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della Ricerca
2011-2013



Work package 1.2

Osservatori climatici afferenti al programma GAW-WMO

Angela Marinoni (ISAC-CNR)

Unità operative: URT Ev-K2-CNR, ISAC-CNR, IRSA-CNR



CNR "O. Vittori" Station



Nepal Climate Observatory - Pyramid



Roma, CNR-DTA, 12 novembre 2011



WP1.2- Il anno

- ❑ Prosecuzione delle attività osservative e di analisi presso la stazione di Monte Cimone. Implementazione programmi di misura, validazione dati e loro condivisione in ambito internazionale (database di riferimento, portale generale, partecipazione a meeting, workshop...)
- ❑ Supporto all'esecuzione delle attività osservative presso il Nepal Climate Observatory – Pyramid. Analisi e validazione dati e loro condivisione in ambito internazionale (database di riferimento, portale generale, partecipazione a meeting, workshop...)
- ❑ Inizio delle attività di collaborazione con le stazioni di alta quota di Plateau Rosa (GAW-WMO) e di Campo Imperatore (SHARE) per l'upgrade strumentale e per la condivisione dei dati.

Roma, CNR-DTA, 12 novembre 2011



SP1 – WP 1.2 (URT Ev-K2-CNR, ISAC)

Monte Cimone

Nuovi programmi di misura:

APS

LiDAR

Nefelometro 3λ

NOx SO2

AOD (PFR)

Upgrade di programmi di misura:

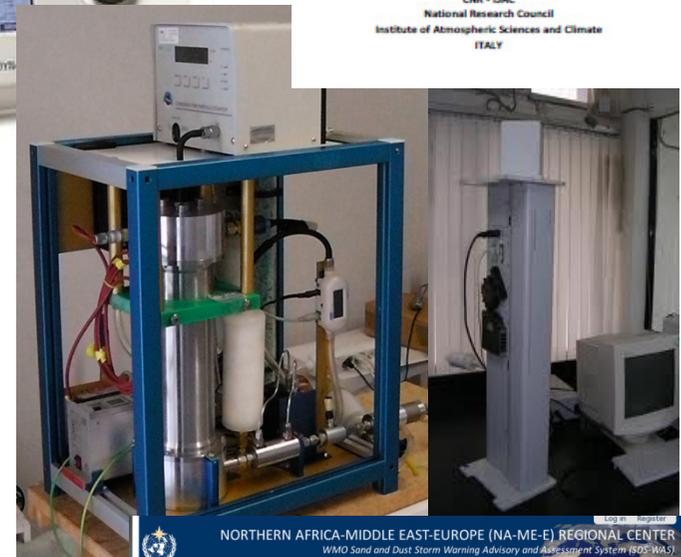
DMPS

Rif GAW-NOAA per CO-CH4-SF6-N2O (MoU NOAA)

Condivisione dati:

Sottomessi ai data-base ACTRIS, GAW WDCA e WDCGG i dati dell'anno 2012

Condivisione Near Real Time dei dati di massa dell'aerosol con Sand and Storm Warning Advisory and Assesment System (MoU SBC) e di CO con MACC-2.



Roma, CNR-DTA, 12 Novembre 2012



SP1 – WP 1.2 (ISAC, IRSA, URT Ev-K2-CNR)

Nepal Climate Observatoty - Pyramid

Campagna di calibrazione maggio 2013:

Controllo qualità:

Meteo, Radiazione, Ozono, black carbon, Size distribution, massa aerosol, scattering

Nuovi programmi di misura:

Campionamento piogge (2012-2013)

Valutazione start misure SO₂ (2014)

Upgrade di programmi di misura:

Completo rifacimento del sistema SMPS

Condivisione dati:

In fase di sottomissione ai data-base GAW WDCA e WDCGG, ABC-DISC i dati dell'anno 2012 (entro 31/12/2013)



Roma, CNR-DTA, 12 novembre 2011



SP1 – WP 1.2 (ISAC, IRSA, URT Ev-K2-CNR)

Plateau Rosa e Campo Imperatore

Upgrade di programmi di misura:

Campo Imperatore: sostituzione analizzatore di ozono 2B con un analizzatore Thermo 49i

Condivisione dati:

Plateau Rosa

Sottomissione al portale generale ND dei dati O₃ – CO₂ – CH₄

Condivisione in NRT nell'ambito di MACC-2



Roma, CNR-DTA, 12 novembre 2011



NextData, Roma, CNR-DTA, 12 novembre 2013



SP1 – WP 1.2 (ISAC, IRSA, URT Ev-K2-CNR)

Prodotti scientifici

Monte Cimone GAW Global Station:

1 articolo ISI pubblicato, 1 in fase di review, 2 in preration

Nepal Climate Observatory - Pyramid GAW Global Station:

2 articoli ISI pubblicati, 2 sottomessi



World Meteorological Organization
Member of United Nations



NORTHERN AFRICA-MIDDLE EAST-EUROPE (NA-ME-E) REGIONAL CENTER

WMO Sand and Dust Storm Warning Advisory and Assessment System (SDS-WAS)

