New 2009-2011 CEOS-GEO Action Number	Former 2007-2009 CEOS-GEO Action Number	GEO 2009-2011 new Task Id	GEO Task Description	CEOS SBA Team Allocation	Action Status (OPEN / CLOSED)	CEOS Action Category: (1 to 4) TO BE CONSOLIDATED	Action Description	Due Date	POC	POC Email Address	Proposed Lead Agency	All Agency and Organization Participation	CEOS Working Group and Constellation Participation	Planned Deliverables & Milestones	Summary of Accomplishments & Issues	Reporting Date	Comments	Actions
AG-06-02 _2	NEW	AG-06-02	AG-06-02: Data Utilization in Fisheries and Aquaculture	Agriculture	OPEN	4	Publish an IOCCG monograph on "Applications of Remote Sensing in Fisheries and Aquaculture."	31/12/2009	James Yoder	jyoder@whoi.edu	IOCCG	CSA	OCR	1. **26-28 March 2008** - International Workshop on the Use of Remotely- Sensed Data as an Aid to Fisheries Deliverable – outline of monograph 2. **May 2009** – Full draft of IOCCG monograph 3. **December 2009** – final publication and distribution of IOCCG monograph (IOCCG Report 8)	1. 26-28 March 2008 - International Workshop on the Use of Remotely- Sensed Data as an Aid to Fisheries	February 18, 2009	The goal of this task is to enhance the utilization of satellite Earth observation data in fisheries research and management, as well as in aquaculture applications. Experts from the fisheries, aquaculture and coastal zone management sectors, as well as remote sensing specialists have been consulted at regional and international levels at the SAFARI international workshop. An IOCCG monograph on the Applications of Remote Sensing in Fisheries and Aquaculture has been drafted as a result of these consultations. Relevant synergies with the Ocean Colour Radiometry-Virtual Constellation (AR-09-02a) are being created that will provide products related to marine ecosystems and ocean biogeochemistry for near-surface global ocean and coastal waters.	2
AG-06-02 _3	NEW	AG-06-02	AG-06-02: Data Utilization in Fisheries and Aquaculture	Agriculture	OPEN	4	Development of EO tools for Ecosystem-based Marine Management	Fall 2011	Paul Briand	paul.briand@asc-csa.gc.ca	CSA		OCR	1. **March 2009:** Finalize the development of the EO-based ecosystem management and research tools, 2. **March 2009**: Application of these tools to an extensive suite of satellite, fisheries, and oceanographic time series to set the groundwork for better understanding of aquatic ecosystem dynamics in the northeast Pacific, 3. **March 2010:** Make EO-based databases and tools accessible to fisheries biologists and managers,	Concept and initial development of EO-based ecosystem and research tools	February 18, 2009	The CSA is involved in a number of fisheries and aquaculture related activities with a potential impact on the work of AG-06-02. The methodologies and approaches could be shared and applied beyond the current scope of the planned CSA activities.	Jim Yoder will contact Paul Briand for OCR connection. Brad Reed will coordinate the dates and SAR mission relevance.
AG-07-03a _4	NEW	AG-07-03a	AG-07-03a: Global Agricultural Monitoring System	Agriculture	OPEN	4	Integrating remote sensing data into selected models to enhance operational decision support for crops, drought and agricultural water management	Fall 2011	Paul Briand	paul.briand@asc-csa.gc.ca	CSA			1. **March 2008:** EO and geospatial data requirement (spec., processing method) **(March 2009 instead ?)** 2. **March 2008:** Review on modeling soil moisture and water balance using web enable data source – **(March 2009 instead ?)** 3. **Dec 2009**: Development, test, assessment and validation (data and model) 4. **March 2010:** AAFC - EO Workshop 5. **March 2010:** Evaluation and reporting	Initial document of user requirements developed (Eo and geospatial data requirement) Preliminary results on modeling development and test.	February 18, 2009	The CSA is involved in a number of agricultural projects, some of which have a direct bearing on potential tools for international agricultural monitoring. The activities listed below could contribute methodologies and potentially software to the development of next-generation international agricultural monitoring and decision support tools.	
AG-07-03c _1	AG-06-07_1	AG-07-03c	AG-07-03c: Expanding EO Applications in Agriculture and Promoting Capacity Building in Developing Countries	Transverse	OPEN	4	Preparation and delivery of training resources for GEO CBC activities. This is dependent on development of GEO portal and GEO NET:cast services This is a continuous task achieved via an assortment of training actions and courses conducted by several CEOS agencies and affiliates. Through its web site/portal, WGEdu will raise awareness of forthcoming training events of CEOS Members and other Organisations.	July 2009, then regular updates	Gordon Bridge	Gordon.Bridge@eumetsat.int	EUMETSAT	China, ISRO	WGEdu, SBA Experts and Constellations, as appropriate.	Published events/activities schedules on website/portal	Process discussed with GEO ADC in Boulder, Sept 2008. Awaiting further development of GEO Portal concept. Ongoing process - Propose new date 6/2009.	January 15, 2009	Also supports CEOS GCOS action C-22	Gordon Bridge will define the milestones and deliverables and find a GEO task (Capcity Building) for reference.
AR-09-01a _2	NEW	AR-09-01a	AR-09-01a: Enabling Deployment of a GEOSS Architecture	Transverse	OPEN	4	Complete Version 1 of the LSI Constellation Portal for Mid-Resolution Optical LSI Satellite System Information and Enhanced Data Access.	31/03/2009	G. Bryan Bailey	glbailey@usgs.gov	USGS	CEOS Agencies that operate mid-resolution, optical LSI satellite systems.	LSI WGISS WGCV	March 31, 2009 – Version 1 of Portal released to public.	On schedule	February 23, 2009	**Proposed WGCV involvement - The LSI Portal should follow the recommendations of QA4EO.** WGCV is ready to help. This task is important to WGCV as the QA4EO framework has recently established defines a common structure and set of requirements for "best practices" in the context of data and data product quality and associated Calibration and validation to enable interoperability. QA4EO has been established to also provide an appropriate document indexing system for such QA best-practices. In the context of this task QA4EO should be seen as the local depository and subsequent catalogue for QA best practices linked through the hierarchy and catalogue established under this task. It is therefore important that infrastructure of this data base reflects this structure and that those with QA related best practices are directed appropriately to ensure a coordinated and harmonised registry of "best practices" with appropriate level of community review. All Cal/Val data must be free and shared opening by all GEOSS members. Overall GEO data sharing principles should be developed as an overall CEOS initiative. Might be assigned to another GEO Task (e.g., Virtual Constellations). (from P.)	3
AR-09-02a _10	DA-07-03_10	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	Continued progress on moving GPM from formulation to implementation phase at NASA and JAXA. Action is necessary to realize GPM Phase of PC.	31/12/2009	Steven Neeck, Riko Oki	steven.neeck@nasa.gov oki.riko@jaxa.jp	NASA JAXA	NOAA, EUMETSAT, AEB/INPE, CNES, ISRO	PC	GPM DPR (JAXA) PDR (1Q2008) GPM DPR (JAXA) Delta PDR (2Q2008), GPM Core Spacecraft/Mission (NASA) PDR (4Q2008) GPM Mission (NASA) Confirmation (1Q2009) GPM DPR (JAXA) CDR (2Q2009) GPM GMI (NASA) CDR (2Q2009) 8th GPM International Planning Workshop (NASA,JAXA,CNES) (2Q2009) GPM Mission (NASA) CDR (4Q2008)	COMPLETED: GPM DPR (JAXA) PDR (1Q2008) COMPLETED: GPM DPR (JAXA) Delta PDR (2Q2008) COMPLETED: GPM Core Spacecraft/Mission (NASA) PDR (4Q2008)	February 9, 2009	JAXA will continue to contribute the Task. All constellations should be one of CEOS priority actions (deliverable).	10
AR-09-02a _15	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	Maintain continuity of the high-accuracy Jason altimetry time series	31/12/2009	Francois Parisot, Stan Wilson	francois.parisot@eumetsat.int Stan.Wilson@noaa.gov	EUMETSAT, NOAA	CNES, EC, ESA, EUMETSAT	OST	Dec 09: EUMETSAT and NOAA secure funding to implement Jason-3 Dec 09: Initiate conceptual definition study of Jason-4 (Jason-CS)		February 23, 2009		15
AR-09-02a _16	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	Develop Mission Requirements Document (MRD) for the OST Constellation	30/10/2009	Francois Parisot	francois.parisot@eumetsat.int	EUMETSAT	CNES, EC, ESA, EUMETSAT	OST	Jul 09: EUMETSAT issue the Mission Requirements Document (MRD) Oct 09: CEOS agencies involved in satellite altimetry will be asked to review and endorse the MRD for the OST Constellation		February 23, 2009		16
AR-09-02a _17	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	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	31/12/2009	Stan Wilson	Stan.Wilson@noaa.gov	NOAA	CNES, ESA, EUMETSAT, ISRO, SOA, US Navy	OST	Sep 09: CEOS invite Chinese SOA to CEOS 24th Plenary and SIT-24. Nov 09: ESA launch Cryosat-2 Dec 09: US Navy secure funding for GFO-2		January 26, 2009		17
