

## List of pages in this Trip Kit

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Airport Information For LROP

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Revision Letter For Cycle 16-2023

Change Notices

Notebook

## General Information

Location: BUCHAREST ROU  
ICAO/IATA: LROP / OTP  
Lat/Long: N44° 34.27', E026° 05.10'  
Elevation: 314 ft

Airport Use: Joint-Use  
Daylight Savings: Observed  
UTC Conversion: -2:00 = UTC  
Magnetic Variation: 5.0° E

Fuel Types: 100 Octane (LL), Jet A-1  
Repair Types: Minor Airframe, Minor Engine  
Customs: Yes  
Airport Type: IFR  
Landing Fee: Yes  
Control Tower: Yes  
Jet Start Unit: No  
LLWS Alert: No  
Beacon: No

Sunrise: 0412 Z  
Sunset: 1600 Z

## Runway Information

Runway: 08L  
Length x Width: 11480 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 314 ft  
Lighting: Edge, ALS, Centerline, TDZ

Runway: 08R  
Length x Width: 11486 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 314 ft  
Lighting: Edge, ALS, Centerline, TDZ

Runway: 26L  
Length x Width: 11486 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 304 ft  
Lighting: Edge, ALS, Centerline

Runway: 26R  
Length x Width: 11480 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 306 ft  
Lighting: Edge, ALS, Centerline, TDZ

## Communication Information

ATIS: 118.500

Otopeni Tower: 118.805

Otopeni Tower: 120.900 Secondary

Otopeni Ground: 121.700 Secondary

Otopeni Ground: 121.855

Otopeni Clearance Delivery: 121.700 Secondary

Otopeni Clearance Delivery: 121.955

Bucharest Approach: 120.600 Secondary

Bucharest Approach: 119.415

Bucharest Direct (Approach Control Radar): 120.600 Secondary

Bucharest Direct (Approach Control Radar): 127.155

Muntenia And Oltenia Information: 129.400 Flight Info Service RCO

LROP/OTP  
HENRI COANDA

JEPPESEN

BUCHAREST, ROMANIA

16 DEC 22

20-1P

Eff 29 Dec

AIRPORT BRIEFING

**1. GENERAL****1.1. ATIS**

ATIS 118.5

**1.2. NOISE ABATEMENT PROCEDURES****1.2.1. GENERAL**

NADP1 shall be applied for all take-offs from RWYs 08R/26L and 08L/26R.

**1.2.2. REVERSE THRUST**

Avoid reverse thrust after landing, consistent with safe operation of ACFT, especially between 2300-0700LT.

**1.2.3. RUN-UP TESTS**

ATC will approve idle ground engine runs.

Permission for ground testing in excess of idle must commence in the Engine Test Bay and must be requested through the marshaller, ext. 3426, at all times.

Times of operation are 0600-2300LT.

Engine testing on the open airfield will only be allowed for Chapter 2 ACFT between 0900-1700LT and Chapter 3 ACFT between 0600-2300LT. Propeller-driven ACFT are to be classified as Chapter 3.

**1.2.4. USE OF APU**

The APU is permitted functioning maximum 15 minutes after block-on time and may be started over 30 minutes before standard.

**1.3. LOW VISIBILITY PROCEDURES (LVP)**

RWY 08R instrument approach operation type B - CAT IIIA. LVTO only for RVR not less than 125m.

RWY 08L instrument approach operation type B - CAT II. LVTO only for RVR not less than 125m.

RWY 26R and RWY 26L instrument approach operation type B - CAT I. LVTO only for RVR not less than 125m.

The preparation phase will be implemented when RVR is 800m or horizontal VIS falls below 1500m or ceiling/vertical VIS of 500'.

The operations phase will be commenced when RVR falls below 550m (VIS falls below 800m) or ceiling/vertical VIS is below 200'.

LVP will be terminated when RVR is greater than 800m (horizontal VIS is greater than 1500m) and ceiling/vertical VIS is greater than 300'.

Simulated LVP should be requested 30 minutes prior to estimated time of departure or arrival.

If available visual aids do not provide sufficient taxi information, pilots may ask for Follow-me car assistance.

Pilots will report "RWY vacated" only when the ACFT has completely passed the end of the green/yellow color coded TWY centerline lights.

Red stop bars at all intersections of TWYs with RWYs and no entry bar on rapid exit TWYs W and V.

**1. GENERAL****1.4. OPERATION OF MODE S TRANSPONDERS WHEN ACFT IS ON THE GROUND**

ACFT operators shall ensure that the Mode S transponders are able to operate when ACFT is on the ground, according to ICAO specifications (Annex 10, Volume IV, 3.1.2.8.5.3 and 3.1.2.10.3.10).

Aircrews shall select the assigned Mode A code and activate the Mode S by selecting AUTO, ON, XPNDR, or the equivalent according to specific installation and assigned Mode A code under the following conditions:

- From request of push-back or taxi, whichever is earlier;
- After landing, continuously until the ACFT is fully parked on the stand.

The transponder shall be switched off immediately after parking.

Whenever the ACFT is capable of reporting flight identification (i.e. call sign used in flight), the flight identification should also be entered from the request for push-back or taxi, whichever is earlier (through the FMS or the transponder control panel). Aircrews shall use the format as defined in field 7 of the ICAO flight plan for entry of the flight identification.

To ensure that the performance of the systems based on SSR frequencies (including airborne TCAS units and SSR radars) is not compromised, TCAS shall not be activated before receiving the clearance to line up. After landing, it shall be deactivated after vacating the RWY.

**1.5. TAXI PROCEDURES**

Following TWYs are classified as ACFT stand taxilanes and apron TWYs:

TWY L: EASA code C - ACFT stand taxilane

TWY I: EASA code D - apron TWY

TWY M: EASA code E - apron TWY

TWY C: EASA code E - apron TWY

On the aprons ACFT are permitted to taxi only at the indispensable minimum engine speed.

Taxiing of ACFT with wingspan greater than 171'/52m is permitted only with engines 1 and 4 on idle power.

Pilots are to delay call "RWY vacated" until ACFT has completely passed the end of green/yellow TWY centerline lights.

Orange guidelines are mandatory for:

A300, A310, B707-320, B757-200, B767-200, B777, DC10-30, IL18, IL62, IL76, IL86, L100-30, L1011-500, TU154, B747-200 and B747-400.

ACFT intending to use apron 3 will be stopped by marshaller on taxilane T.

ACFT positioning on apron 3 or in Hangar will be executed by Ion Tiriac Air personnel with towing equipment.

On LROP following taxiing restrictions/limitations are in force:

- ACFT with outer main gear wheel span greater than 30'/9m in intersections of TWY O-P, O-N, N-C-G, N-S, shall taxi only orange markings and ONLY when RVR is greater than 350m.
- ACFT with outer main gear wheel span greater than 30'/9m are not allowed to taxi in intersection TWY P-C.

**1.6. PARKING INFORMATION**

Floodlight poles close to stands 106, 107, 109, 110, 120 and 121.

Apron 1: Stands 101 thru 107 and 109 thru 115 are equipped with stand entry guidance SAFEDOCK T-1.

Stands 101 thru 107, 107R thru 109, 109L thru 116 and 117 on apron 1 push-back required.

Stands 116B, 117B, 118 on apron 1 push-back or power-back required.

Stands 107A thru 107L, 109A thru 109R, 116A, 119B and 119C, 120A thru 120C on apron 1 alternative parking stands.

LROP/OTP  
HENRI COANDA

JEPPESEN

16 DEC 22

20-1P2

Eff 29 Dec

BUCHAREST, ROMANIA

AIRPORT BRIEFING

**1. GENERAL**

Stands 201A-205A, 202B and 204B on apron 2 alternative parking stands.

Parking at 201 and all alternative stands will be performed only with marshaller assistance.

Stands 119 thru 122 on apron 1 and stands 201 thru 222 on apron 2:

Self-parking procedure, stop ACFT when yellow STOP marking is in line with pilots eye view at an angle of 90° to the lead-in line.

**1.7. OTHER INFO**

Birds flocks within APT area.

Caution advised when taking off and landing.

**2. ARRIVAL****2.1. CAT II/III OPERATIONS**

RWY 08R approved for CAT II/III and RWY 08L approved for CAT II operations, special aircrew and ACFT certification required.

**2.2. TAXI PROCEDURES****2.2.1. STANDARD TAXI ROUTES****2.2.1.1. RWY 08R**

Taxi Route	Apron	TWY to be followed	Remarks	Low Visibility Operations
Arrival 1	Apron 1	D, C, N, S or B	For ACFT with wingspan less than 171'/52m only.	-
Arrival 2		D, P, O, N, S, or B	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
Arrival 3		G, N, S or B	-	
Arrival 4	Apron 2	D, C	For ACFT with wingspan less than 171'/52m only.	-
Arrival 5		D, stand 201A	-	
Arrival 6		G, C	For ACFT with wingspan less than 171'/52m only.	
Arrival 7		G, N, O, P, stand 201A	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
Arrival 8	Apron 3	D, P, taxilane T	For ACFT with wingspan less than 118'/36m only.	-
Arrival 9		G, C, P, taxilane T		

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JEPPESEN

16 DEC 22

20-1P3

Eff 29 Dec

BUCHAREST, ROMANIA

AIRPORT BRIEFING

**2. ARRIVAL****2.2.1.2. RWY 26L\***

Taxi Route	Apron	TWY to be followed	Remarks	Low Visibility Operations
Arrival 10	Apron 1	G	-	N/A
Arrival 11		A, B		
Arrival 12	Apron 2	G, C	For ACFT with wingspan less than 171'/52m only.	
Arrival 13		G, N, O, P, stand 201A	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	
Arrival 14	Apron 3	G, C, P, taxilane T	For ACFT with wingspan less than 118'/36m only.	
Arrival 15		G, N, O, P, taxilane T		

\* Not authorized for LVO.

**2.2.1.3. RWY 08L**

Taxi Route	Apron	TWY to be followed	Remarks	Low Visibility Operations
Arrival 16	Apron 1	V, O, N, S or B	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
Arrival 17		O, N, S or B		
Arrival 18	Apron 2	V, O, P, stand 201A	For ACFT with wingspan less than 171'/52m and with OMGWS less than 30'/9m only.	
Arrival 19		O, P, C		
Arrival 20	Apron 3	V, O, P, taxilane T	For ACFT with wingspan less than 118'/36m only.	
Arrival 21		O, P, taxilane T		

**2.2.1.4. RWY 26R\***

Taxi Route	Apron	TWY to be followed	Remarks	Low Visibility Operations
Arrival 22	Apron 1	W, O, N, S or B	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	N/A
Arrival 23		N, S or B		
Arrival 24	Apron 2	W, P, stand 201A	For ACFT with wingspan less than 171'/52m only.	
Arrival 25		N, C		
Arrival 26	Apron 3	W, P, taxilane T	For ACFT with wingspan less than 118'/36m only.	

\* Not authorized for LVO.

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JEPPESEN

13 MAR 20

20-1P4

BUCHAREST, ROMANIA  
AIRPORT BRIEFING

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## 2. ARRIVAL

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### 2.3. RWY OPERATIONS

#### 2.3.1. RWY OCCUPANCY TIME

Pilots are reminded that rapid exit from the landing RWY minimises the occurrences of go-arounds and allows ATC to apply minimum spacing on final approach. To ensure minimum RWY occupancy time, pilots will avoid rolling slowly on RWY. ATC expect all ACFT to vacate the RWYs within time frames detailed as follows:

- RWY 08R/26L - 90 seconds
- RWY 08L/26R - 60 seconds

If ACFT are not able to vacate RWY within these time frames crews will notify ATC at once.

#### 2.3.2. USE OF RWY 08R/26L BY HIGHER CODE LETTER ACFT

ACFT with code higher than aerodrome code 4D (wingspan greater than 171'/52m and Outer Main Gear Wheel Span (OMGWS) greater than 30'/9m) shall vacate RWY 08R via TWY D; if not able, shall wait for towing and push-back procedures, and will shut down engine no.1 and no.4 (if applicable).

If ACFT is not able to vacate RWY on TWY D, pilot may decide and request ATC to back-track the RWY using turn pad 26L.

### 2.4. PARKING PROCEDURES

When taxiing into ACFT stands, ACFT shall generally not stop in curves between the centerlines of apron TWYs or ACFT stand taxi lanes and the centerlines of ACFT stands so as to avoid the further appliance of break-away power.

If in the course of a maneuver as described above, an ACFT inadvertently comes to a stop, prior to increasing engine power again to continue, the pilot shall notify Ground Control and await further instructions.

Parking of ACFT at positions not provided with SEG is only permitted according to the signals of the marshaller.

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## 3. DEPARTURE

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### 3.1. CLEARANCE DELIVERY

Enroute clearance shall be requested to OTOPENI Clearance MAX 20 minutes prior to EOBT or MAX 35 minutes prior to CTOT.

### 3.2. START-UP, PUSH-BACK AND TAXI PROCEDURES

#### 3.2.1. GENERAL

Pilots shall only ask for start-up and push-back permission after obtaining confirmation from handling agent that is ready for the maneuver. The anti-collision light must be switched on just prior to push-back.

ATC will consider every ACFT at the holding position as able to commence the line-up and take-off roll immediately after the departure clearance is issued. Pilots not able to comply shall advise OTOPENI Ground as early as possible but ultimately before transfer to OTOPENI Tower.

#### 3.2.2. OPERATIONAL USE OF INTERSECTION TAKE-OFFS

In principle all jet ACFT must use the full RWY length available for noise abatement reasons.

Take-offs from intersection with TWY may be allowed at ATC discretion (for operational reasons) or pilot request.

**3. DEPARTURE**

**3.2.3. STANDARD TAXI ROUTES**

**3.2.3.1. RWY 08R/26L\***

Apron	Taxi Route	Holding Position	TWY to be followed	Remarks	LVTO
Apron 1	DEP 1	A	A	ACFT with OMGWS greater than 30'/9m shall taxi following strictly center- line markings/ lights and with reduced speed.	-
	DEP 2		Taxilane M, B, A		
	DEP 3	G	TWY G, turn right, taxi to the end of RWY and line-up THR.	-	
	DEP 4		TWY G and line-up for take-off with reduced declared distances.		
	DEP 5	D**	C, D	For ACFT with wingspan less than 171'/52m only.	
	DEP 6		B or S, N, O, P, D	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	

**LROP/OTP**  
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**JEPPESEN**

**BUCHAREST, ROMANIA**

20 NOV 20

20-1P6

Eff 3 Dec

**AIRPORT BRIEFING**

**3. DEPARTURE**

Apron	Taxi route	Holding position	TWY to be followed	Remarks	LVTO
Apron 2	DEP 7	A	C, B, A	For ACFT with wingspan less than 171'/52m only.	-
	DEP 8		Stand 201A, P, O, N, B, A	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
	DEP 9	G	TWY C, G, turn right taxi to the end of RWY and line-up THR or line-up for take-off with reduced declared distances.	For ACFT with wingspan less than 171'/52m only.	-
	DEP 10		Stand 201A, P, O, N, G	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
	DEP 11	D**	C, D	For ACFT with wingspan less than 171'/52m only.	-
	DEP 12		Stand 201A, D	-	-

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**3. DEPARTURE**

Apron	Taxi Route	Holding Position	TWY to be followed	Remarks	LVTO
Apron 3	DEP 13	A	P, C, B, A	-	-
	DEP 14	G	TWY P, C, G, turn right taxi to the end of RWY and line-up THR or take-off with reduced declared distances.		
	DEP 15		TWY P, O, N, G, turn right taxi to the end of RWY and line-up THR or take-off with reduced declared distances.		
	DEP 16	D**	P, D		

\* Guided Low Visibility Take-offs (LVTO) are permitted only on RWY 08R.

\*\* The 26L THR turn pad is authorized for ACFT with distance from the main gear to cockpit less than 64'/19.48m and Outer Main Gear Wheel Span (OMGWS) less than 36'/11m.

**3.2.3.2. RWY 08L/26R\***

Apron	Taxi Route	Holding Position	TWY to be followed	Remarks	LVTO
Apron 1	DEP 17	N	B or S, N	-	-
	DEP 18	O	B or S, N, O	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	Not available with RVR less than 350m, for ACFT with OMGWS greater than 30'/9m.
	DEP 19		S, N or B, C, P, O	For ACFT with wingspan less than 171'/52m and with OMGWS less than 30'/9m only.	-

**LROP/OTP**  
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**BUCHAREST, ROMANIA**

20 NOV 20

20-1P8

Eff 3 Dec

**AIRPORT BRIEFING**

**3. DEPARTURE**

Apron	Taxi Route	Holding Position	TWY to be followed	Remarks	LVTO
Apron 2	DEP 20	N	C, N	For ACFT with wingspan less than 171'/52m only.	-
	DEP 21		C, P, O, N	For ACFT with wingspan less than 171'/52m and with OMGWS less than 30'/9m only.	
	DEP 22		Stand 201A, P, O, N	ACFT with OMGWS greater than 30'/9m shall follow orange markings in TWY intersections.	
	DEP 23	O	Stand 201A, P, O		
	DEP 24		C, N, O	For ACFT with wingspan less than 171'/52m only.	
Apron 3	DEP 25	N	P, O, N	-	
	DEP 26		P, C, N		
	DEP 27	O	P, O		
	DEP 28		P, C, N, O		

\* Guided Low Visibility Take-offs (LVTO) are permitted only on RWY 08L.

LROP/OTP  
HENRI COANDA

JEPPESEN

20 NOV 20

20-1P9

Eff 3 Dec

BUCHAREST, ROMANIA

AIRPORT BRIEFING

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### 3. DEPARTURE

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#### 3.3. RWY OPERATIONS

##### 3.3.1. RWY OCCUPANCY TIME

Pilots should be ready for line-up in sequence according to ATC instructions. Cockpit checks should be completed prior to line-up and any checks requiring completion whilst on the RWY should be kept to the minimum required. Pilots should ensure that they are able to commence the take-off roll immediately after receiving take-off clearance.

When cleared for take-off ATC will expect movement within MAX 30 seconds (of take-off clearance being issued).

Pilots not able to comply with the above requirements shall notify ATC before entering RWY or immediately after.

Pilots who require to back-track RWY must notify ATC prior to arrival at the holding point.

##### 3.3.2. USE OF RWY 08R/26L BY HIGHER CODE LETTER ACFT

For departure 26L ACFT with code higher than aerodrome code 4D (wingspan greater than 171'/52m and Outer Main Gear Wheel Span (OMGWS) greater than 30'/9m) shall take-off from TWY D intersection.

#### 3.4. OTHER

##### 3.4.1. ADDITIONAL DEPARTURE INSTRUCTIONS

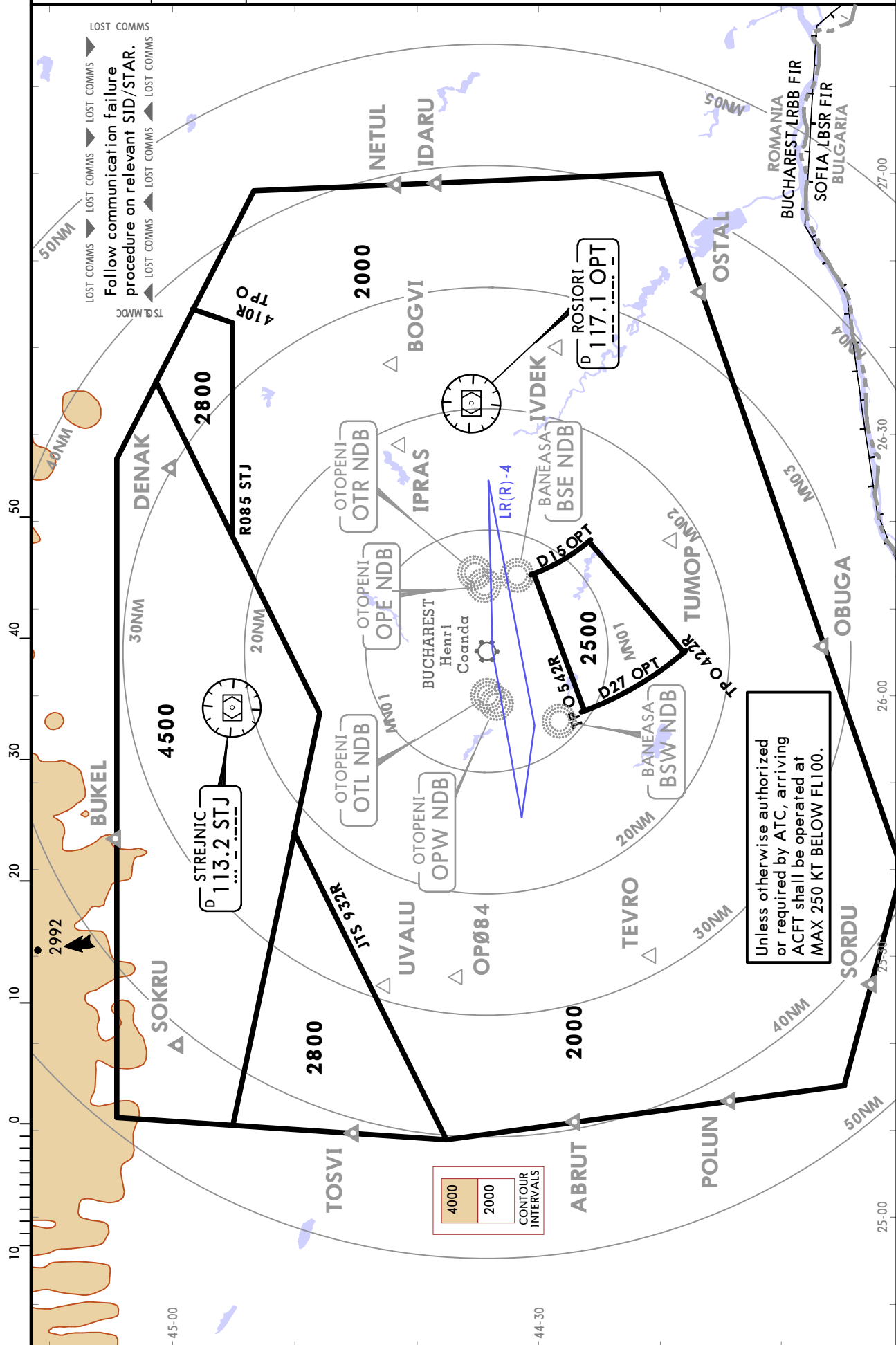
Especially propeller-driven ACFT can expect additional departure instructions. These instructions may be added to the enroute or take-off clearance and may comprise a specific heading or temporary altitude restriction. Such additives amend the relevant part of the SID only.

# LROP/OTP HENRI COANDA

**JEPPESSEN**  
8 FEB 19 **20-1R**

# BUCHAREST, ROMANIA RADAR MINIMUM ALTITUDES

BUCHAREST Approach (R) <b>119.415</b> <b>120.6</b>	Apt Elev <b>314</b>	Alt Set: hPa (MM on request)    Trans level: By ATC    Trans alt: 4000 1. Chart only to be used for cross-checking of altitudes assigned while under radar control. 2. During LR(R)-4 activity, IFR flight is not affected.
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LROP/OTP  
HENRI COANDA

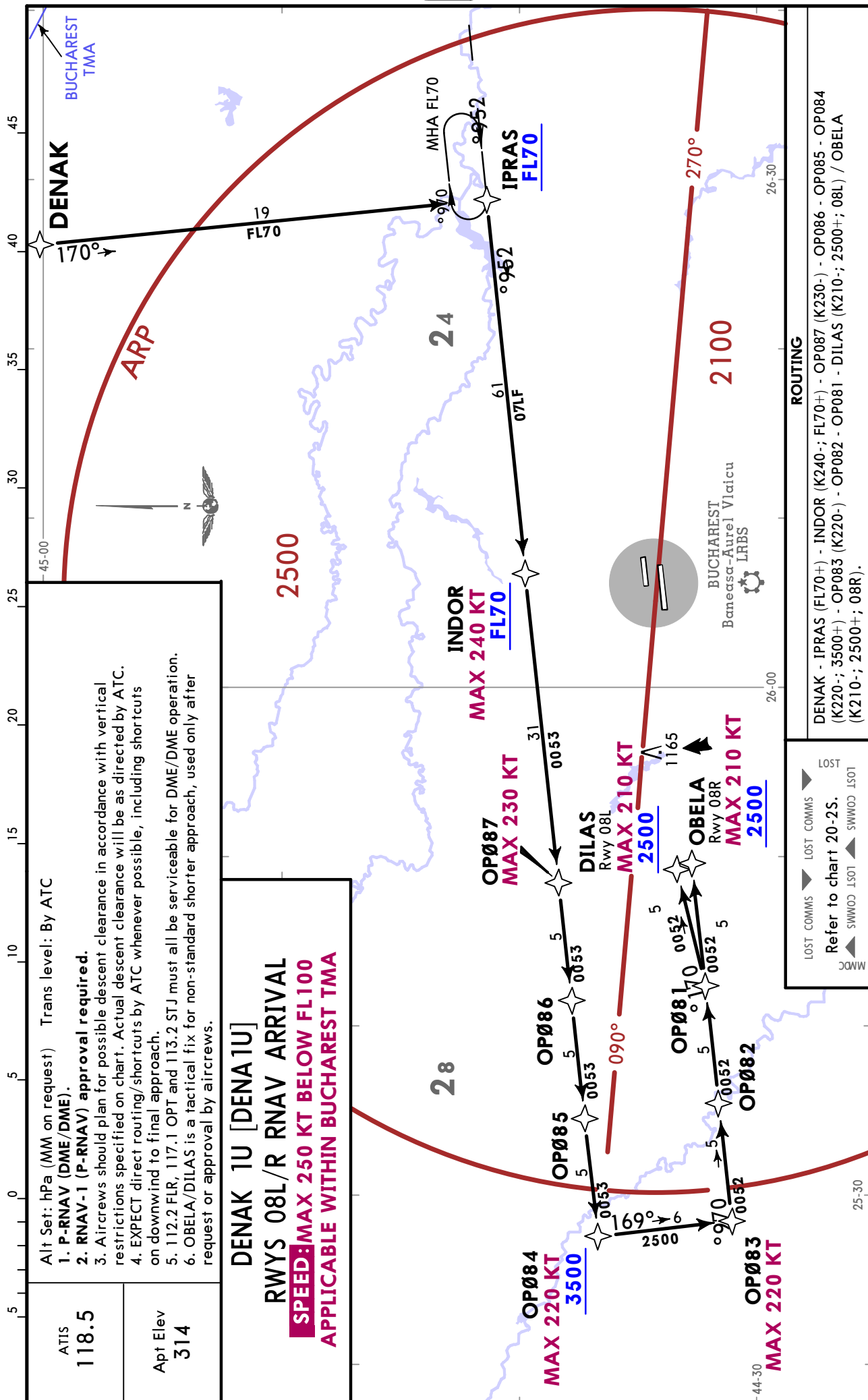
JEPPesen

BUCHAREST, ROMANIA

31 MAR 17

20-2

RNAV STAR



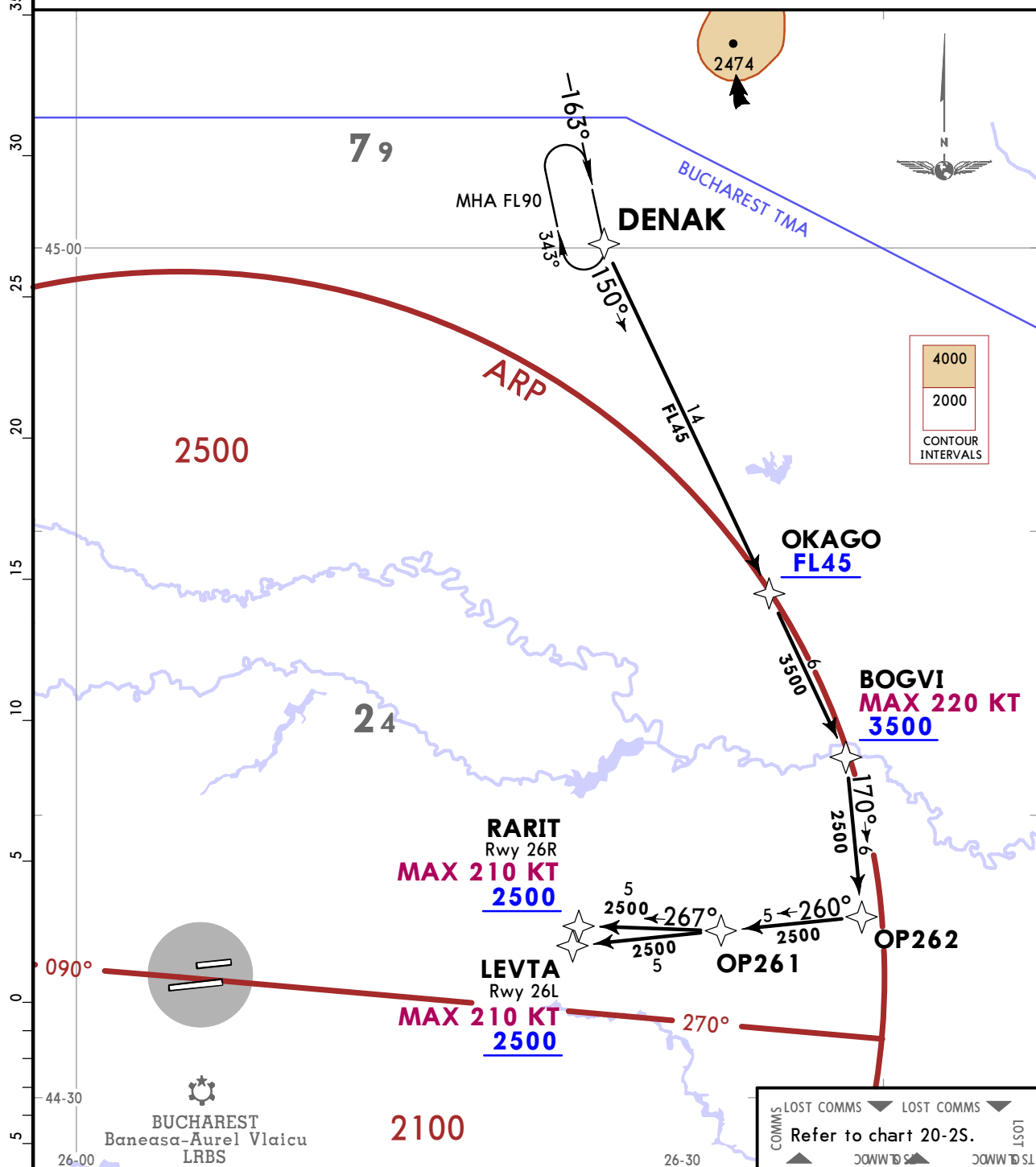
**LROP/OTP**  
**HENRI COANDA**

**JEPPESSEN**  
31 MAR 17 **(20-2A)**

**BUCHAREST, ROMANIA**  
**RNAV STAR**

ATIS <b>118.5</b>	Alt Set: hPa (MM on request) Trans level: By ATC 1. <b>P-RNAV (DME/DME)</b> . 2. <b>RNAV-1 (P-RNAV) approval required</b> . 3. Aircrews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC. 4. EXPECT direct routing/shortcuts by ATC whenever possible, including shortcuts on downwind to final approach. 5. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation. 6. RARIT/LEVTA is a tactical fix for non-standard shorter approach, used only after request or approval by aircrews.
Apt Elev <b>314</b>	

**DENAK 2X [DENA2X]**  
**RWYS 26L/R RNAV ARRIVAL**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**



**ROUTING**

DENAK - OKAGO (FL45+) - BOGVI (K220-; 3500+) - OP262 - OP261 - LEVTA (K210-; 2500+; 26L)/ RARIT (K210-; 2500+; 26R).

