

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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No revision activity since Disc 22-2010

TERMINAL CHART NOTAMs

Chart NOTAMs for Airport LRCL

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Eff 12 FEB 09 IAP ILS DME rwy 26 (11-1) replaced by temp IAP ILS DME rwy 26; refer to 11-01 and latest NOTAMs.

LRCL (Cluj Napoca)**General Info**

Cluj-Napoca, ROU

N 46° 47.1' E 23° 41.2' Mag Var: 3.6°E

Elevation: 1035'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: 100LL, Jet A-1

Time Zone Info: GMT+2:00 uses DST

Runway Info

Runway 08-26 6890' x 98' concrete

Runway 08 (75.0°M) TDZE 1034'

Lights: Edge, ALS, Centerline

Displaced Threshold Distance 541'

Runway 26 (255.0°M) TDZE 1023'

Lights: Edge, ALS, Centerline

Displaced Threshold Distance 279'

Communications InfoATIS **125.525**Cluj Tower **134.4**Cluj Precision Approach Control **118.7**Cluj Approach Control **125.1****Notebook Info**

LRCL/CLJ
CLUJ NAPOCA

22 MAY 09

10-2

Eff 4 Jun

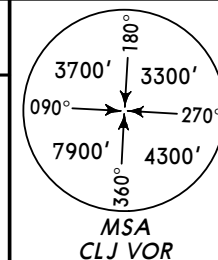
JEPPESEN CLUJ-NAPOCA, ROMANIA

STAR

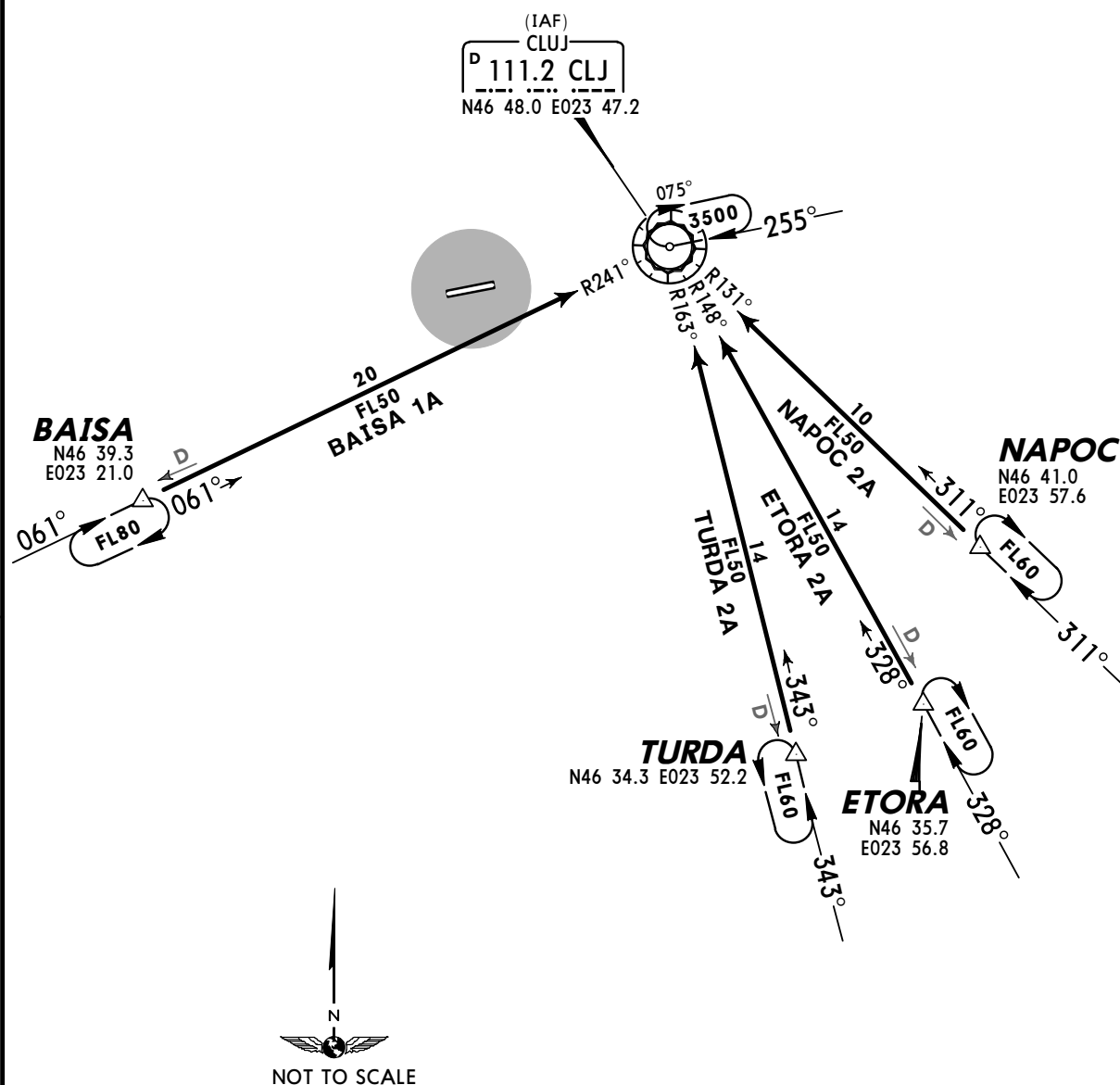
ATIS
125.52

Apt Elev
1035'

Alt Set: hPa (MM on req)
Trans level: By ATC Trans alt: 4000'



BAISA 1A [BAIS1A]
ETORA 2A [ETOR2A]
NAPOC 2A [NAPO2A]
TURDA 2A [TURD2A]
RWY 26 ARRIVALS
FROM SOUTH & SOUTHWEST



These routings also apply in case of communication failure for en-route clearance limit points: BAISA, ETORA, NAPOC, TURDA.

