GSICS Data Management and Availability to Users

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Outline

- Introduction to the GSICS Data Management Working Group
  - Who We Are / What We Do
- GDWG Developments
  - Collaboration Servers; Each Partner's GSICS Data and Products Server
  - Accessing/Visualizing GSICS Products (Demo)
  - Instrument Event Logging
- Future Developments and Challenges

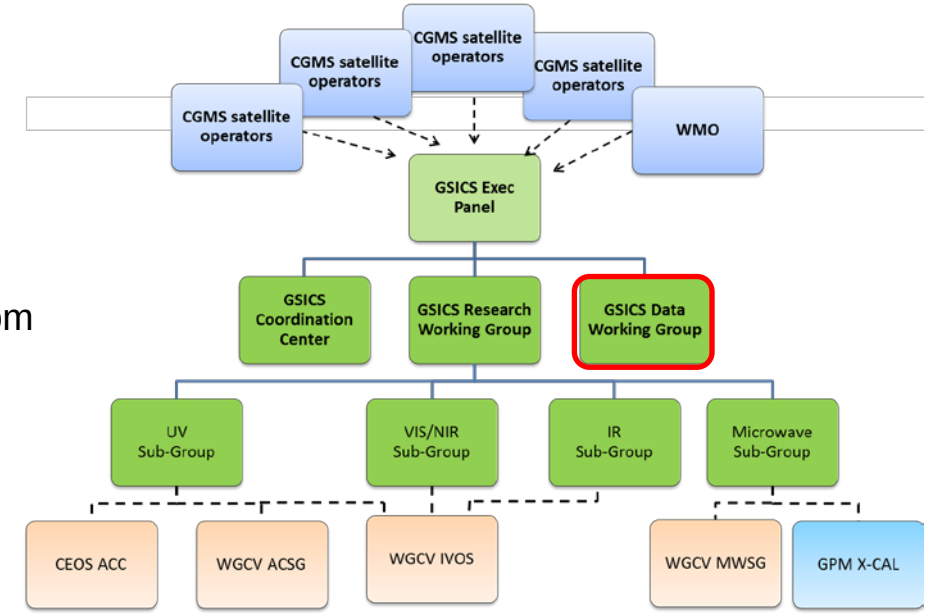
GSICS Data Management Work Group (GDWG)

GSICS Executive Panel (GEP)

- Sets strategic priorities, and monitors and evaluates GSICS evolution and operations

GDWG

- Advises GEP of the data management needs on the GSICS project as well assists in the planning/implementation of GSICS activities:
  - Developing specifications for GSICS products' format, their catalogues and data servers
  - Coordinating the development and evolution of GSICS software tools
  - Reviewing/validating the existing GSICS system from a data management point of view



Key drivers for GDWG activities: GSICS Research Working Group & **User** requirements

GDWG Members

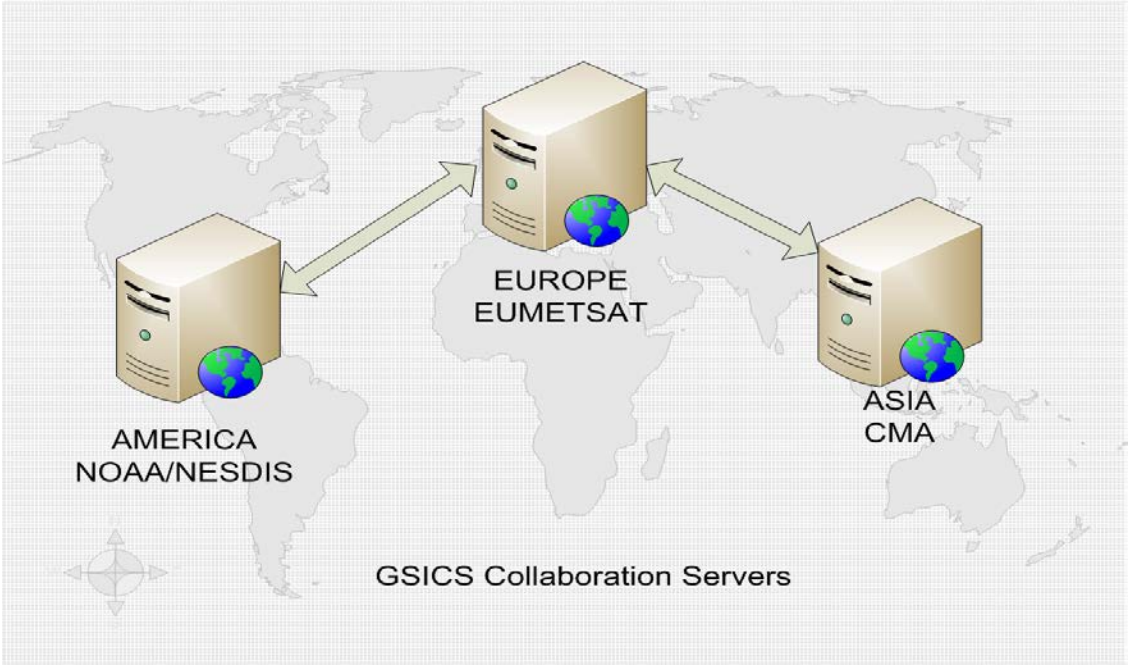
CMA	Zhe	Xu
CMA	Yuan	Li
CMA	Min	Min
CMA	Di	Xian
EUMETSAT	Peter	Miu (Co-chair)
EUMETSAT	Simon	Elliott
IMD	R.K.	Giri
JMA	Masaya	Takahashi (Co-chair)
KMA	Woo	JIN
NOAA	Manik	Bali
NOAA	Yuanzheng (Jordan)	Yao
ROSHYDROMET	Sergey	Uspensky

