MINISTÉRIO DA CIÊNCIA E TECNOLOGIA
INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS

The SABIA-Mar Mission

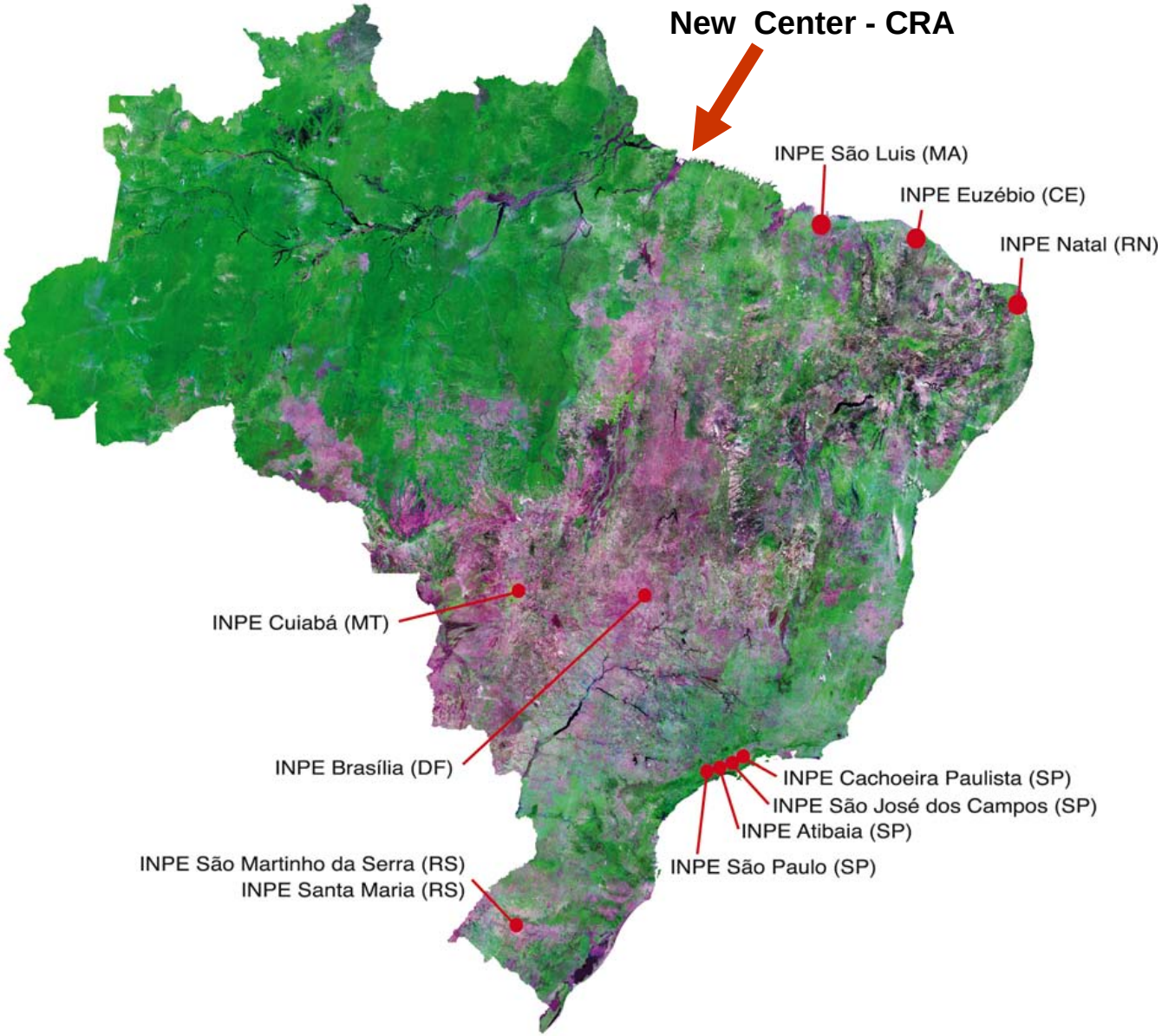
Marco Antonio Chamon

IOCCG
International Ocean-Colour Coordinating Group

Ministério da
Ciência e Tecnologia

BRASIL
UM PAÍS DE TODOS
GOVERNO FEDERAL

Facilities


New Center - CRA
INPE São Luis (MA)
INPE Euzébio (CE)
INPE Natal (RN)
INPE Cuiabá (MT)
INPE Brasília (DF)
INPE Cachoeira Paulista (SP)
INPE São José dos Campos (SP)
INPE Atibaia (SP)
INPE São Paulo (SP)
INPE São Martinho da Serra (RS)
INPE Santa Maria (RS)

