

OCEAN COLOR* SPACECRAFT - Table 1

Ocean Biology (Productivity & Chlorophyll) and Coastal Pollution

| <u>SATELLITE</u> | <u>SPONSOR</u> | <u>OCEAN-RELATED SENSORS TECHNICAL DETAILS & COMMENTS</u> | <u>LAUNCH</u> | <u>STATUS</u> |
|--------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| MOS-1A | NASDA | <u>OC/VS/Land</u> , IR, MR (MSR) | February 1987 | Completed in 1995 |
| MOS-1B | NASDA | <u>OC/VS</u> , <u>VS/Land</u> , IR, MR (MSR) | February 1990 | Completed In 1996 |
| IRS-P3 (Germany supplies MOS) | INDIA | <u>MOS-A</u> (nir, 4-bands), 3km resolution <u>MOS-B</u> (vis & nir, 13 bands), 7km resolution | January 1996 | Operational |
| PIRODA-MIR (Germany supplied MOS) | RUSSIA | <u>MOS-A</u> (nir, 4-bands), 3km resolution <u>MOS-B</u> (vis & nir, 17 bands), 7km resolution | Spring 1996 | Onboard (MOS off!) |
| MIDORI (ADEOS-1) | NASDA | AVNIR-1 (3vis & 1nir bands), ~16m resolution Pan (~8m resolution), 80km swath <u>OC/VS&IR (OCTS, 6vis & 6ir bands)</u> , ~1,400km swath | August 1996 | Failed in June 1997 |
| | NASA CNES | NSCAT (Ku-band) POLDER | | |
| Orb View-2 | Orbit. Science Corp NASA | <u>OC/VS (SeaWiFS, 8 bands)</u> Data Purchase & Facility | August 1, 1997 | Operational Sept 1997 |
| ROCSAT 1 | TAIWAN (TRW) | <u>OC/VS (OCI, 6 bands)</u> , 35°inclination | Jan 27, 1999 | Operational? |
| IRS-P4 (OCEANSAT-1) | INDIA (ISRO) | <u>OC/VS (OCM, 8 bands)</u> , 360m resolution MR (MSRS), 40 - 120km resolution 4-bands (6.6, 10.6, 18 & 21 GHz) | May 26, 1999 | Operational |

*Resolution is~360-1000m

OCEAN COLOR* SPACECRAFT - Table 2

Ocean Biology (Productivity & Chlorophyll) and Coastal Pollution

| SATELLITE | <u>SPONSOR</u> | <u>OCEAN-RELATED SENSORS</u> <u>TECHNICAL DETAILS & COMMENTS</u> | LAUNCH | <u>STATUS</u> |
|-------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|
| TERRA (EOS-AM1) | NASA | OC/VS & IR (<u>MODIS, 36 bands</u>), MOPITT MR (MISR, 4 bands, 9 looks), ASTER, CERES | Dec 18, 1999 Atlas IIAS | Launched |
| KOMPSAT (Arrirang-1) (Korean Multi-Purpose Satellite) | KOREA (KARI) & TRW | OC/VS (<u>OSMI, 6 bands</u>) PAN (~6.6m resolution) | Dec 20, 1999 Taurus Launch with Acrimsat | Operational |
| AQUA (EOS-PM1) | NASA | OC/VS&IR (<u>MODIS, 36 bands</u>), AMSU, AIRS MR (AMSR/E, 12 channels), HSB, CERES | Dec 2000+ | Approved |
| ENVISAT | ESA | ALT (RA-2, 2-frequency), C-SAR IR/MR (AATSR), OC/VS (<u>MERIS, 15 bands</u>) MR (MWR), Advanced Doris (tracking) | June 2001 | Approved |
| ADEOS-2 | NASDA NASDA NASA CNES | OC/VS & IR (<u>GLI, 36 bands</u>) MR (AMSR, 6 frequency), 10-50km resolution SeaWinds-2 (~Ku-band SCAT) OC/VS (POLDER, 9 bands), DCS | 2002+ | Approved |

*Resolution is ~360-1000m