

# Information Quality Cluster

## **ESIP Summer Meeting 2015**

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# Objectives

- Bring together people from various disciplines to assess aspects of quality of Earth science data**
- Establish and publish baseline of standards and best practices for data quality for adoption by inter-agency and international data providers**
- Become an authoritative and responsive resource of information and guidance to data providers on how best to implement certain data quality standards and best practices for their datasets**
- Build framework for consistent capture, harmonization, and presentation of data quality for the purposes of climate change studies, Earth science and applications**
- Objectives evolve with participant inputs**

# Background (1 of 2)

- **ESIP work in years past**
  - **IQ Cluster kick-off Meeting – Jan 6, 2011**
  - **Data Quality Session – Santa Fe Summer Meeting – July 14, 2011**
  - **Led by Greg Leptoukh (NASA GSFC), who passed away on January 12, 2012**
  - **Data/Information Quality Birds of a Feather Session – Winter Meeting – January 2014, led by Carol Meyer**
  - **Information Quality Cluster session – Summer Meeting – July 2014, led by Gilberto Vicente**
  - **All focused on identifying challenges, use cases, representation of DQ/IQ to help users**

# Background (2 of 2)

## ■ Other relevant activities

- NASA Earth Science Data System Working Groups (ESDSWG) – Metrics Planning and Reporting WG (Product Quality Checklists) – 2010-2012
- *NASA ESDSWG Data Quality WG (Recommendations) – 2014-present*
- *NOAA Data and Stewardship Maturity Matrices – 2008 - present*
- EUMETSAT CORE-CLIMAX System Maturity Matrix (e.g., [http://presentations.copernicus.org/EGU2015-10158\\_presentation.pdf](http://presentations.copernicus.org/EGU2015-10158_presentation.pdf) - 2014)
- CEOS Essential Climate Variables (ECV) Inventory Questions
- GEOSS Data Quality Guidelines
- Quality Assurance framework for Earth Observation (QA4EO)
- ISO Metadata Quality Standards (19157:2013; 19158:2012)
- NCAR Community Contribution Pages

# Suggested Activities

- Coordinate use case studies with broad and diverse applications, collaborating with the ESIP Data Stewardship Committee and various national and international programs**
- Identify additional needs for consistently capturing, describing, and conveying quality information**
- Establish and provide community-wide guidance on roles and responsibilities of key players and stakeholders including users and management**
- Prototype conveying quality information to users using approach proposed by Vicente (Summer 2014)**
- Evaluate NASA ESDSWG DQWG recommendations and propose possible implementations.**
- Establish a baseline of standards and best practices for data quality, collaborating with the ESIP Documentation Cluster and Earth Science agencies.**
- Engage data provider, data managers, and data user communities as resources to improve our standards and best practices.**

# Gilberto Vicente's Suggestion ( at ESIP Meeting 7/2014)

