

COMMUNITY - PORT RESILIENCY PROGRAM (C-PreP)

Merida, Mexico, March 10-11, 2020

Virtual Seminar Dominican Republic, June 17 -18, 2020

REPORT

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I. Background

a) C-PreP Development - Growing out of challenges and lessons learned in Haiti after the 2010 earthquake, the Port Resiliency Program (PReP) began in 2012 as an effort to improve the resiliency of airports and seaports in disaster-prone areas of the Caribbean and Latin America. With strong sponsorship and support from FedEx and Miami International Airport (MIA), the program was pilot tested at Las Americas International Airport in Santo Domingo, the Dominican Republic, in 2013. Lessons learned there were applied to create PReP 2.0 that was successfully applied in 2015 at Juan Santamaria International Airport in San Jose, Costa Rica. The fully operational PReP program was delivered to Jamaica's three international airports in July 2016. In early 2017 a PReP Workshop was delivered to the Merida International Airport and its parent company Aeropuertos del Sureste (ASUR) including five other international airports in Mexico: Cancún International Airport, Cozumel International Airport, Villahermosa International Airport, Puerto Vallarta International Airport, and Mazatlán International Airport. Subsequently. On 2017 the government of Saint Vincent and the Grenadines requested the implementation of a PReP Workshop to improve the emergency and resiliency plans of the Argyle International Airport. By the mid of 2018 three workshops were implemented in three vulnerable Caribbean islands: Antigua & Barbuda, St. Lucia and Dominica. During that year, the program developed to a more comprehensive approach emphasizing the participation of the other local stakeholders and communities, becoming the Community Port Resiliency Program (C-PReP). In 2019, C-PReP carried out two seminars: one in Merida, Yucatan, Mexico and one in San Juan, Puerto Rico.



Inauguration of the 2020 Merida "XV International Hurricane Seminar"

b) Vulnerability of the LAC and the Caribbean Region – Countries in the Latin America and the Caribbean (LAC) region experience a range of natural hazards, including droughts, earthquakes, floods, forest fires, hurricanes, landslides, tsunamis, and volcanoes. El Niño and La Niña phenomena occur periodically, exacerbating the impacts of hydrometeorological events in the LAC region. Some LAC countries have special vulnerabilities as they lie directly in the path of tropical hurricanes, including Puerto Rico, the Dominican Republic and the Yucatan Peninsula of Mexico. Over the next few decades LAC countries will continue to be hit by severe hurricanes and other natural disasters. Inadequate disaster risk management practices compound the humanitarian and economic cost of damage from natural disasters.



Panelist at the 2020 Merida: "XV International Hurricane Seminar"

Natural disasters in the Caribbean are becoming more ferocious and frequent even relative to small states. The devastations of Category 5 hurricanes Maria and Irma (both in September 2017) demonstrated how powerful storms can lead to widespread destruction, loss of life, and weaker economic growth prospects.

c) C-PreP 2020 Workshops - As a follow up and continuous monitoring of the disaster response capacity of C-PreP partners and focused region, in 2020, OAA/ART carried out the following C-PreP Workshops:



Screen Shot of the participants of the C-PreP 2020 Virtual Seminar for the Dominican Republic

- On March 10 & 11, the “XV Seminario Internacional de Huracanes/XV International Hurricane Seminar” in Merida, Mexico in close collaboration with ASUR (Aeropuertos del Sur de Mexico)
- On June 17 & 18, the Dominican Republic Virtual Seminar: “Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic”, in close collaboration with AERODOM (Aeropuertos Dominicanos Siglo XXI)

This report provides information about the development and implementation of the above-mentioned 2020 C-PreP Workshops.

d) Location Vulnerability Overview

Merida, Yucatan, Mexico

There’s no getting away from the fact that many parts of Mexico susceptible to hurricanes. México is particularly vulnerable to hurricanes on both its shores. Hurricanes are an accepted part of the climate that they have their own seasons: May 15 to November 30 in the Pacific and June 1 to November 30 in the Atlantic. The effects of these powerful storms can be devastating and tragic¹. Because of the location of the Yucatan Peninsula, conveniently juxtaposed between the Caribbean and the Gulf of Mexico, it is highly probable that at some point between June and November, there is high possibility of a hurricane alert around the region of Merida.



¹ <https://mexiconewsdaily.com/news/hurricane-history-mexicos-worst/>

Dominican Republic

The Dominican Republic is considered a hotspot for natural disasters. The country is exposed to droughts, earthquakes, flooding, hurricanes, landslides, temperature extremes (heat waves), tropical storms, and tsunamis. Climate change is expected to increase the risk and intensity of excess rainfall, storm surges, and hurricanes in the Caribbean, with relatively higher impacts in the Dominican Republic². Dominican Republic has been in the hurricane eye: 76 reports show the vulnerability of the island of Hispaniola that is divided with Haiti. Between the different categories, winds and central pressure, they were no more than 44 hurricanes that affected houses and entire districts, whereas 32 tropical storms affected the country³.

