



*CEOP / IGWCO Joint Meeting
Paris 26 February – 4 March 2006*



Link between CEOP and ABC The new Pyramid Site

Ev-K2-CNR contribution to improve the CEOP II reference sites

Gianni Tartari

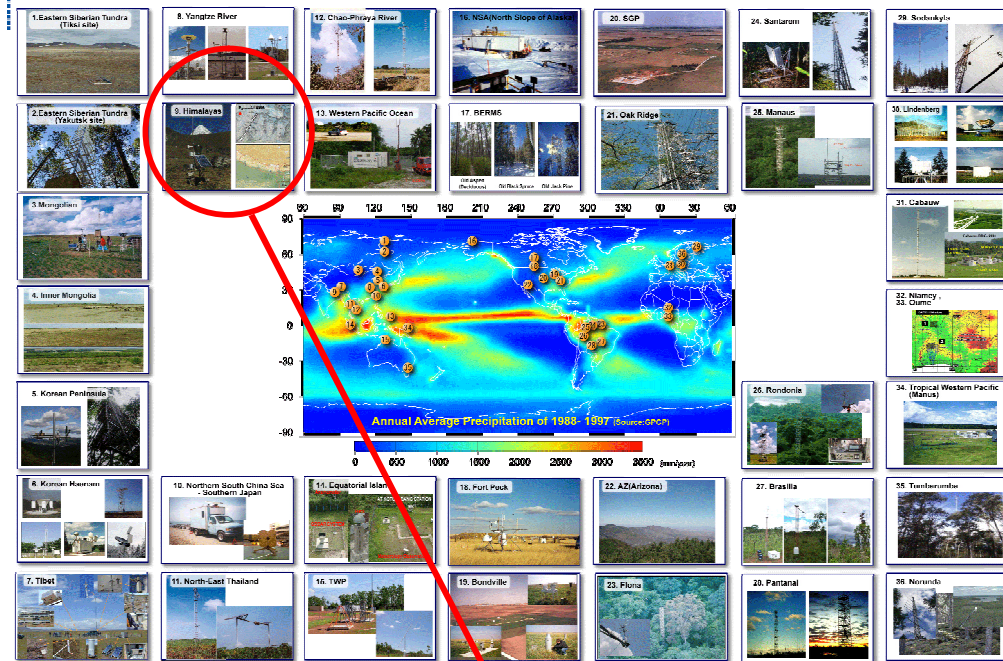
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Stations at High Altitude for
SHAREASIA
Research on the Environment



