

*International Civil Aviation Organization*

ICAO

**NINTH MEETING OF THE ASIA AND PACIFIC  
METEOROLOGICAL REQUIREMENTS WORKING  
GROUP (MET/R WG/9)**

Web-conference, 07 May 2020 and 11 – 14 May 2020

**Agenda Item 4: MET information required to support end-user systems****INTRODUCTION TO THE WEB-BASED VISIBILITY AND WEATHER INFORMATION  
AT INDONESIAN AERODROMES FOR AVIATION USERS**

(Presented by Indonesia)

**SUMMARY**

This paper presents the introduction to the web-based visibility and weather information at Indonesian aerodromes for aviation users which has been available at the BMKG Indonesia's official website on aviation meteorological information.

**1. INTRODUCTION**

1.1 Visibility and weather at aerodromes can be considered as the important meteorological parameters to the aviation users, in particular, to set up the flight plans as well as for the take-off and landing. These parameters would also be useful especially during the wet season and the reduction of visibility in some aerodromes due to certain phenomena such as forest fire and/or volcanic ash. A visualized and web-based information on visibility and weather has received a positive response from the end-users.

1.2 Indonesia has more than 200 airports with 100 of those have been equipped with manned meteorological stations, while the remaining are equipped with automated weather observing systems (AWOS). In regards with the large number of Indonesian aerodromes, a visualized display of visibility and weather information is expected to facilitate the end-users the smooth and efficient assessment in providing the ATM services.

**2. DISCUSSION**

2.1 A dedicated website to access the map of visibility and weather information is available at [http://178.128.118.152/peta\\_visibility\\_animasi/](http://178.128.118.152/peta_visibility_animasi/). This website is integrated in the BMKG Indonesia's official website on aviation meteorological information (<http://aviation.bmkg.go.id/web/>).

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2.2 Features available on the web-based visibility and weather information include:

- a. weather information (based on the latest METAR/SPECI)
- b. visibility information (based on the latest METAR/SPECI)
- c. IR satellite animation, to assess the potential rain. This feature also enables users to see buildings, streets, and objects of impacted area while viewing the animation process. The satellite animation can be paused, replayed, or rotated to comfort the users in assessing the weather.
- d. quick search (auto zoom to local airport area by typing the name of aerodrome or IATA code of the aerodrome).

2.3 This GIS application was initially created to observe the distribution of areas affected by smoke in Indonesia due to forest fire events which occur almost annually, particularly in the western part of Indonesia. Thus, only parameters of visibility and weather were included. Over time, ATM users requested more feature to assess weather quickly, thus IR animation and quick search feature was added. Further request from end-users would be much welcome.

**3. ACTION BY THE MEETING**

3.1 Note the information contained in this paper.

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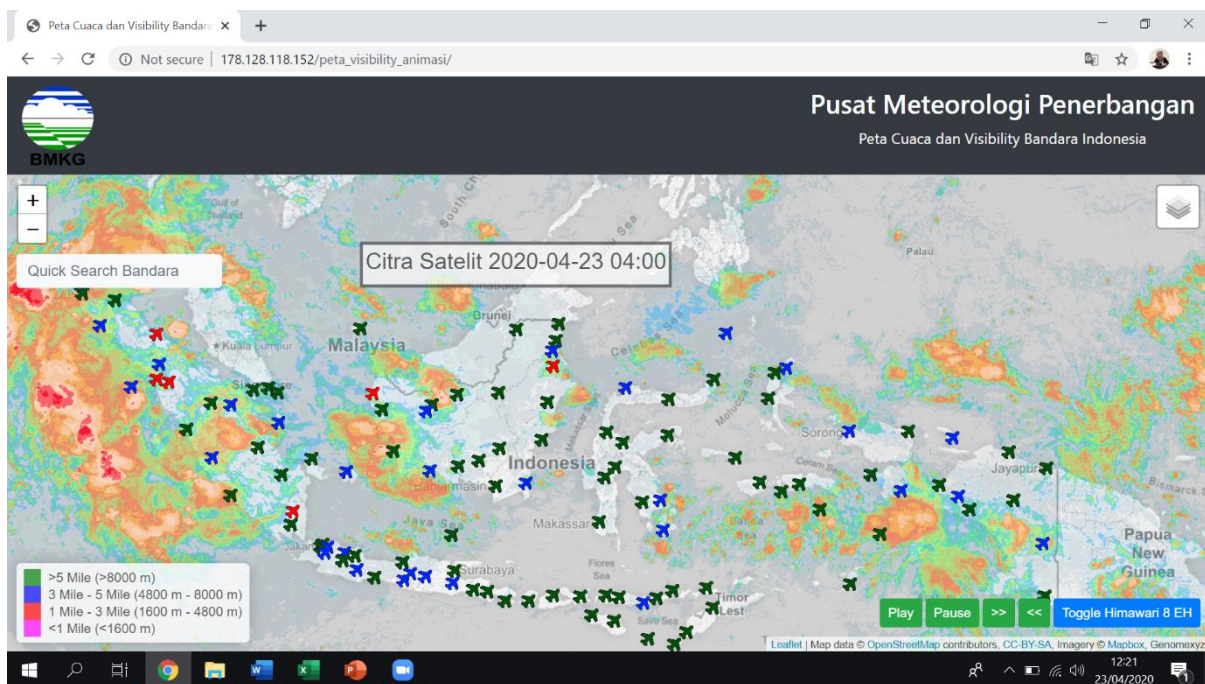


Figure 1. Display of web-based visibility and weather information at Indonesian aerodromes