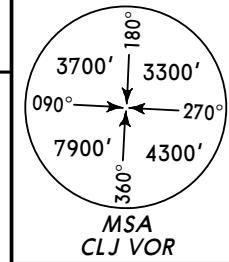
LRCL/CLJ
CLUJ NAPOCA

JEPPESSEN **CLUJ-NAPOCA, ROMANIA**
22 MAY 09 **(10-2A)** **Eff 4 Jun** **STAR**

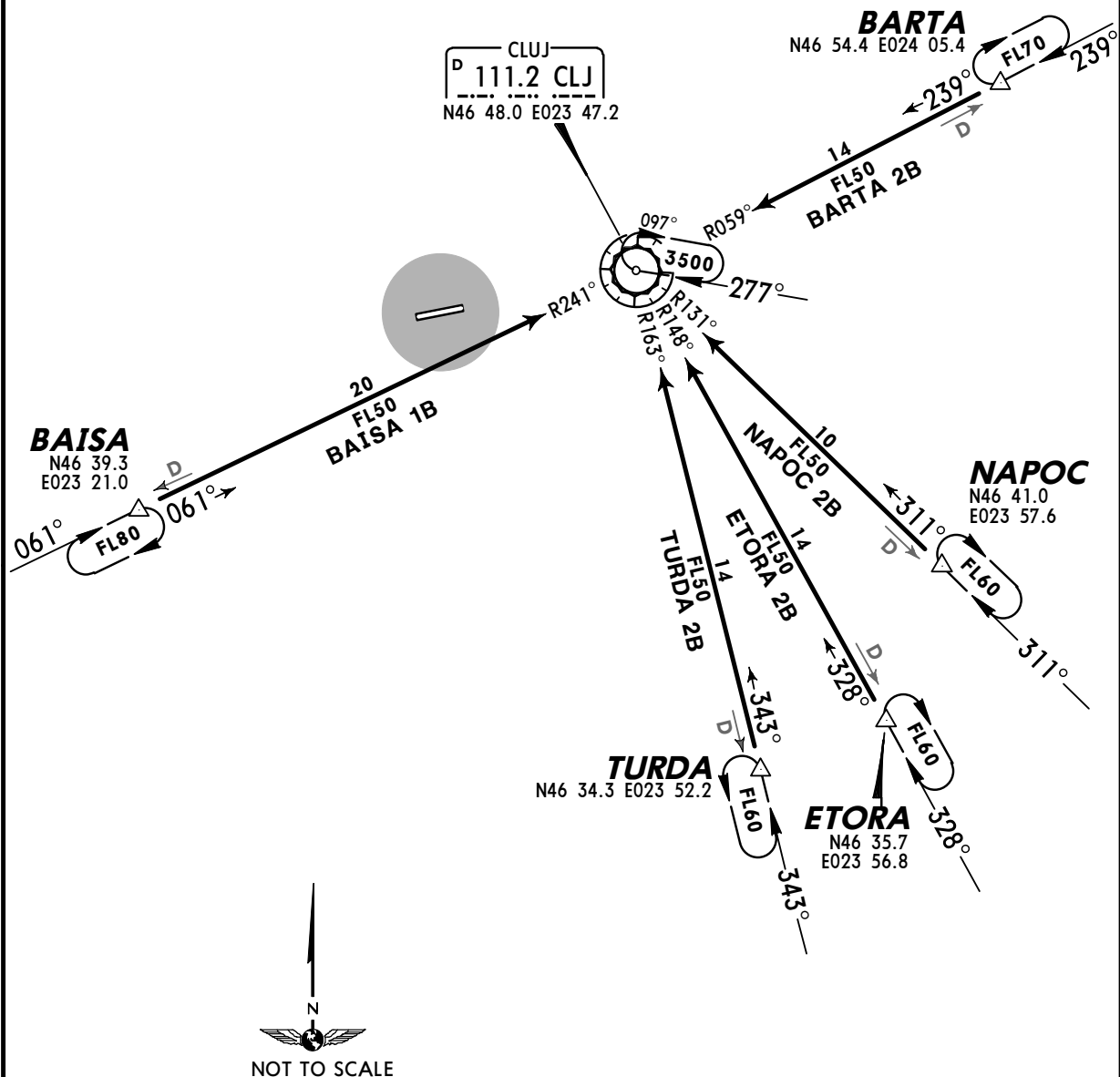
ATIS
125.52

Apt Elev
1035'

Alt Set: hPa (MM on req)
Trans level: By ATC Trans alt: 4000'



BAISA 1B [BAIS1B]
BARTA 2B [BART2B]
ETORA 2B [ETOR2B]
NAPOC 2B [NAPO2B]
TURDA 2B [TURD2B]
RWY 08 ARRIVALS
FROM EAST, SOUTH & SOUTHWEST



LOST COMMS
These routings also apply in case of communication failure for en-route clearance limit points:
BAISA, BARTA, ETORA, NAPOC, TURDA.