AR-09-02a _19	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	Extend the capability of altimetry to denser observational coverage through the development of swath altimetry	31/08/2009	Eric Lindstrom Eric Thouvenot	eric.j.lindstrom@nasa.gov eric.thouvenot@cnes.fr	NASA CNES		OST	Aug 09: Delivery concept report		January 26, 2009		19
AR-09-02a _20	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	Improve PC radiometer intercalibration through new methodologies developed by the Precipitation Measurement Missions (PMM) Science Team intercalibration working group in coordination with the CGMS/GCOM-W.	01/06/2009	Steven Neeck	steven.neeck@nasa.gov	NASA		PC	Implement improved correction algorithm developed in initial phase of the first intercalibration study (see DA-07-03_1) for TRMM Level 1B brightness temperature product (May 20, 2009)		January 26, 2009		20
AR-09-02a _21	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	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	31/12/2009	Stan Wilson	Stan.Wilson@noaa.gov	NOAA	EUMETSAT, ISRO, CNES & SOA	OSVW	Sep 09: CEOS invite Chinese SOA to CEOS 24th Plenary and SIT-24. Oct 09: NOAA complete accommodate study with JAXA for flight of a 2-frequency QuikScat follow-on on GCOM-W2. Dec 09: ISRO Launch Oceansat-2		January 26, 2009		
AR-09-02a _24	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	Improved operational marine forecasting for the high seas using near-real-time winds from the OSVW and significant wave heights from the OST Constellations	30/09/2009	Hans Bonekamp Stan Wilson	hans.bonekamp@eumetsat.int Stan.Wilson@noaa.gov	EUMETSAT NOAA	CNES, ESA, ISRO, NASA, SOA + GMDSS Operational Marine Forecast Centers (MFCs)	OSVW	EUMETSAT, NOAA, and ISRO: Organization of an operational marine forecasters workshop addressing consensus products/formats, timely data access (within 3 hours of collection) and capacity building		February 23, 2009		24
AR-09-02a _25	NEW	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	Continue TRMM operations through 2009. Action is necessary to support GPM Preparatory Phase of PC.	31/12/2009	Steven Neeck, Riko Oki	steven.neeck@nasa.gov oki.riko@jaxa.jp	NASA JAXA	CNES, ISRO, INPE, ESA, CAST/NRSCC, NOAA, NRL, EUMETSAT, DLR, CSA	PC	Completion of 12 years of of TRMM 3-hr, multi-satellite standard products (TMPA, 3B42). <December 31, 2009	TRMM flight operations and data processing fully funded through September 2009 (preliminarily through September 2011). Preparing NASA Senior Review proposal for mission further extension. Spacecraft and instruments remain in good health with robust consumables.	February 5, 2009		
AR-09-02a _26	DA-07-03_11	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	1	Complete the definition of standards (guidelines) for future mid-resolution LSI satellite systems to produce information products that benefit several SBA areas.	01/09/2009	Bryan Bailey	glbailey@usgs.gov	USGS	NASA (SEO) JAXA (Dr. Takeo Tadono, tadono.takeo@jaxa.jp)	LSI	**1 March 2009:** Progress Report due . **15 May 2009:** Preliminary draft report due . **1 July 2009:** Report Review and Comment complete . **1 September 2009:** Final Report	1. Responsibility for completing this subtask was accept by the CEOS SEO in Summer, 2008 2. Project Plan presented September, 2008. - Done	February 16, 2009		
AR-09-02a _28	DA-07-03_11	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	Enhance timely acquisition of global datasets, including routine acquisition over defined calibration, environmentally sensitive, and other agreed upon sites.		Bryan Bailey	glbailey@usgs.gov	USGS		LSI		**1. Currently no LSI Constellation activity on this sub-tasking, pending volunteer to lead this work activity**	February 16, 2009		
AR-09-02a _29	DA-07-03_11	AR-09-02a	AR-09-02a: Virtual Constellations	Transverse	OPEN	2	Implement common data processing parameters, data formats, and map projections.		Bryan Bailey	glbailey@usgs.gov	USGS	INPE	LSI	1. Sub-task is being led by INPE from November, 2008. 2. Develop web-based tool or free-ware for converting various image formats to GeoTiff. 3. Develop web-based tool or free-ware for creating standard orthorectified images from Level 1 mid-resolution optical satellite data. 4. Milestones TBD pending consultation with INPE. **NEEDS FURTHER CONSOLIDATION**		February 16, 2009		
AR-09-02b _1	AR-07-04_1	AR-09-02b	AR-09-02b: WIS	Transverse	OPEN	4	AVHRR-based system, indices and data products (global assessment of vegetation health, vegetation and temperature conditions, drought, fire risk, land cover and climate-related vegetation tendencies) are used operationally and globally for early drought detection, monitoring drought development, intensity and impacts on agriculture, forestry, environment, land cover, human health (vector borne diseases), invasive species (locust).	31/11/2009	Felix Kogan	Felix.Kogan@noaa.gov	NOAA			Nov 09: Integrate NASA observational and predictive products into EPRI Sunburst model and evaluate impact on decision making efficacy. Deliver benchmark report.	Generating indices and real-time product archives is scheduled through 2012. the first round of tasks for 2008 foresee the generation of real-time observations and updated archives of NDVI with reduced noise, BT with reduced noise, 20-year climatology of NDVI and BT, Vegetation Condition Index (VCI), Temperature Condition Index (TCI) and Vegetation Health Index (VHI) by the end of the year, with real time indices online by April 2009.	February 23, 2009		Mitch Goldberg will review this action
AR-09-02b _2	NEW	AR-09-02b	AR-09-02b: WIS	Transverse	OPEN	2	**ACC Portal:** Identify requirements and implement a prototype ACC portal for evaluation and eventual use by the ACC, CEOSS and other AC user communities.	31/03/2010	Stefan Falke	Stefan.Falke@ngc.com	NASA Northrop Grumman		WGISS, ACC	1. **15 May 2009:** Initial ACC portal requirements & design. 2. **15 Sep 2009:** ACC portal prototype. 3. **19 Nov 2009**: GEO-6 demo of prototype 4. **31 Dec 2009:** Plans for portal governance / maintenance.	WGISS developed a prototype LSI Portal in 2008 to support the CEOS virtual constellation for land surface imaging. This task seeks to develop a second VC portal for Atmospheric Composition Constellation (ACC). The DLR and NASA have existing portals and access to AC data resources and tools to apply to the ACC portal. A meeting with DLR is planned in February. Final acceptance of this action will be determined after this meeting.	January 16, 2009	WGISS developed a prototype LSI Portal in 2008 to support the CEOS virtual constellation for land surface imaging. This task seeks to develop a second VC portal for Atmospheric Composition Constellation (ACC). The DLR and NASA have existing portals and access to AC data resources and tools to apply to the ACC portal.	2
AR-09-02c _2	NEW	AR-09-02c	AR-09-02c: Sensor Web Enablement for In-Situ Observing Network Facilitation	Transverse	OPEN	3	**Flood Sensor Web Emergency Response Prototype:** Identify scenarios and implement a prototype flood sensor web emergency response prototype for evaluation and eventual use by the IFRC and GEOSS.	31/03/2010	Terence van Zyl	tvzyl@csir.co.za	CSIR	NASA NSAU	WGISS	1. **28 Feb 2009:** Initial Flood SW prototype. 2. 31 Mar 2009: Scenario document complete 3. **15 Sep 2009**: Refined Flood SW prototype. 4. **31 Dec 2009:** Sensor web lessons learned.		January 16, 2009	WGISS created a sensor web interest group in 2007 to evaluate emerging sensor web enablement technology for applications to GEOSS. Existing sensors, satellites and models were identified to support a flood monitoring use case (annual river flood in Mozambique). The International Federation of the Red Cross and Red Crescent Societies of Geneva provides user requirements. This prototype is evaluating the OGC sensor web protocols (i.e., the interoperability aspects of the Flood Pilot under GEOSS AP-2 (new AR-09-02b)) and seeks to explore feasibility of sensor web technology to support near real-time applications of satellite data for emergency response. Team members also run the Caribbean Flood Pilot activity.	2
AR-09-03b _1	NEW	AR-09-03b	AR-09-03b: Legacy of the International Polar Year 2007-08	Climate	OPEN	4	Coordination of SAR Acquisitions to support science beyond IPY		Yves Crevier	yves.crevier@asc-csa.gc.ca	CSA	DLR, ASI, ESA, JAXA, WMO and others		Coordinated response of space agencies to IPY science objectives beyond IPY: May 2009 - SAR processing strategy; March 2010 - Data dissemination sustainability, through outreach strategy to demonstrate leverage of coordination between agencies (joint technical papers, conferences , etc)	Assessment of SAR system components; SAR Acquisition Plan Consolidation	February 18, 2009	The CSA has initiated, in close cooperation with several other CEOS agencies, a Space Task Group, operating under the umbrella of WMO, which is coordinating access to SAR satellites (X, C, and L bands) in support of IPY objectives. The ultimate objective is coordinated acquisition planning that goes beyond IPY and addresses special sites of interest (supersites) for longer-term polar monitoring activities.	

