

**HAV-MUHA****1-10****AOI****AOI****GENERAL****ATS Hours**

H24

**Airport Information**

**RFF:** CAT 9  
**PCN:** RWY 06/24: 57/F/B/X/T

**Operation****RWY Restriction**

RWY 06: 180° turns in RWY area authorized.

RWY 24: 180° turns in RWY area authorized for ACFT with MAX 25t / 55116lbs only.

**Warnings**

Do not mistake MIL AD San Antonio de los Banos 9NM SW for Havana AD.

Birds in vicinity of AD.

**ARRIVAL****Speed**

MAX IAS 210KT within 25NM UHA at or below FL100.

**Communication****Estimated Time of Arrival**

All ACFT with not more than 40min and less than 20min before ARR should inform to Radio Boyeros through FREQ 126.900 the ETA, quantity of PAX, loads, mail or some other necessary additional information for the service to lend in APN.

After communicating the ETA to Radio Boyeros, each ACFT will receive from the operator the APN and parking PSN.

**DEPARTURE****Take-off Minima**

RWY		06/24	
All ACFT	ft - m/km	0 - 800R/800V	-

**Speed**

MAX IAS 210KT within 25NM UHA at or below FL100.

**Departure Procedure****Departure Note**

RWY 06: L turns after TKOF prohibited for ACFT CAT C and D.

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HAV-MUHA

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AGC / APC APN 3

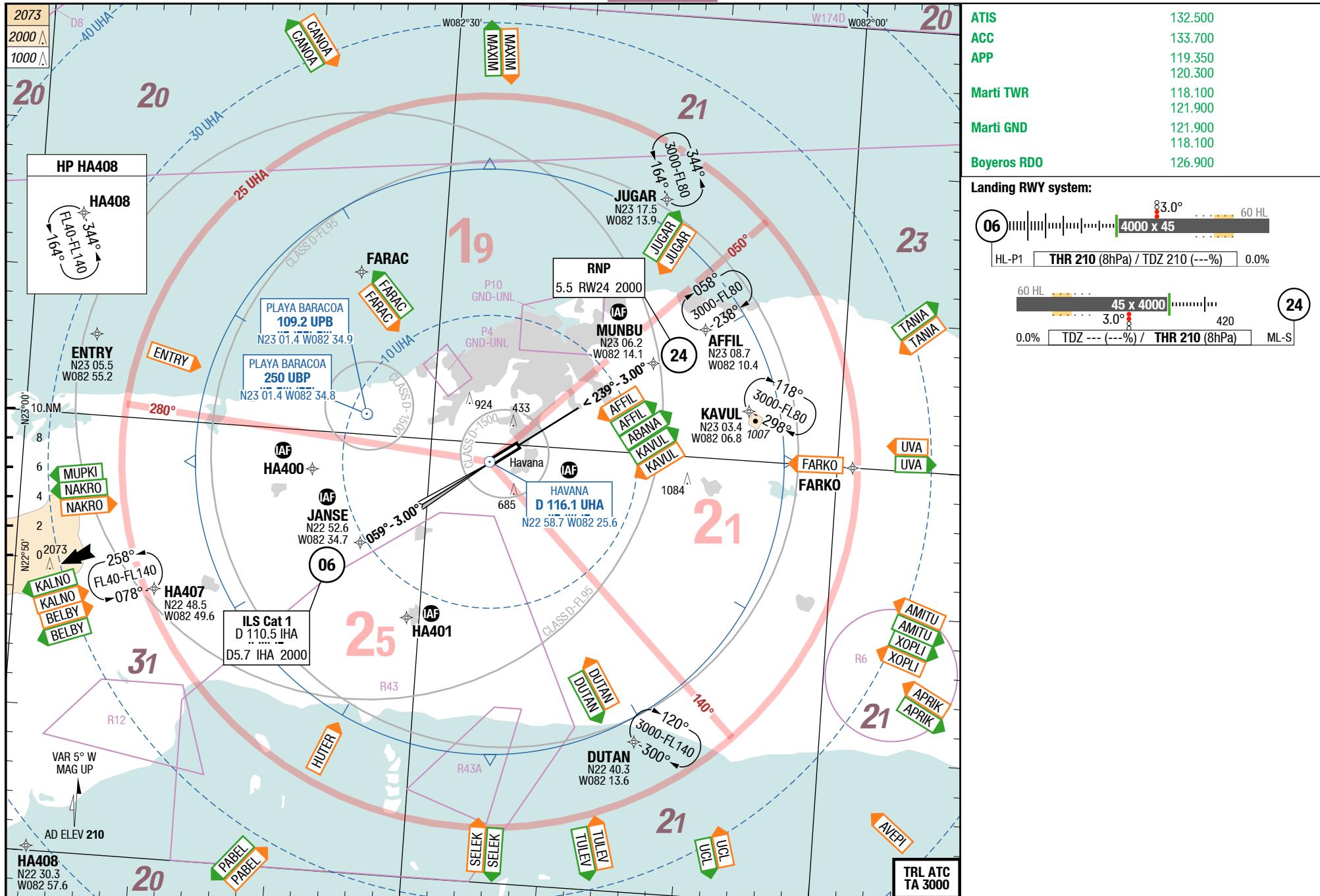
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AFC

