

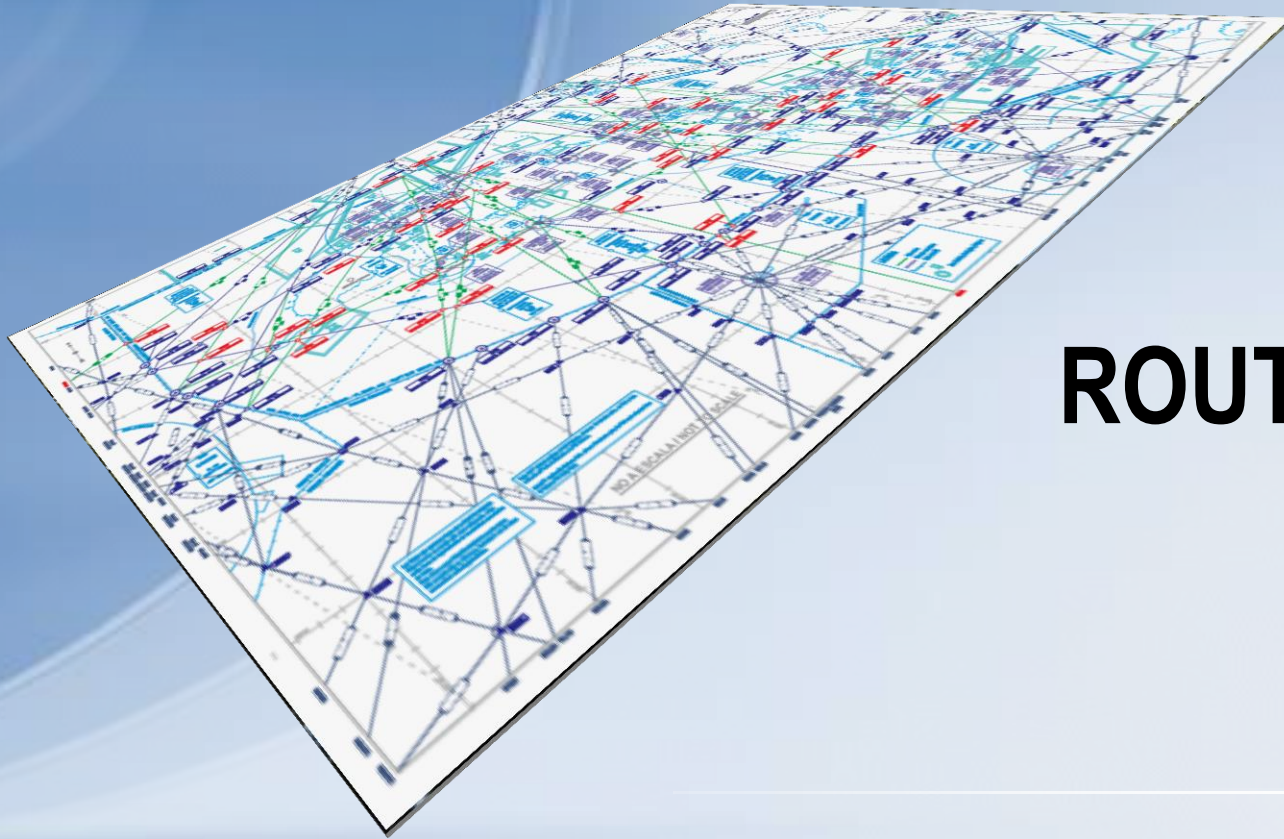
PROJECT PBN ROUTES NETWORK HAVANA FIR

Second ICAO/IATA/CANSO performance-based
navigation (PBN)

Harmonization, modernization and implementation
meeting for the
Caribbean (CAR) region

San José de Costa Rica, Costa Rica
7– 9 December 2016

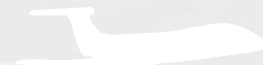




ROUTES NETWORK PBN HAVANA FIR (PROJECT)

