# Seeking Feedback from the ESIP Community on Two **Developing Dataset Maturity Assessment Models**

- Session Conveners: Ge Peng (CICS-NC/NCEI), Michael J. Brewer (NCEI), Ruth Duerr (Ronin), William Wright (BOM/WMO), and **Christina Lief (WMO)**
- **Session Type: Working Session with Presentations**
- Group Leads: Ruth Duerr, Christina Lief, Nancy Ritchey (NCEI), Sophie Hou (NCAR) and Ge Peng

Session Sched Link: http://sched.co/Eypn

Remote Participation Link: <a href="https://global.gotomeeting.com/ioin/733401397">https://global.gotomeeting.com/ioin/733401397</a>

**Remote Participation Access Code:** 733-401-397 Remote Participation Phone #: +1 (408) 650-3123















# **Session Agenda**

#### Part I: Presentations (~30 mins)

- Ge Peng Opening remarks & MMs status (5–8 mins)
- Ruth Duerr Introduction to NCEI/ESIP-DSC Data Use and Services Maturity Matrix (MM-Serv) (10 mins)
- **Christina Lief** Introduction to a WMO-Wide Stewardship Maturity Matrix for Climate Data (SMM-CD)

#### Part II: Reviewing (~60 mins)

- **Group one** MM-Serv (group leads: G. Peng, S. Hou, R. Duerr)
- Group two SMM-CD (group leads: C. Lief, N. Ritchey, G. Peng)

## Why Providing Quality Information Is Important?

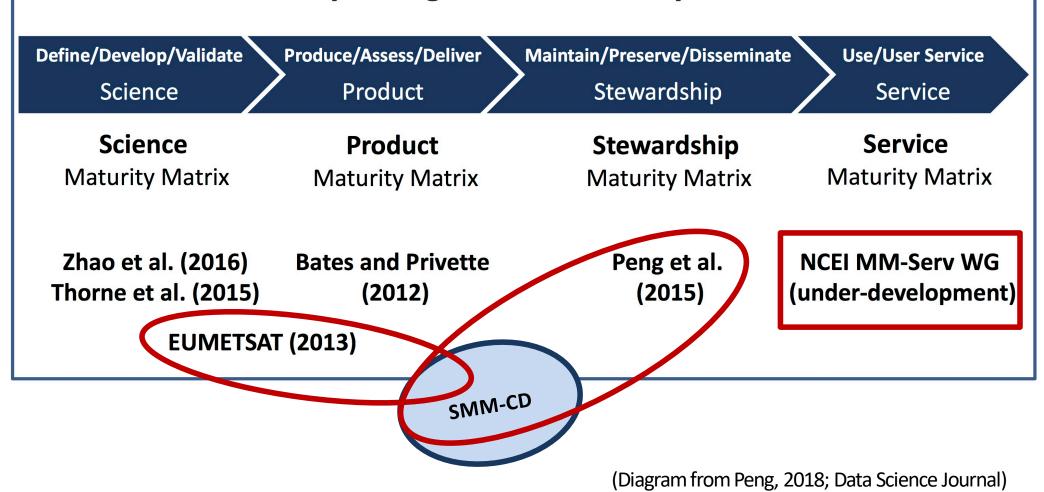
- Be compliant with federal and agency requirements
- Meet users' requirements
- Ensure trustworthiness of data products and services

## Information Quality Is Multidimensional

- Science Quality defined in terms of accuracy, precision, uncertainty, validity and suitability for use.
- Product Quality degree to which the data product is produced and described correctly.
- **Stewardship Quality** degree to which the data product was being preserved and cared for properly.
- Service Quality how easy it is for users to discover, get, understand, trust, and use a given data product, as well as the level of user engagement.

(Based on Ramapriyan et al., 2017; D-Lib Magazine)

#### **Data Product Lifecyle-Stage-Based Maturity Assessment Models**



#### **Status of MM-Serv**

### Developed jointly by NOAA's NCEI and ESIP DSC -> External Review

Maturity Scale Key Component	Level 1 - Ad Hoc Not Managed	Level 2 - Minimal  Managed Limited	Managed Defined, Partially Implemented	Level 4 - Advanced  Managed  Well-Defined, Fully Implemented	Level 5 - Optimal  Level 4 +  Measured ,  Controlled , Audit	
Data Discoverability	The state of a dataset being easy to be found					
Services Accessibility	The state of services being accessible for the dataset					
Services Usability	The state of services being easy to use for the dataset					
Data Use	The state of a data product's use, usability, and understandability					
Data Impact	The state of product impact being assessed & publicly available					
Data Monitoring	The state of the data product being utilized for direct and indirect monitoring services					
Data Services	The state of a data product being available and distributed					
Customer Services	The state of customer service and subject matter experts being available to users supporting the data product					
Customer Engagement	The state of user engagement for the data product					

# Aspect

#### **Status of SMM-CD**

- Developed under the WMO High Quality Global Data Management Framework
- External Review (Due Tues July 24, 2018)

### **SMM-CD Category**

Accessibility	Usability & Usage	Quality Management	Data Management
Discoverability	Portability	Quality Assurance & Control	Preservation
Accessibility	Documentation	Quality Assessment	Metadata
	Usage	Data Integrity	Governance

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