GRWG Web Meeting

Nov. 25, 2008

Postponed to Dec. 16, 2008

Agenda

- Tips and questions of Web Meeting (Uz)
  – Highlights instead of demonstration or training
- Update on Hierarchical ATBD (Hewison)
- Action from EP-5 (Lafeuille)
- Recent Research Activities (15 min each)
  – CMA
  – EUMETSAT
  – JMA
  – KMA
  – NOAA
    - Wang: Achievements.
    - Wu: Plan for the next two months
- Preparation for GRWG-4 (Wu)

Hierarchical ATBD for GSICS

- Thank Tim for this systematic and comprehensive approach
- Status
  - Minor modifications are expected
  - Basic structure seems sound and mature?
- Recommendation: ???

Preparation for GRWG-IV

- GRWG-IV: options and effectiveness of communication
  - Face-to-face meeting
    - Annually or semi-annually
    - Avoid summer
  - Tele-conference
    - By-monthly, or more or less frequently
  - Mail group
    - Eliminate the "representative" group
  - E-mail
- CLARREO
  - Inter-calibration is assumed
  - Get more involved, help to optimize it and ready to use
- Other issues:

GSICS EP-5

- CNES informs that SADE will be partially available through "order and supply"
- CNES is open to suggestions of new site (outside of Northern Africa)
- Input from GRWG
  - Suggestions to me by when

| Task Name	Lead	Description	Deliverable	Q1	Q2	Q3	Q4
Project meeting milestones		**Governance**					
Executive Panel Meeting	EP	Provide the GSICS program guidelines	Meeting report		Δ		Δ
GRWG/GDWG Joint Meeting	GDWG/GRWG	Resolving related data and science issues	Meeting report	Δ			
GRWG Web Meeting	GRWG	Support GSICS by resolving related scientific issues	Meeting report	Δ	Δ	Δ	Δ
GDWG Web Meeting	GDWG	Support GSICS by resolving related data management issues	Meeting report		Δ		Δ
Outreach and user interaction		**Inform GSICS community & beyond and seek feedback**					
Quarterly Newsletter	GCC	Inform members and stake-holders	Newsletter delivered electronically	Δ	Δ	Δ	Δ
Quarterly Anomaly Reports	All GPRCs	Reports of satellite instrument anomalies	Quarterly Report	Δ	Δ	Δ	Δ
GSICS Information, Services, and Products Roster (GISPR)	EP, GCC	1. Submit to NWP and climate user groups 2. Review the feedback received	Submit to GCOS, RSSC-CM, CEOS WGCV, NWP workshop	Δ			Δ
End-to-end demonstration		establish an end-to-end demonstration toward an operational GSICS by including beta-users in the GSICS process					Δ
GSICS Users' Workshop	GDWG	Support GSICS by interacting and getting input from User community	Meeting report			Δ	
Report to GCOS/AOPC	EP	Inform GCOS/AOPC and coordinate with their activities	Briefing and debriefing		Δ		
Report to CEOS Cal/Val	EP	Inform CalVal and coordinate with their acticvities	Briefing and debriefing			Δ	
Report to CEOS plenary	WMO	Inform CEOS and coordinate (as part of WMO report)	Briefing and debriefing				Δ
Report to CGMS	WMO, EP	Inform CGMS and coordinate with their activities	Briefing and debriefing				Δ
Conferences/workshops/panels (GRC, SPIE, WCRP SSC, GCOS SC, BIPM)		Raise awareness and get feedback					
BAMS article on GSICS	EP	Inform satellite and user community about GSICS	Draft paper			Δ	
WIGOS Pilot Project	GCC, WMO	To develop WIGOS Pilot Project proposal based on GSICS activities (CGMS 36 Action…)					

