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**NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY** Know the Earth... Show the Way... Understand the World

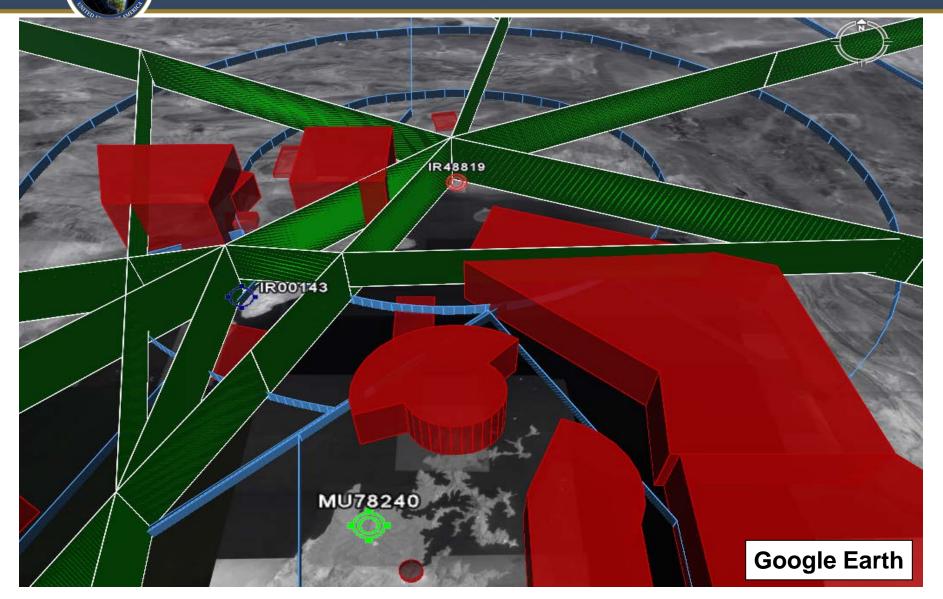
# Moving Towards Electronic Aeronautical Charts

## NGA Intl Aero Rep Fred Calfior











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## **Terminal Procedures**



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WORLD WIDE FLIP COVERAGE

## Automated Air Facilities Intelligence File (AAFIF)

- Worldwide airfield infrastructure
- 469 text data files
- Evaluated and Value-Added Data for **47,000+ airfields**

### **Customers:**

- Commands
- Intelligence Agencies
- Information populates MIDB

### Available Via: CD/DVD





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# Vertical Obstructions

- **DVOF Digital Vertical Obstruction File**
- - Worldwide coverage
- Numerous data sources
- Analyst validated

- OCF Obstruction Change File
- Specialized subset of DVOF
  - Provides updated info based on changes to DVOF
  - Obstacles 200 feet or higher
  - Aids mission planning and legacy chart updates



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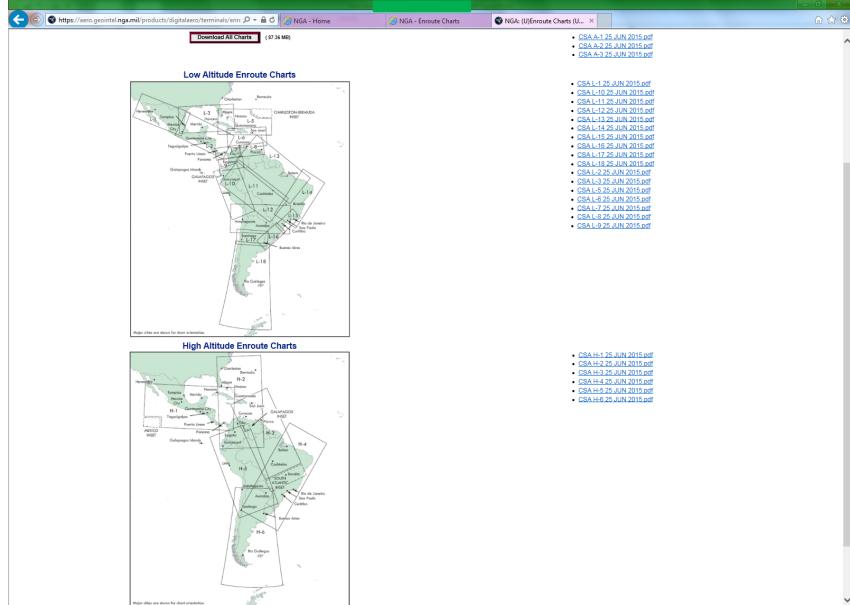
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	Effective: 25 June 2015 thru 22 July 2015	
	Current Cycle: 1507	
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# **Digital Mission**

