

CGMS-XXXI
PRC-WP-11
Prepared by CMA
Agenda Item: F.5

**THE INTERNATIONAL SYMPOSIUM ON SAND AND DUST STORM
12-14 September 2004, BEIJING**

Summary and purpose of paper

This paper informs CGMS delegations that the International Symposium on Sand and Dust Storm, sponsored and organized by WWRP/WMO and CMA is planned in September 12-14, 2004 Beijing.

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BACKGROUND:

Sand and dust storm can cause a wide range of effects in several regions of the world including the Middle East, North Africa, Mediterranean Europe, China-Mongolia, Australia, the United States, Mexico and portions of South America. These storms also constitute a serious regional health hazard, disrupt air and ground transportation, and are generally deleterious to business, commerce and the quality of life. Transport and distribution of dust also constitutes an important problem in climate dynamics studies. It follows that improved prediction and warnings of sand and dust storms is a high priority for the WWRP and many meteorological services worldwide.

At present the meteorology of sand and dust storms is still varied and incompletely understood. At mid-latitudes many storms are associated with the passage of fronts and cyclones in late winter and spring. At sub-tropical latitudes, deep easterly or southeasterly flow is often the prevailing condition. In either of these synoptic conditions or in conditions that are independent of these, winds having origin with organized convection can be a triggering or sustaining mechanism for regional scale events. In the lee of mountain gaps and regions of mountain wave-breaking, topographically induced dust storms may occur. All of these circumstances require soil surface and atmospheric boundary layer conditions favorable to the uptake and sustained transport of dust particulate material.

The time were right for WMO community to demonstrate improvements in the prediction of sand and dust storm, with emphasis on high impact events, through the exploitation of advances in scientific understanding, observational network, data assimilation and modeling. And it is also expected to establish a mechanism, in the frame of WWRP, to promote the coordinate among Member States. Hence, the WMO/WWRP 2002 Brazilian Meeting adopted a resolution that decided to convene the International Symposium on Sand and Dust Storm in Beijing, China. This symposium will be sponsored and organized by China Meteorological Administration.

TIME FRAME:

12-14 September 2004

SUGGESTED THEMES ARE:

The international Symposium on Sand and Dust Storm will present the latest scientific understanding of the nature of dust storm as follows:

- Dust sources and production mechanisms;
- Observing dust storm: in-situ and satellite passive & active remote measurements;
- Regional and global dust modeling;
- Mesoscale analysis of sand and dust storm;
- Climatology of sand and dust storms and their origination zones;
- The phenomenology of these storms and the associated regional scale conditions;
- Forecasting & early warning: the skill in forecasting (0 - 6 h) and NWP in the prediction

of such storms at the very-short and short ranges (6 - 48 h) ;

In addition, the Symposium will identify:

- The suspected impediments to improved prediction;
- The underlying scientific issues and research opportunities related thereto;
- Methods of approach to conduct internationally coordinated research for the purpose of improved prediction at the nowcasting through short-ranges.

WORKING LANGUAGE: English

CALL FOR PAPERS:

One page abstract with PDF or WORD format is welcome to submit for 20-minute oral presentation or for poster. Contingent upon their review by the scientific organizing committee, accepted abstracts will be published as part of an abstract volume that will be distributed to participants at the meeting. All abstracts MUST be submitted electronically to the conference secretariat, Mr. Lu Naimeng. Deadline for Electronic Abstract Submissions is **June 30, 2004**.

ABSTRACT POLICIES:

- Publication: Abstracts accepted for presentation will be posted on the conference website.
- Individuals interested in presenting papers should submit the abstract containing:
 - Title of the paper
 - Name(s), affiliation(s), address (es), telephone, fax and E-mail
- Co-author approval: Ensure that all co-authors approve of the abstract submission, publication and potential presentation.
- Abstract will be reviewed by the Organizing Committee. All presenting authors will be notified by July 2004.
- Changes to Abstract: If you must make a minor change to your submitted abstract, this may be done by August 10, 2004. Any corrections and/or changes will not be accepted after that date.

You will get an email or fax within five business days to confirm reception of your abstract. If you do not receive a confirmation, please contact the Conference Secretariat.

SCIENCE PROGRAMME COMMITTEE :

Members are to be finalized by recommendations of WWRP and CMA.

LOCAL ORGANIZING COMMITTEE:

Headed by *Guo Guang ZHENG*, Deputy Administrator of China Meteorological Administration.

REGISTRATION:

The US \$ 200 registration fee (\$150 for student) includes tea break refreshments, the reception, the banquet, a sightseeing tour and a copy of the conference abstract. The fee for an accompanier is US \$100 including the reception, and the sightseeing tour.

FINANCIAL SUPPORT:

Limited financial support is available for the remission of registration fees and the local accommodation of experts from the developing countries. Request for financial support, if any, should be addressed to the Conference Secretariat along with the Pre-Registration Form by July 15, 2004.

HOTEL RESERVATION:

There are several hotels in the vicinity of CMA. The rates differ in the range of US\$30 -\$120 or equivalent RMB Yuan. Detailed hotel information will be given to help participants with reservation.

WEB ADDRESS:

All the update information relating to the call for abstract, registration, accommodation, deadlines, program etc will be available on the website: <http://dear.cma.gov.cn/symposium/>

CONTACT THE SYMPOSIUM SECRETARIAT:

Mr. Naimeng Lu
National Satellite Meteorological Center, CMA
No.46, Zhongguancun Nandajie, Haidian District
Beijing 100081, China
Telephone: +86-10-68408757
Fax: +86-10-62172724
E-mail: nmlu@nsmc.cma.gov.cn