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AR-09-03d_3	WE-06-02_3	AR-09-03d	AR-09-03d: Global Observing System (GOS)	Weather	OPEN	2	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)	31/12/2010	Mitch Goldberg	Mitch.Goldberg@noaa.gov	NOAA			Feb 2009 -- Initial results with comparing control (no RO) and 6 and 12 RO constellations Dec 2010 - Interim report on results.	Resources have been secured.	February 23, 2009	Additional resources required and schedule feasibility needs to be assessed	
AR-09-03d_8	WE-06-02_8	AR-09-03d	AR-09-03d: Global Observing System (GOS)	Weather	OPEN	2	Availability of operational prototype for flood monitoring and landslide warning using TRMM data	31/12/2009	Steven Neeck	steven.neeck@nasa.gov	NASA			Improved (Version 6) prototype flood and landslide products publicly available (1Q2009) Integration of the Global Flood Potential Model into Pacific Disaster Center (PDC), Maui, Hawaii. Received letter of intent from PDC. Preparing unsolicited proposal for funding of testing of algorithms and transfer execution activities in 2009 and 2010.	Planning for operationalization continues with the Pacific Disaster Center (PDC), Maui, Hawaii. Received letter of intent from PDC. Preparing unsolicited proposal for funding of testing of algorithms and transfer execution activities in 2009 and 2010.	February 6, 2009		8
AR-09-03d_9	WE-06-02_9	AR-09-03d	AR-09-03d: Global Observing System (GOS)	Weather	OPEN	1	Production of Merged TRMM Multi-satellite Precipitation Products	2/1/2009	Steven Neeck	steven.neeck@nasa.gov	NASA			Make the Version 6 merged realtime algorithm the production version.	Version 6 development and testing completed. Switch over to production version postponed to 2/1/2009 to ensure staffing availability.	February 6, 2009		9
CB-09-01_1	NEW	CB-09-01	CB-09-01: Resource (or Seville Roadmap) Mobilization	Transverse	OPEN	4	Possible use of WGEdu Portal to keep CEOS and other agencies informed of progress, lists of potential Donors, info on fund application and project definition, etc.	31/12/2009	Gordon Bridge	Gordon.Bridge@eumetsat.int	EUMETSAT		WGEdu	Report on progress December 2009		January 15, 2009		Gordon Bridge will review the action and provide an update to the planned deliverables.
CB-09-02a_1	NEW	CB-09-02a	CB-09-02a: Recognition of Cross Border Education and Training in EO	Transverse	OPEN	4	Organize training courses in EO application training to the lower Mae Khong sub-region countries namely in Cambodia, Lao PDR, Myanmar, and Vietnam	31/12/2010	Supapis Pohngam	supapis@gistda.or.th	GISTDA		WGEdu	2009 – two countries 2010 – two countries		January 15, 2009	Agencies in Lao PDR: – National Authority for Science and Technology (NAST), Department of Space Technology (DST) – Water Resources and Environment Research Institute (WRER), Water Resources and Environment Administration (WREA) Agency in Vietnam: – Remote Sensing Center	Gordon Bridge will review the action and provide an update to the planned deliverables.
CB-09-02g_1	NEW	CB-09-02g	CB-09-02g: GEONETCast Training	Transverse	OPEN	1	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.	31/12/2009	Linda Moodie and Gordon Bridge	Linda.Moodie@noaa.gov, Gordon.Bridge@eumetsat.int	NOAA, EUMETSAT	CMA, WMO	WGEdu	This task is the responsibility of the GEONETCast Implementation Group. All three GEONETCast Regional Centers to establish and implement a training channel - July 2009; Internal White Paper on way forward - July 2009; External White Paper for users - November 2009; Demo at GEO-VI Plenary - November 2009.	* Demonstration by EUMETSAT of training/information channel made to the Africa User Forum in Accra, Ghana, October 2008. Several large volume training resources were simultaneously delivered to the PUMA workstations of every Met Service in Africa. * Demonstration by NOAA of training/information channel in November 2008 by broadcasting of large volume COMET training resources to the Americas and by sending materials across GEONETCast regions to EUMETSAT for broadcast to Africa. * Training materials will be listed on updated GEONETCast Product Navigator (portal), which is compliant with GEO AOC specifications. New version of Product Navigator expected in February 2009.	February 8, 2009		
CB-09-03b_1	NEW	CB-09-03b	CB-09-03b: Establishing Regional Capacity Building Networks	Transverse	OPEN	1	Provide 2-weeks training course 'Methods and Application of Ocean Color Remote Sensing in African Coastal and regional Seas'	31/12/2009	Nicolas Hoepffner	jpnicolas.hoepffner@jrc.it	IOCCG	EC (Joint Research Centre), ESA, NASA GEO Tasks EC-09-02 (ChloroGIN Network), AG-06-02 (SAFARI project)	OCR	- **Feb. 2009**- Training Course First announcement - **April 2009**- Collection of candidate applications, (course open to scientists, technicians, graduate students, and post-doctoral fellows involved in any aspect of marine research, water quality monitoring, fisheries, marine and coastal management) - **June 2009**- Selection of candidates (the course is intended for a maximum number of 18-20 persons, with priority to representatives of all African countries and Indian Ocean islands) - **June- July 2009** - Detailed course time table (incl. lecture sessions on theoretical aspects of OCR and practical initiation to image processing softwares) - **Sept. 2009** - IT support and technical preparation (computer configuration and datasets) - **Sept. 2009** - compile training material from lecturers and distribution of course synopsis - **Oct. 2009** - Training course - **Oct.-Nov. 2009**- Course evaluation and reporting - **Nov. 2009**- Training material on the web		One of IOCCG 's mandate is to broaden the user community for ocean-colour data, particularly in developing countries, through the coordination and sponsoring of advanced training courses. Over the last decade, 19 courses and training workshops were organized world-wide in different countries to promote the application of remote sensing satellite techniques and particularly ocean colour radiometry to monitor and analyse various aspects of the marine system, and support decision-making processes in the management of the coastal zone and marine resources. Current activities focus on consolidating the capacity building network in Africa.	1
CL-06-01a_4	CL-06-01_4	CL-06-01a	CL-06-01a: Sustained Reprocessing and Reanalysis of Climate Data	Climate	OPEN	1	Reprocessed altimetry (Radar Altimeter 2) and atmospheric chemistry products (Sciamachy, GOMOS and MIPAS) from ENVISAT	30/06/2009	Herland	Einar-Arne.Herland@esa.int	ESA			•**September 2008**: **Altimetry:** Envisat IPF (version 6.0) to be delivered for nominal operations and reprocessing purpose •**GOMOS:** baseline definition completed in August 2008, prototype verification ongoing. Reprocessing foreseen to start Q2/2009. •**MIPAS:** IPF version 5.0x under implementation, delivery anticipated October 2008. Reprocessing to begin in Q1/2009. •**SCIAMACHY:** New Level 1b IPF version 7.0x under implementation, Level 2 version 4.0x baseline basically accepted and operational implementation ongoing. Both expected in Q4/2008. Third full mission reprocessing to begin in Q1/2009. Fast delivery service for the operational Level 2 processor under implementation and to be active in Q4/2008.	**Radar Altimetry:** Reprocessing to start before summer 2009 and be finished in 2009 **SCIAMACHY:** Reprocessing being planned and should be done in 2010 **GOMOS** Reprocessing being planned and should be done in 2010 **MIPAS** Reprocessing being planned, but time schedule not fixed yet	February 19, 2009	This is usually done; it will be our mandate if the Climate initiative is approved.	4
CL-06-01a_5	CL-06-01_5	CL-06-01a	CL-06-01a: Sustained Reprocessing and Reanalysis of Climate Data	Climate	OPEN	1	Recalibrate of Meteosat First Generation Achive	31/03/2009	Schueller	Lothar.schueller@eumetsat.int	EUMETSAT			* Recalibration per spacecraft done mid 2009 * Homogeneous (between various MFG viz) calibration data series by end 2009 * Inter-Calibration with MSG and data series adaptation (if required) by end 2009 * GSICS Calibration activities TBD		January 15, 2009	Due date changed (e-mail from Rob Husband, Apr. 1, 2008)	5
CL-06-01a_7	CL-06-01_7	CL-06-01a	CL-06-01a: Sustained Reprocessing and Reanalysis of Climate Data	Climate	OPEN	1	Reanalyzed global sea ice data (1987/1985-2005)	28/02/2009	Schueller	Lothar.schueller@eumetsat.int	EUMETSAT	NSC		1. February 2009: Availability of daily ice concentration products (based on SSMI data and covering the period1987-2007) through the OSI-SAF Sea Ice Web Portal (http://saf.met.no) in NetCDF format; 2. February 2009: Availability of daily ice concentration products (based on SSMR data - period 1978-1987) through the OSI-SAF Sea Ice Web Portal (http://saf.met.no) in NetCDF format.	1. the 1987-2007 SSMI orbital data has been reprocessed, together with a first version of the daily gridded products. Work is underway on an improved daily gridding, with the aim of having daily products ready by the end of September => expected to be released in February 2009 after Review. 2. Availability of daily ice concentration products (based on SSMR data - period 1978-1987)" expected to be released in February 2009 after Review	January 15, 2009		7
CL-06-01a_10	CL-06-01_10	CL-06-01a	CL-06-01a: Sustained Reprocessing and Reanalysis of Climate Data	Climate	OPEN	1	Completion of NASA MERRA Reanalysis (1979-present)	31/08/2009	Reinecker	Michele.Rienecker@nasa.gov	NASA			1) **12/31/08:** 50% completion of product generation 2) **8/31/09:** 100% completion of production of the historical data stream to 2007	MERRA is Modern Era Retrospective Analysis for Research and Applications, an atmospheric reanalysis over the satellite era for climate. The MERRA progress is live updated at http://gmao.gsfc.nasa.gov/research/merra/progress-events.php. Currently, the available data in the three streams are 1979-1985, 1989-1995, and 1998-2002, respectively. 58% of the data has been completed as of Feb 5, 2009. The whole dataset is on schedule for completion in August, 2009.	February 9, 2009		10
CL-06-01a_12	CL-06-01_12	CL-06-01a	CL-06-01a: Sustained Reprocessing and Reanalysis of Climate Data	Climate	OPEN	1	Reprocess surface radiation product of MVIRI (1998-2004) for Meteosat-5 at 63 degree East service	31/03/2010	Schueller	Lothar.schueller@eumetsat.int	EUMETSAT			* Mid 2009 completion of 1998-2007 Meteosat 5 * End 2009 completion of 2006-2007 Meteosat 7	* Surface Radiation Product MVIRI for IODC Service (1998-2007, i.e. Meteosat-5) deal 60 % done. Completion mid 2009 * Surface Radiation Product MVIRI for IODC Service (2006-2008, i.e. Meteosat-7) 0 % done, completion end 2009	January 15, 2009	Former CL-06-01_6 split in two actions to cover reprocessing of MVIRI data for the 0 degree service and for the Indian Ocean Data Coverage service. E-mail from Rob Husband and Lothar Schueller (Apr 1, 2008)	12
CL-06-01c_5	CL-06-02_5	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	1	SIT discussion with NPOESS Program Scientist to mitigate CrIS degraded CO products	30/06/2009	Chris Barnet	chris.barnet@noaa.gov	NOAA			1. **May 2008**: Gather information about CrIS capabilities for high spectral resolution and prepare analysis of advantages/disadvantages for calibration and meeting EDR specifications and schedules. 2. **February 2009:** Define initial steps for required changes to bring down full spectral resolution of CrIS. 3. **June 2009:** Recommendation report to NESDIS AA.	**DELAYED** This action has been delayed, in part, due to a high priority issue with the CrIS Instrument's Mack body that made discussions on the high resolution issue mute. Information to summarize advantages/disadvantages of high spectral resolution in the CrIS SW and MW band is gathered. Mitch Goldberg will schedule a meeting in the next two weeks. The instrument is not launched yet. This action is to gather information in order to make a recommendation for a change to the instrument prior to launch to enhance its capabilities for a product that will be generated after launch. Information on the advantages/disadvantages of high spectral resolution in the CrIS SA and MW band has been gathered. High profile issues with the CrIS Instrument's body has made these discussions and resulted in this task being completed at the end of September instead of August. Briefing material has been completed.	February 23, 2009	This instrument is not launched yet. This action is to gather information in order to make is recommendation for a change to the instrument prior to launch to enhance its capabilities for a product that will be generated after launch.	
