

Opportunities in Science and Engineering with Space Applications at INPE

Presented by:

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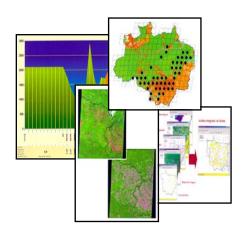
Scientific and Technical Advisory Committee

For the occasion of the

54th Session of the Technical and Scientific Subcommittee of COPUOS held in Vienna, Austria from January 30th to February 11th, 2017.



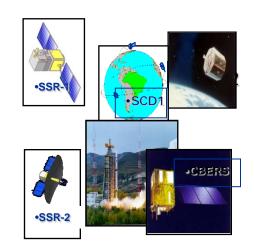
Areas of Activities



Earth Observation



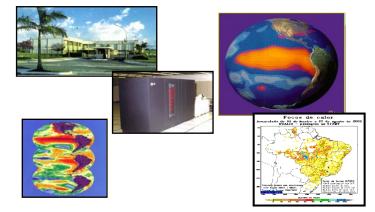
Space Science



Space Technology



Earth System Sciences

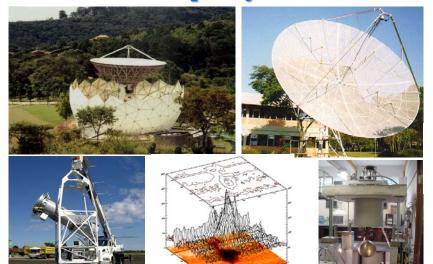


Meteorology and Climate

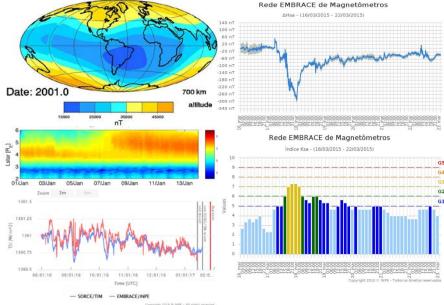


Space and Atmospheric Sciences (CEA)

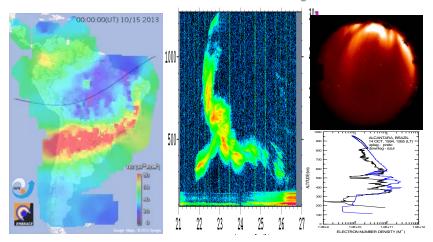
Astrophysics



Space Geophysics



Aeronomy



Balloons Launcher





Space Weather Effects www.inpe.br/spaceweather







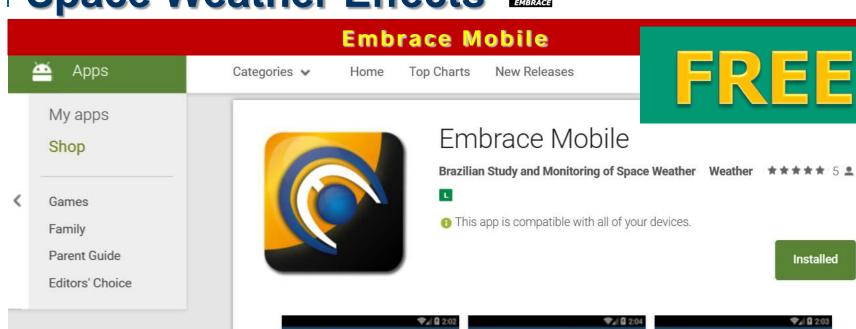




Space Weather Effects

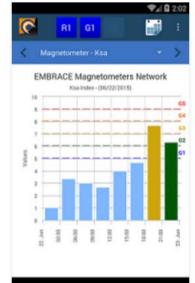


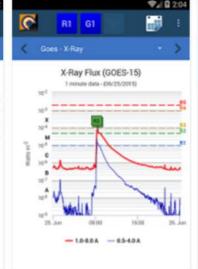
www.inpe.br/spaceweather



Installed









due to be Earth directed on 12th-13th August. By now, and for the next 48 hours, both the