2-10



Changes: PROC, WPT, OBST

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HAV-MUHA

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3-20

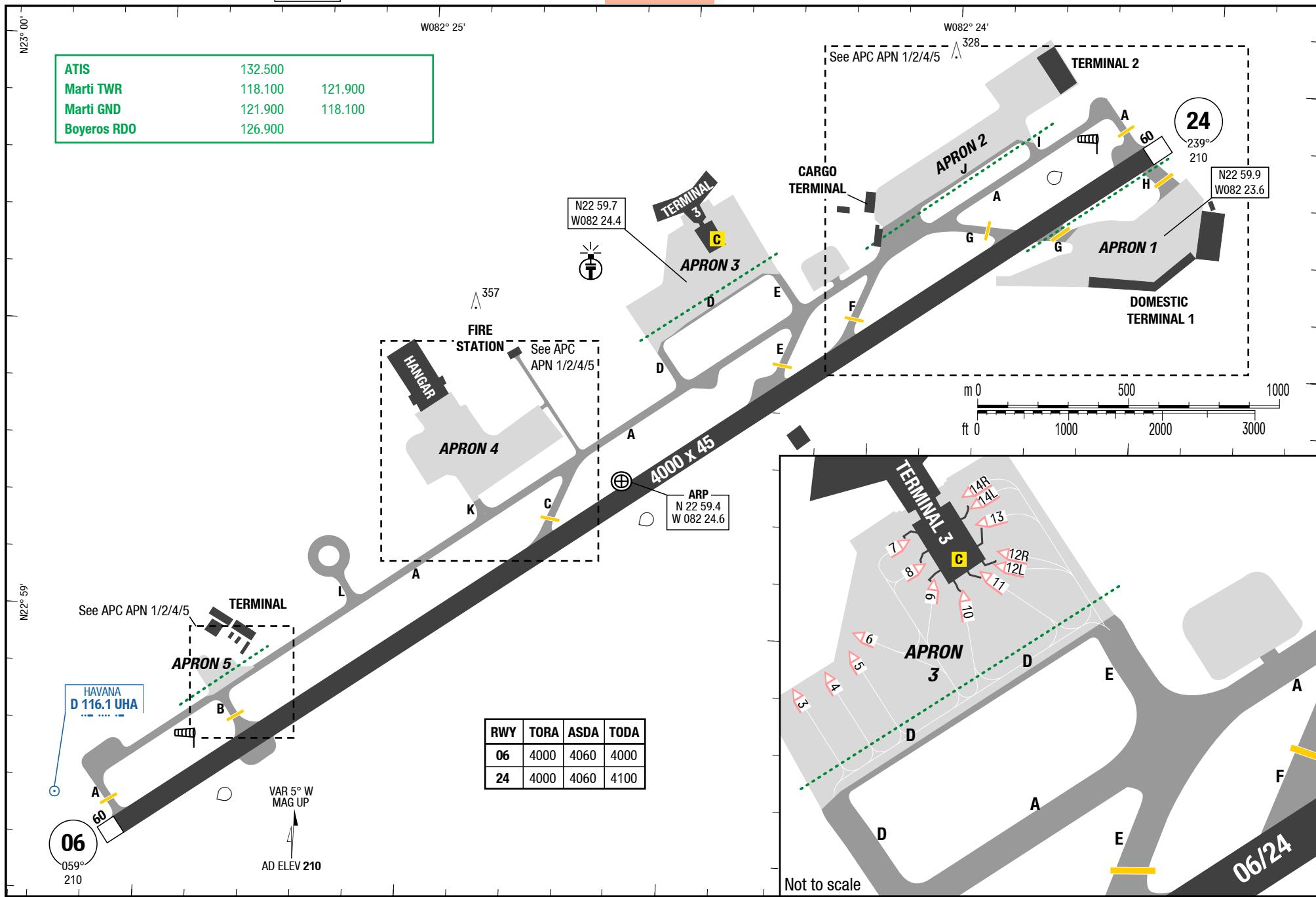
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Effective 12-OCT-2017

05-OCT-2017

HAV-MUHA

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Stand Coordinates

3-30

APC APN 1/2/4/5

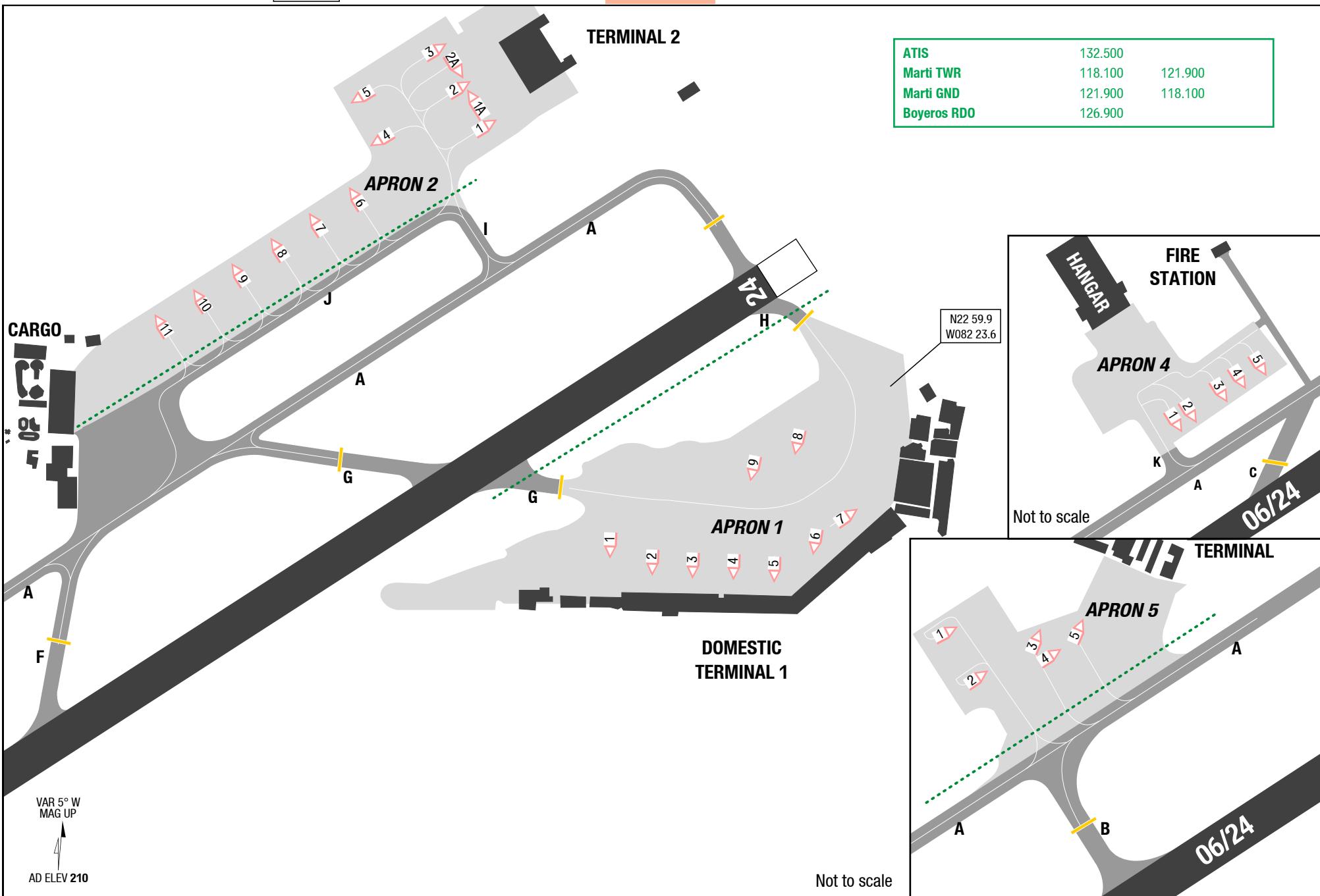
APC

APC

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Stand Coordinates

APC APN 1/2/4/5



Changes: FREQ, VAR

**Stand Coordinates**

**APRON 1**

**1, 2** N22 59.8 W082 23.7  
**3-6** N22 59.8 W082 23.6  
**7** N22 59.8 W082 23.5  
**8** N22 59.9 W082 23.6  
**9** N22 59.8 W082 23.6

