

# CEOS Virtual Constellation for Land Surface Imaging

## 2012 Work Plan

### I. Introduction

Consistent with guidance provided by the CEOS studies, the LSI Virtual Constellation prepares an annual Work Plan to guide its activities. The Work Plan identifies goals for the year and describes the work to be accomplished to achieve those goals, including the objectives and overall approach to be applied. The Work Plan also identifies deliverables expected from the work, and it presents a timeline with milestones for the year's activities. The *2012 Work Plan* was prepared by the LSI Virtual Constellation (VC) Team.

### II. 2011 Accomplishments

In 2011, the LSI Constellation Study Team defined two primary goals, which sought both to complete unfinished tasks from the previous Work Plan and to undertake important new activities. Specifically, those were:

The LSI Mid-Resolution Optical Guidelines document  
MS3Ortho Tool from INPE

### III. 2012 Goals

LSI Virtual Constellation Team goals for 2012 focus on addressing the CEOS Self Study and the CEOS Portal Study findings, improving direct access to surface observations, enhancing the user experience, and refocusing support for the FCT/GFOI and JECAM/GEOGLAM initiatives.

#### A. Goal 1 – Addressing the CEOS Self Study and CEOS Portal Study Findings

**Background.** The 2011 CEOS Self Study and CEOS Portal Study contained specific elements that would improve the LSI Virtual Constellation.

**Objectives.** Specific shortcomings in the LSI VC were identified as follows:

- No real-time data access
- No data products provided
- Services and tools not provided
  - Note: The INPE MS3Ortho Tool has been released since the studies.
- Portal could use organizational/aesthetic improvements/updates
- CEOS Agency participation in the LSI has been limited and should be increased
- Radar systems are not included

**Approach.** The LSI VC team plans to address these shortcomings directly.

1. No real-time data access
  - a. The LSI VC team plans to develop a map interface for the portal that will utilize the CEOS WGISS Integrated Catalog (CWIC) to provide near real-time data

access to at least EO data inventories from INPE, NOAA, NASA, USGS and CRESDA.

2. No data products provided
  - a. Through implementation of the map interface it is anticipated that data products will be directly provided.
3. Services and tools not provided [on the site]
  - a. The recent release of the MS3Ortho tool by INPE is the start in addressing this point. New links to the Web-Enabled Landsat Data (WELD) set and the Landsat Spectral Viewer will be useful tools for the portal.
4. Portal could use organization/aesthetic improvements/updates
  - a. The LSI VC plans to review each page to address the portal shortcomings.
5. CEOS Agency participation in the LSI has been limited and should be increased.
  - a. Refocusing the LSI VC to play a more active role in the FCT/GFOI and JECAM/GEOGLAM initiatives, and requesting the SIT and Plenary to solicit sustained CEOS agency participation for the LSI VC, should infuse the VC with additional resources and support.
6. Radar systems not included
  - a. Adding informational links, similar to how the current optical missions are addressed, will be included. The CEOS Missions, Instruments and Measurements (MIM) database will be utilized for agency-approved information.
  - b. Following the addition of the informational links, direct data access, where feasible per distribution policies, will be provided through the map interface and CWIC means.

**Deliverables.** The tangible outputs planned include:

- A mechanism that allows direct data access.
- Utilizing that direct data access, a means to data products is provided.
- Relevant services and tools added to the portal.
- Direct interaction and participation with the FCT/GFOI and JECAM/GEOGLAM initiatives as they relate to land surface imaging. In some cases, this may involve more engagement with the Space Data Coordination Group.
- Radar systems added to the portal.

**Tasks & Timelines.** Below are the tasks and anticipated start / completed times for the LSI VC 2012 work items:

2012 Work Task	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
The LSI VC team plans to develop a map interface for the portal that will utilize the CEOS WGISS Integrated Catalog (CWIC) to provide data access to at least EO data inventories from INPE, NOAA, NASA, USGS and CRESDA.												
Through implementation of the map interface it is anticipated that data products will be provided.												
The recent release of the MS3Ortho tool by INPE initiated the provision of LSI-related services and tools. Adding a links to the Web-Enabled Landsat Data (WELD) and the Spectral Viewer will completed.												



Participants:

First	Last	Organization	Email Address
Mike	Abrams	NASA/JPL	michael.abrams@jpl.nasa.gov
	Ajai	ISRO	<a href="mailto:ajai@sac.isro.gov.in">ajai@sac.isro.gov.in</a>
Marcia	Alvarenga	INPE	<a href="mailto:marcia@dss.inpe.br">marcia@dss.inpe.br</a>
Alan	Belward	JRC	alan.belward@jrc.it
Michael	Berger	ESA	Michael.Berger@esa.int
Stefano	Bruzzi	ASI	bruzzi.stefano@gmail.com
Yves	Crevier	CSA	Yves.Crevier@ASC-CSA.gc.ca
Julio	Dalge	INPE	julio@dpi.inpe.br
Daniel	DeLisle	CSA	Daniel.DeLisle@asc-csa.gc.ca
P.G.	Diwakar	ISRO	diwakar@isro.gov.in
John	Dwyer	USGS	dwyer@usgs.gov
John	Faundeen	USGS	faundeen@usgs.gov
Kevin	Gallo	NOAA	Kevin.P.Gallo@noaa.gov
Garik	Gutman	NASA	garik.gutman@nasa.gov
Alex	Held	CSIRO	Alex.held@csiro.au
Steven	Hosford	CNES	steven.hosford@cnes.fr
David	Hudson	Geoscience Australia	david.hudson@ga.gov.au
Rajeev	Jaiswal	ISRO	rajeev@isro.gov.in
Herve	JeanJean	EC	Herve.JEANJEAN@ec.europa.eu
Brian	Killough	NASA	Brian.D.Killough@nasa.gov
Adam	Lewis	Geoscience Australia	adam.lewis@ga.gov.au
Guoqing	Li	CEODE	gqli@ceode.ac.cn
Francis	Lindsay	NASA	francis.lindsay-1@nasa.gov
Monica	Lopez	CDTI	mll@cdti.es
Stuart	Marsh	BGS	shm@bgs.ac.uk
Ana	Medico	CONAE	amedico@conae.gov.ar
Osamu	Ochiai	JAXA	ochiai.osamu@jaxa.jp
Lola	Olsen	NASA	lola.m.olsen@nasa.gov
Jean	Parcher	USGS	jwparcher@usgs.gov
Ivan	Petiteville	ESA	Ivan.Petiteville@esa.int
Phuriwaj	Ruengnaowaroj	GISTDA	phuriwaj@gistda.or.th
Barb	Ryan	WMO	bryan@wmo.int
Aurelie	Sand	CNES	aurelie.sand@cnes.fr
Per Erik	Skrovseth	NSC	per.erik.skrovseth@spacecentre.no
Greg	Stensaas	USGS	stensaas@usgs.gov
Tim	Stryker	USGS	tstryker@usgs.gov
Takeo	Tadono	JAXA	tadono.takeo@jaxa.jp
Prasad	Thenkabail	USGS	pthenkabail@usgs.gov
John	Townshend	U of Maryland	jtownshe@mail.umd.edu
Stephen	Ungar	NASA	Stephen.Ungar@nasa.gov
Joao	Viane	INPE	viane@dsr.inpe.br
Yonghong	Zhang	NRSCC	yhzhang@casm.ac.cn