



8th GEO Capacity Building Committee Meeting

***TASK REPORT
CB-07 01e
Open Source Software***

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Background and Objectives

- Encourage the use of OSS solutions across/along EO value chain by building on existing efforts and drawing on networks of OSS developers
- Use TerraLib and TerraView platforms as starting GIS platforms (integrated Earth Observation and GIS data)



TerraLib

- A library to develop geographical applications
- C++ language
- Free and Open Source – LGPL
- Spatial Operations, image processing, spatial analysis,
...
- Allows users to customize a solution





TerraView

	SPRAREA	SPRPERIMET	SPRROTULO	COD	SIGLA	DENO	POP_FAVELADA	MORT_INFANTIL
1	208960097.125	85097.2894		1	52 MAR	MARSILAC	0	59.004
2	9967799.3438	14983.1893		10	96 VSO	VILA SONIA	25.05	22.797
3	11994034.8281	14394.0498		11	81 SOC	SOCORRO	1.67	9.387
4	12937072.8438	15639.6731		12	16 CGR	CAMPO GRANDE	3.34	26.82
5	16091303.3281	15917.3056		13	72 SAM	SANTO AMARO	0	9.387
6	11530589.0781	15134.2508		14	55 MOR	MORUMBI	23.38	16.092
7	8714750.5	13172.5228		15	15 CBE	CAMPO BELD	11.69	22.797

- Full GIS application package that allows the construction, visualization and analysis of a **TerraLib database**
- It can be customized by Plugins





Expected Milestones for 2008

- TerraLib team at INPE has been working on a plain new version of the library (version 4.0)

- *TerraLib & TerraView 3.** versions - Partnership with Brazilian Institutes and Universities
 - TerraPrint: setup of a print layout (maps, scale, legends, texts, different fonts and paper size etc)

 - TerraCluster: spatial statistics (spatial temporal cluster detection, analysis of point patterns, rate estimation...)



Expected Milestones for 2008

- Active Participation in the XIII International Symposium SELPER - 22 – 26 September, 2008 - Havana, Cuba
 - Courses
 - Introduction to SPRING
 - Geographic Databases
 - TerraView
- Participation in the “Cape Town South Africa – FOSS4G 2008”
 - TerraLib as an Open Source Platform for Public Health Applications
- Participation in the pre-event workshop of AARSE, Accra, Ghana (Oct. 2008) ...
- TerraView Site in English



Expected Milestones for 2008

■ **JUNE, 2008:**

launching of a totally new version of **SPRING 5.0**

- 100,000 registered users

What is NEW?

- Increased speed and efficiency
- Main interface was remodeled.
- It contains an assistant for importing images from CBERS satellite
- Much more...



SPRING 5.0

News SPRING 5.0

Introduction

Database

Visualization

Control Panel

Images

CBERS

Graphic

Vector Editing

Raster Edition

Object table

Attribute Table

Non-Spatial Tables

LEGAL

Shortcuts

Others

Community SPRING

Introduction






























Welcome to **SPRING 5.0**. This window will present its major innovations. Reading it is important as you can become familiar with all changes and innovations of this version.

Use the next and previous buttons to browse through this dialog. The left menu shows the current topic and allows quick navigation to interesting items.

If you do not want to see this window again, please, select the option "Do not show again."

Do not show again.    



BRASIL	 (75747)
Spain	 (2933)
United States	 (2711)
Argentina	 (2393)
Colombia	 (2273)
Mexico	 (1262)
France	 (1223)
Portugal	 (1100)
Italy	 (989)
Peru	 (858)
India	 (853)
Germany	 (839)
Chile	 (785)
Venezuela	 (703)
Canada	 (599)
Bolivia	 (510)
United Kingdom	 (474)
Ecuador	 (452)
Australia	 (416)
China	 (344)
Uruguay	 (294)
Paraguay	 (198)
Costa Rica	 (191)
Poland	 (184)
Netherland	 (179)
Greece	 (162)
South Africa	 (156)

SPRING
Users –
104206

September
16, 2008



Expected Milestones for 2009

- **Pre-project → training potential users of CBERS users in the “Portuguese” Africa:**
 - Using remote sensing images and Geoprocessing using SPRING, semipresential courses
 - Angola
 - Moçambique
 - Cabo Verde
 - Guine Bissau
 - Sao Tome e Principe

- CBERS for Caribbean



Final remarks

- Combining open source software with the technical workforce available in developing countries can enable technology transfer.
- TerraLib, TerraView and SPRING have INPE's support for a long term maintenance policy



Recommendations for additional participants

- Who could contribute to this task?
 - ITC
 - IRD
 - many others...

