

REGIONAL FOCUS

Tercera Reunión Virtual el Comité de Revisión de Programas y Proyectos (CRPP) del GREPECAS (eCRPP/03)

Avances del Proyecto CADENA NE/02

Presentada por: Jamaica Civil Aviation Authority, Trinidad and Tobago Civil Aviation Authority, Empresa Argentina de Navegación Aérea (EANA), Empresa Cubana de Navegación Aérea (ECNA), Civil Air Navigation Services Organisation (CANSO), Corporación Centroamericana de Servicios Navegación Aérea (COCESNA), International Air Transport Association (IATA)

31 August to 1 September 2021

1. Introducción

RED DE INTERCAMBIO DE DATOS DE GESTIÓN DE FLUJO DE TRÁNSITO AÉREO PARA LAS AMÉRICAS DE CANSO (CADENA)



Propósito y objetivo de CADENA

- Intercambiar información operacional
 - Los participantes de CADENA están trabajando para intercambiar datos por medio del SWIM de la FAA
 - Aerolíneas, aeropuertos, y otros interesados tienen acceso a los datos
- Promover la conciencia situacional
- Incrementar la seguridad operacional
- Aumentar la eficiencia operacional

Participantes de los ANSPs en CADENA



- ANSA (Aruba)
- Caribbean Aviation Resilience and Recovery Group (CARRRG)
- COCESNA (Cenamer)
- UAEAC Colombia
- Costa Rica CAA
- DC-ANSP (Curaçao)
- **EANA (Argentina – CADENA Vice Chair)**
- Ecuador CAA
- ECNA (Cuba)
- FAA Space Operations Office
- FAA (ATCSCC, ZMA, SJU, ZNY, ZHU)
- **IDAC (Dominican Republic – CADENA Chair)**
- INAC (Venezuela)
- JCAA (Jamaica)
- MWCR (Grand Cayman)
- OFNAC (Haiti)
- SENEAM (Mexico)
- Trinidad and Tobago CAA

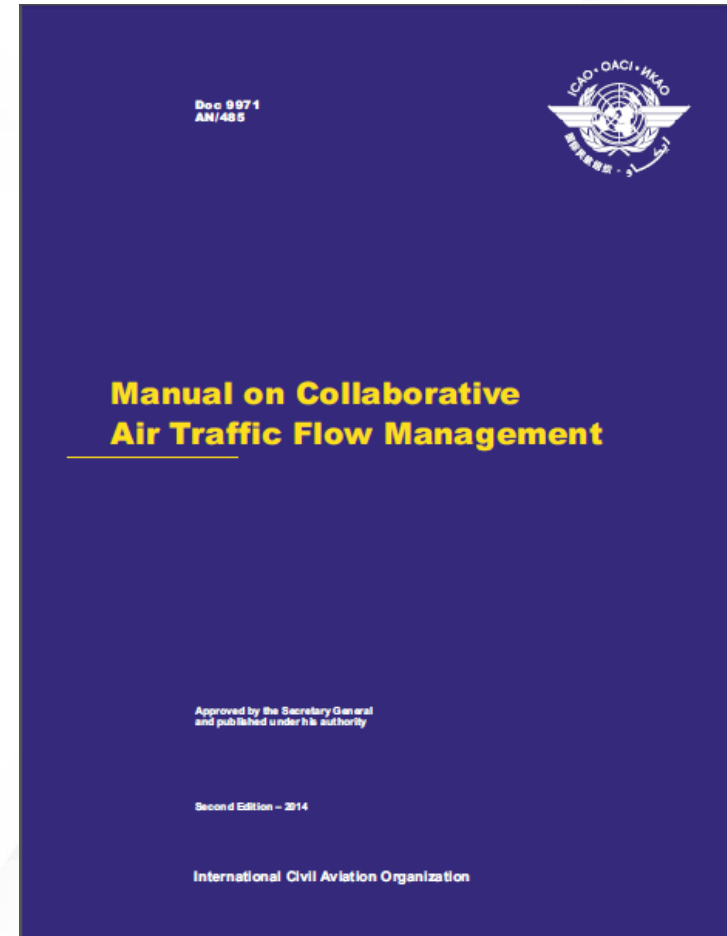
Organizaciones y empresas regionales

CANSO



En sintonía con la OACI

- CAR/SAM ATFM CONOPS
- OACI DOC 9971
- CADENA fue diseñada para implementar los procesos y procedimientos del Doc 9971



2. Análisis

6 Diciembre de 2016: Los CEOs/COOs afiliados de CADENA firmaron la histórica “Carta de Acuerdo de gestión de afluencia y toma de decisión en colaboración entre los participantes de CADENA”



SENEAM, FAA, EANA, DC-ANSP, COCESNA, TTCAA, IDAC

LETTER OF AGREEMENT

EFFECTIVE: DECEMBER 6TH, 2016.

SUBJECT: CANSO ATFM DATA EXCHANGE NETWORK FOR THE AMERICAS (CADENA) MEMBER
ANSP AIR TRAFFIC MANAGEMENT AND COLLABORATIVE DECISION MAKING

The CADENA Members (hereafter referred to as Members) enter into this letter of agreement (LOA) to facilitate the safe and efficient movement of air traffic between and through Member air navigation service provider (ANSP) flight information regions (FIR).

1. PURPOSE: The purpose of this LOA is to facilitate the safe and efficient movement of air traffic and to establish continuity of operations through air traffic flow management (ATFM) and collaborative decision-making (CDM) procedures and processes between the Members. This LOA promotes communication, collaboration and coordination between the Members regarding ATFM and CDM measures. The information shared among CADENA members is only for the purpose of aviation use.

2. SCOPE: This agreement establishes a common regional, cross-border air traffic management (ATM) communications protocol, a seamless operational atmosphere that incorporates common operating procedures and practices, and a performance reporting and review structure and process. The procedures herein are for use by Members to provide normal and contingency ATFM services and for developing regional ATFM/CDM procedures. This LOA is a non-binding regional operational agreement and is not intended to replace any local agreements or any other LOAs between Members.

3. BACKGROUND:

a. CANSO's main objective is to support its Members in the provision of safe, efficient and cost-effective air navigation services worldwide. The CANSO Operations Standing Committee (OSC) provides operational leadership and expertise in the implementation of ATM improvements and identifies future technologies and procedures to help transform global ATM

“Este acuerdo promueve la comunicación, colaboración y coordinación entre los participantes sobre las medidas de ATFM y CDM”

ll

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RB

“Por medio del intercambio de información entre los participantes de CADENA y otros interesados y con el fin incrementar la seguridad operacional, este acuerdo promueve la comunicación, colaboración y coordinación entre los participantes y la oficina de operaciones espaciales ATO”



LETTER OF AGREEMENT

EFFECTIVE: DECEMBER 3, 2020

SUBJECT: CANSO ATFM DATA EXCHANGE NETWORK FOR THE AMERICAS (CADENA) SPACE LAUNCH AND RECOVERY PROTOCOLS

The participating CADENA Air Navigation Service Providers (ANSPs) and the Federal Aviation Administration (FAA) Air Traffic Organization (ATO) Space Operations office (ATO Space Ops) enter into this Letter of Agreement (LOA) to facilitate the safe and efficient movement of space launch and recovery between and through participating ANSP flight information regions (FIRs).

1. PURPOSE: The purpose of this LOA is to facilitate the safe and efficient movement of space launch and recovery operations between and through participating ANSP FIRs. This LOA promotes communication, collaboration, and coordination between the participating ANSPs and ATO Space Ops regarding space launch and recovery operations. The information shared among participating CADENA participating ANSPs and stakeholders is for the sole purpose of aviation safety.

2. SCOPE: This agreement establishes a common regional, cross-border air traffic management (ATM) communications protocol, a seamless operational atmosphere that incorporates common operating procedures and practices, and a performance reporting and review structure and process. The operations described herein are for use by participating CADENA ANSPs and ATO Space Ops to provide space launch and recovery information. This LOA is a non-binding regional operational agreement and is not intended to replace any local agreements or any other LOAs between participating ANSPs.



CANSO y CGH Technologies, Inc. unieron esfuerzos para proporcionar una nueva plataforma para destacar la gestión de tránsito aéreo

CANSO and CGH Technologies, Inc virtual signing



Cindy Troutman
President CGH Technologies, Inc

Simon Hocquard
CANSO Director General

CADENCE - Red de intercambio de datos de gestión de flujo de tránsito aéreo para la excelencia cooperativa

(CANSO Air Traffic Flow Management (ATFM) Data Exchange Network for Cooperative Excellence).

El acuerdo asegura la provisión de la exitosa plataforma colaborativa diseñada para la iniciativa regional **CADENA**.

CADENCE is now a globally available platform

- Ago 2016: 1er Reunión de CADENA en Cuba
- Oct 2016: 2a Reunión de CADENA en Argentina
- Dic 2016: Conferencia Operacional de CADENA
Dic 16 – “En vivo”
- Ene 2017: Se inicia la participación de las organizaciones y aerolíneas en la conferencia operacional de CADENA
- Feb 2017: 3a Reunión de CADENA con la industria para demostrar la tecnología ATFM en Curaçao
- Jun 2017: 4ª Reunión de CADENA en Jamaica
- Oct 2017: 5ª Reunión de CADENA en Rio de Janeiro
- Jul 2018: 6ª Reunión de CADENA en Atlanta, GA
- Ene 2019: 7ª Reunión de CADENA en Santo Domingo
- Jul 2019: 8ª Reunión de CADENA en Miami, FL
- Mar 2020: 9ª Reunión de CADENA en Miami, FL
- Sep 2020: 10ª Reunión de CADENA (Virtual)
- Mar 2021: 11ª Reunión de CADENA (Virtual)

Hoja de implementación de CADENA



Implementación operacional de CADENA

Logros :

- Firma de la carta de acuerdo (LOA) de ATFM y CDM
- Firma de la carta de acuerdo (LOA) de las operaciones espaciales para los lanzamientos y rescate
- Sistema de información operacional de CADENA (OIS)
- Conferencias operacionales semanales
- Conferencias especiales o de contingencias como por eje. Huracanes
- Reuniones regulares del equipo de liderazgo de CADENA
- Intercambio de mejores practicas (Asia, África, Oriente Medio)

Logros:

- TTCAA: Primer proveedor de datos internacional que se conecta al SWIM de la FAA
- Manual de procedimientos ATFM/CDM de CADENA
- Conferencias de CDM
- Conferencias de CDM de ATM y operaciones espaciales
- Capacitaciones en contingencias

Manual de procedimientos

Formulario de contingencia del ANSP

LoA entre FMUs



Civil Air Navigation Service Organisation Air Traffic Flow Management Data Exchange Network for the Americas

CADENA Air Traffic Flow Management and Collaborative Decision Making Procedures Manual



ANSP CONTINGENCY FORM

Impacted Facility / Sector: _____

REF #: _____

Type of Contingency

Communication Facility Surveillance Staffing Other

Detail

Click here to enter text.

Traffic Management measures

Miles-in-trail (MIT) Minutes-in-trail (MINIT) Re-routing
 Fix Balancing Level Capping Tunnelling
 Airborne Holding Ground Delay Program (GDP) Ground Stop (GS)
 Airspace Flow Program (AFP)

Detail

Click here to enter text.

FIRs Affected

TTZP TIZS SVZM TNCF MDCS
 MTEG KZMA KZWY KZHU MUFH
 MKJK MMFR MHCC MPZL SKEC
 SKED SARR SACF SAEF SAVF
 ____ ____

Start Time

Click here to enter text.

End Time

Click here to enter text.

