



**Fifth Joint GREPECAS–RASG-PA Meeting (GREPECAS–RASG-PA/5) and  
 Twenty-Third Meeting of the Caribbean and South American Regional Planning and  
 Implementation Group (GREPECAS/23)**

Virtual Phase (Asynchronous, 19 January to 17 February 2026)

In-person Phase (Mexico City, Mexico, 2 to 6 March 2026)

**Agenda Item 8: CAR/SAM Air Navigation Implementation**

**REGIONAL COLLABORATION AT THE TULUM, MEXICO METEOROLOGICAL WATCH  
 OFFICE**

(Presented by Mexico)

<b>EXECUTIVE SUMMARY</b>	
<p>Servicios a la Navegación en el Espacio Aéreo Mexicano (SENEAM), as the provider of aeronautical meteorological services for the Mexican State, has established a Meteorological Watch Office in Tulum (MWO), Quintana Roo. Due to its geographical location, it is strategically positioned to support regional operational collaboration and coordination, training activities, information and data exchange, as well as knowledge and technology transfer with States in the Region. Accordingly, SENEAM promotes and makes the TULUM MWO available to the States of the Region to undertake harmonized collaborative work, operational coordination, knowledge and technology transfer, information and data exchange, and regional capacity-building activities.</p>	
<b>Action:</b>	As presented in paragraph 4
<i>Strategic Objectives 2026-2050:</i>	<ul style="list-style-type: none"> <li>• Every flight is safe and secure</li> <li>• Aviation is environmentally sustainable</li> <li>• Aviation delivers seamless, accessible, and reliable mobility for all</li> <li>• No country left behind</li> <li>• The International Civil Aviation Convention and Other Treaties, Laws and Regulations Address All Challenges</li> <li>• The Economic Development of Air Transport Assures the Delivery of Economic Prosperity and Societal Well-Being for All</li> </ul>
<i>References:</i>	<ul style="list-style-type: none"> <li>• Annex 3 — Meteorological Service for International Air Navigation (Twentieth Edition, July 2018)</li> <li>• Third North America, Central America and Caribbean Working Group Rapporteur Meeting (NACC/WG/RAP/03), March 2025</li> <li>• Tenth North America, Central America and Caribbean Working Group Meeting (NACC/WG/10), September 2025 Third Aeronautical Meteorology Implementation Task Force Meeting (MET/TF/3), December 2025.</li> </ul>

## **1. Introduction**

1.1 Mexico, through SENEAM, is implementing its Aeronautical Meteorological Service Modernization and Strengthening Project, in collaboration with and with advisory support from national and international institutions and organizations, including the International Civil Aviation Organization (ICAO) and the World Meteorological Organization (WMO). One of the project actions is the establishment of new Meteorological Watch Offices (MWOs), including the TULUM MWO located in Quintana Roo, in the southeast of Mexico. This MWO was strategically sited with, among its objectives, the monitoring of tropical cyclones that may affect aviation within the Mexico Flight Information Region (FIR).

## **2. Analysis and discussion**

2.1 In coordination with the International Civil Aviation Organization (ICAO) and the World Meteorological Organization (WMO), SENEAM intends to consolidate cooperative efforts among States in the Region. This initiative derives from actions promoted under the “Work Programme and Priorities for Aeronautical Meteorology”, presented in Study Note 16 (NE/16) of the Third North America, Central America and Caribbean Working Group Rapporteur Meeting (NACC/WG/RAP/03) held in March 2025, as well as in Study Note 11 (NE/11) of the Tenth Meeting of the North America, Central America and Caribbean Working Group (NACC/WG/10) held in September 2025, during which a “Declaration of Intent for Cooperation in Meteorology for the North America and Caribbean Region” was addressed, and the interest expressed at the Third Aeronautical Meteorology Implementation Task Force Meeting (MET/TF/3) of the NACC/WG in December 2025.

2.2 In light of the above, and with the objective of strengthening collaborative work among aeronautical meteorology experts and supporting regional capacity-building, SENEAM encourages States in the Region to collaborate through the TULUM Meteorological Watch Office (MWO/Tulum), in order to contribute to operational safety, harmonize operational and technical work between adjacent Flight Information Regions (FIRs), and foster the exchange of knowledge, technology and data within the Region.

2.3 Within the Region, there are aeronautical meteorology topics that can be addressed in a coordinated manner, such as compliance with Basic Building Blocks (BBB), the adoption of Doc 10157 (PANS-MET) and Amendment 82 to ICAO Annex 3, among others. These topics could be advanced collaboratively through the TULUM Meteorological Watch Office with the participation of State experts.

2.4 One of the topic of particular importance for Mexico and other States in the Region is the adoption and implementation of the IWXXM format for aeronautical meteorology. This has begun to progress in some States through collaboration between MET/TF and COM/TF under the NACC/WG; therefore, the TULUM Meteorological Watch Office represents an opportunity to further support this work.

2.5 Additional opportunities for collaboration exist by linking this initiative with ongoing work under ICAO and WMO working arrangements, for example through engagement with the WMO Expert Team on Aviation Services (ET-AVI).

## **3. Conclusions**

3.1 SENEAM makes the TULUM MWO available to all States in the Region, including installed aeronautical meteorology capabilities, to conduct coordinated operational work, training, knowledge and technology exchange, and to support the implementation of ICAO and WMO normative topics.

3.2 In Study Note 11 (NE/11) of the Tenth Meeting of the North America, Central America and Caribbean Working Group (NACC/WG/10), held in September 2025, potential topics were presented through which each State could contribute in accordance with its expertise. These topics are illustrative and not exhaustive, and include the following:

- ✓ Training in aeronautical meteorology;
- ✓ Data exchange from surface and upper-air observation networks, remote sensing, numerical modelling, among others;
- ✓ Technology exchange and technological developments, such as numerical atmospheric modelling;
- ✓ Collaboration between operational meteorologists and technology developers;
- ✓ Cooperation under common programmes between the International Civil Aviation Organization (ICAO) and the World Meteorological Organization (WMO);
- ✓ Exploring communications infrastructure to support data transport; and
- ✓ Other relevant topics.

#### **4. Suggested actions**

4.1 States in the Region are invited to express their interest in collaborating through the TULUM Meteorological Watch Office (MWO).

4.2 States interested in collaborating through the TULUM MWO may propose specific topics of regional interest, with the objective of identifying common topics to be addressed in accordance with operational needs.

4.3 As an initial priority topic, States in the Region may consider the adoption and implementation of the IWXXM format for aeronautical meteorology, in coordination with MET/TF and COM/TF.

4.4 Organize operational on-the-job attachments for aeronautical meteorology specialists at the TULUM MWO.

4.5 Establish technical, scientific and operational forums on aeronautical meteorology.

4.6 Develop a letter of intent among interested States in the Region to participate in collaboration through the TULUM Meteorological Watch Office (MWO/Tulum).