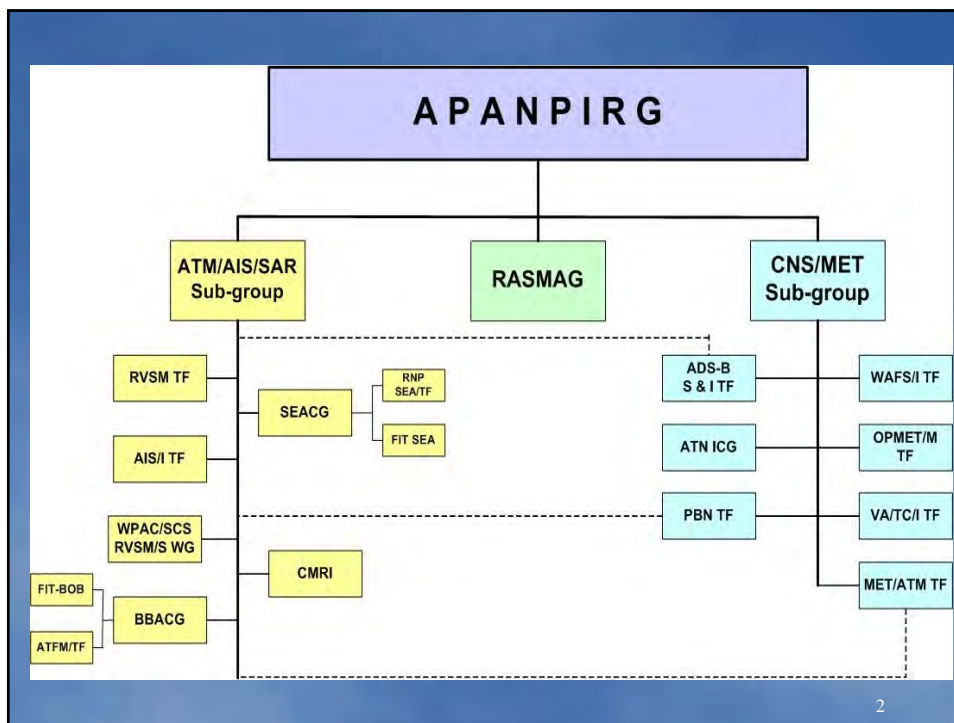


RASMAG STUDY ON THE EFFECT OF AIDC ON SAFETY

Kyotaro Harano
Regional Officer ATM
ICAO Asia and Pacific Office

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RASMAG

Many RVSM Large Height Deviations (LHDs) are being reported to RASMAG.

LHD – Any vertical deviation of 90m/300ft or more from the flight level expected to be occupied by the flight.

The use of AIDC has long been advocated by RASMAG as a way of reducing ATC unit to ATC unit coordination errors.

3

AIDC Implementation

AIDC has been implemented among the area control centres (ACCs) of Japan and the Republic of Korea since 15 June 2009. RASMAG reviewed the effect on the occurrence of Large Height Deviations (LHDs) before and after the implementation of AIDC.

4

RASMAG Review

Japan and the United States (Regional Monitoring Agency (RMA) responsible for ROK) conducted analyses on occurrences of LHD caused by ATC-to-ATC transfer errors

5

Analysis on B576

Japan and the United States focused on ATS route B576 (next slide)

