

Satellite name, Bands, wavelength, description, pixel size

Satellite Name	Bands	Wavelength (nm)	Description	Pixel Size (meter)
MODIS (Aqua)	band1 (red) – 645 band2 (green) – 547 band4 (blue) – 446 band7 (SWIR) - 2130	620 - 700 (red) 480 - 560 (green) 400 - 450 (blue) 2030 - 2230 (SWIR)	Provides global coverage for land, ocean, and atmosphere studies.	250
Landsat 8 (OLI)	band1 (coastal aerosol) – 430 band2 (blue) – 482 band3 (green) – 560 band4 (red) – 655 band5 (NIR) – 850 band6 (SWIR1) – 1600 band7 (SWIR2) – 2200 band8 (panchromatic) – 600	400 - 470 (coastal aerosol) 450 - 510 (blue) 530 - 590 (green) 630 - 690 (red) 810 - 890 (NIR) 1560 - 1660 (SWIR1) 2100 - 2300 (SWIR2) 500 – 680 (panchromatic)	Offers high-resolution multispectral data for land cover and change detection studies.	30 (multispectral) 15 (panchromatic)
Sentinel-2A (MSI)	band2 (blue) – 492 band3 (green) – 560 band4 (red) – 665 band7 (NIR) – 783 band8 (NIR) – 865 band11 (SWIR) – 1610 band12 (SWIR) - 2190	450 - 510 (blue) 540 - 570 (green) 630 - 680 (red) 700 - 800 (NIR) 840 - 870 (NIR) 1560 - 1660 (SWIR) 2100 - 2280 (SWIR)	Provides high-resolution multispectral data for land cover and vegetation monitoring.	10 (multispectral) 20 (panchromatic)