

ISRO Update on GSICS Products and Plotting Tool

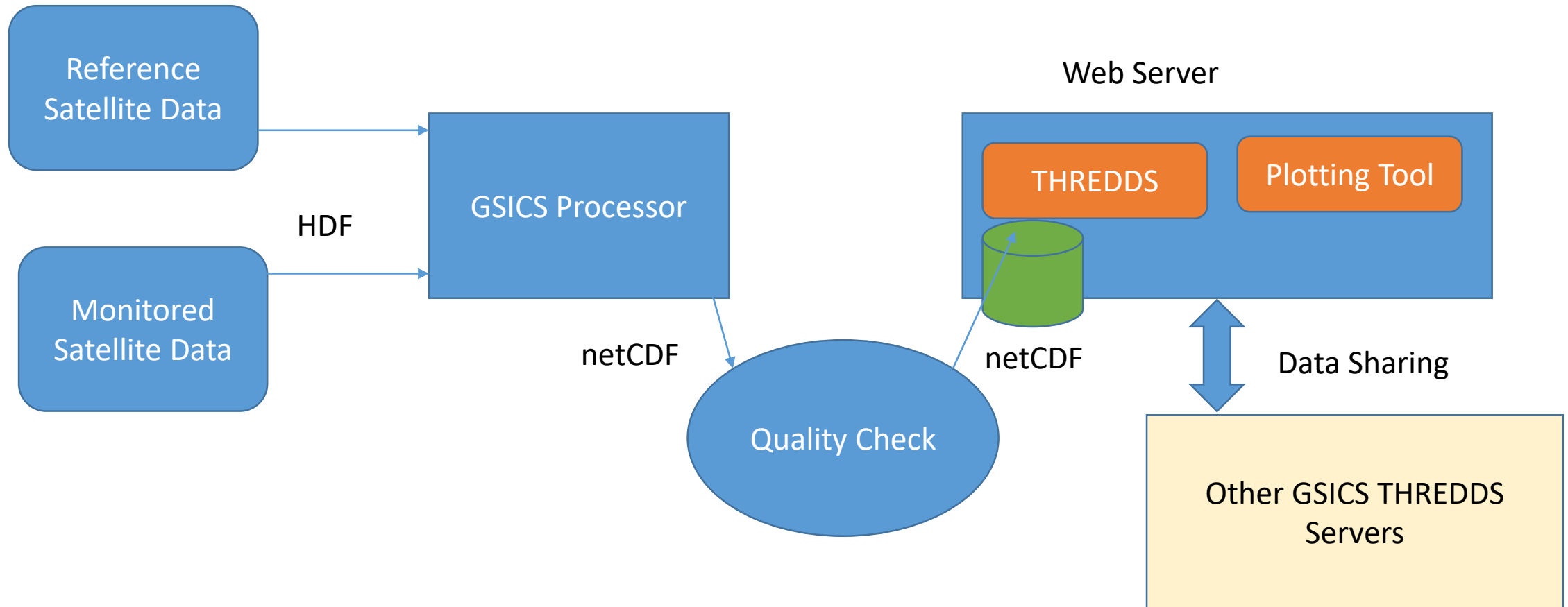
GDWG session @ GSICS Annual Meeting

Nitant Dube

Space Applications Centre (ISRO)

India

ISRO GSICS Overview



ISRO GSICS Page

- <https://mosdac.gov.in/gsics>

भारत सरकार Government of India
मॉस्टैक SAC
Meteorological & Oceanographic Satellite Data Archival Centre
Space Applications Centre, ISRO

हिन्दी English

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Home Missions Catalog Galleries Data Access Reports Atlases Tools Research Programme Sitemap Help

Home » Data Access

GSICS



- GSICS (GLOBAL SPACE-BASED INTER-CALIBRATION SYSTEM) is an international collaborative effort initiated in 2005 by World Meteorological Organization (WMO) and the Coordination Group for Meteorological Satellites (CGMS).
- The objective of GSICS is to provide calibration corrections needed for accurately integrating data from multiple observing systems and ensuring consistent observations for climate monitoring weather forecasting, and environmental applications.
- ISRO is a member organization of GSICS is carrying out the inter-calibration activity for Indian meteorological satellites in order to provide the calibration correction coefficients to the international users.

Monitored satellite/instrument	Reference satellite/instrument	Status	GSICS Product	Documentation
INSAT 3D/Imager	METOP / IASI	Demo	Near real-time correction Re-analysis correction Bias monitoring	ATBD Readme Publications
INSAT 3D/Sounder	METOP / IASI	Demo	Near real-time correction Re-analysis correction Bias monitoring	ATBD Readme Publications
INSAT 3R/Imager	METOP / IASI	Demo	Near real-time correction Re-analysis correction Bias monitoring	ATBD Readme Publication
KALPANA 1/VHRR	METOP-A / IASI	Under Development	-	-
INSAT 3A/VHRR	METOP-A / IASI	Under Development	-	-

