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SATELLITE	SENSORS or INSTRUMENTS ONBOARD	SPATIAL RESOLUTION	SPECTRAL RESOLUTION
QuickBird	QuickBird	Panchromatic: 61 cm Multispectral: 2.44 m	Panchromatic: Black & White: 445 to 900 nm. Multispectral:Blue: 450 to 520 nm Green: 520 to 600 nm Red: 630 to 690 nm Near-IR: 760 to 900 nm
Ikonos	Ikonos	Panchromatic:1 m Multispectral: 4 m	Panchromatic Band: 0.45 - 0.90µm. Band 1: 0.45 - 0.53µm (blue). Band 2: 0.52 - 0.61µm (green). Band 3: 0.64 - 0.72µm (red). Band 4: 0.77 - 0.88µm (near infra-red).
SPOT 1, 2 ,3 (Satellite Pour l'Observation de la Terre)	SPOT 1 SPOT 2 SPOT 3	Panchromatic:10 m Multispectral: 20 m	Panchromatic: (0.50 - 0.73 µm) B1 : green (0.50 - 0.59 µm) B2 : red (0.61 - 0.68 µm) B3 : near-infra-red (0.78 - 0.89 µm)
SPOT 4, 5 (Satellite Pour l'Observation de la Terre)	SPOT 4 SPOT 5	<p>SPOT 4: Monospectral: 10 m Multispectral: 20 m</p> <p>SPOT 5: Panchromatic: 2.5 - 5 m Multispectral: Bands 1-3: 10 m Band 4: 20 m</p>	<p>SPOT 4: Monospectral: (0.61 - 0.68 µm) B1 : green (0.50 - 0.59 µm) B2 : red (0.61 - 0.68 µm) B3 : near-infra-red (0.78 - 0.89 µm) B4 : short-wave infrared (SWIR) (1.58 - 1.75 µm)</p> <p>SPOT 5: Panchromatic: (0.48 - 0.71 µm) B1 : green (0.50 - 0.59 µm) B2 : red (0.61 - 0.68 µm) B3 : near-infra-red (0.78 - 0.89 µm) B4 : short-wave infrared (SWIR) (1.58 - 1.75 µm)</p>
Landsat 7	Enhanced Thematic Mapper (ETM+)	Panchromatic: 15m Bands 1, 2, 3, 4, 5, 7: 30m Bands: 6a, 6b: 60m	Panchromatic: (0.52 - 0.90µm) Band 1: (0.45 - 0.52µm) Band 2: (0.53 - 0.61µm) Band 3: (0.63 - 0.69µm) Band 4: (0.75 - 0.90µm) Band 5: (1.55 - 1.75µm) Band 6a: (10.4 - 12.5µm) Band 6b: (10.4 - 12.5µm) Band 7: (2.09 - 2.35µm)
GOES (Geostationary Operational Environmental Satellite)	GOES Imager 12	Band 1: 1km Bands 2 - 5: 4km	Band 1: 0.52 - 0.72 (visible) Band 2: 3.78 - 4.03µm (shortwave infra-red) Band 3: 6.47 - 7.02µm (water vapor) Band 4: 10.2 - 11.2µm (longwave infra-red) Band 5: 11.5 - 12.5µm (thermal infra-red)

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SATELLITE	ORBIT	SWATH WIDTH OR FIELD OF VIEW AREA	LAUNCH DATE	ORGANIZATION(S) INVOLVED
QuickBird	Altitude: 450 km Orbit type:sun-synchronous	16.5 km	Oct-01	Kodak Digital Globe
Ikonos	Altitude:681 km Orbit type: Near-polar, sun-synchronous.	11 x 11 km	Sep-99	Space Imaging
SPOT 1, 2 ,3 (Satellite Pour l'Observation de la Terre)	Altitude: 832km Orbit Type: Sun- synchronous	SPOT 1: 60 x 60 - 80 km SPOT 2: 60 x 60 - 80 km SPOT 3: 60 x 60 - 80 km	SPOT 1: Feb-86 SPOT 2: Jan-90 SPOT 3: Sept-93	French Space Agency (CNES)
SPOT 4, 5 (Satellite Pour l'Observation de la Terre)	Altitude: 832km Orbit Type: Sun- synchronous	SPOT 4: 60 x 60 - 80 km SPOT 5: 600 x 120 km	SPOT 4: Mar-98 SPOT 5: May-02	French Space Agency (CNES)
Landsat 7	Altitude: 705 km Orbit Type: Near polar, sun-synchronous	183 x 170km	Apr-99	USGS EROS data center NASA
GOES (Geostationary Operational Environmental Satellite)	Altitude: 36,000 km Orbit Type: geosynchronous	2399 km	GOES 12: Jul-01	NOAA (National Oceanic and Atmospheric Administration).