| Data Management and other cross-cutting tasks		Specify, organize, archive and disseminate GSICS data and information					
GSICS Web Sites	GCC, All GPRCs	Provide information, reports, results and links to Members	GSICS web site	Δ	Δ	Δ	Δ
File and Parameter Naming Conventions	GDWG	Adopt and ammend an established file and parameter naming conventions appropriate for GSICS data sets.	GSICS File and Parameter Naming Systems	Δ			
GSICS Collaborative Server	EUMETSAT, NOAA	Collaborative Servers up and running with THREDDS/OPeNDAP software and common directory structure	On-line functional collaborative data servers		Δ		
GEO-LEO IR imager channel updates to collaborative server and web	All GPRCs	Post GEO-LEO IR imager channel updates to collaborative server and web	Available data sets, plots, and tables of results	Δ	Δ	Δ	Δ
GSICS Twiki	All	Begin to create collaborative GSICS documentation using TWiki software running on NOAA server	LEO-LEO and GEO-LEO documentation 80 % complete	Δ	Δ	Δ	Δ
Documentation	GDWG	Initial archiving of documenttaion and codes	Description and initial archiving			Δ	
Result template	GRWG-GDWG	Improve and harmonize presentation of results in graphs and tables	Templates		Δ		
Service Specification	GCC + GPRCs	Detail the specification of products and make it available through a portal	Detailed product descriptions				Δ
Product Acceptance Procedure implementation	GCC+ GRWG +GDWG	Establish scientific and data management criteria to be met by GSICS products	Criteria				Δ
SADE data request mechanism	GRWG-GDRG-CNES	Adopt a mechanism for SADE data requests from GSICS partners, implement by CNES	Interface implemented	Δ			
Additions to SADE targets	GRWG-CNES	Propose / evaluate new targets sites for inclusion into SADE, to be discussed at CNES at joint GRWG-GDWG+C24	Selected targets	Δ			
Instrument monitoring website		Recommendations for instrument performance monitoring website (CGMS 36 Act…WGII)					
Instrument characteristics repository	GCC + GPRCs	To make available the instrument characterization of their imaging and sounding instruments in polar and geostationary orbit, in particular the spectral response functions, through a link from the GCC website (CGMS 36 Act…WGII)	Links to detailed characteristics				Δ
Pre-launch actions		Pre-launch instrument characterization guidelines	Guidelines				

LEO-LEO UV, Visible, IR and MW Intercompariso+A44n		Evaluate LEO Satellite Instrument Calibration					
LEO-LEO operational updates	NOAA/CMA	Add new LEO satellite instruments (NOAA-N', FY-3), create and implement NetCDF output modules, and expand documentation	New data for evaluation, output and filename structures align with GSICS standards, completed documentation				Δ
LEO-LEO microwave imager inter-comparison	NOAA	Perform baseline inter-sensor calibration for microwave imagers (SSM/I, SSM/IS, TMI, WindSat, AMSR-E, etc.)	Evaluation report			Δ	
LEO-LEO GOME-2 and OMI data inter-comparison	NOAA	Establish and implement software for LEO-LEO GOME2 and OMI data inter-comparison	Evaluation report			Δ	
LEO-LEO Analysis	NOAA	Routinely evaluate measurement comparability (AMSU, SSM/I, HIRS, AVHRR, MODIS, AIRS)	Evaluation report	Δ	Δ	Δ	Δ
Regular AIRS-IASI comparison	CNES / NOAA	Routinely evaluate measurement comparability (IASI, AIRS) through several methods	Report	Δ		Δ	
LEO-LEO historical analysis	NOAA	Perform SNO analysis for historical operational AVHRR, AMSU-A, MSU, HIRS, etc.	Pending External Funding	Δ	Δ	Δ	Δ
LEO-LEO product acceptance within GSICS	GCC, GRWG, GDWG, EP	Put LEO-LEO product through GSICS Procedure for Product Acceptance	GSICS EP Approval of LEO-LEO Product				Δ
Further developments (LEO-LEO)							
LEO-LEO Visible channel calibration on special targets	CNES	Using SADE database, intercalibration of MODIS, MERIS, SPOT/VGT, Parasol, plus extension to AVHRR data from the long term data range processing	Results				