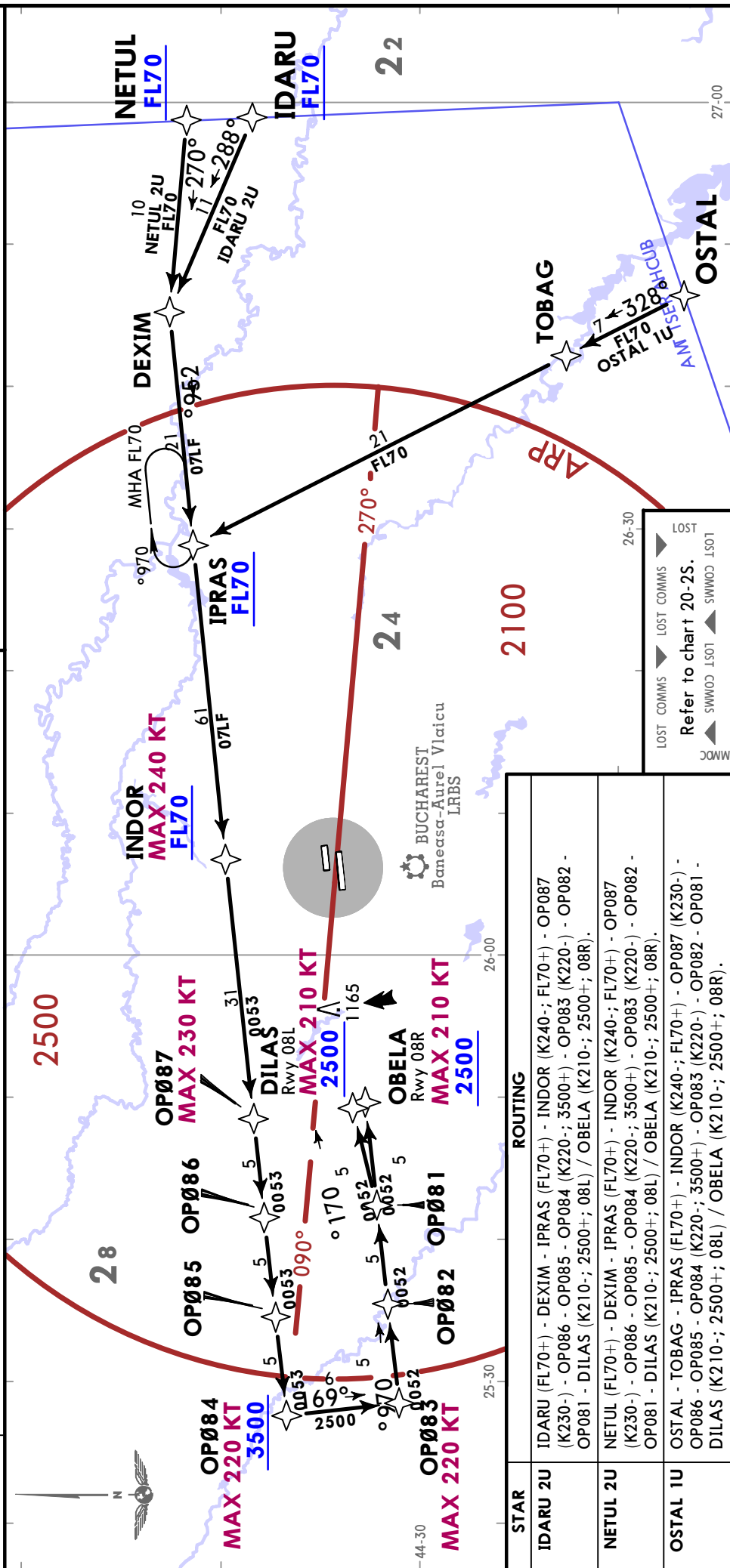
**LROP/OTP**  
**HENRI COANDA**

**IDARU 2U [IDAR2U], NETUL 2U [NETU2U]**  
**OSTAL 1U [OSTA1U]**  
**RWYS 08L/R RNAV ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**

Alt Set: hPa (MM on request) Trans level: By ATC  
1. **P-RNAV (DME/DME).**  
2. **RNAV-1 (P-RNAV) approval required.**

- Aircrews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC.
- EXPECT direct routing/shortcuts by ATC whenever possible, including shortcuts on downwind to final approach.
- 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.
- OBELA/DILAS is a tactical fix for non-standard shorter approach, used only after request or approval by aircrews.

Apt Elev  
**314**



**ROUTING**

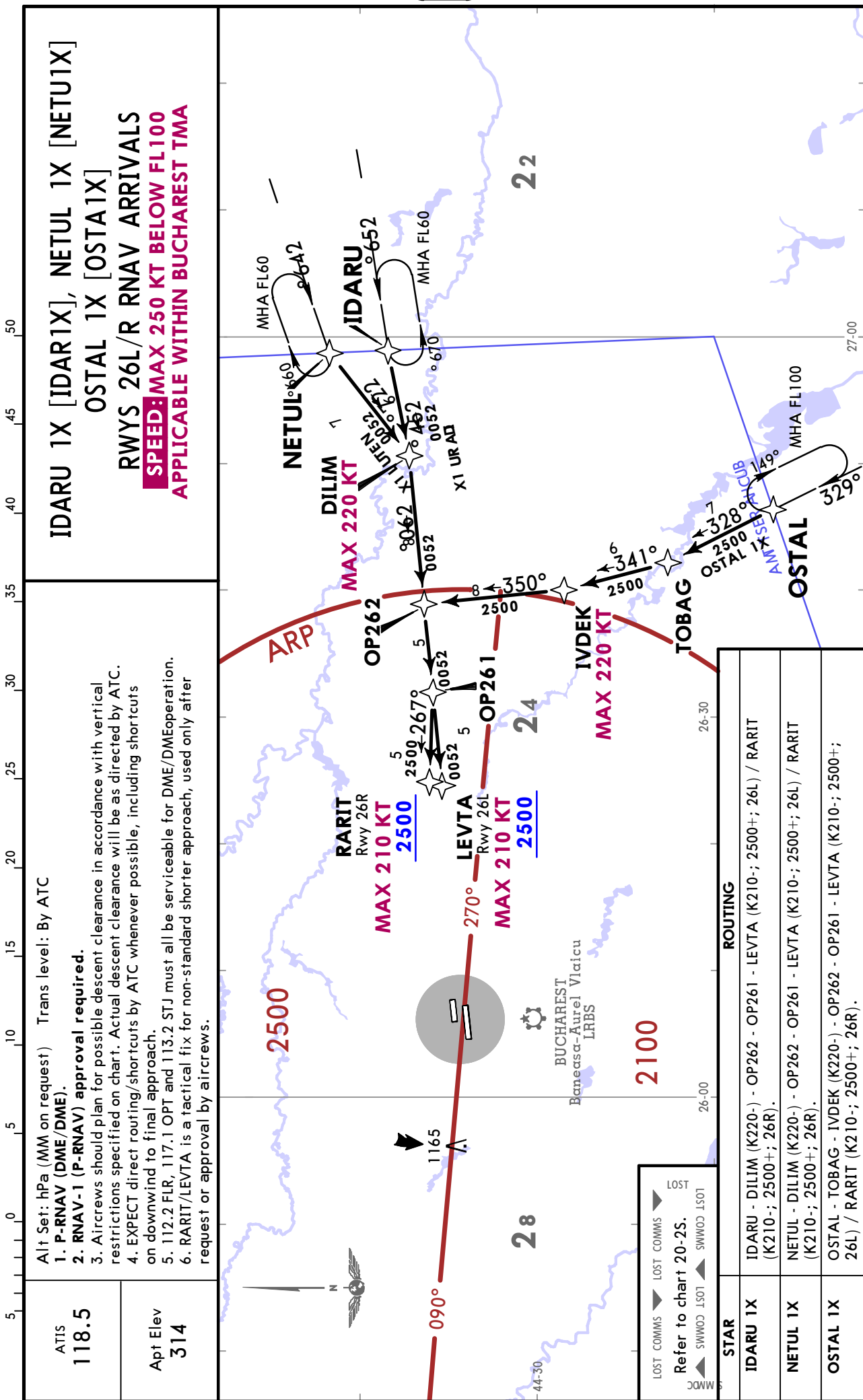
STAR	ROUTING
<b>IDARU 2U</b>	IDARU (FL70+) - DEXIM - IPRAS (FL70+) - INDOR (K240+; FL70+) - OP087 (K230-) - OP086 - OP085 - OP084 (K220+; 3500+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210+; 2500+; 08L) / OBELA (K210+; 2500+; 08R).
<b>NETUL 2U</b>	NETUL (FL70+) - DEXIM - IPRAS (FL70+) - INDOR (K240+; FL70+) - OP087 (K230-) - OP086 - OP085 - OP084 (K220+; 3500+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210+; 2500+; 08L) / OBELA (K210+; 2500+; 08R).
<b>OSTAL 1U</b>	OSTAL - TOBAG - IPRAS (FL70+) - INDOR (K240+; FL70+) - OP087 (K230-) - OP086 - OP085 - OP084 (K220+; 3500+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210+; 2500+; 08L) / OBELA (K210+; 2500+; 08R).

LOST COMMS  
LOST COMMS  
Refer to chart 20-2S.  
SWMOC 1501 SWWOC 1501

**LROP/OTP**  
HENRI COANDA

31 MAR 17 **20-2C**

**BUCHAREST, ROMANIA**  
**RNAV STAR**



**LROP/OTP**  
**HENRI COANDA**

**JEPPESSEN**  
31 MAR 17 **(20-2D)**

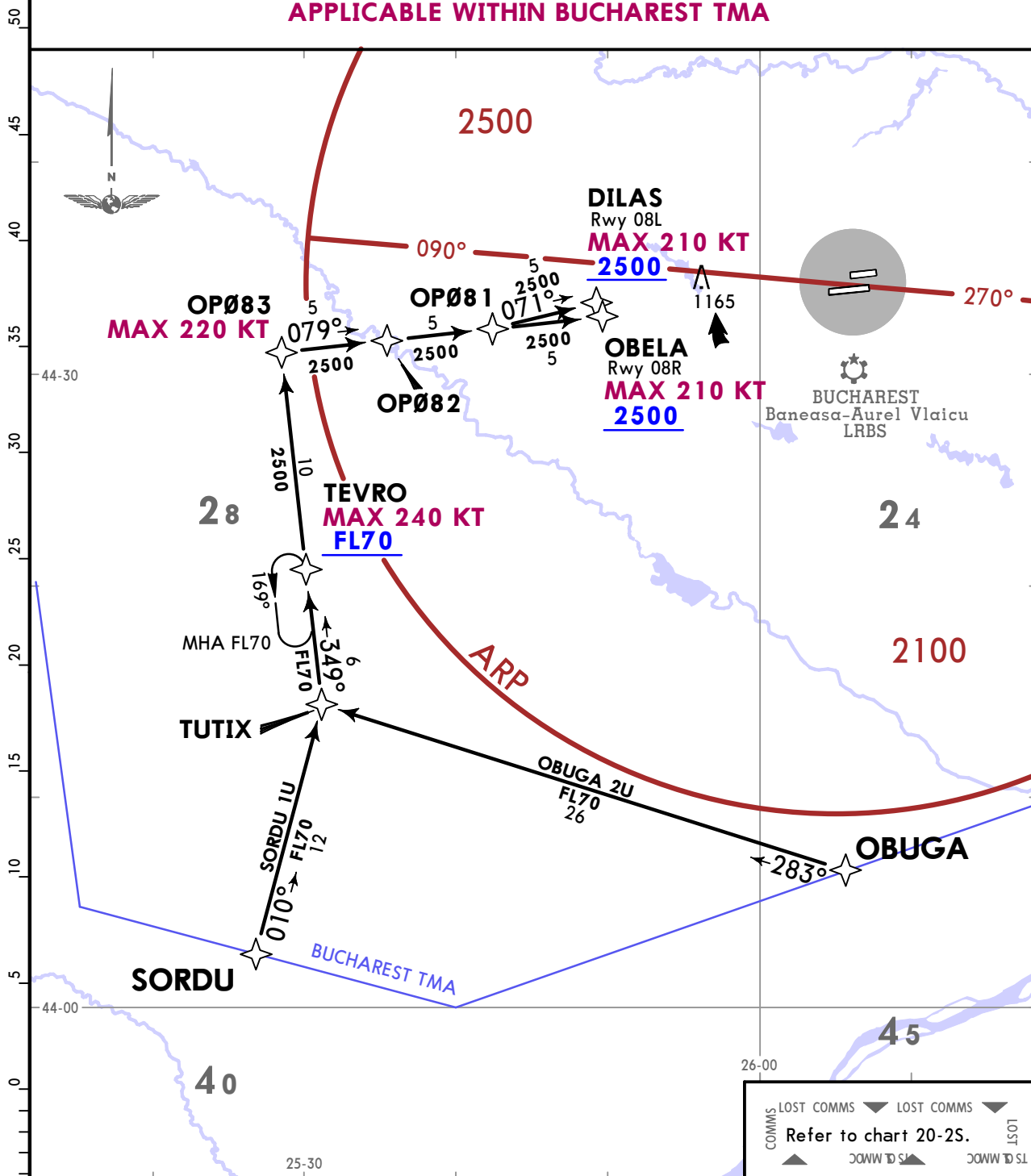
**BUCHAREST, ROMANIA**  
**RNAV STAR**

ATIS  
**118.5**

Apt Elev  
**314**

- Alt Set: hPa (MM on request) Trans level: By ATC
1. P-RNAV (DME/DME).
  2. RNAV-1 (P-RNAV) approval required.
  3. Aircrews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC.
  4. EXPECT direct routing/shortcuts by ATC whenever possible, including shortcuts on downwind to final approach.
  5. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.
  6. OBELA/DILAS is a tactical fix for non-standard shorter approach, used only after request or approval by aircrews.

**OBUGA 2U [OBUG2U], SORDU 1U [SORD1U]**  
**RWYS 08L/R RNAV ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**



STAR	ROUTING
<b>OBUGA 2U</b>	OBUGA - TUTIX - TEVRO (K240-; FL70+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210-; 2500+; 08L) / OBELA (K210-; 2500+; 08R).
<b>SORDU 1U</b>	SORDU - TUTIX - TEVRO (K240-; FL70+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210-; 2500+; 08L) / OBELA (K210-; 2500+; 08R).

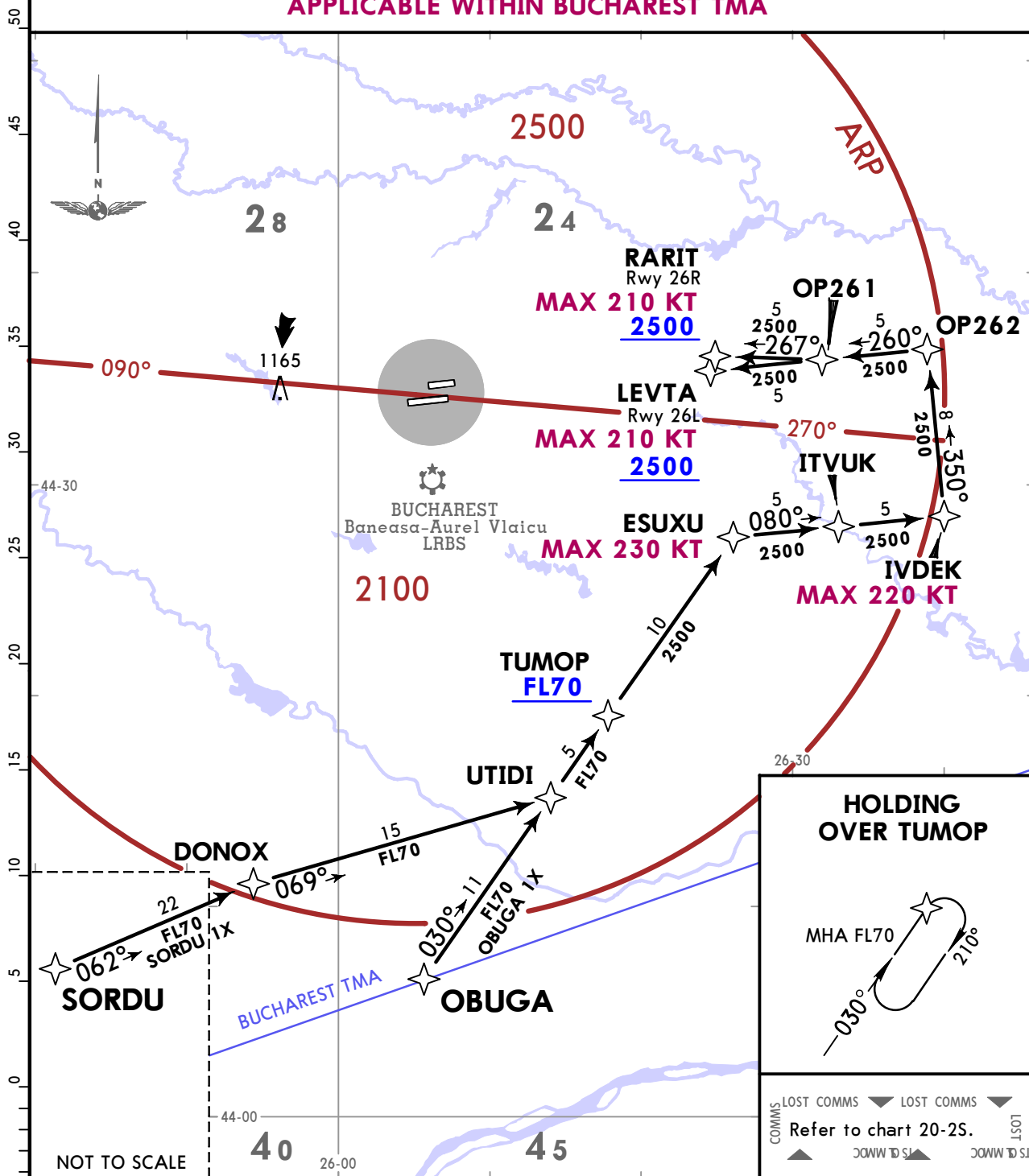
**LROP/OTP**  
**HENRI COANDA**

**JEPESEN**  
31 MAR 17 **(20-2E)**

**BUCHAREST, ROMANIA**  
**RNAV STAR**

ATIS <b>118.5</b>	Alt Set: hPa (MM on request) Trans level: By ATC <b>1. P-RNAV (DME/DME).</b> <b>2. RNAV-1 (P-RNAV) approval required.</b>
Apt Elev <b>314</b>	3. Aircrews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC. 4. EXPECT direct routing/shortcuts by ATC whenever possible, including shortcuts on downwind to final approach. 5. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation. 6. RARIT/LEVTA is a tactical fix for non-standard shorter approach, used only after request or approval by aircrews.

**OBUGA 1X [OBUG1X], SORDU 1X [SORD1X]**  
**RWYS 26L/R RNAV ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**



STAR	ROUTING
<b>OBUGA 1X</b>	OBUGA - UTIDI - TUMOP (FL70+) - ESUXU (K230-) - ITVUK - IVDEK (K220-) - OP262 - OP261 - LEVTA (K210-; 2500+; 26L) / RARIT (K210-; 2500+; 26R).
<b>SORDU 1X</b>	SORDU - DONOX - UTIDI - TUMOP (FL70+) - ESUXU (K230-) - ITVUK - IVDEK (K220-) - OP262 - OP261 - LEVTA (K210-; 2500+; 26L) / RARIT (K210-; 2500+; 26R).

CHANGES: New format.

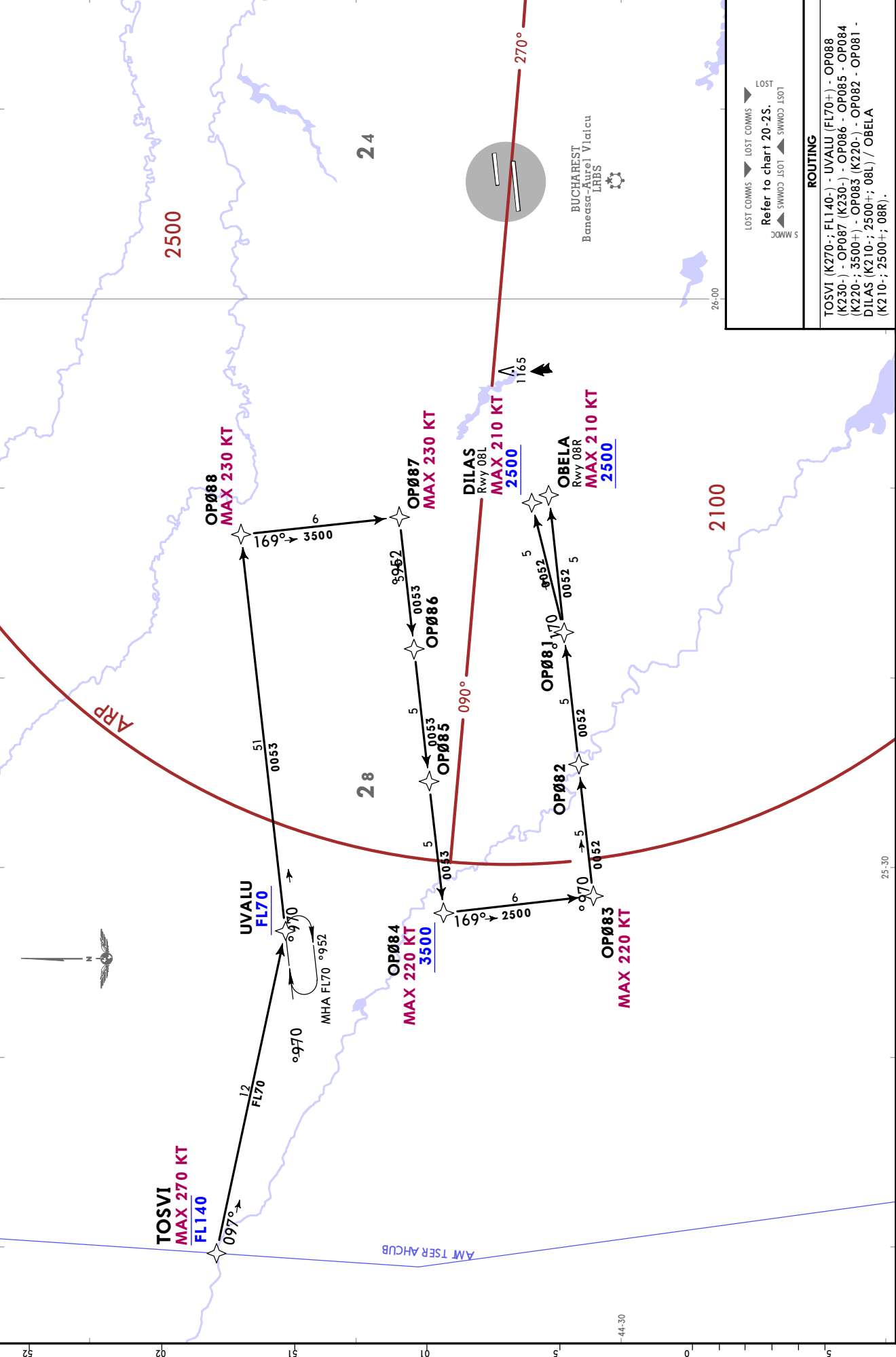
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**TOSVI 2U [TOSV2U]**  
**RWYS 08L/R RNAV ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**

- Alt Set: hPa (MM on request) Trans level: By ATC
1. P-RNAV (DME/DME).
  2. RNAV-1 (P-RNAV) approval required.
  3. Aircrews should plan for possible descent clearance in accordance with vertical restrictions specified on chart. Actual descent clearance will be as directed by ATC.
  4. EXPECT direct routing/shortcuts by ATC whenever possible, including shortcuts on downwind to final approach.
  5. 112.2 FLIR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.
  6. OBELA/DILAS is a tactical fix for non-standard shorter approach, used only after request or approval by aircrews.

ATIS  
 118.5

Apt Elev  
 314



LOST COMMS  
 Refer to chart 20-2S.

LOST COMMS  
 SWWOD LSOT  
 SWWOD LSOT

**ROUTING**

TOSVI (K270; FL140-) - UVALU (FL70+) - OP088 (K230-) - OP087 (K230-) - OP086 - OP085 - OP084 (K220-; 3500+) - OP083 (K220-) - OP082 - OP081 - DILAS (K210-; 2500+; 08L) / OBELA (K210-; 2500+; 08R).



