



Ministry of Land Infrastructure
Civil Aviation Bureau of Japan

Influence of the weather forecast on air traffic management

ICAO/WMO ASIA/PAC METEOROLOGY/AIR TRAFFIC
MANAGEMENT(MET/ATM) SEMINAR
24-26 January 2011 / Fukuoka

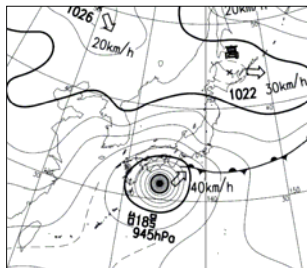
(ATMC)
Japan Civil Aviation Bureau

JCAB

Civil Aviation Bureau Japan

1. Introduction

- We will introduce the situation of the flow control based on the weather forecast given by the ATMetC.
- We will clarify subjects to work on forward.

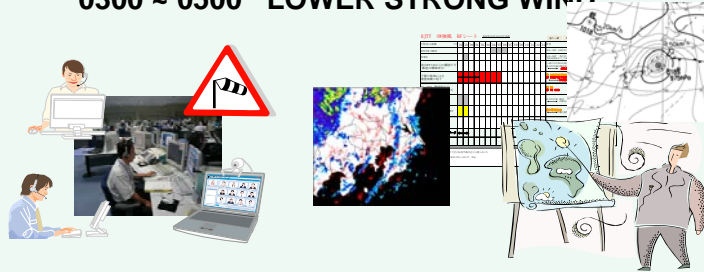


Inclement weather was expected through 7th to 8th October 2009 because of the typhoon. A high wind was expected at Tokyo International Airport.

2. Introduction of the flow control implemented at Tokyo International Airport

CDM conference

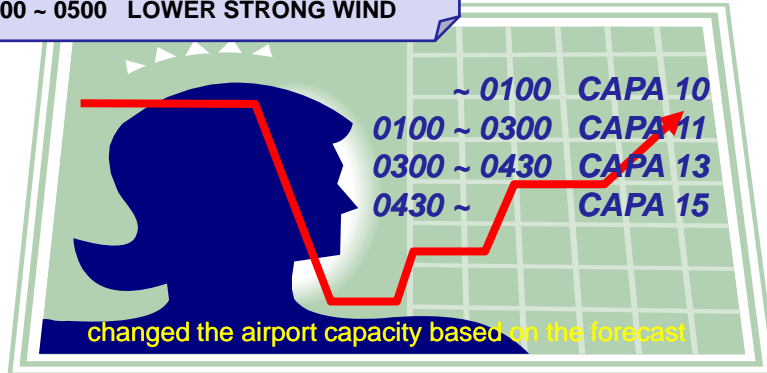
0100 THE PEAK OF SOUTH WIND
 ~ 0300 STRONG WIND
 0300 ~ 0500 LOWER STRONG WIND



2. Introduction of the flow control implemented at Tokyo International Airport

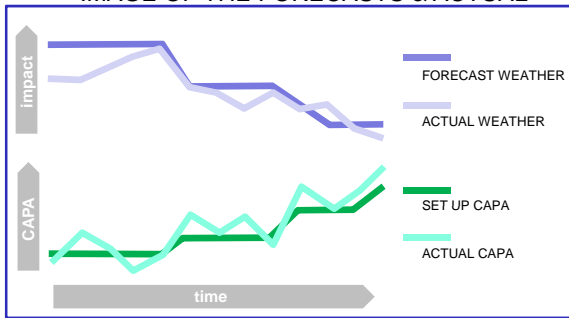
<FORECAST>

0100 THE PEAK OF SOUTH WIND
 ~ 0300 STRONG WIND
 0300 ~ 0500 LOWER STRONG WIND



2. Introduction of the flow control implemented at Tokyo International Airport

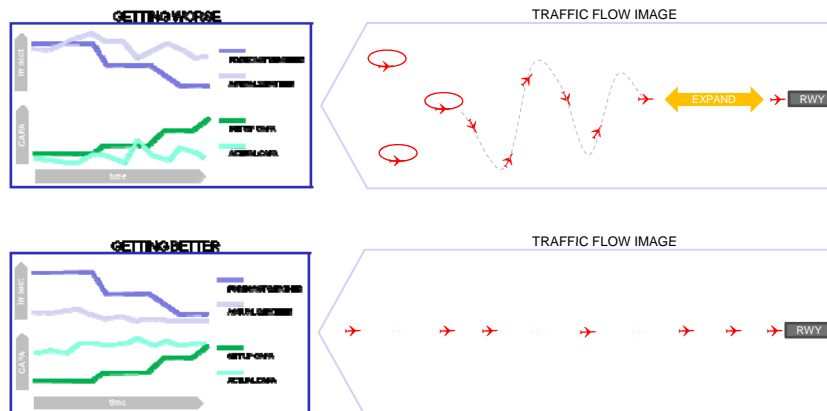
IMAGE OF THE FORECASTS & ACTUAL



We were smoothly able to implement Air Traffic Management as scheduled.