**San José de Costa Rica, Costa Rica
7– 9 December 2016**

STRUCTURE OF CURRENT NETWORK ROUTES



TOTAL OF CURRENT ROUTES

LOW ROUTES

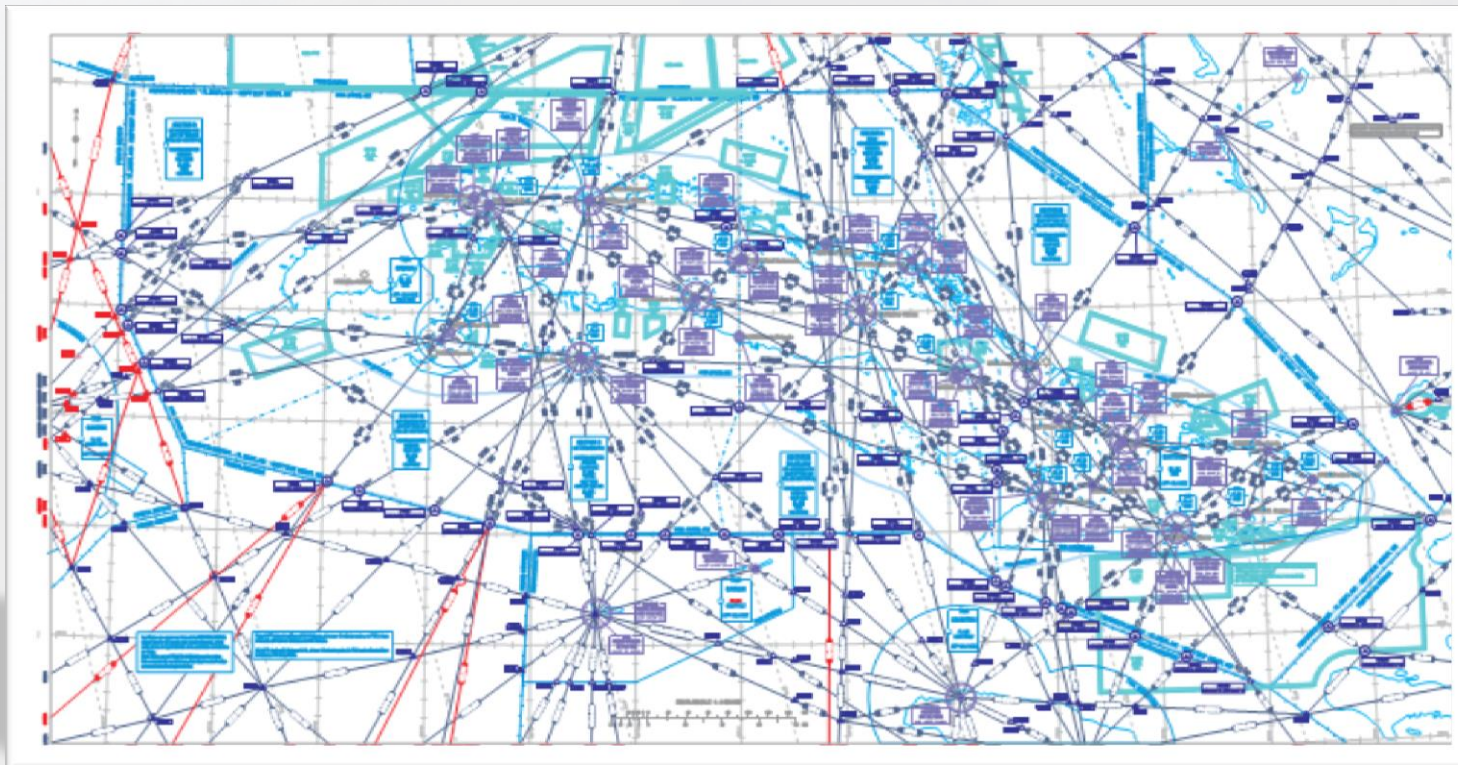
29

HIGH ROUTES

39

TOTAL DISTANCE

7448,9 NM



STRUCTURE OF THE ROUTES NETWORK PROJECT



TOTAL ROUTES OF THE PROJECT

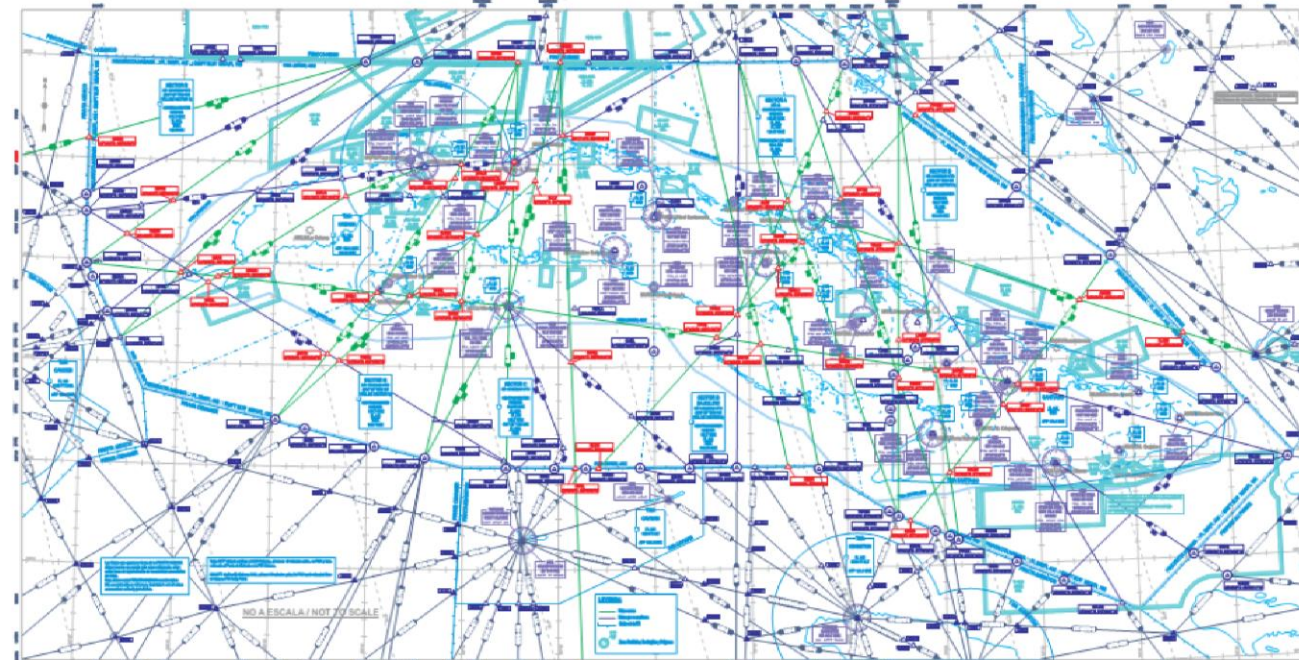
ROUTES

32

TOTAL DISTANCE

7450,3 NM

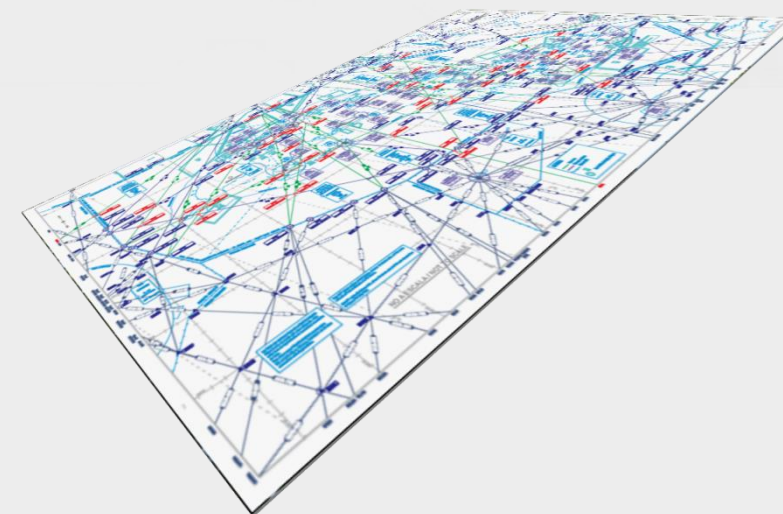
