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World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
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Our ref.: 29149/2017/RES/ARE

15 August 2017

Annex: 1



Subject: Contributions to the Weather Modification online Survey and Trust Fund

- Action required:
- 1) To complete the attached survey on behalf of your country by **30 September 2017**
 - 2) To consider a contribution to the Weather Modification Trust Fund to support a review of the weather modification activities in precipitation enhancement, hail suppression and fog dispersal

Dear Sir/Madam,

The Executive Council at its sixty-ninth session which was held in Geneva from 10 to 17 May 2017, requested the Secretary-General and the Commission for Atmospheric Sciences (CAS) in collaboration with regional associations and technical commissions to conduct a survey among Members on their current scientific and operational involvement in weather modification activities in order to update the WMO weather modification database.

An online survey is launched through the following link:

<https://www.research.net/on.line.survey>

You are kindly requested to complete the survey on behalf of your country, including all current activities in the field of weather modification in your country. The results of the survey are essential for reviewing progress and achievements in this field of study.

Members who have no weather modification activities in their countries are not expected to take part in the survey.

Your inputs would be appreciated preferably not later than **30 September 2017**. If you have any questions regarding the survey, please contact Ms Estelle de Coning, (Scientific Officer of the WWR Division), edeconing@wmo.int.

The Executive Council also invited Members to make use of the "Guidance in the Development and Implementation of Operational Weather Modification Activities" (Abridged final report, Annex 1 to Decision 53 (EC-69)), attached as an annex to the letter.

Contributions to the Weather Modification Trust fund to support reviews of precipitation enhancement, hail suppression and/or fog dispersal activities would be

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO

cc: Hydrological Advisers to Permanent Representatives

appreciated. Please contact Dr Paolo Ruti, Chief World Weather Research Division, in this regard at pruti@wmo.int.

I wish to thank you for your continued cooperation.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'W. Zhang', with a stylized flourish extending from the end.

(W. Zhang)

for the Secretary-General

Ref: 31932/2017-10 LCP

Annex 1 to Decision 53 (EC-69)**GUIDANCE IN THE DEVELOPMENT AND IMPLEMENTATION OF OPERATIONAL WEATHER MODIFICATION ACTIVITIES****1. Guidance**

This Guidance is addressed to WMO Members requesting advice or assistance in the development and implementation of operational weather modification activities.

1.1 Weather modification should progress through the following three types of activities:

- (a) Continuing strategic research is required to investigate and test the scientific hypotheses on which the weather modification is based. This research is inherently focused on important atmospheric processes, and therefore it is relevant not only to weather modification, but also to the improvement of weather and climate prediction that supports a wide range of applications such as water management and climate change adaptation;
- (b) With sound scientific understanding of the relevant atmospheric processes, a weather modification experiment can be designed and implemented in order to demonstrate the scientific and economic feasibility of the activity and the validity of the underpinning scientific hypothesis;
- (c) Having completed a successful and validated experiment (e.g. as judged through the scientific peer-review process), and having conducted appropriate consultations with national and regional stakeholders and authorities who may be affected by the activity, it can be considered to undertake operational weather modification, in which the focus is on practical outcomes and environmental safeguards, while maintaining practices that allow continuing scientific evaluation of the results of the operations.

1.2 However, Members wishing to develop such operational activities in the field of weather modification should take into account the considerable uncertainties involved and the challenges related to the validation of the results of such activities. Members are advised not to perform operational weather modification activities without considering the above, particularly when these activities promote only commercial interests without scientific credibility.

1.3 It is recommended that measurements collected in all-weather modification activities should have a data management plan that ensures that the data are available for future analyses and that members should share their experiences in weather modification in order to avoid duplication.