**APRON 2**

**1-3** N23 00.1 W082 23.8  
**4, 5** N23 00.1 W082 23.9  
**6, 7** N23 00.0 W082 23.9  
**8-10** N23 00.0 W082 24.0  
**11** N22 59.9 W082 24.0

**APRON 3**

**3-6** N22 59.7 W082 24.5  
**7-14R** N22 59.8 W082 24.4

**APRON 4**

**1-3** N22 59.4 W082 24.8  
**4, 5** N22 59.4 W082 24.7

**APRON 5**

**1-3** N22 59.0 W082 25.3  
**4, 5** N22 59.0 W082 25.4

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HAV-MUHA

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RNAV SIDs RWY 24 (CCO)

#### SIDs RWY 06 (CCO)

4-10 F

## RNAV SIDs RWY 06 (CCO)

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RNAV SIDs RWY 24 (CCO)

BNAV SIDs RWY

This map displays a complex network of navigation routes and safety zones along the Cuban coastline. Key features include:

- Waypoints:** MAXIM, JUGAR, AFFIL, KAVUL, UVA, TULEV, UCL, XOPLI, APRIK, CAYO LARGO DEL SUR, HAVANA, and Caimito.
- Routes:** Red lines represent primary routes, often labeled with identifiers like 19, 20, 21, 22, 23, 24, and 25 MUHA. Blue lines represent alternative routes or backups.
- Safety Zones:** Shaded gray and light blue areas indicate restricted or unsafe zones, such as P10 GND-UNL and P4 GND-UNL.
- Coordinates:** Latitudes (N23°0' to N23°30') and longitudes (W082°00' to W082°30') are marked along the axes.
- Altitude:** A vertical scale on the left shows altitude from 0 to 1084 meters above sea level.
- Flight Levels:** Specific flight levels are indicated by numbers like 162, 155, 6, 13, 14, 37, 45, 9, 1084, and 1000.
- Other Labels:** Includes 'MAX', 'APP 120.300', 'GNSS required', 'RNAV 1', 'VARDER D 114.8 UVA', 'Havana D 116.1 UHA', 'CAYO LARGO DEL SUR D 112.1 UCL', 'TRL ATC TA 3000', and 'AD ELEV 210'.

Changes: PROC, ALT, chart layout, OBST, PROC renumbered

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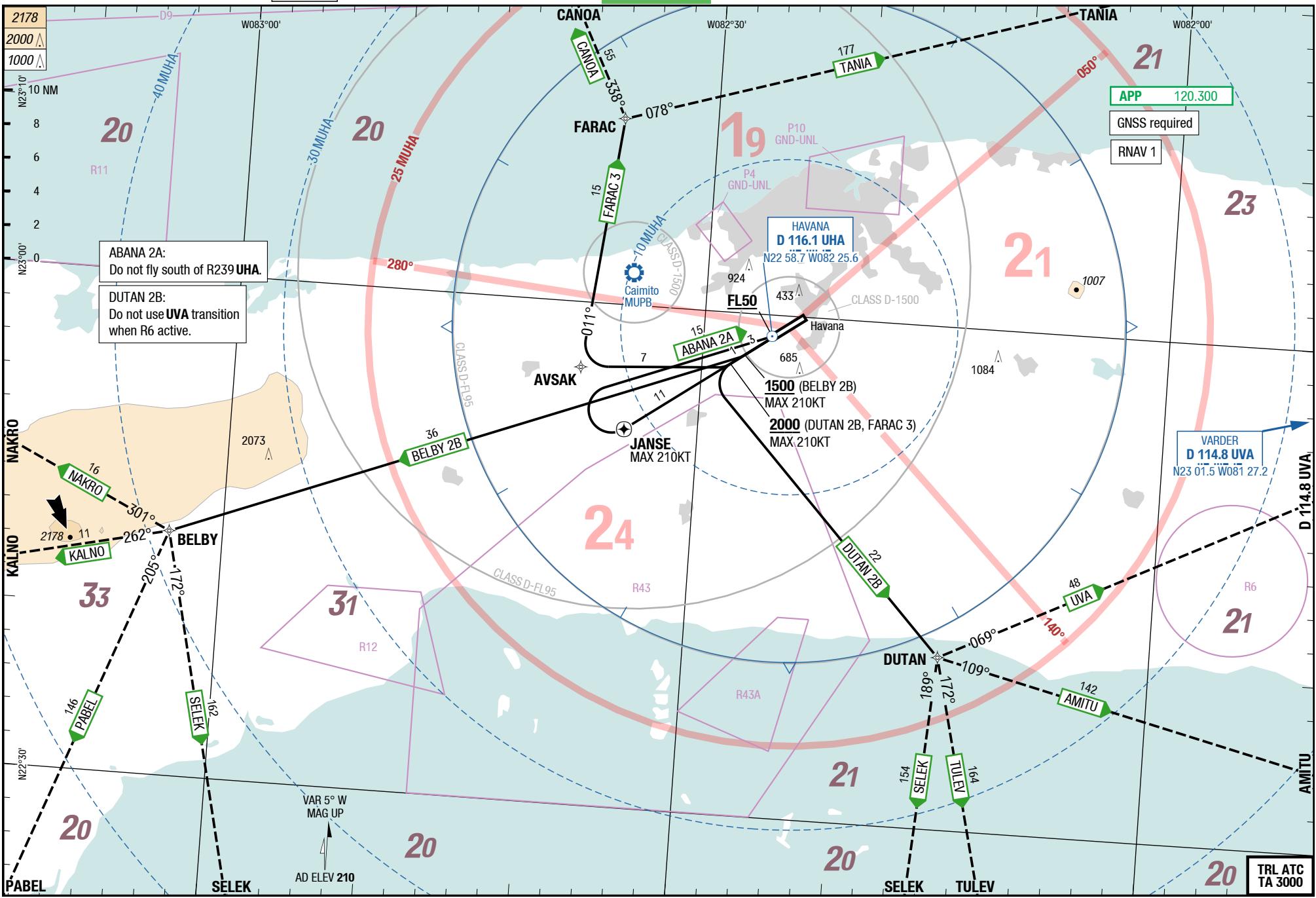
HAV-MUHA

