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**ASIA/PACIFIC
MET/ATM Seminar**

WHAT IS ATM?

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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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