

GSICS OPERATIONS PLAN 2009

FIRST (CHAIR/REP) LEAD - DELEGATE OR DIY

Task Name	Lead	Description	Deliverable	Q 1	Q 2	Q 3	Q 4
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			
GSICS Users' Workshop	GDWG-GRWG	Support GSICS by interacting and getting input from User community	Meeting report			Δ	
End-to-end demonstration	EXP, GCC, GDWG, GRWG	establish an end-to-end demonstration toward an operational GSICS by including beta-users in the GSICS process	Report from the beta users				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 activities	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
Participate in Conferences/workshops/panels		Participate in GRC, SPIE, WCRP/SSC, GCOS/SC, BIPM to raise awareness and get feedback					
BAMS article on GSICS	EP	Inform satellite and user community about GSICS	Draft paper			Δ	
WIGOS Pilot Project	WMO, GCC	To develop WIGOS Pilot Project proposal based on GSICS activities (CGMS 36 Action...)		Δ			
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 amend 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		

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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	NOAA, 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 documentation 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 identified	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	GCC+ GDWG	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	NIST + GCC, ExP	Pre-launch instrument characterization guidelines(See action 5.3) Action to be conducted in cooperation with CEOS WGCV	Guidelines				
Instrument calibration	GRWG	Develop a procedure to calculate the best estimate of a calibration of a particular instrument channel at a given point in time	Procedure				
LEO-LEO UV, Visible, IR and MW Intercomparison		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 aligned 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	

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LEO-LEO GOME-2 and OMI data inter-comparison	NOAA and CMA	Establish and implement software for LEO-LEO GOME2, OMI, and TOU data inter-comparison	Evaluation report			Δ	
LEO-LEO Analysis	NOAA and NASA	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	Evaluation report	Δ		Δ	
LEO-LEO historical analysis	NOAA, NASA	Perform SNO and DCC 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	NOAA	Establish baseline inter-calibration of all GEOs with AIRS and IASI	Baseline comparison as needed			Δ	
Algorithm Comparison	NOAA	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 and other GPRCs	Evaluate the AIRS/IASI difference with "double differencing" of (GEO- IASI) - (GEO-AIRS)	Evaluation report		Δ		
GEO Midnight Calibration Anomaly	JMA/NOAA/NASA	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	NASA and GPRCs	Demonstrate a baseline algorithm	Initial results and evaluation				Δ