Addendum to the Letter of Agreement

SUBJECT: AIR TRAFFIC FLOW MANAGEMENT (ATFM) COLLABORATION

1. PURPOSE

The purpose of this addendum is to facilitate the safe and efficient movement of air traffic and establish continuity of operations through Air Traffic Flow Management (ATFM) and Collaborative Decision Making (CDM) procedures between the ANSP1 FMU1 located in (city/country), and the ANSP1 FMU2 located in (city/country). This addendum will promote coordination and collaboration between FMU1 and FMU2 regarding Traffic Management Measures (TMMs) and the routing of aircraft in and out of the ANSP1 FIR and the ANSP2 FIR. FMU1 and FMU2 will be the primary points of contact for coordinating TMMs and operations between ANSP1's ACC and ANSP2's ACC.

2. SCOPE

This addendum establishes ATFM/CDM procedures and communications protocol that promote a seamless operational atmosphere which incorporates operational procedures and practices. The procedures outlined herein are to be used by the FMU1 and the FMU2 to assist in providing ATFM services.

This addendum is not intended to replace any local agreements or any other LOAs between the ANSP1's ACC and ANSP2's ACC.

3. BACKGROUND

Traffic Flow Management continues to evolve as new procedures and technologies are developed. As such, it is possible that FMU1 TMMs may include and affect departures from ANSP2's airports and ANSP2's airspaces. Likewise, FMU2 TMMs may include and affect departures from ANSP1's airports and ANSP1's airspaces.

ANSP1 and ANSP2 have established Air Traffic Services (ATS) operational agreements creating cross-border communications and a seamless operational atmosphere. This addendum incorporates FMU1's and FMU2's operational procedures and practices.

4. COORDINATION PROCEDURES

4.1. Communication Systems

The means of communication to be used for pre-tactical and tactical ATFM coordination shall be those listed in the main LOA as well as:

- Dedicated commercial telephone numbers for ATFM coordination (commercial telephone numbers are shown in the annex to this addendum);
- Web-based capabilities; and
- Any other means of communication available.

The screenshot displays the CADENA OIS website interface. On the left is a map of the Americas with red outlines indicating flight routes. On the right is a 'Regional Operations Plan' for Trinidad & Tobago on 29/Aug/2021 at 16:40. The plan includes sections for Anticipated Demand Information (MEDIUM), TMM Planned (NONE), Urgent Advisory, Weather (WSCA31 TTPP 291608), Volcanic Ash (NONE), Constraints (NONE), Special Events (NONE), Equipment Outages (NONE), and Other (COVID 19 RESTRICTIONS IN PLACE. SEE NOTAMS.). A list of flight numbers is provided at the bottom of the plan. The website header shows navigation options like 'Information', 'Regional TMM 6', 'Active Reroutes 0', 'Delays 0', 'Advisories 4', and 'Español'. A footer message states: 'THE NEXT CADENA PLANNING WEB CONFERENCE WILL BE HELD ON THURSDAY, SEPTEMBER 2, 2021 AT 1400 UTC' and the time is '29/Aug/2021 18:19:52'.

Regional Operations Plan

TTCAA Trinidad & Tobago :29/Aug/2021 16:40

Anticipated Demand Information MEDIUM

TMM Planned NONE

Urgent Advisory

Weather WSCA31 TTPP 291608
TTZP SIGMET 5 VALID 291600/292000 TTPP-
TTZP PIARCO FIR OBS EMBD TS AT 1545Z WI N1800 W04954 -
N1800 W04619 - N1615 W04636 - N1421 W04752 - N1800 W04954
CB TOP ABV FL450 MOV N 09KT INTSF=
=

Volcanic Ash NONE

Constraints NONE

Special Events NONE

Equipment Outages NONE

Other COVID 19 RESTRICTIONS IN PLACE. SEE NOTAMS.

TAPA - A1325/21
TFFF - A1360/21
TFFR - A1351/21
TGPY - A1293/21
TKPK - A1214/21, A1035/21, A1026/21, A1025/21
TKPN- A1024/21
TLPC - A1136/21, A1072/21, A1059/21
TLPL - A1135/21, A1104/21, A1058/21, A1045/21
TVSA - A1375/21 A1374/21 A1326/21

THE NEXT CADENA PLANNING WEB CONFERENCE WILL BE HELD ON THURSDAY, SEPTEMBER 2, 2021 AT 1400 UTC

29/Aug/2021 18:19:52

<https://www.cadenaois.org/index.html>

Plan diario de ATFM – enlace para los archivos

The screenshot shows a web browser window with the URL https://www.cadenaois.org/vpublic_adpfiles.jsp. The page title is "ADP Files" and it includes a language selector for "Español" and a login link for "ANSP / Airline Login".

The main content is a table with the following columns: ANSP, Uploaded By, File Name, and Upload Time. The table lists various files uploaded by different ANSPs, including CADENAHQ, UAEAC, IDAC, and JCAA, with file names related to COVID-19 updates, NOTAMS, and travel bans.

ANSP	Uploaded By	File Name	Upload Time
CADENAHQ	Joe Hof	CADENA Update - Corona Virus Limitations by ANSP - 08 29 2021 update - 1300 UTC - Full version.docx	29/Aug/2021 11:31
UAEAC	Eduardo Gonzalez	PDA FCMU COL 29082021.pdf	29/Aug/2021 11:18
IDAC	IDAC ATFMCDM	NotamsInForce.pdf	27/Aug/2021 12:25
JCAA	Yannick Francis	AIRAC AIP AMDT 02_21 EFF 07 OCT 21 (1).pdf	26/Aug/2021 12:40
IDAC	IDAC ATFMCDM	NotamsInForce.pdf	26/Aug/2021 10:16
JCAA	Yannick Francis	AIC 22_21 - Extension of Travel Ban.pdf	12/Aug/2021 14:05
EANA	FMU EZE	AIC A26 - SANITARY EMERGENGY - EXTENSION.pdf	12/Aug/2021 11:08
JCAA	Yannick Francis	AIP SUPP 03_21 RE SUSPENSION OF SDVOR DME.pdf	27/Jun/2021 12:42
JCAA	Yannick Francis	AIC A18_2021-Travel Ban Extended - Covid 19.pdf	03/Jun/2021 12:43
JCAA	Yannick Francis	AIRAC AIP AMDT 01_21 EFF 20 MAY 21.pdf	20/May/2021 12:37
JCAA	Yannick Francis	AIC 12_21 Pratt & Whitney Engines not permitted.pdf	20/May/2021 12:32
JCAA	Yannick Francis	AIC A16_2021 - AMENDED COVID 19 TRAVEL PROTOCOLS.pdf	13/May/2021 12:50
JCAA	Yannick Francis	AIC A14_2021 - AMENDED COVID 19 TRAVEL PROTOCOLS.pdf	18/Apr/2021 11:12
JCAA	Yannick Francis	AIC A13_21 EXPANDED TRAVEL BAN -UK & SPECIFIED SOUTH AMERICAN COUNTRIES.pdf	15/Apr/2021 12:39
JCAA	Yannick Francis	AIC A12_2021 - AMENDED COVID 19 TRAVEL PROTOCOLS.pdf	08/Apr/2021 13:10

At the bottom right of the page, it says "A CAN SO Project."

CADENA y COVID-19



La actualización del COVID-19 por parte de los ANSPs se remite a todos los participantes de CADENA (aerolíneas y ANSPs)

Browser address: https://www.cadenois.org/vpublic_adpfiles.jsp

Language: Español | ANSP / Airline Login

CADENA OIS

- ATFM Daily Plan
- Information
 - Master Slide Deck
 - ADP Link Files
 - Reroute Repository
 - Airport Capacity
 - Contingency Form
 - Sector Capacity
 - Participant List
 - Acronyms
 - LOA List
- Regional TMM
- Active Reroutes
- Delays
- Advisories
- ANSPs
- Airlines

ADP Files

ANSP	Uploaded By	File Name	Upload Time
CADENAHQ	Joe Hof	CADENA Update - Corona Virus Limitations by ANSP - 08 29 2021 update - 1300 UTC - Full version.docx	29/Aug/2021 11:31
UAEAC	Eduardo Gonzalez	PDA FCMU COL 29082021.pdf	29/Aug/2021 11:18
IDAC	IDAC ATFMCDM	NotamsInForce.pdf	27/Aug/2021 12:25
JCAA	Yannick Francis	AIRAC AIP AMDT 02_21 EFF 07 OCT 21 (1).pdf	26/Aug/2021 12:40
IDAC	IDAC ATFMCDM	NotamsInForce.pdf	26/Aug/2021 10:16
JCAA	Yannick Francis	AIC 22_21 - Extension of Travel Ban.pdf	12/Aug/2021 14:05
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JCAA	Yannick Francis	AIP SUPP 03_21 RE SUSPENSION OF SDVOR DME.pdf	27/Jun/2021 12:42
JCAA	Yannick Francis	AIC A18_2021-Travel Ban Extended - Covid 19.pdf	03/Jun/2021 12:43
JCAA	Yannick Francis	AIRAC AIP AMDT 01_21 EFF 20 MAY 21.pdf	20/May/2021 12:37
JCAA	Yannick Francis	AIC 12_21 Pratt & Whitney Engines not permitted.pdf	20/May/2021 12:32
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JCAA	Yannick Francis	AIC A13_21 EXPANDED TRAVEL BAN -UK & SPECIFIED SOUTH AMERICAN COUNTRIES.pdf	15/Apr/2021 12:39
JCAA	Yannick Francis	AIC A12_2021 - AMENDED COVID 19 TRAVEL PROTOCOLS.pdf	08/Apr/2021 13:10

A CAN SO Project.



CADENA Update - Coronavirus Operational Limitations
Updated: August 29, 2021 (1300 UTC)