CL-06-01c_18	CL-06-02_18	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	1	Complete development of Calipso lidar simulator to improve climate models representation of clouds	30/06/2009	Renaut	didier.renaut@cnes.fr	CNES				the report shall be sent before the end of June 2009. Nevertheless, this action is going forward in the context of the CFMIP project, as shown in the attached paper by S. Bony for GEWEX Newsletter. This action shows very well how satellite data (Calipso, but also Cloudsat and others) allow to check the ability of climate models to simulate clouds.	December 23, 2008		Mitch Goldberg will review this action and provide an update to the planned deliverables
CL-06-01c_20	NEW	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	1	Complete a set of ACC recommendations to CEOS for addressing critical climate measurement gaps.	03/03/2009	Ernie Hilsenrath	ernest.hilsenrath@nasa.gov	NASA		ACC, SEO	**3 Mar 2009:** SIT Meeting Report	Jan 22: The ACC team has prepared a draft of the report and it is under review. On schedule.	December 9, 2008	e-mail from Brian Killough ("New ACC Actions", dated 8 december 2008)	20
CL-06-01c_21	NEW	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	1	Conduct an ACC-4 workshop focused on air quality.	09/09/2009	Claus Zehner	claus.zehner@esa.int	ESA		ACC, SEO	**15 Jun. 2009**: ACC-4 Workshop **9 Sep. 2009**: Report at SIT meeting	Jan 22: ACC-4 workshop tentatively planned by Claus Zehner. Event to be hosted by ESA in Frascati.	December 9, 2008	e-mail from Brian Killough ("New ACC Actions", dated 8 december 2008)	21
CL-06-01c_22	NEW	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	2	Evaluate and implement improved TRMM algorithm	31/1/2010	Steven Neeck	steven.neeck@nasa.gov	NASA		PC	December 30, 2009 Implement Version 7 of the TRMM standard algorithms January 31, 2010 Reprocessing and public release of the Version 7 standard products	Version 7 algorithm in development - January 2009	February 6, 2009		
CL-06-01c_23	NEW	CL-06-01c	CL-06-01c: Key Climate Data from Satellite Systems	Climate	OPEN	1	Produce annual status report on CEOS Climate Actions	30/09/2009	Mitch Goldberg	Mitch.Goldberg@noaa.gov	NOAA	All Agencies participating to GCOS actions		**Nov. 2009:** Produce annual status report on CEOS Climate Actions		February 23, 2009		
CL-09-03b_2	AG-07-01_2	CL-09-03b	CL-09-03b: Forest Carbon Tracking	Climate	OPEN	1	Continue research on use of SAR data for biomass estimation	31/4/2009	M. Shimada	shimada.masanobu@jaxa.jp	JAXA			April 2009: Produce a biomass map (limited area – perhaps France but TBD)	SAR data for biomass - contacted Shimada and received feedback. This activity that estimates the biomass is related to our project, Kyoto and Carbon initiative using the PALSAR. This project is the three years project and will be ended Jan. 2009. Thus, biomass map will be generated after the project report is delivered. Biomass information is difficult product to generate and has some more uncertainty for the accuracy.	January 15, 2009	JAXA will contribute to the Task by coordinating the CEOS community. JAXA would like to put this Task (CL-09-03b) as one of CEOS priority action (deliverable). JAXA would also like to lead the Task. The detail level of deliverable has not yet defined and JAXA will continue to coordinate.	Osamu will get an update on the status. Expand the action description.
CL-09-03b_3	NEW	CL-09-03b	CL-09-03b: Forest Carbon Tracking	Climate	OPEN	1	Global Carbon Observation and Analysis System: Process of carbon credit assessment and mapping in mangrove forest	31/12/2009	Chaowalit Silapathong	chaow@gistda.or.th	GISTDA			**April 2009**: Project planning for Carbon credit assessment from re-growth mangrove forest in Sawi Bay, Chumphon Province to determine re-growth rate, biomass and carbon credit of natural and manmade mangrove forest. **August 2009:** Present a project progress in the 2nd GEO Forest Carbon Monitoring symposium **December 2009:** Carbon credit assessment is expected to be achieved		January 15, 2009		3
CL-09-03b_4	NEW	CL-09-03b	CL-09-03b: Forest Carbon Tracking	Climate	OPEN	1	SAR data for forestry	15/12/2011	Yves Crevier	Yves.Crevier@asc-csa.gc.ca	CSA	CSA, ESA, DLR, ASI, CONAE, JAXA, NSC, CSIRO, others if interested		Mid 2009: development of a science requirement document, coordination of space agency agreements, archive data selection, processing and dissemination, plan for new acquisitions; Mid 2011: data access and dissemination, product development, workshop and training activities		February 24 2009		

New 2009-2011 CEOS-GEO Action Number	Former 2007-2009 CEOS-GEO Action Number	GEO 2009-2011 new Task Id	GEO Task Description	CEOS SBA Team Allocation	Action Status (OPEN / CLOSED)	CEOS Action Category: (1 to 4) TO BE CONSOLIDATED	Action Description	Due Date	POC	POC Email Address	Proposed Lead Agency	All Agency and Organization Participation	CEOS Working Group and Constellation Participation	Planned Deliverables & Milestones	Summary of Accomplishments & Issues	Reporting Date	Comments	Actions
DA-09-01a_7	NEW	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	Complete DOME-C Multi-Sensor Experiment	01/11/2009	Changyong Cao	Changyong.Cao@noaa.gov	NOAA	CEOS Agencies	LSI WGCV	Conduct a multi-sensor comparison to evaluate the size of any biases using the Dome C site as a reference standard. This will serve as a pilot for future regular CEOS comparisons over this and other reference sites to ensure data interoperability and to underpin the LSI constellation. Deliverable: The results of the comparison will allow an assessment to be made of the site's suitability for climate quality calibration. ***1) Jan 2009: The data acquisition over the Dome-C site by multiple sensors from various CEOS agencies and affiliations has been completed.*** ***2) February 2009: The next step is to obtain the data for analysis and assessment as soon as possible. The data has been requested by CEOS WGCV from the agencies and organizations. Data access to the task team must be accomplished via the agencies at a faster pace.Maybe SIT can help with this.*** 3) June 1, 2009: Develop the theoretical basis and standard procedure as part of the QA4EO guidelines for future cross comparisons. 4) Nov 1, 2009: Present results and put information on the CalVal portal. Add results and data to CalVal portal.	Jan 2009: The data acquisition over the Dome-C site by multiple sensors from various CEOS agencies and affiliations has been completed. February 2009: The next step is to obtain the data for analysis and assessment as soon as possible. The data has been requested by CEOS WGCV from the agencies and organizations. Data access to the task team must be accomplished via the agencies at a faster pace. Maybe SIT can help with this.	January 15, 2009		7
DA-09-01a_8	NEW	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	Develop CalVal Portal and post-launch Test Sites	01/11/2009	Gyanesh Chander Philippe Goryl	gchander@usgs.gov Philippe.Goryl@esa.int	USGS ESA	CEOS Agencies	WGCV	Oct 1: Develop a consolidated worldwide CalVal test site database and an appropriate subset of CEOS endorsed reference standards, based on community agreed criteria, to be included in the CEOS CalVal portal. Nov 1: Further expand the CalVal portal in both content and functionality		January 15, 2009		8
