



*International Civil Aviation Organization*

**THE TENTH MEETING OF ASIA/PACIFIC OPMET MANAGEMENT  
TASK FORCE (OPMET/M TF/10)**

Bangkok, Thailand, 17 – 19 April 2012

**Agenda Item Conjoint b): Regional Participation in SIGMET advisory trial**

**PREPARATION FOR SIGMET ADVISORY AT JAPAN METEOROLOGICAL AGENCY**

(Presented by Japan)

**SUMMARY**

This paper presents the preparation for SIGMET advisory at JMA.

**1. INTRODUCTION**

1.1 The Meteorological Warnings Study Group (METWSG) has been discussing the feasibility of SIGMET advisory information. According to the summary of the discussion of METWSG/2, the aims of a feasibility study could be not only to improve the issuance of SIGMET but also to assess improvements and the level of added value. The Japan Meteorological Agency (hereafter JMA) develops a technique to improve the content of SIGMET.

**2. DEVELOPMENT TO IMPROVE THE THUNDERSTORM SIGMET**

2.1 Thunderstorm (hereafter TS) is one of the important phenomena and difficult to forecast. To improve the accuracy of the SIGMET for TS, JMA is developing an automatic detecting technique from the satellite observation and forecast by global numerical prediction model.

2.2 Figure 1 shows the sample of the detected TS region using the satellite observation. The colored cell means the amount of the CB in each cell. The blue line indicates the TS region. The direction and speed of the TS region is calculated using numerical weather prediction model. The information in picture format could be used easily by forecasters in MWO, though the format was not directly connected with the text format of SIGMET.

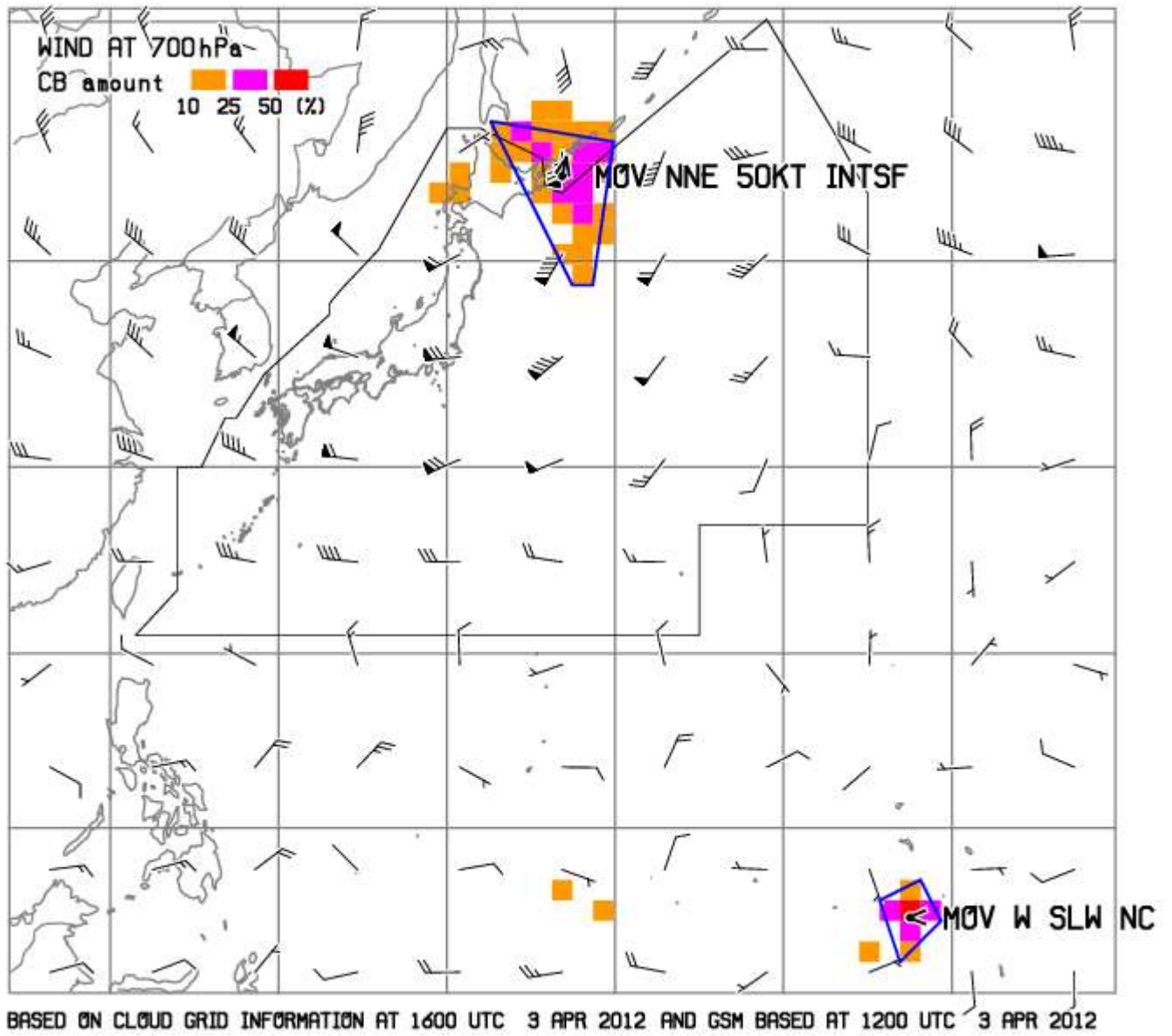


Figure 1 Sample of the TS SIGMET information in graphical format

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