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4-20 RNAV SIDs RWY 24 (CCO)

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RNAV SIDs RWY 24 (CCO)



**HAV-MUHA****5-10****RNAV SIDs RWY 06 (CCO)****ABANA 3C / AFFIL 2 / JUGAR 3 / KAVUL 3A**

RWY 06 (059°)

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 06</b>	
<b>ABANA 3C 120.300</b>	059° [FL40+ ;K210- ;R] - DCT UHA	UHA MNM FL60
<b>AFFIL 2 120.300</b>	DCT EPRIM [K210-] - AFFIL [K210-]  <b>TRANSITION</b>	
	<b>TANIA</b> AFFIL [K210-] - TANIA	
<b>JUGAR 3 120.300</b>	DCT EPRIM [K210-] - AFFIL [K210-] - JUGAR  <b>TRANSITION</b>	
	<b>MAXIM</b> JUGAR - <u>MAXIM</u>	
	<b>MUPKI</b> JUGAR - MUPKI	
<b>KAVUL 3A 120.300</b>	059° [A2000+ ;K210-] - DCT KAVUL  <b>TRANSITION</b>	
	<b>APRIK</b> KAVUL - APRIK	
	<b>CAYO LARGO DEL SUR (UCL)</b> KAVUL - UCL	
	<b>TULEV</b> KAVUL - <u>TULEV</u>	
	<b>VARDER (UVA)</b> KAVUL - UVA	
	<b>XOPLI</b> KAVUL - XOPLI	

**HAV-MUHA****5-20****RNAV SIDs RWY 24 (CCO)****ABANA 2A / BELBY 2B / DUTAN 2B / FARAC 3****RWY 24 (239°)**

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 24</b>	
<b>ABANA 2A 120.300</b>	DCT <u>JANSE</u> [K210- ;R] - DCT UHA	UHA MNM FL50
<b>BELBY 2B 120.300</b>	239° [A1500+ ;K210-] - DCT BELBY	
	<b>TRANSITION</b>	
	<b>KALNO</b> BELBY - KALNO	
	<b>NAKRO</b> BELBY - NAKRO	
	<b>PABEL</b> BELBY - <u>PABEL</u>	
	<b>SELEK</b> BELBY - <u>SELEK</u>	
<b>DUTAN 2B 120.300</b>	239° [A2000+ ;K210- ;L] - DCT DUTAN	
	<b>TRANSITION</b>	
	<b>AMITU</b> DUTAN - AMITU	
	<b>SELEK</b> DUTAN - <u>SELEK</u>	
	<b>TULEV</b> DUTAN - <u>TULEV</u>	
	<b>VARDER (UVA)</b> DUTAN - UVA	
<b>FARAC 3 120.300</b>	239° [A2000+ ;K210-] - DCT AVSAK - FARAC	
	<b>TRANSITION</b>	
	<b>CANOA</b> FARAC - <u>CANOA</u>	
	<b>TANIA</b> FARAC - TANIA	

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HAV-MUHA

**Cuba Havana Jose Marti Intl**

RNAV STARs RWY 24 (CDO)

## **6-10 RNAV STARs RWY 06 (CDO)**

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RNAV STARs RWY 24 (CDO)

## RNAV STARs RWY 06 (CDO)

This figure is a detailed aeronautical chart of the northern coast of Cuba and the surrounding waters. It shows various navigation routes, waypoints, and air traffic control sectors. Key features include:

- Varadero MUVR**: Located near Havana.
- Havana D 116.1 UHA**: Located near Havana, with coordinates N22 58.7 W082 25.6.
- CAYO LARGO DEL SUR D 112.1 UCL**: Located near the southern tip of Cuba, with coordinates N21 36.3 W081 32.0.
- Flight Levels (FL)**: FL140, FL40, FL100, etc.
- Route Numbers**: 20, 21, 22, 23, 24, 25, 31, 33.
- Waypoints**: CANOA, BELBY, JANSE, HAVANA, DUTAN, AVEPI, AMITU, APRIK, PABEL, SELEK, TULEV, HUTER, SELEK, TULEV, JUGAR, TANIA, UVA, Nakro, Kalno, Huter, Selék, Tulev, Jugar, Tania, Muha, Varder, Caimito MUPB, and Havana.
- Air Traffic Control Sectors**: IAF HA400, IAF HA407, IAF HA401, IAF HA408, and Caimito MUPB.
- Altitudes**: 1000, 2000, 2276 meters above sea level.
- GNSS Required** and **RNAV 1** indicators.
- ATIS APP** information: 132.500, 120.300.
- ALTs in brackets are MOCAs**.

