CEOS WG on Climate - 1st meeting
Frascati, Italy, 26-27 May 2011

Short CNES contribution

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CNES Climate change working group

- End 2008, CNES implemented an internal Climate change WG, with the following objectives:
  - to analyze the CNES contribution to the studies on climate change,
  - to position this contribution in the international context,
  - to make recommendations in order to enhance the efficiency and the visibility of this contribution.

- The CNES WG Report has been reviewed and well-received by CNES scientific advisory groups. It has been recently endorsed by the CNES high-level management.

- Here we just present the main recommendations of this WG. A more detailed English version of the report will be made public within a few months.

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Recommendations on space segments

1. For a R&D agency such as CNES, it is very difficult to reconcile the need for <u>continuity</u> of space measurements for the study of climate change and the mandate to develop <u>innovative</u> missions. The main recommendations of the WG are:
- to enlarge the concept of « innovation » and to look for innovation beyond satellite technology (innovation in programmatics, physics of the measurement, calibration, mission lifetime…),
- not to exclude climate « phase 2 missions » from CNES selection process, that is to say first missions of a recurrent series such as IASI/Metop, Jason-1, Sentinel-2a…

2. For CNES climate-oriented missions, to take into account <u>GCOS climate monitoring principles</u> in the mission requirements documents and to make the CNES technical project teams aware of them.

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Recommendations on ground segments

3. To insure the <u>long-term preservation</u> of CNES climate-oriented data and to acquire the corresponding <u>reprocessing facilities</u> (in coordination with similar national and European initiatives).

4. To continue and to promote the involvement of CNES in <u>international intercalibration programmes</u> such as GSICS and CEOS WGCV.

Recommendations on data

**5. To start a study, involving CNES scientific advisory groups, on the scientific and programmatic added-value of the <u>reprocessing of CNES climate data</u> (long series) in order to derive climate quality FCDR and ECV.
(This study must take into account already existing European and world programmes such as ESA CCI, SCOPE-CM…)**

6. To define, with CEOS (in particular its Climate WG) and with CNES scientific advisory groups, the participation of CNES in <u>a few interagency climate reprocessing activities</u> in which the French expertise and data would be a relevant and significant contribution.

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Examples of CNES data available for FCDR/ECV