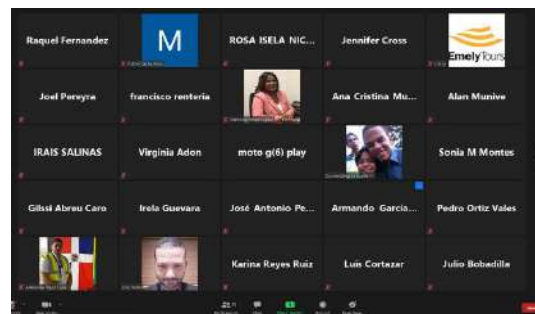


II. C-PRReP Basics

The C-PRReP program brings together key stakeholders, including senior policymakers, public, private, and multilateral development partners, to explore incentives to shift the focus of policies towards building resilience and innovative disaster risk financing policies and instruments that would help in this regard.

C-PRReP has three overarching goals:

- To speed an airport's ability to restore function to allow humanitarian aid as quickly as possible after a disaster strike.
- To speed a region's, an island's, or a nation's economic recovery by restoring full airport function as quickly as possible.
- To reconcile these two goals so that the benefits of both are maximized and conflicting demands for the use of a recovering airport are minimized.

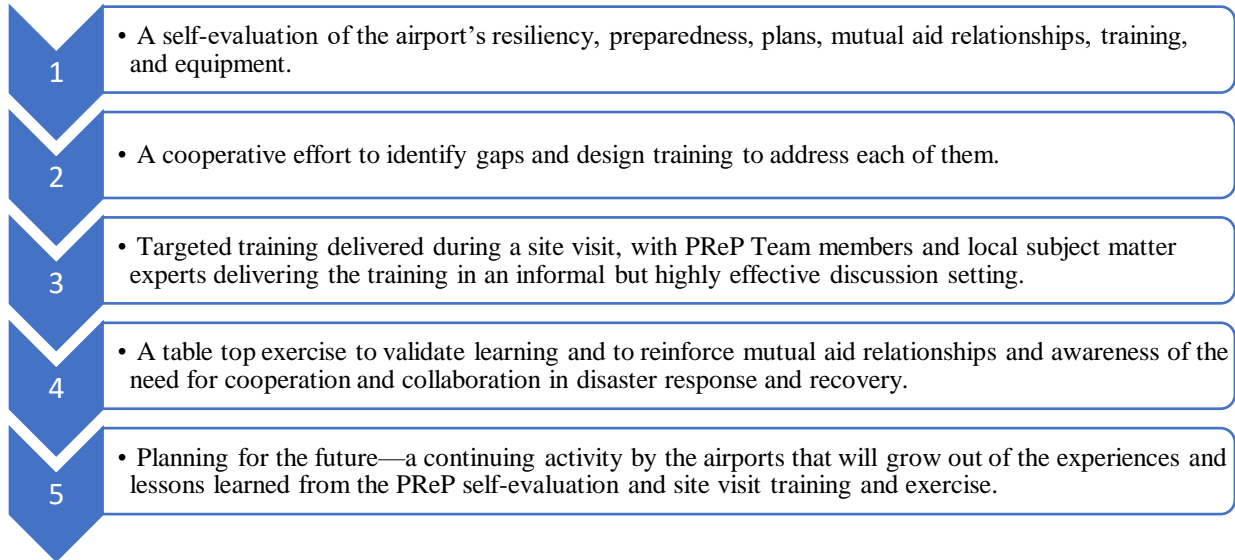


Screenshots of some of the participants of the 2020 C-PRReP Virtual Seminar

² <https://www.gfdrr.org/en/dominican-republic>

³ <https://www.dominican-republic-live.com/dominican-republic/weather/hurricane-history-dominican-republic.html>

In order to achieve these goals, C-PReP engages in a highly collaborative and interactive process with the airports that normally includes five steps:



III. Main C-PReP partners, collaborators and experts.

Thanks to the support and partnership with FedEx, in 2020 OAA/ART was able to carry out two C-PReP Workshops in close collaboration with two main partners:

1. ASUR (Aeropuertos del Sur de Mexico)

ASUR is a Mexican leading international airport operator with a portfolio of concessions to operate, maintain and develop 16 airports in the Americas. This comprises nine airports in southeast Mexico (Merida, Cozumel, Villahermosa, Oaxaca, Veracruz, Huatulco, Tapachula, Minatitlan, and Cancun, the most important tourist destination in Mexico).

ASUR also has airport concessions in the Caribbean and Latin America, and six airports in northern Colombia, including Medellin international airport, the second busiest in Colombia. ASUR is also a partner in Aerostar Airport Holdings, LLC, operator of the Luis Muñoz Marín International Airport serving the capital of Puerto Rico, San Juan. ASUR was the first airport group in the world to be traded simultaneously in the New York Stock Exchange (NYSE) and in the Bolsa Mexicana de Valores (BMV). ASUR is one of the top four emerging market companies in the transportation and transportation infrastructure sector included in the Dow Jones Sustainability Emerging Markets Index.

