Training description for the invitation to the Teams meeting

In the context of the International Charter Space and Major Disasters, the European Space Agency is offering a new online processing environment connected to COS-2 to support PM/VAs operations during an activation. The ESA Charter Mapper offers the capability to access, visualise, and process on-line the EO data collection of a charter activation. This short training (4 hours in total) provides an overview of the ESA Charter Mapper processing environment. A first section is focused on EO data visualisation while in the second are explained the EO data processing capabilities of the system.

Training Agenda

Description

To support the Charter Project Manager (PM) and the Value Adders (VA) in the context of activations of the International Charter Space and Major Disasters, the COS-2 system has been augmented with an online processing environment, named [ESA Charter Mapper](). The ESA Charter Mapper is intended to ease access and process of the EO data collection of a charter activation. It is built and integrated in COS-2 to support PM/VAs operations by offering the capability to access, visualise, and process satellite imagery on-line. The primary benefit is that imagery is ingested and calibrated systematically irrespective of the original format. This allows PM/VAs to directly focus on visual analysis at full-resolution, and employ multiple processing services to transform EO data into geo-information. This short training provides an overview to the ESA Charter Mapper processing environment and is meant for new users who want to get familiar with the system and understand the potentials of this tool for EO data exploitation in a charter activation.

Contents

The webinar is structured into two sections of 2-hours each. The first one is focused on EO data visualisation and explains how to:

- access the platform and enter the activation workspace,
- use the activation workspace GUI,
- employ multiple filter criteria to find the EO data of interest from all acquisitions,
- visualise EO data at full resolution,
- combine intra-sensor bands,
- compare pre- and post-event images.

Subsequently, the second section covers the EO data processing capability of the Charter Mapper by explaining how to:

- access multiple on-demand EO processors,

- identify a suitable pair over an AOI for change detection analysis,
- submit on-demand processing,
- visualise and interpret the results,
- compare results with input EO data using the feature basket.

Both sections will be focused on charter activations for flood activated over rural and urban areas using SAR and Optical EO data.

Schedule

Tuesday, September 6, 2022
- Session 1: from 10:00 to 12:00 (Nigeria time GMT+1)
- 1-hour break
- Session 2: from 13:00 to 15:00 (Nigeria time GMT+1)

Useful information

The online documentation of the ESA charter mapper is available at: https://docs.disasterscharter.org

Check out also the ESA web news and the ESA Charter Mapper video available at https://eo4society.esa.int/2022/05/24/advanced-cloud-based-environment-to-support-immediate-disaster-response/.

The ESA Charter Mapper is implemented by Terradue under the responsibility of the European Space Agency. More info can be found at https://docs.disasterscharter.org/about/.