

Overview of Workshop #1

Geneva

October 2nd - 4th, 2007

- During the workshop we had four sessions on:
 - Cal/Val site characterisation and classification
 - Satellite and *in situ* Cal/Val data access
 - Methodology and guidelines for Cal/Val
 - Harmonisation of Quality Information
- We need to apply these discussions at the level of each sub-group:
 - Because the procedures are specific
- The guidelines shall be generic (i.e. one unique set of guidelines) but “decline” into the specificity of each instrument sub-group

- Workshop discussions reached a consensus on the need for:
 - The establishment of Cal/Val best practices. What is required are CEOS endorsed guidelines (best practices), set under the auspices of GEO, for implementation by the agencies. These guidelines will allow data to have an ascribed ‘quality’ associated with it and will include all aspects of the data processing chain from acquisition to delivery & archiving.
 - A Cal/Val specific data policy and the allocation of the necessary resources through coordinated efforts of GEOSS members to implement the CEOS-endorsed guidelines & ensure the continued end-to-end operation and maintenance of the Cal/Val system.

- Drafting of the ‘Quality Control / Assurance and Best practice Guidelines on Calibration & Validation Processes’ has begun.
- A second workshop will be held in Maryland, USA, hosted by NIST, May 6th to 8th, 2008. This workshop will tackle issues relating to the definition of the best practice guidelines and a first version of the document should be an outcome of this workshop.
- Discussions on how to ‘endorse’ the best practices are ongoing and will be a session topic just after the action review.

- The WGCV recommends that CEOS members support the establishment of a QA framework based on the identification and adoption of Cal/Val best practices that are necessary to allow data to have an ascribed ‘quality’ associated with it. These best practices should include all aspects of the data processing chain from acquisition to delivery and archiving and be based upon the demonstration of traceability to internationally-agreed reference standards. The established Cal/Val best practices should become published guidelines, endorsed by CEOS under the auspices of GEO and implemented by agencies to meet the needs of GEOSS.
- The WGCV recommends that it should define a set of global Cal/Val reference (test) sites to be classified and endorsed by CEOS. These should span a variety of conditions in support of the characterisation needs of satellite sensors. The WGCV further recommends that all missions of member agencies should view a prioritised set of core sites as an integral part of the space segment and provide unencumbered access to the results to all CEOS members.

- The WGCV recommends that CEOS members endorse the establishment of the Cal/Val portal and encourage its further development and use as the single ‘point of entry’ for all associated EO Cal/Val information. To facilitate this, the WGCV recommends that each agency establish a named individual to act as a local point of contact.

In view of its importance to CEOS and GEOSS, as a key tool towards the harmonisation of data quality, the WGCV also encourages ESA to provide the necessary resources for its continued maintenance and development.

- The WGCV recommends the establishment of a data policy (code of use) for the use of Cal/Val data. This should be consistent with the GEOSS data sharing principles and guidelines.

- There is a total of 21 actions
- There are two types of actions
 - The one for which the owner is an individual or an Agency (16)
 - The one given to the sub-group leaders to be discussed during sub-group meetings (5)

We keep the later ones, that should be addressed by each sub-group chair for later

| | | Responsibility | Due date |
|---|---|------------------------|-----------------|
| 1 | Categories for the test site catalogue to be transformed into “equipped and maintained” and “non-equipped and non-maintained” rather than use “absolute cal”, “pseudo-invariant cal” and “cross-cal”. | Chander, IVOS Subgroup | 01 Nov 07 |

The workshop seed documentation altered to reflect the new categories. Online catalogue of world wide test sites updated.

Closed

| | | Responsibility | Due date |
|---|---|----------------|-----------|
| 2 | Provide the current IVOS cal/val site list & baseline characteristics list as an example to the other subgroups | Chander | 15 Oct 07 |

Sites-Template_v3.doc sent to all subgroup chairs

Closed

| | | Responsibility | Due date |
|---|--|----------------|----------|
| 3 | Review & establish test site template to define (best practices) requirements for test site identification within the subgroup domain. | WGCV Subgroups | WGCV-28 |

To be addressed by Subgroup chairs.

Open

| | | Responsibility | Due date |
|---|--|-------------------|------------------|
| 4 | Define criteria for test site classification for suitability for a particular application. | WGCV Subgroups | Next workshop |

To be addressed by Subgroup chairs.

Open

| | | Responsibility | Due date |
|---|--|---------------------------------------|-----------|
| 5 | Formulate a request to the Constellation leads to evaluate their requirements for cal/val needs. | Bojkov, Stensaas, Campbell, Cao | 01 Nov 07 |

Stensaas...

| | | Responsibility | Due date |
|---|---|----------------|-----------|
| 6 | Investigate Jim Butler's CEOS Information Server (http://spsosun.gsfc.nasa.gov/calval/index.html) and see if it contains any useful for the portal | ESA | 02 Nov 07 |

The test site catalogue is useful, although a bit out of date. Also the instruments section seems to provide some useful information. However, the search interface is quite rough. The relevant information contained within the site will be included within the Cal/Val portal.