<http://www.asur.com.mx/>



2. AERODOM (Aeropuertos Dominicanos Siglo XXI)

Dominican Airports Siglo XXI (Aerodom) has been a part of VINCI Airports worldwide airport platform since April 2016. It manages and operates six airports in the Dominican Republic, under a concession contract granted by the State, which runs until 2030. Airports include: the International Airports of the Americas, José Francisco Peña Gómez, in Santo Domingo; President Dr. Joaquín Balaguer, in Santo Domingo Norte; Gregorio Luperón, in Puerto Plata; María Montez, in Barahona and President Juan Bosch in the province of Samaná; in addition, the Arroyo Barril Aerodrome, also located in Samaná. Aerodom handles an annual average of 5 million passengers in some 76,610 aircraft movements and through its airport network 49 airlines connect the Dominican Republic with 58 cities in the world.

<http://www.aerodom.com/app/do/frontpage.aspx>



The "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar" (in Merida, Mexico) was carried out in close coordination and with the leadership of ASUR. This seminar was under the auspices of the "Center for International Formation of Authorities and Leaders" (CIFAL) Merida of the United Nations Institute for Training and Research (UNITAR).

OAA/ART participated with a team of experts from the C-PreP team and included the expertise of AERODOM partners. The cluster of experts included:

- As part of the C-PreP Team: Maricarmen Estrada, Program Director, Outreach Aid to the Americas, OAA/ART
- As part of the C-PreP Team: Carlos Rodoli, Director of AERODOM and La Isabella International Airport, Dominican Republic.
- As part of the C-PreP Team: Manuel Real, Corporate Manager of Rescue and Firefighting AERODOM, Dominican Republic.



C-PreP partners, AERODOM and ASUR representatives, at the 2020 Merida: "XV International Hurricane Seminar"

- Lixion Avila, Senior Specialist/National Oceanic and Atmospheric Administration/NOAA.
- David Camacho Salazar, Manager of Mexican Airforce (FAM) Meteorological Service
- Omar Garcia Conception, Investigative Professor of the Institute of Astronomy and Meteorology at the University of Guadalajara.
- Natalia Almaguer, Head of the Department of Attention to Citizens of the American Consulate, American Embassy.
- Francisco Renteria Sierra, Short Messages Services (SMS) and Emergency Response Manager
- Erik de Leeuw, Possehl Speziabau GMBH
- Jorge Ramírez Capetillo, Head of the Federal Electricity Commission (CFE), Rules and Procedures Office.
- Ada Monzón, journalist, meteorologist, and entrepreneur, Puerto Rico.



C-PreP presentation at the 2020 Merida: "XV International Hurricane Seminar"

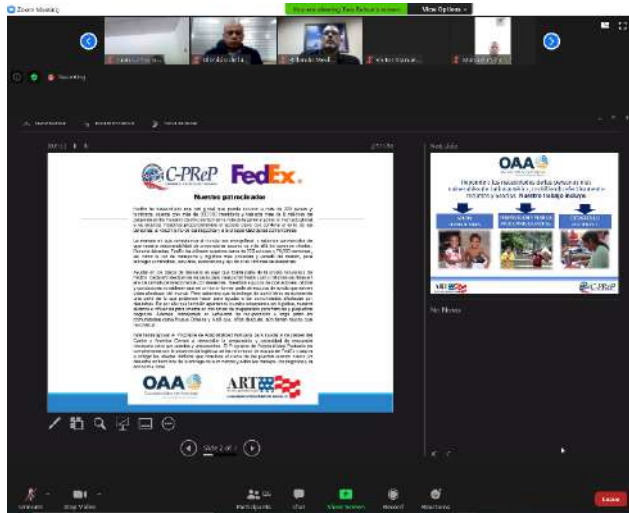
The Dominican Republic Virtual Seminar: *"Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"* was carried out in close collaboration with AERODOM (Aeropuertos Dominicanos Siglo XXI). OAA/ART coordinated the organization and planning of the event with the support of AERODOM, including the identification and selection of the main topics to be discussed, the format of the event, the logistics and the identification and invitation to organizations to be invited and expert speakers. The cluster of expert speakers included two representatives of FedEx, as shown in the list of speakers below (See Annex A for Speakers Short Biographies):



Screen Shot of the inauguration of the 2020 C-PreP Virtual Seminar

- Sonia Montes, FedEx Managing Director – LAC Sales.
- Rolando Medina, Director of Operations Puerto Rico and the Caribbean - Latin America and the Caribbean Division of FedEx Express.
- As part of the C-PreP Team: Teo Babun, President and CEO of OAA/ART
- As part of the C-PreP Team: Maricarmen Estrada, Program Director, Outreach Aid to the Americas, OAA/ART

