



# AGRICAB PROJECT AT

**National Institute for Space Research**

**AGRICAB:**  
A framework for enhancing EO capacity for Agriculture and  
Forest Management in Africa as a contribution to GEOSS

October/2011 - March/2015

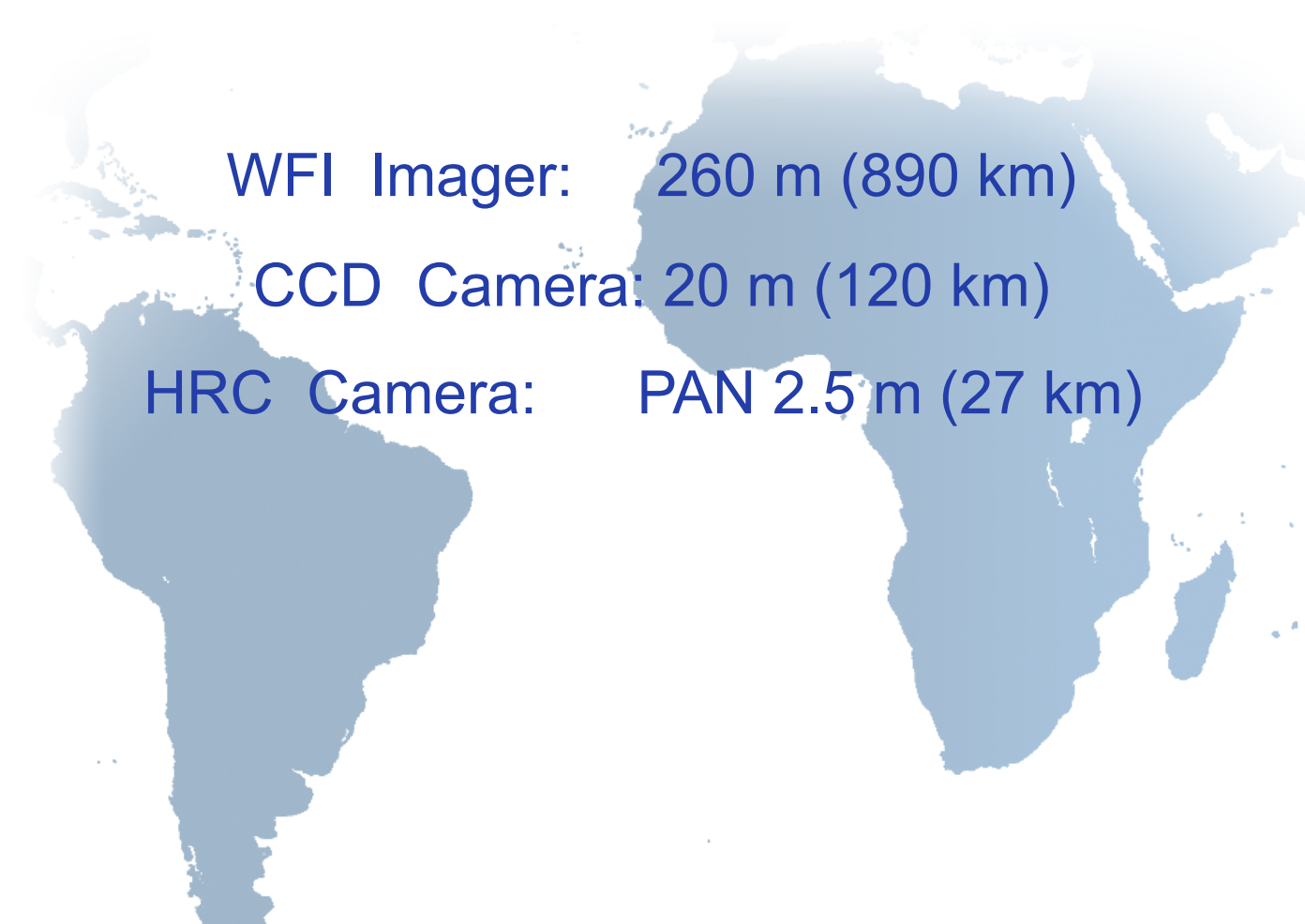
# CBERS for Africa

- ❖ During the GEO Ministerial Meeting in Cape Town (10/2007) the Brazilian and the Chinese governments agreed to establish a network of ground stations to cover Africa and to make the free distribution of image products to the African countries





# CBERS-2B Sensor Configuration



WFI Imager: 260 m (890 km)

CCD Camera: 20 m (120 km)

HRC Camera: PAN 2.5 m (27 km)



# CBERS 3 Schedule and Sensor Configuration

**Initial Planned Launching Date >>> November-2012**  
**Next tentative schedule: May-2013**  
**Expected launching date: end-2013**

WFI 73 m (860 km)

MSS 40 m (120 km)

