

Specific CEOS Category 1 and 2 Actions/Agency Commitments in Support of GEO Work Plan Tasks/Sub-Tasks

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SIT Agency Principals

Working Group Chairs

Virtual Constellation Co-Leads

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Architecture

GEOSS Common Infrastructure (GCI)

GEO Task AR-09-01

- ***Enabling Employment of a GEOSS Architecture***

GEO Sub-Task AR-09-01a

NEW

LSI Portal

Complete Version 1 of the LSI Constellation Portal for Mid-Resolution Optical LSI Satellite System Information and Enhanced Data Access

CEOS Action: AR-09-01a _2

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: USGS

Participating Agencies: CEOS Agencies that operate mid-resolution, optical LSI satellite systems.

Constellation: LSI

Working Group: WGISS, WGCV

Connecting Observation Systems for GEOSS

GEO Task AR-09-02

- ***Virtual Constellations****
GEO Sub-Task AR-09-02a
- ***WIS***
GEO Sub-Task AR-09-02b

Moving GPM from Formulation to Implementation

Continued progress on moving GPM from formulation to implementation phase at NASA and JAXA. Action is necessary to realize GPM phase of PC

CEOS Action: AR-09-02a_10

CEOS Action Category: 2

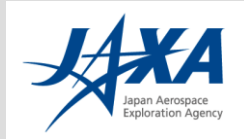
CEOS SBA Allocation: Transverse

Lead Agency: NASA and JAXA

Proposed Participating Agencies: NOAA, EUMETSAT, INPE/AEB, CNES, ISRO

Constellation: Precipitation

Working Group: N/A



Jason Altimetry Time Series

Maintain continuity of high-accuracy Jason altimetry time series

CEOS Action: AR-09-02a_15

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: EUMETSAT and NOAA

Proposed Participating Agencies: CNES, EC, ESA, EUMETSAT

Constellation: OST

Working Group: N/A

Mission Requirements Document for OST Constellation

Develop Mission Requirements Document (MRD) for the OST Constellation

CEOS Action: AR-09-02a_16

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: EUMETSAT

Proposed Participating Agencies: CNES, EC, ESA, EUMETSAT

Constellation: OST

Working Group: N/A

Altimeter Continuity

Maintain continuity with altimeters on at least two complementary, high-inclination satellites. Engage key officials of the Chinese State Oceanic Administration to collaborate in altimetry – to extend data availability beyond that available from existing Constellation

CEOS Action: AR-09-02a_17

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NOAA

Proposed Participating Agencies: CNES, ESA, EUMETSAT, ISRO, SOA, U.S. Navy

Constellation: OST

Working Group: N/A

Development of Swath Altimetry

Extend the capability of altimetry to denser observational coverage through the development of swath altimetry

CEOS Action: AR-09-02a_19

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NASA and CNES

Proposed Participating Agencies: N/A

Agencies:

Constellation: OST

Working Group: N/A



Improve PC Radiometer Intercalibration

Improve PC radiometer intercalibration through new methodologies developed by the Precipitation Measurement Missions (PMM) Science Team intercalibration working group in coordination with the CGMS/GSICS

CEOS Action: AR-09-02a_20

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NASA

Proposed Participating Agencies: N/A

Agencies:

Constellation: Precipitation

Working Group: N/A



Maintain Continuity with Two Complementary Scatterometers

Maintain continuity with two complementary scatterometers. Engage key officials of the Chinese State Oceanic Administration to collaborate in scatterometry – to extend data availability beyond that from existing Constellation

CEOS Action: AR-09-02a_21

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: NOAA

Proposed Participating Agencies: CNES, EUMETSAT, ISRO, SOA

Constellation: OSVW

Working Group: N/A

Improve High Seas Operational Marine Forecasting

Improved operational marine forecasting for the high seas using near-real-time winds from the OSVW and significant wave heights from the OST Constellations

CEOS Action: AR-09-02a_24

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: EUMETSAT and NOAA

Proposed Participating Agencies: CNES, ESA, ISRO, NASA, SOA + GMDSS Operational Marine Forecast Centers (MFCs)

Constellation: OSVW

Working Group: N/A

TRMM Operations 2009

Continue TRMM operations through 2009. Action is necessary to support GPM Preparatory Phase of PC