- As part of the C-PreP Team: Ricardo Garcia, retired captain Miami-Dade Fire Rescue Department.
- As part of the C-PreP Team: Carlos Rodoli, Director of AERODOM and La Isabella International Airport, Dominican Republic.
- As part of the C-PreP Team: Manuel Real, Corporate Manager of Rescue and Firefighting AERODOM, Dominican Republic.
- Monika Infante, AERODOM General Director.
- Brigadier General Luis M. Mendez, General Director of the Emergency Operations Center (COE), Dominican Republic.
- Coronel Edwin Olivares, Emergency Operations Center (COE) Operations Director, Dominican Republic.
- Eugenio Perez Luengo, Director of Las Américas Airport, AERODOM, Dominican Republic.
- Francisco Fermín Holguín Castillo, Meteorologist and Director of the Risk Management Directorate of the Ministry of Public Works and Communications (MOPC), Dominican Republic.
- Jose Luis Cruz Raposo, Director of Risk Management and Disaster Assistance at the Ministry of Public Health, Dominican Republic.
- Anibal Piña Deputy Executive Director, Port Authority, Dominican Republic.



Screen shot of OAA/ART Presentation at the 2020 C-PreP Virtual Seminar



Participants at the C-PreP 2020 Merida Seminar

The objective of both C-PreP workshops was to provide disaster resilience and emergency management training to key airport personnel, government agencies, NGOs, and other key stakeholders; thus, expecting to save and protect the life of about millions of people living in Mexico and in Dominican Republic.

IV. C-PreP Focus



Director of ASUR presenting at the 2020 Merida Seminar

The C-PreP team was engaged to deliver a two-day Seminar in Merida and a two (half-day) Virtual Seminar for the Dominican Republic. Both seminars focused on airport's hurricane preparedness and response, to improve the resiliency of their disaster planning, to ensure optimal interoperability and coordination among agencies and other resources in the event of a crisis.

Additionally, the Virtual Seminar for the Dominican Republic also considered the development of the Coronavirus (COVID-19)

crisis. The world is decisively facing the COVID-19 pandemic, taking lives, seriously affecting the functioning of society, families and individuals; and severely damaging the economy on a national and global scale. In the midst of this battle, vigilance against the forces of nature including hurricanes, floods, tropical storms and earthquakes cannot be neglected, which will not stop during the current world emergency. A disaster produced by any of these extreme forces of nature can hinder the current effort against COVID-19, aggravating the situation due to the interruption of essential services, including airports. Therefore, OAA/ART and AERODOM considered crucial to develop a seminar that will help implement measures to address both challenges, reinforcing disaster prevention measures. Among other topics, the Seminar examined the new reality of airport operations, international health regulations and epidemics, while taking a look at the 2020 hurricane season.

For a detailed list of topics covered in each Seminar, see Annex B: Agenda of the Merida: "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar", and Annex C: Agenda of the Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"

V. C-PreP Preparation Activities.

The C-PreP team held several planning meetings, as well as conference calls with ASUR and AERODOM representatives to better understand the context of the seminars as well as coordinate logistical arrangements. The C-PreP team, ASUR and AERODOM formed working planning groups and discussed plans for the organization of the seminars/workshops and agreed on the dates, location/format, list of potential participants and speakers, and general logistics, all of this in close coordination and collaboration with the Government of Mexico and the Government of the Dominican Republic respectively.

The C-PreP Team gathered information on the background of Mexico and Dominican Republic airports, their conditions and the preparation and response for hurricanes, and in the case of the Dominican Republic reviewed the prospect of the hurricane season and the COVID-19 pandemic in order to adapt speaker’s presentations, training materials and workshop exercises according to the needs and realities of the participating airports within this context.



C-PreP Team Member (AERODOM speaker) at the 2020 Merida Seminar: "XV International Hurricane Seminar"

Additionally, in the case of the Dominican Republic, originally OAA/ART and AERODOM had started conversations to carry out the C-PreP seminar in the Dominican Republic. However, due to the travel and large group meeting restrictions of COVID-19, OAA/ART and AERODOM decided to carry out the C-PreP seminar in a virtual mode, utilizing the Zoom platform. The preparation of this new C-PreP modality included the creation of a Zoom corporate account, the creation of the Zoom meeting, the description of the event, its graphic invitation, and a Guide for the Speakers (See Annex D) of the seminar to guide the technical requirements, presentations, and logistics for the implementation of the Seminar in the Zoom platform.

