

Actions resulting from CEOS 17th Plenary that relate, at least in part, to the work of the WGEdu for 2004

A. Action 17-04 ask all Working Groups to report on any contributions to the implementation of any of the recommendations below. Recommendation 7, specifically mentions WGEdu.

***CEOS ad hoc Team on Utilization
Recommendations***

All of the following were approved

1. *It is recommended that CEOS space agency members consider (a) making data streams available in real time whenever possible, and (b) provide any necessary preprocessing software, a benchmark data set and a focal point for questions.*
2. *Space agencies are urged to reevaluate the way in which they provide information about past, current and future systems including the provision of high quality up-to-date information concerning instrument performance especially calibration and product quality assessments. In this regard the maximum use should be made of the CEOS/WMO data base.*
3. *CEOS space agency members need to develop information systems with more integrated catalog, search, ordering and retrieval mechanisms. It is recommended that the WGISS Working Group study how best to develop this incrementally for particular application fields building on experience gained in developing such capabilities with CEOP.*
4. *It is recommended that CEOS space agency members commit to seeking ways of increasing and improving partnerships, including those with NGOs and universities.*
5. *It is recommended that CEOS space agency members provide mechanisms to allow the creation of products developed at a regional level, such as global albedo, fire products, as well as other key global data sets.*
6. *CEOS agencies are invited to agree to make data easily and cheaply available, especially when it is in response to a specific request consistent with CEOS efforts to promote sustainable development in its widest sense.*
7. *It is recommended that wherever possible capacity building be integrated within specific projects and in particular in ones where sustained funding will be available following the success of the prototype phase. The ad hoc Working Group on Education and Training should be asked to take account of this recommendation in its work and report on its response to CEOS Plenary 2004.*

8. *It is recommended therefore that CEOS members make best efforts to adopt the GCOS Climate Monitoring Principles.*
9. *It is recommended that the Chairman of CEOS:*
 - *ensures that the subject is included on the agenda of future Plenaries;*
 - *gives instructions to the three Working Groups to give priority to assisting in the implementation of the Team's recommendations over the coming years; and*
 - *proposes to continue the subject as a priority theme for the coming year.*

Action Item	Brief Description of 17th CEOS Plenary Actions
17-04	CEOS Chair to continue to focus on satellite data utilization, arranging workshops as appropriate, and carrying forward CEOS Utilization Recommendations, in particular, Recommendation No. 9 on space agency cooperation. CEOS Agencies and CEOS Working Groups are asked to report to the 18 th Plenary on how they have implemented specific CEOS Utilization Recommendations.

B.

CEOS WSSD Follow-up Programme Capacity Building Principles

All of the following were approved

1. *As CEOS, through its Members and Associates, undertakes activities promoting sustainable development-oriented activities which include capacity building components, it should remember to acknowledge social, economic, and environmental applications that address locally-defined data and information needs, and take steps to promote access to data and information for sustainable development.*
2. *By linking space agency resources (which are, at minimum, access to remote sensing expertise and education materials) to locally-defined needs, CEOS should promote the utilization of satellite information through training and education, provision of data and information, and/or partnerships with users.*
3. *To support sustainable development, CEOS should build long-term and sustainable partnerships through its Members and Associates with relevant organizations and institutions, notably, universities, specialized and professional remote-sensing organizations, and government and non-governmental organizations.*
4. *Through its unique and high-level membership, CEOS should assist local organizations to raise awareness of the importance of Earth observation data and information with their key local and governmental decision makers.*
5. *CEOS' capacity-building efforts should build on existing local programs, and engage existing organizations, always recognizing local capacity (e.g., in*

terms of expertise, communications infrastructure, and other resources) and respecting indigenous knowledge and local priorities.

6. *Understanding that CEOS is not the only space-oriented organization interested in supporting capacity building efforts for sustainable development, CEOS should avoid duplication of effort by coordinating its activities with like-minded groups.*
7. *CEOS Members and Associates should appropriately model capacity building by encouraging – and when necessary financially supporting – involvement of developing country representatives in WSSD Follow-up Programme activities, and by participating in and supporting relevant forums and events.*
8. *CEOS’ short-term and long-term education, training, and capacity building efforts should be complementary, comprehensive, and measurable to be valued and further supported by the CEOS membership.*

Module 2 Co-leader Dr. Josef Aschbacher of ESA presented a summary of the ESA TIGER Programme and its involvement with Module 2. During 2003, substantial work was undertaken which involved a number of CEOS Members and Associates. Key milestones of the Module 2/ TIGER activities included the TIGER-1 Workshop in Rabat, the adoption of a “Water and Space” Action Plan, and the TIGER Plan of Implementation for 2003-05.

