=Galax		d automati	cally for MSA Observation	17						
Įΰ		Description=[Ac	tive galactic nuclei,	High-reds	hift galaxies, Primordial ga	laxies, Starburst galax	xies]					
H	_	NIRSpec	Reference Star	Target		MSA	Readout Pattern	Crouns/Int	Integrations/Exp	Total	Total Exposure	ETC Wkbk.Calc
] <u>:</u>		MultiObject Spectroscopy	Bin	Target	ritter	Configuration	Readout 1 atterr	Groups/Int	integrations/Exp	Integrations	Time	ID
Acquisition				SAME	F140X	Auto Acq MSA Config	NRS	3	1	4	558.312	
\vdash	-	NIRSpec Multi(Object Spectroscopy	y			NIRCa	m Imaging				
Template	T 2	ΓA Method: MS.	ATA				Module	:: ALL				
1 5			tion Images: No				Subarra	y: FULL				
_		Science Aperture	: MSA Center									
Stars	2											
Ü	5											
٥	2											
1 2	5											
Reference	5											
_												
Ž,	2 #	<u> </u>					Dither	Туре				
Dithers							NONE					
عا	1											

Proposal 1181 - Observation 17 - NIRCam-NIRSpec galaxy assembly survey - GOODS-N

	NIRSpec MultiObject Spectroscopy	Grating/Filter	MSA Configuration	Readout Pattern		XY ASSEMDIY SU Int Integrations/	Exp Autocal	Total Dither	rs Total Integration	Total Exposure s Time	ETC Wkbk.Calc
	1	G395H/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	2	G395M/F290LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	3	G235M/F170LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	4	G140M/F070LP	Configuration: p1c0	NRSIRS2	13	1	NONE	3	3	2888.6	
၂ မွ	5	PRISM/CLEAR	Configuration: p2c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spectral Elements	6	PRISM/CLEAR	Configuration: p3c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	7	G140M/F070LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
ctral	8	G235M/F170LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
Spe	9	G395M/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	10	G395H/F290LP	Configuration: p4c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	11	G395H/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	12	G395M/F290LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	13	G235M/F170LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	14	G140M/F070LP	Configuration: p5c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	15	PRISM/CLEAR	Configuration: p6c0	NRSIRS2	13	1	NONE	3	3	2888.6	
	NIRCam Imagin	g Short Filter	Long Filter	Readout Pa	ttern G	Groups/Int Into	egrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	DEEP8	5	1		3	3	2834.507	
	2	F115W	F444W	DEEP8	5	1		3	3	2834.507	
١.,	3	F115W	F444W	DEEP8	5	1		3	3	2834.507	
¥	4	F090W	F410M	DEEP8	5	1		3	3	2834.507	
l ē	5	F090W	F410M	DEEP8	5	1		3	3	2834.507	
Elements	6	F090W	F410M	DEEP8	5	1		3	3	2834.507	
	7	F070W	F444W	DEEP8	5	1		3	3	2834.507	
tra	8	F115W	F356W	DEEP8	5	1		3	3	2834.507	
eci	9	F150W	F277W	DEEP8	5			3	3	2834.507	
Spectr	10	F200W	F335M	DEEP8	5			3	3	2834.507	
1	11	F200W	F335M	DEEP8	5	1		3	3	2834.507	
	12	F150W	F277W	DEEP8	5			3	3	2834.507	
	13	F115W	F356W	DEEP8	5			3	3	2834.507	
	14	F090W	F444W	DEEP8	5			3	3	2834.507	
	15	F070W	F410M	DEEP8	5	1		3	3	2834.507	

No Parallel On Hold NIRCam pre-imaging in observations 7, 8, 9, 10, 11, 12, 13. Observe > 60 days after. MSA Planned Aperture PA 293.49234 to 293.49234 Degrees (V3 155.0 to 155.0)

17 After 7 by 60 Days to 500 Days Same Aperture PA 14, 15, 16, 17