CEOS Action: AR-09-02a_25

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: NASA and JAXA

Proposed Participating Agencies: CNES, CSA, DLR, ESA, EUMETSAT, INPE, ISRO, NOAA, CAST/NRSCC, NRL

Constellation: Precipitation

Working Group: N/A



Future Mid-Resolution Definition of Standards

Complete the definition of standards (guidelines) for future mid resolution LSI satellite systems to produce information products that benefit several SBA areas

CEOS Action: AR-09-02a_26

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: USGS

Proposed Participating Agencies: NASA and JAXA

Constellation: LSI

Working Group: N/A

Timely Acquisition of Global Datasets

Enhance timely acquisition of global datasets, including routine acquisition over defined calibration, environmentally sensitive, and other agreed upon sites

CEOS Action: AR-09-02a_28

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: USGS

Proposed Participating Agencies: N/A

Agencies:

Constellation: LSI

Working Group: N/A

Common Data Processing Parameters

Implement common data processing parameters, data formats, and map projections

CEOS Action: AR-09-02a_29

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: USGS

Proposed Participating Agencies:
INPE

Constellation: LSI

Working Group: N/A

ACC Portal

Identify requirements and implement a prototype ACC portal for evaluation and eventual use by the ACC, GEOSS and other AC user communities

CEOS Action: AR-09-02b_2

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: ACC

Working Group: WGISS



Advocating for Sustained Observing Systems

GEO Task AR-09-03

- ***Global Observing System (GOS)***

GEO Sub-Task AR-09-03d

Observing System Simulation Experiment (OSSE)

Observing System Simulation Experiment (OSSE) to compare operational benefits of the various ROS constellation options identified in June 2007 at the WMO Workshop on the Re-design and Optimization of the Space-based GOS (OPT-2)

CEOS Action: AR-09-03d_3

CEOS Action Category: 2

CEOS SBA Allocation: Weather

Lead Agency: NOAA

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

TRMM Flood Monitoring and Landslide Warning

Availability of operational prototype for flood monitoring and landslide warning using TRMM data

CEOS Action: AR-09-03d_8

CEOS Action Category: 2

CEOS SBA Allocation: Weather

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A



Merged TRMM Products

Production of Merged TRMM Multi-satellite Precipitation Products

CEOS Action: AR-09-03d_9

CEOS Action Category: 1

CEOS SBA Allocation: Weather

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A



Data Management

Data Management

GEO Task DA-09-01

- ***GEOSS Quality Assurance Strategy****
GEO Sub-Task DA-09-01a
- ***Data, Metadata and Products Harmonisation****
GEO Sub-Task DA-09-01b

TRUTHS and CLARREO Mission Coordination

Benchmark mission coordination between TRUTHS and CLARREO missions

CEOS Action: DA-09-01a_5

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: BNSC/NPL

Proposed Participating Agencies: ESA and NASA

Constellation: N/A

Working Group: WGCV

International Cross-comparison of Ground-based Cal/Val Support Techniques

Obtain support and resources to complement those of ESA to initiate and plan an international cross-comparison of ground-based Cal-Val support techniques and instrumentation for both IR emitted radiance (SST) and VIS/SWIR reflected radiance (Land)

CEOS Action: DA-09-01a_6

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: BNSC/NPL

Proposed Participating Agencies: USGS, NOAA, ESA, NASA

Constellation: N/A

Working Group: WGCV

Complete DOME-C Multi-Sensor Experiment

CEOS Action: DA-09-01a_7

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NOAA

Proposed Participating CEOS Agencies
Agencies:

Constellation: LSI

Working Group: WGCV

Develop Cal/Val Portal and post-launch Test Sites

CEOS Action: DA-09-01a_8

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: USGS and ESA

Proposed Participating CEOS Agencies
Agencies:

Constellation: N/A

Working Group: WGCV

Radiometric Standards

Develop radiometric standards for use in Earth Observation and develop a handbook

CEOS Action: DA-09-01a_9

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: BNSC/NPL

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

Quality Assurance Framework for Earth Observation (QA4EO) Implementation

CEOS Action: DA-09-01a_10

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: ESA and USGS

Proposed Participating CEOS Agencies
Agencies:

Constellation: ACC, LSI, OCR, OST, OSVW, PC

Working Group: WGCV, WGISS, WGEdu

CEOS Reference Test Site Data Collaboration and Comparison

CEOS Action: DA-09-01a_11

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: BNSC/NPL, USGS, ESA, NOAA

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

Land Product Harmonization

1) Continue developing the strategy for generating consistent biophysical products from medium resolution sensors. 2) Evaluate global landcover classification at regional scale. 3) Update the BELMANIP, and intercompare the fAPAR products. 4) Publish the results

CEOS Action: DA-09-01b_1

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: CNES/INRA

Proposed Participating Agencies:
NASA

Constellation: N/A

Working Group: WGCV

Data, Metadata, and Products Harmonization

Establish a WGISS project to focus its contributions to the subject task and to generate those contributions. The first deliverable of the GEO task is an Assessment of Current Capabilities

CEOS Action: DA-09-01b_2

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NOAA

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: WGISS, WGCV

Global Data Sets

GEO Task DA-09-03

- ***Global Land Cover****
GEO Sub-Task DA-09-03a
(No CEOS actions yet identified)
- ***Global DEM****
GEO Sub-Task DA-09-03d

OGC-Compliant Access to ASTER 30m DEM Data

Update ICEDS information server to provide OGC-compliant access to ASTER 30m DEM data (when it becomes available), together with localized validation DEM data and associated quality information (e.g. gap locations; number of ASTER observations per pixel, etc.)

CEOS Action: DA-09-03d_3

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: BNSC/UPL

Proposed Participating Agencies: NASA and METI

Constellation: N/A

Working Group: WGISS, WGCV

ALOS PALSAR and PRISM DEM Datasets

Develop the sample DEM datasets derived from ALOS PALSAR and PRISM

CEOS Action: DA-09-03d_4

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: JAXA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: WGCV

Capacity Building

Building Individual Capacity in Earth Observation

GEO Task CB-09-02

- ***GEONETCast Training***
GEO Sub-Task CB-09-02g

Develop GEONETCast Training Channel

Develop the GEONETCast Training Channel that will focus on (i) training end-users to use products for specific purposes and to disseminate data via GEONETCast; (ii) linking GEONETCast products and product navigator (inside portal) with specific training material; (iii) transmitting training materials via GEONETCast to local trainers; and (iv) disseminating training materials on GEOSS-related environmental data

CEOS Action: CB-09-02g_1

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: NOAA and EUMETSAT

Proposed Participating Agencies:
WMO, CMA

Constellation: N/A

Working Group: WGEdu

Building Institutional Capacity to Use Earth Observation

GEO Task CB-09-03

- ***Establishing Regional Capacity Building Networks***

GEO Sub-Task CB-09-03b

Ocean Color Training Course

Provide 2-weeks training course 'Methods and Application of Ocean Color Remote Sensing in African Coastal and regional Seas'

CEOS Action: CB-09-03b_1

CEOS Action Category: 1

CEOS SBA Allocation: Transverse

Lead Agency: IOCCG

Proposed Participating Agencies: EC-JRC, ESA, NASA

Constellation: OCR

Working Group: N/A

Infrastructure Development and Technology Transfer for Information Access

GEO Task CB-09-05

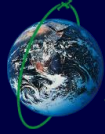
- ***CBERS****

GEO Sub-Task CB-09-05b

(No CEOS actions yet identified)

Science and Technology

Category 3 Action only identified



User Engagement

Cross-Cutting Products and Services

GEO Task US-09-03

- ***Forest Mapping and Change Monitoring***

GEO Sub-Task US-09-03b

Mid-Resolution LSI Data Sets

Compile mid-resolution LSI data sets over Southern South America, Southeast Asia, and part of Africa

CEOS Action: US-09-03b_4

CEOS Action Category: 2

CEOS SBA Allocation: Transverse

Lead Agency: USGS and NASA

Proposed Participating Agencies: CONAE, INPE, CNES, JAXA, NASA, GISTDA, ISRO(?)

