### WORLD METEOROLOGICAL ORGANIZATION

ISSION FOR INSTRUMENTS AND

COMMISSION FOR INSTRUMENTS AND METHODS OF OBSERVATION

**OPAG-SURFACE** 

CIMO/OPAG-SURFACE/ /ET-SBII&CM-1/IOC-1/Doc. 5.1

Distr.: RESTRICTED

(30.X.2003)

JOINT CIMO EXPERT TEAM ON SURFACE-BASED INSTRUMENT INTERCOMPARISONS AND CALIBRATION METHODS

First Session

ITEM: 5.1

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Original: ENGLISH ONLY

AND

INTERNATIONAL ORGANIZING COMMITTEE (IOC) ON SURFACE-BASED INSTRUMENTS INTERCOMPARISONS

First Session

Trappes, France, 24-28 November 2003

An invitation from the Italian Meteorological Service (IMS) to host the WMO Field Intercomparisons of Rainfall Intensity (RI) Gauges

(Submitted by Mr L. Lanza, University of Genoa)

Summary and purpose of document

This document provides background of the IMS invitation to host the Field Intercomparisons of Rainfall Intensity Gauges.

### **Action proposed**

The meeting is invited to take into account information presented in this document when discussing a place for the Field Intercomparisons of Rainfall Intensity Gauges.

## An invitation from the Italian Meteorological Service (IMS) to host the WMO Field Intercomparisons of Rainfall Intensity (RI) Gauges

- 1. Gen. Roberto Sorani, the Permanent Representative of Italy with for WMO in his letter, reference No. RGPM-RP-43/6755/G8-1/OMM-CIMO/ET, dated 20 October 2003, informed the WMO Secretary-General Italian Meteorological Service (IMS), being aware of the importance of a "Precipitation Measurement Intercomparison", is considering the possibility to host Field Intercomparison of Rainfall Intensity Gauges at its test site of Experimental Department of Meteorology in Vignia di Valle (Rome).
- 2. Brief information on the Experimental Department of Meteorology is in Annex.

#### CIMO/OPAG-SURFACE//ET-SBII&CM-1/IOC-1/Doc. 5.1, ANNEX



# OF METEOROLOGY

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RaSMA is contituted by an Headquarter, a meteorological station and six instrumental equipped emplacements with power supply, lighting, data transfer connection and real time control. The Experimental Department of the Italian MetService in Vigna di Valle is responsible for the test of instrumenta in the field of meteorological coservation.



The ozone control in Vigita di Valle is one of the main activities regularding special meteopological observations and measurements. There are two special instruments used to analyse the atmosphere to measure the ozone quantity. The oldest is the DOSSON 047 and the newest is the BREWER which takes UV measure too. The Experimental Department of Meteorology assures the quality of measurements and observations coming from the net of the Service, by instrumentation management and testing, develops the fit methodologies for the control, sampling and verification of new instrumentations introduced in national area and manages the mobile support for national territory demands and out area operations. The meteorological station works H24, produces CLIMAT, METAR and CREX messages and makes ozone measurement and meteorological sounding.



One of ReSMA new instruments is the S.O.D.A.R. MFAS which allows us to make wind shear and furticlerico research and to study the wind profits up to 1000 m with resolution of 10 m. it will be carried among UNW instrumentations.



A Earoclinate chamber

A teroclimatic chamber allows to lest and calibrate different instruments. A calibration banch is used to set the pyranometer.

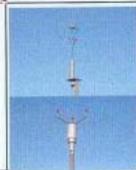


In one of the experimental empracements available in the ReSMA area there is a collector for dry and wet deposition. The collector for the wet deposition is opened automatically by using the signal of a precipitation detector For the analysis of precipitation carring from many sampling taken stations there is a modern chimical laboratory.





A Meteorological Moveble Unit (UMM) is available to provide a meteorological technical support in every area of the nation. It is entirely equiped with the best portable mateorological and technical devices and it has an appropriate telecomunication system to receive and provide every kind of meteorological information. The UMM has a portable apparatus to lanch sounding beloons and an own telecomunication system to receive and plot the atmosphere



Many instruments are tested and data comparison allows to know the performances of standard and experimental devices as is being for VAISALA WAS 425 and GILL Wind Master PRO