NOTE: Changes from the previous update are shown in RED font

FACILITY	IMPACT	NOTAM/ AIC
	PIARCO	
	USERS SHOULD CHECK ALL NOTAMS. ALL CDM PARTNERS MAY LOG ON TO HTTPS://CAA.GOV.TT/NOTAM/	
TTPP	A1243/21 – TTPP – FROM 2107190115 2110190000 – THE MINISTER OF NATIONAL SECURITY HEREBY ADVISES,PURSUANT TO REGULATION 7 OF THE PUBLIC HEALTH (2019 NOVEL CORONAVIRUS,2019-NCOV) (NO. 17) REGULATIONS, 2021 PUBLISHED BY LEGAL NOTICE NO. 186 OF 2021 AND REGULATION 7 OF THE PUBLIC HEALTH(2019 NOVEL CORONAVIRUS, 2019-NCOV) (NO. 18) REGULATIONS, 2021 PUBLISHED BY LEGAL NOTICE NO. 195 OF 2021, THAT WITH EFFECT FROM SATURDAY JULY 17, 2021 AND, CONTINUING UNTIL FURTHER NOTICE, PERMISSION WAS AND HAS BEEN GRANTED FOR THE OPENING OF ALL AIR AND SEA PORTS AND/OR ANY PLACE WHERE AN AIRCRAFT AND/OR SHIP AND/OR VESSEL CAN LAND FOR THE ARRIVAL AND/OR DEPARTURE OF AIRCRAFT AND/OR SHIPS AND/OR OTHER VESSELS CARRYING PASSENGERS AND/OR CARGO AND/OR OTHERWISE ARRIVING AND/OR DEPARTING.TAKE NOTICE THAT THE LAWS OF THE REPUBLIC OF TRINIDAD AND TOBAGO, INCLUDING BUT NOT LIMITED TO THE PROVISIONS OF IMMIGRATION ACT CH 18:01 REGARDING THE ENTRY OF PERSONS INTO AND OUT OF TRINIDAD AND TOBAGO, SHALL APPLY AND THAT THE ENTRY OF PERSONS INTO TRINIDAD AND TOBAGO SHALL ALSO BE GOVERNED BY AND BE IN ACCORDANCE WITH INTER ALIA THE MINISTRY OF HEALTH QUARANTINE PROTOCOLS FOR PASSENGERS ENTERING INTO TRINIDAD AND TOBAGO DATED JULY 15, 2021.	A1243/21
TTCP	A1244/21 – TTCP – FROM 2107191730 TO 21010192200 – THE MINISTER OF NATIONAL SECURITY HEREBY ADVISES,PURSUANT TO REGULATION 7 OF THE PUBLIC HEALTH (2019 NOVEL CORONAVIRUS, 2019-NCOV)(NO.17) REGULATIONS 2021, PUBLISHED BY LEGAL NOTICE NO. 186 OF 2021 AND REGULATION 7 OF THE PUBLIC HEALTH (2019 NOVEL CORONAVIRUS, 2019-NCOV)(NO.18) REGULATIONS 2021, PUBLISHED BY LEGAL NOTICE NO. 195 OF 2021, THAT WITH EFFECT FROM SATURDAY JULY 17, 2021 AND CONTINUING UNTIL FURTHER NOTICE, PERMISSION WAS AND HAS BEEN GRANTED FOR THE OPENING OF ALL AIR AND SEA PORTS AND/OR ANY PLACE WHERE AN AIRCRAFT AND/OR SHIP AND/OR VESSEL CAN LAND FOR THE ARRIVAL AND/OR DEPARTURE OF AIRCRAFT AND/OR SHIPS AND/OR OTHER VESSELS CARRYING PASSENGERS AND/OR CARGO AND/OR OTHERWISE ARRIVING AND/OR DEPARTING. TAKE NOTICE THAT THE LAWS OF TRINIDAD AND TOBAGO , INCLUDING BUT NOT LIMITED TO THE PROVISIONS OF IMMIGRATION ACT CH 18:01 REGARDING THE ENTRY OF PERSONS INTO AND OUT OF TRINIDAD AND TOBAGO, SHALL APPLY AND THAT THE ENTRY OF PERSONS INTO TRINIDAD AND TOBAGO SHALL ALSO BE GOVERNED AND BE IN ACCORDANCE WITH INTER ALIA THE	A1244/21

Disclaimer: This update does not contain all pertinent NOTAM information. It represents summary information provided by the CADENA stakeholders as of this date and time.

Avisos: Urgentes / Informativos y notificación por correo electrónico

ATFM Daily Plan

Information

Regional TMM

Active Reroutes

Delays

Advisories

ANSPs

Airlines

Regional Advisories

ID	ANSP / Airline	Type	Start Date	End Date	Summary	Reason	
197	CADENAHQ	FYI	31/OCT/2020 12:00	31/DEC/2021 00:00	ICAO NACC COVID-19 Website - Resource	COVID-19 information for situational awareness in the NAM/CAR Regions	Details
400	CADENAHQ	FYI	28/JUL/2021 12:00	31/JUL/2021 00:00	CADENA COVID-19 Limitations	COVID-19 Restrictions	Details
396	ECNA	FYI	08/JUN/2021 17:51	30/SEP/2021 23:59	A1787/21 NOTAMN	OVERFLY PERMIT REQUIRED	Details
420	EANA	Urgent	28/JUL/2021 18:00	29/JUL/2021 00:00	RESISTENCIA ACC OUTAGE	NOTAM A3992/21	Details
423	EANA	Urgent	28/JUL/2021 18:00	29/JUL/2021 00:00	RESISTENCIA ACC cellphone number and email address	AMHS OUTAGE	Details
421	EANA	Urgent	28/JUL/2021 18:00	29/JUL/2021 00:00	RESISTENCIA ACC OUTAGE	NOTAM A3991/21	Details

EANA Argentina has just submitted a new Urgent Advisory

CADENA [system@cadenaois.org]

To: system@cadenaois.org



Wednesday, July 28, 2021 1:26 PM

Greetings from CADENA:

EANA Argentina has just submitted an Urgent Advisory as shown below.

ANSP/Airline Name: **EANA Argentina**

Type: **Urgent Advisory**

Start Date: **28/Jul/2021 18:00**

End Date: **29/Jul/2021 00:00**

Summary: **RESISTENCIA ACC OUTAGE**

Reason: **NOTAM A3992/21**

Details: **(NOTAM A3992/21) RESISTENCIA ACC SER SURVEILLANCE RADAR NOT PROVIDED IN SECTOR. 28 JUL 13:59 2021 UNTIL 28 JUL 23:59 2021 ESTIMATED. CREATED: 28 JUL 14:03 2021**

HURACAN NORA – 1600 UTC – 29 DE AGOSTO 2021



Browser address bar: <https://www.cadenaois.org/secure/hurricanewebconf.jsp>

Navigation: **CADENA OIS** | **CANSO** | **CADENA** | **CADENA HQ** | Español | Chat | Help | Settings | Logout

Breadcrumbs: Hurricane / Crisis / Contingency / Huracán / Crisis / Contingencia

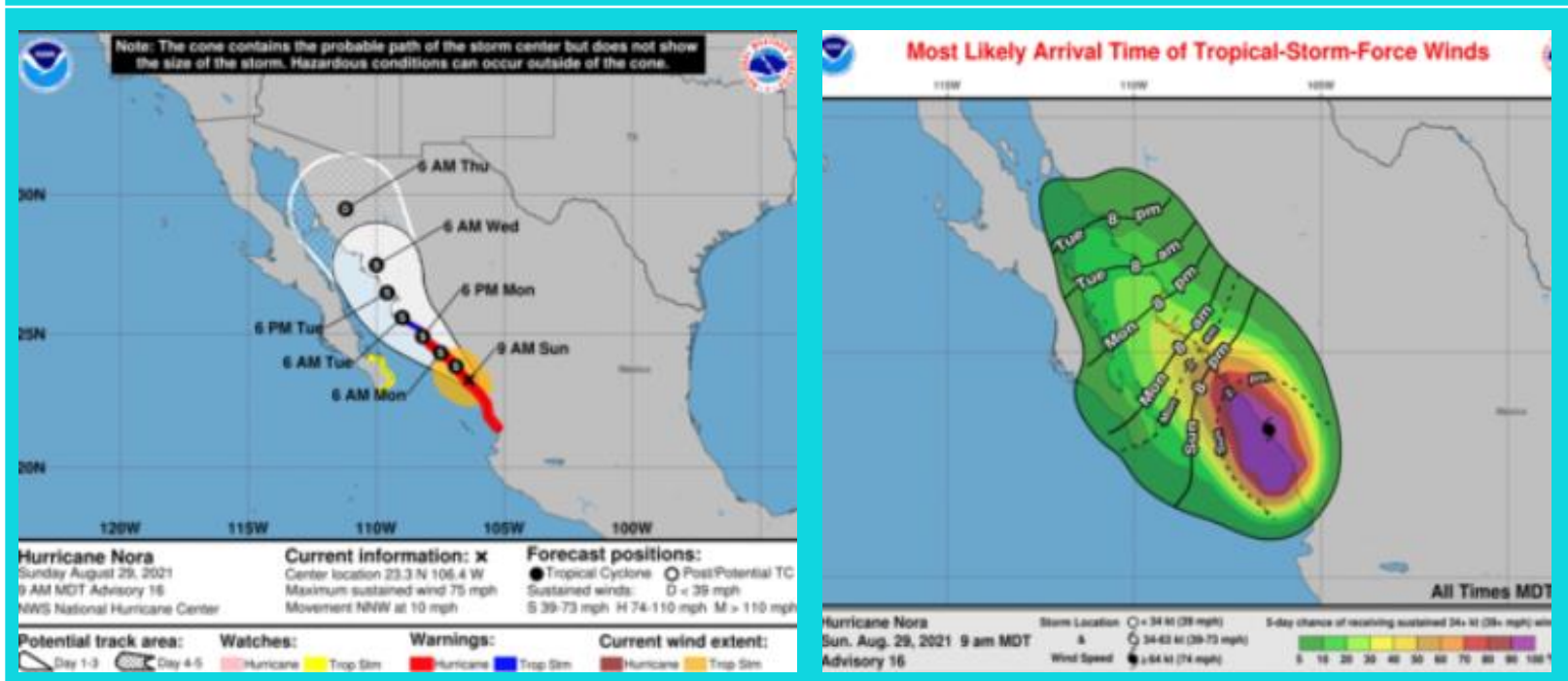
Drop files here to upload (Max 25Mb)

ANSP	Uploaded By	File Name	Upload Time
SENEAM	Ale	HURRICANE NORA 29 AUG 2021_2.pptx	2021/08/29 16:11

A CANSO Project.



PROJECTED PATH IN YOUR AIRSPACE





PROJECTED IMPACT

DAY 2

STAFFING ISSUES: NONE
EQUIPMENT OUTAGES: NONE

AIRPORT CLOSING: MMZO, MMMZ

MMZO A4797/21 - AP CLSD. 29 AUG 12:46 2021 UNTIL 29
AUG 20:00 2021.

MMMZ A4799/21 - AP CLSD. 29 AUG 15:37 2021 UNTIL 29
AUG 17:37 2021.

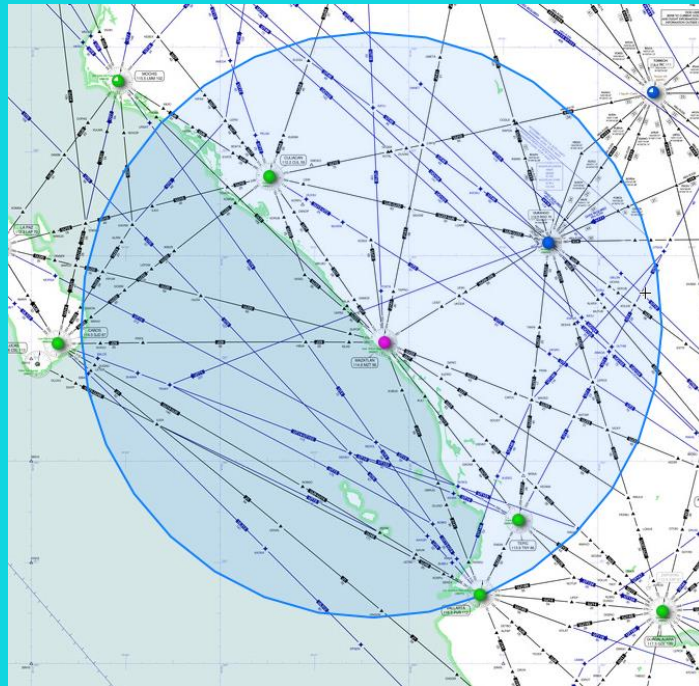
DAY 3-4

STAFFING ISSUES: NONE
EQUIPMENT OUTAGES: NONE



AFFECTED ROUTES

ROUTE CLOSURES



PLANNED TRAFFIC MANAGEMENT MEASURES

- No TMM's PLANNED FOR NOW



OTHER ISSUES

- NORA IS FORECAST TO BE AT OR NEAR HURRICANE STRENGTH WHILE IT MOVES NEAR THE COASTS OF NAYARIT AND SINALOA.
- HURRICANE WARNINGS FOR PORTIONS OF NAYARIT AND SINALOA.
- HEAVY RAIN IS EXPECTED THE STATES OF COLIMA NORTHWARD TO SOUTHERN SONORA.
- LIFE-THREATENING FLASH FLOODING AND MUDSLIDES ARE EXPECTED.
- NORA MOVE NORTH-NORTHWESTWARD OVER THE GULF OF CALIFORNIA TUESDAY AND WEDNESDAY BRINGING WIND TO PORTIONS OF BAJA CALIFORNIA SUR, NORTHERN SINALOA AND SONORA.

