

CEOS WORKING GROUP ON CALIBRATION & VALIDATION
Land Product Validation Subgroup

Jeff Morisette, LPV Chair, jeff.morisette@nasa.gov

Validation:

the process of assessing by independent means the quality of the data products derived from the system outputs

LPV operates under this definition, with the understanding that validation activities should consider user accuracy needs and feedback to algorithm improvements.

LPV Goals:

- to foster quantitative validation of higher level global land products derived from remote sensing data and relay results so they are relevant to users
- to increase the quality and economy of global satellite product validation *via* developing and promoting international standards and protocols for field sampling, scaling, error budgeting, data exchange for global land product validation
- to advocate mission-long validation and intercomparison programs for current and future earth observing satellites.

CEOS Validation Hierarchy

- Stage 1:** Product accuracy has been estimated using a small number of independent measurements obtained from selected locations and time periods and ground-truth/field program effort.
- Stage 2:** Product accuracy has been assessed over a widely distributed set of locations and time periods via several ground-truth and validation efforts.
- Stage 3:** Product accuracy has been assessed and the uncertainties in the product well established via independent measurements in a systematic and statistically robust way representing global conditions.

Land Product Validation Web site



Linked to the Committee on Earth Observing Satellite (CEOS) Working Group on Cal/Val (WGCV)
<http://lpvs.gsfc.nasa.gov>



Quick links to:

- Listserves
- Announcements
- WGCV
- CEOS and
- CEOS calendar



Pull-down menu for main topical areas:

- Land cover
- Biophysical
- Fire/Burn
- Surface Radiation

Each pull-down lists:

- Background
- Producers
- Meetings
- Case studies
- Intercomparisons

web curator: Jaime Nickeson

LPV News:

- CEOS special issue of *IEEE Transaction on Geoscience the Remote Sensing* focusing on the validation of global land products - due out summer 2006.
- "A joint initiative for harmonization and validation of global land cover datasets", by M. Herold et al., will be published in the IEEE TGARS special issue.
- CEOS report: *Global Land Cover Validation: Recommendations for Evaluation and Accuracy Assessment for Global Land Cover Maps* is now available.
 (contact Jeff.Morisette@nasa.gov for pdf file)
- Workshop:
Long Term Monitoring of Vegetation Variables using Moderate Resolution Satellites
 Missoula, Montana, 8-10 August 2006
 (registration is now open at <http://www.ntsg.umd.edu/VEGMTG/>)