B576 – bidirectional and 228 aircraft movement per day

6



7

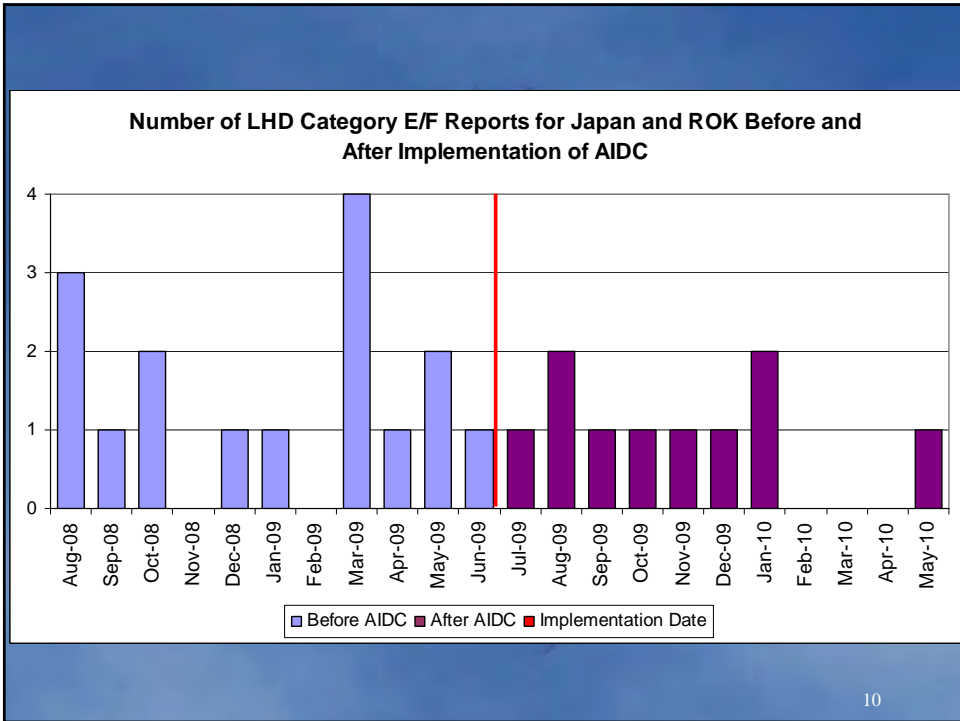
Summary of LHD Occurrences and Duration

A total of 26 LHD events - from 1 August 2008 to 31 May 2010.

Table (next slide) shows the summary of occurrences in terms of numbers and duration.

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Month-Year	No. of LHDs	LHD Duration (min)
Aug-08	3	0.6667
Sep-08	1	0
Oct-08	2	0.5
Nov-08	0	0
Dec-08	1	0
Jan-09	1	0
Feb-09	0	0
Mar-09	4	0.8
Apr-09	1	0
May-09	2	0
Jun-09	1	0
Jul-09	1	1
Aug-09	2	0.1667
Sep-09	1	0
Oct-09	1	0.75
Nov-09	1	0
Dec-09	1	0
Jan-10	2	0
Feb-10	0	0
Mar-10	0	0
Apr-10	0	0
May-10	1	0
Total	26	3.8833



Findings

16 LHDs in 11 months before the AIDC implementation

vs.

10 LHDs in 11 months after the AIDC implementation

Significant reduction however not perfect

11

Event Date	Source	Location of Deviation	Duration of LHD (min) in Incheon FIR	Code
21-Jul-09	Naha ACC	ATOTI (B576)	0	E
19-Aug-09	Incheon ACC	SADLI (A593)	0.08	E
23-Aug-09	Incheon ACC	ATOTI (B576)	0.08	E
21-Sep-09	Naha ACC	ATOTI (B576)	0	E
1-Oct-09	Naha ACC	ATOTI (B576)	0	E
15-Nov-09	Naha ACC	ATOTI (B576)	Unknown	E
7-Dec-09	Naha ACC	ATOTI (B576)	0	E
21-Jan-10	Naha ACC	ATOTI (B576)	0	E
26-Jan-10	Naha ACC	ATOTI (B576)	0	E
11-May-10	Fukuoka	ATOTI (B576)	Unknown	E

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Conclusions

RASAMG – continues the study of effect of AIDC to improve safety.

AIDC – not perfect at the time however must be powerful tool to reduce the LHDs between ATC units.

States – urged to implement AIDC as soon as possible.