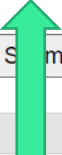
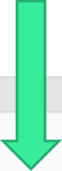
CADENA OIS Sistema de rutas planificadas y alternas (PASAs)

CADENA OIS ECNA Cuba Español Procedures Chat Help Settings Logout

PASA Route Requests

To ANSP(s): Requestor:

Request:



Coordinación del vuelo de prioridad con vacunas para el COVID-19

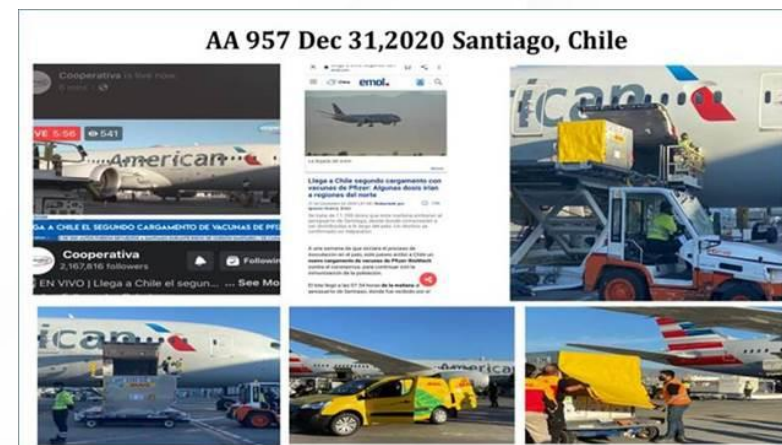
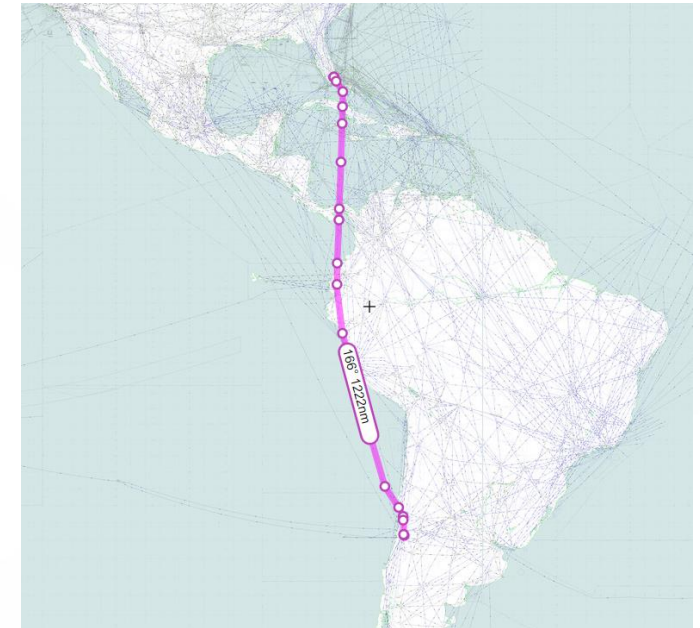
American Airlines activated the CADENA PASA route mechanism requesting a Vaccine Priority flight from Miami to Santiago de Chile. In the hours before the flight's departure, CANSO, the FAA Miami Center, ECNA, Jamaica, Panama, Colombia, Ecuador, Peru, and Chile received information and acknowledged the high priority mission.

The ANSPs coordinated an optimum route through their airspace and notified air traffic controllers and supervisors.

During the flight, the controllers and supervisors made sure the flight received priority handling.

The shipment arrived in SCL on time and successfully delivered to the customer at planeside. With the president of Chile at the airport watching this transfer, the movement had live press coverage.

PASA ROUTE REQUEST DEC 31, 2020



SOLICITUD DE RUTA PASA - AGO 28, 2021



SOLICITUD DE RUTA PASA - NOV 16, 2020

Sala de intercambio de información

Chat Room

2019-11-12 13:36:59 Testing from Mick at AAL

2019-11-12 13:41:46 Read you load and clear

2019-11-12 14:06:11 Morning Mick and Deano!

2019-11-12 14:40:04 Morning all from sunny Florida @Spirit

2019-11-12 15:02:47 GOOD MORNING DEANO, TESTING, FROM ECNA CUBA.

2019-11-12 15:10:05 Good morning Havana FMU!

post new message Send

CADENA WhatsApp Huracan Delta

CADENA OPS Group

For our SENEAM colleagues, please see the email I just sent you regarding Delta Airlines' PASA Route Request from KSLC to MMUN

Already answered 9:29 a.m.

FF MMLLYNMD MMIDZRZX
071907 MMMXNYX
(A5890/20 NOTAMR A5889/20
Q) MMFR/QFALT/IV/NBO/A/000/999/2102N08653W002
A) MMUN
B) 2010071907
C) 2010081900
E) AEROPUERTO ABIERTO UNICAMENTE PARA VUELOS VFR) 3:48 p.m.

So far, MMUN only VFR ops permitted, staff undergoing cleaning and check work to find any damage to airport aids and building, according to Patty. 3:50 p.m.

CUN VOR, SSR and ILS still U/S. 3:51 p.m.

That's correct working on the slides, we'll advise when ready, thank you 3:54 p.m.

Thank you 3:55 p.m.

Just tell us what can we do for help, know that you must be very busy. 3:56 p.m.

Capacitación de contingencias



Exercise Introduction

➤ Our goal is to train like we respond

- Operational and personnel safety come first!
- Ensure good communication and teamwork
- Use the CADENA Contingency Event checklist
- Use the capabilities in the CADENA OIS

FMU Actions

➤ CADENA Procedures Manual: Appendix D

Impacted Facility: KINGSTON ACC

Follow-Up AFM Actions

- Notify CADENA and KORD leadership as soon as possible
- Gather information on:
 - How long is the ACC expected to be out of service?
 - What is the impact to demand and capacity?
 - Have aircraft diverted?
 - If so, how many and to which airports?
- CADENA leadership will, as soon as possible, schedule and conduct a CADENA CDM web conference, including airspace users, to relay available information and establish next steps

NOTE: The situation may require scheduling a daily webex for the first few



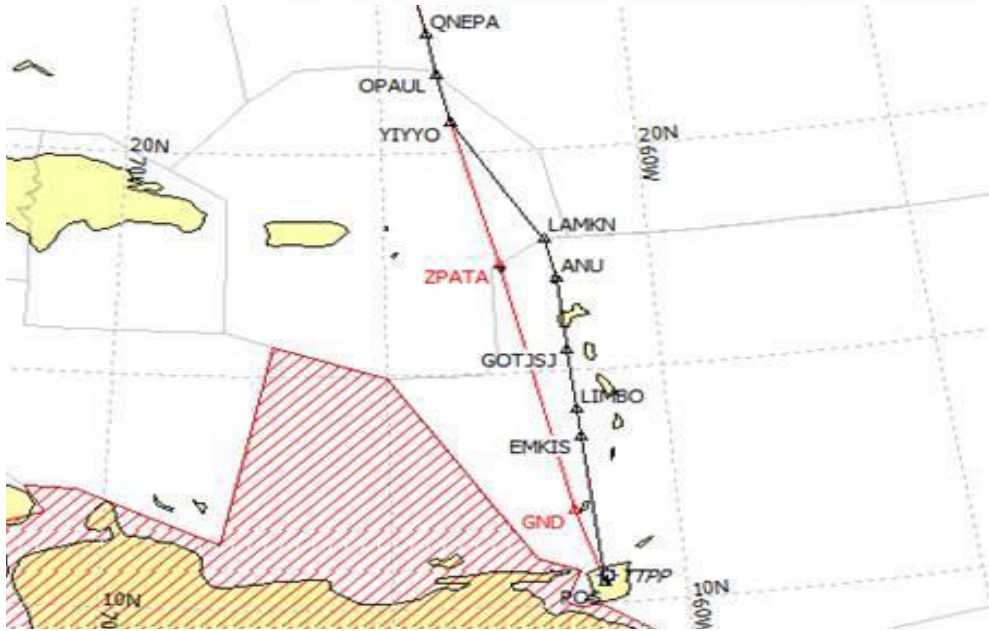
CADENA HURRICANE ISAAC UPDATE – 1400 UTC

PIARCO – March 24, 2021

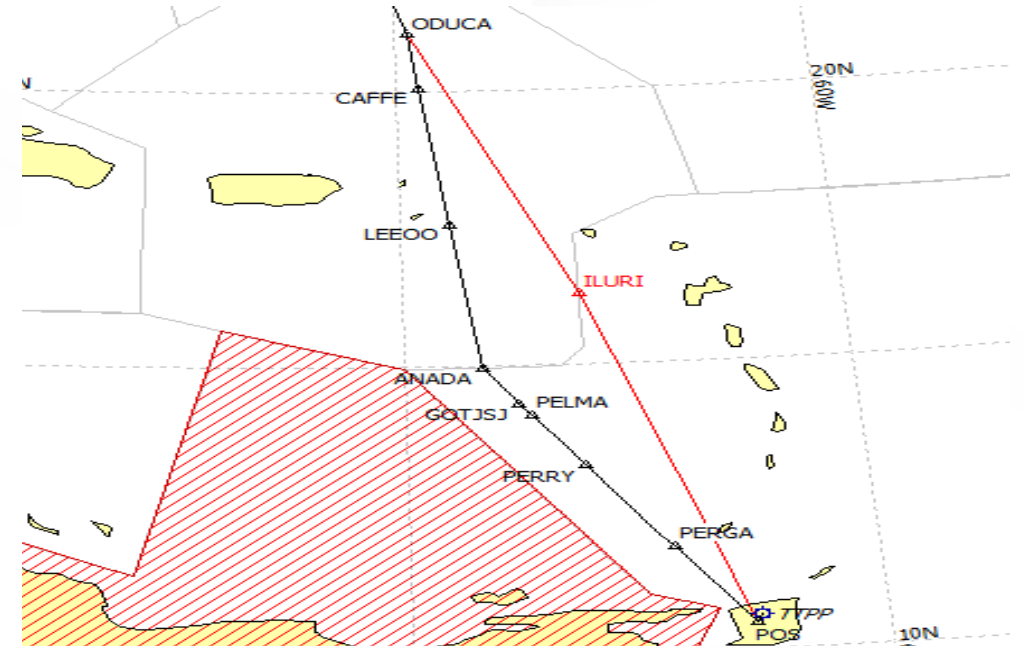
PROJECTED PATH IN YOUR AIRSPACE	PROJECTED IMPACT AND DURATION
HURRICANE ISAAC - LOCATED: 1038N06059W MOVING: WEST NORTH WEST AT 09 MPH	AIRPORTS – TTTP IMPACT: HIGH STATUS: CLOSED PROJECTED OPENING: MAR 27/1600 NOTAMS A1369/21 NOTAMR A1344/21
	AIRPORT – TTPC IMPACT: HIGH STATUS: CLOSED PROJECTED OPENING: MAR 26/1900 NOTAMS A1370/21 NOTAMR A1345/21

CADENA organiza capacitaciones de contingencias de forma trimestral

CADENA - Rutas de punto a punto



GND DCT ZPATA DCT YIYYO –
14NM reduction/2 minutes of savings
B777-200ER – 400LBS
B737-800 – 200LBS



GND DCT ILURI DCT ODUCA –
17NM reduction/2 minutes of savings
B777-200ER -500LBS savings
B737-800 – 200LBS savings

CANSO – IATA Proyecto de rutas libres (CIFRAS)

CANSO y IATA acordaron unir esfuerzos y unir el proyecto de CANSO para optimizar rutas de punto a puntos (E2E) con el Proyecto de IATA para la implementación de rutas directas en la región de América Latina y el Caribe. El objetivo de ambos proyectos se concentra en la optimización de rutas. Al unir esfuerzos se esta eliminando la duplicidad, y se obtienen mejores resultados que son de mayor importancia para el propósito final.