LROP/OTP  
HENRI COANDA

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BUCHAREST, ROMANIA

31 MAR 17 (20-2H)

STAR

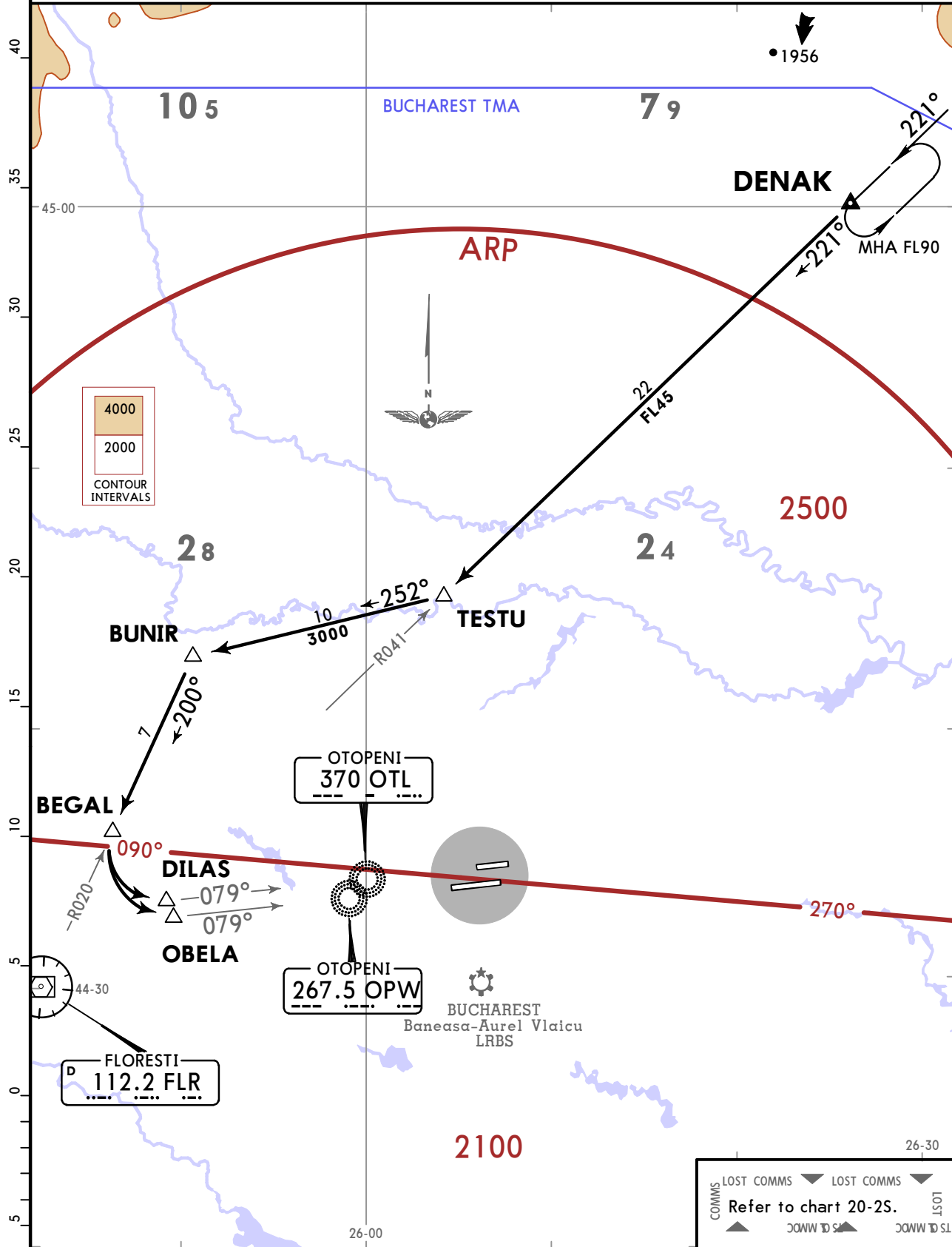
ATIS  
118.5

Apt Elev  
314

Alt Set: hPa (MM on request)  
Trans level: By ATC

DENAK 3E [DENA3E]  
RWYS 08L/R ARRIVAL

**SPEED: MAX 250 KT BELOW FL100  
APPLICABLE WITHIN BUCHAREST TMA**



**ROUTING**

Intercept FLR R041 inbound to TESTU, 252° track to BUNIR, intercept FLR R020 inbound to BEGAL, turn LEFT to DILAS (Rwy 08L) or OBELA (Rwy 08R).

LROP/OTP  
HENRI COANDA

JEPPESEN  
31 MAR 17 (20-2J)

BUCHAREST, ROMANIA  
STAR

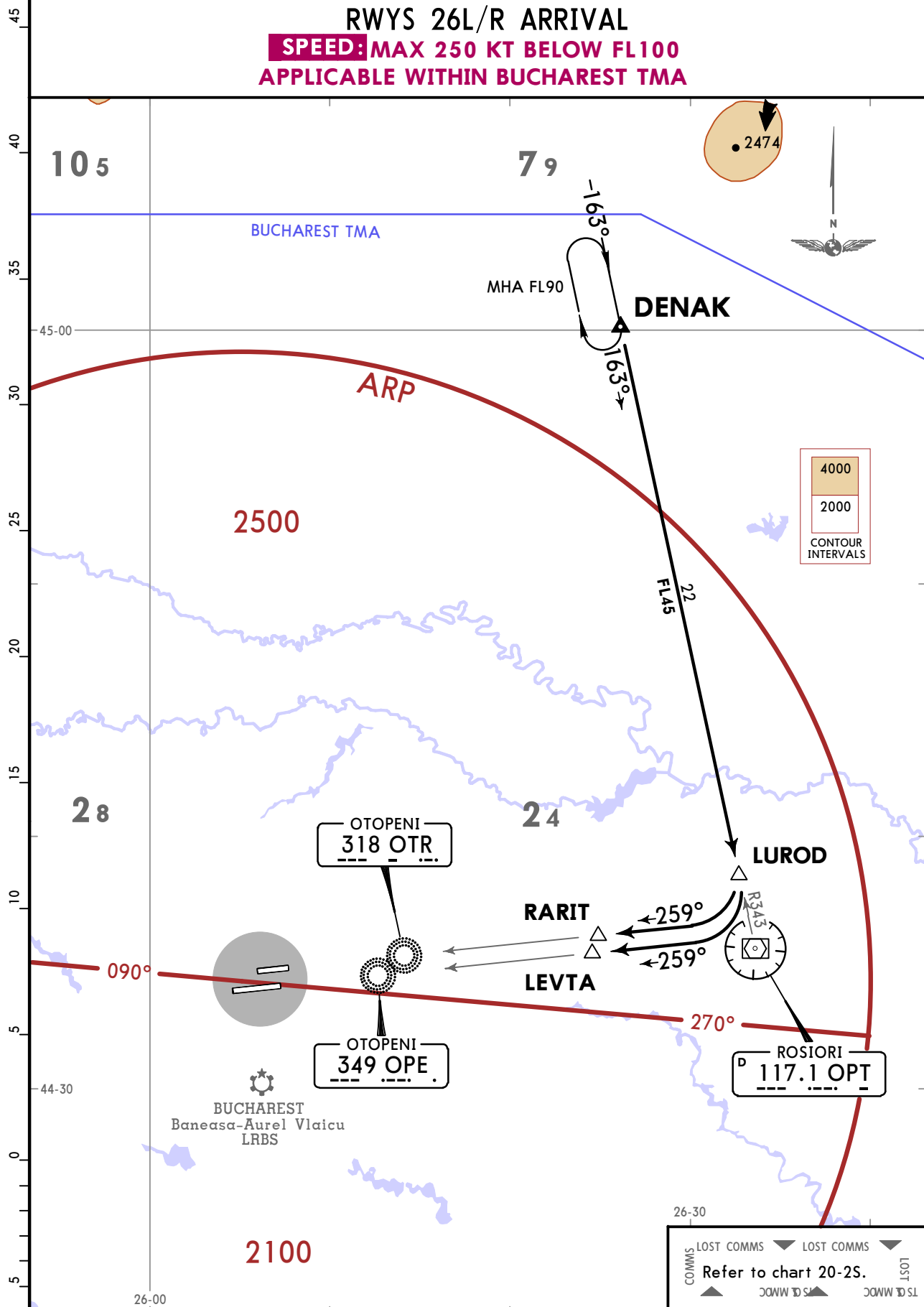
ATIS  
118.5

Apt Elev  
314

Alt Set: hPa (MM on request)  
Trans level: By ATC

DENAK 3F [DENA3F]  
RWYS 26L/R ARRIVAL

**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**



ROUTING

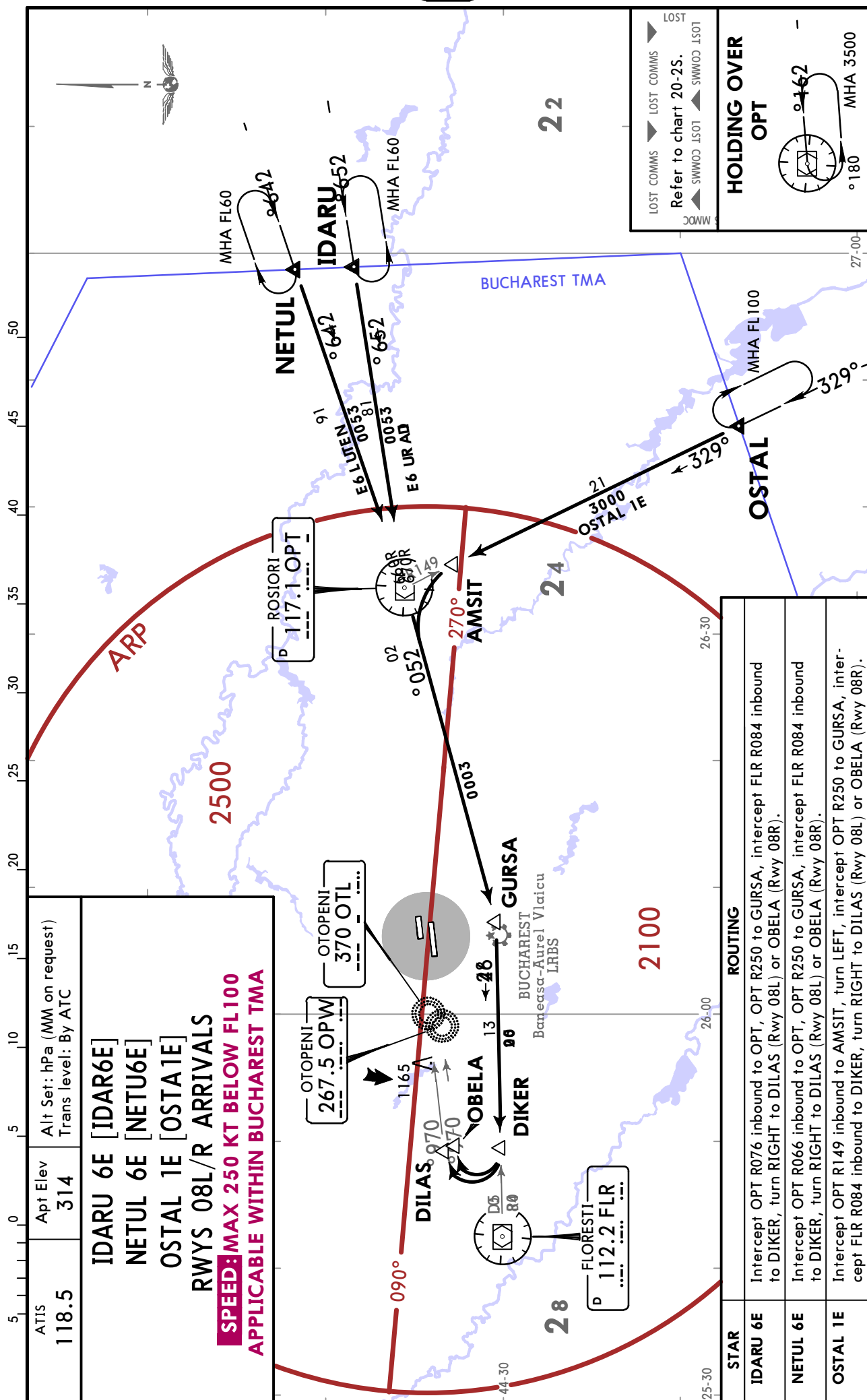
Intercept OPT R343 inbound to LUROD, turn RIGHT, intercept 259° bearing towards OPE to LEVTA (Rwy 26L) or towards OTR to RARIT (Rwy 26R).

**LROP/OTP**  
HENRI COANDA

**JEPPESEN**  
31 MAR 17 **20-2K**

**BUCHAREST, ROMANIA**

**STAR**



ATIS  
**118.5**

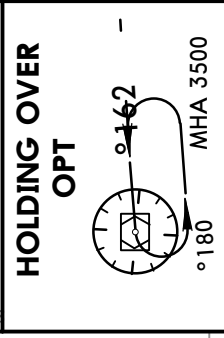
Apt Elev  
**314**

Alt Set: hPa (MM on request)  
Trans level: By ATC

**IDARU 6E [IDAR6E]**  
**NETUL 6E [NETU6E]**  
**OSTAL 1E [OSTA1E]**  
**RWYS 08L/R ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**

STAR	ROUTING
<b>IDARU 6E</b>	Intercept OPT R076 inbound to OPT, OPT R250 to GURSA, intercept FLR R084 inbound to DIKER, turn RIGHT to DILAS (Rwy 08L) or OBELA (Rwy 08R).
<b>NETUL 6E</b>	Intercept OPT R066 inbound to OPT, OPT R250 to GURSA, intercept FLR R084 inbound to DIKER, turn RIGHT to DILAS (Rwy 08L) or OBELA (Rwy 08R).
<b>OSTAL 1E</b>	Intercept OPT R149 inbound to AMSIT, turn LEFT, intercept OPT R250 to GURSA, intercept FLR R084 inbound to DIKER, turn RIGHT to DILAS (Rwy 08L) or OBELA (Rwy 08R).

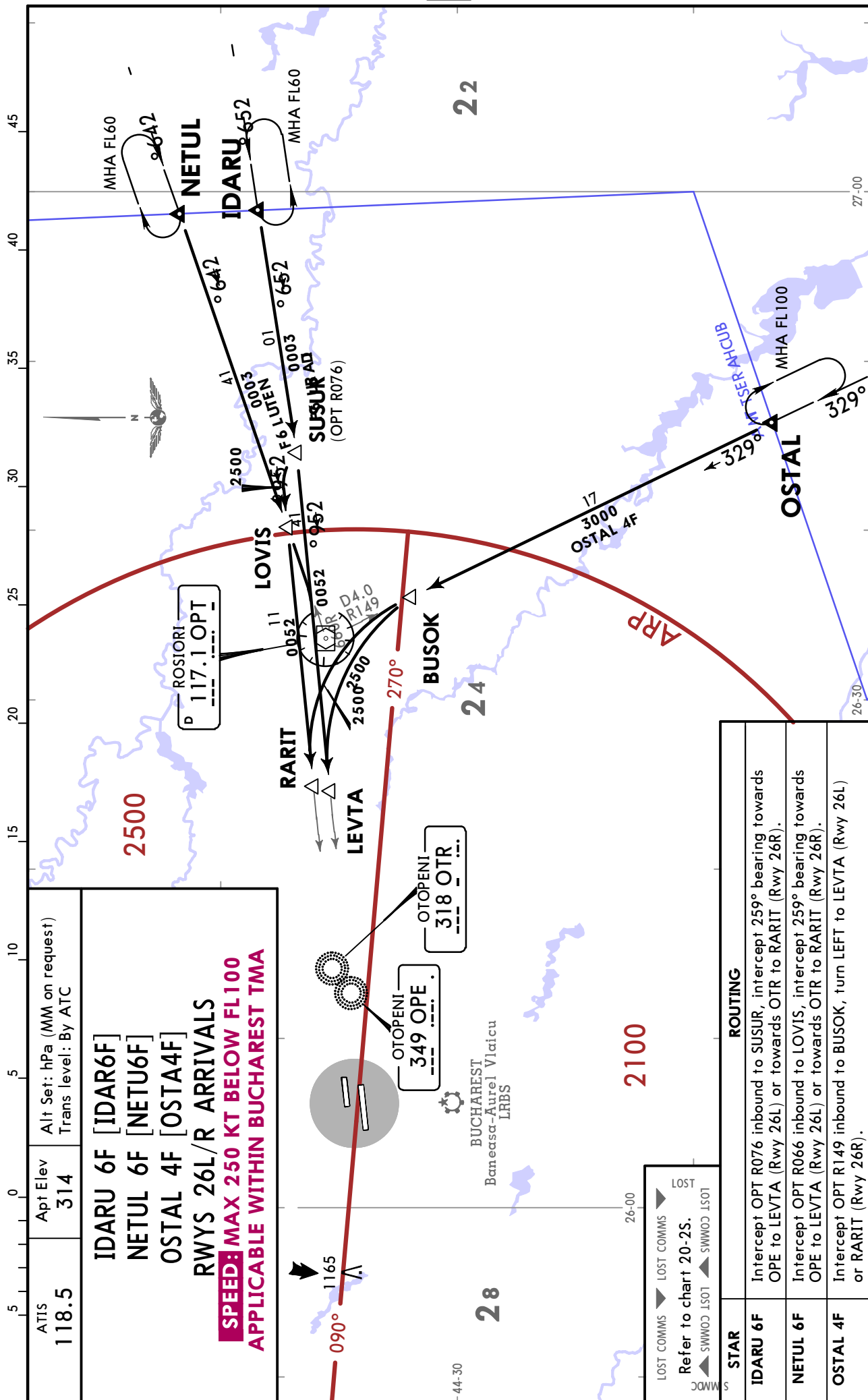
LOST COMMS  
LOST COMMS  
Refer to chart 20-25.  
SWWOD ISOT  
SWWOD ISOT



LROP/OTP  
HENRI COANDA

JEPPESSEN  
31 MAR 17 (20-2L)

BUCHAREST, ROMANIA  
STAR



ATIS  
118.5

Apt Elev  
314

Alt Set: hPa (MM on request)  
Trans level: By ATC

**IDARU 6F [IDAR6F]**  
**NETUL 6F [NETU6F]**  
**OSTAL 4F [OSTA4F]**

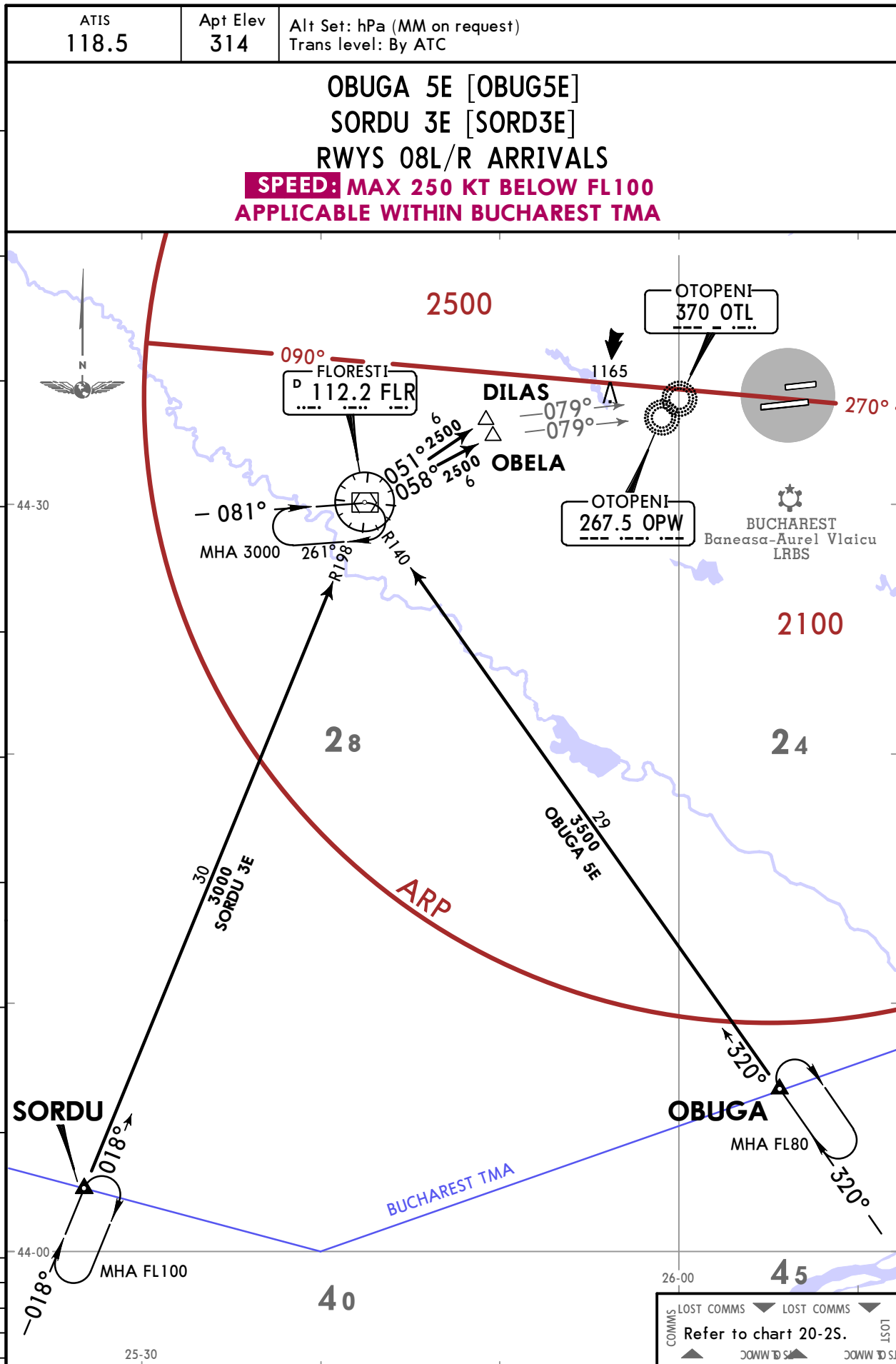
**RWYS 26L/R ARRIVALS**  
**SPEED: MAX 250 KT BELOW FL100**  
**APPLICABLE WITHIN BUCHAREST TMA**

STAR	ROUTING
<b>IDARU 6F</b>	Intercept OPT R076 inbound to SUSUR, intercept 259° bearing towards OPE to LEVTA (Rwy 26L) or towards OTR to RARIT (Rwy 26R).
<b>NETUL 6F</b>	Intercept OPT R066 inbound to LOVIS, intercept 259° bearing towards OPE to LEVTA (Rwy 26L) or towards OTR to RARIT (Rwy 26R).
<b>OSTAL 4F</b>	Intercept OPT R149 inbound to BUSOK, turn LEFT to LEVTA (Rwy 26L) or RARIT (Rwy 26R).

**LROP/OTP**  
HENRI COANDA

**JEPPESEN**  
31 MAR 17 (20-2M)

**BUCHAREST, ROMANIA**  
**STAR**



STAR	ROUTING
<b>OBUGA 5E</b>	Intercept FLR R140 inbound to FLR, FLR R051 to DILAS (Rwy 08L) or FLR R058 to OBELA (Rwy 08R).
<b>SORDU 3E</b>	Intercept FLR R198 inbound to FLR, FLR R051 to DILAS (Rwy 08L) or FLR R058 to OBELA (Rwy 08R).

CHANGES: New format.

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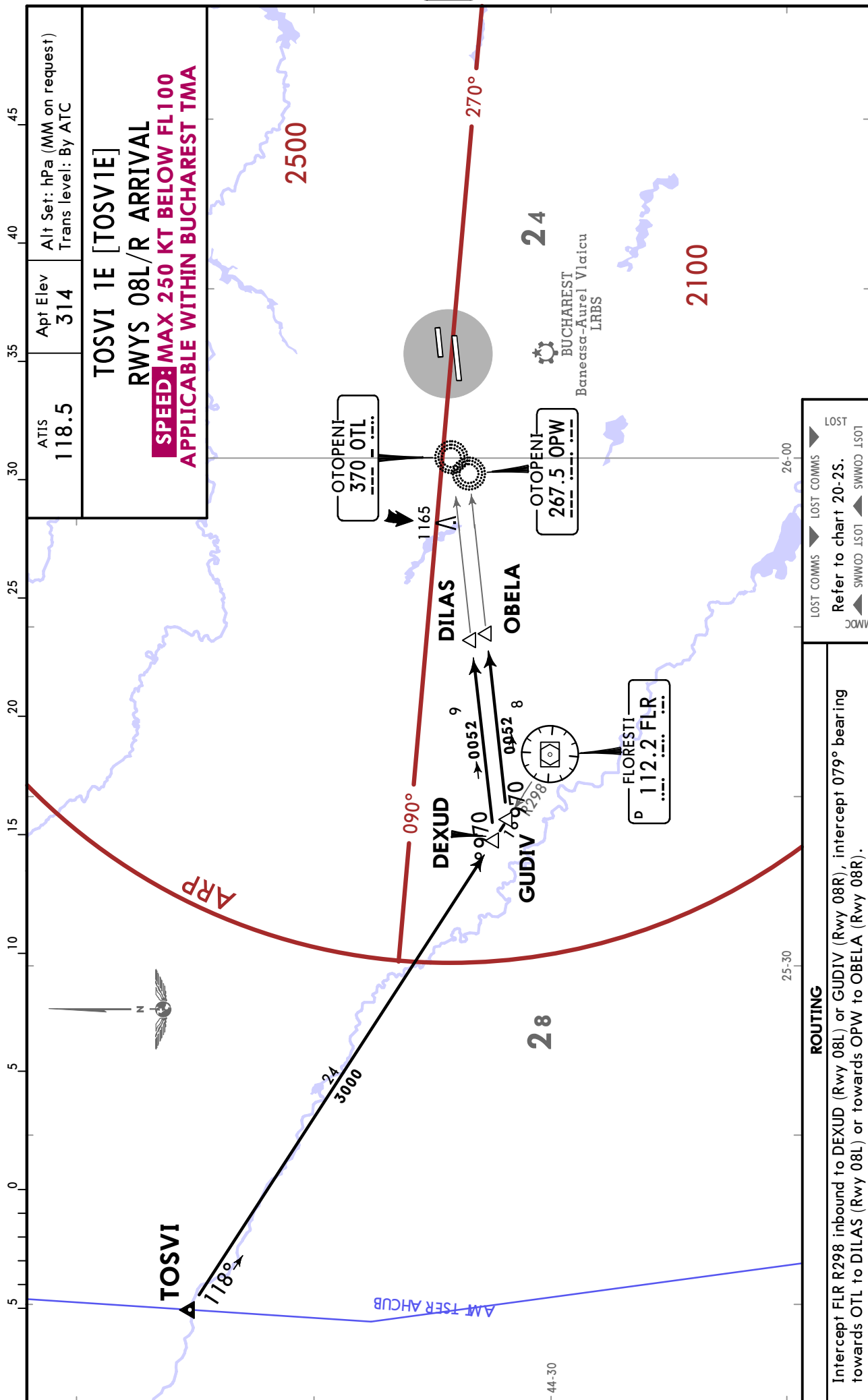


# LROP/OTP HENRI COANDA

31 MAR 17 (20-2P)

# BUCHAREST, ROMANIA

STAR

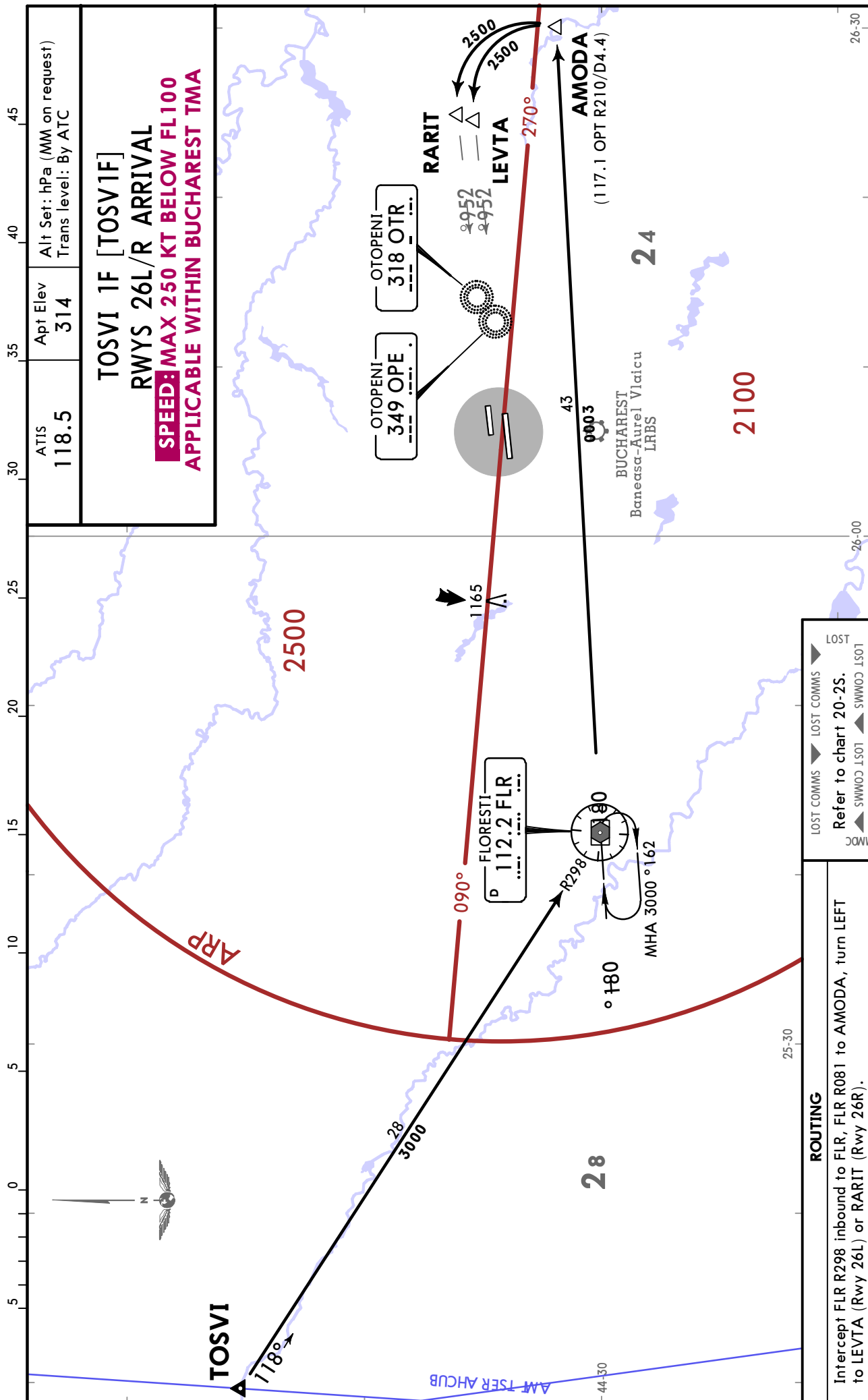


# LROP/OTP HENRI COANDA

JEPPesen  
31 MAR 17 (20-2Q)

# BUCHAREST, ROMANIA

STAR



## COMMUNICATION FAILURE PROCEDURES

### 1. FLIGHTS ABLE TO PERFORM RNAV ARRIVAL

- if RWY was assigned or received by ATC or ATIS, set transponder 7600, proceed according FPL and assigned or designated STAR. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 min from setting 7600.