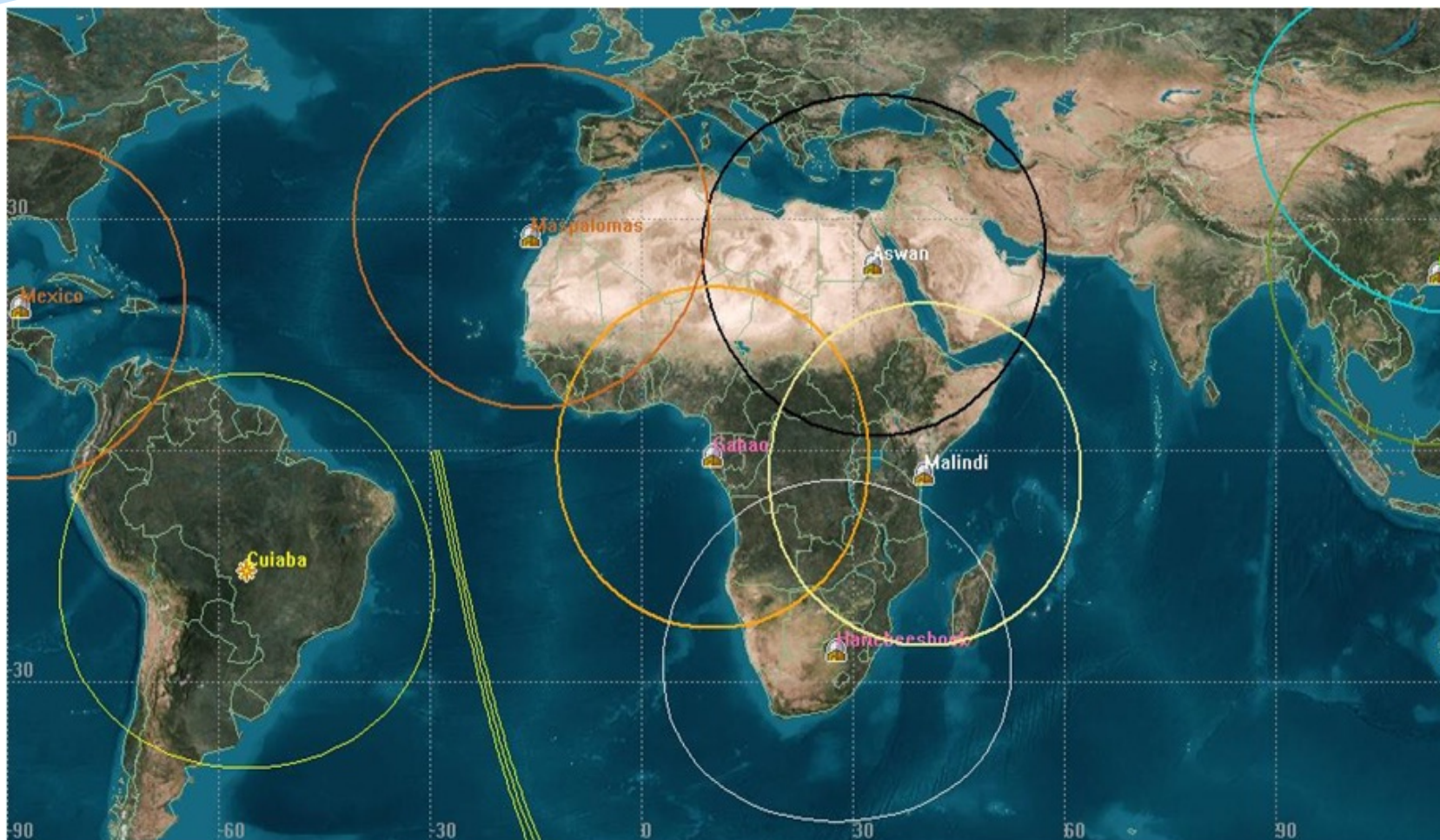
CCD 20 m (120 km)

MUX 10 m (60 km) - Multi-Spectral Camera (MUXCAM)

PAN 5 m (60 km)



# CBERS GROUND STATIONS





## Data Reception and Product Generation

CBERS retrospective data over AFRICA (HRC product) was broadcasted through GeonetCast-EUMTECAst during aprox 6 months (one image a day)

CSIR, Hartesbeesthoek, South Africa

INTA, Maspalomas, Canary Islands, Spain

AGEOS, Libreville, Gabon

ASI, Malindi, in Kenya (suspended)

NARSS, Aswan, in Egypt (suspended)

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**African Agency:** antenna system provider

**INPE:** ingesting, processing and archiving systems provider

(Alternative: on-board data recording)



## CONTRIBUTION ON GIS TOOLS and REGIONAL TRAININGS

❖ Improvement of GIS image manipulation / visualization tools **ILWIS** and **SPIRITS**, **with TerraView and its GeoDMA plugin.**

❖ Integration with SigmaCast and/or SIGMA

Training/Case Studies on

- ❖ Forest Management
- ❖ Agriculture Management / Crop Monitoring
- ❖ Remote Sensing theory/CBERS
- ❖ Image Processing (GIS tools),

## CONTRIBUTION ON REGIONAL TRAININGS

### DIFICULTIES:

- ❖ CBERS launching delay (impacting progress on product generation and training efforts).
- ❖ Lacking support to SigmaCast (offline solution)  
(we shall adapt an introduce SIGMA package  
(web oriented as alternative)