James Webb Space Telescope:

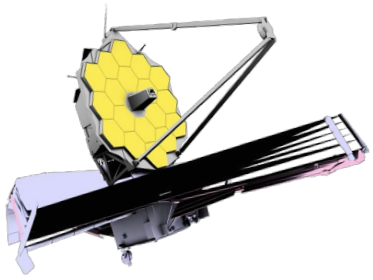
Cheat Sheet

Standard JWST Imaging Modes

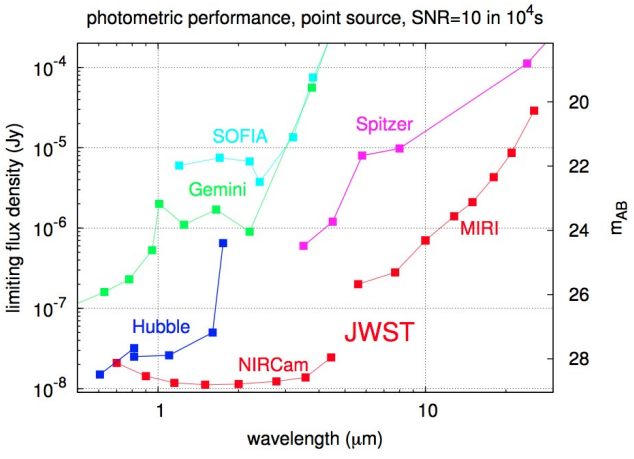
Mode	Instrument	Wave-length (microns)	Pixel Scale (arcsec)	Field of View
Imaging	NIRCam	0.6 – 2.3	0.032	2.2 x 4.4'
	NIRCam	2.4 – 5.0	0.065	2.2 x 4.4'
	NIRISS	0.9 – 5.0	0.065	2.2 x 2.2'
	MIRI	5.0 – 28	0.11	1.23 x 1.88'
Aperture Mask Interferometry	NIRISS	3.8 – 4.8	0.065	2.2 x 2.2'
Coronography	NIRCam	0.6 – 2.3	0.032	20 x 20''
	NIRCam	2.4 – 5.0	0.065	20 x 20''
	MIRI	10.65	0.11	24 x 24''
	MIRI	11.4	0.11	24 x 24''
	MIRI	15.5	0.11	24 x 24''
	MIRI	23	0.11	30 x 30''

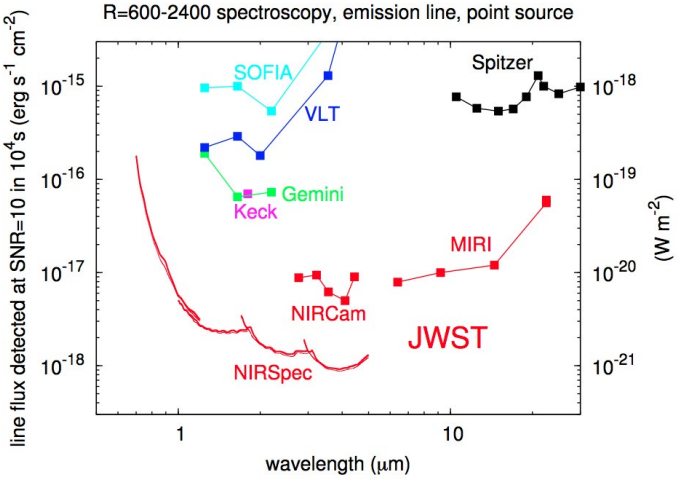
JWST Spectroscopy Modes

Mode	Instrument	Wavelength (microns)	Resolving Power ($\lambda/\Delta\lambda$)	Field of View
Slitless Spectroscopy	NIRISS	1.0 – 2.5	150	2.2 x 2.2'
	NIRISS	0.6 – 2.5	700	single object
	NIRCam	2.4 – 5.0	2000	2.2 x 2.2'
Multi-Object Spectroscopy	NIRSpec	0.6 – 5.0	100, 1000, 2700	3.4 x 3.4' with 250k 0.2 x 0.5'' microshutters
Single Slit Spectroscopy	NIRSpec	0.6 – 5.0	100, 1000, 2700	slits with 0.4 x 3.8'' 0.2 x 3.3'' 1.6 x 1.6''
	MIRI	5.0 – ~14.0	~100 at 7.5 microns	0.6 x 5.5'' slit
IFU Spectroscopy	NIRSpec	0.6 – 5.0	100, 1000, 2700	3.0 x 3.0''
	MIRI	5.0 – 7.7	3500	3.0 x 3.9''
	MIRI	7.7 – 11.9	2800	3.5 x 4.4''
	MIRI	11.9 – 18.3	2700	5.2 x 6.2''
	MIRI	18.3 – 28.8	2200	6.7 x 7.7''



