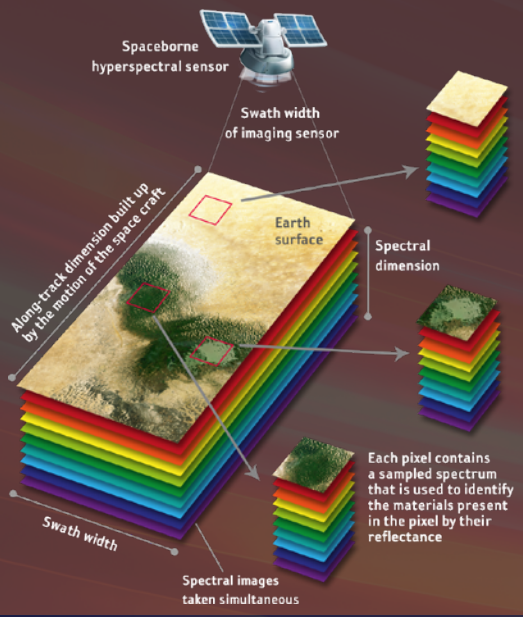
DEADLINES

Invitation and call for abstracts	mid–March 2019
Deadline for abstract submission	30 April 2019
Practical information and programme	24 May 2019
Workshop	9–11 July 2019



ORGANISATION

The Workshop sessions will include, oral presentations, discussion rounds and an interactive session towards the end of the Workshop to establish a summary of findings, actions and recommendations for the way ahead.

The official language of the Workshop is English. No participation/registration fee will be charged. Participants are expected to finance their own travel and accommodation expenses.

ORGANISING COMMITTEE

Adams J. (ESA-ESRIN, Frascati, Italy) - **Ananasso C.** (European Commission, Brussels, Belgium) - **Foerster S.** (GFZ Potsdam, Potsdam, Germany) - **Gascon F.** (ESA-ESRIN, Frascati, Italy) - **Green R.** (NASA/JPL, Pasadena, USA) - **Guanter L.** (Technical University of Valencia) - **Heiden U.** (DLR, Potsdam Germany) - **Loizzo R.** (ASI, Matera, Italy) - **McCubbin I.** (NASA/JPL, Pasadena, USA) - **Nieke J.** (ESA-ESTEC, Noordwijk, The Netherlands) - **Painter T.** (NASA/JPL, Pasadena, USA) - **Rast M.** (ESA-ESRIN, Frascati, Italy) - **Schaepman M.** (University of Zürich, Zürich, Switzerland) - **Schimel D.** (NASA/JPL, Pasadena, USA)

CONTACT

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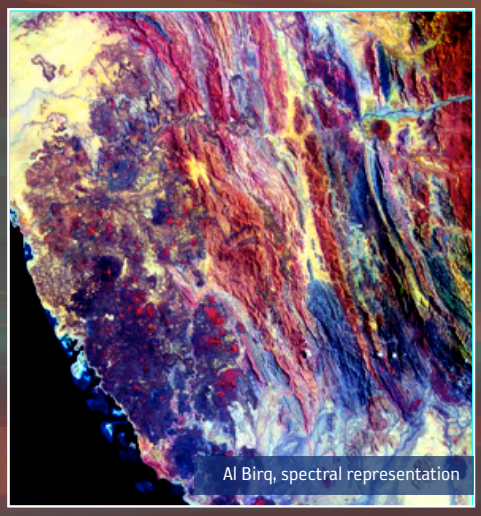
Al Birq, spectral representation

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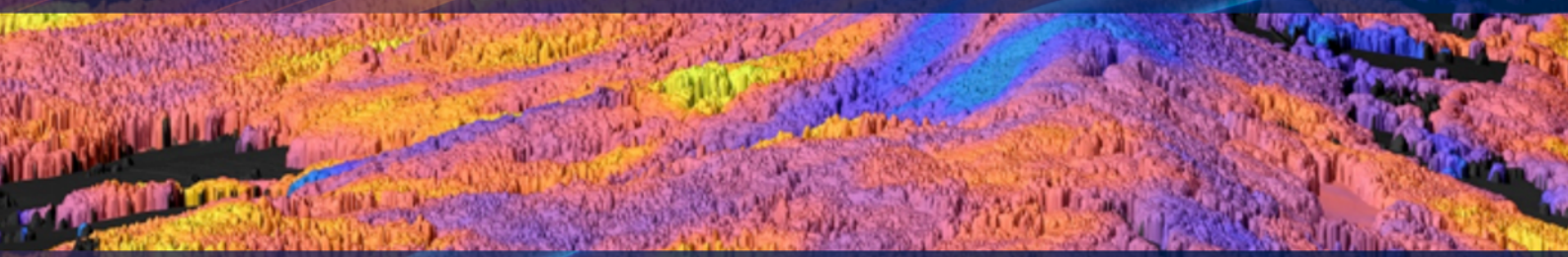
More info at: **https://nikal.eventsair.com/hyperspectral-2019/website**

→ IMAGING SPECTROSCOPY - COOPERATION IN SPACE

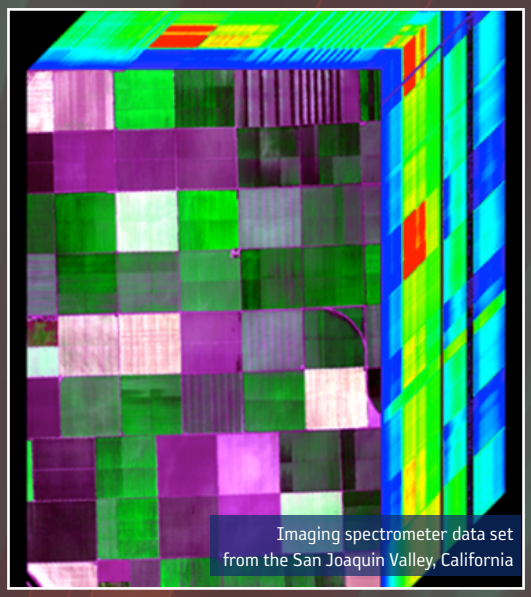
From Hyperion & CHRIS via PRISMA & EnMAP to SBG & CHIME