LRCL/CLJ
CLUJ NAPOCA

22 MAY 09

10-2B

Eff 4 Jun

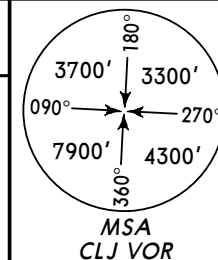
JEPPESEN CLUJ-NAPOCA, ROMANIA

STAR

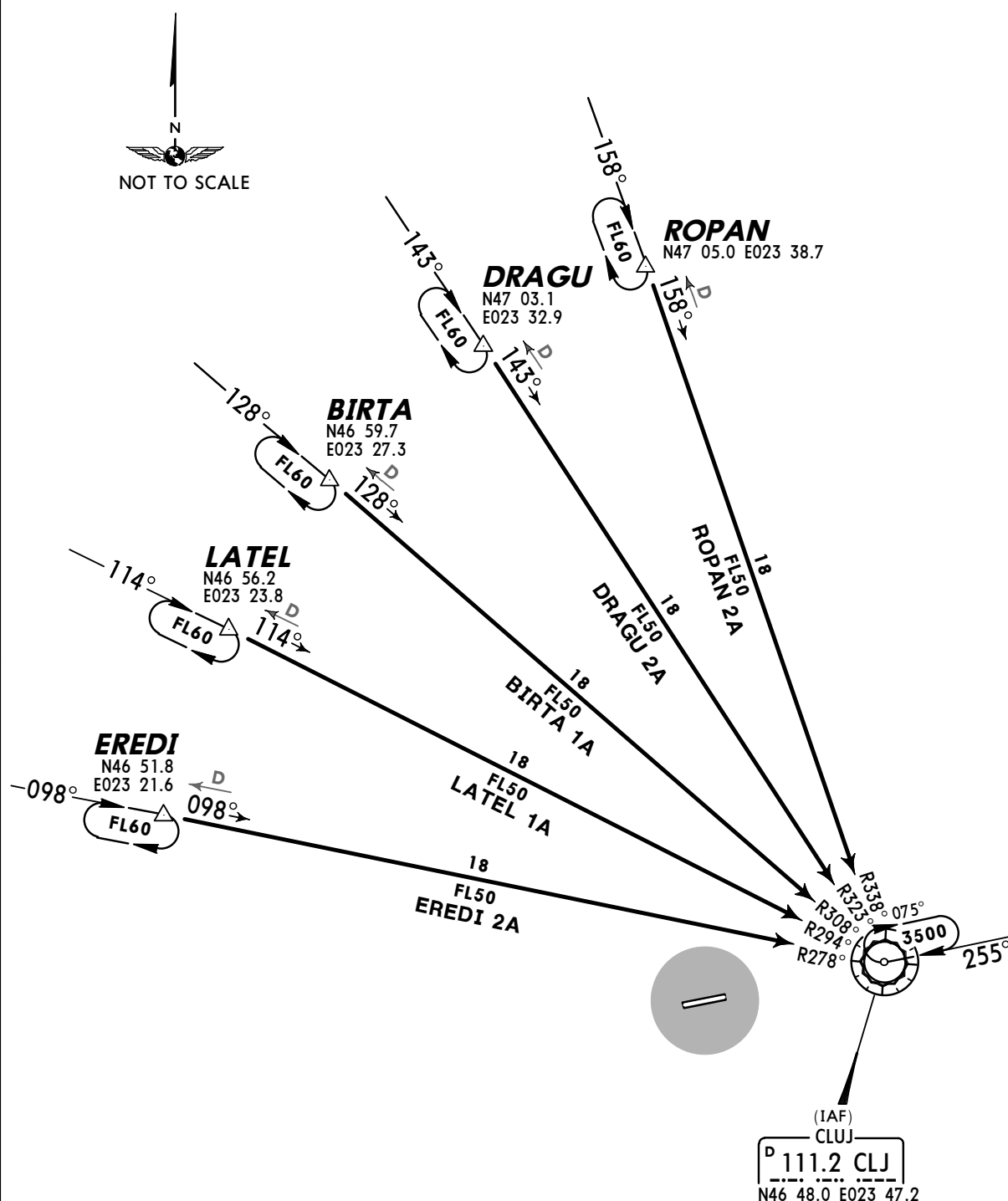
ATIS
125.52

Apt Elev
1035'

Alt Set: hPa (MM on req)
Trans level: By ATC Trans alt: 4000'



BIRTA 1A [*BIRT1A*]
 DRAGU 2A [*DRAG2A*]
 EREDI 2A [*ERED2A*]
 LATEL 1A [*LATE1A*]
 ROPAN 2A [*ROPA2A*]
 RWY 26 ARRIVALS
 FROM NORTHWEST



These routings also apply in case of communication failure for en-route clearance limit points: BIRTA, DRAGU, EREDI, LATEL, ROPAN.

CHANGES: ATIS commissioned.

