Regional Assistance Project for the Significant meteorological information (SIGMET) Information Improvement Workshop, Part 1 – Analysis and forecasting techniques (SIGMET/WS/P1)

ICAO NACC Regional Office, 29 May to 2 June 2023

Summary of Discussions

Date	29 May to 2 June 2023
Location	ICAO NACC Regional Office
Opening Ceremony	The Workshop was attended by 44 delegates from 19 States/Territories and 2 International Organizations from the NAM/CAR/SAM Regions. The list of participants is shown in **Attachment A.**

1. References

1.1 Work Programme of the North American, Central American and Caribbean Working Group (NACC/WG) Aeronautical Meteorology Task Force (MET/TF)

1.2 Project RLA09801 — Multi-Regional Civil Aviation Assistance Programme (MCAAP) Invitation to the Regional Assistance Project for the Significant meteorological information (SIGMET) Information Improvement Workshop, Part 1 – Analysis and forecasting techniques ICAO NACC Regional Office, 29 May to 2 June 2023 – Reference NACC96364 24 February 2023.

2. General Objectives

2.1 To promote the standardization and harmonization of procedures and formats for the preparation and dissemination of SIGMET information.

2.2 To increase availability and quality of SIGMET information in the NAM/CAR/SAM Regions, through the implementation of the provisions of Annex 3 to the Chicago Convention and related guidance material.

3. Specific deliverables

3.1 This Part 1 of the SIGMET Workshop was intended to provide Aeronautical Meteorological Personnel (AMP) with the necessary knowledge and skills to improve the diagnose and forecast of en-route weather phenomena and other local phenomena, that may affect the safety, regularity and efficiency of international air navigation, in preparation for the Part 2 of the workshop being scheduled in cooperation with the World Meteorological Organization (WMO) Regional Association IV.

4. Workshop Schedule and Activities

4.1 The SIGMET Workshop Part 1 was developed from 9:00 hrs to 15:30 hrs (Mexico City local time).

4.2 Special recognition was given to the National Weather Service - Weather Prediction Center (WPC) of United States, represented by Dr. Jose Galvez for providing a valuable training and sharing the material available in English and Spanish at the event website.

4.3 The workshop included presentations from Ecuador, Mexico, the World Meteorological Organization – Regional Association IV Expert-Team on Services for Aviation (WMO/RA IV ET-AVI) and the Caribbean Meteorological Organization (CMO), a recognition was given to:

- Mr. Arturo Lomas –Ecuador General Directorate of Civil Aviation (DGAC)
- Mrs. Juana Idalia Ledesma - Services for Air Navigation in the Mexican Space (SENEAM)
- Mrs. Heather Smith - WMO RA IV ET-AVI Co-Lead
- Mr. Mike Graf - WMO RA IV ET-AVI Co-Lead
- Dr. Arlene Laing – Caribbean Meteorological Organization (CMO)

4.4 The workshop webpage is located at:

https://www.icao.int/NACC/Pages/meetings-2023-sigmet.aspx

5. Outcomes/Recommendations

ICAO member States to consider:

5.1 consider the enhancement of the detection of lighting networks and the use for local aerodrome reports,

5.2 highlight the importance of the equivalent potential temperature for thermodynamic analysis, particularly in tropical regions,

5.3 number the tropical waves that affect the Caribbean in a standardized manner, which allows continuous monitoring and harmonized production of weather warning information,

5.4 discuss the availability and possible use of the NOAA-Unique Combined Atmospheric Processing System (NUCAPS) in the operational forecasting. The information is available at: https://www.ospo.noaa.gov/Products/atmosphere/soundings/nucaps/,

5.5 analyse the applicability and operational benefits with the use of the new severe convection product: *Severe Storms RGB* (EUMET SAT) available at: https://n9.cl/rammb-cira.

5.6 Finally, that the National Weather Service - Weather Prediction Center (WPC) consider expanding the geographic coverage of the outputs of the Galvez-Davison Index (GDI), to cover regions further east over the Atlantichttps://www.wpc.ncep.noaa.gov/international/gdi/

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