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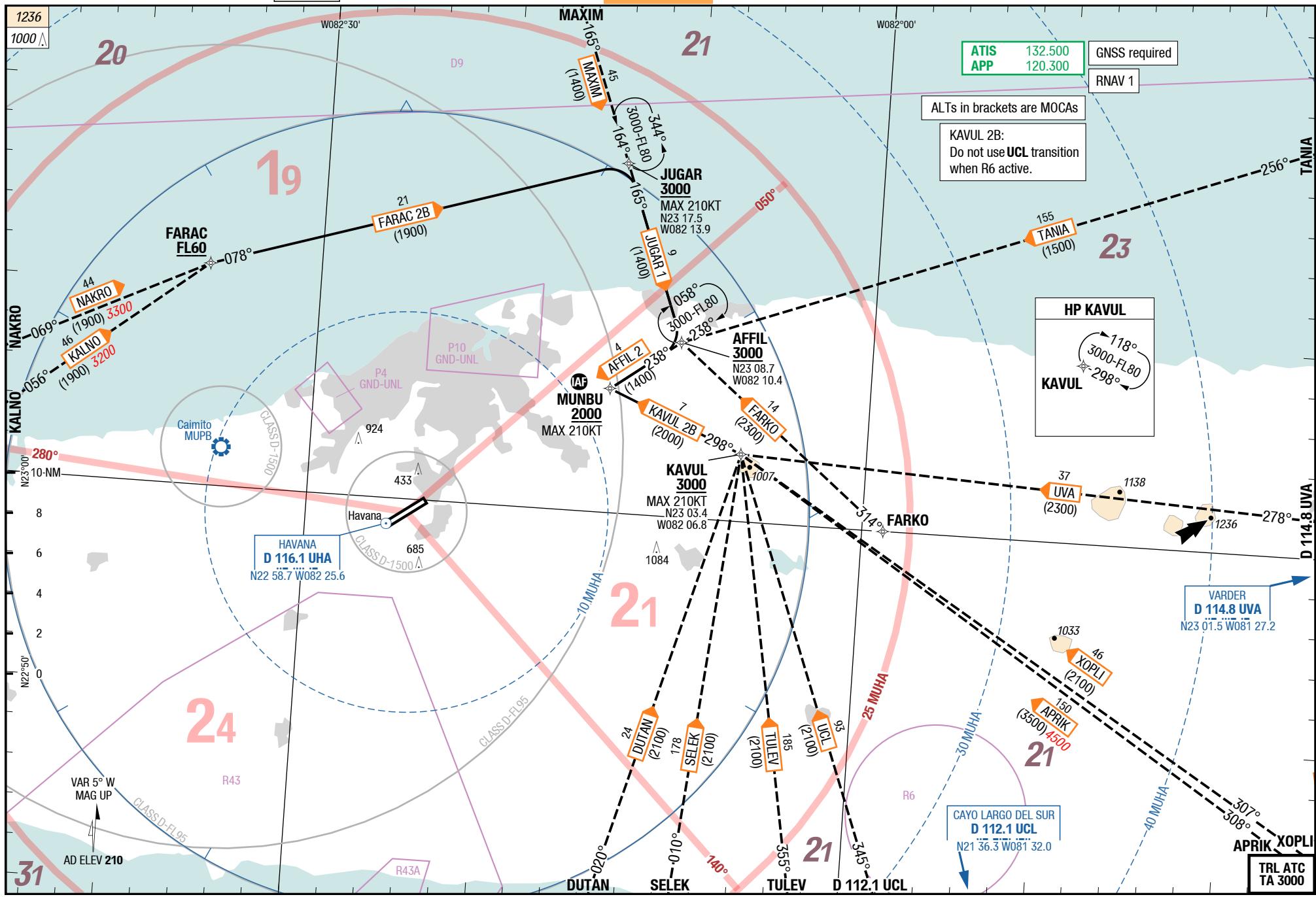
Jose Marti Intl **Havana Cuba**

## **6-20 RNAV STARs RWY 24 (CDO)**

STAR

STAR

**RNAV STARs RWY 24 (CDO)**



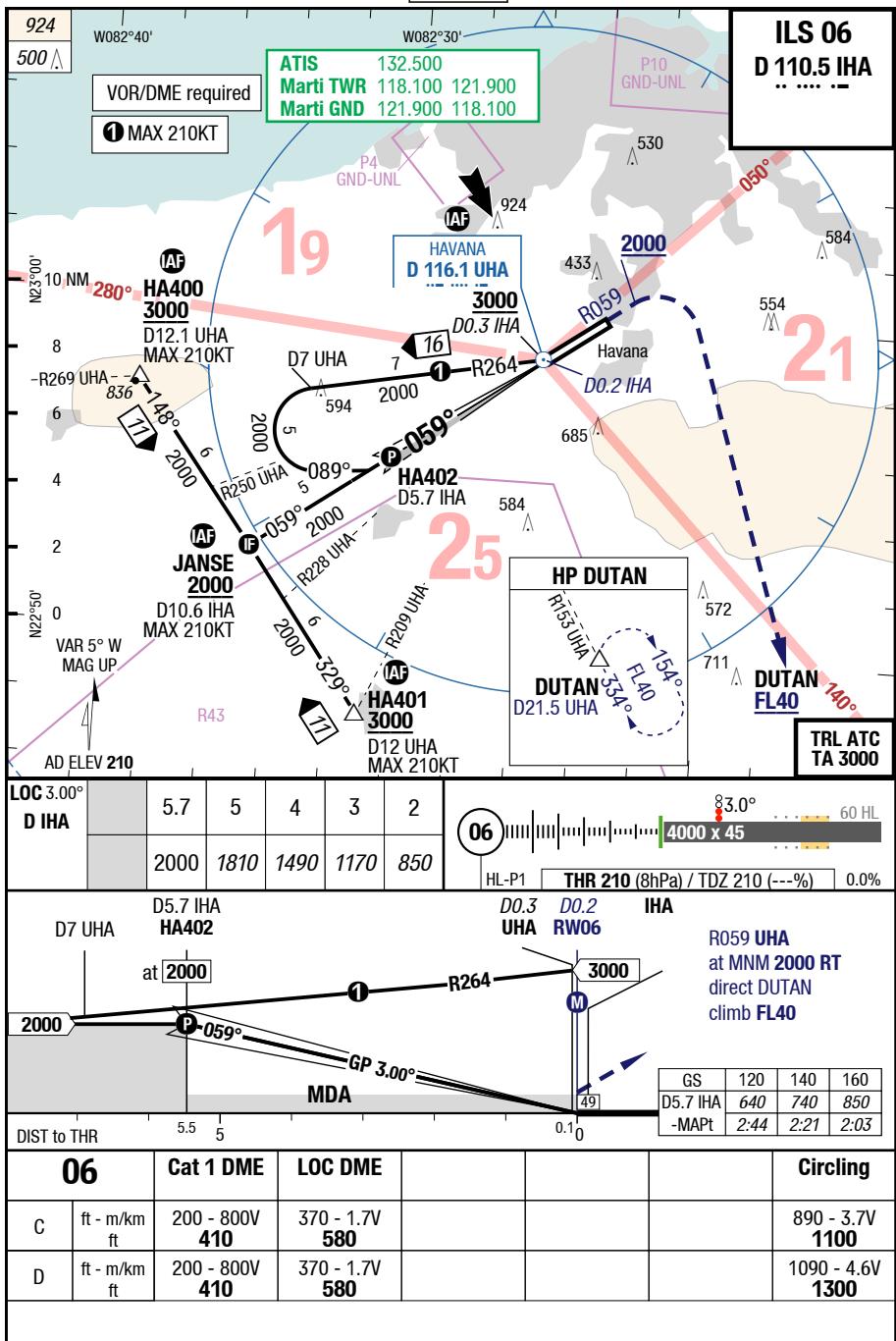
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Cuba Havana Jose Marti Intl

