

**Twenty Fourth Meeting of the  
Informal South Pacific ATS Co-ordinating Group (ISPACG/24)**

**Brisbane, Australia, 11-12 March 2010**

**Agenda Item 5: Identify Future Work Programmes**

**Using CPDLC to Exchange Turbulence Information**

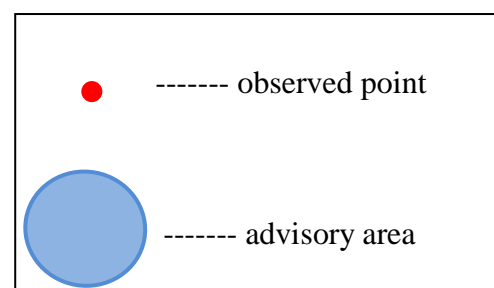
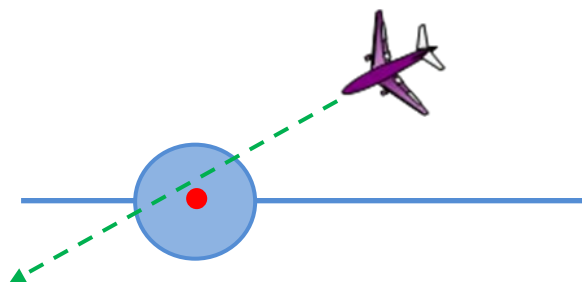
**Presented by JCAB**

**SUMMARY**

The operational trial on acceptance and provision of moderate or severe turbulence information by CPDLC within data link airspace of Fukuoka FIR has been started since 10 Feb 2010.

**1. INTRODUCTION**

- 1.1 Since several accidents or incidents have been occurred caused by turbulence, JCAB has studied how to provide flight crew more quickly and correctly with turbulence information which is reported by other aircraft.
- 1.2 JCAB developed new software to analyze the turbulence information from aircraft by CPDLC and provide other aircraft related to the turbulence information. And JCAB has started the operational trial on acceptance and provision of moderate or severe turbulence information by CPLDC since 10 Feb 2010.
- 1.3 Only flight crews that will fly through an area of observed turbulence will receive the advisory. The advisory is based on a turbulence report that indicated moderate or severe turbulence during the preceding 2-hour period. The area is defined by position and/or altitude defined in the turbulence report with an altitude tolerance of plus or minus 2000 feet.





## **2. DISCUSSION**

- 2.1 JCAB acknowledges that there are various kinds of turbulence reports from aircrafts by CPDLC because of FREE TEXT. That makes analysis the turbulence report automatically difficult.
- 2.2 Therefore, JCAB has considered standardizing the downlink and uplink messages for turbulence information to reduce workload of flight crews and controllers. These messages formats will be added into GOLD.
- 2.3 Since these messages are still based on FREE TEXT, we need to continue consider standardizing as CPDLC message set that contribute greatly to safety flight.

## **3. ACTION BY THE MEETING**

- 3.1 The meeting is invited to;
- 3.2 Note the contents of this paper,
- 3.3 Agree this procedure will be added into GOLD, and
- 3.4 Agree to standardize as CPDLC message set.