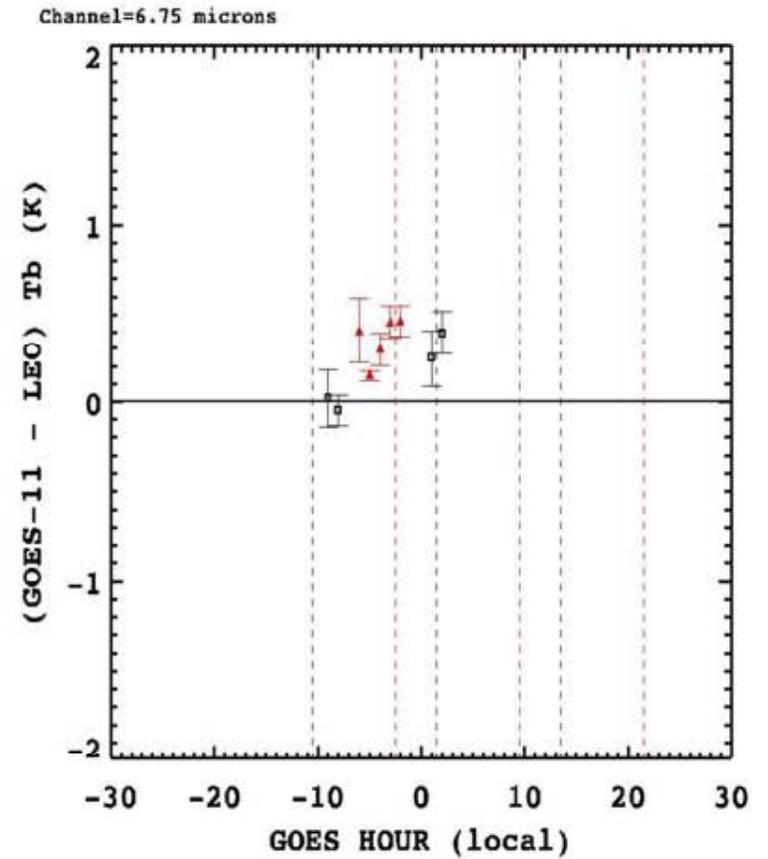| GEO-LEO Algorithm development/ Implementation		Evaluate GEO and LEO Satellite Instrument Calibration					
GEO-LEO Inter-Calibration for IR channels	All geo-GPRCs	Routine inter-calibration of respective GEO with AIRS and IASI	Periodic delivery of results to GCC			Δ	
GEO-LEO Inter-Calibration for IR channels	GCC	Establish baseline inter-calibration of all GEOs with AIRS and IASI	Baseline comparison as needed			Δ	
Algorithm Comparison	GCC	Compare algorithms and their results at GPRCs, focusing on IR for 2009	Report of differences and suggestions of improvements				Δ
Further developments							
AIRS/IASI Inter-Calibration using geostationaries as Transfer Radiometer	NOAA, EUMETSAT, KMA, JMA	Evaluate the AIRS/IASI difference with "double differencing" of (GOES-AIRS) - (GOES-IASI)	Evaluation report		Δ		
GEO Midnight Calibration Anomaly	JMA/NOAA	Use GSICS LEO-GEO inter-calibration to assess the status (MTSAT) and correction (GOES) of the midnight calibration anomaly	Evaluation report			Δ	
GOES-13 Imager 13.3 um Channel SRF correction	NOAA	Use GSICS LEO-GEO inter-calibration to quantify and correct errors in GOES-13 Imager 13.3 um channel SRF	Implementation to NOAA Satellite operation	Δ			
RTM Bias Characterization	NOAA	RTM bias characterization for select GEO and LEO IR and microwave instrument window channels, and possibly IR water vapor channels for selected clear atmospheric conditions	Evaluation results			Δ	
GEO and LEO Solar Channel Inter-Calibration	All geo-GPRCs	Demonstrate a baseline algorithm	Initial results and evaluation				Δ