PROPUESTA NUEVA DE LA RED DE RUTAS AEREAS DE LA REPUBLICA DE CUBA

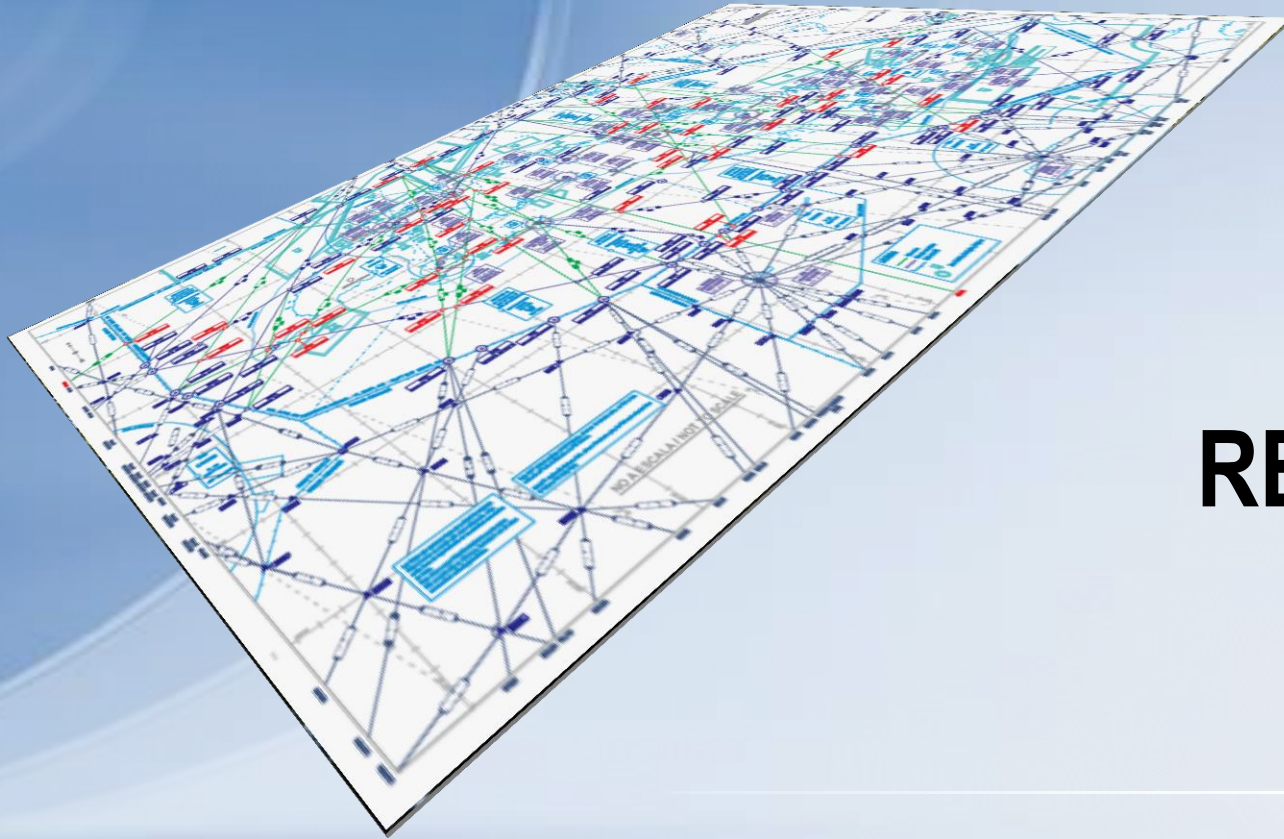


MODIFICATIONS TO THE CURRENT ROUTES NETWORK

TOTAL ROUTES OF THE PROJECT

ROUTES CANCELED	13
ROUTES THAT ARE NOT MODIFIED	11
REALINE ROUTES	15
NEW ROUTES	9





REALINE ROUTES

San José de Costa Rica, Costa Rica
7- 9 December 2016

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



B-503		
CLAVE	LAT	LON
<u>ENAMO</u>	233414N	0772214W
<u>NUEVAS VOR</u>	212342N	0771351W
<u>MANZANILLO VOR</u>	201810N	0770558W
<u>BEMOL</u>	192026N	0770536W
<u>RABAG</u>	191503N	0765158W
VIKRO	190056	0761628W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



B-879		
CLAVE	LAT	LON
VINKA	231202N	0844800W
CANOA	240000N	0830300W
AMEVO	223230N	0852554W
NOSAT	215749N	0855852W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



