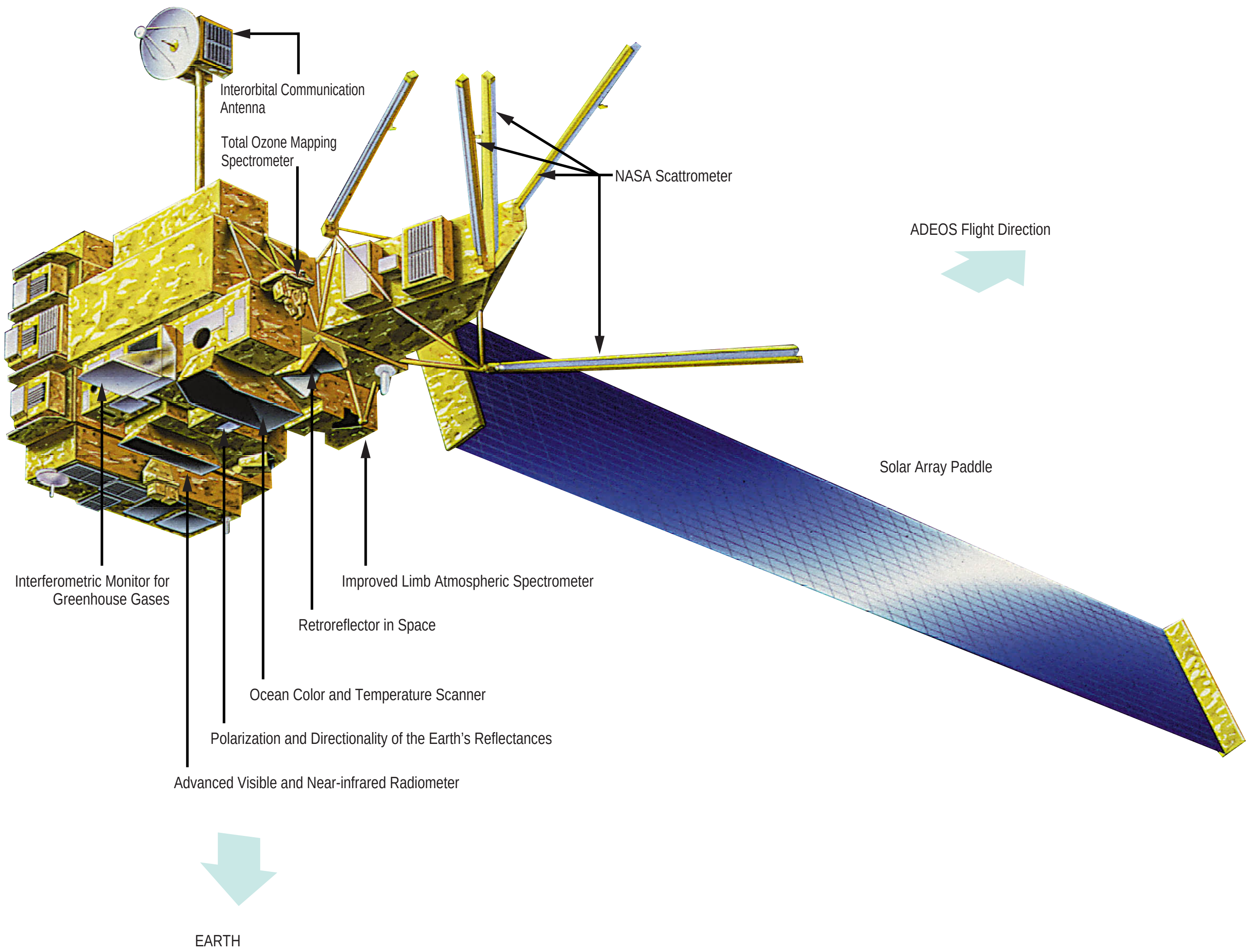
ADEOS Flight Segment



Main Characteristics of ADEOS

Shape	Module type with depoloyable solar paddle (one wing) Body : Approx. 4 X 4 X 5 (m) (mission, bus module) Solar paddle : Approx. 3 X 26 (m)	
Weight	Approx. 3.5ton (at lift-off)	
Attitude Control	Three-axis stabilized (zero-momentum)	
Design Life	3 years	
Launch Vehicle	H-II (5mø fairing)	
Launch Site	Tanegashima Space Center, Kagoshima	
Launch Date	August 17,1996	
Orbit	Type	Sun Synchronous Subrecurrent
	Altitude	Approx. 800km
	Inclination	Approx. 98.6deg.
	Period	Approx. 101min.
	Recurrent Period	41days
	Local time descending node	10:15-10:45AM
Data Transmission	Direct Transmission and Inter-orbit Communication (Equipped with Mission Data Recorder)	

Major Specifications of NASDA Sensors

Sensor	Ocean Color and Temperature Scanner (OCTS)		Advanced Visible and Near-Infrared Radiometer (AVNIR)	
Measurement Objectives	Ocean Color and Sea Surface Temperature		Land and Coastal Zone	
Scanning Method	Mechanical		Electronic (CCD)	
Wavelength	Visible	6Bands	Visible	3Bands
	Near-infrared	2Bands	Near-infrared	1Band
	Middle-infrared	1Band	Panchromatic-Band	
	Thermal-infrared	3Bands	(Visible)	1Band
Spatial Resolution	Approx. 700m		Multi-Band	Approx. 16m
			Panchromatic-Band	Approx. 8m
Swath Width	Approx. 1,400km		Approx. 80km	

Major Specification of AO Sensors

Sensor	Country	Organization	Objectives and Major Specifications
NSCAT (NASA Scatterometer)	USA	NASA / JPL	Measurement of surface wind speed and direction over the global oceans Swath width : 1,200km, Frequency : 13.995GHz, Wind speed measurement accuracy : 2m/s Direction accuracy : 20° (at spatial resolution of 50km)
TOMS (Total Ozone Mapping Spectrometer)	USA	NASA / GSFC	Observation of total ozone changes, evaluation of changes in UV radiation and the observation of sulfur dioxide Swath width : 2,795km, Wave length : 308.6, 312.5, 317.5, 322.3, 331.2, 360.0nm
POLDER (Polarization and Directionality of the Earth's reflectances)	FRANCE	CNES	Observation of bi-directionality and polarization of the solar radiation reflected by the Earth-atmosphere system Swath width : 1,825 X 2,470km Wave length : 443, 670, 865nm (Three different polarization directions) 443, 490, 565, 763, 765, 910nm (No polarization)
IMG (Interferometric Monitor for Greenhouse Gases)	JAPAN	Ministry of International Trade and Industry	Observation of CO_2, CH_4, N_2O and other greenhouse gases Swath width : 8 X 8km Wave length : 3.3-4.3, 4.0-5.0, 5.0-14.0µm
ILAS (Improved Limb Atmospheric Spectrometer)	JAPAN	Environment Agency	Observation of the limb atmospheric micro-ingredient over high latitude area Wave length : 753-784nm, 6.2-11.8µm Observation altitude : 10-60km
RIS (Retroreflector in Space)	JAPAN	Environment Agency	Measurement of ozone, fluorocarbon, carbon dioxide, etc. by laser beam absorption technique, transmitted from ground station and reflected by the retroreflector on ADEOS Wave length : 0.3-14µm, Corner Cube retroreflector : ø50cm