

Giuseppe Ottavianelli, Head of the Applications Section, ESA **Marco Celesti**, CHIME Mission Scientist, ESA

We have come a long way since...



...NASA EO-1 Hyperion Hyperspectral Imager, launched in November 2000, operational until March 2017...

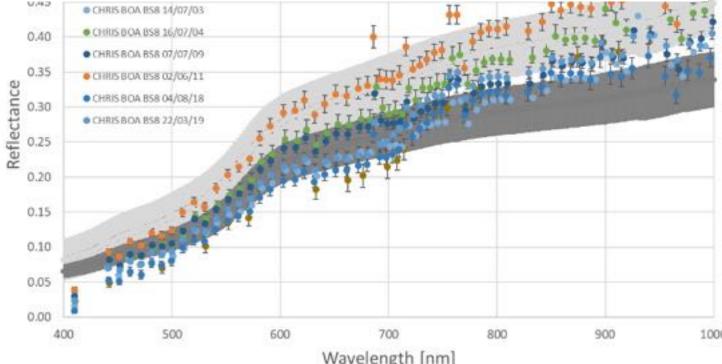
...ESA mission Project for OnBoard Autonomy-1 (Proba-1) with its Compact High Resolution Imaging Spectrometer (CHRIS), launched October 2001...

Time-series comparison for the Bare Soil (BS8) site with Albufera, Spain, 5 two in-situ spectra plotted for comparison (SEN3EXP

BS11 and SPARC BS8).



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ela, Mexico, Aug 22





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The 3 main objectives



- Assess the status of current and planned international imaging spectroscopy missions
- Review the key related activities and projects in the relevant science and application areas
- Strengthen international cooperation and coordination in the space and ground segment operation, calibration and validation, products definition, data access and data exploitation

Overview of Programme and logistics



weune	sday 19 October	6 630	
TRANSPORTA	ATION INFO 08:00 Departure from Piazza Marconi (Frascati)		
AIRONE			
0.20.0.00	1 Registration and coffee		
9:00-9:45	1.2 Welcome and Introduction (ESA)	Giuseppe Ottavianelli, ESA Marco Celesti, HE Space for ESA - European Space Agency	
9:45-11:00	1.3 Spaceborne Hyperspectral Missions Overview	Jens Nieke, ESA-ESTEC Charles Miller, NASA Jet Propulsion Laboratory	
11:20-12:30 1.5 Spaceborne Hyperspectral Missions Overview - continue		Jens Nieke, ESA-ESTEC Charles Miller, NASA Jet Propulsion Laboratory	
13:30-15:30	1.7 Harmonisation of data formats, products definition and toolboxes - Part 1	Marco Celesti, HE Space for ESA - European Space Agency Philip Townsend, University of Wisconsin	
15:50-18:00	1.9 Harmonisation of data formats, products definition and toolboxes - Part 2	Jeff Dozier, University of California, Santa Barbara Thomas Painter, UCLA	
18:00-19:00	1.10 On-board data processing	Giorgio Licciardi, ASI - Agenzia Spaziale Italiana Nicolas Longepe, ESA -ESRIN	
19:00-20:30	1.11 Ice-breaker		
11:00-11:20	Coffee break		
	Lunch break GROUP PHOTO		
15:20-15:50	Coffee break		

Thursday | 20 October



TRANSPORTATION INFO 08:00 Departure from Piazza Marconi (Frascati)

AIRONE

8:30-10:20	2.1 Mission calibration and data validation (up to surface reflectance) - part 1	Valentina Boccia, ESA Robert Green, NASA JPL
10:50-12:00	2.2 Mission calibration and data validation (up to surface reflectance) - part 2	Ferran Gascon, ESA Sabine Chabrillat, GFZ Potsdam / Leibniz Univ Hannover
12:00-12:30	2.3 Geo/biophysical parameter and applications - Plenary Introduction	Marco Celesti, HE Space for ESA - European Space Agency Giuseppe Ottavianelli, ESA
13:45-15:30	2.4.1 Vegetation traits retrieval and applications (e.g. agriculture, forestry) - part 1	Charles Miller, NASA Jet Propulsion Laboratory Giuseppe Ottavianelli, ESA
16:00-18:00	2.5.1 Vegetation traits retrieval and applications (e.g. agriculture, forestry) - part 2	Philip Townsend, University of Wisconsin Marc F. Paganini, European Space Agency (ESA)

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13:45-15:30	2.4.2 9		Uta Heiden, German Aerospace Center (DLR) Eyal Ben Dor, Tel Aviv University
16:00-17:00	2.5.2	mospheric products and applications	Tsuneo Matsunaga, National Institute for Environmental Studies Antony Delavois, ESA
17:00-18:00	2.6.2	inerals (composition / abundance) and urban applications	David Thompson, Jet Propulsion Laboratory, California Institute of Technology Stefano Pignatti, Istituto di Metodologie per l'Analisi Ambientale

8:00-8:30	Welcome Coffee
10:20-10:50	Coffee break
12:30-13:30	Lunch break
13:30-13:45	Transfer time to splinter room
15:30-16:00	Coffee break

TRANSPORTATION THEO. 18:20 Departure from La Collinetta to Frascati center

19:45-22:00 Dinner (non-hosted) | Locat in: Belvedere dal 1933 Restaurant (Frascati) - Via Regina Margherita 29

Friday | 21 October



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TRANSPORTATION INFO 0	18:00	Departure from	Piazza Marconi	(Frascati)
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AIRONE

8:30-10:30	3.1.1 Vegetation traits retrieval and applications (e.g. agriculture, forestry) - part 2	Anke Schickling, Space Agency at the DLR Luigi Ansalone, ASI
11:00-13:30	3.3 Overall discussion, conclusions and future recommendations	Marco Celesti, HE Space for ESA - European Space Agency Giuseppe Ottavianelli, ESA

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8:30-9:30	3.2.1 Inland and coastal waters products and applications	Marie-Helene RIO, ESA/ESRIN Ils Reusen, VITO
9:30-10:30	3.2.2 Cryosphere (snow/ice) products and applications	Roberto Colombo, Università Milano Bicocca Uta Heiden, German Aerospace Center (DLR)

8:00-8:30	Welcome Coffee	
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13:30-14:30	Lunch break	

TRANSPORTATION INFO 15:15 Departure from La Collinetta to Frascati center

Rich programme and focus on discussion



The Organising Committee decided to keep all contributions as oral presentations.

A dense programme with high-quality inputs.

→ Importance of the Q&A and discussion sessions

Speakers need to keep the schedule of their allocated timeslot.

Session Chairs moderate the discussion and capture the key messages.



Your contribution towards zero impact



https://www.treedom.net/it/organization/esa-esrin/event/2ndhyperspectralworkshop





100 TREES: agroforestry projects in rural communities in Africa and South America, supporting sustainable ecosystems and allowing thousands of farmers to cover the initial costs of planting new trees, ensuring food autonomy and income opportunities over time: environmental, social and financial benefits to their communities.











Logistics









2nd Workshop on International Cooperation in Spaceborne Imaging Spectroscopy

