



FOURTEENTH AIR NAVIGATION CONFERENCE

Montréal, Canada, 26 August to 6 September 2024

Agenda Item 3: Air Navigation System Performance Improvement

3.1: Proposals to improve the efficiency of air navigation services contributing to LTAG

CONTRIBUTION BY CHINA TO THE IMPROVEMENT OF INTERNATIONAL AERONAUTICAL METEOROLOGICAL SERVICE CAPABILITIES

(Presented by China)

EXECUTIVE SUMMARY

This paper presents the efforts and the contribution by China to improve the international aeronautical meteorological service capabilities (especially ones of less developed countries) in recent years, including technical exchange and training and provision of equipment.

1. INTRODUCTION

1.1 The qualifications and competencies of aeronautical meteorological personnel (AMP) and their continuous enhancement have a significant impact on the future pace of progress in air transport modernization and/or the quality of products of the aeronautical meteorology community, and on the safety and efficiency of aviation operations.

1.2 Under the Voluntary Cooperation Programme (VCP) and Education and Training Programme (ETP) of the World Meteorological Organization (WMO), China has been organizing competence training for many years, on-the-job training or technical exchanges and seminars, aiming at enhancing the qualifications and competencies of the AMP of the developing countries and less developed countries (especially those in Asia) in terms of the provision of international air navigation services.

1.3 Besides, China has been providing equipment to some neighbouring countries to enhance their capabilities of detection, monitoring, warning of the hazardous weather (especially the convective weather) and provision of relevant services.

1.4 This paper introduces the work and efforts of China to improve the international aeronautical meteorological services and some plans for the near future.

¹Chinese and English versions are provided by China.

2. DISCUSSION

Enhancement of the AMP qualifications and competencies

2.1 To help improve the AMP qualifications and competencies and in developing countries and less developed countries and regions (especially those in Asia), and to help improve the capability and level of aeronautical meteorological services in these countries and regions, Civil Aviation Administration of China (CAAC) has been cooperating with China Meteorological Administration (CMA), WMO Beijing Regional Training Center, WMO Nanjing Regional Training Center under the WMO VCP and WMO ETP in training, seminars and on-the-job practice of different levels covering different aspects of aeronautical meteorological services over the years, and has provided financial support (including travel, training, accommodation and food expenses) for some professionals from the developing countries and the less developed countries.

- a) CAAC, CMA and WMO Beijing Regional Training Center have jointly organized 12 sessions of international training or seminars on aeronautical meteorological services since 2007, where both Chinese experts and experts from other countries were invited to deliver competency enhancement training to over 1000 participants from more than 80 countries and regions. Due to the impact of the COVID-19, international training on aeronautical meteorological services was held virtually from 2021 to 2023;
- b) CAAC and WMO Nanjing Regional Training Center have jointly organized several training sessions on aeronautical meteorological forecasting and observation, and sent CAAC forecasting and observation experts to provide on-site training in several countries. WMO Nanjing Regional Training Center also provided training on academic degree education for aeronautical meteorological personnel from some countries; and
- c) CAAC has also provided on-the-job training for Cambodian aeronautical meteorological personnel, and has provided internships for AMP from some countries to provide special technical training.

2.2 China will continue its efforts to help improve the qualifications and competencies of international AMP, continue to organize international training, or exchanges and seminars related to aeronautical meteorological services, and is ready to provide support such as lectures or training materials for related aeronautical meteorological training organized by ICAO Headquarters or ICAO Regional Offices.

Provision and building of meteorological detection equipment

2.3 In recent years, in order to improve the capabilities of monitoring, warning services concerning aeronautical hazardous weather in some countries, China has helped several neighbouring countries in building equipment for detecting or monitoring of hazardous weather.

- a) China has built 13 sets of lightning detectors and one set of lightning warning/forecasting system for Cambodia (since 2018), 10 sets of lightning detectors and one set of lightning warning/forecasting system for Sri Lanka (since 2019), and 6 sets of lightning detectors for Lao People's Democratic Republic (since 2023).
- b) In addition, in 2017, China helped Cambodia in building one set of Chinese Fengyun geostationary meteorological satellite receiving and processing system. In 2019, China also approved a request from Cambodia for assistance in building one set of Doppler weather

radar, and the specific building plan is currently being determined due to the impact of the COVID-19 pandemic.

2.4 China is continuously committed to enhancing the capabilities of monitoring and warning services concerning aeronautical hazardous weather in some countries, and provide assistance in the building of meteorological detection equipment such as lightning detectors to countries in need.

3. **CONCLUSION**

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

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