



International Spaceborne Imaging Spectroscopy Technical Committee



*Karl Staenz & Andreas Mueller
Co-Chairs*

GRSS AdCom Meeting

Melbourne, July 19 - 20 , 2013





ISIS WG Matters

- **New ISIS Chair**
 - Andreas Mueller (DLR)
 - Current co-chair
- **New ISIS co-chair**
 - To be selected during ISIS TC Meeting at IGARSS'13





ISIS ACTIVITIES

- **ISIS WG Sessions at IGARSS'13**
 - Calibration of and Cross-Calibration with Orbiting Imaging Spectrometers, Wed., Room 6, 15:40-17:20
 - Spaceborne Imaging Spectroscopy Missions – Current and Future Activities, Thurs., Room 11, 8:20-12:10
- **Next ISIS TC meeting at IGARSS'13**
 - Wed., Room 6, 17:30-18:30





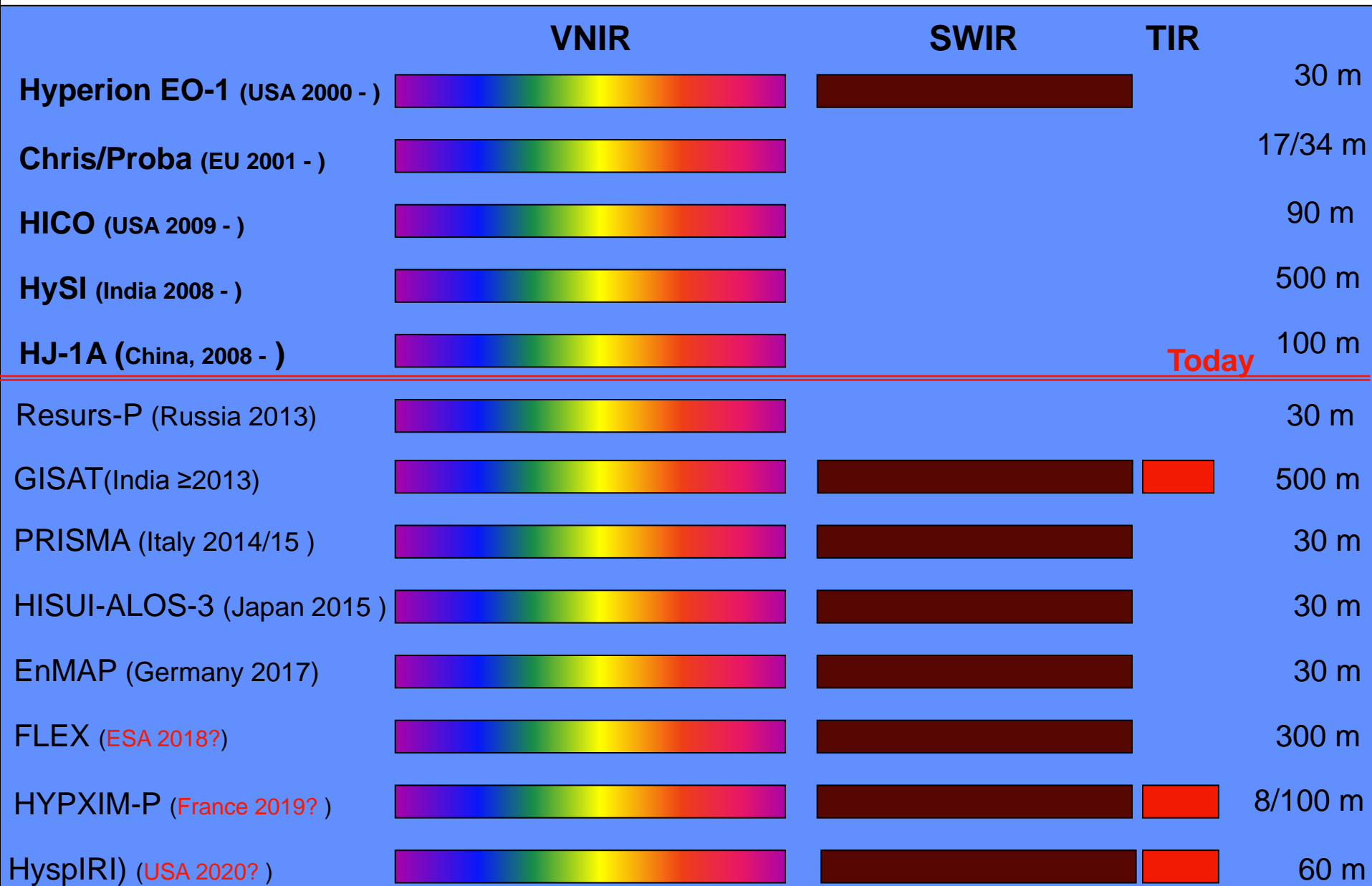
Mission UPDATES

- **Currently 5 missions in space with limited data capacities**
- **New Russian mission ready to be launched in 2013. It has the following sensors on board:**
 - **Hyperspectral VNIR sensor (30-km swath width, 192 spectral bands, 30-m spatial resolution)**
 - **Narrow-swath multispectral VNIR sensor (38-km swath width, 7 bands + 1 PAN, 3 to 4-m spatial resolution (1 m PAN))**
 - **Wide-swath multispectral VNIR sensor (97/441-km swath width, 5 bands + 1 PAN, 24/120 m spatial resolution (12/60 m PAN))**
- **Several missions under construction (EnMAP (Germany), PRISMA (Italy), HSUI (Japan))**



