FUTURE-VISIBLE/INFRARED HIGH-RESOLUTION* SPACECRAFT - Table 1

Military, Civil, and Scientific Mapping - Monitoring and Research Urban, Land, Agricultural, Coastal and Coral Reef Applications

SATELLITE	SPONSOR	OCEAN-RELATED SENSORS TECHNICAL DETAILS & COMMENTS	<u>LAUNCH</u>	STATUS
SSTI/LEWIS (Hyperspectral)	NASA/TRW	HSI (PAN), 5m resolution HIS (384 [ms] bands), 30m resolution LEISA (atmospheric gases)	August 1997	Failed 1997 Lost Power
EarlyBird	Earth-Watch Ball Brothers	HRC (PAN), 3m resolution WFC (3 bands), 15m resolution	December 1997 (Russia Start-1)	Failed Launch
SSTI/Clark	NASA/CTA	HRC (PAN), 3m resolution WFC (3 bands), 15m resolution MAPS (atmospheric gases)		Canceled
IKONOS-1	Space Imaging Corp., Samsung & EOSAT	CRSS PAN, 1m resolution, 11km FOV CRSS MS (4 vis bands), 4m resolution Accurate digital elevation models	April 27, 1999 Athena-2 Launch	Launch Failure
IKONOS-2	Space Imaging Corp., Samsung & EOSAT	CRSS PAN, 1m resolution, 11km FOV CRSS MS (4 vis bands), 4m resolution Accurate digital elevation models	Sept 24, 1999 Athena-2 Launch	Operational
EROS Constellation - Earth Remote Operation System A Series: 2000 & 2001+ B Series: 2002 to 2004	West Indian Space (Israel Aircraft Inds. & Core Software Technology)	PAN (CCD), ~1m resolution, ~16km swaths Multi-spacecraft in various orbits, rapid processing & distribution; & will not carry onboard recorder.	Summer 2000 A-1 launch by Russian Start-1	Approved for a fleet of 8 satellites
QuickBird-1 (Cosmos Launch)	Earth-Watch	HRC-PAN, 1m resolution, 22km swath WFC(3 bands, 1 nir), 4m resolution	Summer 2000	Approved

[•] Resolution is ~1-10m. Others under consideration by private and government sectors.

FUTURE-VISIBLE/INFRARED HIGH-RESOLUTION* SPACECRAFT - Table 2

Military, Civil, and Scientific Mapping - Monitoring and Research Urban, Land, Agricultural, Coastal and Coral Reef Applications

<u>SATELLITE</u>	SPONSOR	OCEAN-RELATED SENSORS TECHNICAL DETAILS & COMMENTS	<u>LAUNCH</u>	<u>STATUS</u>
OrbView-3 (or 4?)	OrbitalScience Corp. (OrbImage) & partners	Pan, 1m resolution, 6km swath MS(color), ~4m resolution	November 2000	Approved
IRS-P5 (CARTOSAT-1)	INDIA (IRSO)	VS (HR-PAN), 2.5m resolution 30km swath, stereo	Late-2000+	Approved
OrbView-4	Orbital Sciences Corp. (OrbImage) & partners	PAN, 1m resolution, 6km swath MS(color), ~4m resolution Hyper-Spec (color), ~8m resolution,	Early-2001+	Approved
QuickBird-2 (Cosmos Launch)	Earth-Watch Ball Aerospace	HRC-PAN, 1m resolution, 22km swath WFC (3 bands, 1 nir), 4m resolution	Mid-2001	Approved
SPOT-5	CNES	HRV PAN (~2.5m resolution) HRV XS (2 vis & 2 ir bands), ~10m resolution	Early- 2002	Approved
IRS-P6 (RESOURCESAT-1)	INDIA (IRSO)	VS/NIR (AWiFS), 3 bands, ~200m resolution, ~800km swath NIR/VIS (LISS-IV, 3 bands), 2.5m resolution, 23.5km swath, stereo	2002	Approved
ROCSAT-2	TAIWAN (Matra Marconi)	PAN, ~2 m resolution, 60 km swath MSS, 15 m resolution, stereo capability	2002+	Approved

[•] Resolution is ~1-10m. Others under consideration by private and government sectors.

FUTURE-VISIBLE/INFRARED HIGH-RESOLUTION* SPACECRAFT - Table 3

Military, Civil, and Scientific Mapping - Monitoring and Research Urban, Land, Agricultural, Coastal and Coral Reef Applications

<u>SATELLITE</u>	SPONSOR	OCEAN-RELATED SENSORS TECHNICAL DETAILS & COMMENTS	<u>LAUNCH</u>	<u>STATUS</u>
ALOS	NASDA	PALSAR (L-band, variable off-nadir pointing) Prism PAN (3bands), ~2.5 m resolution 35km swath, stereo mapping AVNIR-2 MS (4bands), ~10m resolution 70km swath	2002+	Approved
CARTOSAT-2 * Resolution is ~ 1-10	INDIA (ISRO) m. Others under consi	VIS (1m resolution) deration by private and government sectors.	2003	Approved