Performance





Major Milestones

2018 integration between observatory and sunshield, shipping to Kourou, and LAUNCH

2017 observatory testing: a comprehensive test at JSC of the integrated telescope and instruments

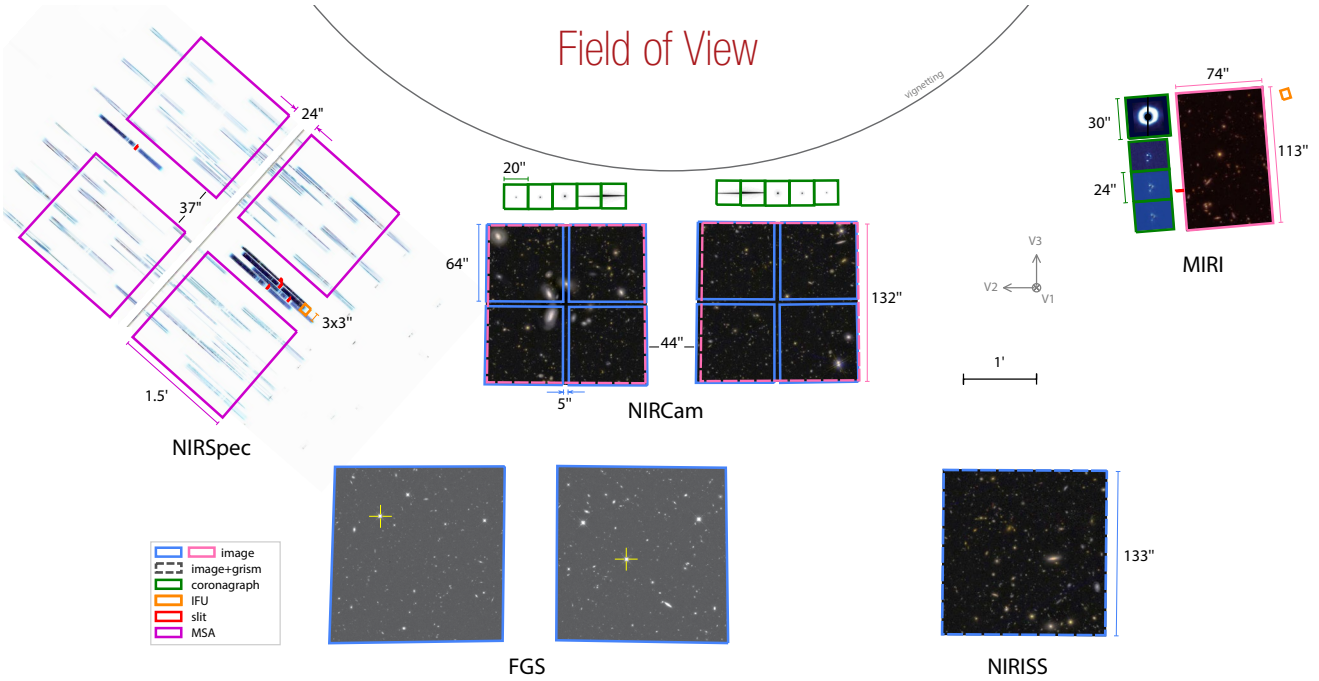
2016 observatory assembly: 1.) instruments connected to mirrors and 2.) spacecraft connected to sunshield

2015 making the mirror: the 18-segmented 21 foot primary, secondary, and aft mirrors start to become one unit

2014 manufacturing the spacecraft and next cryogenic tests

2013 integration of science instruments & first cryogenic tests

Field of View



Science Tools and Status Updates

1) JWST exposure time calculator — jwst.etc.stsci.edu
2) JWST general science and technical capabilities — jwst.stsci.edu
3) JWST milestone status and recent accomplishments — http://www.jwst.nasa.gov/recentaccomplish.html
4) Day to day updates on JWST status — follow #JWST on twitter
5) JWST Early Release Program Call for Proposals – May 2017
6) JWST Cycle 1 Call for Proposals – Nov 2017

https://jwst.stsci.edu/science-planning/calls-for-proposals-and-policy/early-release-science-program