NOAA Near Term Plan

- Explore the capability of using GEO to complement AIRS-IASI inter-comparison

- Document Version 2

- Expand inter-calibration to other satellites

- Investigate the midnight calibration anomaly (in collaboration with JMA)
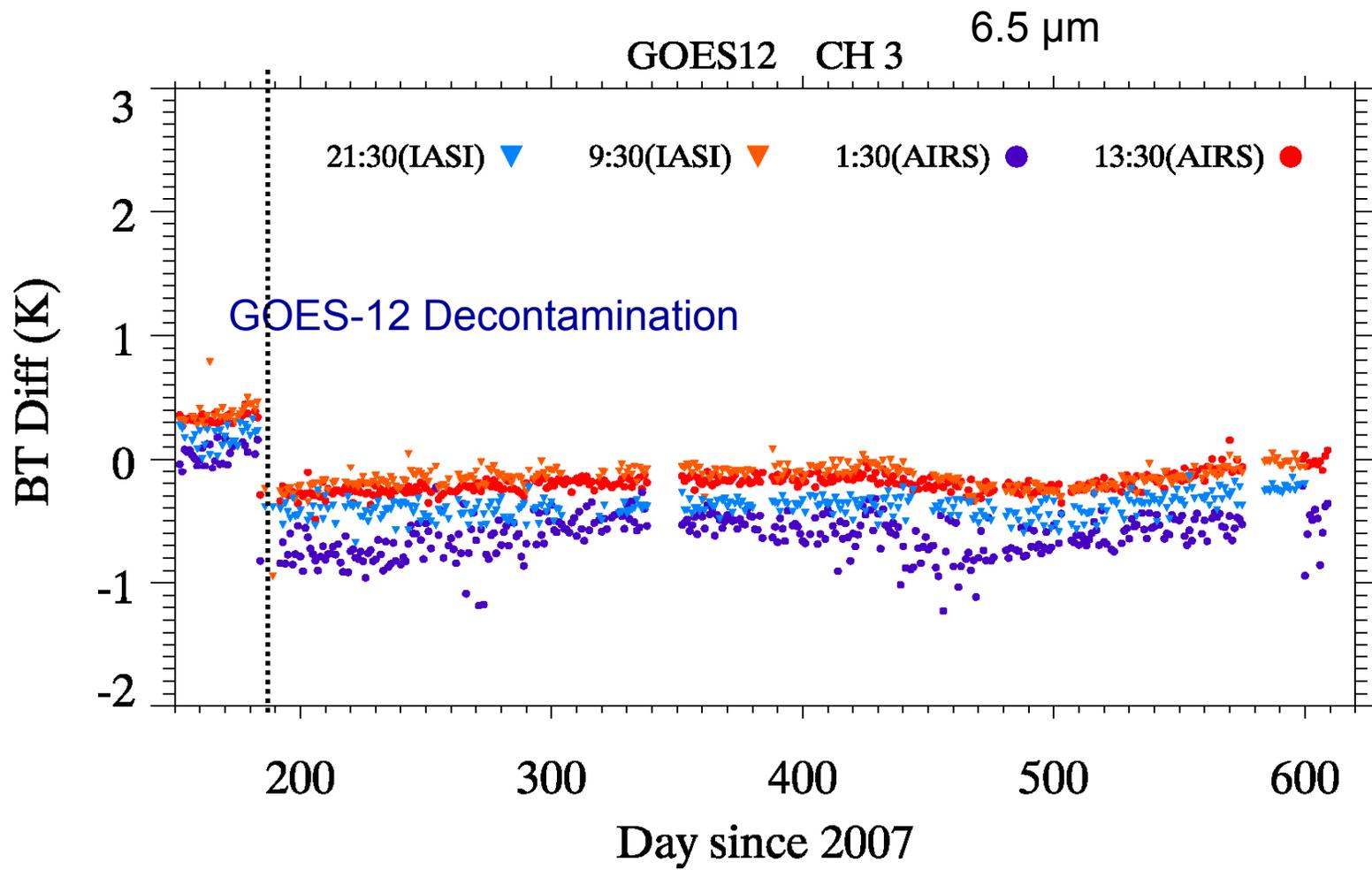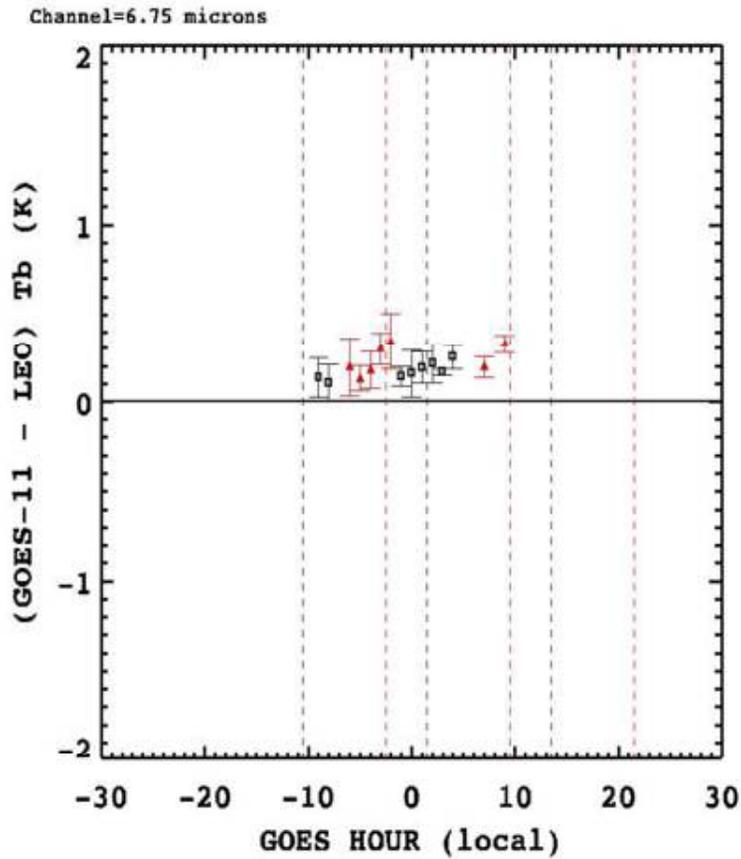
February 20-29, 2008. With MBCC   April 04-06, 2008. Without MBCC

GOES-11 - LEO

IASI
AIRS