- if RWY was assigned or received by ATC or ATIS and vectoring was initiated, set transponder 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 min from setting 7600. Then proceed direct to OBELA(RWY 08R)/DILAS(RWY08L) or RARIT(RWY 26R)/LEVTA(RWY 26L). Descending shall be executed in accordance with minimum altitude of BUCHAREST TMA or vertical restrictions specified on 20-1R, whichever is greater, but not less than 2500'.

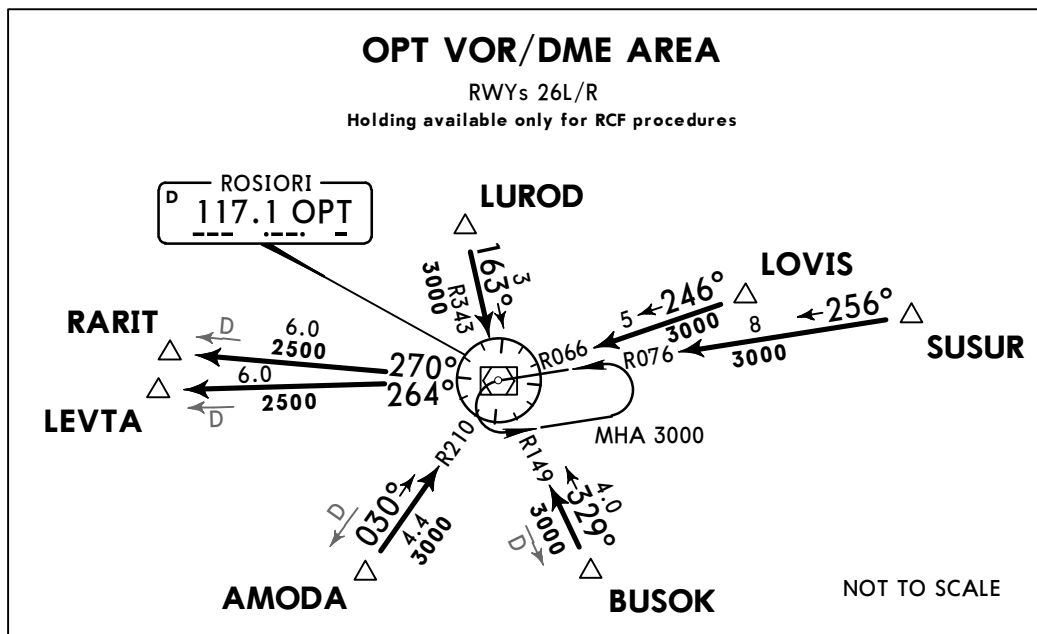
- if STAR was not assigned and RWY not assigned or received by ATC or ATIS, set transponder 7600, proceed according to FPL and FPL STAR. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 min from setting 7600.

### 2. FLIGHTS UNABLE TO PERFORM RNAV ARRIVAL

- if RWY was assigned or received by ATC or ATIS, set transponder 7600, proceed according FPL and assigned or designated STAR. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 min from setting 7600.

- if RWY was assigned or received by ATC or ATIS and vectoring was initiated, set transponder 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 min from setting 7600. Then proceed direct to FLR VOR/DME, then to OBELA (RWY 08R)/DILAS (RWY08L) or direct to OPT VOR/DME, then OPT R-264 to LEVTA (RWY 26L)/OPT R-270 to RARIT (RWY 26R). Descending shall be executed in accordance with minimum altitude of BUCHAREST TMA or vertical restrictions specified on 20-1R, whichever is greater, but not less than 2500'.

- if STAR was not assigned and RWY not assigned or received by ATC or ATIS, set transponder 7600, proceed according to FPL and FPL STAR. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 min from setting 7600.



**LROP/OTP**  
**HENRI COANDA**

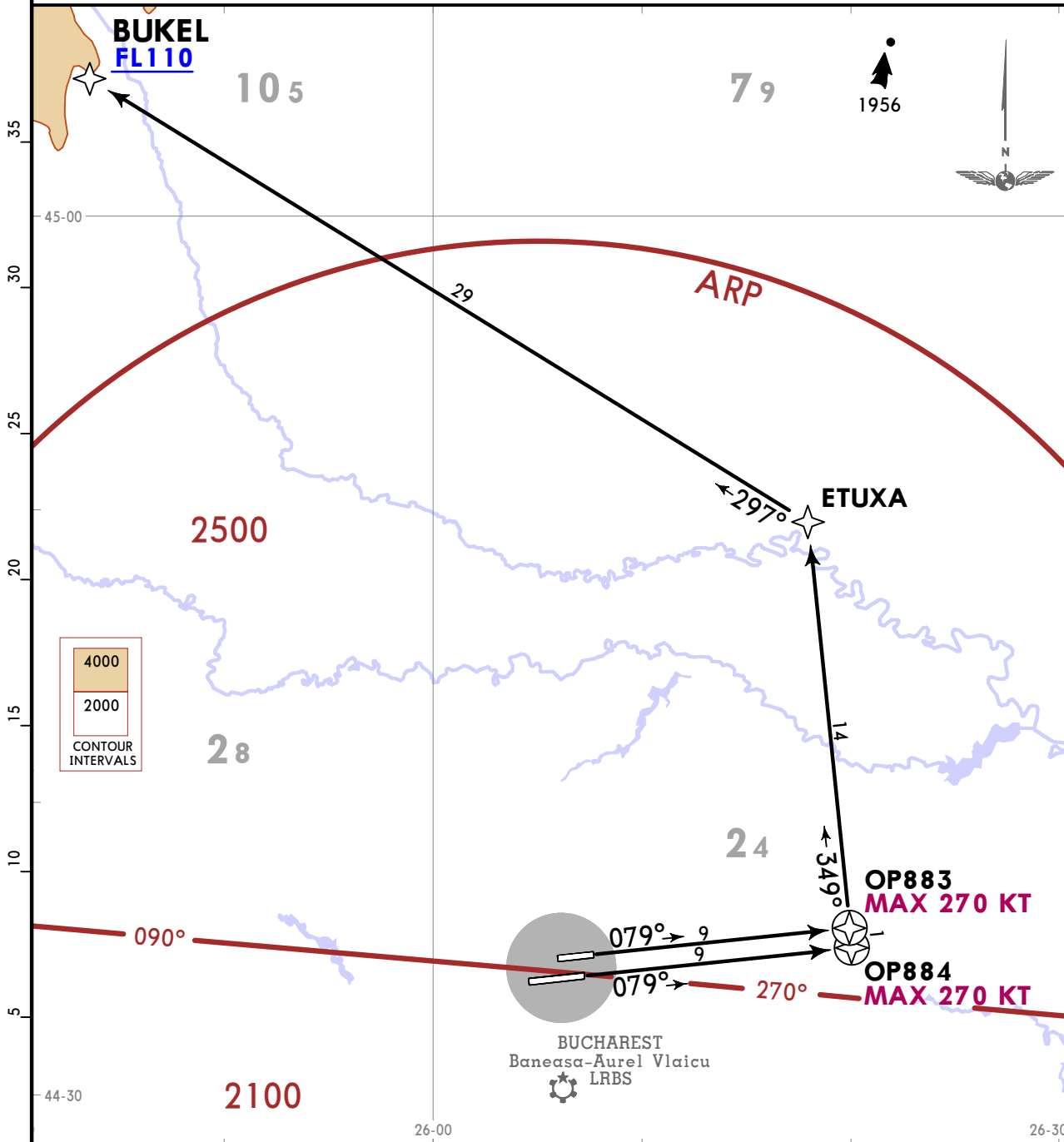
**JEPPESSEN**  
2 AUG 19 **20-3**

**BUCHAREST, ROMANIA**  
**RNAV SID**

BUCHAREST  
Approach (R)  
**119.415**  
**120.6**  
Apt Elev  
**314**

Trans alt: 4000  
**1. RNAV (DME/DME). 2. RNAV-1 (P-RNAV) approval required.**  
 3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.  
 4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up.  
 5. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.  
 6. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

**BUKEL 1K [BUKE1K]**  
**RWYS 08L/R RNAV DEPARTURE**  
NOT AVAILABLE FOR TRAFFIC TO NEPOT



Set transponder:  
 - continue on assigned and acknowledged SID. After 2 minutes climb to flight planned FL.  
 - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.

This SID requires a minimum climb gradient of

Gnd speed-KT	75	100	150	200	250	300
3.5% V/V(fpm)	266	354	532	709	886	1063

If unable to comply, contact ATC before start-up.

**ROUTING**  
OP883 (08L; K270-)/OP884 (08R; K270-) - ETUXA - BUKEL (FL110+).



**LROP/OTP**  
**HENRI COANDA**

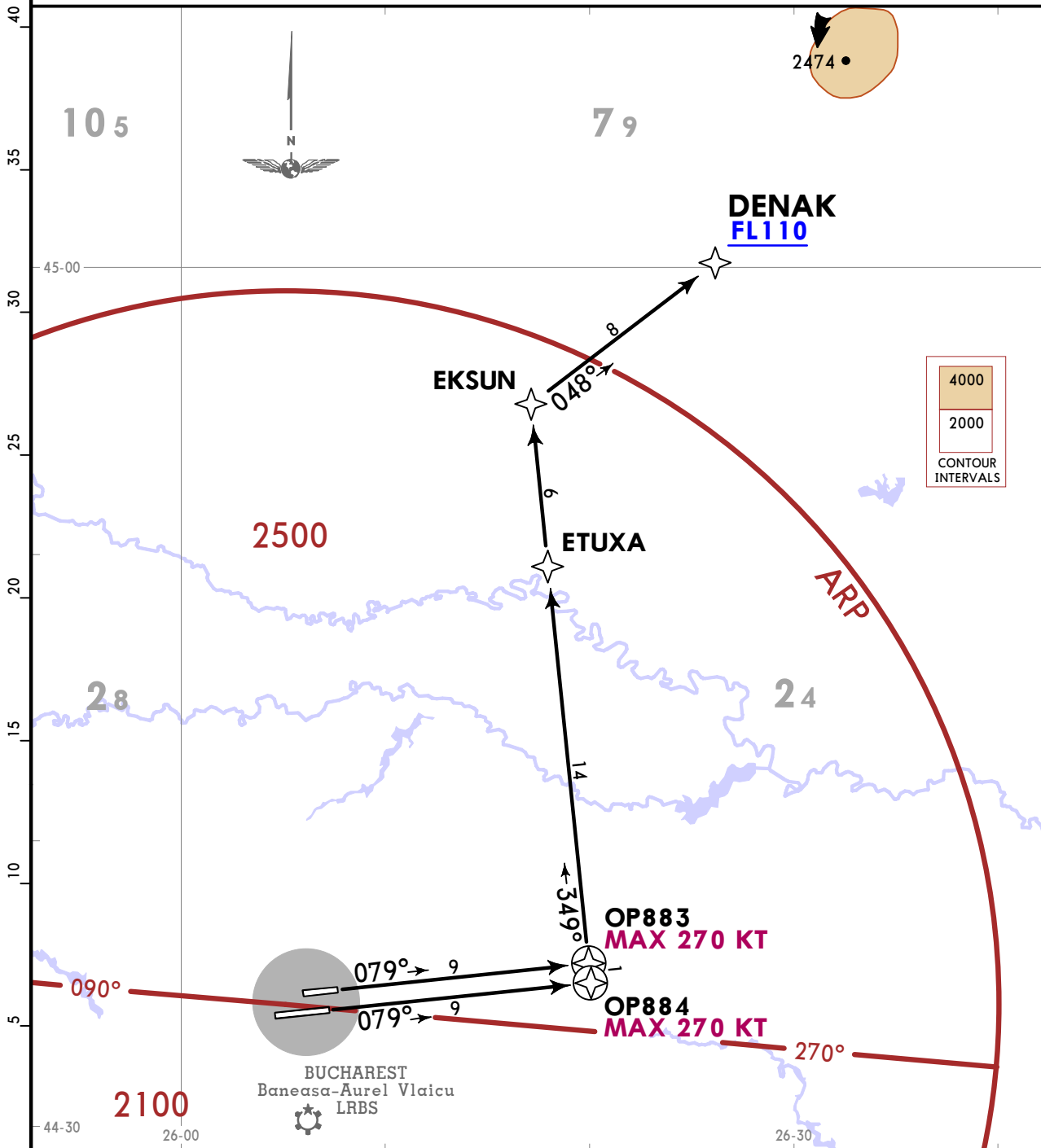
**JEPPESEN**  
2 AUG 19 **(20-3B)**

**BUCHAREST, ROMANIA**  
**RNAV SID**

BUCHAREST  
Approach (R)  
**119.415**  
**120.6**  
Apt Elev  
**314**

Trans alt: 4000  
**1. RNAV (DME/DME). 2. RNAV-1 (P-RNAV) approval required.**  
 3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.  
 4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up.  
 5. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.  
 6. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

**DENAK 1K [DENA1K]**  
**RWYS 08L/R RNAV DEPARTURE**



Set transponder:  
 - continue on assigned and acknowledged SID.  
 - After 2 minutes climb to flight planned FL.  
 - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.

This SID requires a minimum climb gradient of 5.0% until DENAK due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
5.0% V/V(fpm)	380	506	760	1013	1266	1519

If unable to comply, contact ATC before start-up.

**ROUTING**

OP883 (08L; K270-)/OP884 (08R; K270-) - ETUXA - EKSUN - DENAK (FL110+).

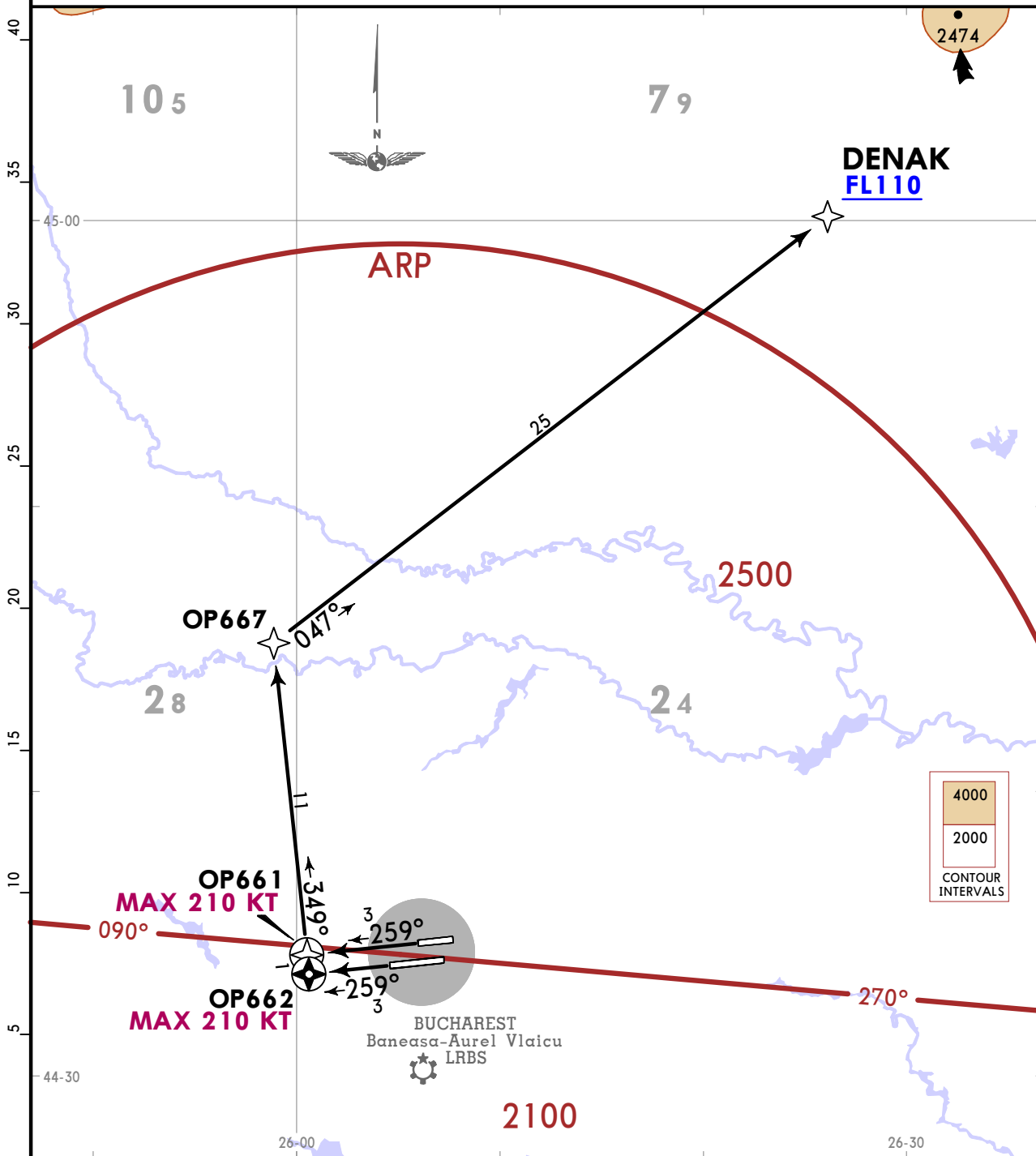
**LROP/OTP**  
**HENRI COANDA**

**JEPPESSEN**  
2 AUG 19 **(20-3C)**

**BUCHAREST, ROMANIA**  
**RNAV SID**

BUCHAREST Approach (R) <b>119.415</b> <b>120.6</b> Apt Elev <b>314</b>	Trans alt: 4000 <b>1. RNAV (DME/DME). 2. RNAV-1 (P-RNAV) approval required.</b> 3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation. 4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up. 5. EXPECT close-in obstacles. 6. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID. 7. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.
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**DENAK 1M [DENA1M]**  
**RWYS 26L/R RNAV DEPARTURE**



**Set transponder:**

- continue on assigned and acknowledged SID. After 2 minutes climb to flight planned FL.
- if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.

This SID requires a minimum climb gradient of 4.7% until DENAK due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.7% V/V(fpm)	357	476	714	952	1190	1428

If unable to comply, contact ATC before start-up.

**ROUTING**  
OP662 (26L; K210-)/OP661 (26R; K210-) - OP667 - DENAK (FL110+).

**LROP/OTP**  
HENRI COANDA

**JEPPESSEN**  
2 AUG 19 (20-3D)

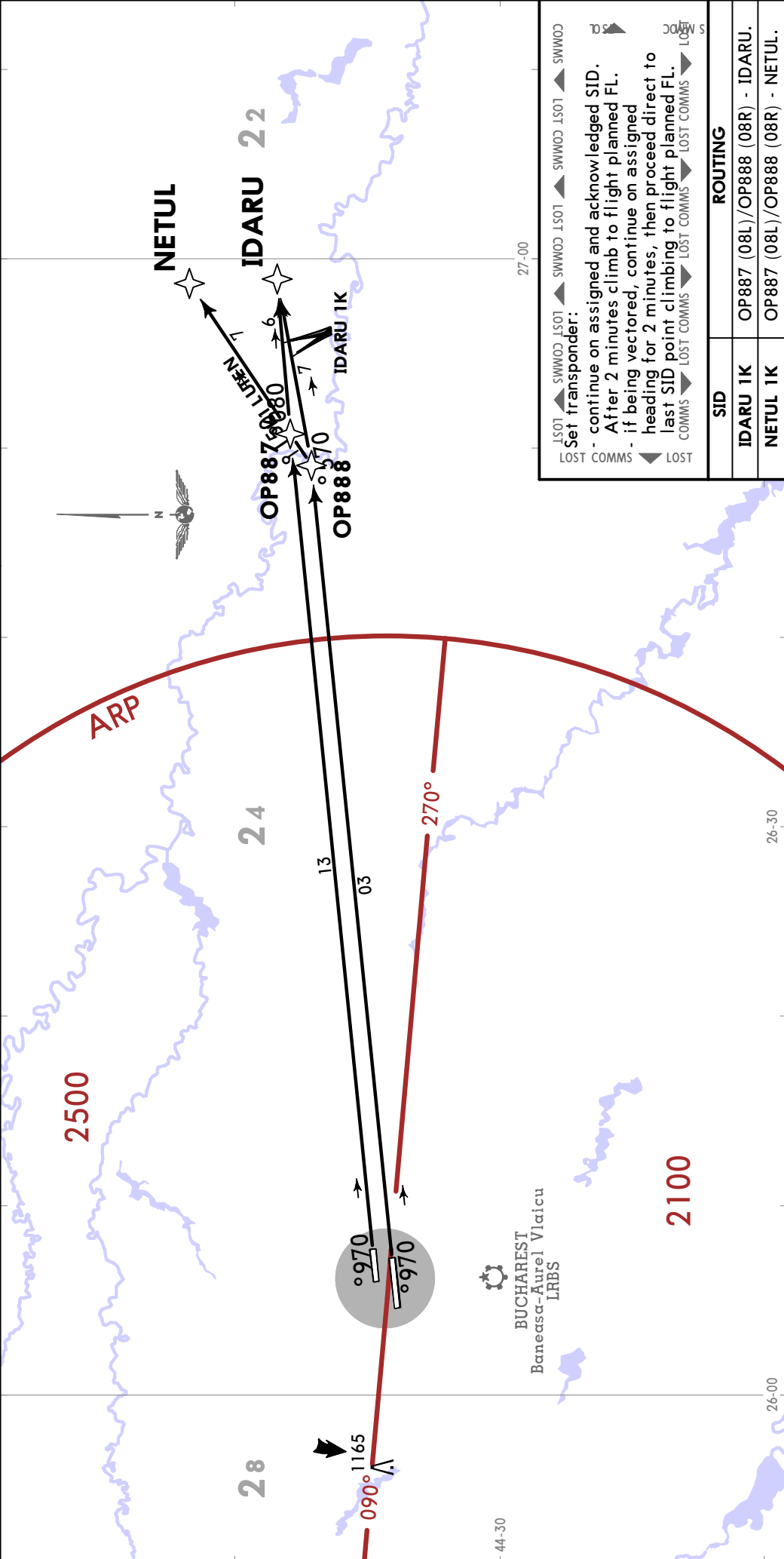
**BUCHAREST, ROMANIA**

**RNAV SID**

BUCHAREST Approach (R)  
**119.415**  
**120.6**  
Apt Elev  
**314**

Trans alt: 4000

**1. RNAV (DME/DME). 2. RNAV-1 (P-RNAV) approval required.**  
3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.  
4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up. 5. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID. 6. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.





**JEPPESEN**  
**BUCHAREST, ROMANIA**  
 2 AUG 19 (20-3F) **RNAV SID**

Trans alt: 4000  
 1. **RNAV (DME/DME).**  
 2. **RNAV-1 (P-RNAV) approval required.**  
 3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation.  
 4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up.  
 5. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.  
 6. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

BUCHAREST  
 Approach (R)  
 119.415  
 120.6

Apt Elev  
 314

**POLUN 1K [POLU1K]**  
**SOKRU 1K [SOKR1K]**  
**RWYS 08L/R RNAV DEPARTURES**

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST  
 Set transponder to 7600, then:  
 - continue on assigned and acknowledged SID. After 2 minutes climb to flight planned FL.  
 - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.  
 LSOT ▲ SWWOD LSOT ▲ SWWOD LSOT ▲ SWWOD LSOT

These SIDs require minimum climb gradients of

**POLUN 1K:** Rwy 08R: 6.7% until OP884 due to airspace structure.  
 Rwy 08L: 7.0% until OP883 due to airspace structure.

**SOKRU 1K:** Rwy 08R: 3.5% until SOKRU due to airspace structure.  
 Rwy 08L: 3.4% until OP881, then 3.5% until SOKRU due to airspace structure.

