



# PANS AIM Workshop 2019

## Introduction

Raúl A. Martínez Díaz

*ICAO AIM Regional Officer – NACC Regional Office*

**Mexico City, 3 to 5 September 2019**



✈ **SARPs for AIS** were first adopted by the Council on **15 May 1953**, (Article 37 of the Convention on International Civil Aviation Chicago 1944), and were designated as **Annex 15 to the Convention**

✈ Annex 15 had the following development.:

✈ The 1<sup>st</sup>. requirements were developed as *Procedures for International Notices to Airmen* -PANS-NOTAM, PICA0 Doc 2713- in January 1947.

✈ In 1949, the Special NOTAM Meeting reviewed as *Procedures for Air Navigation Services* -PANS-AIS, Doc 7106- applicable on **1 August 1951**.

✈ In 1952, the PANS-AIS was reviewed and was adopted by the Council on **15 May 1953** as Annex 15 to the Convention applicable on **1 April 1954**.



- ✈️ Origen- the twelfth meeting of the **AIS-AIM Study Group** (AIS-AIMSG/12)
- ✈️ AMDt concerning **restructure of Annex 15** to facilitate incorporation of AIM requirements
- ✈️ Changes to the **technical contents** of Annex 15 to facilitate the transition from AIS to AIM
- ✈️ Consequential AMDt in support of space weather information (MET)
- ✈️ Some dates: 9 March 2018, 16 July 2018 and **8 November 2018**



- ✈ The SARPs in **Annex 15** govern the application of the *Procedures for Air Navigation Services — Aeronautical Information Management* — **PANS AIM - Doc 10066**
- ✈ The *Regional Supplementary Procedures — Aeronautical Information Services*, contained in **Doc 7030**, in which latter document will be found subsidiary procedures of regional application



# AMDt 40 - Notes

## ✈ Note 1

The **objective of the AIS** is to ensure the flow of aeronautical data and aeronautical information necessary for global ATM system safety, regularity, economy and efficiency in an environmentally sustainable manner.

The **role and importance** of aeronautical data and aeronautical information changed significantly with the implementation of RNAV, PBN, airborne computer-based navigation systems, performance-based communication (PBC), performance-based surveillance (PBS), data link systems and satellite voice communications (SATVOICE). Corrupt, erroneous, late or missing aeronautical data and aeronautical information can potentially affect the safety of air navigation

## ✈ Note 2

*These SARPs are to be used in conjunction with the ICAO Abbreviations and Codes PANS ABC, Doc 8400*

## ✈ Note 3

*These SARPs are to be used in conjunction with the PANS-AIM, Doc 10066*

## ✈ Note 4

*Guidance material on the organization and operation of the AIS is contained in the AIS Manual Doc 8126 new version on Vol, I to IV*



## ✈ **Aeronautical information management (AIM)**

The **dynamic**, integrated management of aeronautical information through the **provision** and **exchange** of **quality-assured** digital aeronautical data in **collaboration with all parties**

## ✈ **Aeronautical data**

A representation of **aeronautical facts**, **concepts** or **instructions** in a formalized manner suitable for communication, interpretation or processing

## ✈ **Aeronautical information**

Information **resulting from the assembly, analysis and formatting of aeronautical data**

## ✈ **Aeronautical information product.**

Aeronautical data and aeronautical information provided either as digital data sets or as a **standardized presentation** in electronic media  
Aeronautical information products include:

- ✈ — eAIP, including AMDt and SUPs
- ✈ — Aeronautical Information Circulars (AIC)
- ✈ — electronic Aeronautical Charts (eCharts)
- ✈ — NOTAM (future Digital NOTAM)
- ✈ — digital data sets

*Note.—Aeronautical information products are intended primarily to satisfy international requirements for the **exchange** of aeronautical information*



# Definitions (cont...)

## ✈ *Metadata*

### **Data about data - ISO 19115\***

Note.— A structured description of the content, quality, condition or other characteristics of data

## ✈ *Validation*

Confirmation, through the provision of objective evidence, that the requirements for a specific intended use or application have been fulfilled  
ISO 9000\*

## ✈ *Data resolution.*

A number of units or digits to which a measured or calculated value is expressed and used.

## ✈ *Data set.*

Identifiable collection of data - ISO 19101\*

## ✈ *Data set series.*

Collection of data sets sharing the same product specification - (ISO 19115\*)



# PANS AIM

## TABLE OF CONTENTS

Foreword

### **Chapter 1. Definitions**

### **Chapter 2. Aeronautical information management**

- 2.1 Information management requirements
- 2.2 Data integrity monitoring and assurance

### **Chapter 3. Quality management**

- 3.1 Quality management system

### **Chapter 4. Aeronautical Data requirements**

- 4.1 Data origination requirements
- 4.2 Metadata requirements

### **Chapter 5. Aeronautical Information Products and services**

- 5.1 General
- 5.2 Aeronautical information in a standardized presentation

- 5.3 Digital data
- 5.4 Distribution services
- 5.5 Pre-flight information services

### **Chapter 6. Aeronautical information updates**

- 6.1 Aeronautical information product updates

#### **Appendix 1. Aeronautical Data Catalogue**

#### **Appendix 2. Contents of the Aeronautical Information Publication (AIP)**

#### **Appendix 3. NOTAM Format**

#### **Appendix 4. SNOWTAM Format**

#### **Appendix 5. ASHTAM Format**

#### **Appendix 6. Terrain and Obstacle attributes provision requirements**





# Aeronautical information in a standardized presentation

✈ Aeronautical information provided in a standardized presentation shall include:

- ✈ AIP,
- ✈ AIP-AMDt,
- ✈ AIP-SUPs,
- ✈ AIC,
- ✈ NOTAM
- ✈ Aeronautical Charts

## Note 1.

Detailed specifications about standardized presentation are contained in the Doc 10066 - PANS-AIM

## Note 2.

Cases where digital data sets may replace the corresponding elements of the standardized presentation are detailed in the Doc 10066 PANS-AIM



## *✈ Note 1.*

*Numerical requirements for terrain and obstacle data sets are contained in the Doc 10066 - PANS AIM*

- *Appendices 1 and 8*

## *✈ Note 2.*

*✈ Requirements for terrain and obstacle data collection surfaces are contained in the Doc 10066 - PANS-AIM*

- *Appendix 8*



ICAO

UNITING AVIATION



ICAO

North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU