EARTHWATCH, INC.

Image 14. This EarthWatch image depicts natural and cultural resource information required to locate a suitable lumber processing site.

Sensor Specifications

	EarlyBird Satellite Panchromatic Sensor	QuickBird Satellite Panchromatic Sensor
Spatial Resolution:	3 meters	1 meter
Wavelength Region:	0.45 to 0.80 *u*m	0.45 to 0.90 *u*m

	EarlyBird Satellite Multicolor Sensor	QuickBird Satellite Multicolor Sensor
Spatial Resolution:	15 meters	4 meters
Wavelength Regions:	0.50 to 0.59 *u*m [green]	0.45 to 0.52 *u*m [blue]
	0.61 to 0.68 *u*m [red]	0.53 to 0.59 *u*m [green]
	0.79 to 0.89 *u*m [NIR]	0.63 to 0.69 *u*m [red]
		0.77 to 0.90 *u*m [NIR]

Revisit: The EarthWatch system will revisit most populated parts of the world 2-3 times per day.
Operational Dates: First satellite is scheduled to be launched in late 1996, the fourth satellite is scheduled to be launched in mid-1999.

General Discussion

The EarthWatch system will be composed of two 3-meter resolution EarlyBird satellites and two 1-meter resolution QuickBird. This density of coverage will allow nearly daily coverage of each point on the earth.

Vendor Information

For more detailed EarthWatch, Inc. information contact: purchasing:

EarthWatch, Inc.
Dir.
1900 Pike Road
Longmont, CO 80501-6700
POC: Ron Birk (Director, Civil Government Marketing)

U.S. Army Civil Imagery Acquisition Program

For availability questions and

Topographic Engineering Center - Ops

7701 Telegraph Road
Alexandria, VA 22315-3864
Phone: (703) 428-6909 DSN 328-6909

web: http://www.digitalglobe.com

web:http://www.tec.army.mil/OD/service.html and go to Imagery Acquisition

SPACE IMAGING, INC.

Image 15. Pan-sharpened multispectral data at 1-meter spacing. This image was collected over Moffett Naval Air Station.

Sensor Specifications

	Panchromatic Sensor	Multispectral Sensor
Spatial Resolution:	1 meter	4 meters
Wavelength Region:	0.45 to 0.90 *u*m	0.45 to 0.52 *u*m [blue] 0.52 to 0.60 *u*m [green] 0.63 to 0.69 *u*m [red] 0.76 to 0.90 *u*m [NIR]

Swath Width: Images will cover areas of 11 km x 11 km, but smaller or larger areas can be purchased.

Revisit Time: 2-4 days

Operational Dates: The Space Imaging satellite is scheduled to be launched in 1997.

General Discussion

Prior to ordering products, customers can review reduced-resolution "browse" imagery in the Space Imaging archive that meets specific criteria such as geographical location, maximum cloud cover, time of image collection, ground sample distance, and where appropriate, mono and stereo views.

Products will include radiometrically corrected images; geometrically corrected images, orthorectified images made from one-meter pan imagery that meet the U.S. National Map Accuracy Standards for map scale accuracy up to 1:2400; pan-sharpened color imagery; and digital terrain models generated from stereo image pairs.

Vendor Information

For more detailed Space Imaging, Inc. information contact:

Space Imaging, Inc.
9351 Grant Street, Suite 500
Thornton, CO 80229-0939
Phone: (800) 425-2997 or (303) 254-2000
328-6909
email: info@spaceimage.com

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email: msantoro@tec.army.mil

web.http://www.tec.army.mil/OD/service.html

and go to Imagery Acquisition

DIGITAL MULTISPECTRAL VIDEO (DMSV)

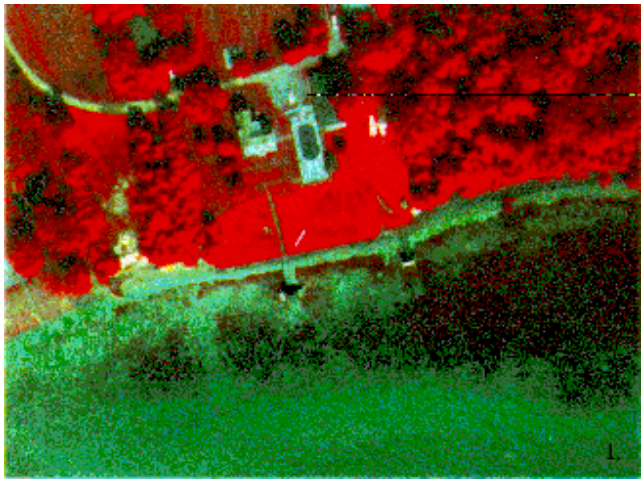

Image 12. Digital Multispectral Video image compiled using bands 0.75, 0.65, and 0.55 *u*m. This combination shows the shoreline vegetation as well as the presence or absence of aquatic vegetation.

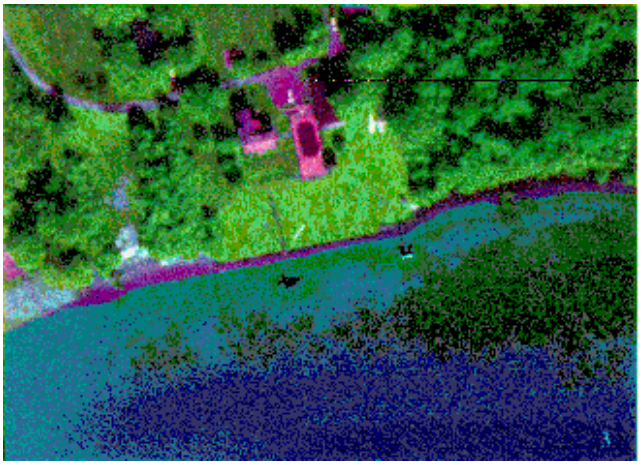

Image 13. DMSV image using a different combination of bands. Changing the band combinations to 0.77, 0.75, and 0.55 *u*m shows density of aquatic vegetation.

Sensor Specifications

Spatial Resolution: Variable resolution (dependent on aircraft height) with a potential of 0.25 meters
Swath width: Variable from 300 to 550 meters
Revisit Time: User-defined

Wavelength Sensitivity

Four bands that are user selectable within the range of 0.350 *u*m to 0.950 *u*m [UV to VIS to NIR] with a band pass width greater than or equal to 0.010 *u*m

Typical wavelength regions may be:

0.325 to 0.575 *u*m [blue] 0.425 to 0.675 *u*m [green]
0.525 to 0.775 *u*m [NIR] 0.625 to 0.875 *u*m [NIR]

General Discussion and Costs

The Digital Multispectral Video (DMSV) is being developed by Topographic Engineering Center. It has been used to delineate endangered species habitat, map wetland vegetation, measure reactions to stream acidification and study nutrient flow in wetland plant communities. DMSV imagery is typically used for customized applications and has a proven high capability in mid-Atlantic aquatic/wetland studies. The selectable bandwidths offer high spatial and high spectral resolution. Frame processing costs $25-50. Travel and setup costs are extra. High cost for large areas.

Vendor Information

For more detailed information contact:

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