HAV-MUHA

7-10

ILS 06



Changes: OBST

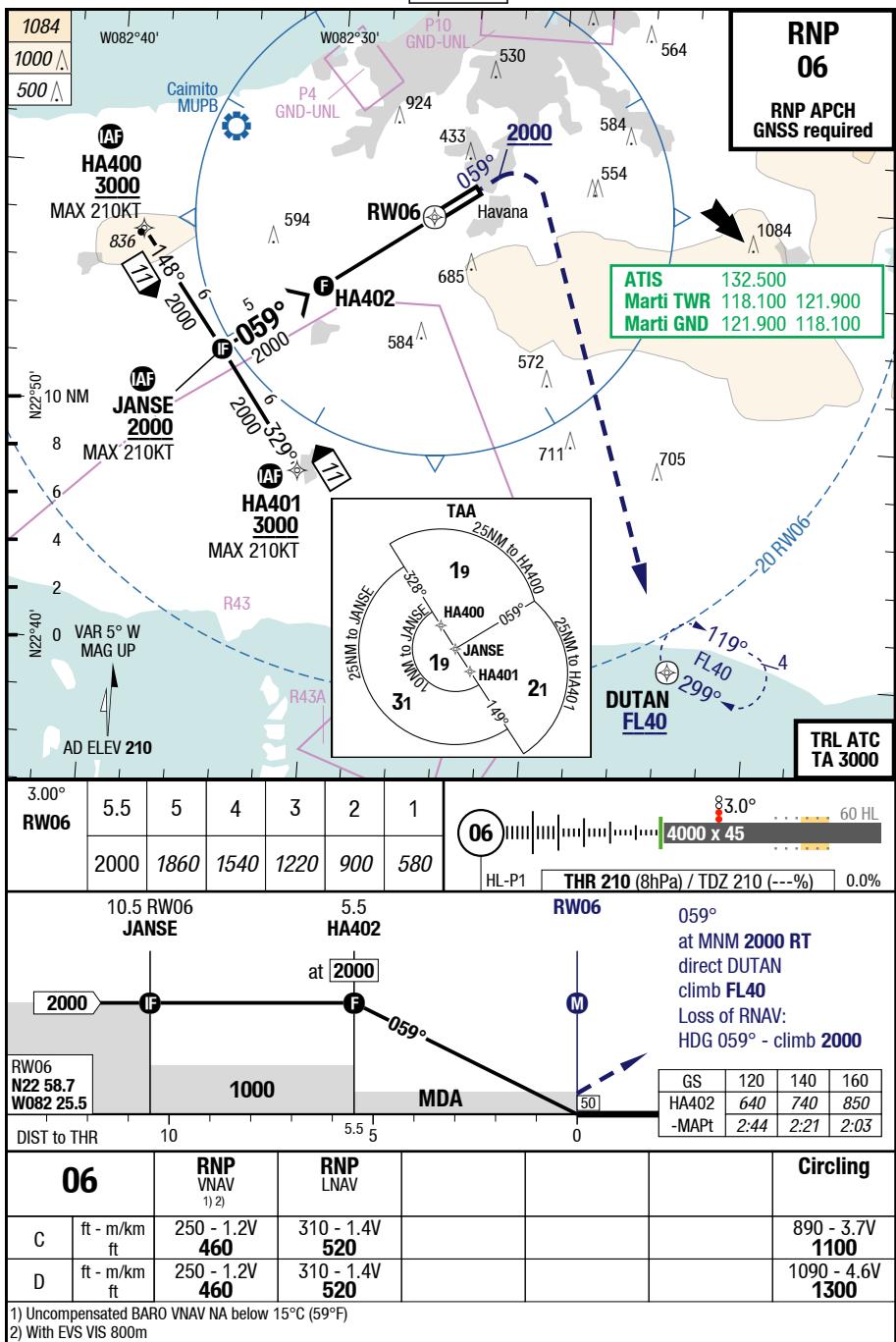
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HAV-MUHA