- Great international collaboration among the agencies
  - E.g. Maintaining the GSICS Wiki by NOAA
  - Good relationship w/ GCC (at NOAA)

GDWG Developments: Collaboration Servers

What are the GSICS Collaboration Servers?

- Individually known as Data and Products server
  - To provide a set of services for the GSICS user community to support data exchange and access to relevant inter-calibration products
- NOAA/EUMETSAT/CMA have been implementing / maintaining the servers
  - Mirroring among the servers: underway



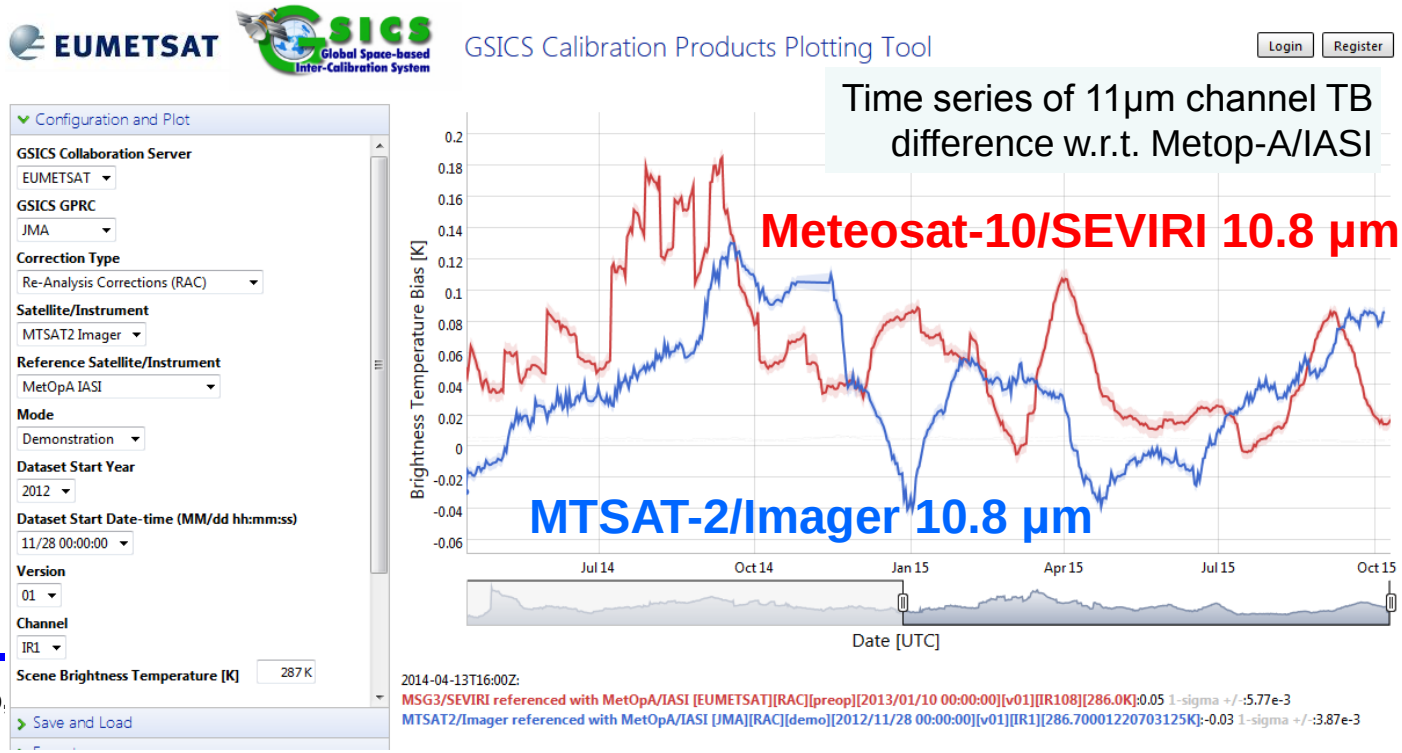
GDWG Developments: Collaboration Servers

What kinds of data are available on the Collaboration Servers?