International Cooperation for the Global Coverage



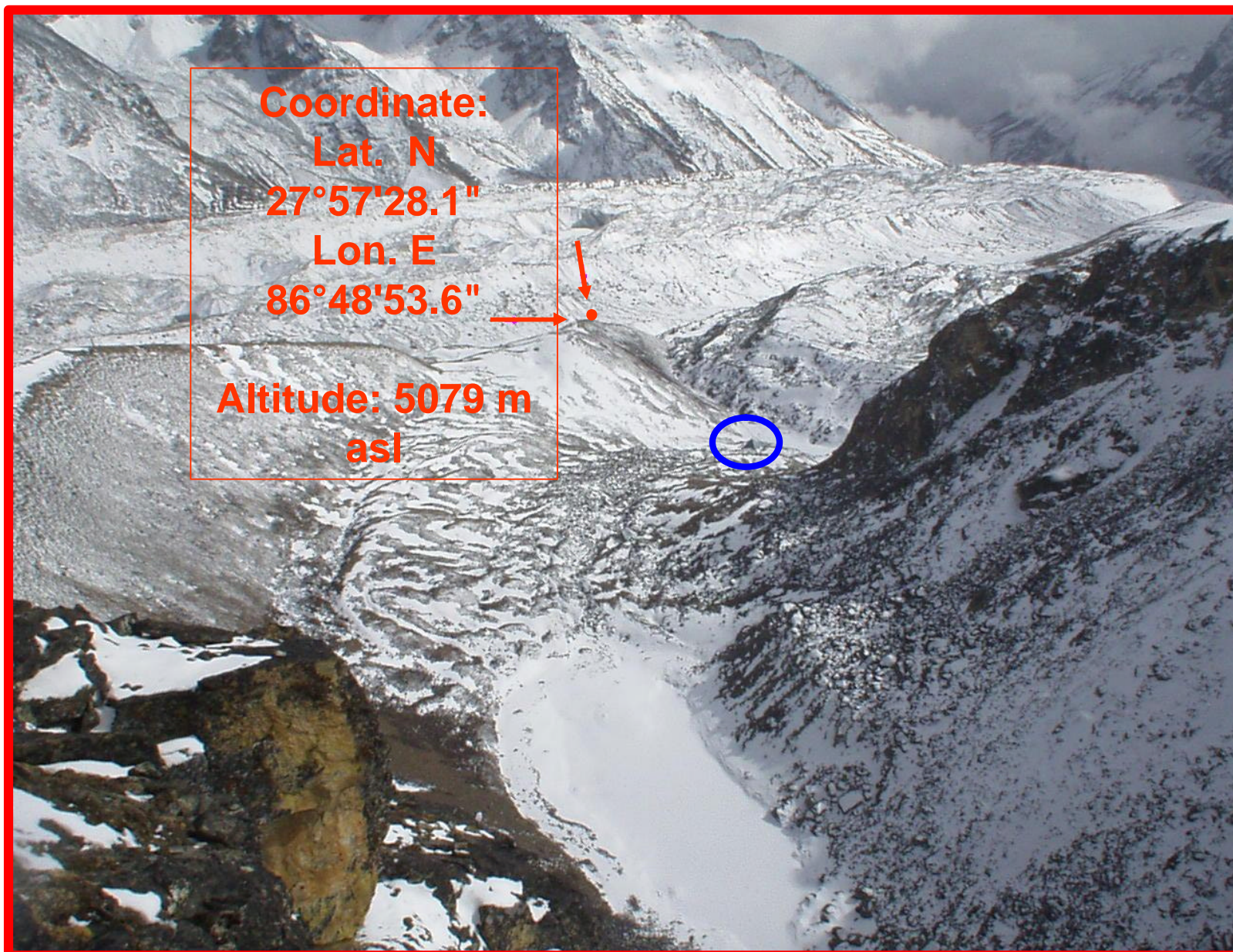
<p>INTERNATIONAL PROJECTS <i>(RESEARCH & MONITORING)</i></p>
<p>WORLD METEOROLOGICAL ORGANIZATION (WMO)</p> <p>CEOP COORDINATED ENTRANCED OBSERVING PERIOD and</p> <p>GAW - Global Atmospheric Watch WDCGG - World Data Centre for Greenhouse Gases</p>
<p>UNITED NATIONS ENVIRONMENTAL PROGRAM (UNEP)</p> <p>ABC ATMOSPHERIC BROWN CLOUDS</p>
<p>GLIMS GLOBAL LAND ICE MEASUREMENT FROM SPACE</p> <p>GSN GLOBAL SEISMOGRAPHIC NETWORK</p>
<p>IGS INTERNATIONAL GPS SERVICE FOR GEODINAMICS</p>
<p>LTER LONG TERM ECOLOGICAL RESEARCH</p>

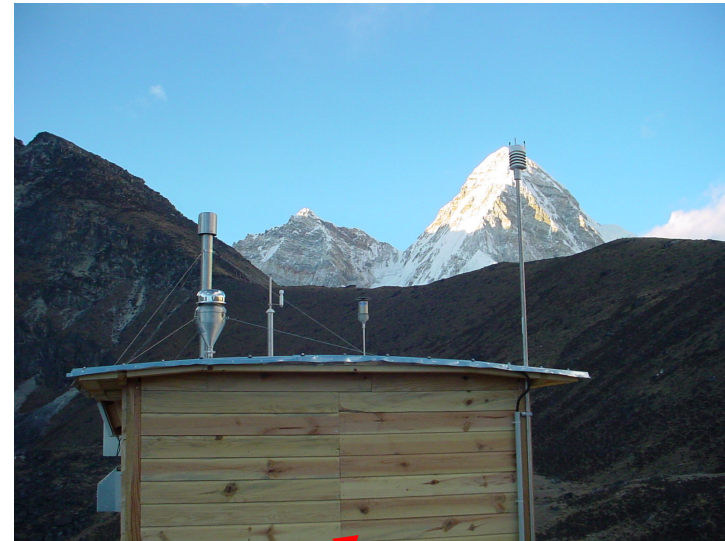


Phase 1:
2002-2004

Phase 2:
2007-2010









ABC-Pyramid Complementary Site

Scientific responsible: Dr Paolo Bonasoni, ISAC-CNR, Bologna, Italy

Black Carbon - Aerosol light absorption properties	MAAP
Aerosol optical proprieties and integral scattering coefficient	NEPH
Aerosol physical proprieties (Size distribution 15-500 nm)	DP
Aerosol physical proprieties (Size distribution >300 nm)	DP
Aerosol chemie (Inorganic)	
Aerosol chemie (Organic)	CIMEL
UV radiation	UV-an.
CO ₂ & GHG	Flasks
Meteorology	Vaisala

