

# International Earth Surface Working Group - *IESWG*

## Goal:

Gather requirements for Earth observations specific to surface observations that can enhance both our understanding and ability to monitor the components of the Earth system.

Objectives of the IESWG include (for full details see [IESWG ToR](#)):

- Use of Earth Observation (EO)-data for **Cryosphere and Biosphere** modelling relevant to study processes at the land-atmosphere interactions;
- **Land Data Assimilation Systems (LDASs)** both current state and recent developments; sensitivity studies of surface model parameters to remotely sensed data;
- Radiative transfer and **emissivity/reflectivity model development**: VIS/IR/MW, review of current parameterization for forward modelling surface boundary;
- Retrievals of land surface parameters: product **stability and performance**;
- Facilitate and guide **continuity** of measurements to advance science

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## Objectives of IESWG-4 2022

### Learn, Interact and Active Reporting:

- Learn of some of the progress in current state-of-the-science for a range of applications using current surface sensitive Earth observations and modeling techniques
- Interact, ask questions, formulate some new ideas
- Report
  - Curate a document which contains a state of the science of observations used and design of Land Data Assimilation Systems, including formulations used
  - Create recommendations for collaborative efforts, and note other ongoing efforts bringing these to the attention of the group

Form **actions** which address reporting and our ability to support recommendations