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KALPANA 1/VHRR	METOP-A / IASI (Under Development	-	-
INSAT 3A/VHRR	METOP-A / IASI	Under Development	-	

ISRO GSICS THREDDDS Catalog

<https://mosdac.gov.in/thredds>



Catalog <http://mosdac.gov.in/thredds/catalog.html>

Dataset	Size	Last Modified
ISRO GSICS Products		--
Near Real Time Corrections (NRTC)		--
INSAT3D IMAGER PRIME CALIBRATION PRODUCT/		--
INSAT3D SOUNDER PRIME CALIBRATION PRODUCT/		--
Individual References		--
INSAT3D IMAGER calibrated against MetOpA IASI/		--
INSAT3D IMAGER calibrated against MetOpB IASI/		--
INSAT3D SOUNDER calibrated against MetOpA IASI/		--
INSAT3D SOUNDER calibrated against MetOpB IASI/		--
Re-Analysis Corrections (RAC)		--
INSAT3D IMAGER PRIME CALIBRATION PRODUCT/		--
INSAT3D SOUNDER PRIME CALIBRATION PRODUCT/		--
Individual References		--
INSAT3D IMAGER calibrated against MetOpA IASI/		--
INSAT3D IMAGER calibrated against MetOpB IASI/		--
INSAT3D SOUNDER calibrated against MetOpA IASI/		--
INSAT3D SOUNDER calibrated against MetOpB IASI/		--
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gsics_agg_isro_nrtc_insats3d_imager_metopb_demo.nc		--
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gsics_agg_isro_nrtc_insats3d_sounder_metopb_demo.nc		--
agg_isro_nrtc_insats3r_sounder_metopa_demo.nc		--

ISRO GSICS Plotting Tools (INSAT-3D Imager)

https://mosdac.gov.in/gsics_calval/



Demonstration

Monitored Parameter

BT Bias



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Monitored Sensor

INSAT-3D IMAGER

Product Type

Near Real Time Correc...