Ev-K2-CNR contribution to improve the CEOP II reference sites





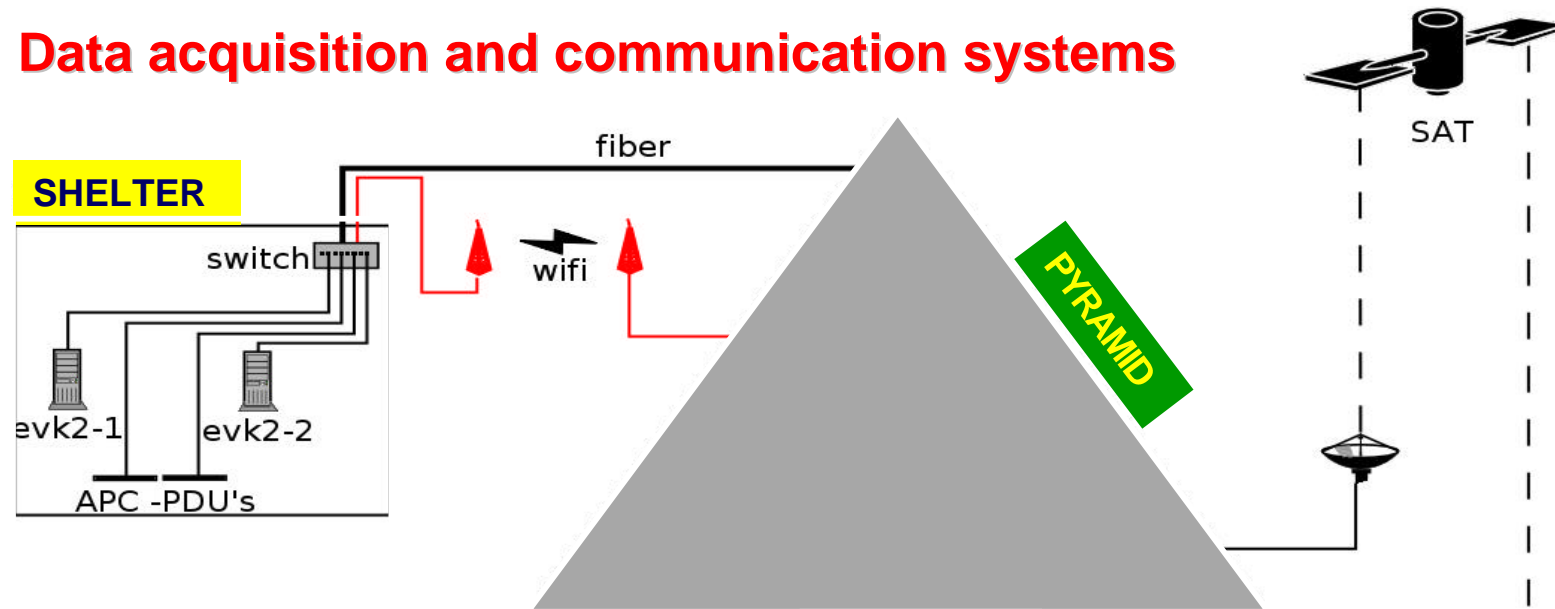
The **ABC-Pyramid** Complementary Site



The **ABC-Pyramid** Complementary Site



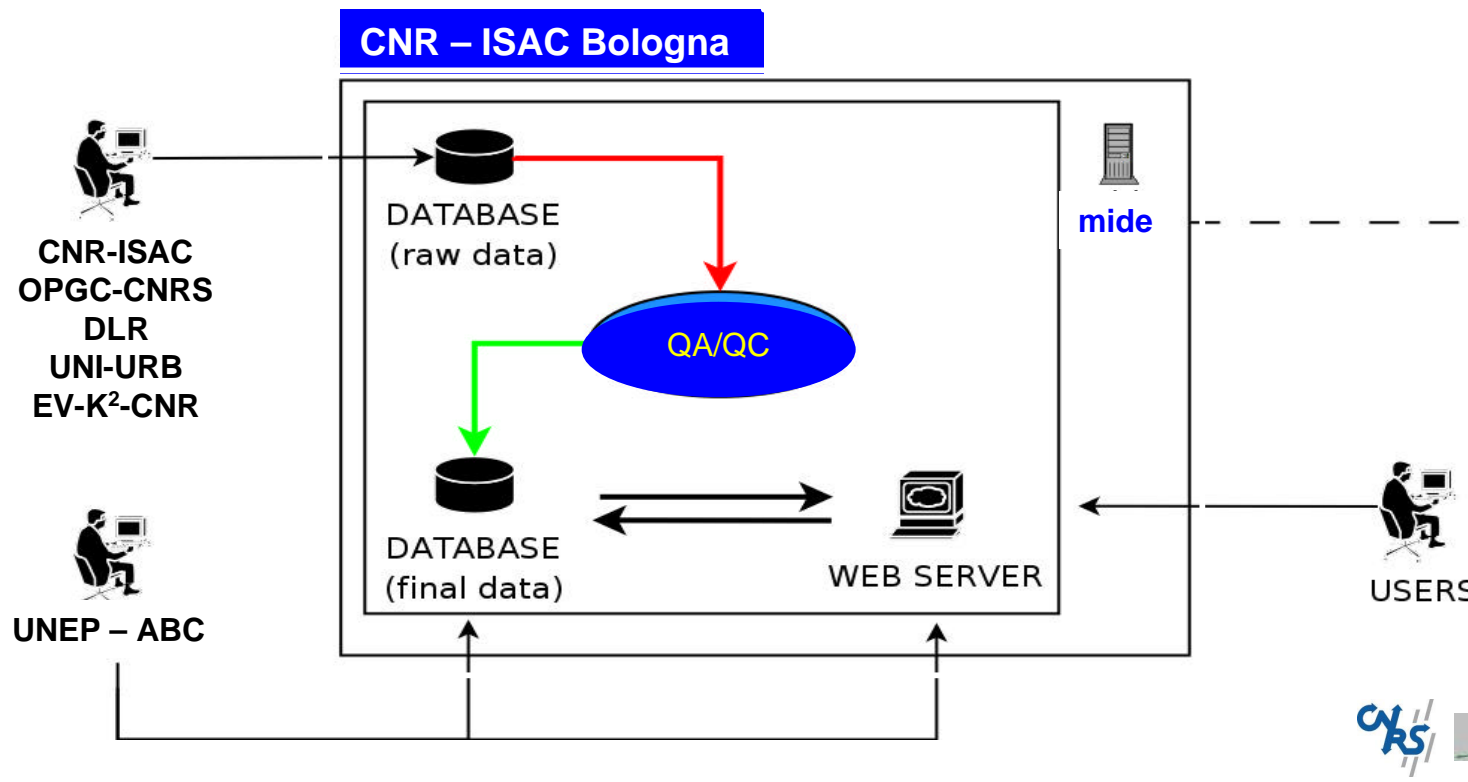
Data acquisition and communication systems



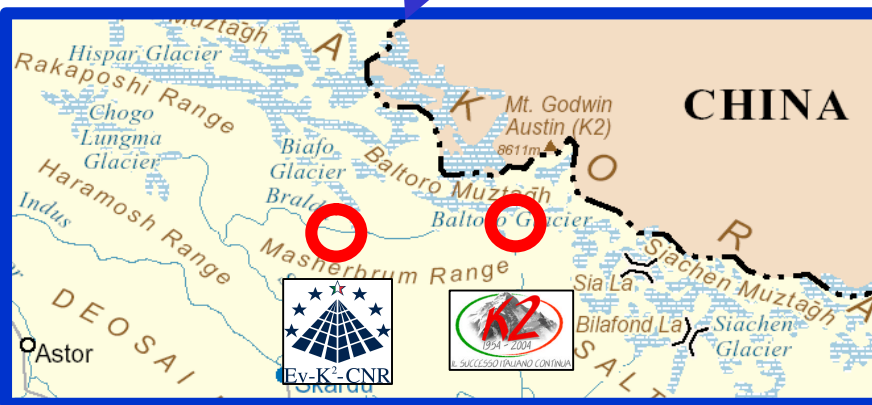
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The data are sent to the CNR Institutes where they can be accessed by different Institutions that provide QA/QC.

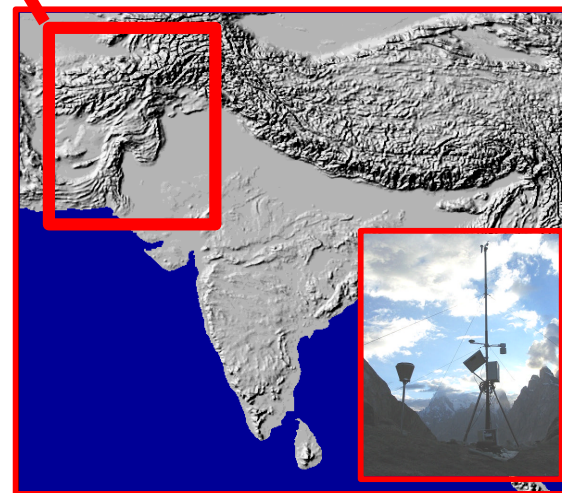
The remote control of the instruments will be possible from CNR and CNRS Institutes.