Module 2 Co-leader Chu Ishida also described Japan’s involvement in Module 2 activities, including CEOP.

In subsequent discussion, CEOS Agencies welcomed the creation of the Africa Advisory Group and asked the WGEdu and WSSD Teams to use the AAG to support their efforts in Africa. CEOS Members and Associates were similarly encouraged to involve the AAG in their respective activities, as appropriate. The following Plenary Actions were agreed:

Action Item	Brief Description of 17th CEOS Plenary Actions
17-07	CEOS Agencies, WGEdu, and WSSD Follow-up Programme Modules are encouraged to involve the CEOS African Advisory Group in the implementation activities.

In presenting the WGEdu Report, Sergio Camacho gave a brief overview of the activities of the Ad hoc Working Group over the past 2 years, with particular emphasis on the activities of the past year including the CEOS Special Event of the preceding day. He also presented the CEOS Principles of Satellite Data Provision in Support of Earth Observation Education and Training for adoption by CEOS Agencies, and further requested CEOS Agencies to change the status of the WGEdu to a permanent Working Group. The Principles (provided below) and the permanent Working Group status were approved by the CEOS Agencies. The name of the Working Group was also changed to “CEOS Working Group on Education, Training and Capacity Building,” and remains abbreviated as WGEdu.

Resolution on Principles of Satellite Data Provision In Support of Earth Observation Education and Training

1. *CEOS Agencies should endeavour to provide on a sustainable basis comprehensive and complete data sets for education, training and capacity building purposes.*
2. *When making data available for education, training and capacity purposes, CEOS agencies should strive to adhere to the satellite data exchange principles in support of global change research (1992) and principles on satellite data provision in support of operational environmental use for the public benefit (1994), as previously adopted by CEOS.*
3. *CEOS Agencies should provide access to data at the lowest possible cost and on a non-discriminatory basis.*
4. *CEOS Agencies should provide easy and timely access to their data and information which are to be used for Earth observation education and training. This access can be through individual agencies' distribution mechanisms or through mechanisms developed by CEOS, such as WSSD Follow-up Programme.*

As a result of discussions on the Ad hoc Working Group report and the Education and Training Data Principles, CEOS Agencies developed the following Plenary Actions:

Action Item	Brief Description of 17th CEOS Plenary Actions
17-10	All CEOS Agencies are urged to nominate representatives to the Working Group on Education and Training and Capacity Building who are prepared to assist with the development and implementation of the WGEdu portal website, WGEdu Data Principles, WSSD Module 1 collaboration, and help maintain WGEdu linkages to the broader education, training and capacity building community.
17-13	WGEdu as a permanent Working Group will review its Terms of Reference (specifically noting any new emphases for the Working Group) and propose necessary revisions to them at the 18th CEOS Plenary.

13. Report on SIT Meetings and IGOS Partners Meeting

CEOS SIT Chair Tillmann Mohr made a presentation on the outcome of the two SIT meetings held in February and October. He noted that following his two year commitment as the CEOS SIT Chair, Yoji Furuhashi will become the new SIT Chair and Jose Achache the CEOS SIT Vice-Chair.

On behalf of the Chair, Brent Smith made a presentation recounting highlights of the June 5 IGOS Partners Meeting. A discussion on relating the IGOS Themes to CEOS and its Working Groups followed. The following action resulted from the discussion:

Action Item	Brief Description of 17th CEOS Plenary Actions
17-16	CEOS Agencies and Working Groups to continue focusing on appropriate linkages to implementation of IGOS Themes, with JAXA and WMO to prepare a document that summarizes the observation requirements of IGOS Themes. WCRP and GCOS will also be approached in this process. This document should be provided in draft by mid-January to CEOS Agencies in preparation for the CEOS SIT Meeting on February 3, 2004.