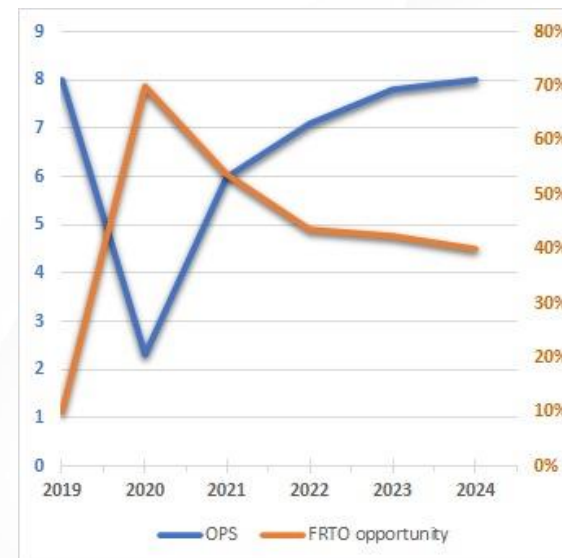
CIFRAS seguirá el proceso de CANSO E2E, e incluye datos de la matriz histórica de los IFRs que proporciona IATA. La ruta Atlanta – Lima – Atlanta fue la primera ruta de los proyectos pilotos que se están coordinando.

El grafico muestra los ahorros acumulativos que se obtendrán entre 2021 y 204, solo considerando 40 de las 1270 pares de ciudades de la región.



Potential benefits 2021-2024

- +68,500,000 LB in fuel saved
- +2'000,000 NM saved
- +4300 Flight hours saved
- +98'000,000 CO₂ Kg saved



Resultados del proyecto piloto PASA E2E

May 2021: KATL ↔ SPJC

DAL150	ETE	Burn(lbs)	Distance
Baseline	6:18	83900	2858
w- DCTs	6:16	83300	2855
Diff	0:02	600	3
Cost saving/yr		\$92,281/yr	
CO2 saving/yr		222,824kg/yr	
DAL151	ETE	Burn(lbs)	Distance
Baseline	6:35	87017	2916
w- DCTs	6:31	84445	2882
Diff	0:04	2572	34
Cost saving/yr		\$276,669/yr	
CO2 saving/yr		955,172kg/yr	

June 2021: KATL ↔ SBGR

DAL104	ETE	Burn(lbs)	Distance
Baseline	09:23	124,306	4,243
w- DCTs	09:20	123,707	4,223
Difference	00:03	599	20
Cost saving/yr		\$174,285/yr	
CO2 saving/yr		311,434kg/yr	
DAL105	ETE	Burn(lbs)	Distance
Baseline	09:05	121,446	4,197
w- DCTs	09:03	120,940	4,164
Difference	00:03	506	33
Cost saving/yr		\$127,505/yr	
CO2 saving/yr		263,081kg/yr	

Resultados y ahorros de la 3er ruta piloto PASA E2E

July 2021: KMIA ↔ TTPP

BWA483	ETE	Burn(lbs)	Distance
Baseline	3:31	21210	1478
w- DCTs	3:26	* N/A	1479
Diff	0:05	N/A	-1
Cost saving/yr	\$182,000/yr		
CO2 saving/yr	Unable to calculate		
	* Ground Stop at KMIA		
BWA484	ETE	Burn(lbs)	Distance
Baseline	3:28	21252	1498
w- DCTs	3:25	20860	1496
Diff	0:03	392	2
Cost saving/yr	\$151,580/yr		
CO2 saving/yr	204,522kg/yr		

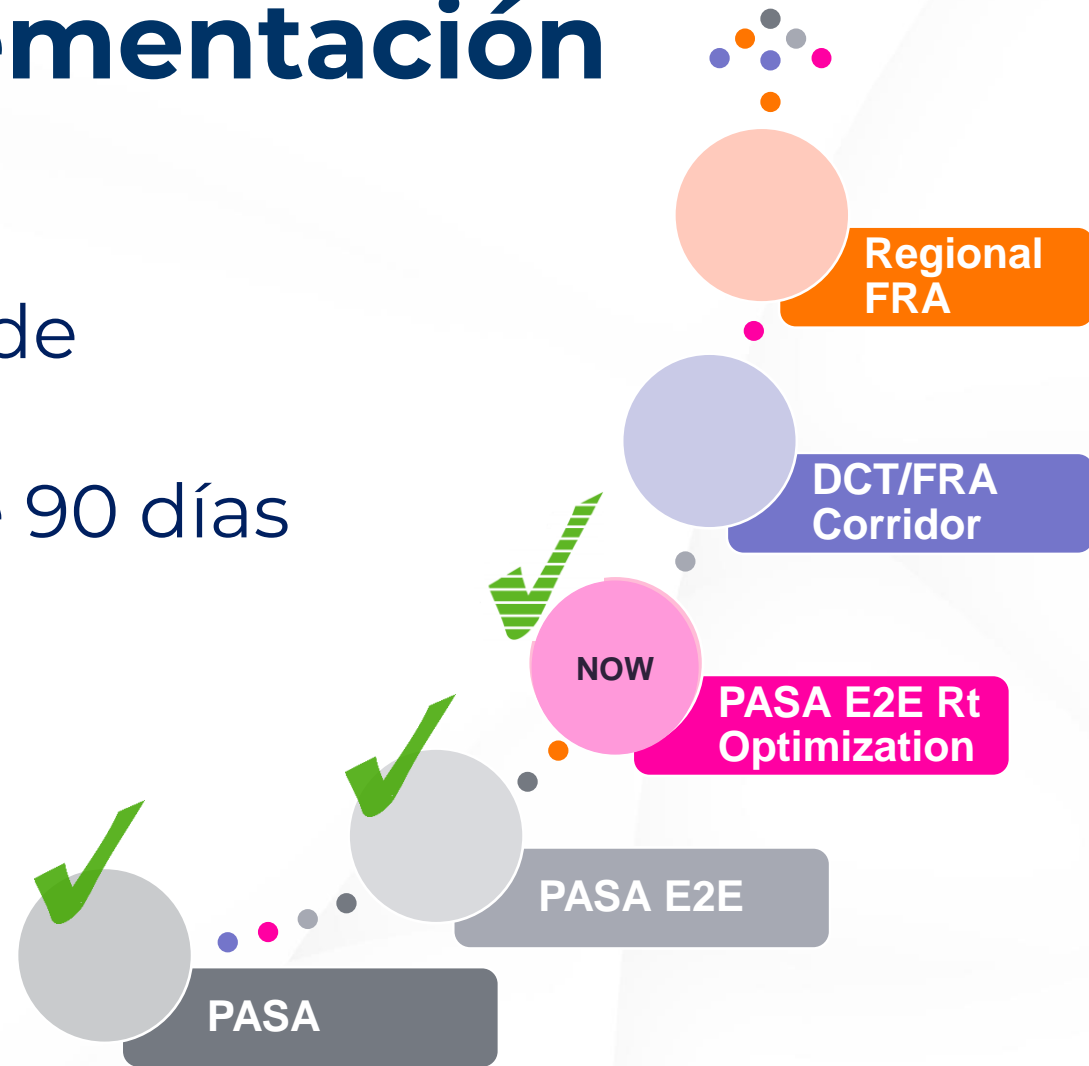
BWA483 sufrió una demora en tierra y no se pudo obtener los datos de ahorros para volar la ruta y con los directos solicitados.

Sin embargo, los resultados de las pruebas fueron positivas para la aerolínea Caribbean y ha decidido continuar con las pruebas de 90 días.

CIFRAS

Concepto de implementación

- PASA E2E – fase de ruta de optimización
- Tres proyectos pilotos de 90 días actualmente en marcha
 - KATL-SPJC
 - KATL-SBGR
 - KMIA-TTPP



Se están coordinando mas proyectos pilotos entre ciudades pares

Situación de la falla del Sistema AFTN e internet

21 y 22 de julio, 2021: Se identifica una falla en el Sistema de AFTN e Internet. Las aerolíneas no podían enviar su plan de vuelo al respectivo ANSP.

- Solución (temporal): (A) Uso tradicional del teléfono, (B) Correos electrónicos (C) Colaboración entre ANSPs (D) Uso innovador de la sala de intercambio de información (chat room).

DATE	NETWORK FAILURE	TIME UTC
JULY 21	ANSP IMPLEMENTS 10 LINES, EMAIL, FREQUENCY AND CADENA OIS CHAT ANSP SOFTWARE TO IMPROVE FLIGHT PLAN COORDINATION	14:00
JULY 21	USE A DIFFERENT WAY TO CONNECT (SALT LAKE/ATLANTA) SERVER – ANSP - ANSP	20:00
JULY 22	STILL IN USE SEVERAL LINES, FREQUENCY, EMAIL AND CADENA OIS CHAT-ANSP SOFTWARE	14:00

Innovador uso del CADENA OIS



CADENA OIS CADENA HQ Español [Chat](#) [? Help](#) [Settings](#) [Logout](#)

Global Broadcast ⓘ

2021-07-21 17:21:31 UTC
CADENAHQ Joe Hof

Good afternoon to all and internet are out of service. We discovered that is receiving your Chat message via email push notification. They cannot respond to your Chat message, but they are receiving the flight plans. Go for it ! Joe

2021-07-21 17:22:34 UTC
UNITED gen schnee

Thank you Joe. We have the chat room open in case any request comes in.

new global broadcast message Send

ANSP / Airline Communication (Beta) ⓘ

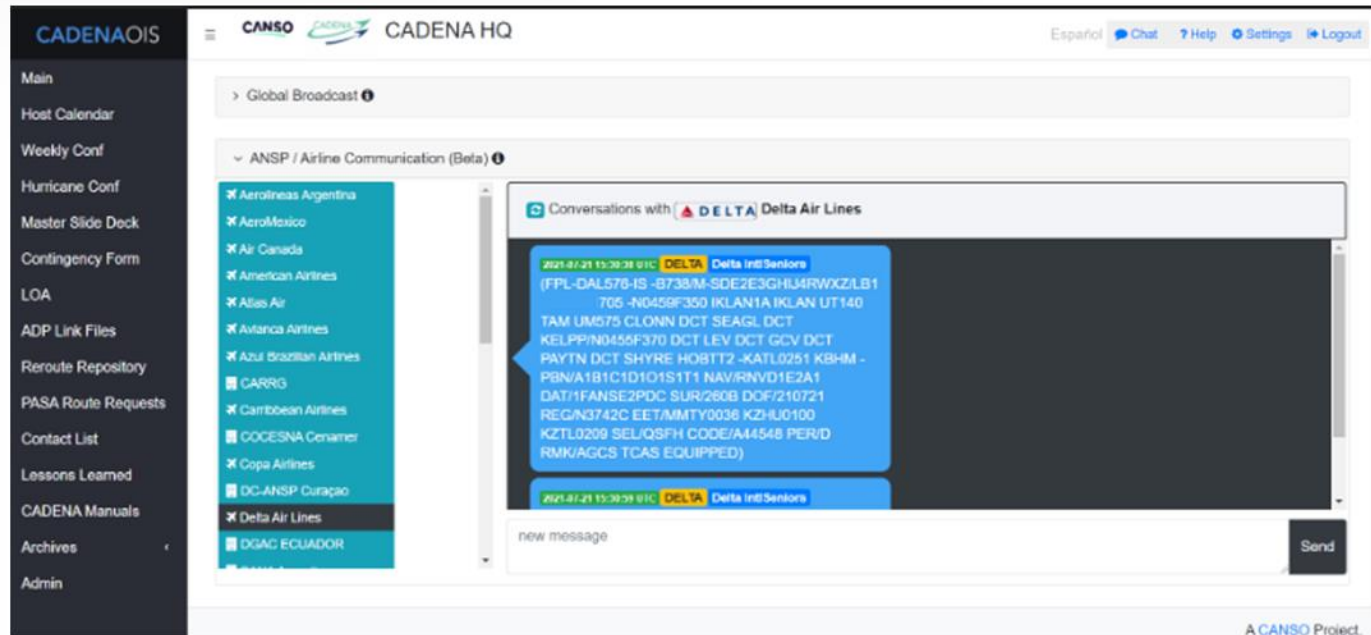
- Aerolíneas Argentina
- AeroMexico
- Air Canada
- American Airlines

Conversations with Volaris

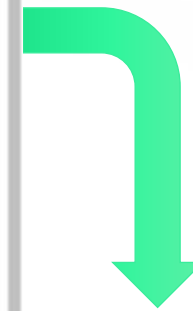
Good afternoon, Volaris Dispatch, test message

2021-07-21 17:13:09 UTC CADENAHQ Joe Hof

Evitó retrasos innecesarios en la salida del vuelo. Conexiones perdidas potencialmente ahorradas y costos asociados



Intercambio de planes de vuelo entre el ANSP y la aerolínea



Carga/entrada manual



Se evitaron retrasos innecesario en la salida del vuelo. Se evito la perdida de conexiones y costos asociados para las aerolíneas.