**AWSs in Baltistan Region,
 Pakistan**

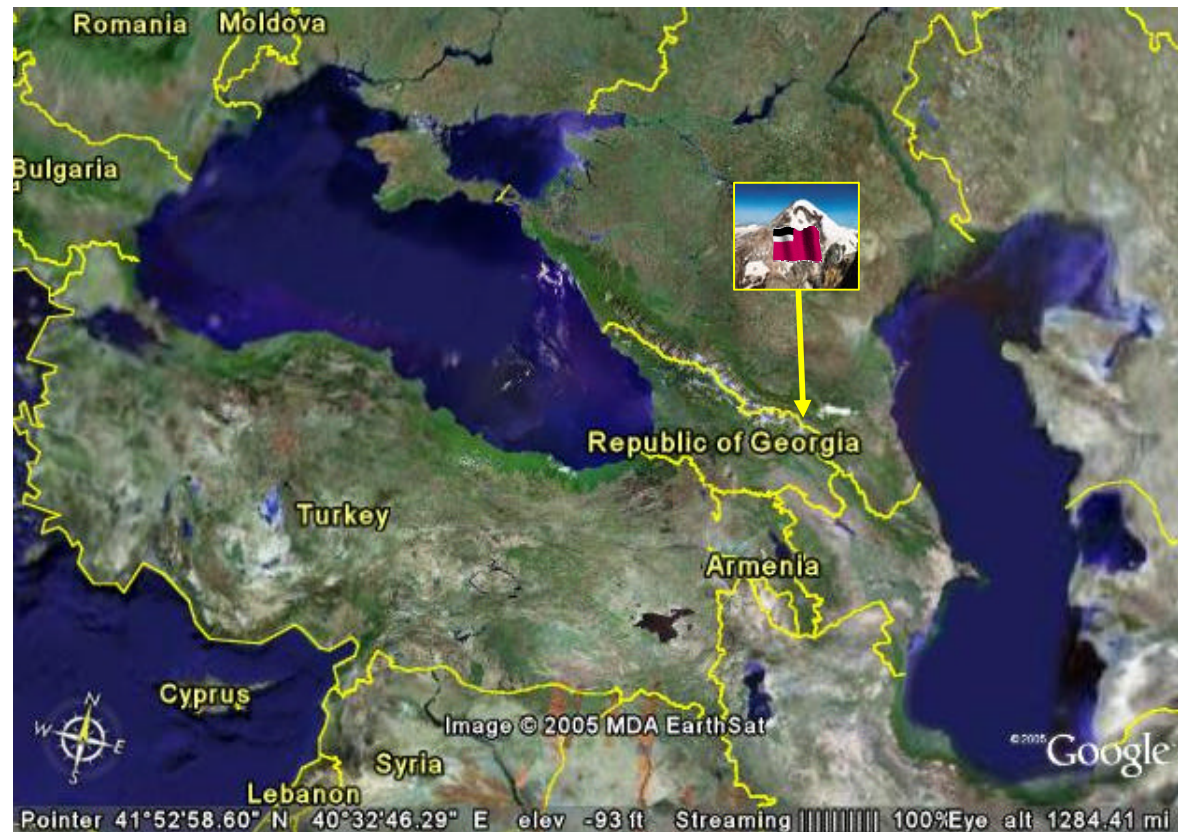


- **Urdukas (4000 m)**
 (Baltoro Glacier), *June 2004*
- **Askole (3000 m)**
September 2005



Other contributions to CEOP Phase II

New AWS (September 2006?) in Caucasus Region, Georgia



Mount Cakzbeck

Betlemi

(3670 m)

Credits for this presentation



(Comitato Ev-K²-CNR)

E. Villermoz, G.P. Verza, A. Cortinovis, M. Comi, B. Shommer,
A. Da Polenza



(CNR-ISAC)

P. Bonasoni, U. Bonafè, F. Calzolari, P. Cristofanelli, A. Marinoni,
F. Roccato, MC. Facchini, S. Fuzzi, G.P. Gobbi, F. Barnaba,
F. Angelini, D. Anfossi, P. Malguzzi, S. Trini Castelli



(CNRS)

P. Laj, JM. Pichon, H. Venzac, K. Sellegri, P. Villani



(Urbino University)

M. Maione, J. Arduini



(DLR)

A. Petzold



(ARIANET)

G. Calori



(CEM)

L. Bertolani, R. Salerno