3. The study of the relation between weather forecast and ATM

3.1 INFLUENCE



3. The study of the relation between weather forecast and ATM

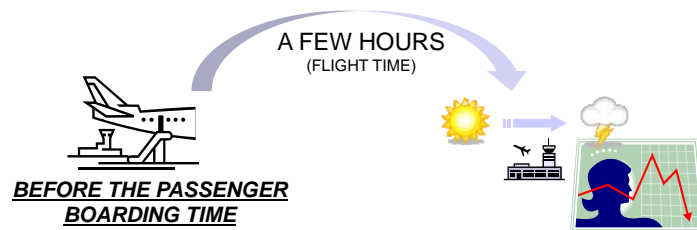
3.2 TIMING

IN-FLIGHT DELAY

: HIGH PRECISION, WASTE FUEL, LOW PERMISSIBLE

GROUND DELAY

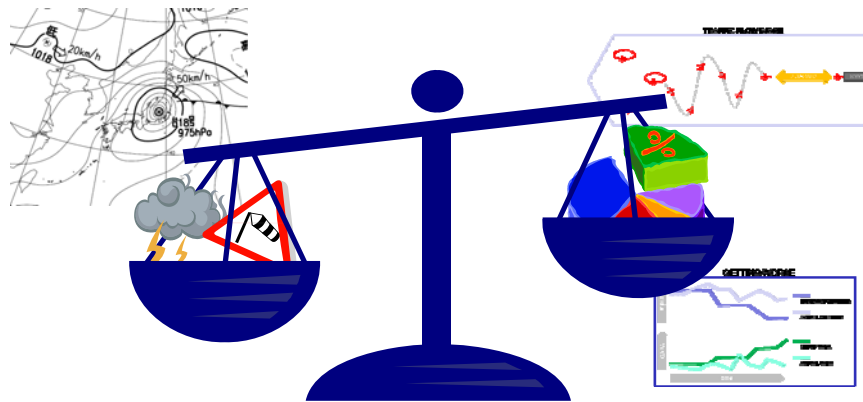
: HIGH PERMISSIBLE, SAVE FUEL, DECIDE EARLIER



7

3. The study of the relation between weather forecast and ATM

3.3 DEGREE OF INFLUENCE



8

4. Hurdles to clear

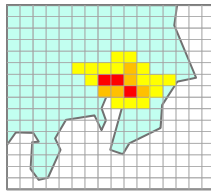
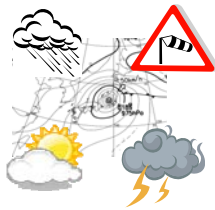
4.1 Take initiatives to challenge the following problems.

4.2 The meteorological organization should provide the information as precise as possible

weather phenomena

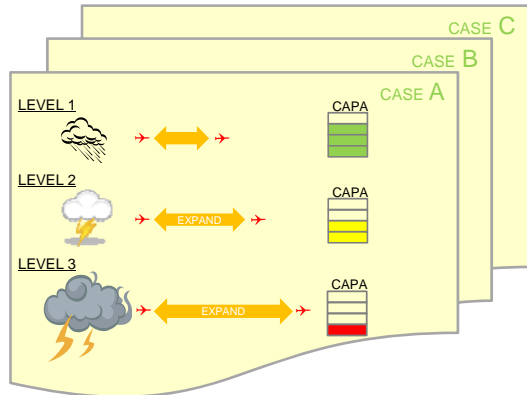
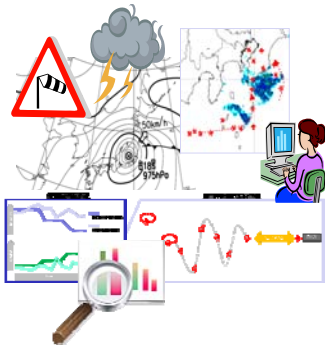
the range of affected area

the time of occurrence & recovery



4. Hurdles to clear

4.3 The ATM organization should analyze and study the degree of influence , and invent some formulaic patterns.



Air Traffic management Center

Thanks!

B 1-2
A 1-23

