

Satellite Name :USGS Landsat 9 Level 2, Collection 2,Tier 1

Satellite Name	Bands Name	Resolution / Pixel Size (m)	Wavelength	Band Description	Reference
USGS Landsat 9 Level 2, Collection 2, Tier 1	SR_B1	30	0.435-0.451 μm	Ultra blue, coastal aerosol	Website Link
	SR_B2		0.452-0.512 μm	Blue	
	SR_B3		0.533-0.590 μm	Green	
	SR_B4		0.636-0.673 μm	Red	
	SR_B5		0.851-0.879 μm	NIR	
	SR_B6		1.566-1.651 μm	SWIR 1	
	SR_B7		2.107-2.294 μm	SWIR 2	

Satellite Name : Harmonized Sentinel-2 MSI: MultiSpectral Instrument, Level-2A

Satellite Name	Bands Name	Resolution / Pixel Size (m)	Wavelength	Band Description	Reference
Harmonized Sentinel-2 MSI: MultiSpectral Instrument, Level-2A	B1	60	443.9nm / 442.3nm	Aerosols	Website Link
	B2	10	496.6nm / 492.1nm	Blue	
	B3	10	560nm / 559nm	Green	
	B4	10	664.5nm / 665nm	Red	
	B5	20	703.9nm / 703.8nm	Red Edge 1	
	B6	20	740.2nm / 739.1nm	Red Edge 2	
	B7	20	782.5nm / 779.7nm	Red Edge 3	
	B8	10	835.1nm / 833nm	NIR	
	B8A	20	864.8nm / 864nm	Red Edge 4	
	B9	60	945nm / 943.2nm	Water vapor	
	B11	20	1613.7nm / 1610.4nm	SWIR 1	
	B12	20	2202.4nm / 2185.7nm	SWIR 2	

Satellite Name : MODIS

Satellite Name	Primary Use	Band	Bandwidth	Spectral Radiance	Reference
MODIS	Land/Cloud/Aerosols Boundaries	1	620 – 670 nm	21.8	Website link
		2	841 – 876 nm	24.7	
		3	459 – 479 nm	35.3	
		4	545 – 565 nm	29	
		5	1230 – 1250 nm	5.4	
		6	1628 – 1652 nm	7.3	
		7	2105 - 2155 nm	1	
	Ocean Color/Phytoplankton/Biogeochemistry	8	405 - 420 nm	44.9	
		9	438 - 448 nm	41.9	
		10	483 - 493 nm	32.1	
		11	526 - 536 nm	27.9	
		12	546 - 556 nm	21	
		13	662 - 672 nm	9.5	
		14	673 - 683 nm	8.7	
		15	743 - 753 nm	10.2	
		16	862 - 877 nm	6.2	
	Atmospheric Water Vapor	17	890 - 920 nm	10	
		18	931 - 941 nm	3.6	
		19	915 - 965 nm	15	
	Surface/Cloud Temperature	20	3.660 - 3.840 μm	0.45(300K)	
		21	3.929 - 3.989 μm	2.38(335K)	
		22	3.929 - 3.989 μm	0.67(300K)	
		23	4.020 - 4.080 μm	0.79(300K)	
	Atmospheric Temperature	24	4.433 - 4.498 μm	0.17(250K)	
		25	4.482 - 4.549 μm	0.59(275K)	
	Cirrus Clouds Water Vapor	26	1.360 - 1.390 μm	6	
		27	6.535 - 6.895 μm	1.16(240K)	
		28	7.175 - 7.475 μm	2.18(250K)	
	Cloud Properties	29	8.400 - 8.700 μm	9.58(300K)	
	Ozone	30	9.580 - 9.880 μm	3.69(250K)	
	Surface/Cloud Temperature	31	10.780 - 11.280 μm	9.55(300K)	
		32	11.770 - 12.270 μm	8.94(300K)	
	Cloud Top Altitude	33	13.185 - 13.485 μm	4.52(260K)	
		34	13.485 - 13.785 μm	3.76(250K)	
		35	13.785 - 14.085 μm	3.11(240K)	
		36	14.085 - 14.385 μm	2.08(220K)	