



Committee on Earth Observation Satellites

Working Group Calibration & Validation

CEOS WP : CV-20-01

Surface Reflectance measurements Intercomparison eXercise for vegetation (**SRIX4Veg**)

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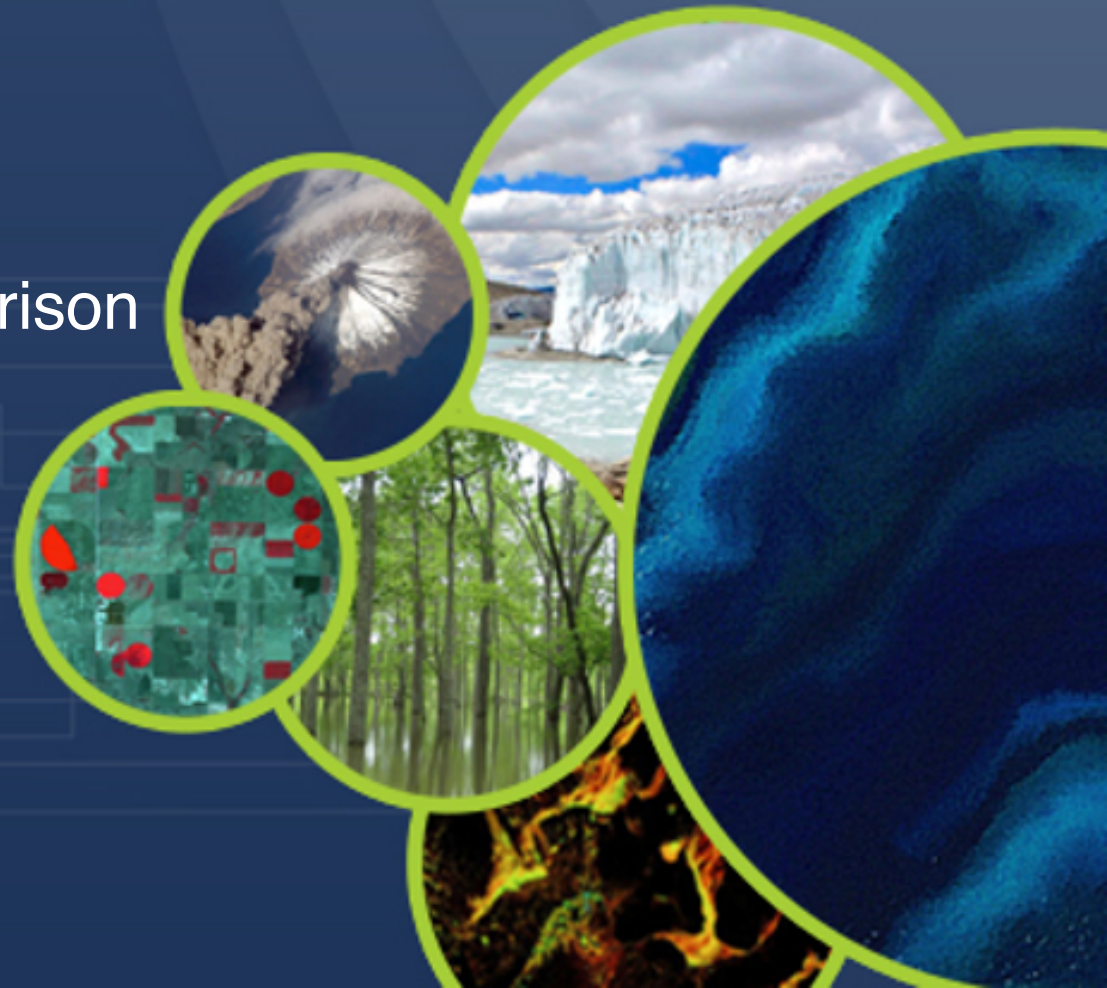
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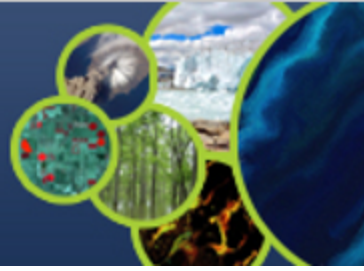
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Surface Reflectance measurements Intercomparison eXercise for vegetation (SRIX4Veg)



Surface Reflectance measurements inter-comparison exercise for vegetation (SRIX4Veg) represents a joint effort **to test user-based differences in surface reflectance fiducial reference measurements** used for validation of current SR satellite products, **and to ensure consensus on field protocols and global SR validation protocols.**

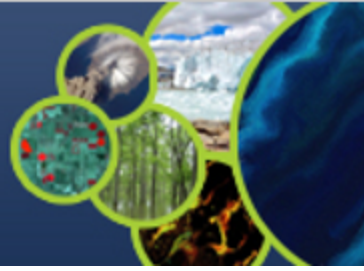
It is a continuation of CV-17, **including the use of drones and extending to other biomes (vegetation targets)** and conducted in the framework of the ESA FRM4Veg.

These objectives shall be achieved inviting the scientific community to a round-robin inter-comparison exercise and two international workshops to discuss the design of the SRIX4Veg exercise and the main outcomes.

Objectives:

- Perform SR intercomparison exercise for:
 - Testing user-based differences in surface reflectance measurements (including instrument and operator biases as well as measurement collection procedures);
 - Helping design field measurement protocols and validation methodology that are clear and can be easily applied by all users; and
 - Ensuring international buy-in and consensus on the field measurement protocols and global SR validation methodology developed.
- Organize two workshops before and after RR for discussion on protocols, field experiment and outcomes
- Publish RR inter-comparison results
- Develop protocols for global SR validation (field radiometry, drones, others)





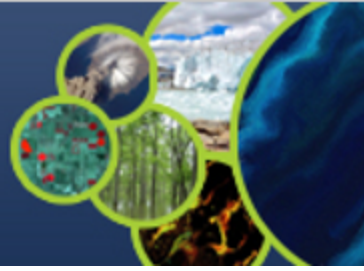
ESA FRM4Veg activities postponed 1 year due to COVID-19, so the SRIX timeline has been modified accordingly.

Re-start of FRM4Veg Phase2 – Q1/2021

- **Preliminary Schedule: 2021 – 2022**
 - Experiment Call (Q2 2021)
 - First Workshop (Q1 2022)
 - SRIX4Veg exercise (Q2 2022)
 - Second workshop (Q3 2022)
 - SRIX4Veg report (Q4 2022)
 - SR validation protocol (Q4 2022) → Q2 2023
- Contributing Entities: ESA, GA, NPL, CSIRO, IVOS, LPV....
- Funding support (workshops): ESA Earthnet (FRM4Veg project)



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Thank you for your attention

