

Jeff Privette

Issue

- Some Inventory records submitted for variables and indicators that are not GCOS ECVs or Products
- Examples:
 - Normalized Difference Vegetation Index (NDVI) biomass, health proxy
 - Lambertian Equivalent Reflectivity simplified surface albedo proxy
 - Absorbing aerosol index -- UV-absorbing aerosols (e.g., dust, soot) proxy
 - Mass change -- Greenland / Antarctica, Ocean-bottom pressure, etc.
 - Carbon Flux from Biomass Burning
 - Sea-ice type -- proxy to ice age, related to ice thickness
 - Likely future submissions on derivative and statistical characterizations, e.g., extremes

Considerations

- Past practice
 - Accept some CDRs addressing non(-space-observable)
 GCOS variables
 - Very few cases
 - Based on references in GCOS-IP, e.g., as auxiliary/proxy data to GCOS variables or non-space-observable GCOS variables

Recommendations

- Accept in systematic manner and with caveats
 - Label as non-GCOS, non-validated (caveat emptor), and/or experimental
 - Require summary of demonstrated or potential climate value
 - Require summary of validation or correlation with climate phenomena
 - To relieve WGC from approving role, instruct agencies to provide these records in future updates of Inventory
 - Still need plan/policy for non-agency submissions

Rationale

- GCOS ECVs/IP represent only part of total climate community activity
 - Some non-ECVs already have strong record of climate value (e.g, NDVI)
 - GCOS cannot be completely current or comprehensive
- CDR production is expensive and often competitively awarded
 - Generally pursued based on legitimate (expected) societal and/or scientific value
 - Caveat: some fields are residual, intermediate, ephemeral, for debugging!
- Inventory already has records of insufficient length for climate applications
- Inventory process can be adjusted to handle non-ECVs at low(er) cost
 - Eliminate review, validation or gap analysis
- Greatest Inventory cost is the framework, not the data
 - IMO: it is a great tool and its potential value should be explored, utilized as reasonable
 - IMO: WGC's role must be bounded, but overall goal is help science, society