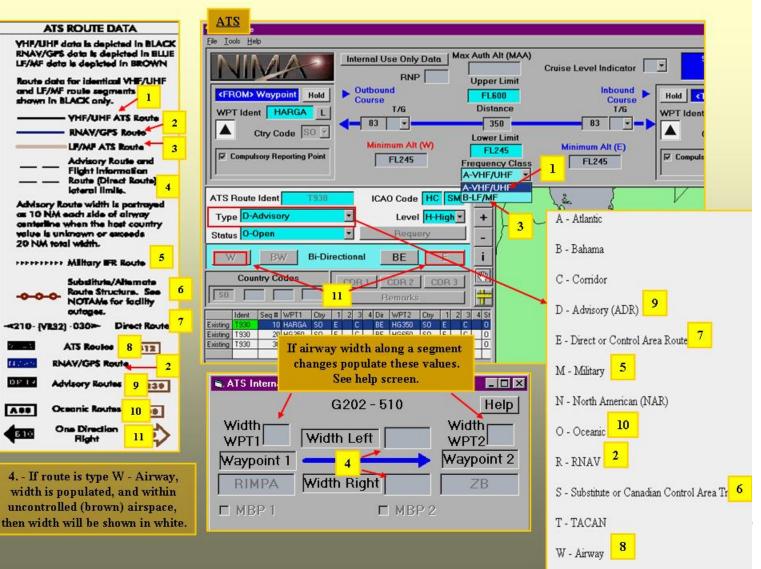
 NGA's enroute aeronautical charts are digitally annotated via dynamic data being pulled directly from the existing database and portrayed to scale with programmed symbology. Weekly internal updates are viewed, validated, and worked in order to prepare for the next cycle's aeronautical chart to be released for flight data usage worldwide.







