



Venüs session

Biosphere and climate, from diagnosis to adaptation: the role of space observations

Toulouse Space Show June 2018

Tuesday, 26/06 from 9h00 to 12h00

Where: Room Ariane 2

Attendance by invitation only

Topic

Venüs is a joint space system venture for Earth observation (EO) of the Israeli and French governments, executed by their respective national space agencies (ISA and CNES). Venüs is designed to provide close and regular monitoring of vegetation on Earth's surface. It was launched on August 1st, 2017 from Kourou.

Venüs unique features are to acquire high resolution (5m), multi-spectral (12 bands) images every second day over 110 sites of interest all around the world. Every two days, for every site, the satellite takes a picture with constant view angle, constant lighting condition, always at the same fly by time. No other sensor currently in orbit combines this kind of revisit rate and resolution for keeping track of vegetation evolution.

Programme

The session is organized in three stages:

- The Venüs mission, the results of the commissioning phase, doing science with Venüs
- Introductory presentation to the round table
- Round-table "Biosphere and climate, from diagnosis to adaptation: the role of space observations"

☐ 9h00 – 10h30 - Presentation of the Venüs mission

- Welcome and introduction – Marie-Anne Clair (CNES) and Avi. Blasberger (ISA)
- The Venüs project and the French-Israeli cooperation - P. Ferrier (CNES)
- Objectives and characteristics of the scientific mission - G. Dedieu (CESBIO/CNES), A. Karnieli (BGU)
- Results of the in orbit commissioning phase, image quality monitoring, summary of calibration methods - P. Gamet (CNES)
- Atmospheric corrections and data distribution - O. Hagolle (CESBIO/CNES), M. Dejus (CNES)
- Which science with Venüs? - G. Dedieu (CESBIO/CNES), A. Karnieli (BGU)
- Questions and discussions

☐ 10h30 - 10h50 – Introductory presentation to the round table: Biosphere and climate, from diagnosis to adaptation: the role of space observations – Gérard Dedieu and Philippe Maisongrande (CNES)

☐ 10h50 – 11h50 Round table: 2020-2035: which EO missions for the biosphere? Which organization: processing, products, ecosystems and value chains