Current and Planned Civilian Hyperspectral Satellite Missions

(Updated July, 2013)

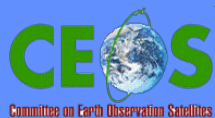
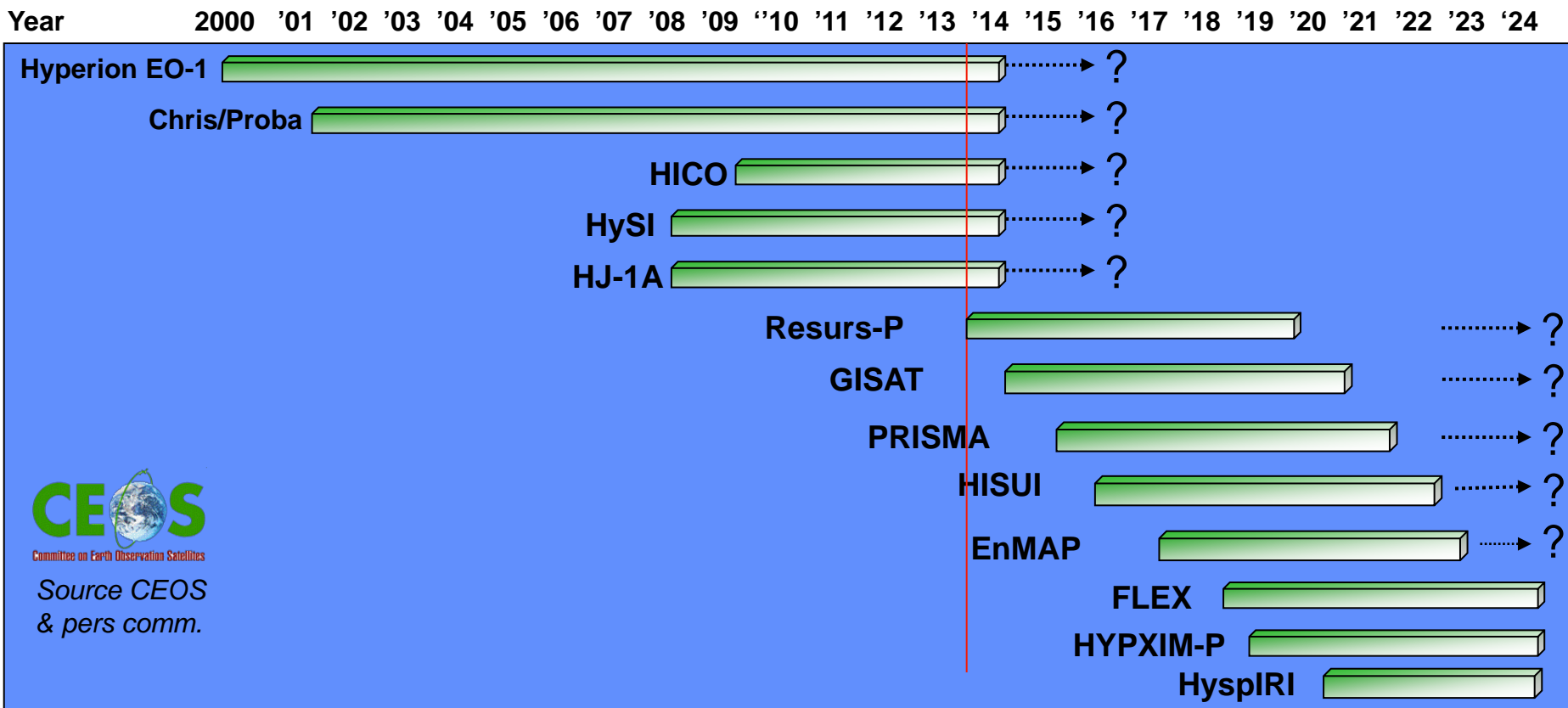


Today



A "Virtual Constellation" of Spaceborne Imaging Spectrometers

(updated July 2013)



Source CEOS
& pers comm.

- Proceeded by unsuccessful proposals for e.g. ARIES, NEMO, Hydice, SPECTRA, etc.
- Supported by high Signal-to-Noise Airborne HSI systems
- Wide data access and data policies still are a key challenge
- Technical comparison of systems is difficult





Purpose of ISIS

The ISIS TC provides a forum for technical and programmatic discussion and consultation among national space agencies, research institutions and other spaceborne imaging spectrometer data providers.

<http://www.grss-ieee.org/Resources/TechCommittees>