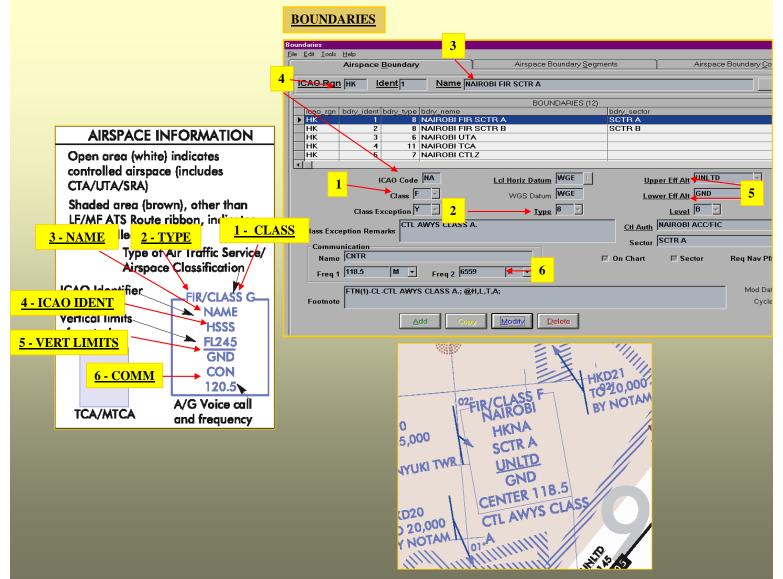
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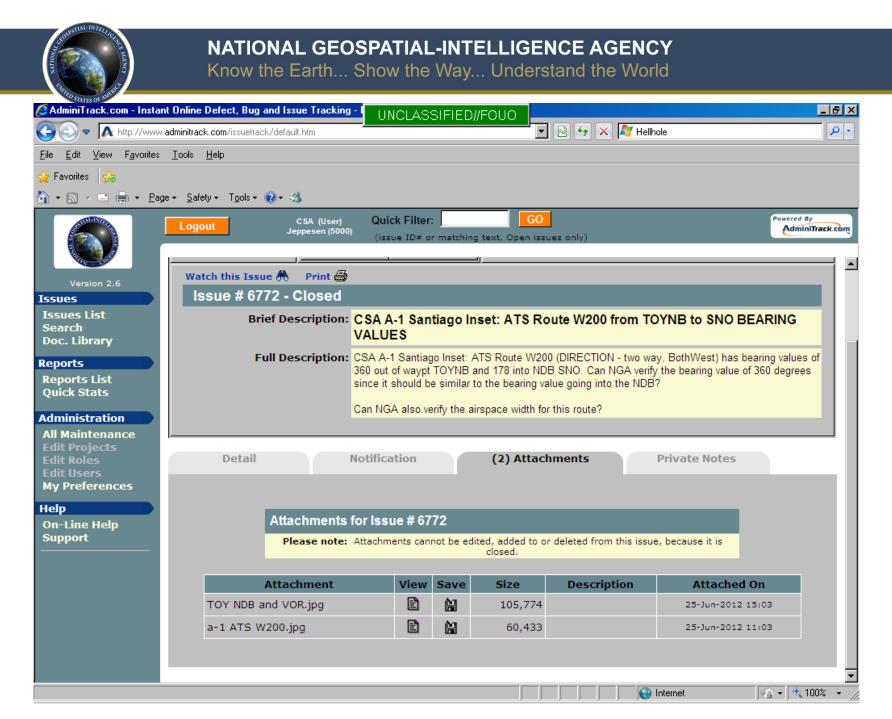
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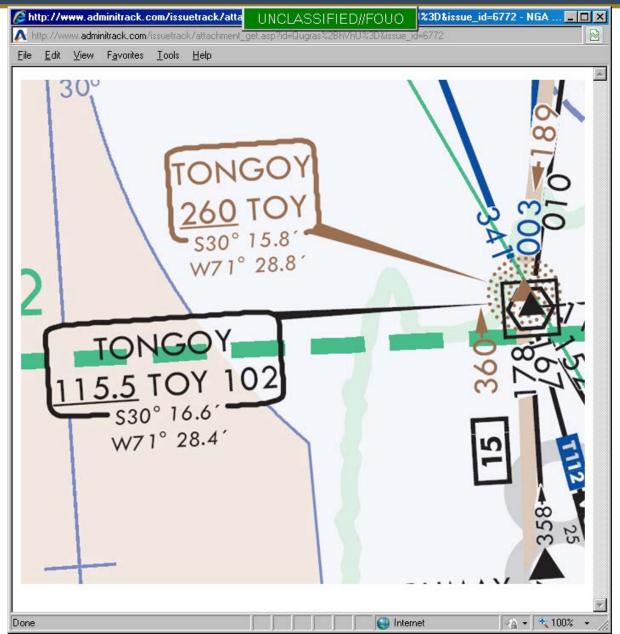
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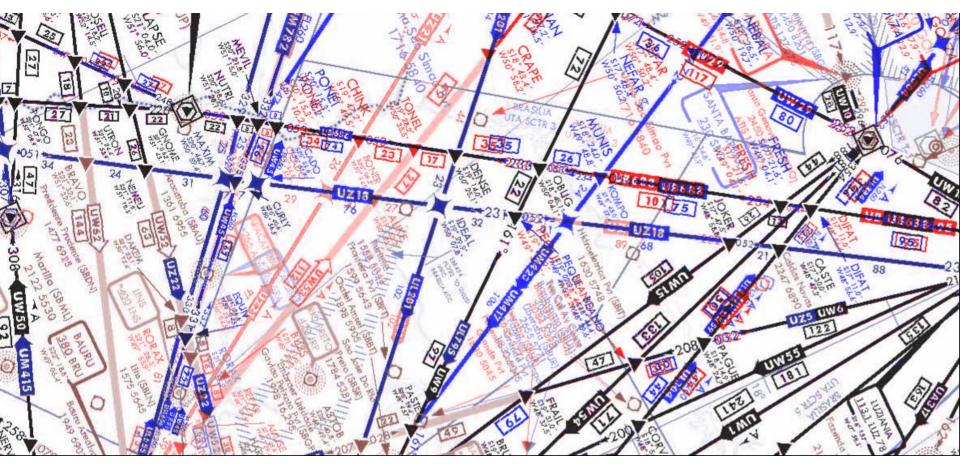




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## DIGITAL COMPARISON OF TWO AIRAC CYCLES



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AERONAUTICAL AGREEMENTS WITH PARTNERS ALLOW FOR EASY FLOW OF INFORMATION .

