



*International Civil Aviation Organization*

**SIXTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL  
SERVICES WORKING GROUP (MET/S WG/6)**

Bangkok, Thailand, 9 – 11 March 2016

**Agenda Item 2: SIGMET and (volcanic ash and tropical cyclone) advisory information  
(including SIGMET tests)**

**ISSUANCE OF GRAPHICAL TROPICAL CYCLONE ADVISORY BY TCAC TOKYO**

(Presented by Japan)

**SUMMARY**

This paper presents the information on graphical tropical cyclone advisory which Tropical Cyclone Advisory Center (TCAC) Tokyo began to provide from 06UTC on 26<sup>th</sup> August 2015. The advisories are available at the TCAC Tokyo website and WAFIC information services. An example of actually issued graphical advisory is also shown in this paper.

**1. INTRODUCTION**

1.1 TCAC Tokyo has provided graphical tropical cyclone information as indicated in the Manual of Aeronautical Meteorological Practice (Doc 8896). In addition, TCAC Tokyo started to issue tropical cyclone advisories in graphical format (hereinafter referred to as TCG) according to MODEL TCG in Appendix 1 of ICAO Annex 3 from 06UTC on 26<sup>th</sup> August 2015. The issuance of TCG by TCAC Tokyo was informed by ICAO APAC state letter dated 20<sup>th</sup> August 2015 (Ref: T4/9.2 – AP115/15(MET)).

1.2 TCGs are provided through the website (<http://www.data.jma.go.jp/fcd/tca/data/index.html>). TCAC Tokyo has renewed its website and changed the URL described in Doc 8896. The specifications of TCG and text format advisory are also available at the website.

1.3 TCAC Tokyo sends TCGs to WAFICs with WMO AHLs of PZXE(01-06) RJTD . TCGs are also obtainable from WIFS, SADIS secure FTP and SADIS.

**2. EXAMPLE OF TCG**

2.1 The extent of FRQ CB in a TCG is automatically depicted using the technique called “Cloud Grid Information (CGI)” which analyzes the amount and type of clouds in each grid of JMA’s satellite images and promptly translates them into FRQ CB. 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.

2.2 An example of TCG actually issued on 2<sup>nd</sup> October 2015 and the corresponding IR imagery are shown in Figure1. CB area can be seen south of the tropical cyclone center while there are few convective clouds north of it. Although CB area is not always circle-shaped especially at the weakening stage of a tropical cyclone like this case, TCG can show the actual CB area by using the CGI technique.

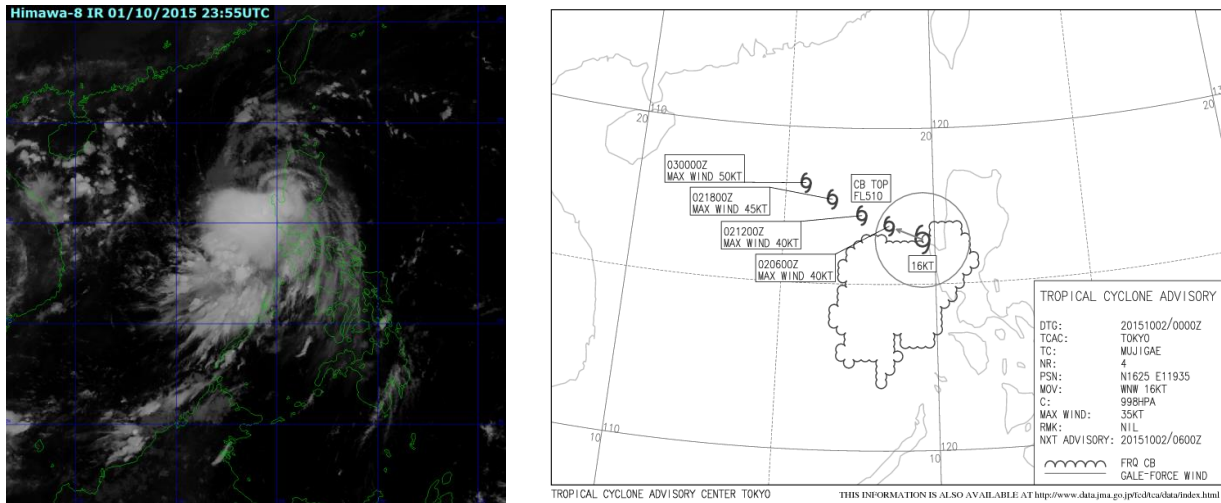


Figure1. Satellite imagery (IR) and TCG at 00UTC on 2<sup>nd</sup> October 2015  
Left: Himawari-8 IR imagery, Right: TCG

### 3. ACTION REQUIRED BY THE MEETING

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

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