DA-09-01a_9	NEW	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	Develop radiometric standards for use in Earth Observation and develop a handbook.	01/11/2009	Nigel Fox	nigel.fox@npl.co.uk	BNSC/NPL			**July 1, 2009:** 1) Identify fundamental radiometric reference standards and application methods "best practices" for use in EO. **November 1, 2009:** 2) Develop a CEOS/WGCV standards and recommendations handbook as a summary of appropriate QA4EO guidelines and reference standards for instrument calibration. **July 1, 2009:** 3) Following the establishment of CEOS reference standards for post-launch CalVal, including the moon, standard deserts and LANDNET test sites, WGCV/VCS will ensure that the accompanying operational guidelines and coordinates are made available through the GEO/CEOS CalVal portal. This list of standards will be increased to encompass other application areas, e.g. water bodies, following approval by the WCS team.		January 15, 2009		9
DA-09-01a_10	NEW	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	Quality Assurance Framework for Earth Observation (QA4EO) Implementation	01/11/2009	Pascal Lecomte Gregory Stensaas	Pascal.Lecomte@esa.int stensaas@usgs.gov	ESA USGS	CEOS Agencies	CEOS Working Groups, Constellations	May 09: Work with CEOS WGISS on CalVal data access Jun 09: Develop and initiate an implementation plan for QA4EO Sep 09: Organise a community workshop to address implementation of QA4EO Nov 09: Establish outreach activities to promote QA4EO within the user community		February 24, 2009		10
DA-09-01a_11	NEW	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	CEOS Reference Test Site Data Collaboration and Comparison	01/05/2010	Nigel Fox Gyanesh Chander Philippe Goryl Changyong Cao	nigel.fox@npl.co.uk gchander@usgs.gov Philippe.Goryl@esa.int changyong.cao@noaa.gov	BNSC/NPL USGS ESA NOAA			Jun 09: Work with WGCV Subgroup leads to initiate dialogue with instrument owners relating to the collection of calibration data over CEOS-endorsed sites. Aug 09: Ensure collaboration and coordination for the evaluation of the data and the development of the results over comparative sites as a prototype for an operational EO calibration network. Nov 09: Peer-review the results and post them on the CalVal portal. May 10: esent information via CEOS/GEO venues. May 10: Publish significant results.		February 24, 2009		11
DA-09-01a_5	DA-06-02_5	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	Benchmark mission coordination between TRUTHS and CLARREO missions.	01/11/2009	Nigel Fox	nigel.fox@npl.co.uk	BNSC/NPL	ESA, NASA	WGCV/IVOS	**1. January 2009:** In the context of CEOS climate action A5 and the recognition of the need to establish a mission to provide "benchmark" measurements in space to support the interoperability (CalVal) of the virtual constellations, NASA, whilst considering options for its potential CLARREO mission, should seek to engage in dialogue with BNSC/ESA regarding potential collaboration in an international "CEOS" mission and the prospect of European support through an evaluation of TRUTHS. Deliverable: Inter-agency agreement to consider benefits, costs and options for a joint mission. **2. February 2009:** Agency (BNSC/ESA) commitment of resources to support a study to optimise the payload specification for a potential CEOS benchmark calibration mission in the VIS/NIR/SWIR spectral range based on the TRUTHS concept. Deliverable: Following resourcing, a report specifying key instrument and platform specifications needed to meet needs of climate action A5 and also to serve as a reference for the Land surface imager virtual constellation. Estimates of mission costs based on strawman instruments will also be provided. The specification will then be used to solicit potential collaborators from CEOS agencies.	The UK remains supportive and is looking at how to best support the most beneficial coordination between the two missions.	January 15, 2009	Additional resources (50-100 K GBP for 2008) required from BNSC/ESA for the TRUTHS prototyping.	5
DA-09-01a_6	DA-06-02_6	DA-09-01a	DA-09-01a: GEOSS Quality Assurance Strategy	Transverse	OPEN	1	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)	01/04/2009	Nigel Fox	nigel.fox@npl.co.uk	BNSC/NPL	USGS, NOAA, ESA, NASA	WGCV/IVOS	1: August 2008: Email request to CEOS agencies for financial support for comparison infrastructure 2: September 2008: CEOS SIT to remind agencies to respond 3: October 2008: (if funding available) send formal invitation to participate in IR radiance comparison 4: December 2008: Circulate formal comparison protocol 5: April/May 2009: Carry out comparison in Miami 6: May 2009: Initiate call for Land surface reflectance comparison 7: August 2010: Carry out CEOS comparison of Land surface reflectance	an international cross-comparison of ground CalVal support techniques and instrumentation for both IR emitted radiance (SST) will take place in March 09. A joint agency supported meeting is being organised by NPL who are currently looking for sponsors.	January 15, 2009	Resource required for 2009 from all participating agencies. CEOS/SIT to solicit support from all space agencies.	6
DA-09-01b_1	DA-06-04_1	DA-09-01b	DA-09-01b: Data, Metadata and Products Harmonization	Transverse	OPEN	1	**Land product harmonization:** 1) Continue developing the strategy for generating consistent biophysical products from medium resolution sensors. 2) Evaluate global land/cover classification at regional scale. 3) Update the BELMANIP, and intercompare the IAPAR products. 4) Publish the results.	30/12/2008	Frédéric Baret	baret@avignon.inra.fr	CNES/INRA	WGCV/LPV, NASA	WGCV/LPV	1) ***December 2009***: Continue developing the strategy for generating consistent biophysical products from medium resolution sensors. 2) ***Completed***. Evaluate global land/cover classification at regional scale. 3) ***Completed***. Update the BELMANIP, and intercompare the IAPAR products. 4) ***Completed***. Publish the results.	1: Continuous action. First output with GEOLAND2 European project version 1 products. It will consist in the fusion of the main medium resolution sensors (MODIS, VEGETATION, MERIS, AHRR) to get continuous and consistent long time series. It will result from learning relationships over the currently existing operational products (MODIS, CYCLOPES, SAF-Land, GLOBCOVER, JRC-IAPAR) after "standardization" to remove the main biases. The expected output (4km resolution for 1982-1998, and 1km for 1999-2008) will be ***June 2009 for sample products and end of 2009 for the whole series of data***. 2 and 4. Achieved over the Michoacan region comparing IGBP, Univ. Maryland, Globcover, GLC2000 and locally derived land cover maps. Results are quite frightening. A draft version of a paper is written and currently internally improved. It should be submitted by October 2008. 3. BELMANIP2 has been updated. A short article should be submitted to IEEE before the end of the year. Downloading the IAPAR data products is completed for VEGETATION, GLOBCOVER and MODIS, but still not for MERIS because we asked for a GPOD processing (Cat 1 #5749) , but we still have no answer from ESA.. so the completion of this action depends mainly on ESA!	February 23, 2009	F.Baret (25 Aug 2008): "we also undertook the development of OLIVE (On Line Interactive Validation Exercise) with possible implementation under the CALVAL portal for widely open and transparent community validation tool. This has been discussed with ESA for the actual tasks to complete and fund, but this is still a pending action."	4
DA-09-01b_2	NEW	DA-09-01b	DA-09-01b: Data, Metadata and Products Harmonization	Transverse	OPEN	1	**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.	30/09/2009	Ken McDonald	Kenneth.Mcdonald@noaa.gov	NOAA		WGISS, WGCV	1. ***May, 2009***: Form WGISS project 2. ***June, 2009***: Develop assignments for assessments 3. ***Sept. 2009***: Complete draft inputs to Assessment Report		February 23, 2009	Provided to WGISS for review and consideration. Proposed WGCV involvement - - - - July 2009: WGCV to provide recommended format and metadata for instruments pertaining to each WGCV subgroup.	
