

Sensor	Type	Platform	Spatial	Number of channels	Spatial sampling characteristics
(A)ATSR	Visible (ATSR-2, AATSR), NIR and IR radiometer	Polar	1 km	7 (4 for ATSR-1)	clear, ocean
AIRS	Infrared hyperspectral sounder (spectrometer)	Polar	15 km	2378	clear, ocean + land
AMSR-E	Microwave imager	Polar	12 km	12	clear + cloudy, ocean
AMSU-B/MHS	Microwave sounder	Polar	15 km	5	clear + cloudy, ocean
COSMIC	GPS radio occultation limb sounding	Polar	~ 100 km along a ray	2	clear + cloudy, ocean + land
GOME	UV/VIS/NIR spectrometer	Polar	40 km × 320 km	3584	clear, ocean + land
GRAS	GPS radio occultation limb sounding	Polar	~ 100 km along a ray	2	clear + cloudy, ocean + land
HIRS	Infrared broadband sounder (radiometer)	Polar	20 km	20	clear, ocean + land
IASI	Infrared hyperspectral sounder (spectrometer)	Polar	12 km	8461	clear, ocean + land
MERIS	Visible and NIR spectrometer	Polar	1 km	15	clear, land
MODIS	Visible, NIR and IR spectro-radiometer	Polar	0.25–1 km	36	clear
MWR	Microwave imager	Polar	20 km × 20 km	2	clear + cloudy, ocean
SSM/I	Microwave imager	Polar	40 km	7	clear + cloudy, ocean
SSMIS	Microwave imager	Polar	47 km	24	clear + cloudy, ocean
SSM/T-2	Microwave sounder	Polar	50 km	5	clear + cloudy, ocean
TMI	Microwave imager	Low-inclination tropical orbit	10 km	9	clear + cloudy, ocean
TMR	Microwave imager	Polar	11 km × 5 km	3	clear + cloudy, ocean