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**ASIA/PACIFIC  
MET/ATM Seminar**

**WHAT IS ATM?**

24 - 28 January 2011, Fukuoka, Japan

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**What is the “Air Traffic Management (ATM)”?**

The dynamic, integrated management of air traffic and airspace including air traffic services, airspace management and air traffic flow management – safely, economically, and efficiently – through the provision of facilities and seamless services in collaboration with all parties and involving airborne and ground-based functions.

*(PANS ATM Chapter 1: Definitions)*

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**So, if ATM is ATS, Airspace Management (ASM) and ATFM, where does METEOROLOGY fit in?**

**In reality, Meteorological issues have an impact on all three components of ATM**

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### **In terms of Airspace Management:**

ASM matters relate to the design and location of differing types and uses of airspace.

**Meteorological circumstances will be considered, for example, in:**

- a) airspace for VFR operations;
- b) airspace reservations for military activity;
- c) general avoidance of prevailing hazardous MET phenomena for aviation operations.

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### **In terms of Air Traffic Flow Management (ATFM):**

Air Traffic Flow Management (ATFM) matters relate to the safe, orderly and expeditious flow of air traffic by ensuring that ATC capacity is utilized to the maximum extent possible.

**Hazardous or restrictive Met conditions have a direct and immediate (negative) impact on ATFM by reducing airspace and aerodrome capacity.**

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### **In terms of Air Traffic Services (ATS):**

Air Traffic Services is a generic term meaning variously;

- a) **flight information service;**
- b) alerting service;
- c) air traffic advisory service; and
- d) **air traffic control services (ATC)** including Tower, Approach and En-route services.

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### **The Objective of Flight Information Service:**

**Provide advice and information useful for the safe and efficient conduct of flights**

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### **The Objectives of ATC:**

**Annex 11 informs us that the objectives of the ATC shall be to:**

- a) **Prevent collisions:**
  - 1) **between aircraft; and**
  - 2) **on the manoeuvring area between aircraft and obstructions; and**
- b) **Expediting and maintaining an orderly flow of air traffic.**

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## ***Accordingly.....***

It is the expectation of ATM practitioners that in the provision of ATM:

**Meteorology practitioners will assist with the provision of useful advice and information in a user-friendly manner.**

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