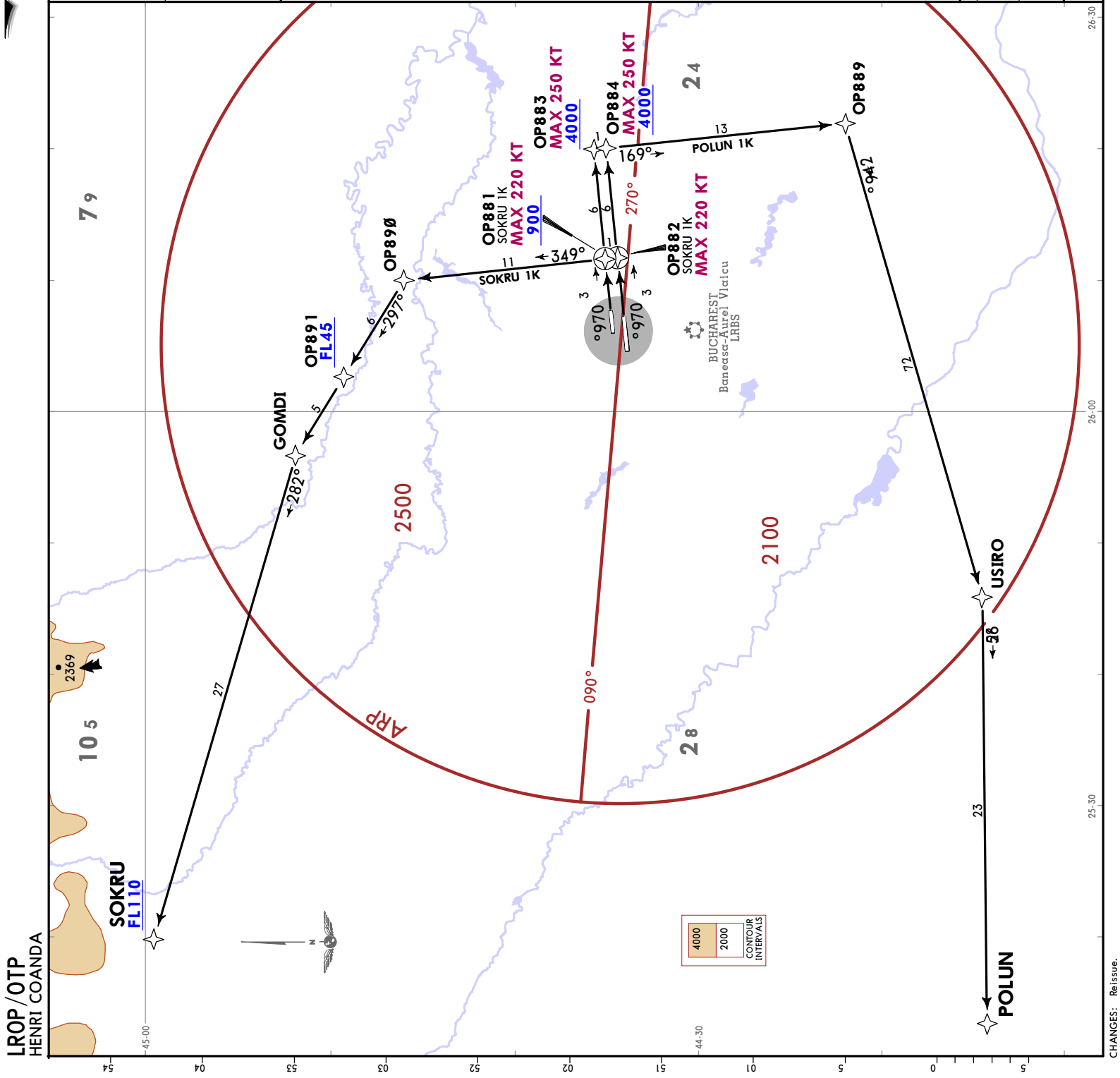
Gnd speed-KT	75	100	150	200	250	300
7.0% V/V (fpm)	532	709	1063	1418	1772	2127
6.7% V/V (fpm)	509	679	1018	1357	1696	2036
3.5% V/V (fpm)	266	354	532	709	886	1063
3.4% V/V (fpm)	258	344	516	689	861	1033

If unable to comply, contact ATC before start-up.

SID	ROUTING
<b>POLUN 1K ①</b>	OP883 (08L; K250+; 4000+); OP884 (08R; K250+; 4000+) - OP889 - USIRO - POLUN.
<b>SOKRU 1K ②</b>	OP881 (08L; K220+; 900+); OP882 (08R; K220+; 900+); OP890 - OP891 (FL45+) - GOMDI - SOKRU (FL110+).

① Not available for traffic to MOPUG.  
 ② Not available for traffic to DIRER.

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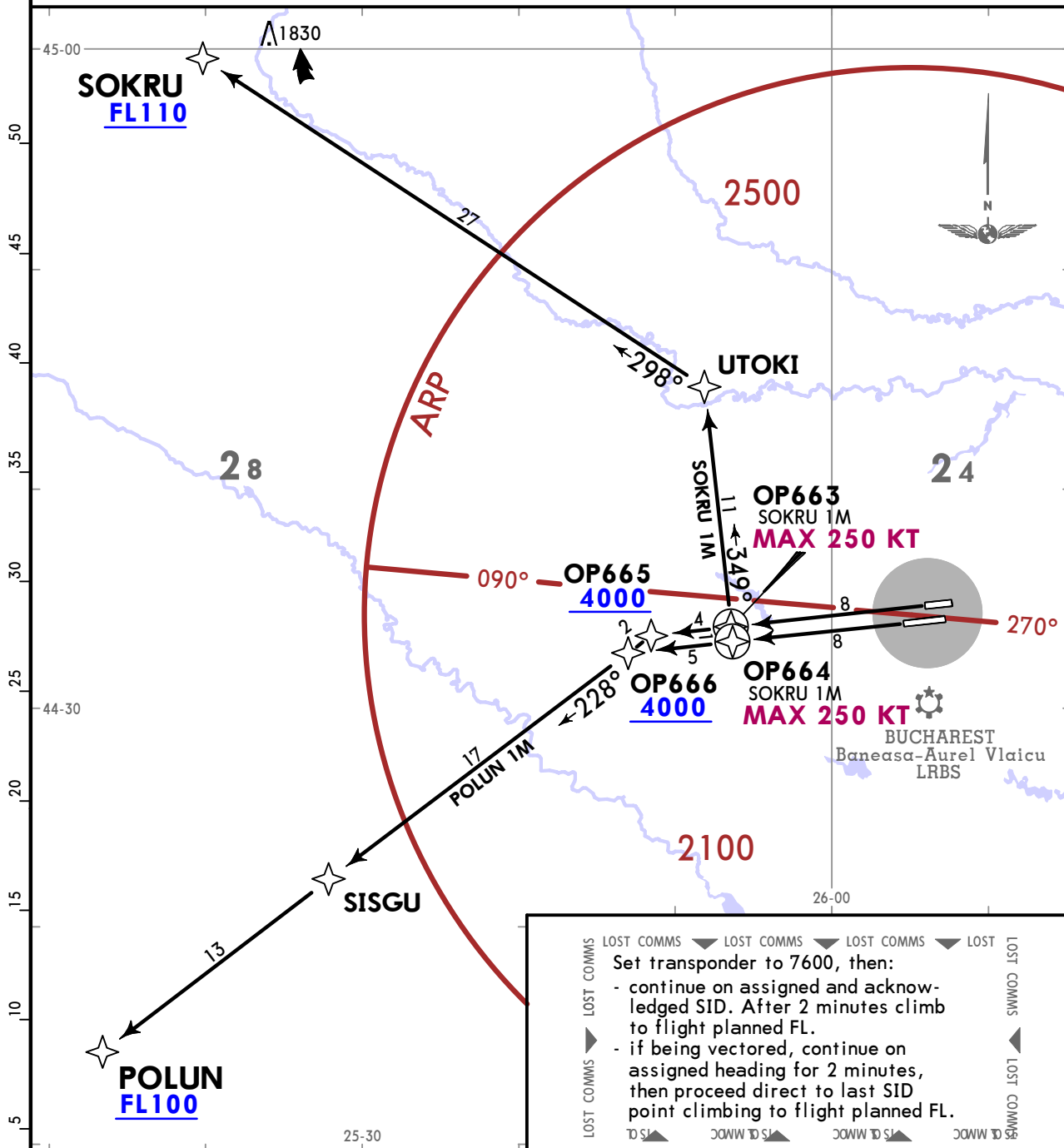
# LROP/OTP HENRI COANDA

**JEPPESEN**  
2 AUG 19 **(20-3G)**

**BUCHAREST, ROMANIA**  
**RNAV SID**

BUCHAREST Approach (R) <b>119.415</b> <b>120.6</b>	Trans alt: 4000 <b>1. RNAV (DME/DME). 2. RNAV-1 (P-RNAV) approval required.</b> 3. 112.2 FLR, 117.1 OPT and 113.2 STJ must all be serviceable for DME/DME operation. 4. Aircraft unable to achieve SID profile restrictions must request non-standard departure from ATC before start-up. 5. EXPECT close-in obstacles. 6. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID. 7. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.
Apt Elev <b>314</b>	

## POLUN 1M [POLU1M], SOKRU 1M [SOKR1M] RWYS 26L/R RNAV DEPARTURES



These SIDs require minimum climb gradients of

**POLUN 1M:** Rwy 26L: 4.9% until OP666 due to airspace structure.  
Rwy 26R: 5.2% until OP665 due to airspace structure.

**SOKRU 1M:** 3.9% until SOKRU due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
5.2% V/V(fpm)	395	527	790	1053	1317	1580
4.9% V/V(fpm)	372	496	744	992	1241	1489
3.9% V/V(fpm)	296	395	592	790	987	1185

If unable to comply, contact ATC before start-up.

SID	ROUTING
<b>POLUN 1M ①</b>	OP666 (26L; 4000+)/OP665 (26R; 4000+) - SISGU - POLUN (FL100+).
<b>SOKRU 1M ②</b>	OP664 (26L; K250-)/OP663 (26R; K250-) - UTOKI - SOKRU (FL110+).

① Not available for traffic to MOPUG.      ② Not available for traffic to DIRER.

**LROP/OTP**  
**HENRI COANDA**

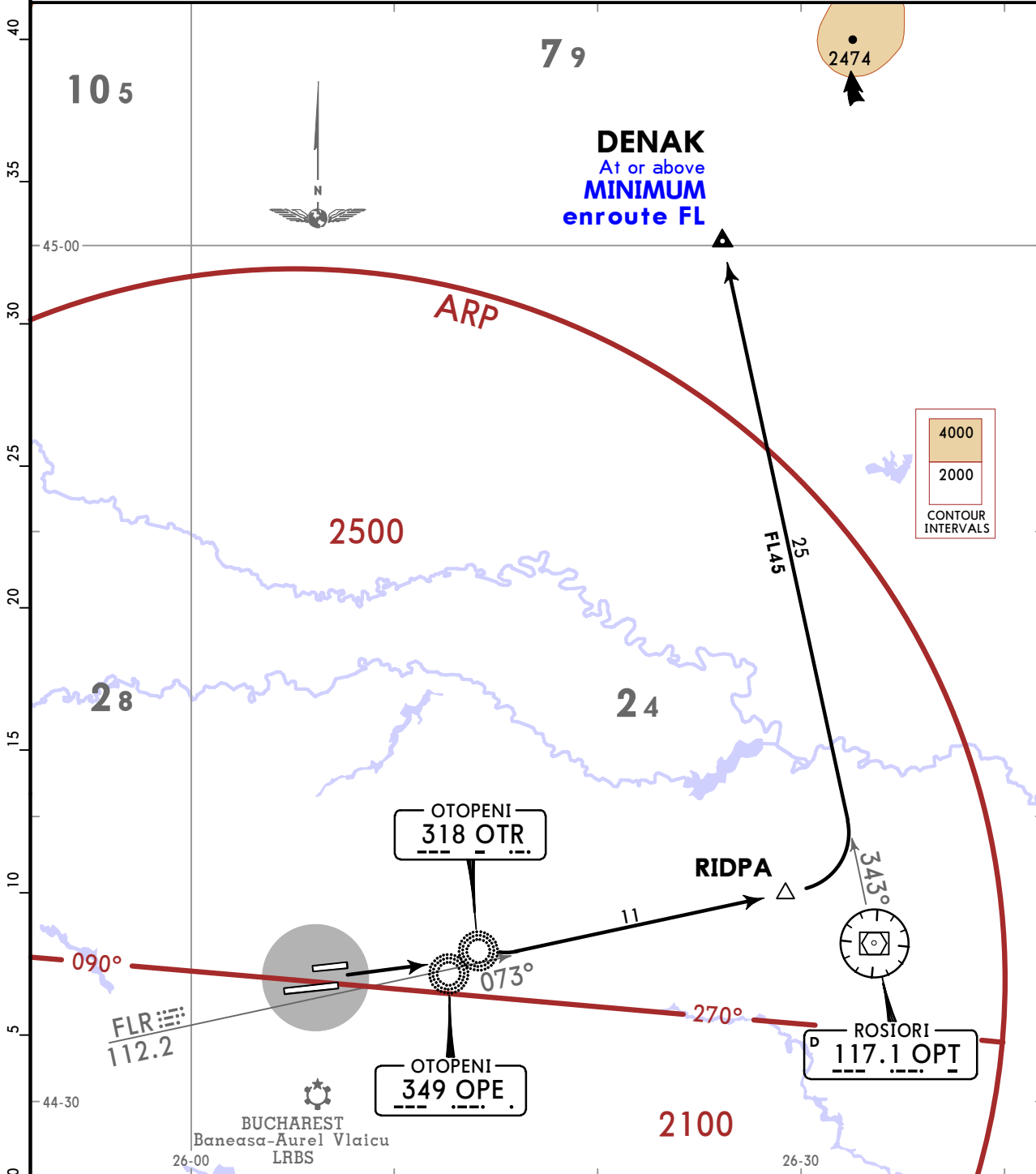
**JEPPESEN**  
2 AUG 19 **(20-3H)**

**BUCHAREST, ROMANIA**  
**SID**

BUCHAREST  
Approach (R)  
**119.415**  
**120.6**  
Apt Elev  
**314**

- Trans alt: 4000
1. SIDs are also noise abatement routings. Strict adherence within the limits of aircraft performance is mandatory.
  2. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.
  3. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

**DENAK 3A [DENA3A]**  
**RWYS 08L/R DEPARTURE**



This SID requires a minimum climb gradient of 4.4% due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.4% V/V(fpm)	334	446	668	891	1114	1337

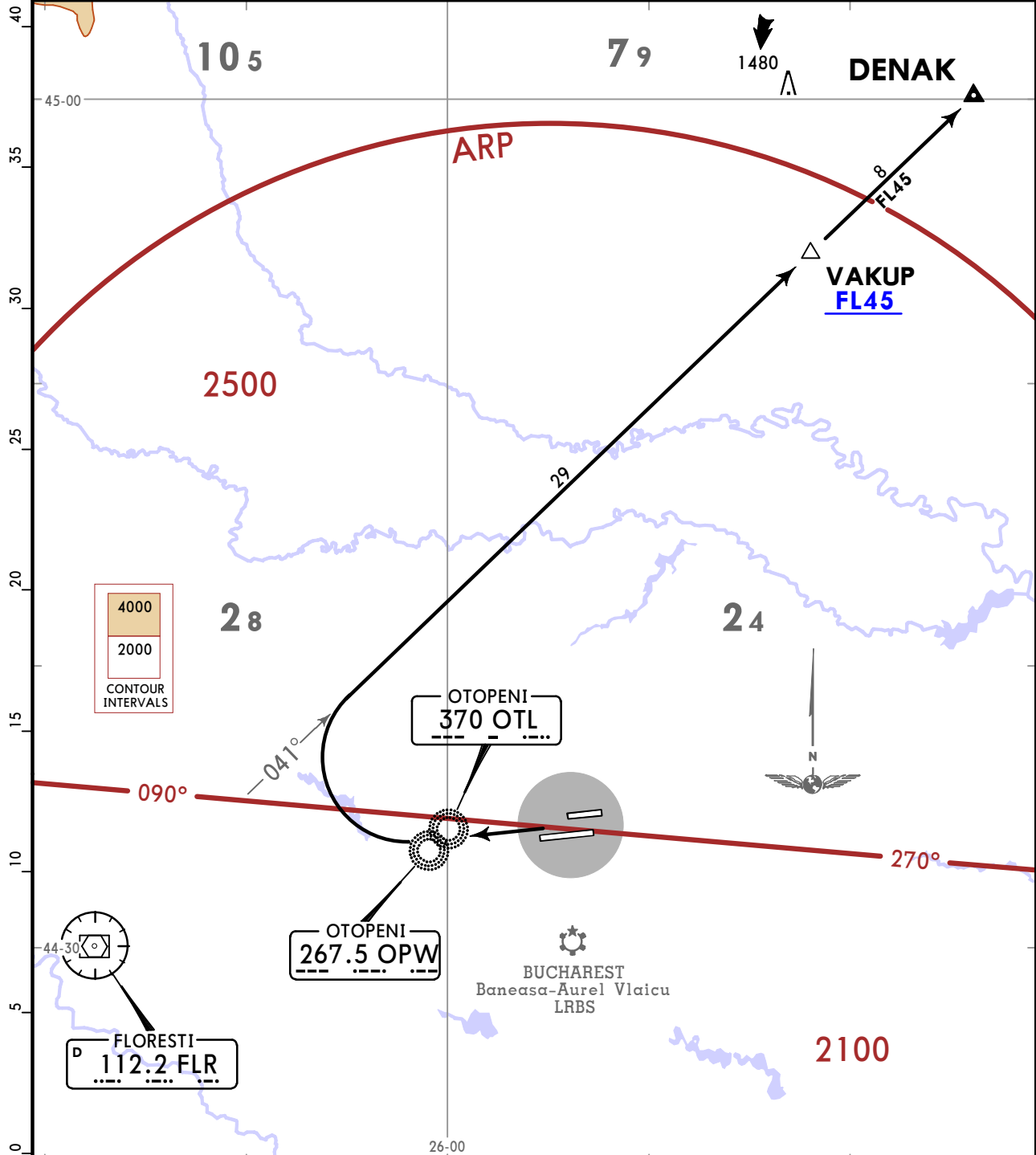
- LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼
- Set transponder:
- continue on assigned and acknowledged SID.
  - ▶ After 2 minutes climb to flight planned FL.
  - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.
- LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲

**ROUTING**  
To OTR/OPE, intercept FLR R073 to RIDPA, turn LEFT, intercept OPT R343 to DENAK.

**LROP/OTP**  
**HENRI COANDA**

BUCHAREST Approach (R) <b>119.415</b> <b>120.6</b> Apt Elev <b>314</b>	Trans alt: 4000 1. SIDs are also noise abatement routings. Strict adherence within the limits of aircraft performance is mandatory. 2. EXPECT close-in obstacles. 3. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID. 4. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.
---	---

**DENAK 5C [DENA5C]**  
**RWYS 26L/R DEPARTURE**



This SID requires a minimum climb gradient of 4.2% due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.2% V/V(fpm)	319	425	638	851	1063	1276

LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

Set transponder:

- continue on assigned and acknowledged SID.
- After 2 minutes climb to flight planned FL.
- if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.

LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲

**ROUTING**

To OTL/OPW, turn RIGHT, intercept FLR R041 to DENAK.

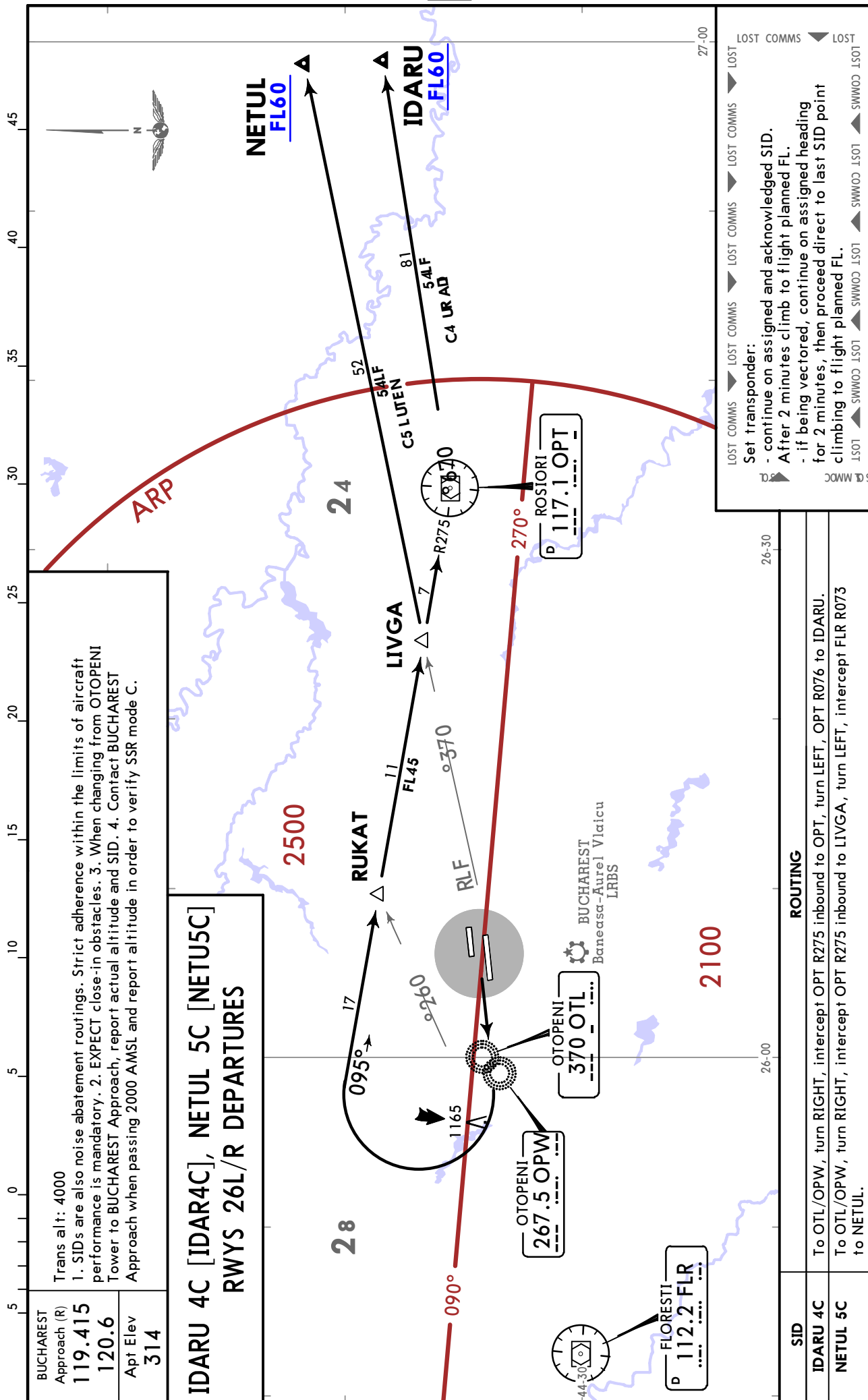


# LROP/OTP HENRI COANDA

2 AUG 19 (20-3L)

# BUCHAREST, ROMANIA

SID



Trans alt: 4000  
 BUCHAREST  
 Approach (R)  
 119.415  
 120.6  
 Apt Elev  
 314

1. SIDs are also noise abatement routings. Strict adherence within the limits of aircraft performance is mandatory.  
 2. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.  
 3. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

**BUKEL 1A [BUKE1A]**  
**POLUN 5A [POLU5A]**  
**SOKRU 1A [SOKR1A]**  
**RWYS 08L/R DEPARTURES**

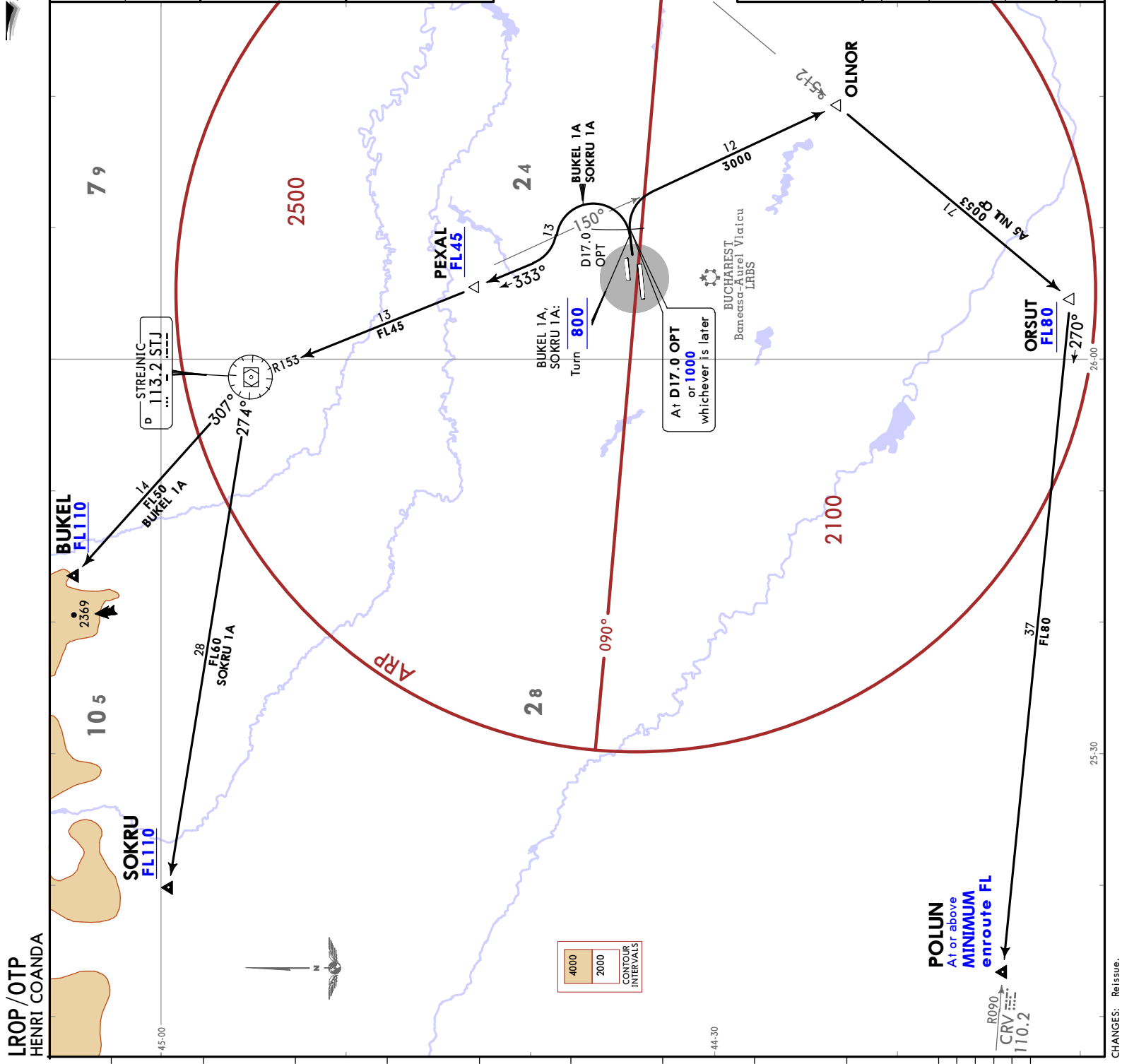
SWWDJ LSOT ▲ SWWDJ LSOT ▲ SWWDJ LSOT ▲ SWWDJ LSOT ▲  
 Set transponder to 7600, then:  
 - continue on assigned and acknowledged SID.  
 After 2 minutes climb to flight planned FL.  
 - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.  
 LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

**BUKEL 1A**  
 This SID requires a minimum climb gradient of 4.4% due to air-space structure.

Gnd speed-KT	75	100	150	200	250	300
4.4% V/V (fpm)	334	446	668	891	1114	1337

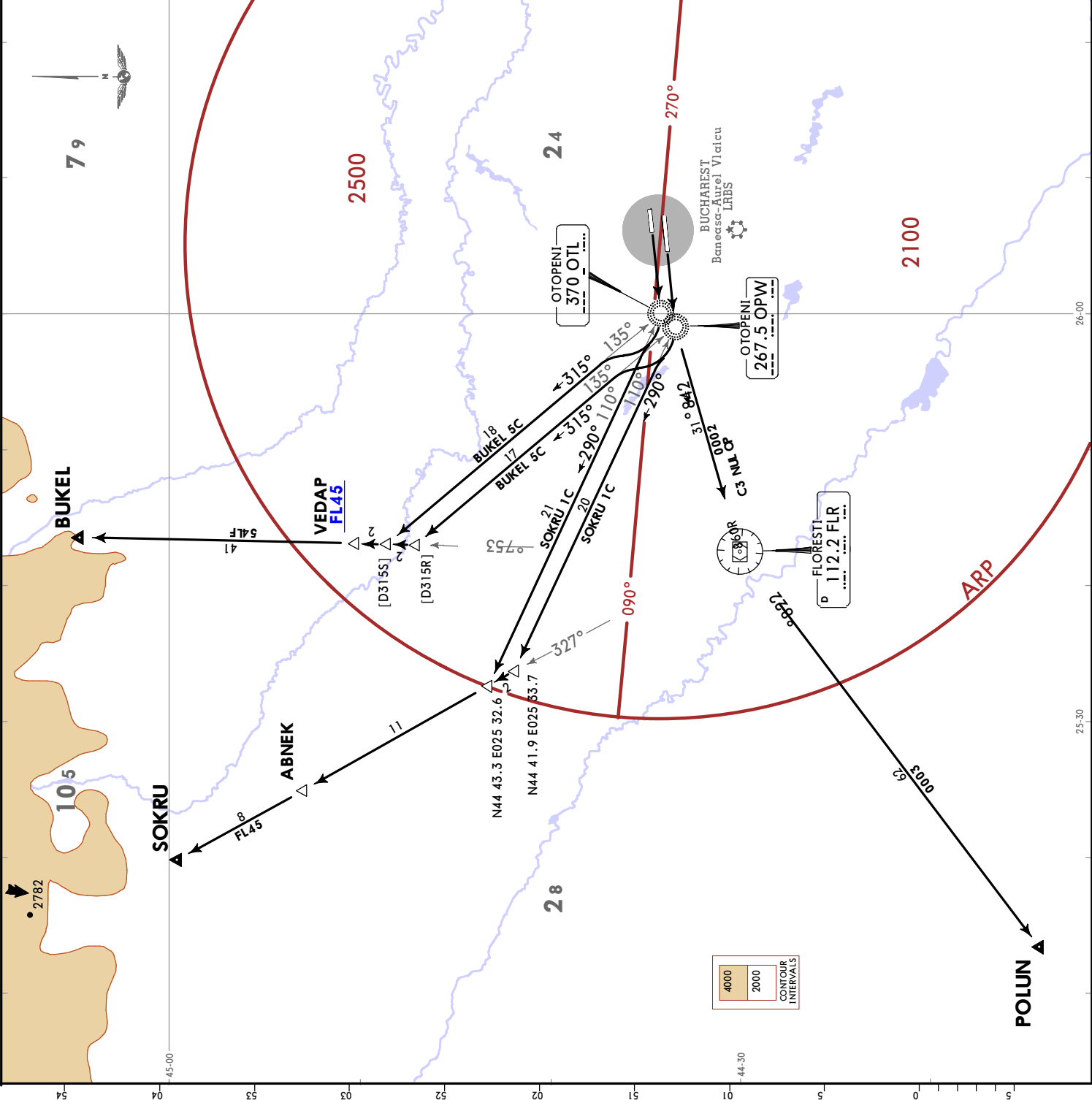
SID		ROUTING	
<b>BUKEL 1A</b>	1	Climb on runway track to 800, intercept STJ R153 inbound to STJ, STJ R307 to BUKEL.	
<b>POLUN 5A</b>	2	Climb on runway track to D17.0 OPT or 1000, whichever is later, turn RIGHT, intercept STJ R150 to OLNOR, turn RIGHT, intercept OPT R215 to ORSUT, turn RIGHT, intercept CRV R090 inbound to POLUN.	
<b>SOKRU 1A</b>	3	Climb on runway track to 800, intercept STJ R153 inbound to STJ, STJ R274 to SOKRU.	