9–11 July 2019 | ESA–ESRIN | Frascati (Rome), Italy

BACKGROUND

Imaging spectroscopy in the visible to shortwave infrared wavelength range is a powerful tool for terrestrial Earth observation that has the potential to provide next generation geo/biophysical products. Imaging spectroscopy from space has gradually evolved from technological demonstration projects and scientific studies towards operational and commercial applications and is today one of the fastest growing research areas in remote sensing. Currently, several hyperspectral spaceborne systems have recently been deployed or are under development and in preparation to be launched within the next few years from both polar orbits as well as from the International Space station. The panoply of upcoming imaging spectrometers in space calls for joint collaborations and synergies among the missions, including also synergies with the multispectral sensors already operating or waiting in the international launch queues. The main objective of this workshop is to recommend future international coordination permitting cooperation in the deployment, operation, and exploitation of space-based imaging spectrometers for terrestrial and coastal scientific and operational applications.



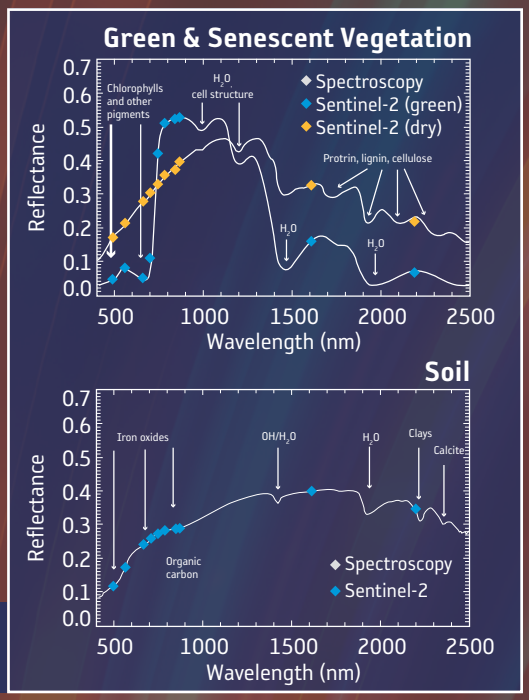
Imaging spectrometer data set from the San Joaquin Valley, California

PARTTICIPATION

The Workshop participation is by invitation only with the number of participants limited to 100. The intended audience includes international representatives from research and applications (incl. operational services, such as provided by the Copernicus Programme), active in the field of imaging spectroscopy for terrestrial applications, as well as representatives of international imaging spectroscopy satellite projects.

WORKSHOP OBJECTIVES

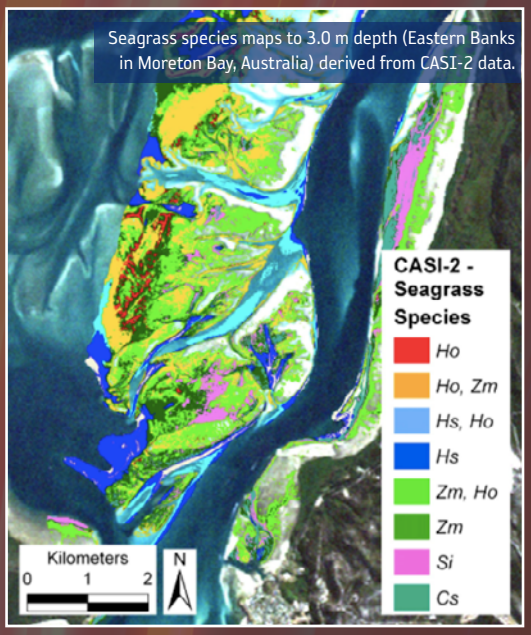
1. Assess the status of current and planned international imaging spectroscopy missions for terrestrial and coastal applications
2. Review the main related activities and projects in the associated science and application areas
3. Establish possibilities of international cooperation in the mission and ground segment operation, calibration and validation, data access and data exploitation



Reflectance spectra for different Earth surface materials at high spectral resolution and resampled to the spectral response of the multispectral instrument onboard Sentinel-2.

WORKSHOP MAIN TOPICS

- Exchange and harmonisation of geo/biophysical parameter retrieval schemes
- Mission calibration and data validation plans and philosophy for data quality assurance and uncertainty quantification
- Harmonisation of data formats and products and their possible standardisation
- Harmonisation of atmospheric and topographic correction schemes/procedures
- Harmonisation of pre-flight characterisation and in-flight cross-calibration of international missions
- International joint airborne/field deployments/campaigns, especially large regions and time series
- Coordination of data acquisition plans, including orbital phasing of international missions for improved revisit/coverage and establishment of longer time series
- Potential synergies with other current and future space-based systems (e.g. US Landsat and the Copernicus Sentinels)
- Consistency of product retrievals to facilitate constraints and validation of regional to global climate and hydro-climate modelling
- Coordination of research and training activities.



Seagrass species maps to 3.0 m depth (Eastern Banks in Moreton Bay, Australia) derived from CASI-2 data.