7-30

RNP 06

IAC

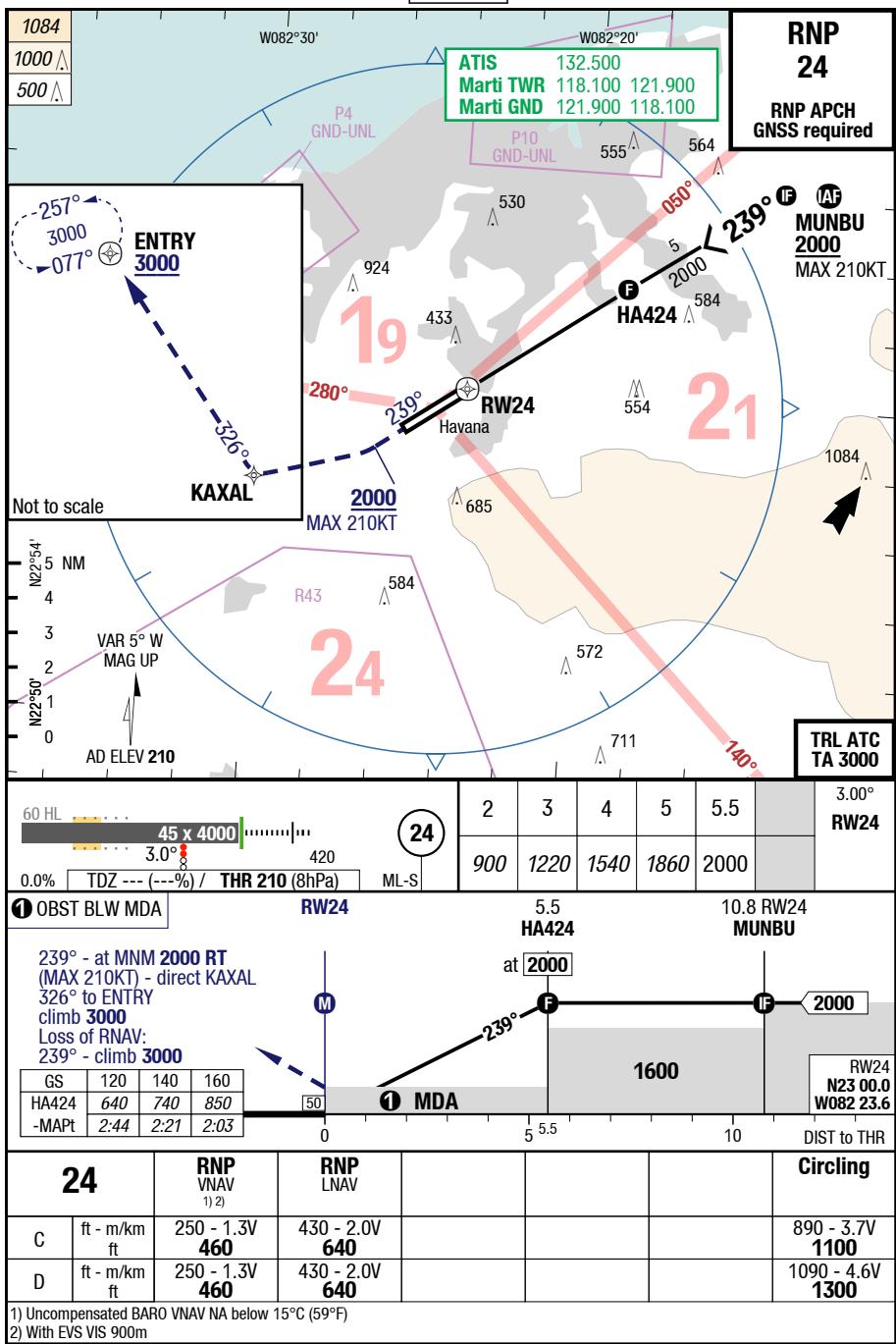


Changes: OBST

14-JUN-2018

**HAV-MUHA**

7-40

**RNP 24**

Changes: OBST

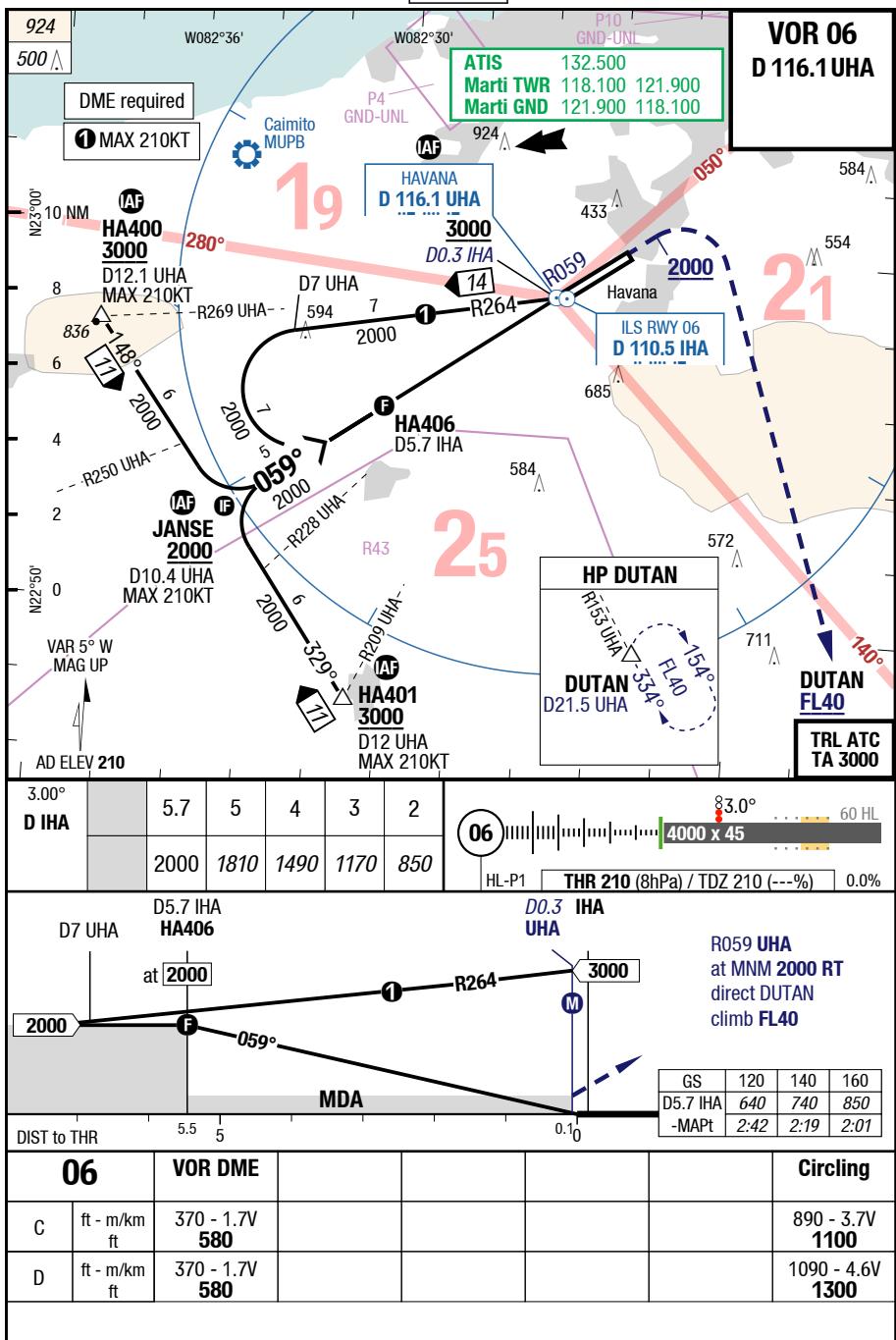
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HAV-MUHA

