

## Table of estimated file sizes for GOES-R products

Note: These estimates are based on synthetic, pre-launch test data. Product file sizes containing on-orbit data may differ.  
This table will be updated to reflect on-orbit data volumes following the post-launch checkout phase.

Instrument	Product Level	Product Name	Product Short Name	ABI Scene	ABI Mode	Channel	Pixel Size [km]	Average File Size [MB]	Typical maximum size [MB]	24-hr total for one satellite (ABI Mode 3) [MB]
ABI	Level-1b (L1b)	ABI L1b Radiances	RadM	Mesoscale	3	2 (0.64 μm)	0.5	1.7	6.0	5,587
					3	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	0.4	1.5	1,427
					3	4, 6 (1.38, 2.25 μm)	2	0.2	0.4	483
					3	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	0.3	0.4	955
			RadC	CONUS	3, 4	2 (0.64 μm)	0.5	21.4	50.0	6,760
					3, 4	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	4.9	12.0	1,546
					3, 4	4, 6 (1.38, 2.25 μm)	2	1.3	3.0	406
					3, 4	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	3.3	5.0	1,140
			RadF	Full Disk	3, 4	2 (0.64 μm)	0.5	110.3	250.0	11,017
					3, 4	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	24.4	60.0	2,416
					3, 4	4, 6 (1.38, 2.25 μm)	2	6.4	15.0	633
					3, 4	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	21.6	25.0	2,070
	Level-2 (L2)	Cloud & Moisture Imagery	CMIPM	Mesoscale	3	2 (0.64 μm)	0.5	1.5	6.0	4,715
					3	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	0.4	1.2	1,342
					3	4, 6 (1.38, 2.25 μm)	2	0.1	0.4	401
					3	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	0.3	0.4	913
			CMIPC	CONUS	3, 4	2 (0.64 μm)	0.5	17.5	50.0	5,364
					3, 4	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	4.2	12.0	1,322
					3, 4	4, 6 (1.38, 2.25 μm)	2	1.0	3.0	298
					3, 4	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	3.8	5.0	1,078
			CMIPF	Full Disk	3, 4	2 (0.64 μm)	0.5	90.0	250.0	8,711
					3, 4	1, 3, 5 (0.47, 0.86, 1.61 μm)	1	20.4	50.0	2,022
					3, 4	4, 6 (1.38, 2.25 μm)	2	4.7	12.0	461
					3, 4	7-16 (3.9, 6.19, 6.95, 7.34, 8.50, 9.61, 10.35, 11.20, 12.30, 13.30 μm)	2	20.5	25.0	1,912
		Cloud & Moisture Imagery: Multi-Band Format	MCMIPM	Mesoscale	3	all	2	3.0	5.0	8,521
			MCMIPC	CONUS	3, 4	all	2	37.5	50.0	10,813
			MCMIPF	Full Disk	3, 4	all	2	195.8	250.0	18,176
		all other L2 products	varies by product	Mesoscale				0.1 - 2	5.0	varies by product
				CONUS	3, 4	varies by product	varies by product	1 - 10	20.0	
				Full Disk				1 - 40	100.0	
GLM	L2	Lightning Detection: Events, Flashes and Groups	LCFA	n/a	n/a			3.2	5.0	1,066
EXIS	L1b	Solar Flux: EUV	SFEU	n/a	n/a			0.2	0.3	1,291
		Solar Flux: X-Ray	SFXR	n/a	n/a			0.3	0.3	1,440
MAG	L1b	Geomagnetic Field	GEOF	n/a	n/a			0.4	0.4	1,046
SEISS	L1b	Energetic Heavy Ions	EHIS	n/a	n/a			0.3	0.3	148
		Mag. Electrons & Protons: Low Energy	MPSL	n/a	n/a			1.0	1.0	5,760
		Mag. Electrons & Protons: Med & High	MPSH	n/a	n/a			0.4	0.5	2,460
		Solar & Galactic Protons	SGPS	n/a	n/a			0.2	0.3	657
SUVI	L1b	Solar Imagery	Fe093	n/a	n/a	Fe XVIII [93.9 Å]		4.8	5.0	3,456
			Fe131	n/a	n/a	Fe XX [131.2 Å]		4.8	5.0	3,456
			Fe171	n/a	n/a	Fe IX [171.1 Å]		4.8	5.0	3,456
			Fe195	n/a	n/a	Fe XII [195.1 Å]		4.8	5.0	3,456
			Fe284	n/a	n/a	Fe XV [284.3 Å]		4.8	5.0	3,456
			He303	n/a	n/a	He II [303.8 Å]		4.8	5.0	3,456