CDM entre el ATM y operaciones espaciales

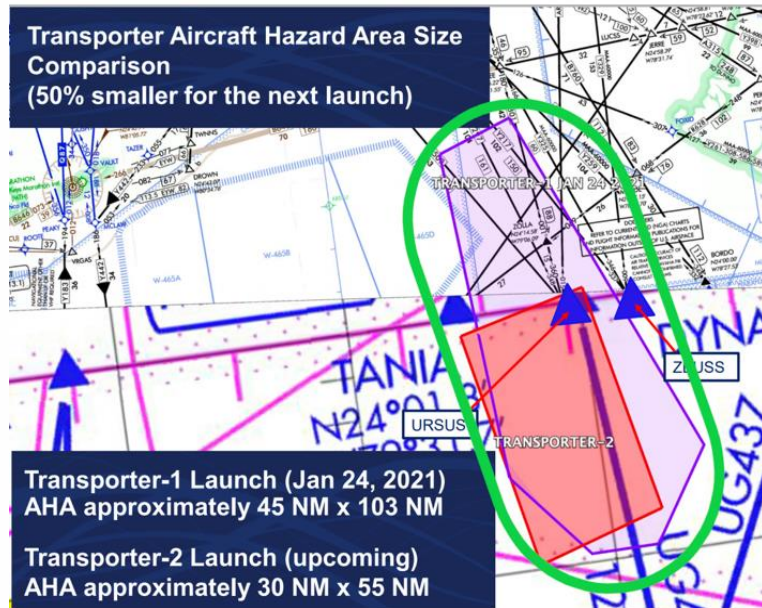


Figure A. Transporter Launch Aircraft Hazard Area (AHA)

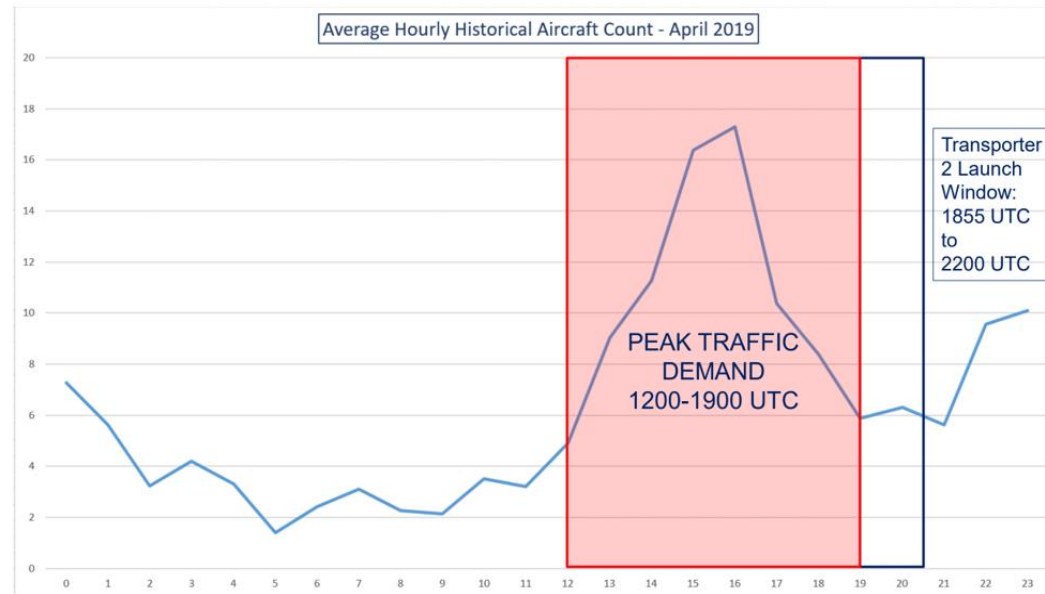


Figure B. Historical Peak Traffic 2019

Las teleconferencias de Toma de Decisión en Colaboración (CDM) de operaciones ATM/Espaciales que se esta llevando a cabo, redujeron el área de peligro de la aeronave de lanzamiento polar (AHA) de SpaceX y los tiempos activos para el Transporter 2. Las mejoras con relación a la misión del Transportador 1 incluyeron una nueva área de peligro, 50% mas pequeña, permitiendo el uso de aerovías críticas. Los tiempos activos también se reprogramaron para después de las horas de mas trafico de 1500-1900 UTC, mitigando los impacto en el flujo de transito aéreo.

Beneficios de CADENA – IATA

- La coordinación de ATFM ha tenido un cambio de un solo ANSP a una perspectiva regional, permitiendo una mejora en la coordinación.
- CADENA utiliza el CDM, que permite que la comunidad aeronáutica participe y comparta mejoras para la planificación estratégica. Esto le proporciona al operador un foro de información para planificar mejor las operaciones.
- Reduce las operaciones “sorpresa” mejorando el desempeño operacional.
- Detección a tiempo de las limitaciones e identificación de rutas y trayectorias alternas reales.
- Conocimiento de eventos especiales, incluidos operaciones VIP y el impacto esperado en las operaciones del día.

REGIONAL FOCUS

CADDENA
conferencia de planificación
operativa

JUEVES
1400 UTC

Información que los ANSPs comparten en la conferencia virtual

- Situación del personal
- Falla en equipos
- Condiciones meteorológicas
- Limitaciones
- Cierre de rutas
- Información de lanzamientos / recuperación
- Medidas anticipadas de ATM
- Demanda anticipada de tráfico aéreo

El plan operativo de CADENA

- Establece el proceso, la estructura y las responsabilidades a desarrollar, administra e implementa un plan pre-táctico para las operaciones de tránsito aéreo en las IFRs de los participantes de CADENA.
- El Plan Regional de Operaciones (ROP) es un plan desarrollado en colaboración con todos los integrantes de CADENA.
- El ROP está en el CADENA OIS.

Plan diario de ATFM de los ANSPs



Information Regional TMM 0 Active Reroutes 0 Delays 0 Advisories 5 Español



Regional Operations Plan

DGAC ECUADOR :28/Jun/2021 11:57

Anticipated Demand Information MEDIUM

TMM Planned NONE

Urgent Advisory

Weather SEGU 281040Z 2812/2912 22012KT 9999 FEW010 BKN023 BKN100 BECMG 2814/2816 SCT026 SCT100 BKN100 BECMG 2818/2820 14004KT BECMG 2902/2904 21012KT FEW010 BKN023 BKN100 TX30/2820Z TN22/2910Z

SEQM 281040Z 2812/2912 VRB03KT 9999 FEW030 BKN090 BECMG 2817/2819 01012KT BECMG 2822/2824 01004KT BKN026 BKN080 BECMG 2908/2910 3000 BCFG FEW005 BKN016 TX23/2819Z TN11/2911Z

SEMT 281040Z 2812/2912 18004KT 9999 OVC020 BECMG 2816/2818 30010KT SCT023 BECMG 2821/2823 22008KT BKN020 TX29/2820Z TN22/2910Z

SELT 281040Z 2812/2912 VRB03KT 9999 SCT013 SCT026 BKN100 BECMG 2815/2817 36010KT SCT030 SCT100 BECMG 2820/2822 VRB03KT BKN026 BKN100 TX16/2819Z TN04/2911Z

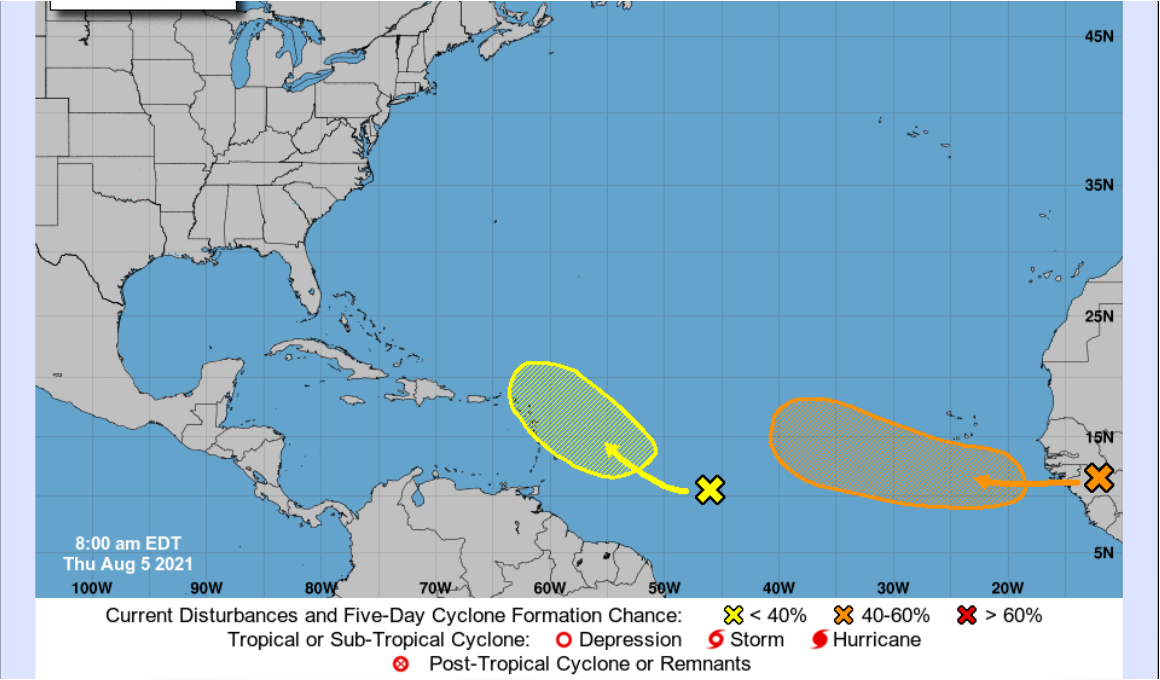
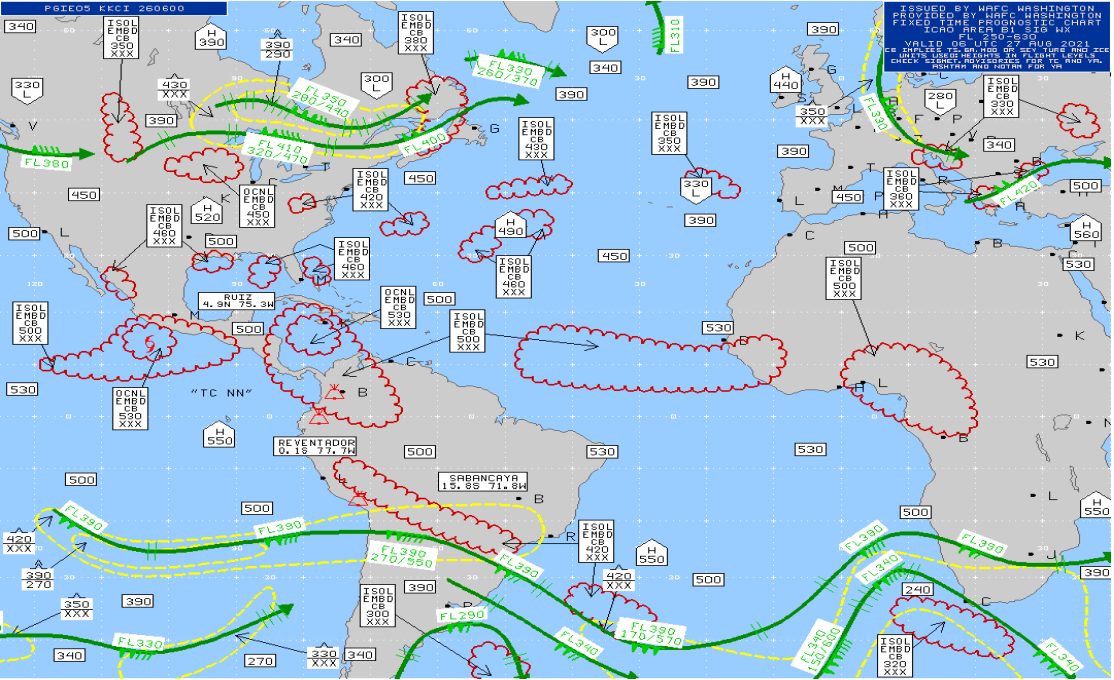
Volcanic Ash NONE

