



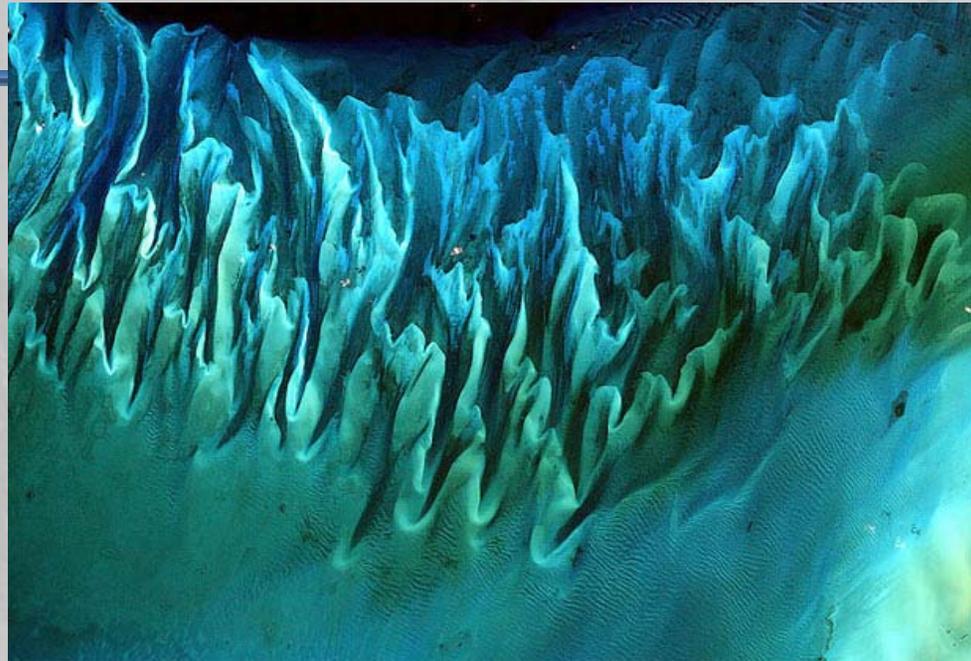
USGS Plans for Higher Level Products and Other Data Sources

presented to the Landsat Science Team by

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Department of the Interior
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Ocean Sand, Bahamas – *Landsat 7* - October 2000