Based on the above mentioned preparations, OAA/ART together with ASUR and AERODOM, sent out the invitations to potential participants of the seminars (See Annex E: Invitation the Merida: "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar", and Annex F: Invitation for the Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic")

VI. C-PreP Seminars General Information

a) Summary General Information:

<i>C-PreP Merida "XV International Hurricane Seminar"</i>	
Country	Merida, Mexico
Main Airport Name	Aeropuerto Internacional Manuel Crescencio Rejón (MID) Managed by Aeropuertos del Sur de Mexico (ASUR)
Venue	Hotel Fiesta Americana, Merida, Mexico
Dates	March 10 -11, 2020

*C-PreP Virtual Seminar for the Dominican Republic
“Preparación ante Desastres Naturales en Tiempo de Pandemia”*

Country	Dominican Republic
Main Airport Name	La Isabela International Airport (JBQ) Managed by AERODOM
Modality	Virtual Seminar through Zoom Platform
Dates	June 17 – 18, 2020

- b) Location of participating Airports** – Two C-PreP seminars were developed in early and mid-2020: one in Merida, Yucatan, Mexico; and one a virtual platform for the Dominican Republic, respectively. The represented airports represented airports with high traffic flow located in geographic regions with disaster vulnerabilities.

A total of 32 airports participated in the “XV Seminario Internacional de Huracanes” in Merida, Mexico, 25 from Mexico and 7 from other countries, including the Dominican Republic, Honduras, Panama, El Salvador, and the United States, as shown below:

List of participating airports C-PreP Merida 2020.

No.	Name of Airport		Location
1	Aeropuerto Internacional Manuel Crescencio Rejón	MID	Merida, Yucatan, Mexico
2	Aeropuerto Internacional Licenciado Gustavo Díaz	PVR	Puerto Vallarta, Jalisco, Mexico
3	Aeropuerto Internacional Benito Juárez	MEX	Ciudad de Mexico, Mexico
4	Aeropuerto Internacional Carlos Rovirosa Pérez	VSA	Villa Hermosa, Tabasco, Mexico
5	Aeropuerto Internacional Playa de Oro	ZLO	Manzanillo, Colima, Mexico
6	Aeropuerto Internacional Ingeniero Alberto Acuña	CPE	Campeche, Campeche, Mexico
7	Aeropuerto Internacional General Rafael Buelna	MZT	Mazatlan, Sinaloa, Mexico
8	Aeropuerto Internacional de Los Cabos	ATA	Los Cabos, Baja California, Mexico
9	Aeropuerto Internacional de Cancún	CUN	Cancun, Quintana Roo, Mexico
10	Aeropuerto Internacional de Cozumel	CZM	Cozumel, Quintana Roo, Mexico
11	Aeropuerto Internacional Manuel Márquez de León	LAP	La Paz, Baja California, Mexico
12	Aeropuerto Internacional Miguel Hidalgo y Costilla	GDL	Guadalajara, Jalisco, Mexico
13	Aeropuerto Internacional de Chetumal	CTM	Chetumal, Quintana Roo, Mexico
14	Aeropuerto Internacional General Heriberto Jara	VER	Veracruz, Veracruz, Mexico
15	Aeropuerto Internacional Xoxocotlán	OAX	Oaxaca, Oaxaca, Mexico
16	Aeropuerto Internacional de Ciudad del Carmen	CME	Ciudad del Carmen, Campeche, Mexico
17	Aeropuerto Internacional Ponciano Arriaga	SLP	San Luis Potosi, San Luis Potosiu, Mexico
18	Aeropuerto Internacional de Tapachula	TAP	Tapachula, Chiapas, Mexico
19	Aeropuerto Internacional de Bahías de Huatulco	HUX	Bahias de Huatulco, Oaxaca, Mexico
20	Aeropuerto Internacional General Mariano Escobedo	MTY	Monterrey, Nuevo Leon, Mexico
21	Aeropuerto Internacional Amado Nervo	TPQ	Tepic, Nayarit, Mexico
22	Aeropuerto Internacional General Servando Canales	MAM	Matamoros, Tamaulipas, Mexico

23	Aeropuerto Internacional General Juan N. Álvarez	ACA	Acapulco, Guerrero, Mexico
24	Aeropuerto Internacional de Bachigualato	CUL	Culiacan, Sinaloa, Mexico
25	Aeropuerto Internacional de Palenque	PQM	Palenque, Chiapas, Mexico
26	Aeropuerto Internacional de Comalapa	SAL	San Luis Talpa, El Salvador
27	Aeropuerto Internacional Javier Balaguer (La Isabela)	JBQ	Santo Domingo, República Dominicana
28	Aeropuerto Tonconotin	TGU	Tegucigalpa, Honduras
29	Aeropuerto Internacional Ramón Villeda Morales	SAP	San Pedro Sula, Honduras
30	Aeropuerto Internacional Tocumen	PTY	Panama, Panama
31	Aeropuerto Internacional Los Angeles	LAX	Los Angeles, Estados Unidos
32	Aeropuerto Internacional de Miami	MIA	Miami, Estados Unidos

Location of participating Mexican airports C-PReP Merida 2020.



Key Stakeholders at the 2020 Merida Seminar

A total of 12 airports participated in the C-PRReP Virtual Seminar “Preparación ante Desastres Naturales en Tiempo de Pandemia, 7 international airports in the Dominican Republic, and 6 airports from Mexico, as shown below:

List and location of airports participating in C-PRReP Virtual Seminar 2020.