Closed

| | | Responsibility | Due date |
|---|--|----------------|----------|
| 7 | Establish & define key cal/val terminology as an input into a WGCV dictionary. | WGCV Subgroups | WGCV-28 |

To be addressed by Subgroup chairs.

Open

| | | Responsibility | Due date |
|---|---|----------------|-----------|
| 8 | Draft a recommendation regarding the need to maintain long-term archives of cal/val process data to support EO. | Fleig | 01 Nov 07 |

This is ongoing. Discussions with colleagues keep unearthing new considerations so it has taken longer than planned to draft this recommendation. It is hoped that a draft will be complete shortly, but definitely by the next workshop.

Open

| | | Responsibility | Due date |
|---|--|----------------|-----------|
| 9 | Draft guidelines for writing best practise | IVOS | 30 Nov 07 |

To be addressed by IVOS Subgroup chair.

Open

| | | Responsibility | Due date |
|----|--|----------------|----------|
| 10 | Formulate a draft list of key common best practises for cal/val. | WGCV Subgroups | WGCV-28 |

To be addressed by Subgroup chairs.

Open

| | | Responsibility | Due date |
|----|---|----------------|-----------|
| 11 | Establish a committee to explore options on how we are able to establish authority for the endorsement of best practices for cal/val. | WGCV Chair | 05 Oct 07 |

Cao...

| | | Responsibility | Due date |
|----|---|-----------------------|-----------------|
| 12 | Include a discussion at the joint WGCV / WGISS meeting in February 2008 on the idea of adopting a standard set of best practises and the means to esatblish an authority to endorse them, possibly with a CEOS, ISO or similar stamp. | WGCV Chair | WGCV-28 |

Cao...

| | | Responsibility | Due date |
|----|--|----------------|----------|
| 13 | Define wish list of requirements for functionality from the cal/val portal and feedback to the cal/val portal maintainers (ESA). | WGCV Subgroups | WGCV-28 |

To be addressed by Subgroup chairs.

Open

| | | Responsibility | Due date |
|----|--|----------------|-----------|
| 14 | Establish some mechanism to feedback portal development information to the subgroups (user community). | ESA | 01 Nov 07 |

Newsletter has been published and will be placed on the Cal/Val portal.

Action WGCV to define a distribution list (WGCV membership, Workshop attendees, potential users...?).

Closed

| | | Responsibility | Due date |
|----|---|----------------|-----------|
| 15 | Make the cal/val portal front end a more CEOS / GEO one and change the website URL. | ESA / NASA | 10 Oct 07 |

This has been completed and the new URL is
calvalportal.ceos.org

Closed

| | | Responsibility | Due date |
|----|--|---------------------|-------------|
| 16 | Draft a WGCV data policy (code of use) for cal/val data that will be consistent with the GEO data sharing & principles guidelines. | Stensaas, Bojkov | WGCV- 28 |

Bojkov...

Open

| | | Responsibility | Due date |
|----|---|----------------|----------------------|
| 17 | Present cal/val portal prototype to CEOS and GEO plenaries [but restrict open access until data policy (Action 15) has been agreed upon]. | WGCV Chair | CEOS & GEO plenaries |

Cao...

| | | Responsibility | Due date |
|----|--|-----------------|-----------|
| 18 | Review terms and definitions list used for the workshop. | Workshop Chairs | 10 Oct 07 |

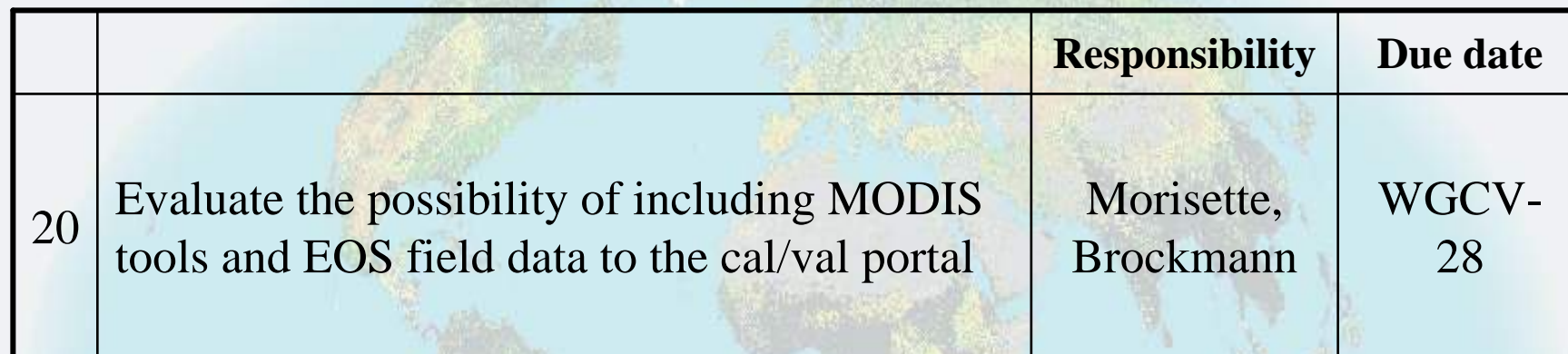
This is ongoing and will become seed documentation for the next workshop