7-50

VOR 06



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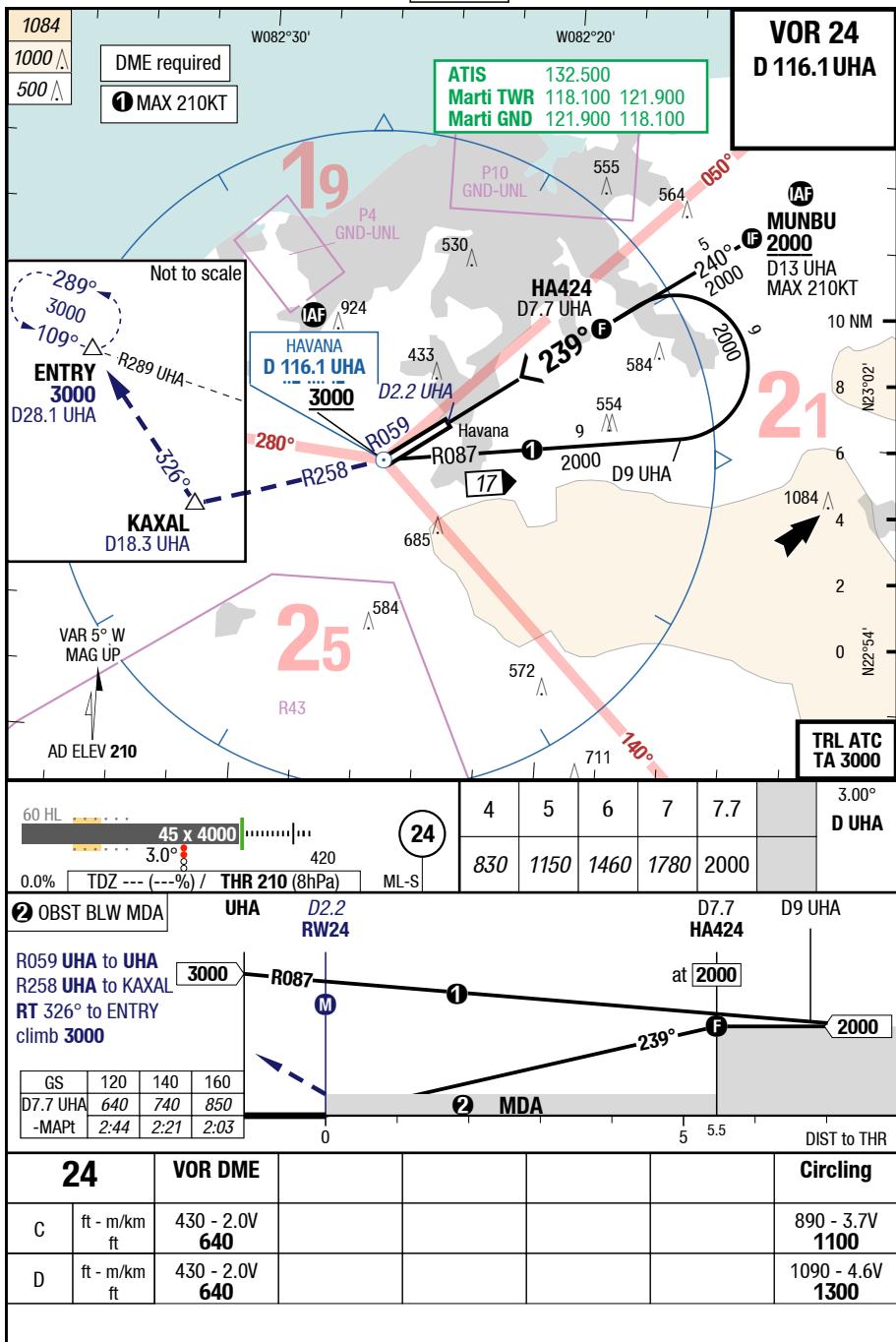
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HAV-MUHA

7-60

VOR 24

IAC



14-JUN-2018

HAV-MUHA

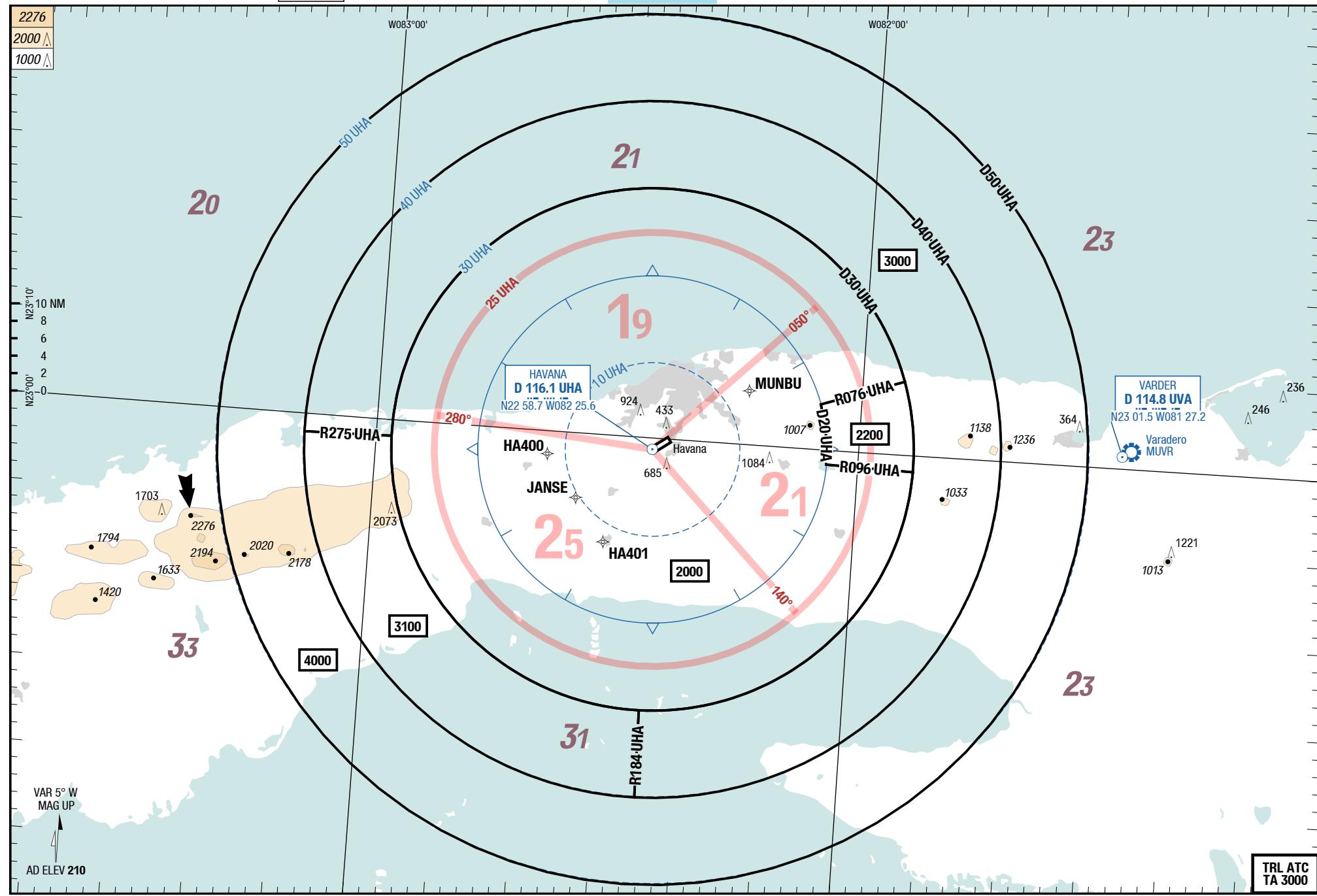
Cuba Havana Jose Marti Intl

MRC  
MRC

Jose Marti Intl Havana Cuba

MRC  
MRC

8-10



Changes: OBST