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SATELLITE	SENSORS or INSTRUMENTS ONBOARD	SPATIAL RESOLUTION	SPECTRAL RESOLUTION
NOAA - 17	Advanced Very High Resolution Radiometer (AVHRR)	1.1 km	Band 1: 0.58 - 0.68µm (red) Band 2: 0.725 - 1.1µm (near IR) Band 3: 3.55 - 3.93µm (mid IR) Band 4: 10.3 - 11.3µm (thermal IR) Band 5: 11.5 - 12.5µm (thermal IR)
EOS AM-1 (Terra Satellite)	ASTER (Advanced Spaceborne Thermal Emissions and Reflection Radiometer) CERES (Clouds and the Earth's Radiant Energy System) MISR (Multi-angle Imaging Spectro-Radiometer) MODIS (Moderate Resolution Imaging Spectro- Radiometer) MOPITT (Measurement of Pollution in the Troposphere)	ASTER : 15 - 90 m CERES : 20 km MISR: 250 m MODIS: 250 m (bands 1-2) 500 m (bands 3-7) 1000 m (bands 8-36) MOPITT: 22 km	ASTER: Band 1: 0.52 - 0.60 µm Band 2: 0.63 - 0.69 µm Band 3: 0.76 - 0.86 µm Band 4: 1.600 - 1.700 µm Band 5: 2.145 - 2.185 µm Band 6: 2.185 - 2.225 µm Band 7: 2.235 - 2.285 µm Band 8: 2.295 - 2.365 µm Band 9: 2.360 - 2.430 µm Band 10: 8.125 - 8.475 µm Band 11: 8.475 - 8.825 µm Band 12: 8.925 - 9.275 µm Band 13: 10.25 - 10.95 µm Band 14: 10.95 - 11.65 µm CERES: Shortwave: 0.3-5.0 µm Longwave: 8-12 µm MISR: (center wavelength values) Band 1: 446nm (blue) Band 2: 558nm (green) Band 3: 672nm (red) Band 4: 867nm (near infra-red) MODIS: Bands 1-2: 250 m Bands 3-7: 500 m Bands 8-36: 1000 m MOPITT: Band 1: 2.3µm Band 2: 2.4µm Band 3: 4.7µm

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SATELLITE	ORBIT	SWATH WIDTH OR FIELD OF VIEW AREA	LAUNCH DATE	ORGANIZATION(S) INVOLVED
NOAA - 17	Altitude: 833km Orbit Type: Sun- synchronous	3000 km	NOAA - 17: Jun- 02	NOAA (National Oceanic and Atmospheric Administration).
EOS AM-1 (Terra Satellite)	Altitude: 750km Orbit Type: Sun-synchronous	ASTER : 60km CERES : Full Earth MISR: 360 km MODIS: 2330 km x 10 km MOPITT: 640 km	Dec-99	NASA

Satellite Matrix References

- QuickBird: www.digitalglobe.com/about/quickbird.html
- IKONOS: www.spaceimagingme.com/content/Constellation/IKONOS/index.asp
- MODIS: modis.gsfc.nasa.gov/about/specs.html
- EROS: www.imagesatintl.com/aboutus/satellites/satellites.shtml
www.imagesatintl.com/newsmedia/registration/EROS_Satellites.pdf
- Landsat: www.landsat.ca/info/infosolutions.pdf
- RADARSAT: www.ga.gov.au/acres/prod_ser/radadata.pdf
- Terra Satellite: terra.nasa.gov/About/SC/about_spacecraft.html
- ASTER: asterweb.jpl.nasa.gov/
- CERES: asd-www.larc.nasa.gov/ceres/ASDceres.html
- MISR: www-misr.jpl.nasa.gov/
www-misr.jpl.nasa.gov/mission/ispatres.html
- MODIS: modis.gsfc.nasa.gov/
- MOPITT: [www.eos.ucar.eduCreated byu/mopitt/](http://www.eos.ucar.eduCreated%20byu/mopitt/)
- GOES imager: www.oso.noaa.gov/goes/index.htm
- AVHRR & NOAA satellite: www.crisp.nus.edu.sg/~reseas/standard/public/p229_fileLINKEDFILE_satp_en.pdf
- NASA Earth Observatory: earthobservatory.nasa.gov
- Satellite Page: fden-2.phys.uaf.edu/211.fall2000.web.projects/V%20Webb/page%206.htm
- SPOT:: 217.19.61.22/html/_167_.php
- Current & Future RS: geo.arc.nasa.gov/sge/health/sensor/cfsensor.html

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