Terrestrial Monitoring – Essential Climate Variables

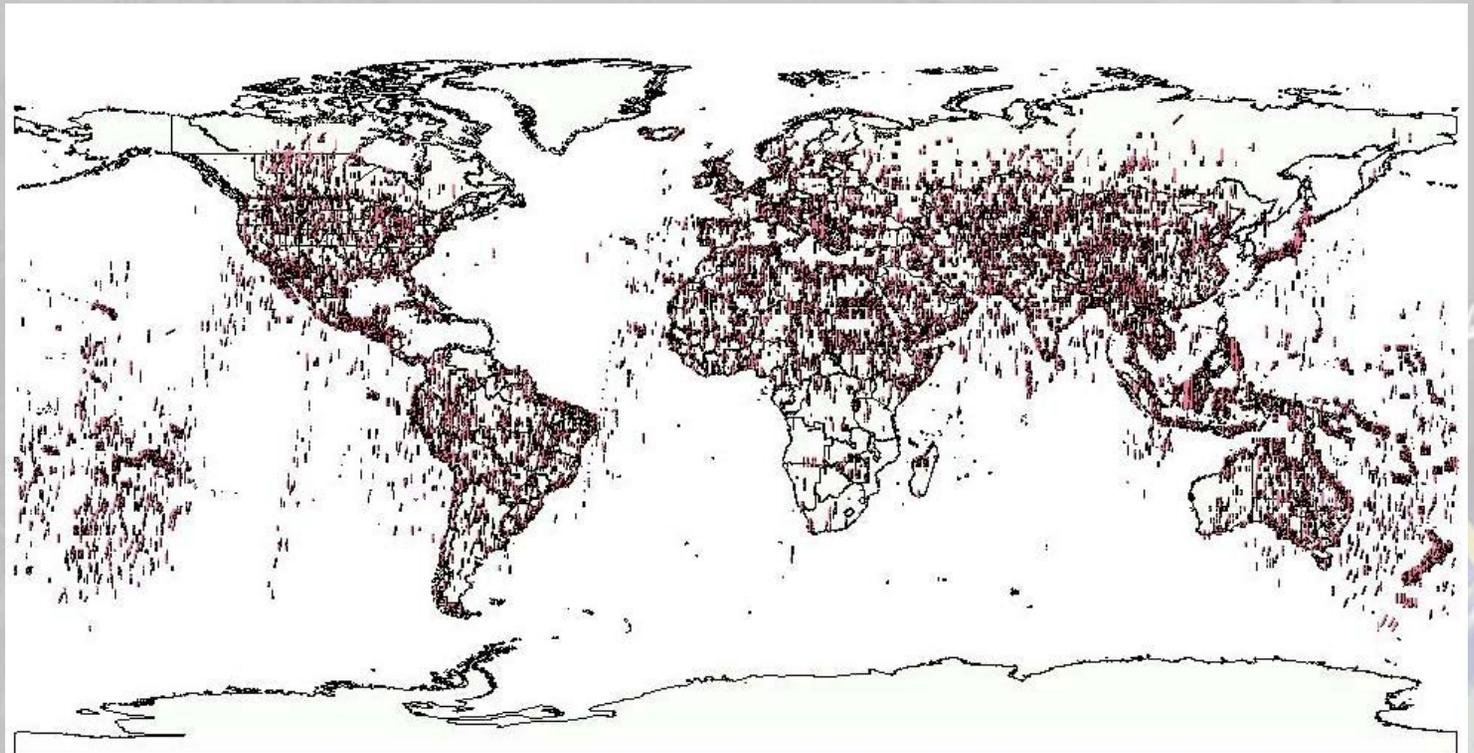
- USGS will produce more than a standard orthorectified data set -> surface reflectance
- Terrestrial Essential Climate Variables (ECVs) – the building blocks of climate change research/terrestrial monitoring
- Formed a team to develop science plan (drivers and needs) and implementation approach
- Series of steps already identified, such as preparing Landsat archive
- Will work with NOAA, NASA, LST, and Department bureaus

Terrestrial ECV	Technical Consideration			Requirements / Demand		
	Landsat Potential	USGS Readiness	USGS Uniqueness	USGS Mission Relevance	Importance to DOI	Overall Community Demand
Land Cover	High	High	High	High	High	High
Leaf Area Index	High	Low	Low	Medium	Medium	Medium
FPAR	High	Low	Low	Medium	Low	Low
Biomass	Low	Low	Low	High	High	High
Albedo	Medium	Low	Low	Medium	Low	Low
Fire	Medium	High	Medium	High	High	High
Lake Variables	High	High	Medium	High	High	Medium
Snow and Ice	Medium	Medium	Low	Medium	Medium	Medium
Soil Moisture	Low	Medium	Low	Medium	Medium	Medium



GeoEye OrbView-3 Data Purge

- GeoEye contacted the USGS about their intention to purge OrbView-3 archive, per NOAA license
- The satellite was launched June 26, 2003 and was considered inoperable in March 2007
- The collection is comprised of 530,424 images
- Over 80% of the collection is made up of panchromatic, 1-m imagery; ms is 4-m, 4 band
- Approximately 50% of total has 10% or less cloud cover
- Includes open data policy



North America Data Buy

- USGS, in partnership with NASA and the USDA, have contracted to receive satellite data over North America. The USGS recently awarded a contract to SPOT Image Corporation for moderate-resolution optical satellite data. This data buy includes all collections of SPOT 4 and SPOT 5 data for the next 12 months over the conterminous U.S. and parts of Canada and Mexico. Data will be made available at no cost to U.S. Federal Civil Agencies and U.S. State and Local Government users, per the licensing arrangements. SPOT data will be directly downlinked to the USGS at the EROS Center following the installation of a SPOT ground processing capability.

Date	Number of Spot 5 Scenes	Number of Spot 4 Scenes
12/28/2009	20	
12/30/2009	20	
12/31/2009	10	
1/4/2010	31	6
1/5/2010	83	
1/6/2010	68	
1/7/2010	39	
1/8/2010	35	
1/11/2010	33	
1/12/2010	45	
1/13/2010	30	
Total	414	6