Aerial view of INPE in S. J. Campos

Integration and Test Laboratory

Purpose

The SABIA-MAR mission was conceived to provide information and products to studies of ocean ecosystems, carbon cycling, marine habitats mapping, coastal hazards, and coastal land cover/land use.

Basic requirements

Global coverage – open ocean

Regional coverage – coastal zones

Visible, near infrared (NIR), thermal

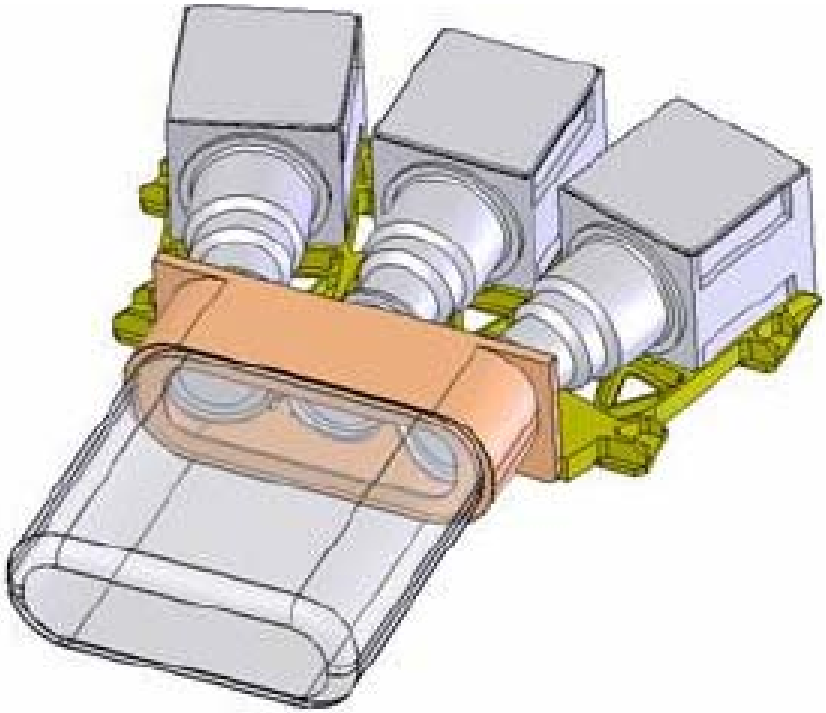
Daily revisit time for open ocean

Detailed imaging for coastal zones

Global Camera

Swath: 2200 km

Resolution: 1.1 km

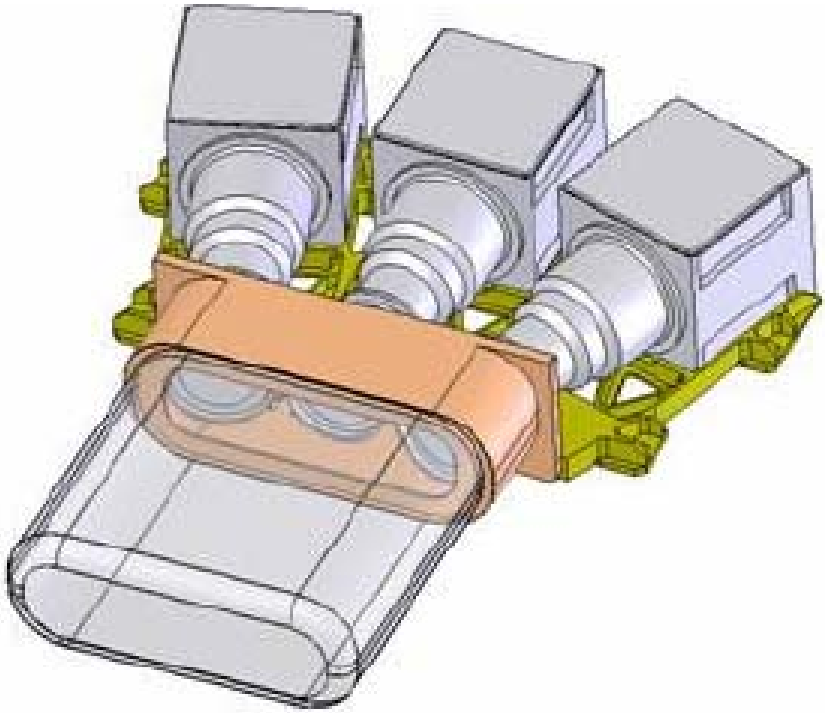


Intended to open ocean coverage

Regional Camera

Swath: 200 km

Resolution: 200 m

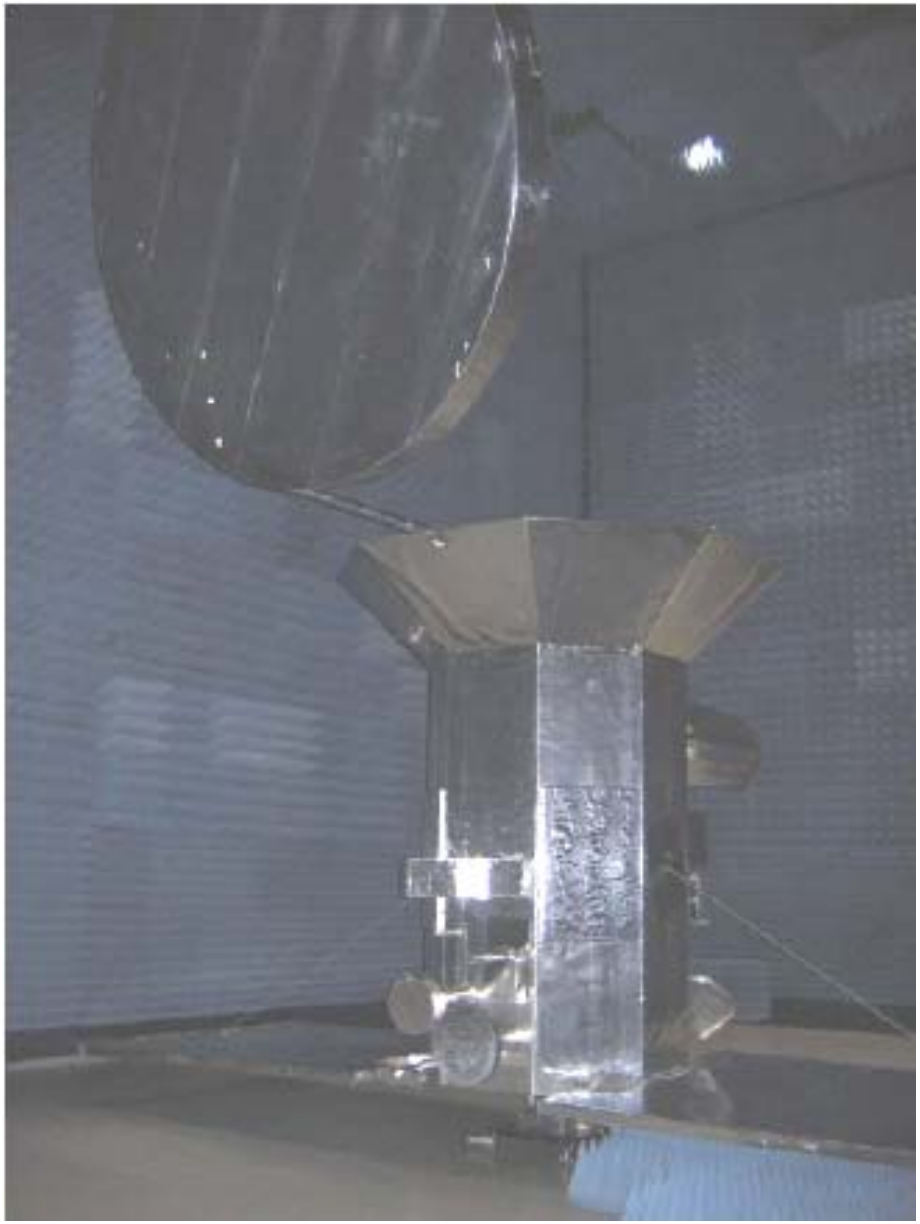


Intended to costal region coverage

Spectral Bands (μm)