1 Not available for traffic to NEPOT.  
 2 Not available for traffic to MOPUG.  
 3 Not available for traffic to DIRER.



Trans alt: 4000  
 1. SIDs are also noise abatement routings.  
 Strict adherence within the limits of aircraft performance is mandatory.  
 2. EXPECT close-in obstacles.  
 3. When changing from OTOPENI Tower to BUCHAREST Approach, report actual altitude and SID.  
 4. Contact BUCHAREST Approach when passing 2000 AMSL and report altitude in order to verify SSR mode C.

**BUKEL 5C [BUKE5C]**  
**POLUN 3C [POLU3C]**  
**SOKRU 1C [SOKR1C]**  
**RWYS 26L/R DEPARTURES**



**OTOPENI 370 OTL**  
**OTOPENI 267.5 OPW**

**VEDAP FL45**

**FLORESTI 112.2 FLR**

**BUCHAREST**  
Beneasa-Aurel Vlaicu  
LRBS

**SWMOD LSOT** **SWMOD LSOT** **SWMOD LSOT** **SWMOD LSOT** **SWMOD LSOT**  
**LOST COMMS** **LOST COMMS** **LOST COMMS** **LOST COMMS** **LOST COMMS**

Set transponder to 7600, then:  
 - continue on assigned and acknowledged SID.  
 After 2 minutes climb to flight planned FL.  
 - if being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID point climbing to flight planned FL.

These SIDs require minimum climb gradients of  
**BUKEL 5C:** 4.5% due to airspace structure.  
**POLUN 3C:** 3.6% due to airspace structure.  
**SOKRU 1C:** 3.9% due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.9% V/V(fpm)	296	395	592	790	987	1185
3.6% V/V(fpm)	273	365	547	729	911	1094

**SID ROUTING**

**BUKEL 5C 1** To OTL/OPW, turn RIGHT, intercept 315° bearing from OTL/OPW, intercept FLR R357 to BUKEL.

**POLUN 3C 2** To OTL/OPW, turn LEFT, intercept FLR R068 inbound to FLR, FLR R228 to POLUN.

**SOKRU 1C 3** To OTL/OPW, turn RIGHT, intercept 290° bearing from OTL/OPW, intercept FLR R327 to SOKRU.

1 Not available for traffic to NEPOT.  
 2 Not available for traffic to MOPUG.  
 3 Not available for traffic to DIRER.

# LROP/OTP

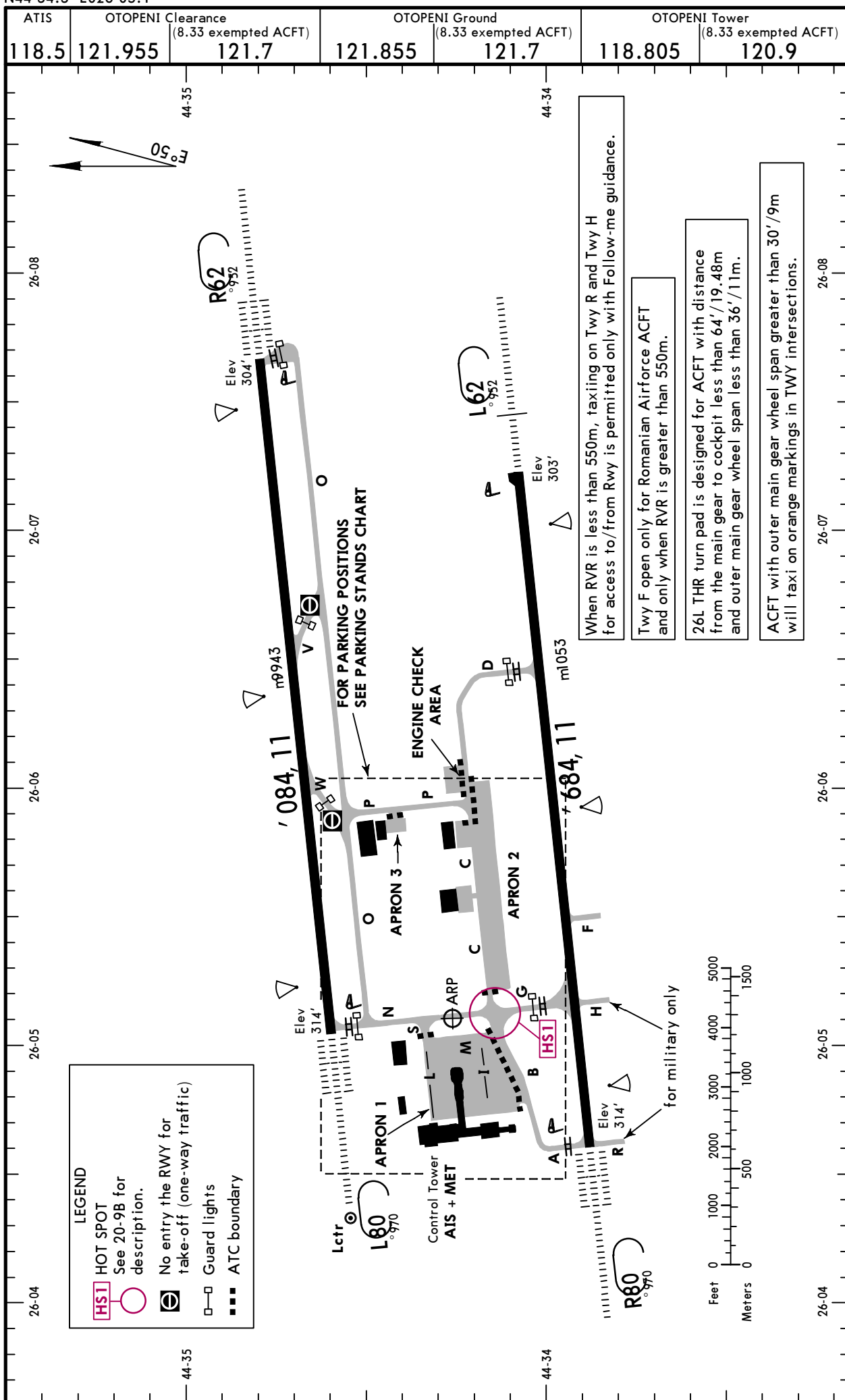
Apt Elev **314'**  
N44 34.3 E026 05.1



# BUCHAREST, ROMANIA

4 AUG 23 **(20-9)** Eff 10 Aug

HENRI COANDA



# LROP/OTP

**JEPPESEN**  
4 AUG 23 **(20-9A)** Eff 10 Aug

# BUCHAREST, ROMANIA

HENRI COANDA

### ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		LANDING	BEYOND		
		Threshold	Glide Slope		
08L	HIRL (60m) CL (15m) ① ALSF-II TDZ ② HSTIL-V ③ RVR	11,460' 3493m	10,508' 3203m		148' 45m
26R	HIRL (60m) CL (15m) ① ALSF-II TDZ ② HSTIL-W ③ RVR				
① length 900m ② PAPI-L (3.0°) ③ OFZ					
08R	HIRL (60m) CL (15m) ④ ALSF-II TDZ ⑤ OFZ RVR	11,467' 3495m	10,332' 3149m	⑥	148' 45m
26L	HIRL (60m) CL (15m) ④ HIALS PAPI-L (2.7°) OFZ RVR	11,463' 3494m	10,392' 3167m		
④ length 900m ⑤ PAPI-L (2.7°) ⑥ TAKE-OFF RUN AVAILABLE RWY 08R: From rwy head 11,486' (3501m) twy G int 9068' (2764m) RWY 26L: From rwy head 11,486' (3501m) twy D int 8166' (2489m)					

### INS COORDINATES

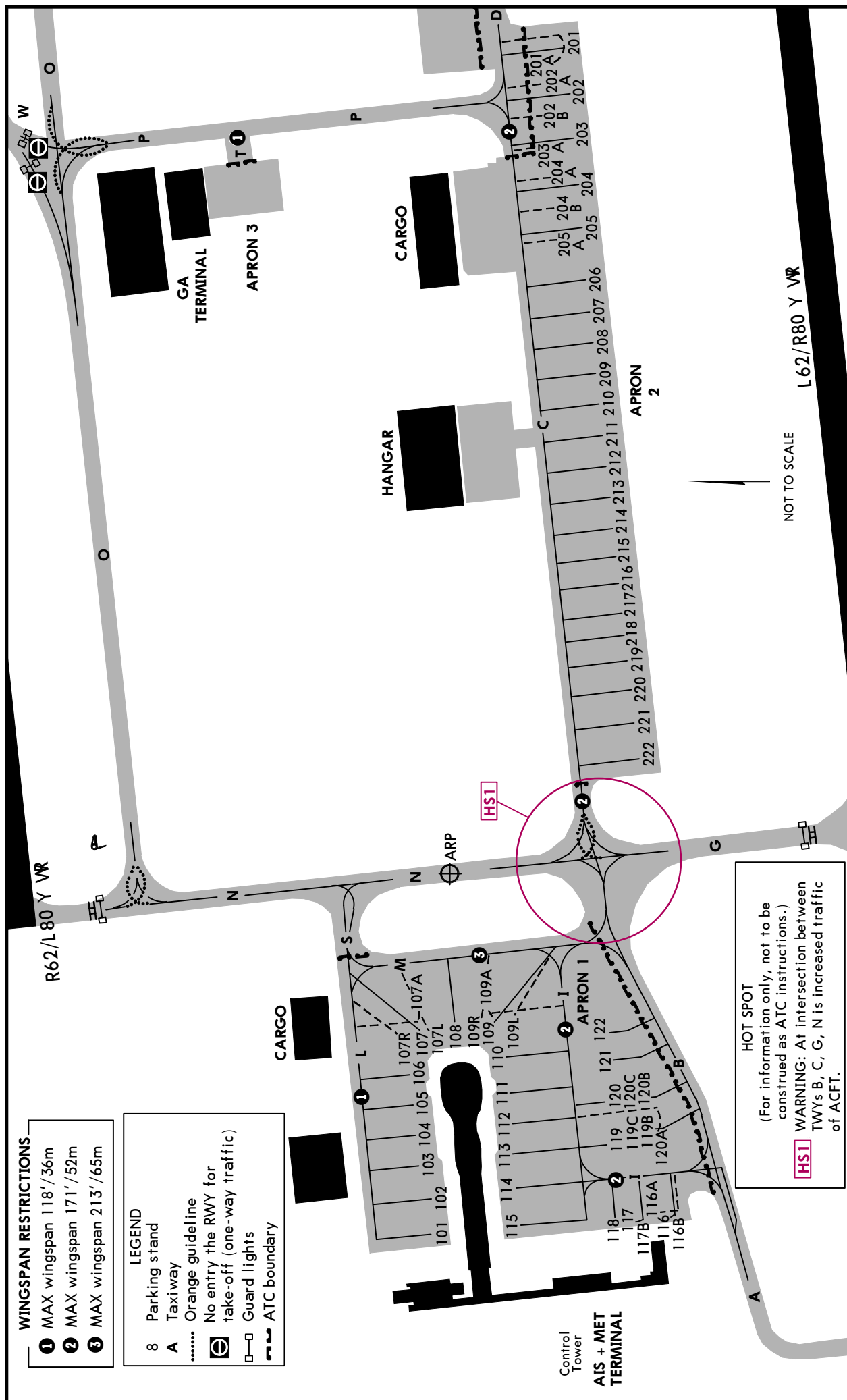
STAND No.	COORDINATES	STAND No.	COORDINATES
<b>APRON 1</b>		<b>APRON 2</b>	
101	N44 34.3 E026 04.7	201 thru 202A	N44 34.2 E026 06.0
102 thru 104	N44 34.3 E026 04.8	202B thru 204A	N44 34.2 E026 05.9
105 thru 107	N44 34.3 E026 04.9	204B	N44 34.2 E026 05.8
107A	N44 34.3 E026 05.0	205	N44 34.1 E026 05.8
107L, 107R	N44 34.3 E026 04.9	205A	N44 34.2 E026 05.8
108	N44 34.3 E026 04.9	206	N44 34.1 E026 05.8
109	N44 34.2 E026 04.9	207 thru 209	N44 34.1 E026 05.7
109A, 109L	N44 34.2 E026 05.0	210 thru 212	N44 34.1 E026 05.6
109R	N44 34.2 E026 04.9	213 thru 215	N44 34.1 E026 05.5
110, 111	N44 34.2 E026 04.9	216 thru 218	N44 34.1 E026 05.4
112 thru 114	N44 34.2 E026 04.8	219 thru 221	N44 34.1 E026 05.3
115	N44 34.2 E026 04.7	222	N44 34.1 E026 05.2
116 thru 118	N44 34.1 E026 04.7		
119 thru 119C	N44 34.1 E026 04.8		
120 thru 120C	N44 34.1 E026 04.9		
120A	N44 34.1 E026 04.8		
121, 122	N44 34.1 E026 04.9		

Std/State	TAKE-OFF								
	Low Visibility Take-off				RL or RCLM	RL or CL	Adequate Vis Ref		
	HIRL & CL (spacing 15m or less) & relevant RVR	RL & CL & relevant RVR	RL & CL	RL & RCLM			RL or CL	DAY	NIGHT
	TDZ R125m	TDZ R150m	R200m	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
	Mid R125m	Mid R150m		R300m		R/V400m		R/V500m	NA
	Rollout R125m	Rollout R150m							

CHANGES: OFZ added, take-off run available.

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# LROP/OTP



**WINGSPAN RESTRICTIONS**

- ① MAX wingspan 118'/36m
- ② MAX wingspan 171'/52m
- ③ MAX wingspan 213'/65m

**LEGEND**

- 8 Parking stand
- A Taxiway
- ..... Orange guideline
- No entry the RWY for take-off (one-way traffic)
- ⊕ Guard lights
- ATC boundary

**HOT SPOT**  
(For information only, not to be construed as ATC instructions.)  
**WARNING:** At intersection between TWYs B, C, G, N is increased traffic of ACFT.

NOT TO SCALE

L62/R80 Y VR

R62/L80 Y VR

## DOCKING GUIDANCE SYSTEM (SAFEDOCK)

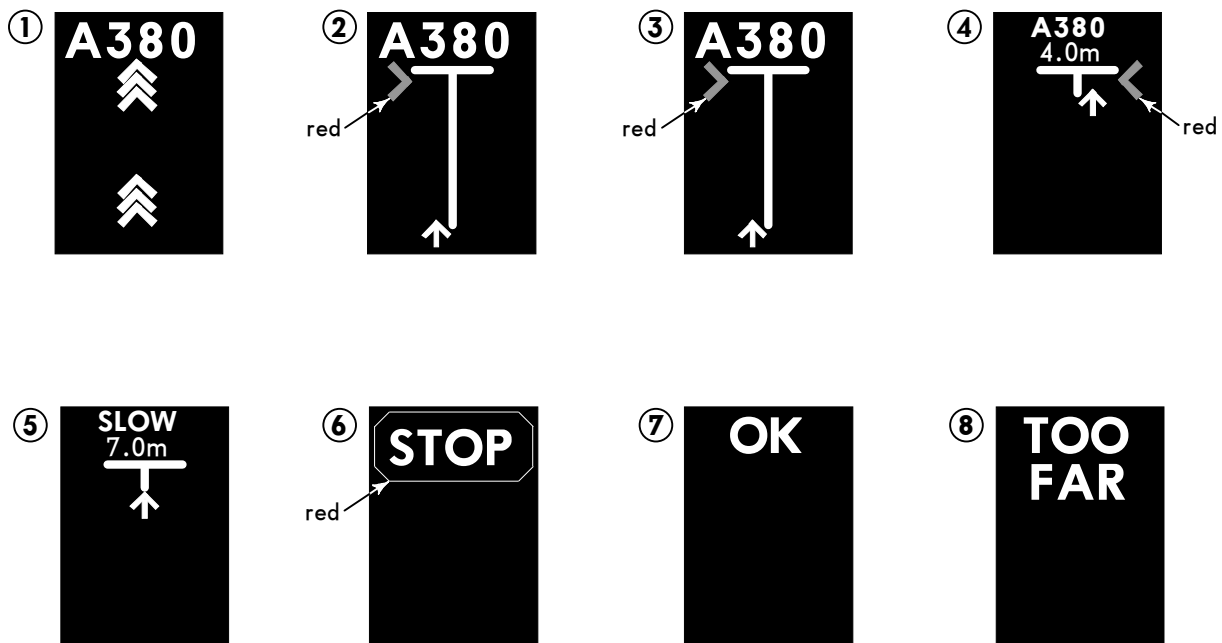
### A. DESCRIPTION

The docking system consists of a display unit and a laser unit to identify type and position of aircraft.

### B. DOCKING PROCEDURE

**CAUTION:** The safedock docking guidance system has a built-in error detecting program to inform the acft pilots of possible hazards during the docking procedure. During the acft approach to the terminal gate, the docking guidance system automatically confirms the identification of the acft. The acft must be identified at least 39' (12m) before the correct stop position. If this does not occur, the system displays "STOP" and then "WAIT" with two red, rectangular fields being lit in the azimuth guidance area of the display. While the acft is stopped, the system will attempt to identify it. If successful, the docking procedure will continue. If not, "WAIT" will be replaced with "STOP". If the display reverts to the "STOP" indication, the pilot must contact OTOPENI Ground to obtain clearance to complete the docking procedure.

### DOCKING SYSTEM T1



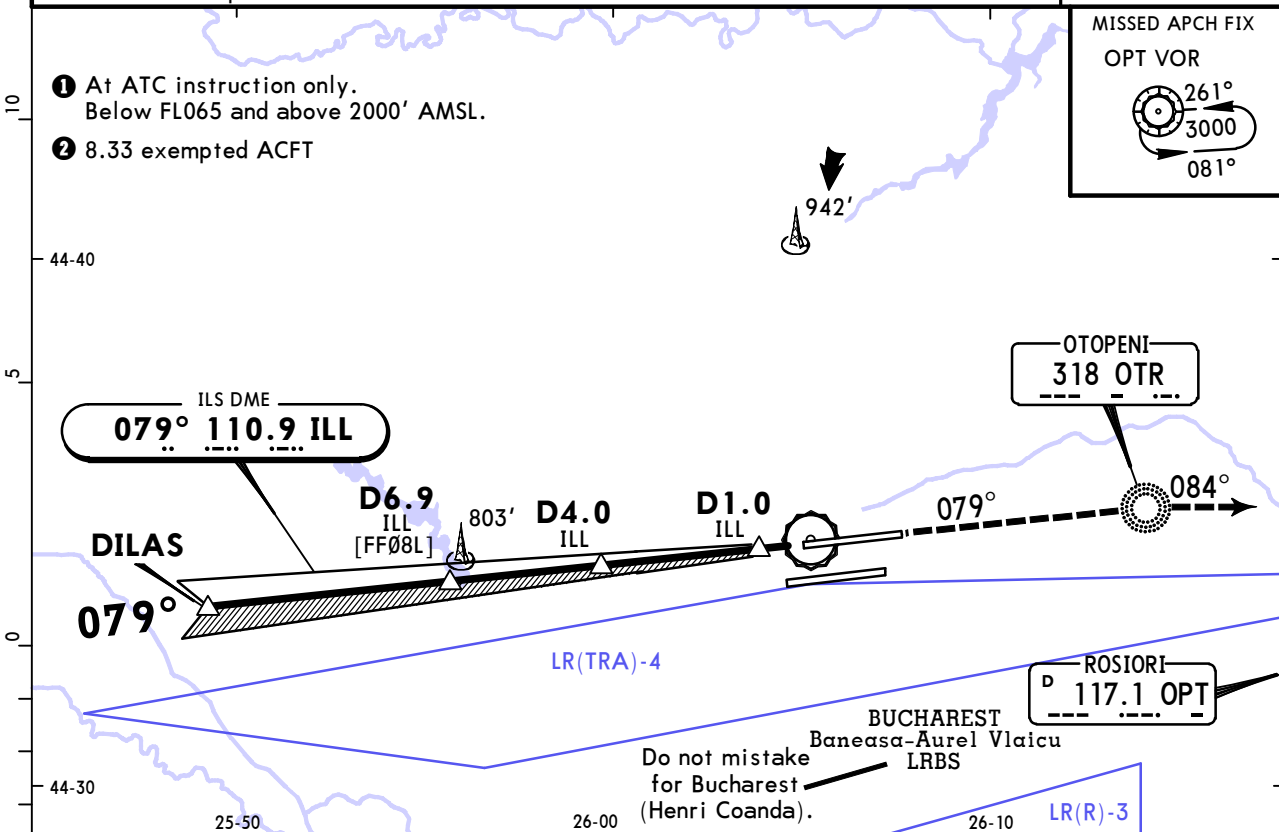
1. Check that the correct acft type is displayed. The scrolling arrows indicate that the system is activated.
2. Follow the lead in line. When the solid yellow closing rate field appears, the acft has been caught by the scanning unit. The scanning unit now checks that the acft is the correct type and the display provides azimuth guidance information.
3. Look for the flashing red arrow and solid yellow arrow which provide azimuth guidance information. The flashing red arrow shows which direction to steer, while solid yellow arrow gives an indication of how far the acft is off of the centerline.
4. When the acft is 39' (12m) from the stop position, closing rate information is given. "Distance to go" is indicated by turning off one row of LED's for each 2' (0.5 m) that the acft advances towards the stop position.
5. When the acft is approaching with too high speed, display will indicate "SLOW".
6. When the correct stop position is reached all of the LED's for the closing rate field will be off, the word "STOP" will appear in the display and two red rectangular fields will light in the azimuth guidance area of the display.
7. If the acft stops in the correct position, "OK" will be displayed after a few seconds.
8. If the acft has gone past the correct stop position, the display will show "T-FAR" (too far).