DA-09-03d_3	NEW	DA-09-03d	DA-09-03d: Global DEM	Transverse	OPEN	1	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.).	31/03/2010	Jan-Peter Muller	jpm@mssl.ucl.ac.uk	UCL/BNSC	METI, NASA	WGISS WGCV	Updated ICEDS Information Server. By 31 Mar 2010.		February 23, 2009	Issues: There are restrictions with regard to access to national high-resolution DEM data. Specific agreements may be required to obtain subsets for validation and in-fill. BNSC funding fiscal year 2009/10 has not yet been determined. Commitments are dependant on the securing of appropriate funding. Key international organisation(s) already assigned to work on this task from the satellite perspective. Are there any outstanding issues CEOS can help address in coordination with these organisation(s). JAXA and NASA are working on the provision of a high-resolution (30m) global DEM. Other CEOS Agencies an help in the co-ordination of validation activities and the provision of in-fill data. **Proposed WGCV TMSG involvement - incorporate Jan-Peter Muller's comments**	
DA-09-03d_4	NEW	DA-09-03d	DA-09-03d: Global DEM	Transverse	OPEN	1	Develop the sample DEM datasets derived from ALOS PALSAR and PRISM.	31/12/2009	Dr. Takeo Tadono	T.adono.takeo@jaxa.jp	JAXA		WGCV	**31 December 2009**: Sample datasets to be available by 2009 Dec.		February 23, 2009	Proposed WGCV TMSG involvement	
DI-06-09_5	DI-06-09_5	DI-06-09	DI-06-09: Use of Satellites for Risk Management	Disasters	OPEN	2	Development and operation of International Charter metadata catalog using GEO interoperability standards to contribute to GEO Portal	15/09/2010	Steven Hosford	steven.hosford@cnes.fr	CNES	ESA, CONAE, DMC, CSA, ISRO, NOAA, JAXA, USGS , CNSA, GISTDA		1. **March 2009**: Development of a link with the GEOSS Pilot project on Disasters (Flood) lead by SPOT image providing a demonstration of acces to image data (made available by SPOT Image) 2. **April 2009**: Demonstration of operational catalogue to Charter Board meeting with integration of CNES, ESA, JAXA and DMC metadata; 3. **September 2009**: Development and integration of parsers for other charter data providers (in discussion with partners - TBD); 4. **December 2009** - Integration of metadata associated with past charter activations	Initial catalogue format completed and validated by Disaster SBA Team 1. April 2008: presentation of catalogue format and initial work to Disaster SBA Team; creation of action item 2. September 2008: workplan for development of catalogue and plan for support from other Charter agencies to be presented to SIT	February 18, 2009	New action proposed by CNES at SIT -21 side meeting	
DI-06-09_6	NEW	DI-06-09	DI-06-09: Use of Satellites for Risk Management	Disasters	OPEN	2	Implementation of GEO-Charter Agreement for broadening access to Charter data	15/09/2011	Philippe Bally	philippe.bally@esa.int	ESA	CSA, other International Charter Members		**First Half of 2009** • Charter Executive Secretariat to make a formal proposal to the Board in April 2009 on how to improve global access to the Charter • Feedback from the Board to GEO in May/June 2009 **Second Half of 2009** • Meeting with GEO to organize practical implementation of the Board decision define a work plan and priorities (followed by regional Workshop(s) to raise awareness about the Charter and access modes)	1. Agreement in principle between GEO Secretariat and International Charter Executive to broaden access to GEO Member states	February 16, 2009		
DI-06-09_7	NEW	DI-06-09	DI-06-09: Use of Satellites for Risk Management	Disasters	OPEN	2	Analyze the response by WGISS members to supply near real-time data of the 2007 Wenchuan Earthquake to the Chinese response agency. Develop a working process model to integrate and make use of existing technologies within WG/SS/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.	30/11/2009	Lorant Czaran Pakorn Apaphant	Lorant.CZARAN@unoosa.org pakorn@gistda.or.th	UNOOSA GISTDA		WGISS	**April 30, 2009** – Working Process to be developed **June 30, 2009** –Testing the model **September 30, 2009** – Working Process defined at WGISS 28 **November 2009** –Document and include in WGISS Report at the CEOS plenary		February 16, 2009		
DI-06-09_8	NEW	DI-06-09	DI-06-09: Use of Satellites for Risk Management	Disasters	OPEN	4	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	15/07/2011	Guy Seguin	guy.seguin@asc-csa.gc.ca	CSA	ESA, CNES, CONAE, ISRO, NOAA, JAXA, USGS , GISTDA	All four constellations	The group will undertake the consolidation of the validated requirements and examine options for system development and implementation, using the following steps: • Roll-up across all disaster types to establish overall architecture requirements for Earth observation satellites - 15/08/2009 • Simulation of satellite systems to respond to the requirements - 15/10/2009 • Gap analysis for existing and planned satellite systems - 15/09/2010 • Recommendations for future satellite systems - 15/07/2011	1. Format for user requirements roll-up determined. 2. Initial architecture requirements (in PPT format) drafted. A similar methodology to that used for compiling user needs will be used to match those needs with prospective architectures. The architecture requirements are to be derived from each set of user requirements. This process has begun, but still requires validation by user communities and a roll-up across all disaster types and phases. This process will also include a gap analysis, beginning with systems already in orbit or planned to be in orbit, and a prioritization process based on the maximum value brought by new systems to fill existing needs.	February 18, 2009		

New 2009-2011 CEOS-GEO Action Number	Former 2007-2009 CEOS-GEO Action Number	GEO 2009-2011 new Task Id	GEO Task Description	CEOS SBA Team Allocation	Action Status (OPEN / CLOSED)	CEOS Action Category: (1 to 4) TO BE CONSOLIDATED	Action Description	Due Date	POC	POC Email Address	Proposed Lead Agency	All Agency and Organization Participation	CEOS Working Group and Constellation Participation	Planned Deliverables & Milestones	Summary of Accomplishments & Issues	Reporting Date	Comments	Actions
DI-09-01a_2	NEW	DI-09-01a	DI-09-01a: Vulnerability Mapping and Risk Assessment	Disasters	OPEN	3	Implement Action Plan for increased use of INSAR data by geohazard community	31/03/2009	Marc Paganini	marc.paganini@esa.int	ESA	NASA, JAXA, ASI, CSA, others TBD		1. Designation of supersites 2. Collection of data 3. Designation of a new leader for InSAR implementation (March 2009) 4. Drafting of a new Action Plan for supersite trials and extension of user services (TBD)	In December 2008, BRGM indicated it was no longer in a position to continue leading this activity. With the withdrawal of the "supersites" for budgetary reasons, internal priorities and lack of partner support, the GEO Task to which this action applies needs to be redefined, beginning with the designation of a new activity leader (expected in March) and the drafting of a new action plan. ESA remains strongly committed to the task. 1. Designation of supersites (completed) 2. Collection of data (on-going)	February 18, 2009	Under DI-06-08_2, an action plan was developed to ensure a greater integration of INSAR data for geohazards. CEOS can make an outstanding contribution to this plan by ensuring the implementation of this action plan. Under the action plan, a number of CEOS member agencies will make data contributions by collecting satellite imagery over supersites selected for their interest as prospective geohazard disaster zones.	
DI-09-01a_3	NEW	DI-09-01a	DI-09-01a: Vulnerability Mapping and Risk Assessment	Disasters	OPEN	4	InSAR Monitoring of active geohazard sites in Canada	Fall 2011	Vern Singhroy	vern.singhroy@nrcan.gc.ca	CCRS	CSA		Produce InSAR products of active landslides along strategic corridors and of selectively active areas; Produce InSAR archive of selected active geohazard areas in Canada; Develop new monitoring tools for high-risk areas Spring 09: InSAR monitoring of high risk geohazard sites : Maps and report Fall 09: InSAR Deformation Maps of Western Canada Landslides: **Spring 10:** InSAR Deformation maps of seismically active sites **Fall 10:** InSAR Deformation maps of Eastern Canada Landslides	Development of methodologie and tools to support operational, routine monitoring of subsidence using InSAR	February 16, 2009		
DI-09-02a_2	DI-06-08_2	DI-09-02a	DI-09-02a: Implementation of a Multi-Risk Management Approach	Disasters	OPEN	1	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.	30/06/2009	Claus Zehner	claus.zehner@esa.int	ESA	NASA, NOAA, EC, EUMETSAT, NILU, BIRA-IASB, KNMI, DLR, WMO	ACC	Are being planned for September		June 26, 2008	The draft SOW is written and the project will be done within DUE -once resources assigned	Guy to provide an update on the milestones
DI-09-02b_1	NEW	DI-09-02b	DI-09-02b: Regional End-to-End Disaster Management Applications	Disasters	OPEN	2	Contribute radar and infrared data to a demonstration of disaster management using satellite data in the Caribbean and in Africa	15/03/2011	Stuart Frye	stuart.frye@nasa.gov	NASA	NASA, CSA, ESA, UNOOSA, Spotimage, ERDAS, Athena Global, GEO Sec, SERVIR, Caribalac, Disaster SBA Team		**February 2009** - User requirements assessment **March/April 2009** - Proposed satellite solutions **June to October 2009** (Caribbean), and **Dec 2009 to January 2010** (Mozambique) - Demonstration period – **Dec 2009** - Assessment and recommendations for Phase II **March 2010** - Phase II capacity development plan - **Summer 2010** - Phase II implementation - **March 2011** - Evaluation and reporting -	1. Initial (PPT) statement of user requirements developed 2. Sensor-Web software developed to link satellite tasking to modelling forecast of flooded areas, based on Dartmouth Flood Observatory software 3. Discussion underway for steering committee meeting with users to be held March/April 2009	February 15, 2009	The Caribbean Flood Pilot initiated under DI-06-09 as a demonstration is now being undertaken in close cooperation with local disaster managers and several space agencies. This pilot will develop specific tools and methodologies that may be relevant in a broader context after the Phase I demonstration. IN the medium term, the task also aims to build regional capacity in relation to EO technologies and satellite data in particular.	
DI-09-03b_2	NEW	DI-09-03b	DI-09-03b: Implementation of a Fire Warning System at Global Level	Disasters	OPEN	3	Develop global fire warning system (geostationary and polar orbiting satellites)	31/12/2009	Ivan Csiszar	ivan.csiszar@noaa.gov	NOAA	All CEOS member agencies operating relevant remote sensing systems.	CEOS WGCV LPV for product validation and intercomparison. Potentially LSI	**Dec 2009** Draft plan for review **Jul 2010** Completed plan		February 24, 2009	This task is the follow-on to DI-06-13. Recent work has demonstrated a number of geostationary satellite systems can be used effectively to detect emerging fire hotspots in near-real time. As these systems become operational, there is a need to increase the effectiveness of the system by extending the warning to more generic mitigation activities and including parameters measurable from polar orbiting satellites such as vegetation condition and moisture. The task will review existing warning systems; CEOS members can assess the extent to which satellite data is used in these systems and suggest improvements	
DI-09-03b_3	NEW	DI-09-03b	DI-09-03b: Implementation of a Fire Warning System at Global Level	Disasters	OPEN	3	Operational implementation of geostationary fire monitoring for GOES, MSG and MTSAT.	30/09/2009	Ivan Csiszar	ivan.csiszar@noaa.gov	NOAA	NOAA, EUMETSAT, JMA	CEOS WGCV LPV for product validation and intercomparison. Potentially LSI	**June 2009** Approval for operational implementation **Sept 2009** Implementation.		February 24, 2009		
EC-09-01a_4	NEW	EC-09-01a	EC-09-01a: Ecosystem Classification and Mapping	Ecosystems	OPEN	4	Publish an IOCCG monograph entitled "Using Ocean Colour to Elucidate the Functional Structure of Marine Ecosystems"	31/12/2009	James Yoder	jyoder@whoi.edu	IOCCG	USGS	OCR	1. **Dec 2008** - meeting of WG Chairs (M. Dowell and T. Platt) to finalize the monograph. 2. **4th Quarter 2009** - publication and distribution of IOCCG monograph (IOCCG Report 9).			This task was established to coordinate and improve the observation, characterization and monitoring of terrestrial, freshwater, and oceans ecosystems – especially in terms of acquisition and use of satellite and in-situ observation. One of the goals is to promote the characterization and mapping of ocean ecosystems at regional and global scales. This topic is currently the focus of an IOCCG working group investigating the partitioning of the ocean ecosystem into biogeographical provinces using ocean-colour data as an aid in delineating the boundaries. Ocean-colour partitions can be applied to global-scale oceanographic problems such as the ocean carbon cycle and climate change, as well as to management of marine resources in general, and to fisheries management in particular.	