G-430

CLAVE	LAT	LON
<u>TANIA</u>	240148N	0793142W
URSUS	240000N	0790412W
<u>AVILA VOR</u>	20054N	0784857W
PUTUL	195834N	0781736W
NIBEO	200008N	0783845W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



G-448		
CLAVE	LAT	LON
TADPO	240000N	0811300W
IKBIX	240000N	0811400W
VARDER VOR (UVA)	230129N	0812713W
<u>CAYO LARGO DEL SUR VOR</u>	213618N	0813158W
<u>ATUVI</u>	200000N	0812515W
TULEV	200000N	0813300W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



G-437

CLAVE	LAT	LON
<u>DYNAH</u>	235700N	077547W
<u>IMELA</u>	232514N	0781103W
AVILA VOR (UCA)	220054N	0784857W
FUTAS	212948N	0790730W
GONIS	200000N	0785611W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



G-629

CLAVE	LAT	LON
OVALU	205102N	0740647W
MOA NDB	203856N	-0745550W
SANTIAGO VOR	195840N	0754922W
RABAG	191503N	0765158W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



R-506		
CLAVE	LAT	LON
<u>HAB VOR</u>	225843N	0822535W
NAKRO	225136N	0831913W
<u>KALNO</u>	224100N	0831837W
<u>NUDAL</u>	211548N	0853714W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



R-625

CLAVE	LAT	LON
<u>ENAMO</u>	233414N	0772214W
<u>MANZANILLO VOR</u>	201810N	0770558W
MATOS	192923N	0772826W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



L-212		
CLAVE	LAT	LON
<u>NOSAT</u>	215749N	0855852W
GERONA NDB	214521N	0825241W
<u>CAYO LARGO DEL SUR VOR</u>	213618N	0813158W
<u>PERLA</u>	213450N	0804959W
<u>CAMAGÜEY VOR</u>	212615N	0774803W
<u>HOLGUIN VOR</u>	204753N	0761811W
<u>URLAM</u>	195755N	0732218W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



L-341		
CLAVE	LAT	LON
TANIA	240148N	0793142W
PIGBO	211849N	0790746W
GONIS	200000N	0785611W
NIBEO	200008N	0783845W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



L-345

CLAVE	LAT	LON
IKBIX	240000N	0811400W
VARDER VOR	230129N	0812713W
SELEK	200541N	0822455W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



L-417		
CLAVE	LAT	LON
BORDO	240000N	0782730W
NEFTU	203935N	0772847W
MANZANILLO VOR	201810N	0770558W
<u>PULKA</u>	191620N	0765738W
BEMOL	204727N	0772630W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



L-471		
CLAVE	LAT	LON
TADPO	240000N	0811300W
IKBIX	204727N	0772630W
GERONA NDB	214521N	0825241W
MNELA	214259N	0825444W
PABEL	202712N	0835706W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