Mexico	Dominican Republic
MID - Aeropuerto Internacional Manuel Crescencio Rejón (Merida)	SDQ – Las Americas International Airport.
MEX - Aeropuerto Internacional Benito Juárez (Ciudad de Mexico)	JBV – Javier Balaguer (La Isabella) International Airport.
CUN -Aeropuerto Internacional de Cancún (Cancun)	BRX – Maria Montes International Airport (Barahona)
ATA - Aeropuerto Internacional de Los Cabos (Los Cabos)	LRM – La Romana International Airport
ACA - Aeropuerto Internacional General Juan N. Álvarez (Acapulco)	POP – Gregorio Luperon International Airport (Punta Plata)
VER - Aeropuerto Internacional General Heriberto Jara (Veracruz)	AZS – Juan BoschEl Catey International Airport (Samana)
	STI – Cibao International Airport (Santiago)

c) C-PRReP Team:

The seminars included the participation of the following C-PRReP Team:

- OAA Team:
 - Dr. Teo A Babun, President & CEO.
 - Mrs. Maricarmen Estrada, Program Director.
- Carlos Rodoli, Director of La Isabella International Airport AERODOM, Dominican Republic.
- Manuel Real, Corporate Manager of Rescue and Firefighting AERODOM, Dominican Republic.
- Ricardo Garcia, retired captain Miami-Dade Fire Rescue Department (for the Dominican Republic Virtual Seminar.)



OAA/ART Presenting at the 2020 Merida Seminar

d) People reached:

A total of 285 people participated in the two C-PReP seminars/workshops: 210 in C-PReP Merida and 207 in C-PReP Dominican Republic Virtual Seminar. In the case of the Virtual seminar, 42 people participated only in Day 1 of the seminar, 24 in Day 2, and 141 in both days. List of participants can be found in Annex G: List of Participants in the 2020 C-PReP Merida Seminar, and Annex H: List of participants of the 2020 C-PReP Virtual Seminar. Participants of the seminars represented six countries as follows:

C-PReP 2020 Seminars - Number of Participants

No.	Countries Represented	Merida C-PReP	DR C-PReP
1	Mexico	197	60
2	Dominican Republic	2	136
3	United States	4	11
4	Honduras	2	0
5	Panama	4	0
6	El Salvador	1	0
	TOTAL	210	207

Participants represented a wide range of stakeholders including officials and representatives from management agencies, airports, airlines, media and press, federal agencies, and academia. Key stakeholders represented in the seminars included:

- Aeropuertos Dominicanos Siglo XXI, AERODOM.
- Aeropuertos del Sur de Mexico, ASUR.
- National Oceanic and Atmospheric Administration/NOAA.
- Aeropuertos y Servicios Auxiliares (ASA)
- Airports Council International Latin America-Caribbean/ACILAC
- Institute of Astronomy and Meteorology at the University of Guadalajara.
- Federal Aviation Administration/FAA.
- Sanidad Internacional, Mexico.
- Mexico National Airforce.
- Secretaria de Marina, Mexico.



Representatives of the Dominican Republic Emergency Operations Committee (COE) participating in the C-PReP 2020 Virtual Seminar

- Mexico General Directorate of Civil Aviation (DGAC).
- Mexico Air Space Navigation Services (SENEAM).
- Mexico Secretariat for Tourism Promotion (SEFOTUR)
- Medical Services of Merida.
- Mexico National Water Commission, Merida.
- Mexico Evacuation Brigade.
- Municipal Coordination Office for Civil Protection and Firefighters of Merida.
- Security services agencies of Mexico.
- Directors of Civil Protection Offices of several Mexico cities.
- Estafeta (logistics company/private sector Mexico)
- BGS Technic Mexico (Private Sector)
- Hampton Inn, Mexico (Private Sector)
- American Embassy.
- German Consulate in Merida.
- Interjet (Airline).
- Volaris (Airline).
- Aeromexico (Airline).
- American Airlines (Airline).
- Turpial Airlines (Airline).
- Civil Aviation Board, Dominican Republic.
- Direccion General de Aduanas, Dominican Republic.
- Delegacion Portuaria, Dominican Republic.
- Centro de Operaciones de Emergencias/COE, Dominican Republic.
- Cuerpo Especializado en Seguridad Aeroportuaria y de la Aviación Civil (CESAC), Dominican Republic.
- Ministry of Public Health, Dominican Republic.
- Oficina Nacional de Meteorología (ONAMET), Dominican Republic.
- Instituto Dominicano de Aviación Civil (IDAC), Dominican Republic.