EC-09-01a_1	EC-06-02_1	EC-09-01a	EC-09-01a: Ecosystem Classification and Mapping	Ecosystems	OPEN	1	Operationalise CBERS-2B reception at CSIR facility. Thereafter develop image mosaics of Southern Africa.	30/09/2008	Daniel Mahapatra	afort@csir.co.za	CSIR	INPE, CRESDA, EUMETSAT		Operationalise CBERS-2B reception at CSIR facility. Thereafter develop image mosaics of Southern Africa.	In August 2008, CRESDA visited the CSIR SAC ground receiving station to test CBERS-2B reception. Testing was successful with several images being directly received, and 1 specifically over Accra Ghana downlinked from the on board storage disc. This image will be sent to Eumetcal for demonstration of the GEOneCast distribution model at the 7th AARSE conference in Accra, Ghana between 27 and 31 October. The ingest system being developed by CRESDA will be complete by October 2008 with full reception capability at CSIR SAC scheduled for November. The first mosaic over Malawi will be released demonstrated at Ottawna in November	September 14, 2008	This action is part of the CEOS Chair 2008 special theme project.	Asanda to provide updates
EC-09-01c_2	NEW	EC-09-01c	EC-09-01c: Regional Networks for Ecosystems	Ecosystems	OPEN	4	Contribution to both capacity building components of ChloroGIN and the coordination of a working group looking at regional algorithm development.	31/12/2011	James Yoder	jyoder@whoi.edu	IOCCG		OCR	1. October 2009 - Training Course on Ocean Colour methods and Applications – Tanzania 2. Initial Regional Algorithm WG meeting last quarter 2009 first quarter 2010.				
EN-07-01_1	NEW	EN-07-01	EN-07-01: Management of Energy Sources	Energy	OPEN	2	NASA products to enhance energy utility load forecasting	01/01/2010	Richard Eckman	r.s.eckman@nasa.gov	NASA			1. Report documenting hindcasting activities (6/09) 2. Real time demonstration of NASA observations in models (1/10)	1. Testing of historical data sets in neural net models (12/08) 2. User group organization (12/08)	February 17, 2009		
EN-07-01_3	NEW	EN-07-01	EN-07-01: Management of Energy Sources	Energy	OPEN	2	Enhancing UNEP Solar and Wind Energy Resource Assessment (SWERA) Program Decision Support System with Spaceborne Earth Observations	31/03/2010	Gene Fosnight	fosnight@usgs.gov	USGS	NASA		1. Develop verification and validation report of activities (12/08) 2. Conduct Central American small hydropower resource assessment and deliver benchmark report describing activities (12/09)	1. Use NASA Earth observation products to extend SWERA database to global coverage and make data available of SWERA website (9/08) 2. Improve mapping and user interface of website (9/08)	February 17, 2009		
EN-07-01_4	NEW	EN-07-01	EN-07-01: Management of Energy Sources	Energy	OPEN	2	Solar Shield – Forecasting and Mitigating Space Weather Effects on High-Voltage Power Transmission Systems	01/11/2009	Antti Pulkkinen	antti.a.pulkkinen@nasa.gov	NASA			Nov 09: Integrate NASA observational and predictive products into EPRI Sunburst model and evaluate impact on decision making efficacy. Deliver benchmark report.	Delivered 1st report (Solar Shield Evaluation) in January 2008. Delivered 2nd report (Validation and Verification) in Feb 09. Benchmark report on schedule for Sept 2009.	February 17, 2009	Updated deliverable and due dates per Gene Foresight	Rich Eckman to contact Pat Erich or other agencies for participation. Still awaiting replies from Norway and Sweden.
EN-07-01_5	NEW	EN-07-01	EN-07-01: Management of Energy Sources	Energy	OPEN	1	Conduct meta-analysis of documents prioritizing Earth observations for renewable energy applications.	01/09/2009	Richard Eckman	r.s.eckman@nasa.gov	NASA	ESA, INPE, CSIR		Sep 09: Final meta-analysis report and recommendations	Preliminary report of meta-analysis (1/09) : Task led by Battelle (a non-CEOS organization), but funded by NASA. Work is also coordinated with Lawrence Flood at NASA HQ.	February 17, 2009	Task led by Battelle (a non-CEOS organization), but funded by NASA	
HE-09-01_1	HE-07-01_1	HE-09-01	HE-09-01: Information Systems for Health	Health	OPEN	4	Develop a long-term plan to support critical space-based imagery to support modeling, forecasting and monitoring of health issues.	01/11/2010	Murielle Lafaye	murielle.lafaye@cnes.fr	CNES	GEO, UNOOSA, WHO, GMES	WGISS	July 6-7: Workshop at WMO in Geneva, Prepare a plan of implementation Nov 2010: Earth Observation Handbook for health	- REDGEMS website: www.redgems.org	December 24, 2008	Health SBA to participate in Fall-08 WGISS meeting.	
HE-09-01_2	HE-06-03_2	HE-09-01	HE-09-01: Information Systems for Health	Health	OPEN	3	Demonstrate a global smoke plume and dust forecasting product (IDEA) using multiple satellites and trajectory models for air quality health hazards	31/08/2009	Jack Fishman	j.fishman@larc.nasa.gov	NASA	NOAA, ESA, EC, WMO	ACC, WGISS, WGEdu	(1) Feb 29, 2008: Develop automated software to accommodate forecast products and observations from multiple satellite sensors. (2) July 31, 2008: Conduct initial demonstration of prototype aerosol/smoke forecasting products (3) May 1, 2009: Conduct a statistical evaluation of the developmental automated aerosol forecast products. (4) Aug 31, 2009: Submit ROSES proposal (Applied Sciences, Decision Support) for global web-based satellite aerosol product distribution.	(1) **COMPLETE** - Developed automated software to acquire, synthesize, create forecast products, and visualize aerosol observations from multiple satellite sensors. (2) **COMPLETE** - Conducted initial demonstration of prototype aerosol/smoke forecasting products in near-real-time during the 2008 NASA ARCTAS and NOAA ARCPAC field missions. (3) IN PROGRESS - 48hr automated aerosol forecasts have been archived for statistical analysis. Aeronet aerosol optical depth measurements have been acquired for forecast verification.	February 11, 2009	Was HE-09-02a_2 previously (changed on Feb 9, 2009). Combined with information from Brad Pierce response (IDEA).	
HE-09-02b_3	HE-06-03_3	HE-09-02b	HE-09-02b: Air Quality Observations - Forecasting and Public Information	Health	OPEN	3	Demonstrate the capability of combining NO2 data from Aura/OMI and Metop/GOME-2 to support US EPA and European emission inventories for improved air quality forecasting.	30/06/2009	Shobha Kondragunta	Shobha.Kondragunta@noaa.gov	NOAA	NASA, Harvard University, KNMI, EUMETSAT, USEPA	ACC, WGCV			February 23, 2009		Ernie will get with Shobha to determine a set of milestones
HE-09-03b_4	HE-06-03_4	HE-09-03b	HE-09-03b: Towards a Globally Coordinated Malaria Warning System	Health	OPEN	1	Develop a plan to integrate in situ vegetation health data to improve global Vegetation Health Index (VHI) products in affected countries.	30/12/2010	Felix Kogan	Felix.Kogan@noaa.gov	NOAA	STAR, WMO, WHO		Demonstrate VH capability in: □ Africa (Kenya and Senegal) - **2009** □ Asia (Bangladesh and India) - **2010** Report on demonstration projects Africa **(2009)**, Asia **(2010)**				
HE-09-03a_5	HE-06-03_5	HE-09-03a	HE-09-03a: Implementation of a Meningitis Decision Support Tool	Health	OPEN	1	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.	30/06/2009	Murielle Lafaye	murielle.lafaye@cnes.fr	CNES	GEO, UNOOSA, WHO, NASA	ACC, OST, OCR					Murielle Lafaye to provide milestones.