•(0.380)	•0.680
•0.412	•0.710
•0.443	•0.750 (or 0.765)
•0.490	•0.865
•0.510 (or 0.531)	•(1.010)
•0.555	
•0.620	•3.8
•0.665	•10.8
	•11.8

Platform



Sensors

Main instruments

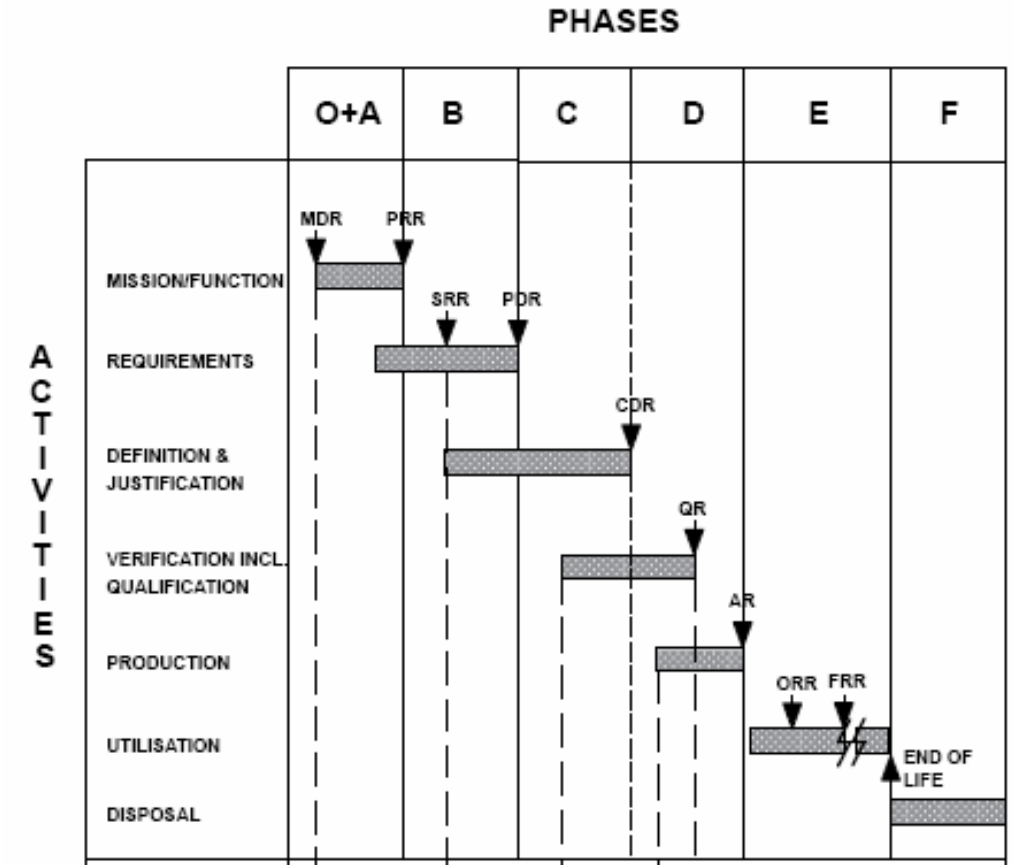
- Global camera
- Regional camera

Secondary payloads

- SST camera
- Land imaging camera

Schedule

- 5 years from now
- 9 months for Phase 0/A



Understanding Global Change

source:
IGBP

How is the Earth's environment changing, and what are the consequences for human civilization?


Thank you !
Courtesy: Guy Brasseur, NCAR, EUA