# LROP/OTP HENRI COANDA

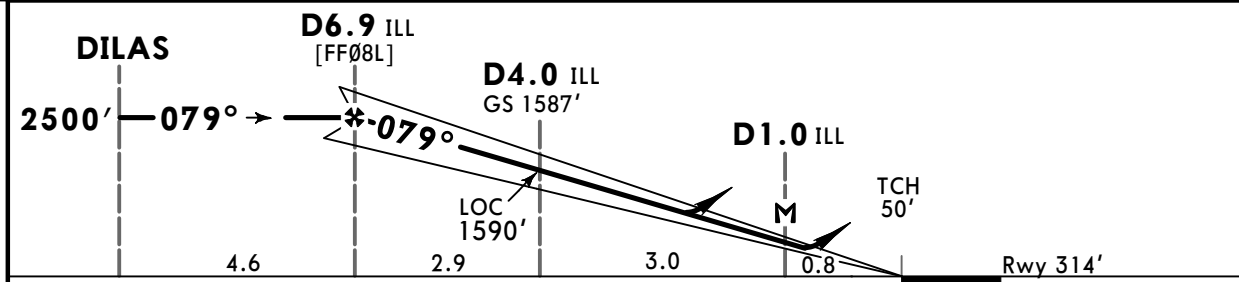
**JEPPESSEN**  
26 NOV 21 (21-1)

# BUCHAREST, ROMANIA ILS Rwy 08L

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①		OTOPENI Tower	Ground
118.5	119.415 120.6	127.155	120.6	118.805 120.9②	121.855 121.7②
LOC ILL <b>110.9</b>	Final Apch Crs <b>079°</b>	D6.9 ILL <b>2500'</b> (2186')	ILS DA(H) <b>514'</b> (200')	Apt Elev 314' Rwy 314'	
<b>MISSED APCH: Climb via OTR NDB to OPT VOR to 3000' and hold, or as directed.</b>					
Alt Set: hPa (MM on req)			Rwy Elev: 11 hPa	Trans level: By ATC	Trans alt: 4000'
ADF and DME required.					MSA ARP



LOC (GS out)	ILL DME ALTITUDE	5.0	4.0	3.0	2.0
		1905'	1587'	1268'	950'



Gnd speed-Kts	70	90	100	120	140	160
GS	3.00°	372	478	531	637	743
MAP at D1.0 ILL						
D6.9 ILL to MAP	5.9	5:03	3:56	3:32	2:57	2:32

<b>Std/State</b>		STRAIGHT-IN LANDING			CIRCLE-TO-LAND Not authorized South of airport	
ILS		LOC (GS out) CDFA			Max Kts	
DA(H) <b>514'</b> (200')		DA/MDA(H) <b>690'</b> (376')			MDA(H)	
FULL	TDZ or CL out	ALS out		ALS out		
A				R1500m	100	780'(466') V1500m
B	R550m	② R550m	R1200m	R1000m	135	820'(506') V1600m
C					180	1010'(696') V2400m
D					205	1020'(706') V3600m

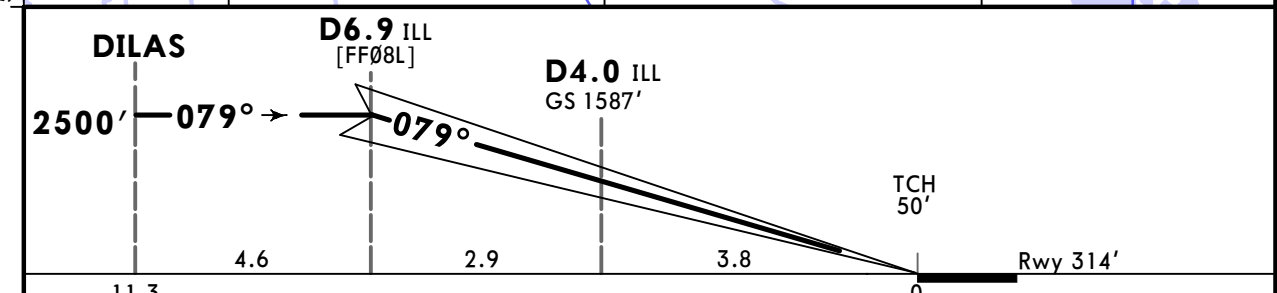
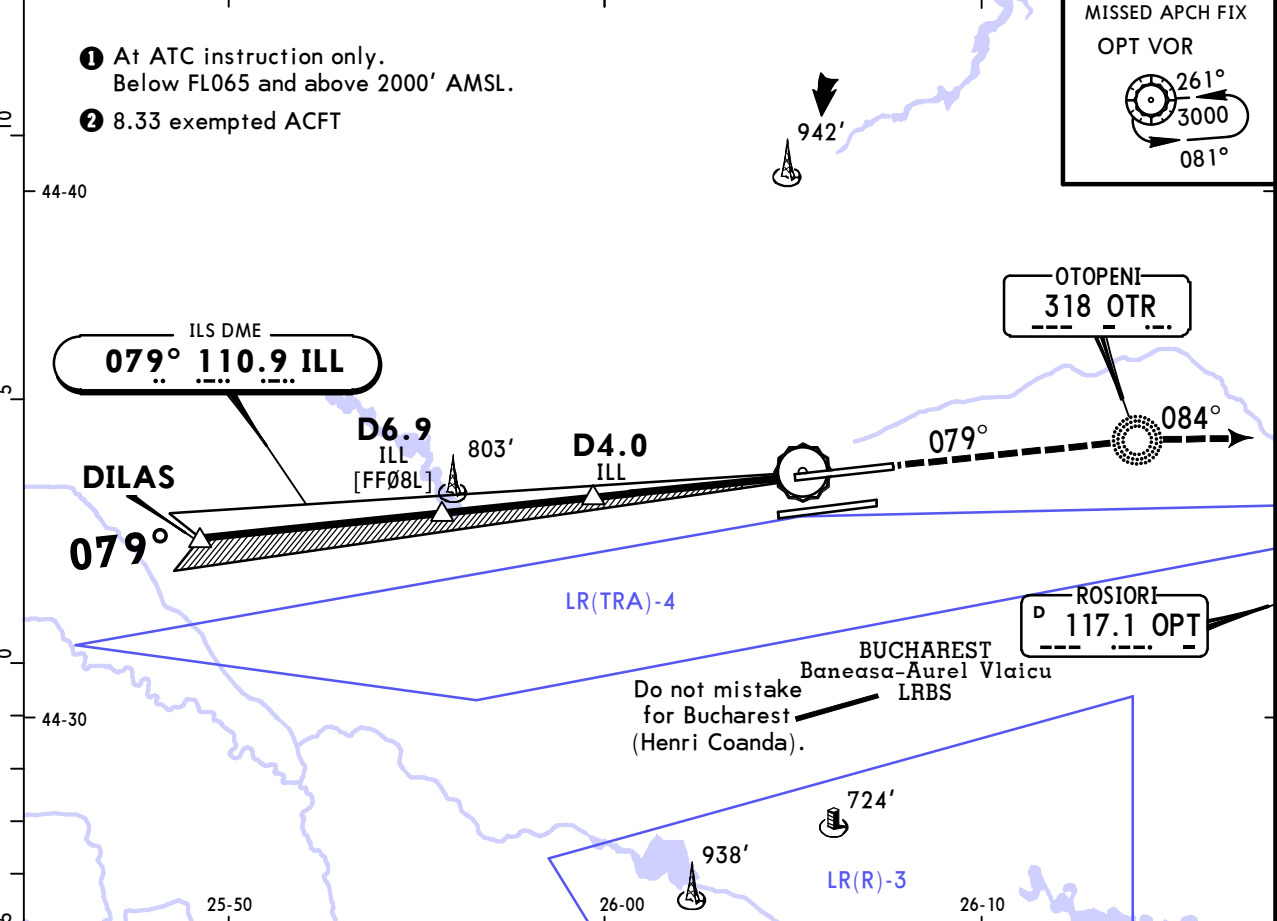
① VNAV DA(H) in lieu of MDA(H) depends on operator policy.  
② R750m when a Flight Director or Autopilot or HUD to DA is not used.

# LROP/OTP HENRI COANDA

26 NOV 21 **(21-1A)**

# BUCHAREST, ROMANIA CAT II ILS Rwy 08L

ATIS <b>118.5</b>	BUCHAREST Approach (R) <b>119.415</b>	<b>120.6</b>	*BUCHAREST Director ① <b>127.155</b>	<b>120.6</b>	OTOPENI Tower <b>118.805</b>	<b>120.9</b> ②	Ground <b>121.855</b>	<b>121.7</b> ②
LOC ILL <b>110.9</b>	Final Apch Crs <b>079°</b>	<b>D6.9 ILL</b> <b>2500'</b> (2186')	<b>CAT II ILS</b> <b>RA 99'</b> DA(H) <b>414'</b> (100')	Apt Elev 314' Rwy 314'				
<b>MISSED APCH: Climb via OTR NDB to OPT VOR to 3000' and hold, or as directed.</b>							MSA ARP	
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'								
1. ADF and DME required. 2. Special Aircrew & Acft Certification required.								



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II PAPI	OTR <b>318</b>
GS	3.00°	372	478	531	637	743		

**Std/State** STRAIGHT-IN LANDING

**CAT II ILS**

**RA 99'**  
DA(H) **414'** (100')

**R350m**

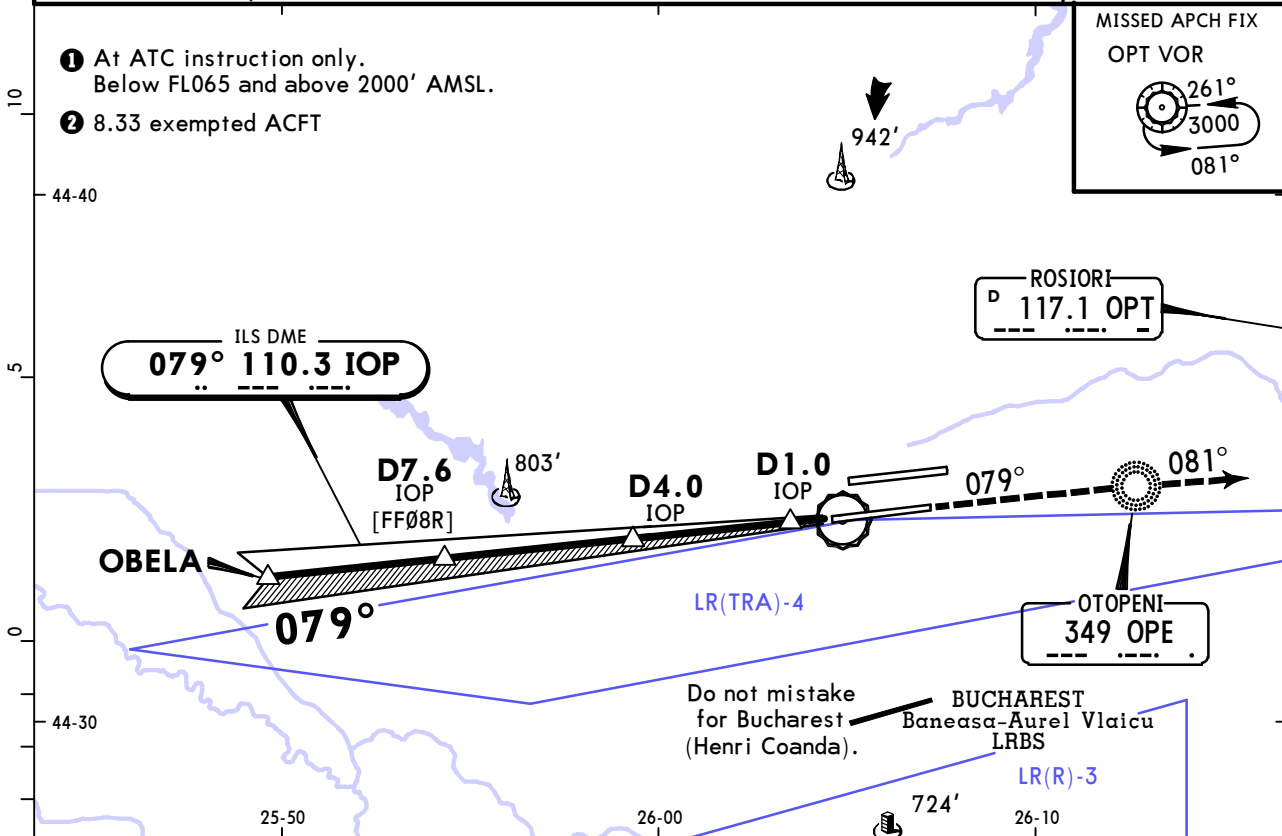
# LROP/OTP HENRI COANDA

**JEPPesen**  
23 APR 21 (21-2)

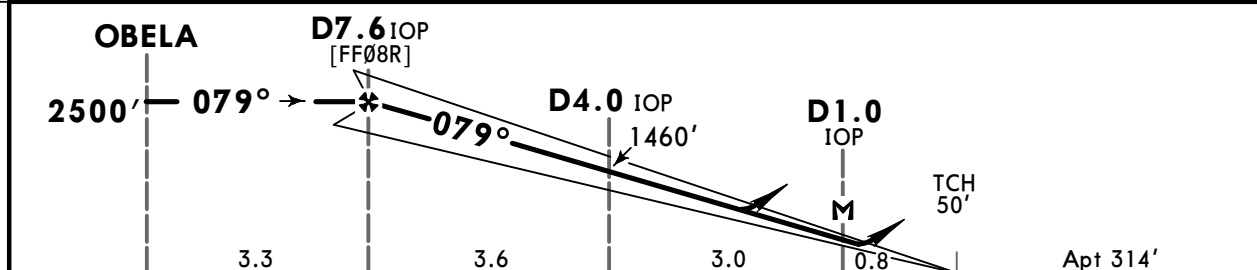
**BUCHAREST, ROMANIA**  
ILS Rwy 08R

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①	OTOPENI Tower	Ground
118.5	119.415 120.6	127.155 120.6	118.805 120.9②	121.855 121.7②
LOC IOP <b>110.3</b>	Final Apch Crs <b>079°</b>	D7.6 IOP <b>2500'</b> (2186')	ILS DA(H) <b>514'</b> (200')	Apt Elev 314'
<b>MISSED APCH: Climb via OPE NDB to OPT VOR to 3000' and hold, or as directed.</b>				
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'				MSA ARP
ADF, VOR, DME required.				

- ① At ATC instruction only. Below FL065 and above 2000' AMSL.
- ② 8.33 exempted ACFT



LOC (GS out)	IOP DME	6.0	5.0	4.0	3.0	2.0	1.0
	ALTITUDE	2033'	1747'	1460'	1174'	887'	601'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II PAPI	OPE <b>349</b>
ILS GS or LOC Descent Angle 2.70°	334	430	478	573	669	764		
MAP at D1.0 IOP								
D7.6 IOP to MAP	6.6	5:39	4:24	3:58	3:18	2:50	2:28	

Std/State	ILS STRAIGHT-IN LANDING				CIRCLE-TO-LAND Not authorized South of airport
	DA(H) 514' (200')		LOC (GS out) CDFA ② DA/MDA(H) 690' (376')		
	FULL	TDZ or CL out	ALS out	ALS out	Max Kts
A				R1500m	100
B	R550m	① R550m	R1200m	R1000m	135
C				R1700m	180
D					205
					MDA(H)
					780' (466') V1500m
					820' (506') V1600m
					1010' (696') V2400m
					1020' (706') V3600m

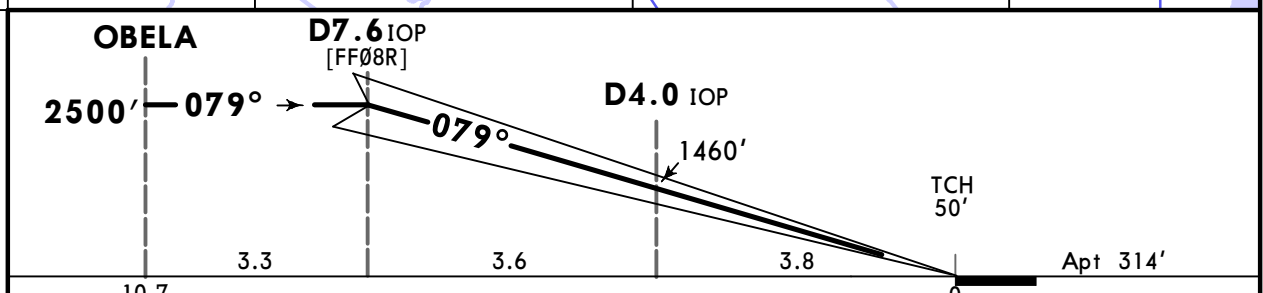
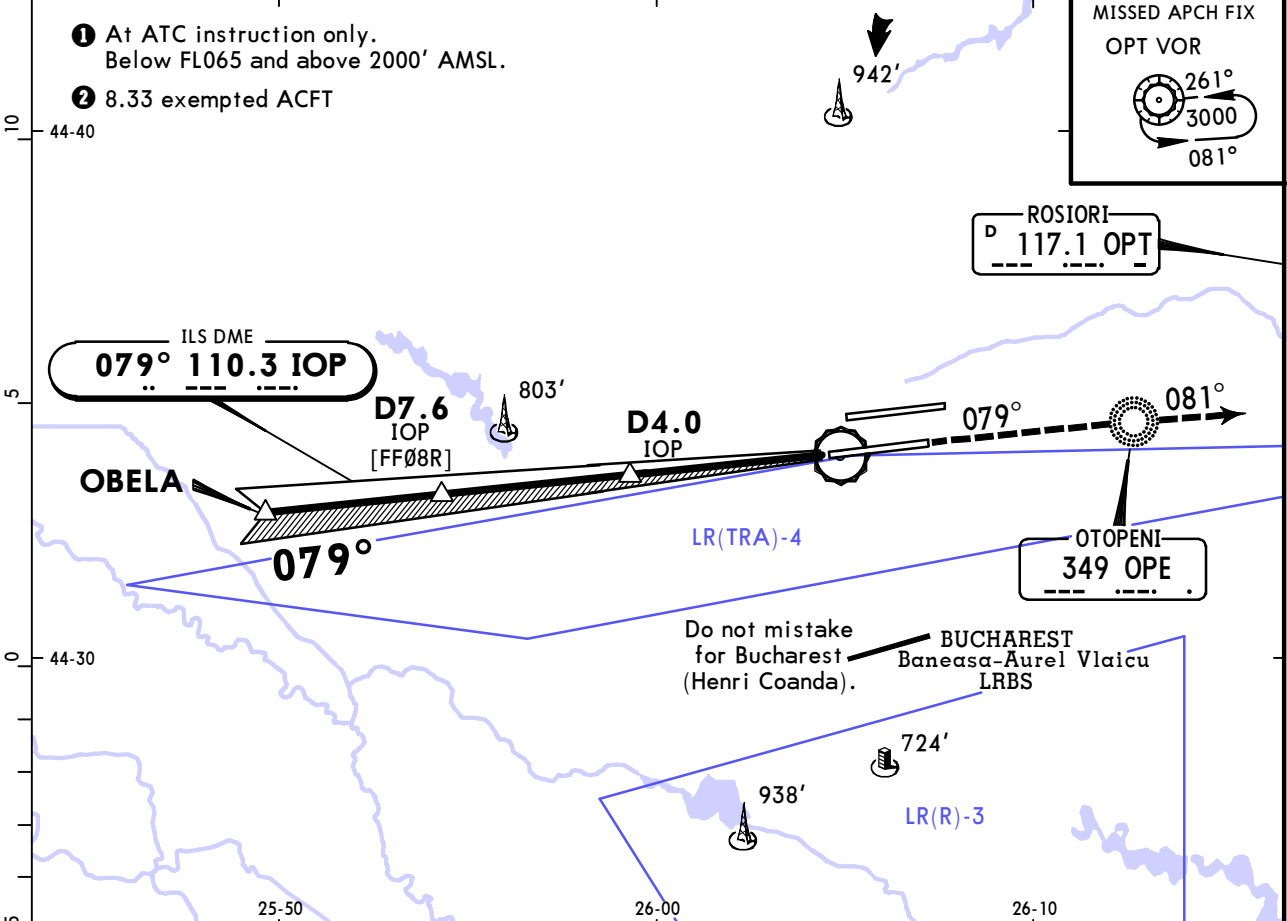
① R750m when a Flight Director or Autopilot or HUD to DA is not used.  
② VNAV DA(H) in lieu of MDA(H) depends on operator policy.

**LROP/OTP**  
**HENRI COANDA**

**JEPPESEN**  
23 APR 21 **(21-2A)**

**BUCHAREST, ROMANIA**  
**CAT II/III ILS Rwy 08R**

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①	OTOPENI Tower	Ground
118.5	119.415 120.6	127.155 120.6	118.805 120.9②	121.855 121.7②
LOC IOP <b>110.3</b>	Final Apch Crs <b>079°</b>	D7.6 IOP <b>2500'</b> (2186')	CAT IIIA & II ILS Refer to Minimums	Apt Elev 314'
<b>MISSED APCH: Climb via OPE NDB to OPT VOR to 3000' and hold, or as directed.</b>				
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'				MSA ARP
1. ADF, VOR, DME required. 2. Special Aircrew & Acft Certification required.				



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	OPE <b>349</b>
GS	2.70°	334	430	478	573	669		

<b>Std/State</b>	<b>STRAIGHT-IN LANDING</b>	
CAT IIIA ILS	DH <b>50'</b>	R200m
CAT II ILS	RA <b>102'</b> DA(H) <b>414'</b> (100')	<b>1</b> R300m

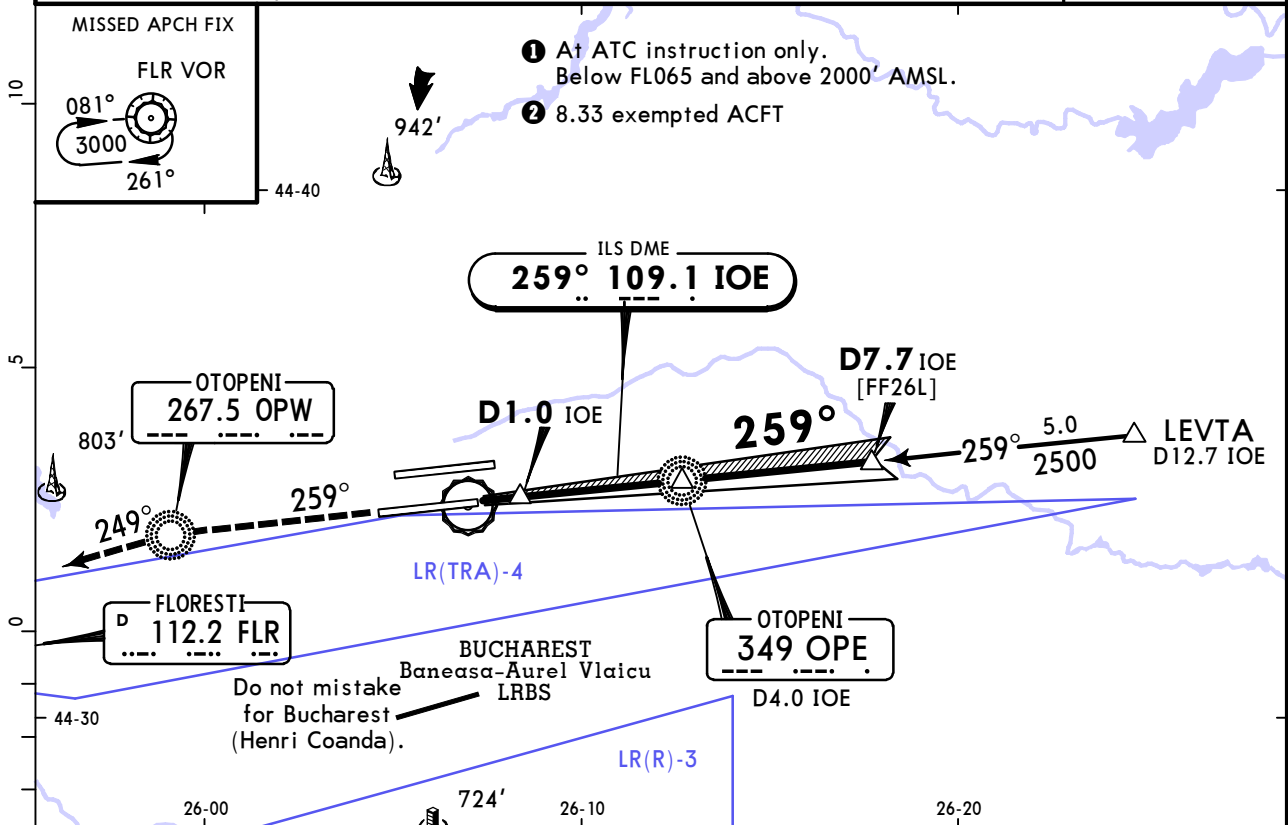
**1** CAT D without autoland: R350m.  
CHANGES: CAT IIIB ILS withdrawn. © JEPPESEN, 1998, 2021. ALL RIGHTS RESERVED.

# LROP/OTP HENRI COANDA

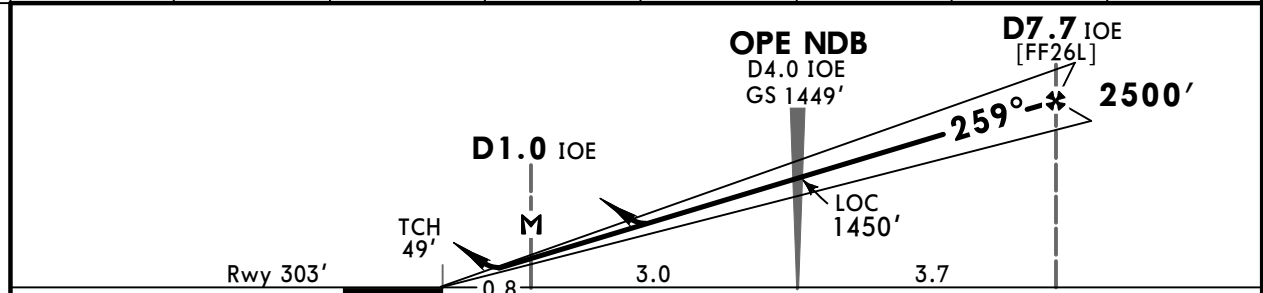
**JEPPESSEN**  
23 APR 21 **(21-3)**

# BUCHAREST, ROMANIA ILS Rwy 26L

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①			OTOPENI Tower	Ground	
118.5	119.415 120.6	127.155	120.6	118.805	120.9②	121.855	121.7②
LOC IOE <b>109.1</b>	Final Apch Crs <b>259°</b>	D7.7 IOE <b>2500'</b> (2197')	ILS DA(H) <b>503'</b> (200')	Apt Elev 314' Rwy 303'			
<b>MISSED APCH:</b> Climb via OPW NDB to FLR VOR to 3000' and hold, or as directed.							MSA ARP
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'							
ADF, VOR, DME required.							



LOC (GS out)	IOE DME	2.0	3.0	4.0	5.0	6.0	7.0
	ALTITUDE	876'	1163'	1449'	1736'	2022'	2309'



Gnd speed-Kts	70	90	100	120	140	160		OPW <b>267.5</b>
ILS GS or LOC Descent Angle	2.70°	334	430	478	573	669		
MAP at D1.0 IOE								
D7.7 IOE to MAP	6.7	5:45	4:28	4:01	3:21	2:52	2:31	

Std/State	STRAIGHT-IN LANDING			CIRCLE-TO-LAND Not authorized South of airport
	ILS	LOC (GS out) CDFA		
	DA(H) <b>503'</b> (200')	② DA/MDA(H) <b>730'</b> (427')		
	FULL	ALS out	ALS out	Max Kts
A				100 780'(466') V1500m
B	① R550m	R1200m	R1500m	135 820'(506') V1600m
C			R2000m	180 1010'(696') V2400m
D				205 1020'(706') V3600m

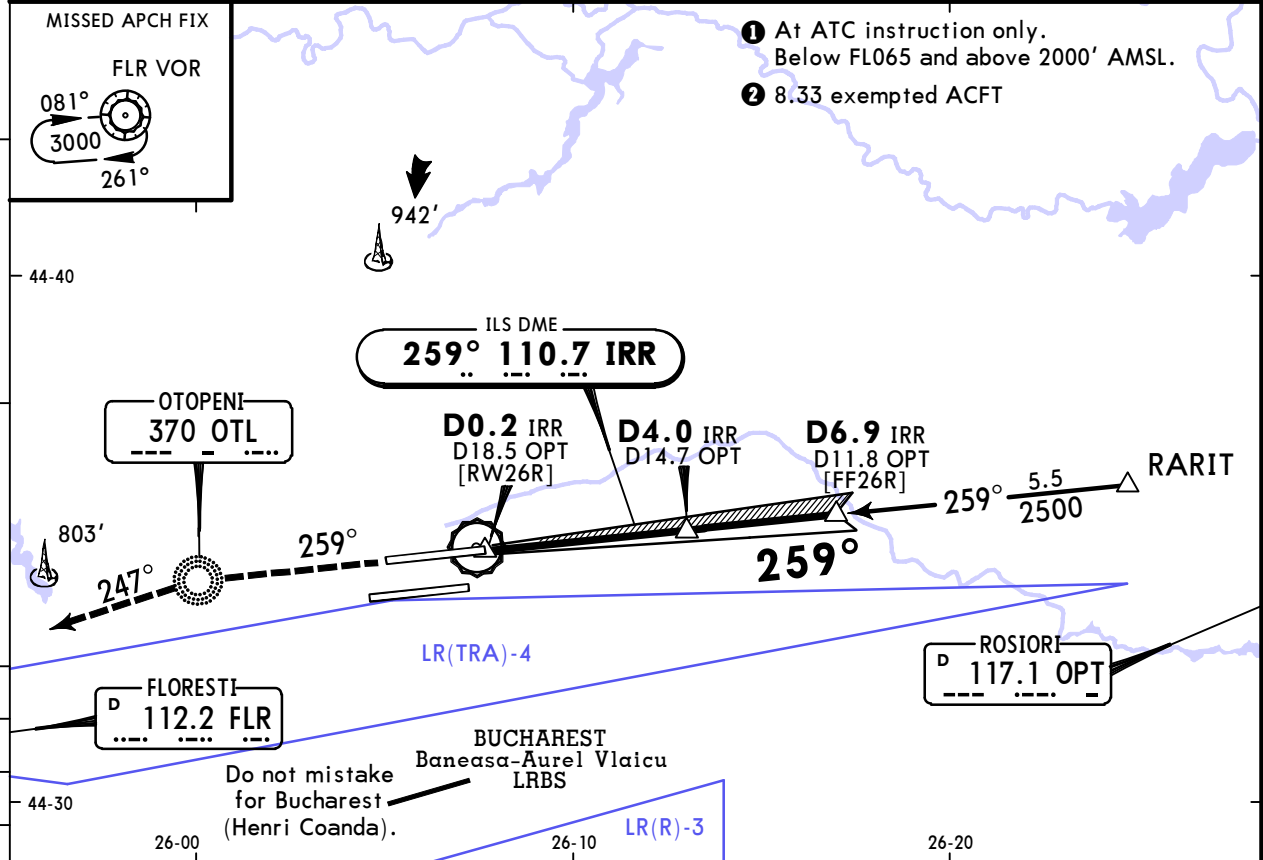
① R750m when a Flight Director or Autopilot or HUD to DA is not used.  
② VNAV DA(H) in lieu of MDA(H) depends on operator policy.