HE-09-03b_1	NEW	HE-09-03b	HE-09-03b: Towards a Globally Coordinated Malaria Warning System	Health	OPEN	2	Malaria Early Warning systems – Ecological method and product integration into surveillance and decision making systems	31/12/2011	Murielle Lafaye	murielle.lafaye@cnes.fr	CNES	NOAA, CONAE, GISTDA		July 6-7, 2009: Workshop at WMO in Geneva - "Malaria monitoring from space: methods and validation" Dec 2011: CEOS coordinated international Malaria monitoring demonstration project Africa-Asia, 2009-2012; this international cooperation would benefit from results of WASSA, MATE and other CNES Malaria demonstration projects undergoing.		Jan 14, 2009	CNES and partners ecological method for malaria vector abundance risk maps and malaria risk maps, - CNES-WHO workplan 2009-2010, developing Open Health WHO information system - Development of demonstration project for health societal benefit - WASSA project, integrating epidemio-surveillance data in OpenHealth GIS for WHO, - MATE, monitoring and forecasting of malaria in Argentina and Paraguay, - Urban Malaria in Dakar, monitoring and forecasting of malaria in Dakar city, - REDGEMS information system, gathering data projects and disseminating projects results to improve the use of remote sensing for health issues. Issues: 1. Data policy: access to environment and health databases at national level, and for a cooperation at international level; interoperability between databases, 2. Sustainability study for EOT products to be integrated in the surveillance and decision making systems.	Murielle Lafaye to contact Giovanni about the EC support for proposa evaluation teams
HE-09-03b_2	NEW	HE-09-03b	HE-09-03b: Towards a Globally Coordinated Malaria Warning System	Health	OPEN	2	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.	30/11/2009	Chaowalit Silapathong	chaow@gistda.or.th	GISTDA		OST	**April 09:** Project planning **May 09:** To study the distribution pattern and the risk area assessment of Malaria outbreak in the border of Thailand using satellite imagery November '09: Report of the study can be presented and disseminated		Jan 14, 2009		Pakorn will investigate participation from other organizations.

New 2009-2011 CEOS-GEO Action Number	Former 2007-2009 CEOS-GEO Action Number	GEO 2009-2011 new Task Id	GEO Task Description	CEOS SBA Team Allocation	Action Status (OPEN / CLOSED)	CEOS Action Category: (1 to 4) TO BE CONSOLIDATED	Action Description	Due Date	POC	POC Email Address	Proposed Lead Agency	All Agency and Organization Participation	CEOS Working Group and Constellation Participation	Planned Deliverables & Milestones	Summary of Accomplishments & Issues	Reporting Date	Comments	Actions
ST-09-02_1	NEW	ST-09-02	ST-09-02: Promoting Awareness and Benefits of GEO	Transverse	OPEN	3	Highlight CEOS contribution (OCR Constellation) to achieving GEO goals at the OceanObs Conference in 2009.	30/09/2009	James Yoder	jyoder@whoi.edu	IOCCG		OCR	**March 31, 2009.** Submit white paper to OceanObs'09 organizing committee. Two papers including OCR Constellation and Chlorogen. **September, 2009.** Make presentation at the meeting.		January 15, 2009	The OCR-VC submitted a proposal to produce a Community White Paper to the OceanObs'09 conference Program Committee, and we were informed that our proposal was accepted. The conference will be held in Venice, Italy, in September, 2009, and is a major international conference related to ocean observations with the following goals: • calisbrate progress in implementing the existing initial ocean observing system, realizing societal benefits from it and highlighting its potential. • develop a consensus plan for sustaining and evolving systematic and routine global ocean observations over the next 10 years in support of societal benefits. The Community White Papers (CWPs) for OceanObs'09 will be a part of the permanent record of the meeting published as a part of the proceedings by ESA, and form an important building block for community plans for the ocean observing system for the coming decade. **Proposed WGCV involvement** - CEOS WGCV notes the critical importance of this task and will provide support on the messages and content related to data product QA.	
US-09-03b_4	AG-06-04_4	US-09-03b	US-09-03b: Forest Mapping and Change Monitoring	Transverse	OPEN	2	Compile mid-resolution LSI data sets over Southern South America, Southeast Asia, and part of Africa.	31/12/2009	Bryan Bailey	glbbailey@usgs.gov	USGS	CONAE	LSI	1. WGRDSC to follow-up with agencies to work out specific arrangements for data contributions – 03/15/09. 2. Report results of negotiations with agencies to provide data – 06/15/09. 3. Compile regional data datasets from 01/09 forward. 4. Report on status of regional data set compilation – 11/09	This action is primarily the responsibility of the LSI Constellation Working Group on Regional Data Set Compilation (WGRDSC), and progress continues to be made toward completion of this Action. 1 and 2 done: 1. WGRDSC Co-Chairs to send a letter to CEOS Principals of agencies that currently operate mid-resolution optical LSI satellite systems seeking their support in the compilation of the regional data sets. (10/26/08 – Done) 2. Responses received from all agencies contacted – most of which were positive. (10/2/09 – Done)	February 17, 2009	TWe was determined as an action at the February LSI constellations meeting in Sanya Data sets may be selected over forested and agricultural areas (e-mail from Brad Reed, 07 Mar 2008, reporting discussion with Bryan Bailey) Should we include INPE's PRODES project monitor deforestation in support to AG-06-04 (NEW ACTION ?) Original AG-06-04_2 split in 2 actions as per Bryan Bailey's e-mail ("Re: AG-SBA input", dated March 17, 2008) CONAE will provide SAC-C data 12/31/09 is the correct end date as the activity is to compile data that will become part of the GLS 2010 data set, and the window for that is from about now through 2011/2012. So, it is necessary to extend the acquisition window for the regional data set compilation activity well into 2009.	Bryan Bailey will update the due date and milestones for this action.
WA-06-07a_1	WA-06-07_1	WA-06-07a	WA-06-07a: Latin America	Water	OPEN	2	Develop and release a web based GIS, named SIGMA, and a desktop application to handle products and data received by the GEONETCast (SIGMACast)	31/08/2008	Carlos Frederico Angelis	angelis@cptec.inpe.br	INPE	NOAA, EUMETSAT, CONAE, WMO	PC	1> **July 2007:** Begining of development of the web based GIS (SIGMA) using MAPSERVER technology; 2> **September 2007:** Begining of development of SIGMACast using the existent GVSIG project; 3> September 2008: Release of SIGMACast Beta Version; 4> **December 2008:** Release and dissemination of SIGMACast (download via INPE website and/or DVD distribution); 5> May 2009: Release of SIGMA web based GIS with basic functions: 6> **2009-2010:** Improvement of both: SIGMA and SIGMACast	From POC - The beta version is ready and has been tested. Improvements must be done and a software company will be contracted to carry out this job. We expect to have the SIGMACast version 1.0 by August 2009. the GEONETCast (SIGMACast) was reported by INPE at the CEOS Precipitation Constellation workshop in June.	February 5, 2009		
WA-06-07a_6	WA-08-01_6	WA-06-07a	WA-06-07a: Latin America	Water	OPEN	1	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	31/07/2009	Carlos Frederico Angelis	angelis@cptec.inpe.br	INPE		PC	Operational implementation of the Purus Hydrological Model (Brazilian Amazonia) in March 2008 and operational implementation of Paraiba do Sul Hydrological Model (Southeast of Brazil) expected for July 2009	PARTIALLY COMPLETED. The operational model is running and produces hydrological information over the Purus Basin in real time. The results are available at http://paraguay.cptec.inpe.br/purus/index.jsp. The Paraiba do Sul Hydrological Model is under construction	December 24, 2008		
WA-08-01b_2	WA-08-01_2	WA-08-01b	WA-08-01b: Runoff	Water	OPEN	2	(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	31/12/2008	Nelly Mognard	nelly.mognard@cnes.fr	CNES	ESA, NASA, JAXA, NOAA, Eumetsat	OST		an intermediary report concerning WA-08-01_2 for the SOLS projec has been produced. It is available on the CEOS doc server.	February 5, 2009		Osamu will check on the status of this action. Is it closed ? Are there reports ?
WA-08-01g_3	WA-07-01_3	WA-08-01g	WA-08-01g: Global Water Quality Monitoring	Water	OPEN	2	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	31/12/2010	Nelly Mognard	nelly.mognard@cnes.fr	CNES			January 2009: preliminary results on the implementation, evaluation and calibration of the different algorithms, methods, models and data sets January 2010: implementation, evaluation and calibration of the different algorithms, methods, models and data sets; start of production of hydrology products from the synergy of satellite data and numerical models; December 2010: test for regional observatories for water resources and quality, data archive for hydrology products, establish the possible links between users and research, promotion of the new services and products.	January 2008: kickoff meeting June 2008: presentation of the different projects from the partners October 2008: definition of the project website and internal data exchange platform … the web site that the project is using is the following: http://www.legos.obs-mip.fr/fr/equipes/gohs/resultats/l_hydroweb	February 6, 2009		
WA-08-01g_5	WA-07-01_5	WA-08-01g	WA-08-01g: Global Water Quality Monitoring	Water	OPEN	3	Select projects in 2008 from those applied to a call for proposals to further develop remote sensing techniques for water quality related variables for in-land bodies of water and near coastal environments.	30/06/2009	Jared Entin	jared.k.entin@nasa.gov	NASA	IGWCO		1) Nov 08 - Set up a panel to review proposals. 2) Jun 09 - Complete proposal review and selections.	Sixteen proposals were submitted the week of August 18, 2008. Selections are expected to be completed by the end of March 2009.	February 11, 2009	was WA-06-07d_5 (modified on Feb 10, 2009)	
WA-08-01g_6		WA-08-01g	WA-08-01g: Global Water Quality Monitoring	Water	OPEN	1	Building capacity and focusing effort on coastal and inland waters. Particularly in the context of extending algorithm development initiatives [illegible]	30/05/2009	James Yoder	jyoder@whoi.edu	IOCCG		OCR	May 09: GEO Inland and Near-Coastal Water Quality Algorithm Workshop		January 26, 2009		