AIP

AIP SUPPLEMENTS AIP AMENDMENTS NOTAMs

**AICs** 

**AERODROME MANUALS** 

MEMORANDUM OF UNDERSTANDING CONCERNING THE EXCHANGE OF AERONAUTICAL INFORMATION BETWEEN NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA AND CORPORACION CENTROAMERICANA DE SERVICIOS DE NAVEGACION AEREA (COCESNA) TEGUCIGALPA, HONDURAS

1. <u>PURPOSE</u>: This Memorandum of Understanding (MOU) documents plans for the exchange of aeronautical information publications and Notices to Airmen (NOTAMS) produced by the National Geospatial-Intelligence Agency (NGA) of the Department of Defense of the United States of America and the Corporacion Centroamericana de Servicios de Navegacion Aerea (COCESNA). The Parties do not intend, by this MOU, to be bound by international law.

2. MATERIALS TO BE EXCHANGED:

a. NGA provides to COCESNA the items listed in Appendix I, on a non-reimbursable basis, with all future amendments and revisions thereto.

b. COCESNA provides to NGA the items listed in Appendix II, on a non-reimbursable basis, with all future amendments and revisions thereto.

3. OPERATION OF EXCHANGE:

a. The materials and/or information specified in paragraph 2. above, will be shipped directly to the addressees listed in Appendixes I and II in the quantities specified.

b. The method of shipment shall be as specified in Appendixes I and II.

c. The cost of shipping the materials involved in this exchange will be sustained by the originating agency.



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### FROM PARTNER DATA TO FLIP PRODUCTS

### ENROUTE CHARTS FLIGHT INFO HANDBOOK

TERMINAL PROCEDURES

**SUPPLEMENTS** 

**AREA PLANNING BOOKS** 

GENERAL PLANNING BOOKS

**FLIP DVD** 

MEMORANDUM OF UNDERSTANDING CONCERNING THE EXCHANGE OF AERONAUTICAL INFORMATION BETWEEN NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA AND CORPORACION CENTROAMERICANA DE SERVICIOS DE NAVEGACION AEREA (COCESNA) TEGUCIGALPA, HONDURAS

#### APPENDIX I

The National Geospatial-Intelligence Agency (NGA) will furnish to the Corporacion Centroamericana de Servicios de Navegacion Aerea (COCESNA) the following Flight Information Publications (FLIP) as soon as published. Amendments and/or new editions will be supplied in like quantities on an automatic basis.