Reference Sensor

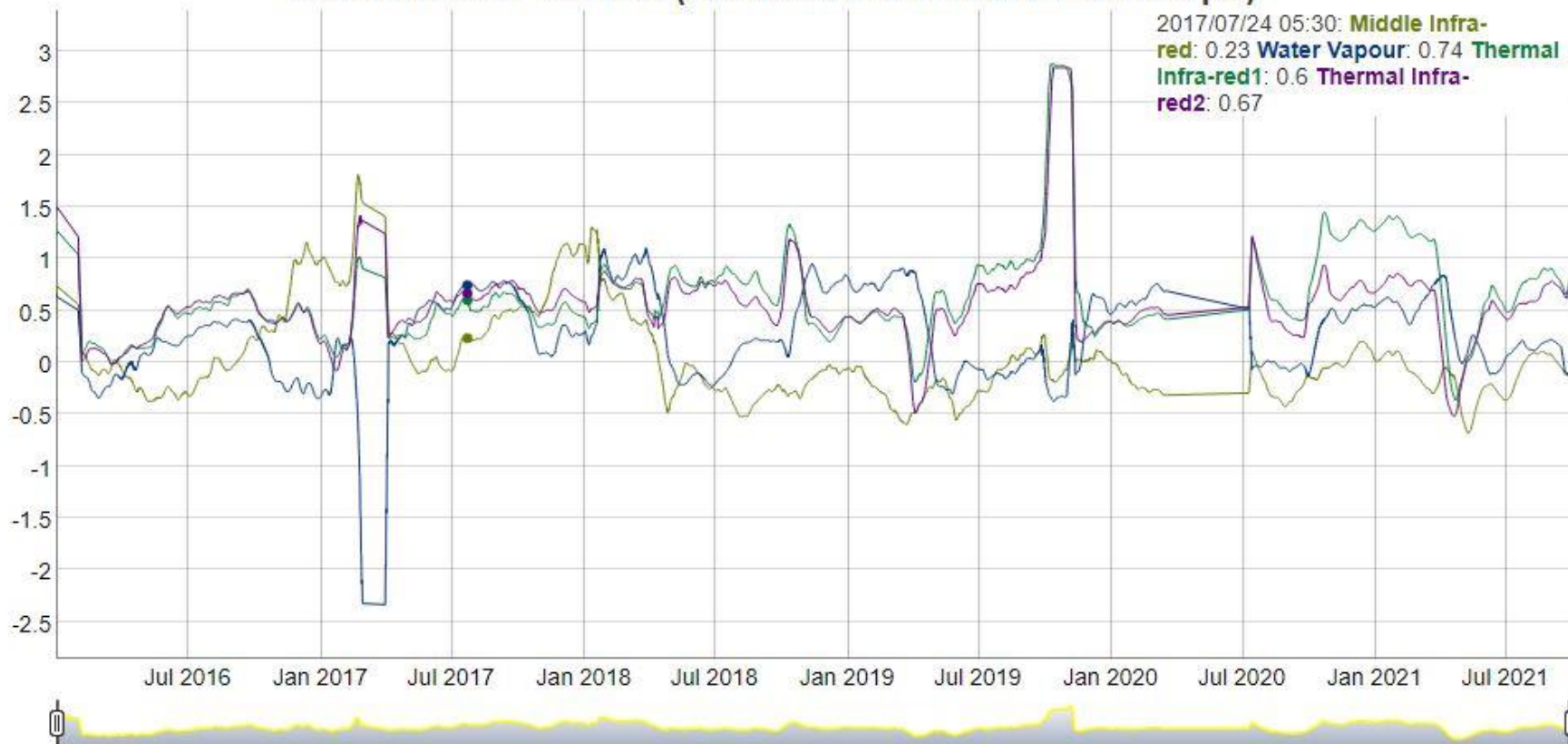
IASI/MetOpA

Band

All

RELOAD

TIMESERIES OF BT Bias (INSAT-3D IMAGER/AII/ IASI/MetOpA)



ISRO GSICS Plotting Tools (INSAT-3R Imager)

https://mosdac.gov.in/gsics_calval/



Demonstration

Monitored Parameter **BT Bias**



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Monitored Sensor

INSAT-3R IMAGER

Product Type

Near Real Time Corre...

Reference Sensor

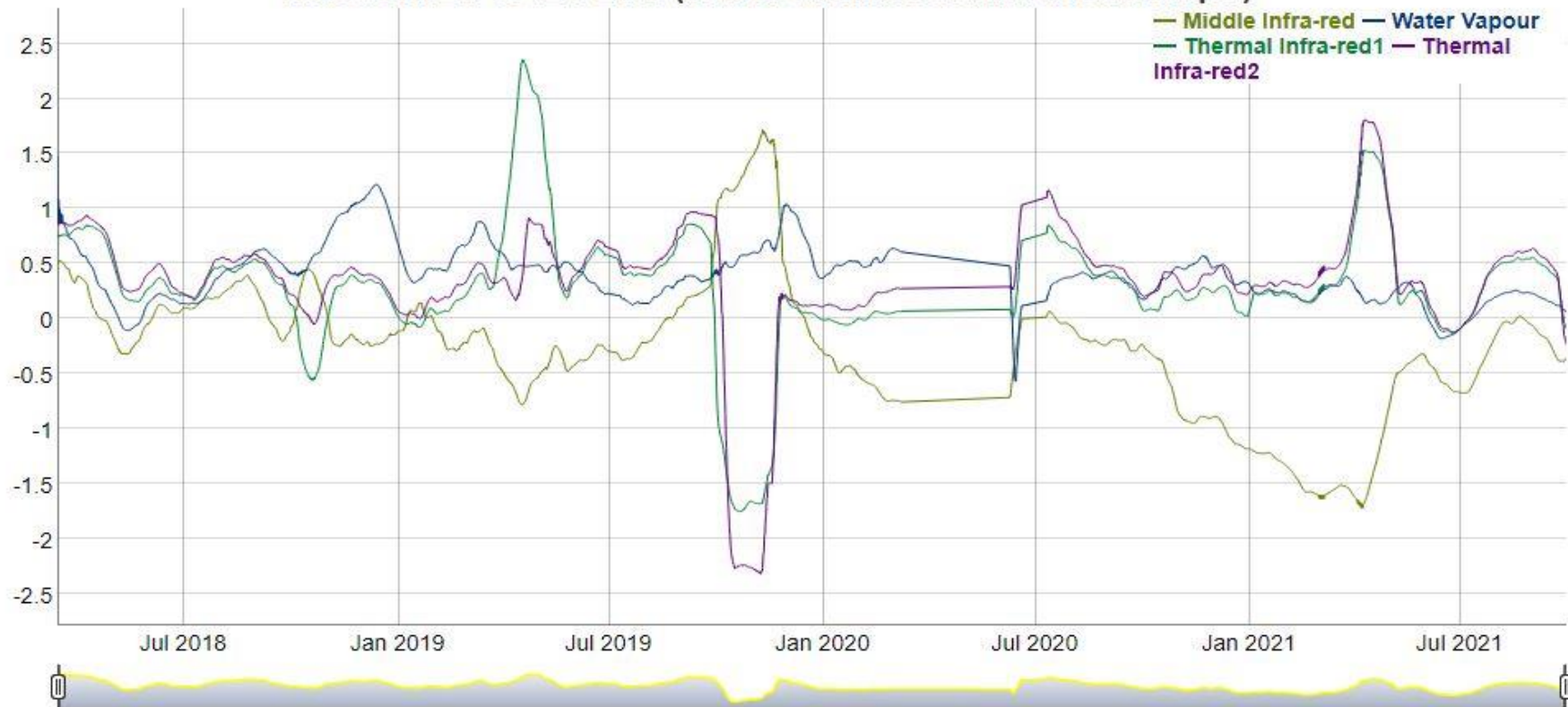
IASI/MetOpA

Band

All

RELOAD

TIMESERIES OF BT Bias (INSAT-3R IMAGER/All/ IASI/MetOpA)



Thanks
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