WMO SDS WAS || Asia Regional Center

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In-situ measurements

by Francesco Benincasa — last modified May 17, 2012 02:33 PM



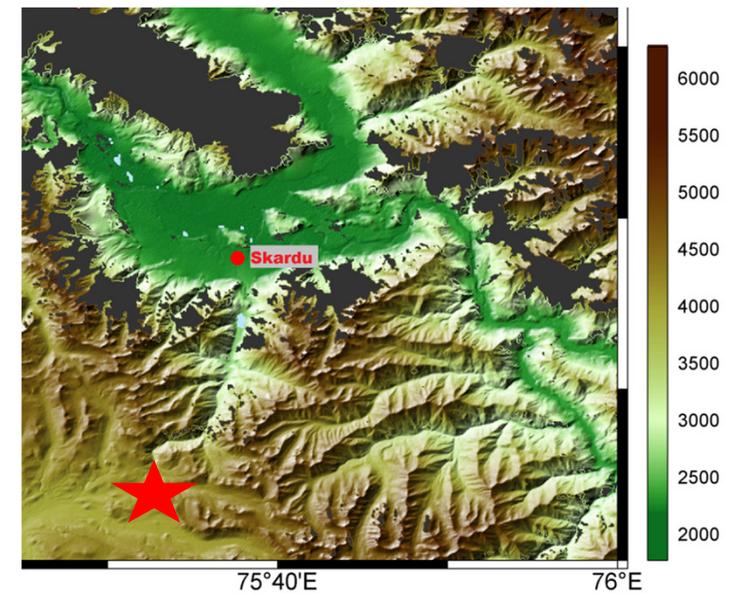
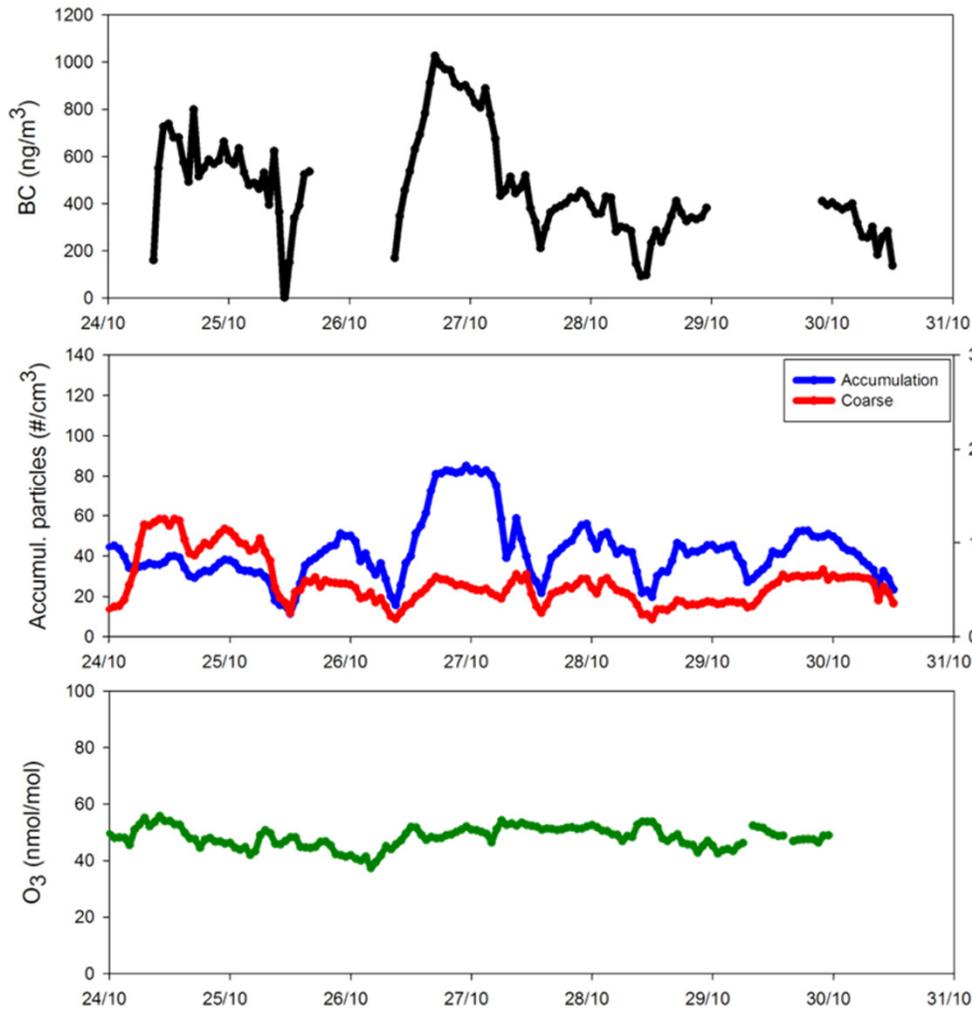
The air quality standards, such as the European Union 2008/50/EC Directive, set maximum atmospheric concentrations for specific pollutants. In particular, the EU 24-hour-mean limit value for particles with aerodynamical diameter less than 10 μm (PM10) is 50 $\mu\text{g}/\text{m}^3$, with 35 permitted exceedences each year, and the annual-mean limit value is 40 $\mu\text{g}/\text{m}^3$.



SP1 – WP 1.1 (ISAC, URT Ev-K2-CNR)

Pakistan Climate Observatory

Deosai National Park (4000 m asl)



NextData, Roma, CNR-DTA, 12 novembre 2011





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NEWS

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You are here: Home > Forecast & Products > Dust observations > In-situ measurements

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