

*International Civil Aviation Organization*

## INFORMATION PAPER (IP/11)



ICAO

ICAO Asia and Pacific (APAC)  
Twenty-Ninth Meeting of the Meteorology Sub-Group  
(MET SG/29)

Bangkok, Thailand, 18 - 22 August 2025

**Agenda Item 6: Research, development and other initiatives****HAZARDOUS WEATHER INFORMATION SERVICE (HWIS) TRIAL  
ORGANIZED BY CHINA**

(Presented by China)

**SUMMARY**

China plans to organize the HWIS (Hazardous Weather Information Service) trial in the Asia-Pacific region. The trials primarily address turbulence, icing, and cumulonimbus clouds (CB). Given the varying hazardous weather characteristics across different latitudes, the trial will be divided into the northern trial and the southern trial. China invites all interested States and territories in the Asia-Pacific to participate in these trials.

**1. INTRODUCTION**

1.1 The ICAO Meteorology Panel Working Group on Meteorological Requirements and Development (WG-MRAD) is developing the requirements and provisions for a new information service - Hazardous Weather Information Service (HWIS) Trial - which will give airspace users consistent weather information concerning en-route hazardous weather. To verify and validate the concepts developed for HWIS, and to inform the development of HWIS related SARPs, a comprehensive trial period has been proposed for implementation globally, and will be supported by the HWIS Trial group under WG-MRAD.

1.2 China will actively participate in the Asia-Pacific regional trial, and we invite interested Meteorological Watch Offices (MWOs) to participate.

**2. DISCUSSION**

2.1 China plans to conduct the first round of HWIS Trial in the Asia-Pacific region starting in 2025. The key weather phenomena under study include three key aviation hazards, namely, cumulonimbus clouds (CB), turbulence, and icing. Additional focus areas include:

- Data sharing and distribution mechanisms
- A collaborative information-sharing platform
- User data exchange via SWIM (System Wide Information Management)
- Standardized data formats
- Forecast product validation

2.2 Given the distinct hazardous weather patterns across latitudes, the trial will be divided into two trials. The northern trial focuses on CB, turbulence and icing, while the southern trial

concentrates specifically on CB. The northern trial will be led by the Aviation Meteorological Center (AMC) of Air Traffic Management Bureau (ATMB), Civil Aviation Administration of China (CAAC) and the southern trial will be led by the Hong Kong Observatory (HKO). The products from the two trials are expected to be integrated in the final stage.

2.3               The northern trial, led by AMC with focus on CB, turbulence and icing, invites interested MWOs to participate.

2.4               The southern trial, led by HKO with focus on CB, invites interested MWOs to participate.

2.5               China has established the Asian Hazardous Weather Coordination Platform, providing real-time satellite, radar, and numerical weather prediction (NWP) data. The platform supports collaborative functions, including real-time messaging and weather coordination. China has been conducting regular SIGMET coordination between domestic and neighboring MWOs on this Platform. All interested parties are encouraged to utilize the platform and actively participate in the HWIS Trials.

2.6               MWOs are welcome to contact AMC of CAAC or HKO if interested in participating in the HWIS trials being organized by China.

### **3.       ACTION BY THE MEETING**

3.1               The meeting is invited to note the information contained in this paper.

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