

WORLD METEOROLOGICAL ORGANIZATION

**WMO AMDAR PANEL
(Fifteenth Session)**

(BOULDER, USA, 6-9 NOVEMBER 2012)

AMDAR Panel-15/Doc.3.3.5

(5.XI.2012)

ITEM: 3.3

Original: ENGLISH ONLY

AMDAR PROGRAMME STATUS

Status Reports on National and Regional Programmes

AMDAR Programme Status Report for Hong Kong, China

(Submitted by Hong Kong, China)

SUMMARY AND PURPOSE OF DOCUMENT

Provides a progress and activity report for the Hong Kong, China AMDAR Programme.

ACTION PROPOSED

1. The Panel is invited to note the information contained in the document.
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PROGRESS AND ACTIVITY REPORT

1. Six B-747 aircraft of the Cathay Pacific Airways continued to provide AMDAR data to the AMDAR programme of Hong Kong, China during the past year. The average number of AMDAR observations received at the Hong Kong International Airport (HKIA) stayed at around 1,000 per day.
2. Dissemination of AMDAR data in FM42 format was discontinued on 15 December 2011. AMDAR data from Hong Kong, China are now disseminated on GTS in BUFR format.
3. Apart from providing actual wind information along flight path and supporting aviation weather forecasting at HKIA, the high-resolution AMDAR data available from departure flights are utilized for identification of windshear.

Current Status

Airline	Country of Airline	Aircraft Type (e.g. B737-400)	Number of Aircraft	AMDAR Software	Format On GTS (BUFR / FM42)
Cathay Pacific Airlines	Hong Kong, China	B747-400	6	ARINC 620/3 Version 2	BUFR

Development & Other Activities

1. AMDAR data received from GTS are routinely assimilated into the 3-dimensional variational data assimilation (3DVAR) system of mesoscale non-hydrostatic numerical weather prediction (NWP) model running at horizontal resolution of 10 km for improving the wind and temperature analysis in the initial condition.

Future Plans

1. Hong Kong, China plans to expand its AMDAR programme to include airbus aircraft over the next few years, subject to the outcome on discussions regarding downlink issues with the local airline concerned. The aim is to increase data availability near HKIA to support development of new aviation-specific MET services, e.g. new meteorological services for terminal area (MSTA).