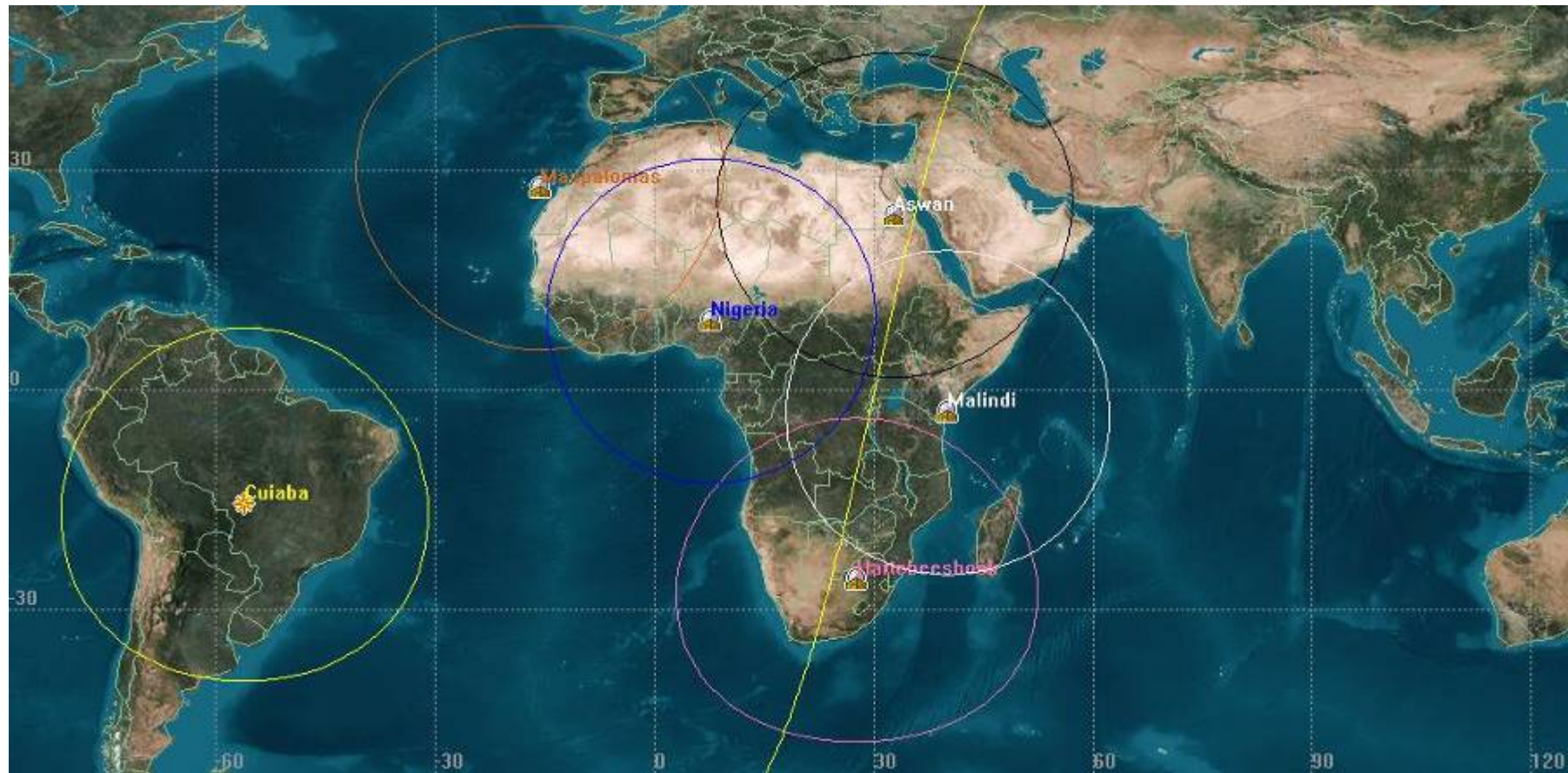
- In process of signing a MOU with IRD...
 - Translation to French
 - Interfaces of TerraLib, TerraView and SPRING
 - All tutorials and manuals of TerraLib, TerraView and SPRING



Current Status

CBERS-2B reception stations in Africa

- Maspalomas – operated by INTA (Spain)
 - technical problems being adressed, should be operational by the end of the year.
- Malindi (Kenya) and Matera – Both operated by ASI (Italy)
 - Under negotiation
- Hartebeeshoek – operated by CSIR (South Africa)
 - Probably experimental by the end of the year
- Aswan – Egypt (NARSS) and Nigeria space agency
 - Not on the initial plan: reception tests in October





CB-09-01: Infrastructure Development and Technology Transfer for Information Access

Sub-tasks

- *Open Source Software (former CB-07-01e)*
- *CBERS*
- *SERVIR Expansion*
- *The African-European Georesources Observation System (AEGOS)*