The CEOS Land Product Validation Subgroup

Mission
To foster and coordinate quantitative validation of higher level global land products derived from remotely sensed data in a traceable way, and to relay results so they are relevant to users.

Web Site
https://lps.gsfc.nasa.gov

Now with structured information on validation stage, best practices, references, and links to products for each variable.

Organization
LPV Chair: Miguel Román LPV Vice Chair: Fernando González Secretariat: Jaime Nickerson

Goals
To increase the quality and efficiency of global satellite product validation by developing and promoting international standards and protocols for:

- Field sampling
- Scaling techniques
- Accuracy reporting
- Data & information exchange

Activities within the LPV Focus Areas

Land Cover
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b, T6c

Activities:
- Building a global land cover validation data set compatible with new high resolution land cover (LC) products.
- Providing guidance recommendations pertaining to estimation and validation.
- Development of a data management framework and guidelines for appropriate application of each dataset under development with training underway.
- Implementation of a Ground-Truth stage to land validation scheme is currently part of the EC COPERNICUS Global Land Monitoring Service.

Protocols and documents:
- MODIS Land Cover Type Product (MCD12Q1, 2016).

Surface Radiation
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b

Activities:
- Completing development of surface radiation protocols.
- Finalization of requirements document for validating and inter-comparing surface radiation products.

Protocols and documents:
- GOSAT (2013).

Soil Moisture
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b

Activities:
- Developing protocol for soil moisture derived from satellite data.

Protocols and documents:
- GOSAT (2013).

Fire/ Burned Area
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b, T6c, T6d, T6e, T6f

Activities:
- Developing protocol for burned area, active fire and fire frequency products.

Protocols and documents:
- GOSAT (2013).

Vegetation Indices
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b

Activities:
- Developing validation protocol for vegetation indices derived from satellite data.

Protocols and documents:
- GOSAT (2013).

Surface Radiation
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b

Activities:
- Developing protocol for surface radiation derived from satellite data.

Protocols and documents:
- GOSAT (2013).

Soil Moisture
ECV: GCOS IP 2016 - T3a, T3b, T4a, T4b, T6a, T6b

Activities:
- Developing protocol for soil moisture derived from satellite data.

Protocols and documents:
- GOSAT (2013).