#### U.S. DEPARTMENT OF DEFENSE FLIP PRODUCTS

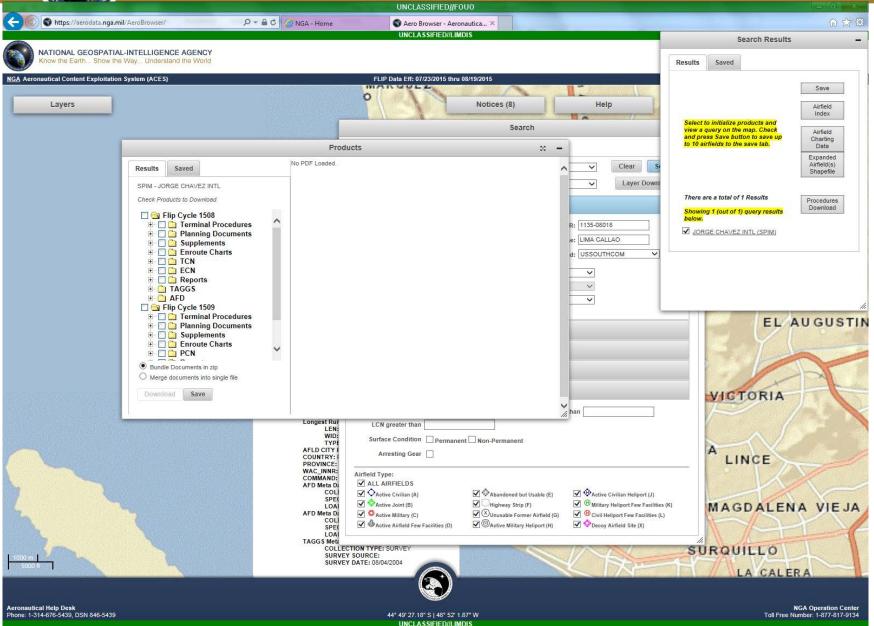
TITLE QUANTITY		
ADDRESSEES	A	в
Caribbean and South America Terminal High and Low	10	3
Caribbean and South America Enroute High Charts	15	3
Caribbean and South America Enroute Low Charts	7	3
Caribbean and South America Enroute Area Charts	7	3
Caribbean and South America Enroute IFR Supplement	7	3
DoD Flight Information Handbook	3	2
General Planning	3	2
Area Planning North and South America	3	2
Area Planning North and South America Special Use		
Airspace	3	2
United States Terminal High/Low Altitude, (Vol 1-22)	1	0
United States Standard Terminal Arrivals	1	0
United States Enroute Low Altitude Charts	1	0
United States Enroute High Chart 01	2	0
United States Enroute High Chart 03	2	0
United States Enroute High Chart 05	2	0
United States Enroute Low Charts (A1/A2)	1	0
United States Enroute IFR Supplement	1	0