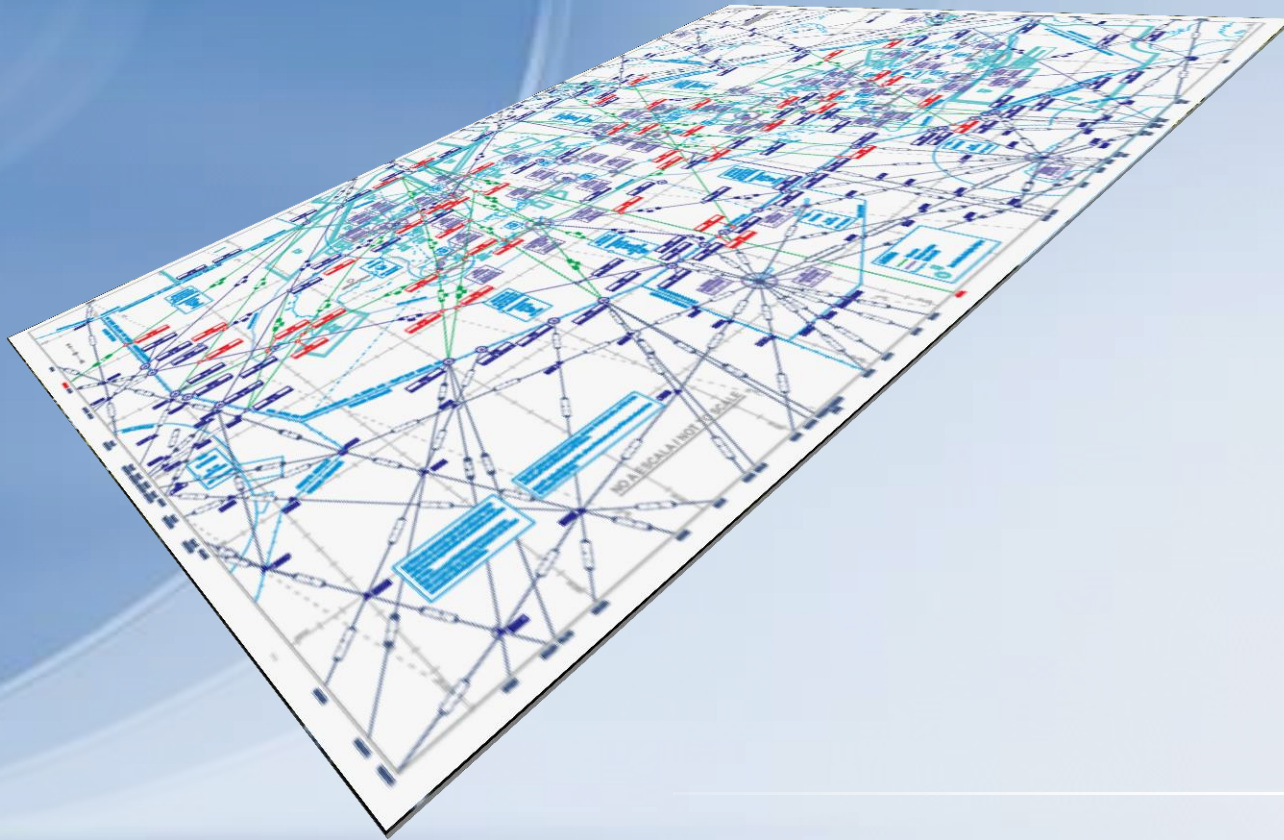
M-330

CLAVE	LAT	LON
POCHO	232617N	0711220W
ENAMO	233414N	0772214W
JARDINES VOR	222803N	0781843W
AVILA VOR	220054N	0784857W
ILASI	195957N	0803621W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



M-331		
CLAVE	LAT	LON
<u>GHANN</u>	<u>220000N</u>	<u>0751000W</u>
HOLGUIN VOR	204753N	0761811W
AMUXI	192656N	0772036W
MATOS	195005N	0770052W



NEW ROUTES

**San José de Costa Rica, Costa Rica
7- 9 December 2016**

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



01

CLAVE	LAT	LON
CANOA	240000N	0830300W
CHINU	231643N	0860000W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



02

CLAVE	LAT	LON
FLAKO	224430N	0840803W
NUDAL	211548N	0853714W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



03		
CLAVE	LAT	LON
SHARQ	240000N	0853000W
NAKRO	225136N	0831913W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



04

CLAVE	LAT	LON
SHARQ	240000N	0853000W
ATUVI	200000N	0812515W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



C1		
CLAVE	LAT	LON
<u>ALILU</u>	230047N	0805844W
PABEL	202712N	0835706W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



C2		
CLAVE	LAT	LON
<u>ALILU</u>	230047N	0805844W
<u>VOR CAYO LARGO</u>	213618N	0813158W
<u>SELEK</u>	200541N	0822455W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



C3

CLAVE	LAT	LON
FUNDI	240000N	0810043W
LEPON	200000N	0805053W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



OR1		
CLAVE	LAT	LON
JARDINES DEL REY VOR	222802N	0781843W
MEBSA	211140N	0742601W

BRIEF SPECIFICATION OF THE MAIN PROPOSALS OF THE PROJECT



OR2

CLAVE	LAT	LON
FRALO	240000N	0784745W
PUTUL	195834N	0781736W
EPSIM	194845N	0780110W

PROJECT PBN ROUTES NETWORK HAVANA FIR



San José de Costa Rica, Costa Rica
7- 9 December 2016



PROJECT PBN ROUTES NETWORK HAVANA FIR

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San José de Costa Rica, Costa Rica
7– 9 December 2016