- **Inter-calibration results (e.g. GEO-LEO-IR)**
  - NetCDF, following WMO file naming and CF conventions
  - Hyperlink to the plotting tool (next slide)
- Intermediate data
  - E.g. GEO-LEO collocation data for inter-calibration
- Source data (e.g. IASI L1C in netCDF)
  - Observation data for inter-calibration

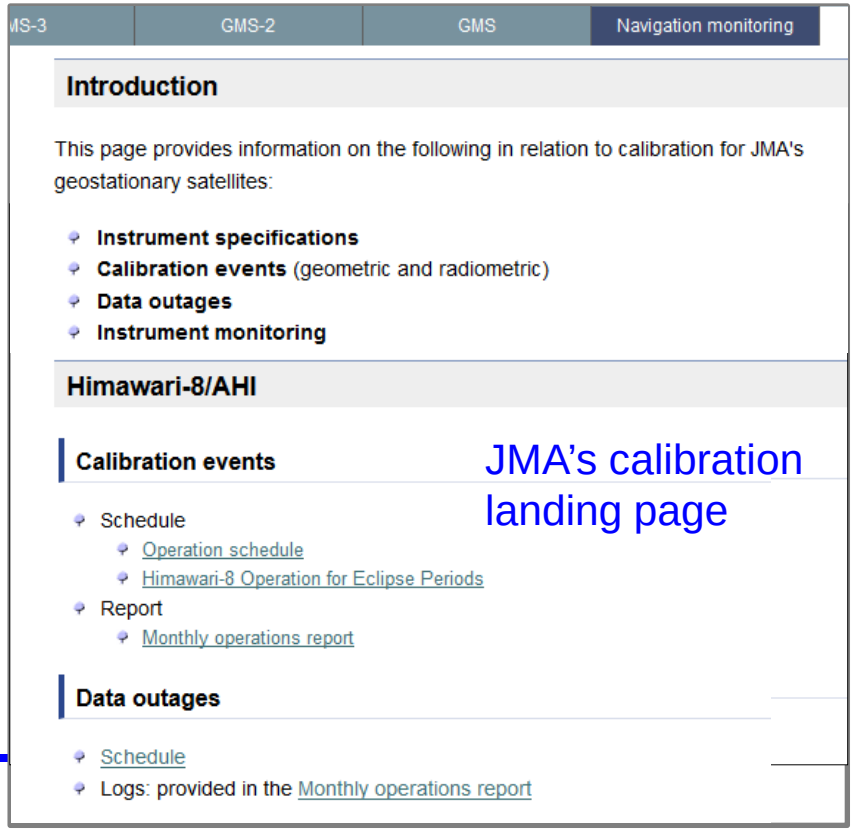
Accessing/Visualizing GSICS Products (Demo)

- Collaboration servers (linked from gsics.wmo.int)
  - http://gsics.eumetsat.int/thredds, http://gsics.nesdis.noaa.gov/thredds
- GSICS product plotting tool: http://gsics.tools.eumetsat.int/plotter/
  - Purpose: to allow product users/developers to quickly assess the GSICS products
    - ✓ Common look and feel among different sensors
    - ✓ GEO-LEO-IR is currently supported



GDWG Developments:
Instrument Event Logging

- Goal: to develop a uniform approach for presenting, logging, and monitoring calibration information across satellite operators
- First step: to create/maintain stable landing pages
  - The pages are linked from the WMO-OSCAR
  - EUMETSAT/JMA/KMA pages are available, other agencies are also in progress
- Second step: to adopt nomenclature and standards for instrument events
  - To identify a common set of parameters across space agencies



JMA's calibration landing page

Future Developments and Challenges

- Specification of GSICS Data Management Guidelines, Conventions and Standards to address the users' needs for new GSICS products
- Satellite events integration into the GSICS universe
- Automated dissemination: getting GSICS products to the users in timely fashion
- To investigate how to collaborate the development of the GSICS tools, how to coordinate efficiently join developments across different international agencies

User feedback (e.g. what products you would like to see) is very important to us, it helps with focusing on where to concentrate our resources!

Thanks for Your Attention

Questions?