

*International Civil Aviation Organization*



**THIRTEENTH MEETING OF THE ASIA/PACIFIC REGIONAL OPMET  
BULLETIN EXCHANGE WORKING GROUP (ROBEX WG/13) and  
FIFTH MEETING OF METEOROLOGICAL HAZARDS TASK FORCE  
(MET/H TF/5)**

Seoul, Republic of Korea, 18 March 2015

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**Agenda Item (conjoint session) 2: SIGMET and advisory information**

**GRAPHICAL TROPICAL CYCLONE ADVISORY – TCAC TOKYO**

(Presented by Japan)

**SUMMARY**

TCAC Tokyo plans to start providing graphical format tropical cyclone advisories in 2015. The specifications of these advisories are based on MODEL TCG in ICAO Annex 3. This paper presents the outline of the graphical advisories.

**1. INTRODUCTION**

1.1 As indicated in the Manual of Aeronautical Meteorological Practice (Doc 8896), the information on tropical cyclones in a graphical format provided by TCAC Tokyo is presented at the Japan Meteorological Agency (JMA) website (<http://www.jma.go.jp/en/typh/>).

1.2 In addition, TCAC Tokyo is developing graphical tropical cyclone advisories (hereinafter referred to as TCG) according to MODEL TCG in Appendix 1 of ICAO Annex 3 as reported in IP/7 of MET SG/17, and plans to start providing the TCG this August, during the tropical cyclone season in the western North Pacific.

**2. OUTLINES OF TCG**

2.1 An example of TCG under development by TCAC Tokyo is shown in Figure 1. The extent of FRQ CB is automatically depicted using the technique called “Cloud Grid Information (CGI)” which utilizes JMA satellite images. CGI includes the information on the amount and type of clouds in a grid and enables prompt provision of the information on FRQ CB.

2.2 In TCG, CBs which meet the following conditions are determined as FRQ CB associating a tropical cyclone:

- a) CBs existing within a gale force wind area ;
- b) CBs existing out of a gale force wind area, but connect to CB grids within a gale force wind area; and
- c) CBs covering a wide area (about 100 km x 100km scale).

2.3 TCG will be issued, together with text advisories, when 1) a tropical cyclone with Tropical Storm (TS) intensity\* or higher exists in the area of responsibility of the Center, or 2) a tropical cyclone is expected to reach TS intensity in the area within 24 hours. In the second case, gale force wind area will not be presented in TCG.

2.4 As the extent of FRQ CB in SIGMET is expressed as a radius from the center of a tropical cyclone, each MWO would be urged to carefully convert the extent of FRQ CB in TCG to that in SIGMET especially when CB areas exist far from the tropical cyclone center.

2.5 TCG will be provided through the website. The URL of TCAC Tokyo website described in Doc 8896 will be updated. The specifications of TCG and text format advisories will also be available at the website. TCAC Tokyo plans to send TCG to WAFcS so that it will be transmitted through WIFS, SADIS FTP and SADIS. WMO AHLs of the bulletin will be PZXE (01-05) RJTD.

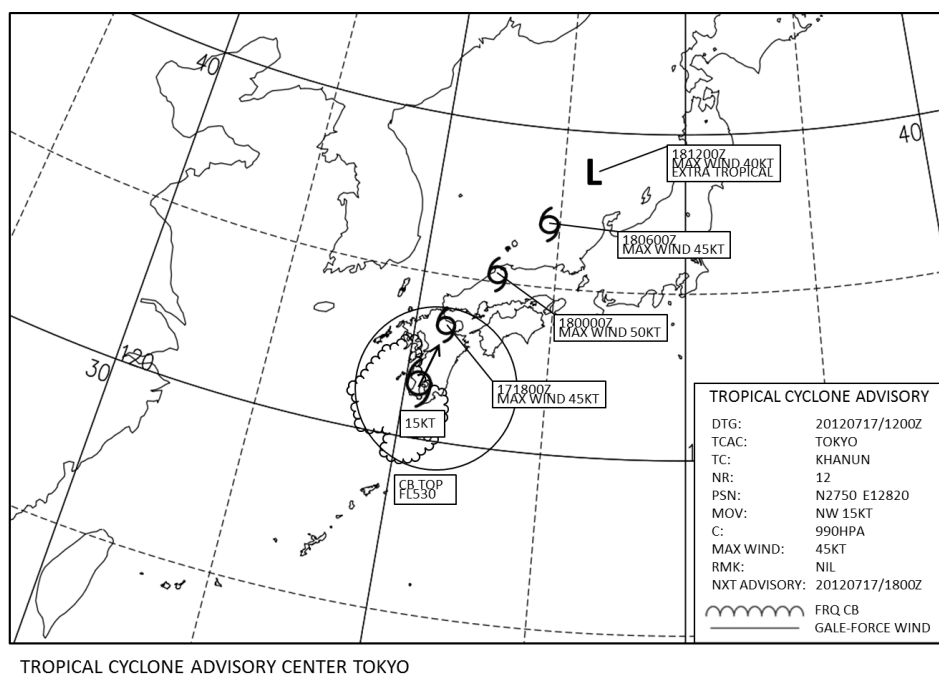


Figure1. Example of TCG

### 3. ACTION BY THE MEETING

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

\* Tropical Storm: A tropical cyclone with its maximum surface wind speed (10-minute average) near the center is in the range of 34 knots to 47 knots.