



International Civil Aviation Organization

**NINETEENTH MEETING OF THE METEOROLOGY SUB-GROUP
(MET SG/19) OF APANPIRG**

Bangkok, Thailand, 3 – 6 August 2015

Agenda Item 6: Research, development and implementation issues in the MET field

6.3) Forecasts, advisories and warnings

ACTIVITIES ON SIGMET-RELATED ISSUES

(Presented by China)

SUMMARY

This paper presents China's activities on SIGMET-related issues.

1. INTRODUCTION

1.1 Since the successful hosting of SIGMET advisory trial in Asia in 2011, China continues our work on SIGMET-related issues, including organizing VCP training courses of WMO to help to develop the knowledge on the issuance of SIGMETs, strengthening cooperation with Cambodia on the provision of aeronautical meteorological services over Phnom Penh (VDPP) FIR and etc.

2. DISCUSSION

2.1 VCP training courses

2.1.1 Since 2011, several VCP training courses of WMO were organized by China in Beijing, to develop the knowledge on the issuance of SIGMETs, nowcasting methods and meteorological service for terminal area, aviation meteorological personnel competency assessment, and WMO CAeM priorities and future Aeronautical Meteorological services. Usually, each VCP training course was held in Beijing for 2 weeks annually. From 2011 to 2015, 105 participants, mainly forecasters, from 50 states from Asia, Africa, America and Europe, got the chance to meet friends from different regions and improve their knowledge on aeronautical meteorological services through the VCP training courses.

2.1.2 The recent VCP training course was held in Beijing from 8 to 19 June 2015. 17 participants from 11 states attended the training course. The program of the training course is shown in the **Attachment** to this paper.

2.1.3 Future plan

Considering the importance of the regional SIGMET guide and the continuous not very satisfactory outcome of the annual SIGMET tests in the Asia/Pacific region, the VCP training course to be held in 2016 will put more attention on SIGMET-related issues, especially the upcoming newly amended regional SIGMET guide.

2.2 Cooperation with Cambodia on the provision of aeronautical meteorological services over Phnom Penh (VDPP) FIR

2.2.1 In light of the bilateral Letter of Agreement (LOA) between the Air Traffic Management Bureau of the Civil Aviation Administration of China (ATMB of CAAC) and the Flight Operation and Safety Department of the State Secretariat of Civil Aviation of Cambodia (FOSD of SSCA), Kunming (ZPPP) MWO (1 June 2009 to 31 August 2010) and Chengdu (ZUUU) MWO (since 1 September 2010) issues SIGMET for the Phnom Penh FIR on behalf of the Phnom Penh MWO.

2.2.2 To strengthening the cooperation between Cambodia and China on aeronautical meteorological services, exchange meetings on aviation meteorology between the State Secretariat of Civil Aviation (SSCA) of Cambodia and the Civil Aviation Administration of China (CAAC) were held in Cambodia or China every one or two years since 2011. The exchange visits included: a high-level meeting to review previous cooperation development and to discuss future cooperation between both sides; introduction of the operations of aeronautical meteorological services in each state; and discussion on how to strengthen the cooperation in aviation meteorological service between CAAC and SSCA.

2.2.3 As agreed on the exchange meetings by both sides, CAAC provided training on SIGMET issuing and working procedures of MWO to forecasters from SSCA. In 2012, 5 forecasters from SSCA were invited to work together with local forecasters in Chengdu MWO to better understand how to issue SIGMETs for Phnom Penh FIR and Kunming FIR for 2 weeks. According the 3rd exchange meeting which was held in Cambodia in November 2014, a new training will be held in Chengdu MWO for the forecasters from SSCA in 2015. The training will not only focus on the SIGMET-related program, but also include the content about WAFS at the request of SSCA since WAFS receiver was recently constructed in SSCA.

2.2.4 Future plan: Chengdu (ZUUU) MWO will continue issuing SIGMET for the Phnom Penh FIR on behalf of the Phnom Penh MWO according to bilateral LOA signed by ATMB of CAAC and FOSD of SSCA before the complete establishment of MWO for VDPP FIR by SSCA; to better coordinate the provision of SIGMET for VDPP FIR, exchange meetings and training will continue to be held upon the agreement of both sides; and both sides will try to extend the cooperation to other aspects of civil aviation.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
- a) note the information contained in this paper; and
 - b) discuss any relevant matters as appropriate.

Program for the 4th International Training Course on Aeronautical Met. Services

Organized by CMATC, sponsored by CMA and ATMB, 8 to 19 June 2015, Beijing

Date	Content
8 June Mon.	09:00-09:15 Opening Ceremony
	09:20-09:25 Group Photo in front of Office Building
	09:25-10:00 Introduction to CMA
	10:10-11:00 Introduction to CMATC
	11:10-11:30 Icebreaking and Course introduction
	14:00-15:00 Civil Aviation Meteorological Service in China 15:00-17:00 WMO Aeronautical Meteorology Programme
9 June Tue.	08:30-09:30 Progress and Future Directions of the NMC Weather Prediction Systems
	09:30-10:30 Severe Convective Weather Operation and Technique in CMA
	10:30-11:30 Meso-scale Analysis Technique and Application in Severe Convective Weather
	14:00-17:00 Nowcasting Methods
10 June Wed.	08:30-11:30 Severe Weather Forecast for Airport
	14:00-17:00 Severe Weather Forecast for Airport
11 June Thur.	08:30-10:00 Introduction of AMDAR Programme
	10:15-11:30 AMDAR data collect, relay and Message Control system
	14:00-15:30 AMDAR Quality Control System
	15:45-17:00 Quality Control and Evaluation of AMDAR data -Part I: Description of the Method -Part II: Results and discussion
12 June Fri.	08:30-11:30 AMDAR Data Applications in the Aviation Forecast
	14:00-15:30 AMDAR Data Management and Service in NMIC
	15:45-17:00 AMDAR Data Applications in Numerical Weather Prediction
Free Time	
15 June Mon.	08:30-11:30 Development of Aeronautical Meteorology (Global trend and in H.K., China)
	14:00-17:00 SIGMET
16 June Tue.	08:30-10:00 SIGMET
	14:00-17:00 SIGMET
17 June Wed.	08:30-11:30 Nowcasting methods for airport terminal
	14:00-17:00 Nowcasting methods for airport terminal
18 June Thurs.	08:30-11:30 Participants' Forum(Copy your PPT at 8:20)
	14:00-17:00 Field trip: Met. Centre, ATMB
19 June Fri.	08:30-11:00 Field trip: CMA compoud
	14:00-17:00 Closing Ceremony



Trainees of the 4th International Training Course on Aeronautical Met. Services

8 to 19 June 2015, Beijing