Constellation: LSI

Working Group: N/A

Disasters

Use of Satellites for Risk Management*

GEO Task DI-06-09

International Charter Metadata Catalog

Development and operation of International Charter metadata catalog using GEO interoperability standards to contribute to GEO Portal

CEOS Action: DI-06-09_5

CEOS Action Category: 2

CEOS SBA Allocation: Disasters

Lead Agency: CNES

Proposed Participating Agencies: CONAE, CSA, ESA, GISTDA, ISRO, JAXA, NOAA, USGS, DMC, CNSA

Constellation: N/A

Working Group: N/A

International Charter Agreement

Implementation of GEO-Charter Agreement for broadening access to Charter data

CEOS Action: DI-06-09_6

CEOS Action Category: 2

CEOS SBA Allocation: Disasters

Lead Agency: ESA

Proposed Participating Agencies: CSA and other International Charter Members

Constellation: N/A

Working Group: N/A

Integration of Existing Technologies for Disaster Response

Analyze WGISS members response to supply near real-time data of the 2007 Wenchuan Earthquake to Chinese response agency. Develop a working process model to integrate existing technologies within WGISS/CEOS, i.e. web service, grid, and clearing house for disaster response. Implement a prototype to demonstrate use of these integrated technologies for the process model for the earthquake scenario

CEOS Action: DI-06-09_7

CEOS Action Category: 2

CEOS SBA Allocation: Disasters

Lead Agency: GISTDA and UNOOSA

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: WGISS





Use of Satellites for Risk Management

Development of system architecture for risk management, including validation with users. Based on user requirements developed under DI-06-09_1, the action will document existing and planned systems that meet requirements, determine gaps and propose satellite architectures that address the priority needs. The action will include an assessment of the status of the Use of Satellite data for each type of disaster as well as a road map showing links between various initiatives.

CEOS Action: DI-06-09_8

CEOS Action Category: 2

CEOS SBA Allocation: Disasters

Lead Agency: CSA

Participating Agencies: NASA, NOAA, ESA, CNES, ASI, DLR, CONAE, GISTDA, USGS, JAXA

Constellation: All Constellations

Working Group: N/A



Multi-Risk Management and Regional Applications

GEO Task DI-09-02

- ***Implementation of a Multi-Risk Management Approach***
GEO Sub-Task DI-09-02a
- ***Regional End-to-End Disaster Management Application****
GEO Sub-Task DI-09-02b

Operational Volcanic Ash Alert System

Demonstrate a global operational volcanic ash alert system for aviation hazard avoidance. Improved algorithms, improved data latency, and the addition of EUMETSAT/SEVIRI data is planned

CEOS Action: DI-09-02a_2

CEOS Action Category: 1

CEOS SBA Allocation: Disasters

Lead Agency: ESA

Proposed Participating Agencies: DLR, EC, EUMETSAT, NASA, NOAA, WMO, NILU, BIRA-IASB, KNMI

Constellation: ACC

Working Group: N/A

Caribbean and Africa Disaster Management Demonstration

Contribute radar and infrared data to a demonstration of disaster management using satellite data in the Caribbean and in Africa

CEOS Action: DI-09-02b_1

CEOS Action Category: 2

CEOS SBA Allocation: Disasters

Lead Agency: NASA

Proposed Participating Agencies: CSA, ESA, NASA, UNOOSA, SpotImage, ERDAS, Athena Global, GEO Sec, SERVIR, Cathalac

Constellation: N/A

Working Group: N/A



Health

End to End Projects for Health

GEO Task HE-09-03

- ***Implementation of a Meningitis Decision-Support Tool***
GEO Sub-Task HE-09-03a
- ***Towards a Globally Coordinated Malaria Warning System****
GEO Sub-Task HE-09-03b

Forecasting and Monitoring of Health Hazards from Coastal Water Color Measurements

Develop long-term architecture plans among CEOS agencies to support the measurement of coastal water color (300-meter accuracy) and near-surface (<100-meters) pollutants, pollens and dust for the forecasting and monitoring of health hazards

CEOS Action: HE-09-03a_5

CEOS Action Category: 1

CEOS SBA Allocation: Health

Lead Agency: CNES

Proposed Participating Agencies: NASA, UNOOSA, GEO, WHO

Constellation: ACC, OCR, OST

Working Group: N/A

Malaria Early Warning Systems

Ecological method and product integration into surveillance and decision making systems

CEOS Action: HE-09-03b_1

CEOS Action Category: 2

CEOS SBA Allocation: Health

Lead Agency: CNES

Proposed Participating Agencies: NOAA, CONAE, GISTDA

Constellation: N/A

Working Group: N/A

Study Malaria Risk Areas in Thailand

Study Malaria Risk Areas in Thailand using GIS and RS and collect remote sensing data from multiple satellites covering the entire Thailand and neighboring countries