**LROP/OTP**  
**HENRI COANDA**

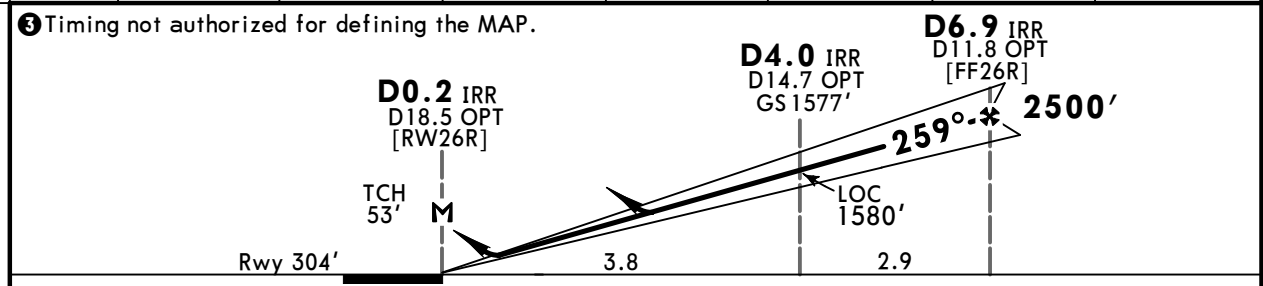
**JEPPESSEN**  
23 APR 21 **(21-4)**

**BUCHAREST, ROMANIA**  
**ILS Rwy 26R**

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①			OTOPENI Tower	Ground	
118.5	119.415 120.6	127.155	120.6	118.805	120.9②	121.855	121.7②
LOC IRR <b>110.7</b>	Final Apch Crs <b>259°</b>	D6.9 IRR <b>2500'</b> (2196')	ILS DA(H) Refer to Minimums	Apt Elev 314'	Rwy 304'		
<b>MISSED APCH: Climb via OTL NDB to FLR VOR to 3000' and hold, or as directed.</b>							MSA ARP
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'							
ADF, VOR, DME required.							



LOC (GS out)	IRR DME	1.0	2.0	3.0	4.0	5.0	6.0
	ALTITUDE	621'	940'	1258'	1577'	1895'	2214'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI OTL 370 
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743	
MAP at D0.2 IRR/D18.5 OPT							
D6.9 IRR to MAP ③	6.7	5:45	4:28	4:01	3:21	2:52	2:31

Std/State	STRAIGHT-IN LANDING				Max Kts	CIRCLE-TO-LAND Not authorized South of airport
	ILS		LOC (GS out)			
	DA(H)	ABC: <b>504'</b> (200')	D: <b>509'</b> (205')	CDFA		
				② DA/MDA(H) <b>680'</b> (376')		
	FULL	TDZ or CL out	ALS out	ALS out		
A					100	<b>780'</b> (466') V1500m
B	R550m	① R550m	R1200m	R1000m	135	<b>820'</b> (506') V1600m
C					180	<b>1010'</b> (696') V2400m
D					205	<b>1020'</b> (706') V3600m

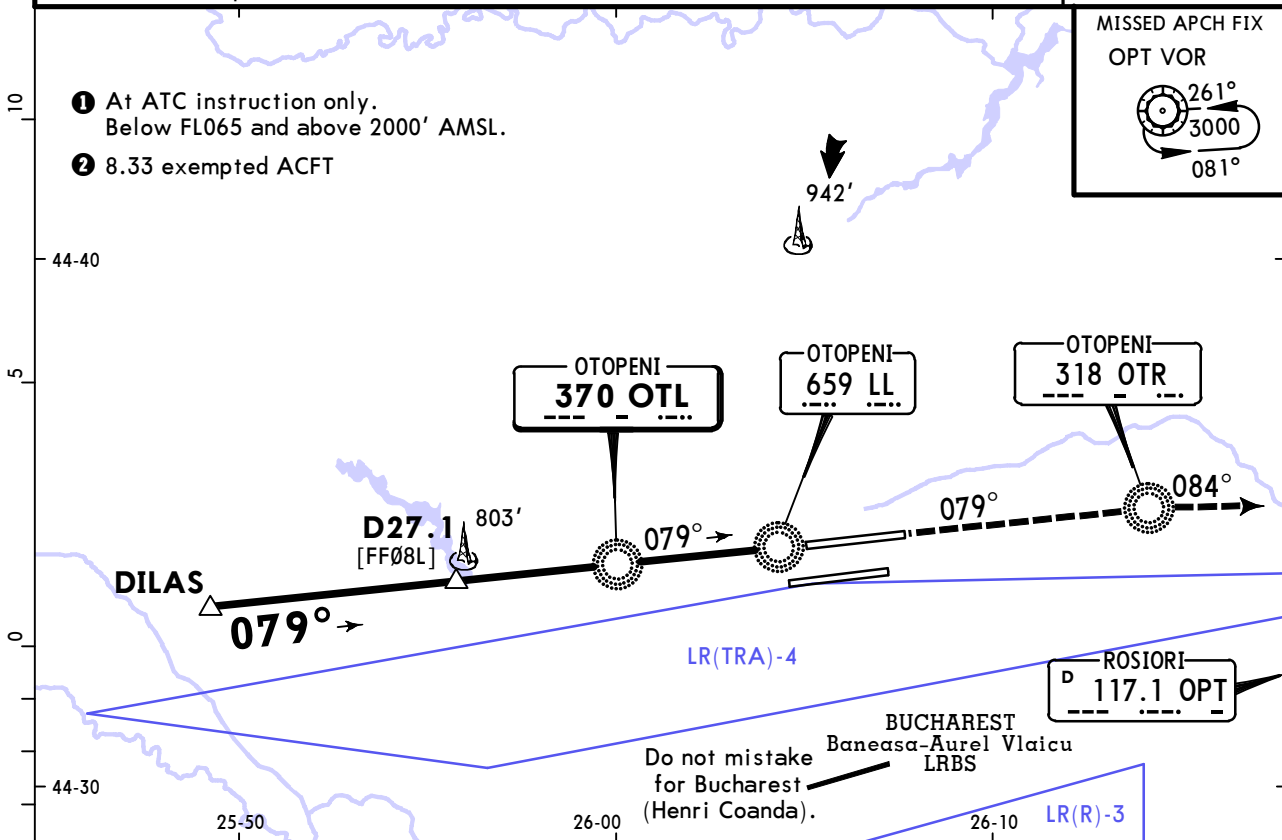
① R750m when a Flight Director or Autopilot or HUD to DA is not used.  
② VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# LROP/OTP HENRI COANDA

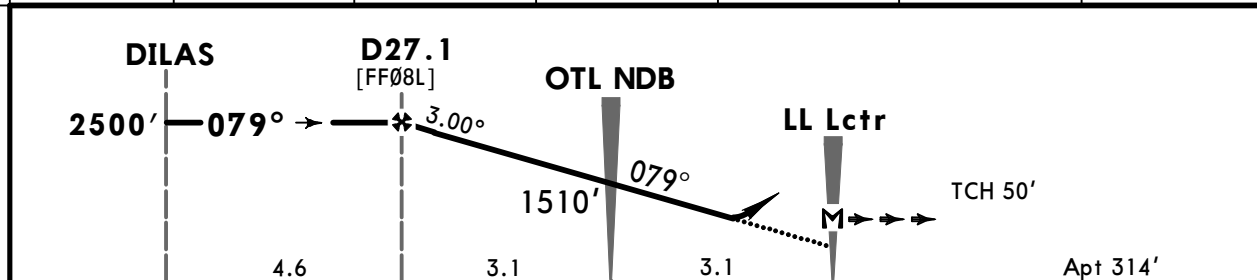
**JEPPESEN**  
5 MAR 21 (26-1)

# BUCHAREST, ROMANIA NDB Rwy 08L

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①		OTOPENI Tower		Ground	
118.5	119.415 120.6	127.155	120.6	118.805	120.9②	121.855	121.7②
NDB OTL <b>370</b>	Final Apch Crs <b>079°</b>	D27.1 <b>2500'</b> (2186')	DA/MDA(H) Refer to Minimums	Apt Elev 314'			
<b>MISSED APCH: Climb via OTR NDB to OPT VOR to 3000' and hold, or as directed.</b>						MSA ARP	
Alt Set: hPa (MM on req) Apt Elev: 11 hPa Trans level: By ATC Trans alt: 4000'							
VOR and DME required.							



OPT DME	27.0	26.0	25.0	24.0	23.0	22.0
ALTITUDE	2450'	2140'	1820'	1510'	1190'	870'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II PAPI	OTR <b>318</b>
Descent Angle 3.00°	372	478	531	637	743	849		
MAP at LL Lctr								
D27.1 to MAP	6.2	5:19	4:08	3:43	3:06	2:39	2:20	

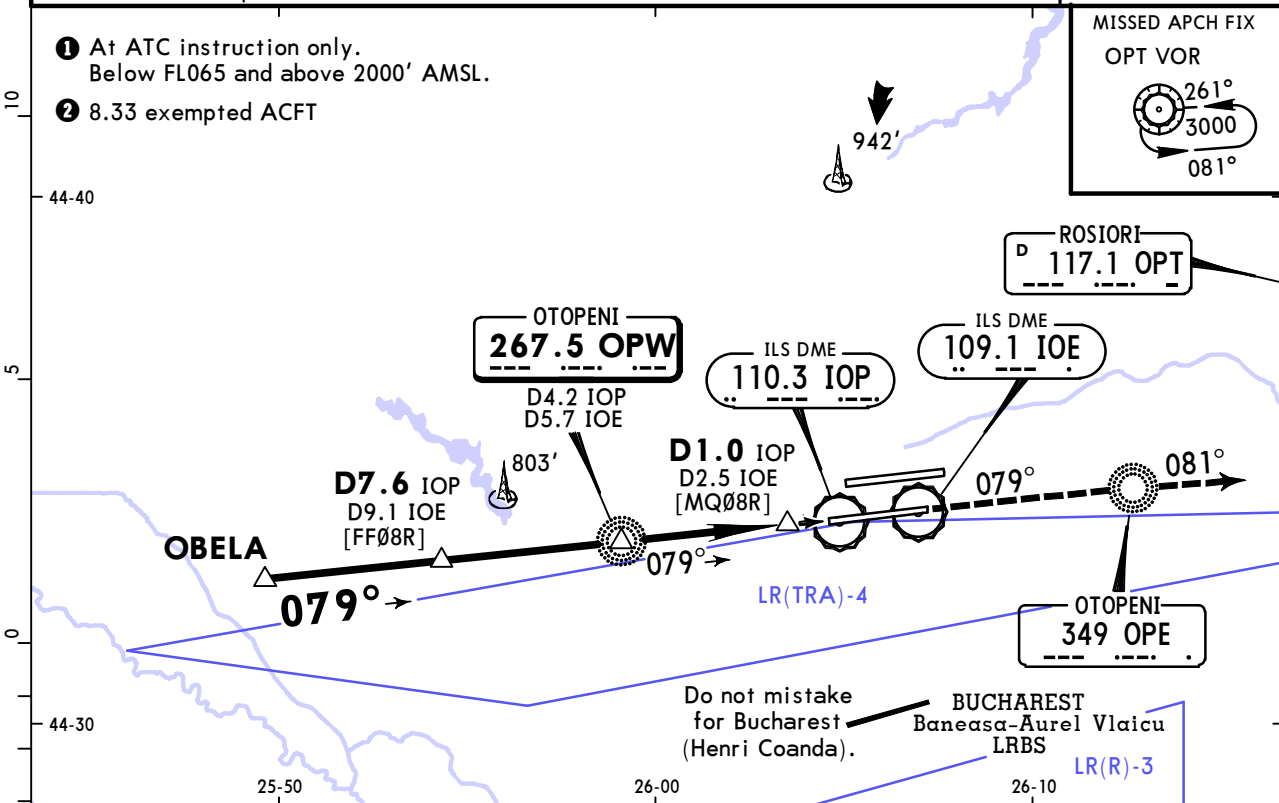
<b>Std/State</b> STRAIGHT-IN LANDING			CIRCLE-TO-LAND Not authorized South of airport		
CDFA					
DA/MDA(H) AB: <b>710'</b> (396') CD: <b>720'</b> (406')					
ALS out			Max Kts	MDA(H)	
A	R1100m	R1500m	100	<b>780'</b> (466')	V1500m
B			135	<b>820'</b> (506')	V1600m
C	R1200m	R1900m	180	<b>1010'</b> (696')	V2400m
D			205	<b>1020'</b> (706')	V3600m

# LROP/OTP HENRI COANDA

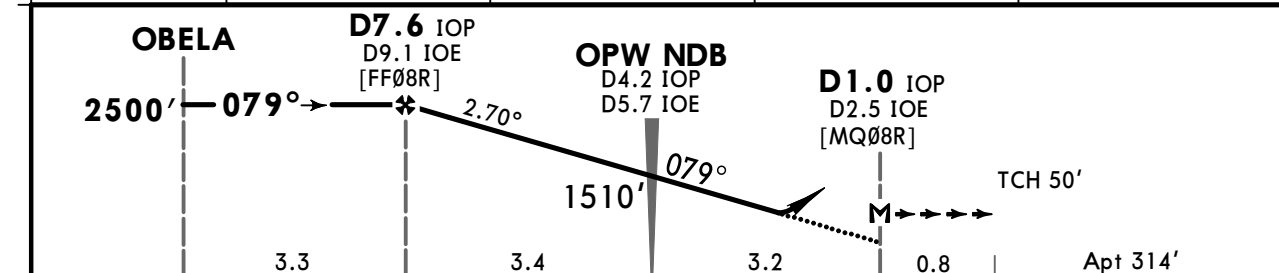
**JEPPESSEN**  
5 MAR 21 **(26-2)**

# BUCHAREST, ROMANIA NDB Rwy 08R

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①	OTOPENI Tower		Ground
118.5	119.415 120.6	127.155 120.6	118.805	120.9②	121.855 121.7②
NDB OPW <b>267.5</b>	Final Apch Crs <b>079°</b>	D7.6 IOP <b>2500'</b> (2186')	DA/MDA(H) Refer to Minimums	Apt Elev 314'	
<b>MISSED APCH: Climb via OPE NDB to OPT VOR to 3000' and hold, or as directed.</b>					
Alt Set: hPa (MM on req)			Apt Elev: 11 hPa	Trans level: By ATC	Trans alt: 4000'
VOR and DME required.					MSA ARP



IOP DME	5.0	4.0	3.0	2.0
IOE DME	6.5	5.5	4.5	3.5
ALTITUDE	1747'	1460'	1174'	887'



Gnd speed-Kts	70	90	100	120	140	160		OPE <b>349</b>
Descent Angle	2.70°	334	430	478	573	669		
MAP at D1.0 IOP/D2.5 IOE								
D7.6 IOP/D9.1 IOE to MAP	6.6	5:39	4:24	3:58	3:18	2:50	2:28	

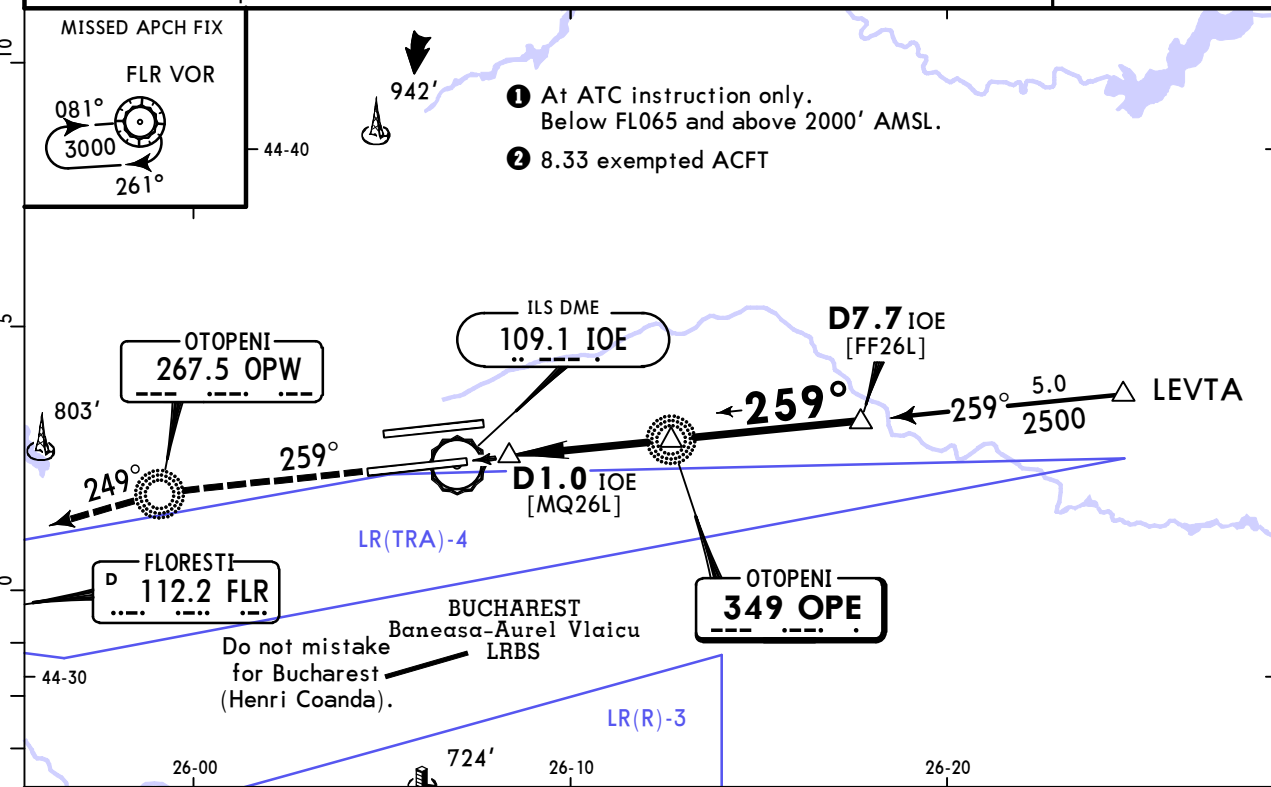
<b>Std/State</b> STRAIGHT-IN LANDING			CIRCLE-TO-LAND Not authorized South of airport	
CDFA				
DA/MDA(H) AB: <b>710'</b> (396') CD: <b>720'</b> (406')				
ALS out			Max Kts	MDA(H)
A	R1100m	R1500m	100	780' (466') V1500m
B			135	820' (506') V1600m
C	R1200m	R1900m	180	1010' (696') V2400m
D			205	1020' (706') V3600m

# LROP/OTP HENRI COANDA

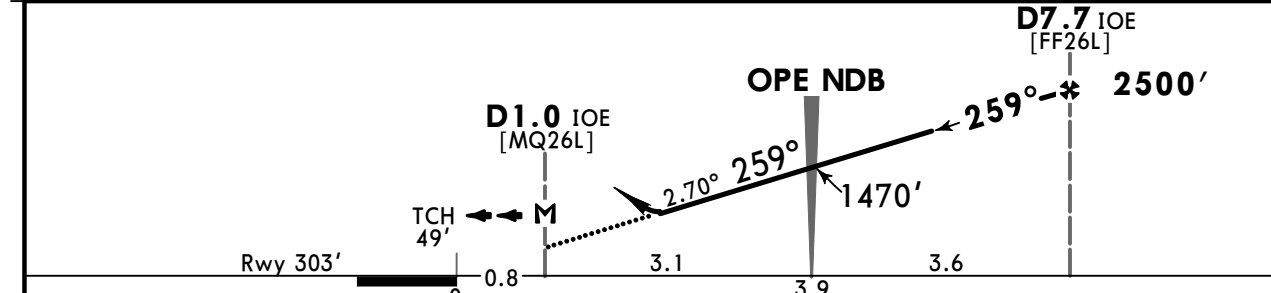
**JEPPESSEN**  
23 APR 21 **(26-3)**

# BUCHAREST, ROMANIA NDB Rwy 26L

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①			OTOPENI Tower	Ground	
118.5	119.415 120.6	127.155	120.6	118.805	120.9②	121.855	121.7②
NDB OPE <b>349</b>	Final Apch Crs <b>259°</b>	D7.7 IOE <b>2500'</b> (2197')	DA/MDA(H) <b>790'</b> (487')	Apt Elev 314' Rwy 303'			
<b>MISSED APCH: Climb via OPW NDB to FLR VOR to 3000' and hold, or as directed.</b>							MSA ARP
Alt Set: hPa (MM on req)				Rwy Elev: 11 hPa	Trans level: By ATC	Trans alt: 4000'	
VOR and DME required.							



IOE DME	2.0	3.0	4.0	5.0	6.0	7.0
ALTITUDE	876'	1163'	1449'	1736'	2022'	2309'



Gnd speed-Kts	70	90	100	120	140	160		OPW <b>267.5</b>
Descent Angle	2.70°	334	430	478	573	669		
MAP at D1.0 IOE								
D7.7 IOE to MAP	6.7	5:45	4:28	4:01	3:21	2:52	2:31	

PANS OPS	<b>Std/State</b>	STRAIGHT-IN LANDING				CIRCLE-TO-LAND Not authorized South of airport	
		CDFA ① DA/MDA(H) <b>790'</b> (487')					
		ALS out				Max Kts	MDA(H)
	A	R1500m				100	780' (466') V1500m
	B	R1500m				135	820' (506') V1600m
C	R1500m		R2300m		180	1010' (696') V2400m	
D	R1500m		R2300m		205	1020' (706') V3600m	

① VNAV DA(H) in lieu of MDA(H) depends on operator policy.

# LROP/OTP HENRI COANDA

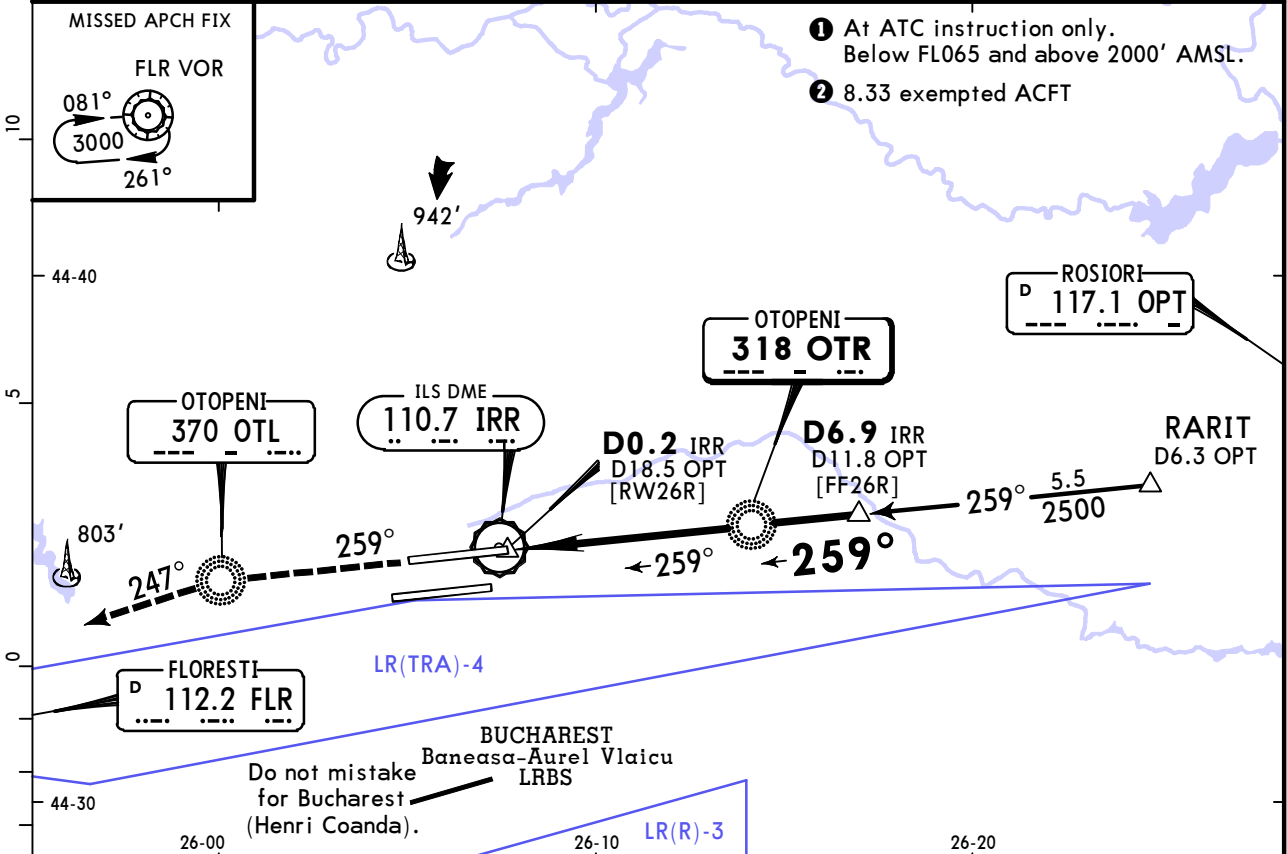
23 APR 21

(26-4)

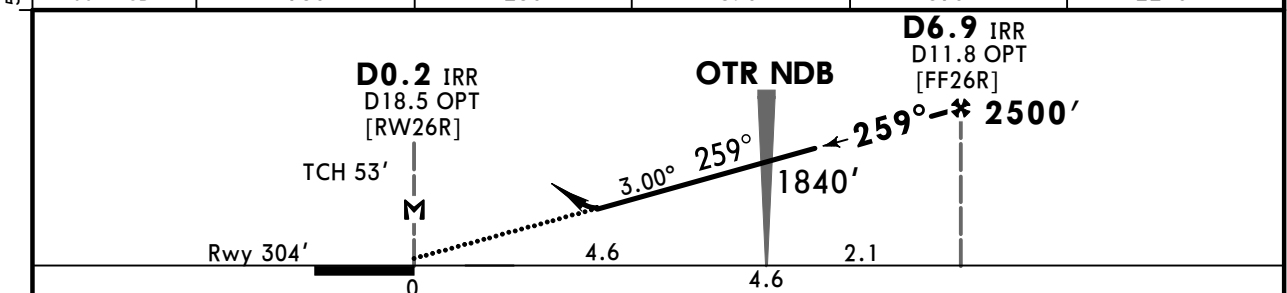


# BUCHAREST, ROMANIA NDB Rwy 26R

ATIS	BUCHAREST Approach (R)	*BUCHAREST Director ①			OTOPENI Tower	Ground	
118.5	119.415 120.6	127.155	120.6	118.805	120.9②	121.855	121.7②
NDB OTR <b>318</b>	Final Apch Crs <b>259°</b>	<b>D11.8 OPT</b> 2500' (2196')	DA/MDA(H) <b>690'</b> (386')	Apt Elev 314' Rwy 304'			
<b>MISSED APCH: Climb via OTL NDB to FLR VOR to 3000' and hold, or as directed.</b>						MSA ARP	
Alt Set: hPa (MM on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 4000'							
VOR and DME required.							



IRR DME	2.0	3.0	4.0	5.0	6.0
ALTITUDE	930'	1250'	1570'	1890'	2210'



Gnd speed-Kts	70	90	100	120	140	160		
Descent Angle	3.00°	372	478	531	637	849		
MAP at D0.2 IRR/D18.5 OPT								
D6.9 IRR/D11.8 OPT to MAP	6.7	5:45	4:28	4:01	3:21	2:52		

Timing not authorized for defining the MAP.

Std/State	STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
	CDFA		Not authorized South of airport	
	① DA/MDA(H) <b>690'</b> (386')			
	ALS out		Max Kts	MDA(H)
A	R1100m	R1500m	100	780' (466') V1500m
B			135	820' (506') V1600m
C			180	1010' (696') V2400m
D			205	1020' (706') V3600m

① VNAV DA(H) in lieu of MDA(H) depends on operator policy.

## Chart changes since cycle 15-2023

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
<b>BUCHAREST, (HENRI COANDA - LROP)</b>				
REV	AIRPORT	20-9	04 Aug 2023	10 Aug 2023
REV	AIRPORT INFO, PARKING COO...	20-9A	04 Aug 2023	10 Aug 2023

## TERMINAL CHART CHANGE NOTICES

### Chart Change Notices for Airport LROP

**Type:** Terminal

**Effectivity:** Temporary

**Begin Date:** 20180816

**End Date:** Until Further Notice

Based on SUP 02/18 following charts are suspended: - STAR (20-2H/J/K/L/M/N/P,Q) - SID (20-3H/J/K/L/M/N)