Space Weather Effects www.inpe.br/spaceweather



Find the product to download DATA





Integration and tests laboratory - LIT











Integration and tests laboratory - LIT







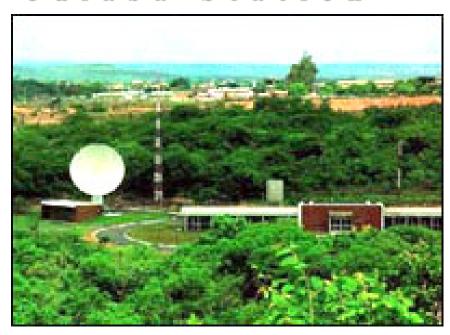




| Ground Systems

Cuiaba Station

Alcantara Station





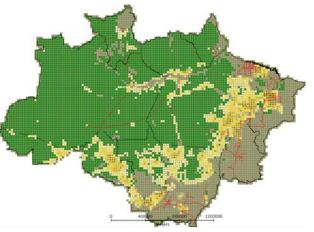
SCD-1 **GOES-15** SCD-2 COSMIC-1/2 COROT

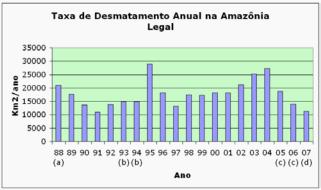
CBERS Series



Earth Observation (OBT)





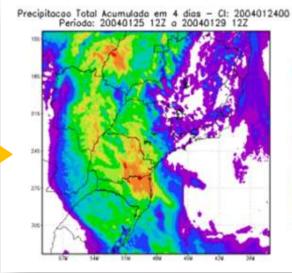


- Remote Sensing Research on Geology, Water Resources, Oceanography, Ecosystems and Territorial Management and Monitoring.
- Technological Development: SPRING, Terralib, etc.
- Amazônia Program Monitoring of Deforestation in the Amazon Region
- Forest Fire Monitoring and Prevention

INPE

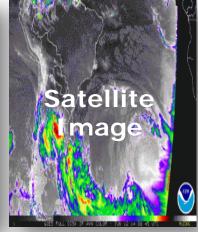
Daily Weather Forecast





Weather Products



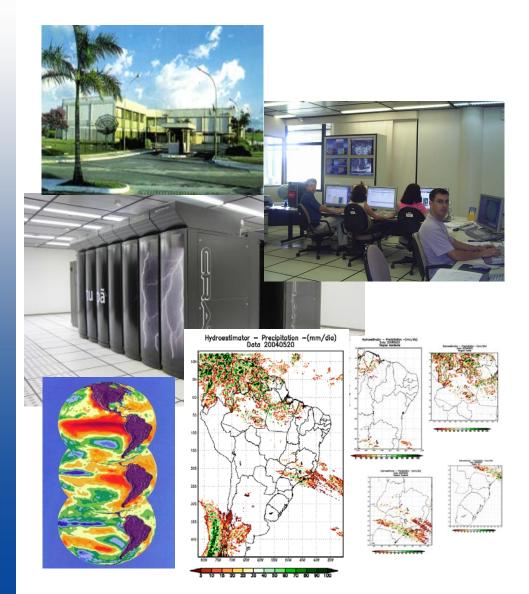








Weather Forecast and Climate Studies



- Weather and Climate numerical forecasting
- ✓ Supercomputer facility CRAY XTS (258 Teraflop/s – TOP(2012) 16.32 petaflop/s).
- Research and Development:
 - R&D in weather forecast and climate change;
 - R&D in Climate and Hydrology of Amazon Ecosystems;
 - R&D in the áreas of Climate, Weather, Micro-Meteorology, Ocean-Atmosphere interaction and Marine Meteorology.



OBRIGADO