CEOS Action: HE-09-03b_2

CEOS Action Category: 2

CEOS SBA Allocation: Health

Lead Agency: GISTDA

Proposed Participating Agencies: N/A

Agencies:

Constellation: OST

Working Group: N/A



Vegetation Health Index Products

Demonstrate the use of satellite derived vegetation health indices for early malaria detection in Africa and Asia

CEOS Action: HE-09-03b_4

CEOS Action Category: 1

CEOS SBA Allocation: Health

Lead Agency: NOAA

Proposed Participating Agencies: WMO, WHO

Constellation: N/A

Working Group: N/A

Energy

Management of Energy Sources*

GEO Task EN-07-01

NASA Products to Enhance Energy Utility Load Forecasting

CEOS Action: EN-07-01_1

CEOS Action Category: 2

CEOS SBA Allocation: Energy

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A



UNEP Solar Wind and Energy Resource Assessment

Enhancing UNEP Solar and Wind Energy Resource Assessment (SWERA) Program Decision Support System with Spaceborne Earth Observations

CEOS Action: EN-07-01_3

CEOS Action Category: 2

CEOS SBA Allocation: Energy

Lead Agency: USGS

Proposed Participating Agencies: NASA

Constellation: N/A

Working Group: N/A

Solar Shield

Solar Shield – Forecasting and Mitigating Space Weather Effects on High-Voltage Power Transmission Systems

CEOS Action: EN-07-01_4

CEOS Action Category: 2

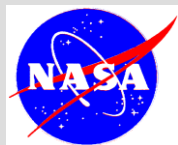
CEOS SBA Allocation: Energy

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A



Meta-analysis of Documents for Renewable Energy Applications

Conduct meta-analysis of documents prioritizing Earth observations for renewable energy applications

CEOS Action: EN-07-01_5

CEOS Action Category: 1

CEOS SBA Allocation: Energy

Lead Agency: NASA

Proposed Participating Agencies: CSIR, ESA, INPE

Constellation: N/A

Working Group: N/A



Climate

A Climate Record for Assessing Variability and Change

GEO Task CL-06-01

- ***Sustained Reprocessing and Reanalysis of Climate Data****

GEO Sub-Task CL-06-01a

- ***Key Climate Data from Satellite Systems****

GEO Sub-Task CL-06-01c

Reprocessed Altimetry and Atmospheric Chemistry Products

Reprocessed altimetry (Radar Altimeter 2) and atmospheric chemistry products (Schiamachy, GOMOS and MIPAS) from ENVISAT

CEOS Action: CL-06-01a_4

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: ESA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A

Recalibrate of Meteosat First Generation Archive

CEOS Action: CL-06-01a_5

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: EUMETSAT

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

Reanalyzed Global Sea Ice Data (1987/1995-2005)

CEOS Action: CL-06-01a_7

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: EUMETSAT

Proposed Participating Agencies:
NSC

Constellation: N/A

Working Group: N/A

Completion of NASA MERRA Reanalysis (1979-present)

CEOS Action: CL-06-01a_10

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A



Meteosat-5 MVIRI

Reprocess surface radiation product of MVIRI (1998-2004) for Meteosat-5 at 63 degree East service

CEOS Action: CL-06-01a_12

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: EUMETSAT

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

NPOESS CrIS CO Product Discussion

SIT discussion with NPOESS Program Scientist to mitigate CrIS degraded CO products

CEOS Action: CL-06-01c_5

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: NOAA

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

Calipso Lidar Simulator Development

Complete development of Calipso lidar simulator to improve climate models representation of clouds

CEOS Action: CL-06-01c_18

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: CNES

Proposed Participating Agencies: N/A

Agencies:

Constellation: N/A

Working Group: N/A

ACC Recommendations for Critical Climate Measurement Gaps

Complete a set of ACC recommendations to CEOS for addressing critical climate measurement gaps

CEOS Action: CL-06-01c_20

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: NASA

Proposed Participating Agencies: N/A

Constellation: ACC

Working Group: N/A

ACC-4 Workshop

Conduct an ACC-4 workshop focused on air quality

CEOS Action: CL-06-01c_21

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: ESA

Proposed Participating Agencies: N/A

Constellation: ACC

Working Group: N/A

Evaluate and Implement Improved TRMM Algorithm

CEOS Action: CL-06-01c_22

CEOS Action Category: 2

CEOS SBA Allocation: Climate

Lead Agency: NASA

Proposed Participating Agencies: N/A

Agencies:

Constellation: Precipitation

Working Group: N/A



Produce Annual Report on CEOS Climate Actions

CEOS Action: CL-06-01c_23

CEOS Action Category: 1

CEOS SBA Allocation: Climate

Lead Agency: NOAA

Proposed Participating Agencies: All agencies participating in GCOS actions

Constellation: N/A

Working Group: N/A

Global Carbon Observation and Analysis System

GEO Task CL-09-03

- ***Forest Carbon Tracking****

GEO Sub-Task CL-09-03b

- ***Global Monitoring of Greenhouse Gases from
Space****

GEO Sub-Task CL-09-03c

(No CEOS actions yet identified)

Discussed previously under agenda
item 5

Water

Capacity Building for Water Resource Management

GEO Task WA-06-07

- ***Latin America***
GEO Sub-Task WA-06-07a
- ***Africa****
GEO Sub-Task WA-06-07b
(No CEOS actions yet identified)

SIGMA Web-based GIS

Develop and release a web based GIS, named SIGMA, and a desktop application to handle products and data received by the GEONETCast (SKGMACast)

CEOS Action: WA-06-07a_1

CEOS Action Category: 2

CEOS SBA Allocation: Water

Lead Agency: INPE

Proposed Participating Agencies: CONAE, EUMETSAT, NOAA, WMO

Constellation: Precipitation

Working Group: N/A



Amazon and Southeast Brazil Hydrological Models

Make two different hydrological models: one for a large basin in the Amazon and other for an important watershed in Southeast Brazil, portable enough to disseminate them to users

CEOS Action: WA-06-07a_6

CEOS Action Category: 1

CEOS SBA Allocation: Water

Lead Agency: INPE

Proposed Participating Agencies: N/A

Agencies:

Constellation: Precipitation

Working Group: N/A

Integrated Products for Water Resource Management and Research

GEO Task WA-08-01

- ***Runoff***
GEO Sub-Task WA-08-01b
- ***Global Water Quality Monitoring***
GEO Sub-Task WA-08-01g

SOLS and HYSOPE Studies

- (a) SOLS (Service d'Observation des grands Lacs par Satellites): Study the feasibility pre-operational lake water volume monitoring using available altimeter data
- (b) HYSOPE (Hydrologie Spatiale OPErationnelle): Study the feasibility of NRT river and lake

CEOS Action: WA-08-01b_2

CEOS Action Category: 2

CEOS SBA Allocation: Water

Lead Agency: CNES

Proposed Participating Agencies: ESA, EUMETSAT, JAXA, NASA, NOAA

Constellation: OST

Working Group: N/A

CYMENT – Space Observations and Modeling for Land Hydrology

Carry out CYMENT a 3 year (2008-2010) project to develop a demonstrator devoted to the combined use of space observations and modelling for land hydrology

CEOS Action: WA-08-01g_3

CEOS Action Category: 2

CEOS SBA Allocation: Water

Lead Agency: CNES

Proposed Participating Agencies: N/A

Constellation: N/A

Working Group: N/A

Coastal and Inland Waters Capacity Building

Building capacity and focusing effort on coastal and inland waters, particularly in the context of extending algorithm development initiatives and alternative processing schemes (such as atmospheric correction)

CEOS Action: WA-08-01g_6

CEOS Action Category: 1

CEOS SBA Allocation: Water

Lead Agency: IOCCG

Proposed Participating Agencies: N/A

Agencies:

Constellation: OCR

Working Group: N/A

Ecosystems

Ecosystem Observation and Monitoring Network (GEO EcoNet)

GEO Task EC-09-01

- ***Ecosystem Classification and Mapping***
GEO Sub-Task EC-09-01a

Operationalise CBERS-2B Reception

Operationalise CBERS-2B reception at CSIR facility. Thereafter develop image mosaics of Southern Africa

CEOS Action: EC-09-01a_1

CEOS Action Category: 1

CEOS SBA Allocation: Ecosystems

Lead Agency: CSIR

Proposed Participating Agencies: EUMETSAT, INPE, CRESDA

Constellation: N/A

Working Group: N/A

Agriculture

Category 4 Actions only identified