Constraints A0819/21 NOTAMR A0174/21
Q)SEFG/QXXXX/IV/NBO/E/000/999/0137S08336W999
A)SEFG B)2104291956 C)2107292000 EST
E)ALL INTL AND NTL FLIGHTS SHALL UNDERGO STRICT MANDATORY PROTOCOLS UNDER THE SUPERVISION OF MSP OF ECUADOR

Special Events NONE

CADENA

WEATHER OVERVIEW



CADENA

EANA
NAVEGACIÓN
AÉREA
ARGENTINA



EANA Argentina – August 26th, 2021

STAFFING	SIGNIFICANT TERMINAL ENROUTE WEATHER	ANTICIPATED DEMAND
<p>ADEQUATE STAFF (FOLLOWING HEALTH AND GOVERNMENT ADVICES)</p>	<p>THU:</p> <ul style="list-style-type: none"> ▪ <i>MTW</i> advisory in the northwest. ▪ <i>TURB</i> advisory for north, centre and south areas. ▪ <i>ICE</i> advisory and <i>RASN</i> in the south, on the Patagonia region. ▪ <i>FG</i> in the northeast part of the country. ▪ <i>SHRA</i> in the centre area. <p>SUN: <i>RASN</i> in the south</p> <p>FRI/SAT/MON: NOSIG</p>	<p>LOW THE WHOLE WEEKEND</p>



SOURCE: National Weather Service (NWS)

EANA Argentina – August 26th, 2021

<ul style="list-style-type: none">✓ EQUIPMENT OUTAGES✓ SIGNIFICANT NOTAMS✓ CONSTRAINTS✓ SPECIAL EVENTS	PLANNED TMMs
<p>SAEZ:</p> <ul style="list-style-type: none">• RWY 17/35 CLSD WIP MAINT 26 1300-2100 (NOTAM A4442/2021)• RWY 11/29 CLSD WIP MAINT 27 AND 28 1640-1940 (NOTAM A4441/2021) <p>SABE:</p> <ul style="list-style-type: none">• RWY 13/31 CLSD WIP MAINT 31 0400-0700 (NOTAM A4005/2021)• RWY 13/31 CLSD WIP MAINT 02, 07, 09, 14, 16, 21, 23, 28 AND 30 0400-0700 (NOTAM A4359/2021)	NO PLANNED TMMs

EANA Argentina – August 26th, 2021

COVID – 19 Situation

FIR/TMA/ Airport	NOTAM No.
SAEF SACF SAMF SAVF SARR	NO CHANGES FROM LAST WEEK AIC A 26 / 2021 <i>(Uploaded on the CADENA OIS)</i>

CADENA



CENTRE SPATIAL GUYANAIS

Port spatial de l'Europe
Europe's Spaceport



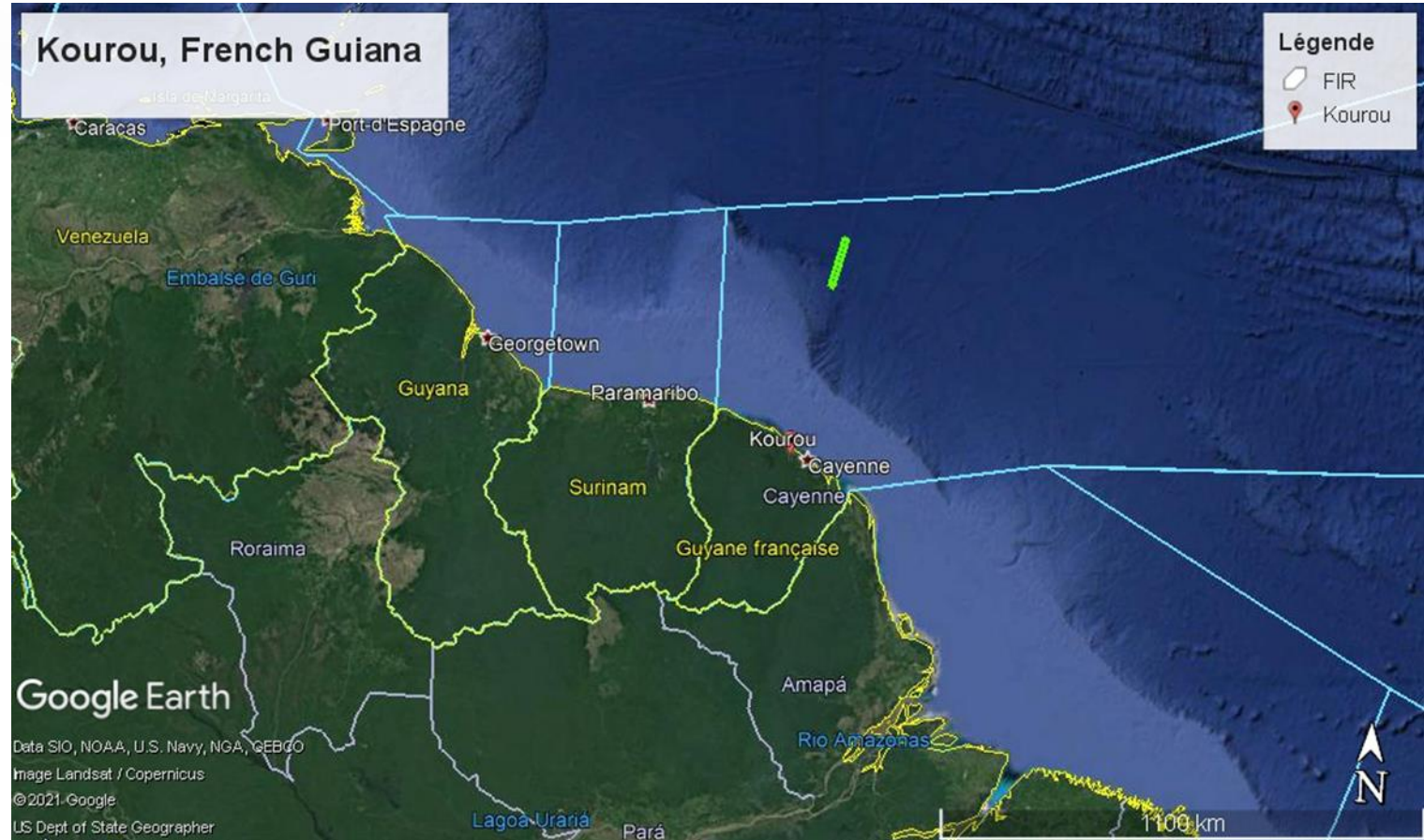
Department of Flight Safety

• 12/08/2021



• Upcoming Launch

- French Guiana Space Center (CSG), FRENCH GUIANA
 - VEGA VV19 Flight – Pléiades Neo 4 + rideshares
- August 17, 0147 UTC, Instantaneous Launch Window



Declaration notification

<i>Dangerous Zone</i>	<i>Zone Boundaries</i>	<i>Day Activation</i>	<i>Time Activation</i>	<i>Impacted FIR</i>
SOR 4 (FORBIDDEN)	REFERENCE	15 August 2021 - 09:00 UTC to 27 August 2021 - 02:18 UTC	Continuously	S000
SOD1 & SOD2	REFERENCE	17 August 2021 to 27 August 2021	Each day From 00:47 UTC to 02:18 UTC	S000
ZA/VV19 P80 Falling Area	0801N05205W 0854N05151W 0853N05146W 0800N05200W	17 August 2021 to 27 August 2021	Each day From 00:47 UTC to 02:18 UTC	S000
ZB/VV19 Z23 + Fairing Falling Area	1840N05252W 1840N05238W 1659N05237W 1659N05250W	17 August 2021 to 27 August 2021	Each day From 00:47 UTC to 02:18 UTC	TTZP KZWY
ZC/VV19 Z9 Falling Area	8012N16920E 8238N13128W 8207N13243W 7948N17126E	17 August 2021 to 27 August 2021	Each day From 01:56 UTC to 03:13 UTC	CZEG PAZA UHMM
ZD/VV19 AVUM Falling Area	3038S08727E 1457S09049E 1504S09131E 3046S08814E	17 August 2021 to 27 August 2021	Each day From 03:57 UTC to 05:14 UTC	YMMM

CADENA



THE PIARCO FIR



CADENA

Piarco – August 12, 2021

STAFFING	SIGNIFICANT TERMINAL / ENROUTE WEATHER	ANTICIPATED DEMAND
Adequate	<p style="text-align: center;">TPP AND TCP <u>THURSDAY 12</u></p> <p style="text-align: center;">Fair to partly cloudy, hazy and, at times, breezy with occasional showers and the low chance of isolated thunderstorm mainly during the afternoon. Nighttime will be mostly fair despite the isolated shower.</p> <p style="text-align: center;"><u>FRIDAY 13</u></p> <p style="text-align: center;">Partly cloudy to cloudy; Occasional showers; Medium to high chance of thunderstorms during afternoon, evening and nighttime.</p> <p style="text-align: center;"><u>SATURDAY 14</u></p> <p style="text-align: center;">Mostly cloudy; Rainy periods; Possible isolated morning thunderstorms.</p> <p style="text-align: right;"><i>SOURCE: TTMS</i></p> <p style="text-align: center;">WEATHER UPDATES WILL BE POSTED DAILY ON THE CADENA OIS</p>	<ul style="list-style-type: none"> • Low to Medium