In addition, millions of people in Mexico and the Dominican Republic have been indirectly benefited through the 2020 C-PreP seminars, as the program aims to save lives of the communities represented in the airports and organizations participating in the events. C-PreP included two full day training in the case of Merida and a two afternoons training in the case of the virtual Seminar for the Dominican Republic. In the case of the Dominican Republic,

special attention was given to measures and protocols for the management of natural disaster emergencies considering the context and reality of the COVID-19 pandemic, identifying training



OAA/ART moderating the 2020 C-PreP Virtual Seminar

needs while analyzing their emergency disaster management plans. The seminars were developed with a customized training curriculum to better fit the needs of airports in Mexico, the Dominican Republic and the other participating countries.

VII. C-PreP Seminars/Workshops Development.



AERODOM and ASUR representatives, main partners of C-PreP for the 2020 seminars



NOAA Speaker at the 2020 Merida Seminar

All planned activities were successfully implemented. The C-PreP seminars/workshops were carried out as planned: March 10 -11, 2020 in Merida, Mexico; and June 17-18, 2020 virtually for the Dominican Republic and other participating countries.

The seminars provided participants with a broad range of topics related to emergency preparedness and response. In the case of the Merida Seminar, topic included: Challenges in Hurricane Forecasting; Resilience to Disasters at the Airports through Community Engagement, Emergency Planning for Airlines, Alternate Airports During the Emergency, How to Avoid Mistakes in the Line of Communication with the Essential Employee, Emergency Preparation, and Recuperation and Action. In the case of the Virtual Seminar, topics included: Components of a Hurricane Manual for Airports; Post-Disaster Actions in Airports, Taking Care of Essential Personnel and Families, The New Reality (COVID-19) of Airport Operations, and International

Health Regulations and Epidemics. A copy of the agendas of the Seminars can be found in Annex B: Agenda of the Merida: "*XV Seminario Internacional de Huracanes/XV International Hurricane Seminar*", and Annex C: Agenda of the Virtual Seminar: "*Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic.*"

Each presentation and discussion in the seminars offered an opportunity for questions and/or comments by the attendees. During the presentations, several key gaps were identified as priority to include in each organization's emergency and preparedness plan.

In the case of the Virtual Seminar for the Dominican Republic, it included the development of a Table Top Exercise (TTX) simulating a hurricane approaching the island and with the consideration measures and protocols to manage emergencies considering the reality and context of COVID-19. The TTX was conducted the second afternoon of the virtual seminar with the objective to put in practice and assess learning outcomes and airport/government /community readiness to deal with a disaster of significant proportions during the coronavirus pandemic. Usually the TTX is carried out through group discussions. However, due to the virtual format, the planning team of OAA/ART and AERODOM carried out the TTX with the participation of key expert panelists, who provided their recommendation and comments of each TTX scenario based on their knowledge and expertise. Expert TTX panelist included representatives of emergency operations, airports, meteorology, and public health, as follows:

1. Panelist 1: Coronel Edwin Olivares, Emergency Operations Committee (Comite de Operaciones de Emergencias/COE.)
2. Panelist 2: Lic. Carlos Rodoli/Manuel Real, AERODOM Airports.
3. Panelist 3: Ing. Francisco Holguín, Meteorologist.
4. Panelist 4: Dr. José Luis Cruz, Ministry of Public Health (Ministerio de Salud Publica/MSP.)

The purpose of the exercise was to present a real-life scenario to identify any gaps in the process and procedures based on the expert opinions of the participating panelists, determining the effectiveness of responses and interactions between and among the different agencies and/or organizations represented in the virtual seminar.

In general terms, OAA/ART confirms that all C-PreP planned activities were implemented on target and successfully completed according to project timeline. Contingencies are not recorded in the C-PreP program files.



Screen shot of one of the presentations at the 2020 C-PreP virtual Seminar



Discussions at the 2020 Merida Seminar with key experts and stakeholders

VIII. Monitoring and Evaluation of Impact and Results



Panoramic view of the 2020 Merida: "XV International Hurricane Seminar"

C-PRReP implementation contributed to build the disaster preparedness and resilience of participants by: 1. contributing to identify and address weaknesses and build on their existing strengths in order to improve their resiliency and disaster response. Participants were presented with risks self-evaluation approaches as well as identification of gaps in preparedness and disaster resiliency, 2. Assisting government; communities and stakeholders enhanced existing societal and organizational strengths and minimize weaknesses through risk assessment.

In addition, in the case of the Merida Seminar, C-PRReP was able to improve the communication among stakeholders. The C-PRReP team focused their presentations and panel discussions with an approach that provided the participants with the opportunity to share their input and views from the emergency response and resilience perspective. The initiative also fostered networking and collaboration among airports for disaster planning and emergency response, as it included the active participation of representatives from different airports in Mexico and in other countries.

Both seminars had the participation of over 200 (210 in the Merida Seminar and 207 in the Virtual Seminar for the Dominican Republic) key personnel of ports, airports, government representatives, NGOs, airlines, logistics firms, and other stakeholders:



View of participants of the 2020 Merida: "XV International Hurricane Seminar"

- Number of participants trained in the C-PreP seminars: 417 participants \ (*) some participated in both seminars.