Open

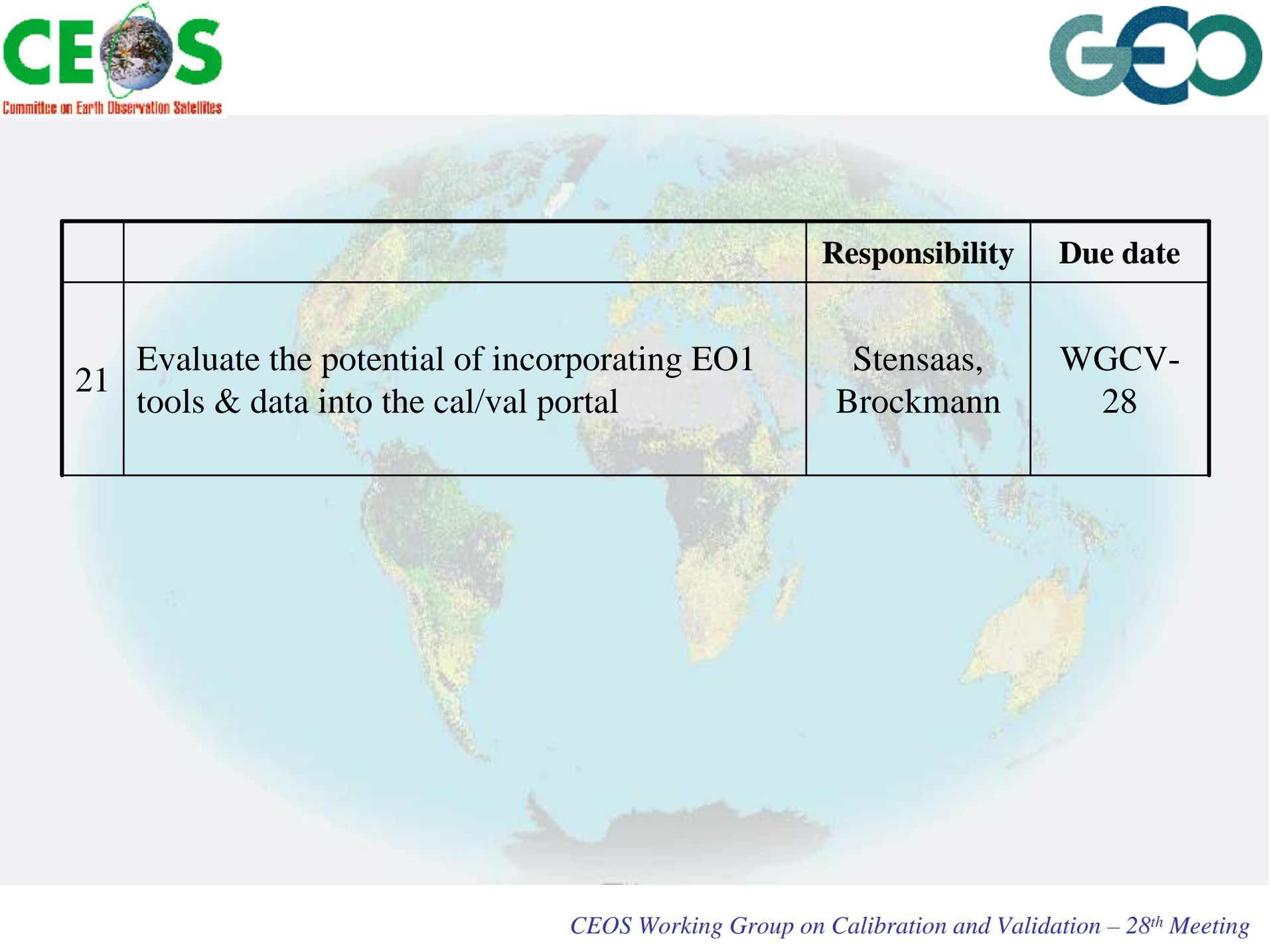
| | | Responsibility | Due date |
|----|--|----------------|-----------|
| 19 | Distribute GEOSS data sharing principles & guidelines document | Rast | 05 Oct 07 |

Not available for widespread distribution.

Open

A faint, light blue world map serves as the background for the table. The map shows the continents of North America, South America, Europe, Africa, and Australia, with a light blue ocean.

| | | Responsibility | Due date |
|----|--|-------------------------|-----------------|
| 20 | Evaluate the possibility of including MODIS tools and EOS field data to the cal/val portal | Morisette, Brockmann | WGCV- 28 |



| | | Responsibility | Due date |
|----|--|------------------------|-----------------|
| 21 | Evaluate the potential of incorporating EO1 tools & data into the cal/val portal | Stensaas, Brockmann | WGCV- 28 |