CADENA

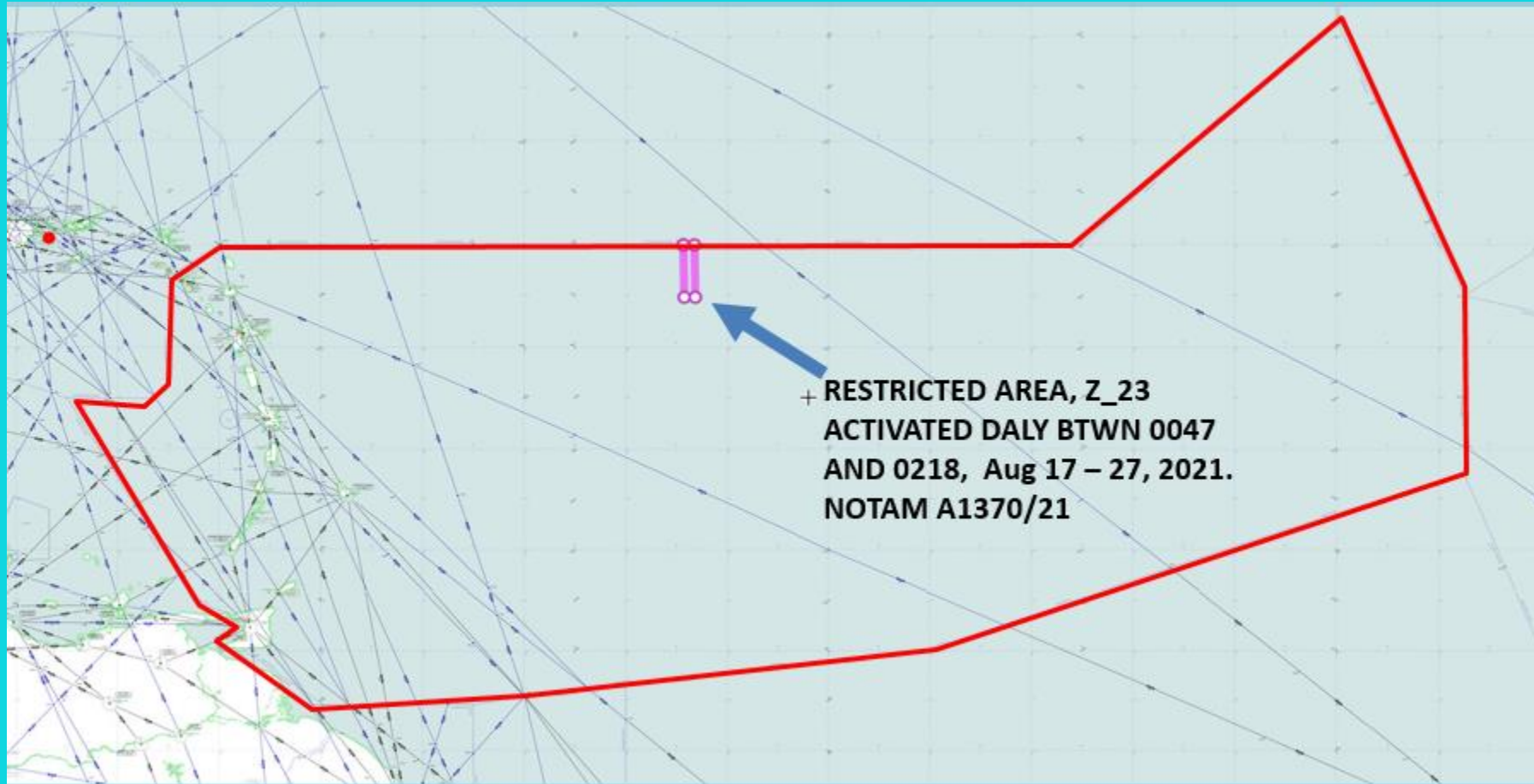
Piarco – August 12, 2021

<ul style="list-style-type: none">✓ EQUIPMENT OUTAGES✓ SIGNIFICANT NOTAMS✓ CONSTRAINTS✓ SPECIAL EVENTS	PLANNED TMMs
<p>TTZP</p> <p>NOTAM A1370/21 - TEMPORARY RESTRICTED AREA Z23 ACTIVATED DAILY BTWN 0047 – 0218 UTC, AUG 17 – 27, 2021, DUE TO FAIRING FALLING AREA OF VEGA LAUNCH VV19. AREA BOUNDED BY COORDINATES: 1800N05251W 1800N05238W 1659N05237W 1659N05250W 1800N05251W (Graphic on following Slide.)</p> <p>TVSC – NOTAM A1320 NDB "CAI" 302KHZ U/S)</p>	NONE

CADENA

Piarco – August 12, 2021

TEMPORARY RESTRICTED AREA Z23



COVID – 19 Update - Changes from last week in **Red** font

FIR/TMA/ Airport	NOTAM No.
TTZP	A1243/21, A1244/21
TGPY	A1293/21
TLPC	A1136/21, A1072/21, A1059/21
TLPL	A1135/21, A1104/21, A1058/21, A1045/21
TFFF	A1360/21
TFFR	A1351/21
TVSA	A1326/21, A1247/21, A1246/21
TAPA	A1325/21
TKPK	A1214/21, A1035/21, A1026/21, A1025/21
TKPN	A1024/21

ATO Space Operations Office



CADENA



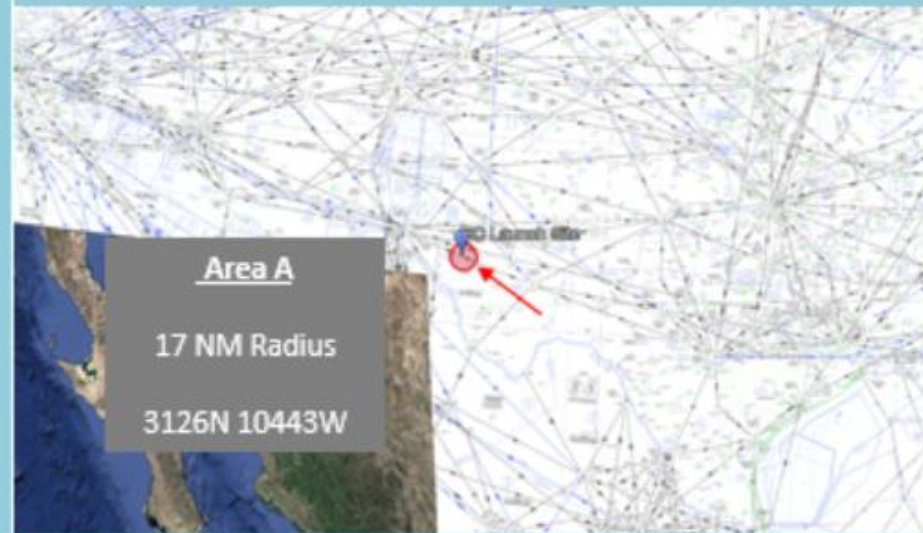
UPCOMING LAUNCH EVENT

LAUNCH SITE – Van Horn, TX

Van Horn, Texas

Blue Origin, NS-17
AUGUST 26, 1230 - 2030 UTC

Backup Dates: AUGUST 27-29, 1230 – 2030 UTC



CADENA



UPCOMING EVENT

LAUNCH SITE *Pacific Spaceport Complex Alaska (PSCA), Kodiak Island, Alaska.*

Pacific Spaceport Complex Alaska (PSCA), Kodiak Island, Alaska.

- 1. ASTRA P132**, Pacific Spaceport Complex Alaska (PSCA), August 27, 2100 to 0000 UTC.

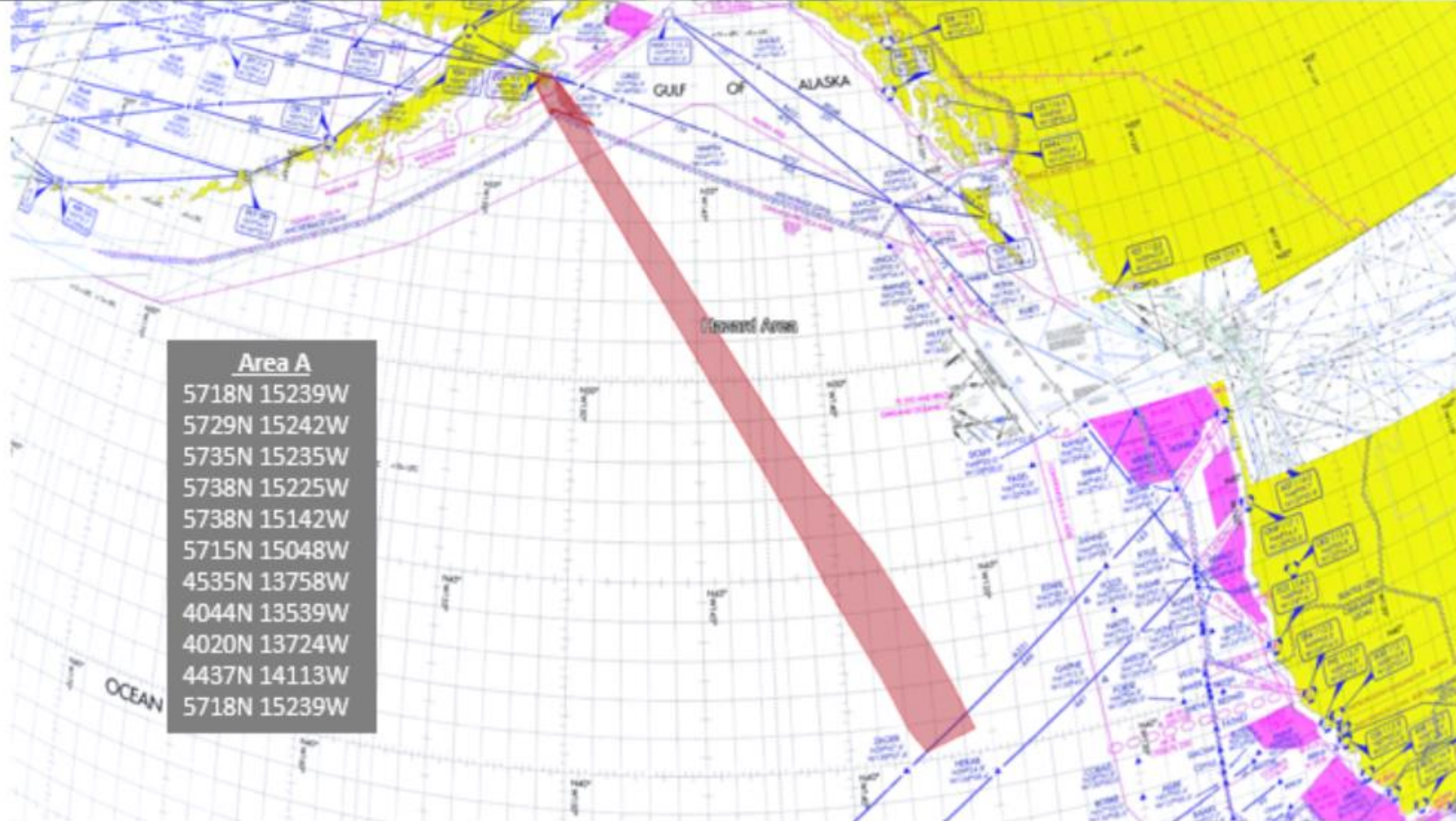
Back-up dates August 28th – September 3rd ,
September 7th – September 11th ,
2100 - 0000 UTC.





FAA Space Operations Office

David J Hurley Air Traffic Control Center



CADENA

Stakeholder comments / questions

Airlines
IATA
ALTA
ACI



CADENA

Any additional comments or questions?





QUESTIONS AND ANSWERS



**THANK YOU
GRACIAS**

CANSO

SHAPING OUR FUTURE SKIES