Indicator	C-PreP Merida	C-PreP Virtual Seminar for the Dominican Republic	Total
<i>Number of participants trained</i>	210	207	417(*)

- Number of airport(s) participating in the C-PreP seminars/workshop: 32 airports.

Indicator	C-PreP Merida	C-PreP Virtual Seminar for the Dominican Republic	Total
<i>Number of airports participating</i>	32	12	39 (*)

- Number of stakeholders (local and national emergency agencies, community-based organizations, airlines, etc.) participating in the C-PreP seminars/workshop: 129 stakeholder organizations.

Indicator	C-PreP Merida	C-PreP Virtual Seminar for the Dominican Republic	Total
<i>Number of stakeholders participating</i>	99	NA	99

In addition, as part of the monitoring and evaluation efforts of the C-PreP program, ASUR and AERODOM with the support of OAA/ART will carry out follow up virtual meetings with the participating airports in order to ensure that these airports have applied the lessons learned and key recommendations of C-PreP seminars/workshop, and to identify special areas of support needed to improve their disaster preparedness and response plans.

Some participants of the Merida Seminar, which was evaluated, provided the following feedback:

- “The Seminar was excellent”
- “The event was very helpful. I do not have additional recommendations”
- “Topics discussed were very comprehensive and practical at the same time”
- “Excellent and very good logistics and arrangements”
- “I liked the opportunity for questions and answers and comments after each presentation”
- “The TableTop Exercise was a great way to put into practice what we discussed theoretically”
- “I would like to have the opportunity to continue to participate in these seminars”
- “Consider providing more time for group discussions”

IX. Key Factors and Recommendations from Participants

Based on the feedback obtained from participants and the discussion with OAA/ART's partners (ASUR and AERODOM), below are some key factors that contributed to the success of the seminars include:

- Proper planning is crucial to ensure success of the seminars. Event planning involved going over all procedures, and logistics, equipment, team, speakers, agenda, materials, invitations, registrations, etc.
- Making the content of the event to the needs of the participants, including information that is relevant and that addresses gaps and needs while considering the context and reality faced by the participants and stakeholder organizations.
- Choosing a broad and qualified range of speaker experts, with the ability to effectively share their skills, knowledge and expertise with the participants.
- Good coordination, communication and engagement with local governments and key stakeholder agencies in each for both seminars.
- Active participation of seminar attendees, especially in the identification of gaps and preparedness/resilience actions (mainly for the Merida seminar). This includes involvement of key representatives of the governments, airlines, seaports/airports, fuel supply/utility companies.
- In the case of the Merida Seminar, generating discussion spaces contributed to a better involvement of participants, it is critical to listening first-hand concerns related to emergency response protocols, and other aspects. It helps to prepare participants for the TTX of a disaster scenario, as it requires a lot of participation.



Questions and Answers session at the 2020 Merida: "XV International Hurricane Seminar"

The evaluation filled out by participants of the Merida Seminar and comments provide by participants of the Virtual Seminar, included several actions identified as important recommendations for actions:

- Consider having arrangements and/or agreements with key stakeholders in place and before emergencies.
- Identify and communicate clearly with essential personnel, making sure that their families are taken of.
- Plan regardless of the hurricane season forecast.
- Improve preparedness checklists within emergency manuals.
- Understand the international sanitary regulations to deal with COVID-19 in airports and for first respondents.

- Plan for emergency materials and equipment should include consideration of COVID-19 preventive supplies.
- Obtain updated information of stakeholders and critical emergency organizations
- Consider the identification of substitutes and alternative personnel.
- Include the identification of alternative methods and equipment for communication and improve the functionality of current communication equipment.
- Incorporate coordination with alternative airports.
- Update Emergency Preparedness Plans based on the lessons learned from the seminar.
- Consider the importance of including post-disaster psychological support.
- Engage with other stakeholders in order to have a holistic plan including airports, airlines, and national office of disasters and other services (e.g. health, fire department, police).

X. Next Steps

Airports in the LAC and Caribbean region continue to contact C-PreP for continued support and to explore the possibility of carrying out future C-PreP seminar/workshops. This is the case for example of Guyana and Surinam. The C-PreP Team will continue to explore the possibility to carry out a C-PreP seminar/workshop in those countries.

XI. List of Annexes

Annex A - Speakers Short Biographies.

Annex B - Agenda of the Merida: "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar"

Annex C - Agenda of the Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"

Annex D – Speakers Guide for the C-PreP Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"

Annex E - Invitation the for the Merida; "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar"

Annex F - Invitation for the Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"

Annex G - List of Participant Merida: "XV Seminario Internacional de Huracanes/XV International Hurricane Seminar"

Annex H - DR 2020 Virtual Seminar: "Preparación ante Desastres Naturales en Tiempo de Pandemia/Preparedness for Natural Disasters in Time of Pandemic"