

PASSIVE MICROWAVE SENSING SPACECRAFT - Table 1

Sea Ice, Scalar Surface Winds and Atmospheric Moisture

<u>SATELLITE</u>	<u>SPONSOR</u>	<u>OCEAN-RELATED SENSORS</u> <u>TECHNICAL DETAILS & COMMENTS</u>	<u>LAUNCH</u>	<u>STATUS</u>
Nimbus-7	USN	MR (<u>SMMR</u>), IR (THIR), CZCS	1978	Completed in 1985
SEASAT	NASA	ALT (1 frequency), SCAT (SASS-Ku-band) MR (<u>SMMR</u>), SAR (C-band)	June 26, 1978	Failed after ~100 days
MOS-1A	NASDA	OC/VS (LAND), IR, MR (<u>MSR</u>)	February 1987	Completed in 1995
DMSP (5D-2) (SSMI First Launch in 1987, Last Launch 5D-2 in April 1997)	USAF/NOAA NASA	MR (<u>SSMI</u>), VS/IR (OLS) Data Facility with NSIDC	June 1982	Operational Operational
MOS-1B	NASDA	MR (<u>MSR</u>), OC/VS, VS/Land, IR	February 1990	Completed in 1996
TRMM (Tropical Rainfall Measuring Mission)	NASDA/NASA	MR (<u>TMI</u>), VS/IR (VIRS) Precipitation Radar, CERES, LIS 35° Inclination	November 1997	Operational
IRS-P4 (OCEANSAT-1)	INDIA (ISRO)	MR (<u>MSRS</u>), 40-120km resolution 4-bands (6.6, 10.6, 18 & 21 GHz) OC/VS (OCM, 8 bands)	May 26, 1999	Operational
DMSP (5D3-Series)	USAF	MR (<u>SSMI/S</u> , multi-frequency)	Dec 12, 1999	Operational
TERRA (EOS-AM1)	NASA	OC/VS & IR (MODIS, 36 bands), MOPITT MR (<u>MISR</u> , 4 bands, 9 looks), ASTER, CERES	Dec 18, 1999 Atlas IIAS	Launched
AQUA (EOS-PM1)	NASA	OC/VS&IR (MODIS, 36 bands), AMSU, AIRS MR (<u>AMSR/E</u> , 12 channels), HSB, CERES	Dec 2000+	Approved

PASSIVE MICROWAVE SENSING SPACECRAFT - Table 2

Sea Ice, Scalar Surface Winds and Atmospheric Moisture

<u>SATELLITE</u>	<u>SPONSOR</u>	<u>OCEAN-RELATED SENSORS TECHNICAL DETAILS & COMMENTS</u>	<u>LAUNCH</u>	<u>STATUS</u>
ENVISAT	ESA	ALT (RA-2, 2-frequency), Adv. C-band SAR, IR/MR (AATSR), OC/VS (MERIS, 15 bands), <u>MR (MWR, 2 frequency {23.8 & 36.5 GHz})</u> Advanced DORIS (tracking)	June 2001	Approved
ADEOS-2	NASDA NASDA NASA CNES	OC/VS & IR (GLI, 36 bands) <u>MR (AMSR, 6 frequency), 10-50km resolution)</u> SeaWinds-2 (~Ku-band SCAT) OC/VS (POLDER, 9 bands), DCS	2002+	Approved
CORIOLIS	USN/NPOESS	<u>WINDSAT-Polarimetric MR (SSM/I-type res.)</u> <u>5-bands (6.2, 10.7, 18.7, 23 & 37GHz)</u> Vector Wind Demonstration	Early 2002	Approved
OCEANSAT-2	INDIA (ISRO)	Ku-band ALT, Ku-band SCAT &/or <u>MR</u> (Being considered!)	2003+	Approved