Know the Earth Show the Way Understand the World Aeronautical Content Exploitation System (ACES)	FLIP Data Eff: 07/23/2015 thru 08/19/2015 Acro Data Links UWP (NGA) Feedback Acro Fe	edback
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#### NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY Know the Earth... Show the Way... Understand the World UNCLASSIFIED#F0U0 🗟 https://asps.leidos.com/?ICAO=SPIM&p=91992DEFD57EC61B837' 🔎 👻 🔒 🖉 📿 NGA - Home Aero Browser - Aeronautical C... 🚾 NGA: (U) Aeronautical Sour... 🗙 UNCLASSIFIED//LIMDIS NGA NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY Know the Earth... Show the Way... Understand the World NGA Guest | Change Password | Sign out NGA Aero Browser - Aeronautical Source Packaging Service Send Feedback Main Source Directory Advanced Search Email Opt In Filters Source Authority Authority Type: Type: Part Airport / ICAO: - Enter ICAO -Select- $\sim$ $\sim$ $\sim$ Country ~ Airport / ICAO: Approach Type: Runway: City Cross Ref: Y - Enter ICAO $\sim$ $\sim$ \*\*NOTE\*\* Please check all AMENDMENTS, SUPPLEMENTS and NOTAMS to the Host Nation Source documents for current content Active Source List Metadata eAIP Terminals Taskings 🤹 | 🗄 E PACIFIC AIP JORGE CHAVEZ INTL (SPIM) 😱 Check All unCheck All ^ 👂 🚞 Pakistan Generate Download Panama 👂 🧰 Papua New Guinea Merge PDFs instead of Zipping Paraguay 🔺 😑 Peru 🔺 📥 Native Translated Host DoD 🔺 📇 Civil \*\*WARNING\*\* Operational use of Host Nation \*\*WARNING\*\* Operational use of Host Nation 👂 🚞 AIC Effective: 23Jul2015 thru 19Aug2015 Instrument Flight Procedures, Translated Instrument Flight Procedures, Translated 🛯 🗁 AIP Procedures, and Un-Published graphics may require Procedures, and Un-Published graphics may require a safety review by a DoD Terminal Instrument a safety review by a DoD Terminal Instrument Approaches (IAPs) 🔺 😑 AD Procedures (TERPS) authority. Consult your Procedures (TERPS) authority. Consult your ATOGO 2 ILROL 2 RNAV ARR ALFEREZ FAP D F FERNANDINI (SPNC) applicable Service regulations for more applicable Service regulations for more ILS Z RWY 15 ALFEREZ VLADIMIR SARA BAUER (SPAS) information. information. PEROV A PEROV B RNAV ARR ANDAHUAYLAS (SPHY) Effective: Current + 14 Days Effective: Current + 14 Days VORDME RWY 15 DESCENT FOXTROT ATALAYA (SPAY) [Latest effective AMDT incorporated: 19/2014 (28 [Latest effective AMDT incorporated: 19/2014 (28 VORDME RWY 15 DESCENT GOLF CADETE GUILLERMO DEL CASTILLO PAREDES NOV 2014)] NOV 2014) VOR RWY 33 CAP FAP DAVID ABENSUR RENGIFO INTL (SP [Currently incorporated SUPs] [Currently incorporated SUPs] CAP FAP PEDRO CANGA RODRIGUEZ (SPME) AIP Departures (SIDs) CAPITAN CARLOS MARTINEZ DE PINILLOS (S AMVEX DEP RWY 33 CAPITAN FAP GUILLERMO CONCHA IBERICO Aerodrome Data Aerodrome Data AMVEX H ILROL H RWY 15 DEP AERODROME DATA AERODROME DATA CAPITAN FAP VICTOR MONTES INTL (SPYL) AMVEX H ILROL H RWY 15 DEP PG2 CAPT JOSE A QUINONES GONZALES INTL (SF KALAR BTE G CHIMBOTE G RWY 33 DEP STAR(ARR) STAR(ARR) CHACHAPOYAS (SPPY) STAR(ARR) RWY 15 SALINAS 4 ARENA 3 STAR(ARR) RWY 15 SALINAS 4 ARENA 3 KALAR BTE G CHIMBOTE G RWY 33 DEP PG2 CHAGUAL (SPGL) STAR(ARR) RWY 15 SALINAS 4 ARENA 3 (TXT) STAR(ARR) RWY 15 SALINAS 4 ARENA 3 (TXT) CIRO ALEGRIA (SPAC) Other Information STAR(ARR) RWY 15ALDAL 1 ILPIP 2A (TXT) STAR(ARR) RWY 15ALDAL 1 ILPIP 2A (TXT) COMANDANTE FAP GERMAN ARIAS GRAZIAN: ATOGO 2 ILROL 2 RNAV ARR STAR(ARR) RWY 15 CEDRO 4 TEXT STAR(ARR) RWY 15 CEDRO 4 TEXT **JORGE CHAVEZ INTL IFRTKOFF** CONTAMANA (SPCM) STAR(ARR) RWY 15 ALDAL 1 ILPIP 2A STAR(ARR) RWY 15 ALDAL 1 ILPIP 2A CORONEL CARLOS CIRIANI SANTA ROSA INT PEROV A PEROV B RNAV ARR STAR(ARR) RWY 15 CEDRO 4 STAR(ARR) RWY 15 CEDRO 4 SPIM ARPT DIA CORONEL FAP ALFREDO MENDIVIL DUARTE ( STAR(ARR) RWY 15 PISCO 4 STAR(ARR) RWY 15 PISCO 4 CORONEL FRANCISCO SECADA VIGNETTA IN CUTIVIRENI (SPCV) Effective: 20Aug2015 thru 16Sep2015 STAR(ARR)/RNAV STAR(ARR)/RNAV GALILEA (SPGB) STAR(ARR)-RNAV RWY 15 ILMAR 3A ILMAR 3B STAR(ARR)-RNAV RWY 15 ILMAR 3A ILMAR 3B Approaches (IAPs) GEN FAP ARMANDO REVOREDO IGLESIAS (SI (TXT) (TXT) ATOGO 2 ILROL 2 RNAV ARR ILO (SPLO) ILS Z RWY 15 JAEN (SPJE) STAR(ARR)/RNAV/GNSS STAR(ARR)/RNAV/GNSS PEROV A PEROV B RNAV ARR STAR(ARR)-RNAV-GNSS RWY 15 ATOGO 2 ILROL STAR(ARR)-RNAV-GNSS RWY 15 ATOGO 2 ILROL JAUJA (SPJJ) VORDME RWY 15 DESCENT FOXTROT JORGE CHAVEZ INTL (SPIM) 2

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VORDME RWY 15 DESCENT GOLF

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## **QUESTIONS?**