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LRCL/CLJ
CLUJ NAPOCA

22 MAY 09

10-2C

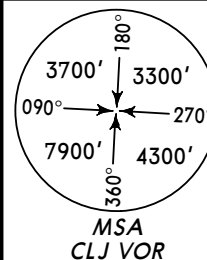
Eff 4 Jun

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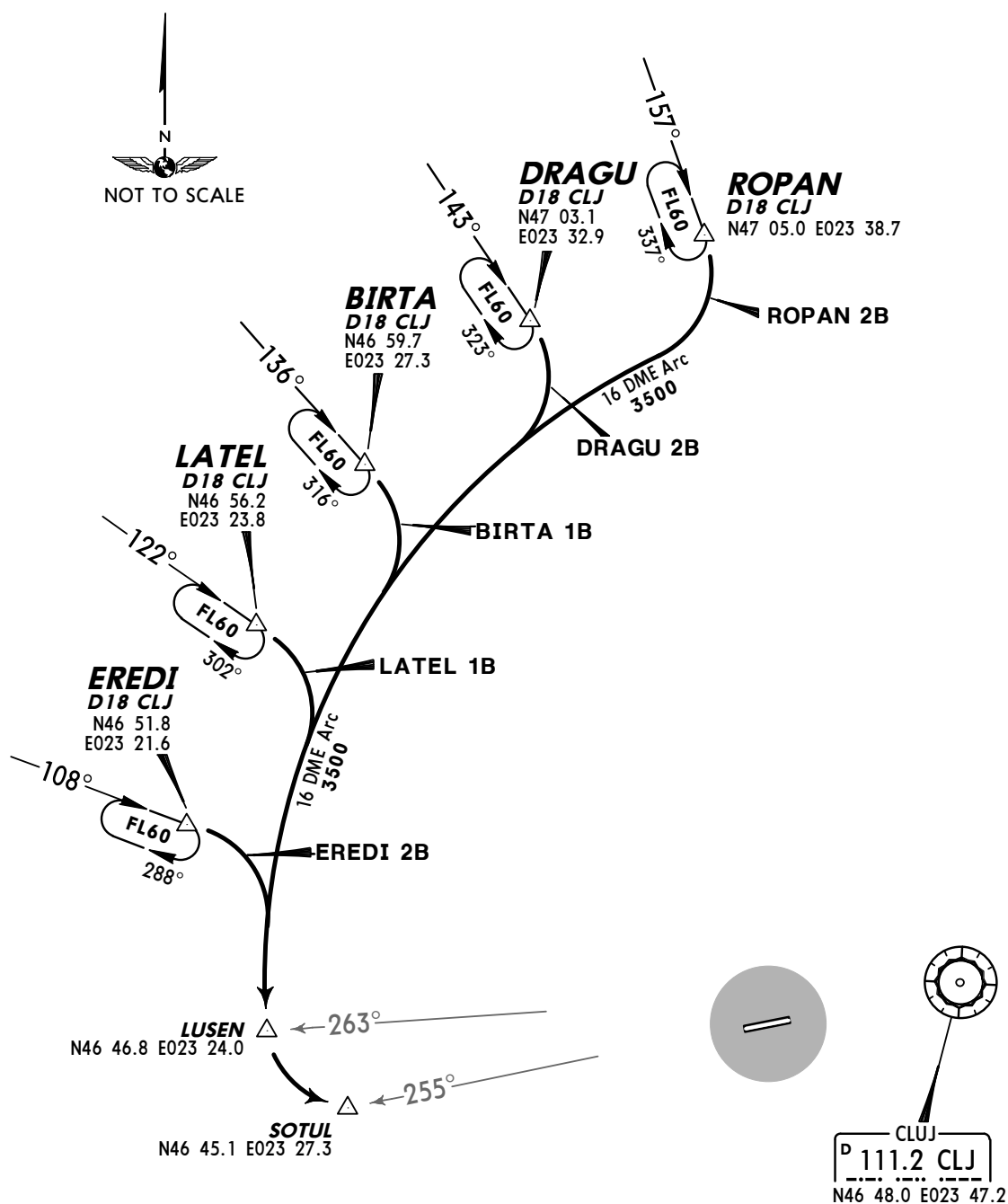
ATIS
125.52

Apt Elev
1035'

Alt Set: hPa (MM on req)
Trans level: By ATC Trans alt: 4000'



BIRTA 1B [BIRT1B]
DRAGU 2B [DRAG2B]
EREDI 2B [ERED2B]
LATEL 1B [LATE1B]
ROPAN 2B [ROPA2B]
RWY 08 ARRIVALS
FROM NORTHWEST



LOST COMMS
These routings also apply in case of communication failure for en-route clearance limit points:
BIRTA, DRAGU, EREDI, LATEL, ROPAN.

CHANGES: ATIS commissioned.

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LRCL/CLJ CLUJ NAPOCA

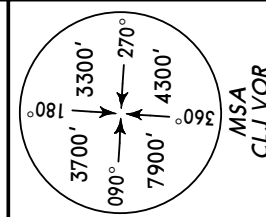
JEPPESSEN
 21 DEC 07 **10-3**

CLUJ-NAPOCA, ROMANIA
SID

Apt Elev
 1035'

Trans level: By ATC Trans alt: 4000'
 SIDs are also noise abatement routings. Strict adherence within the limit of performance criteria is mandatory.

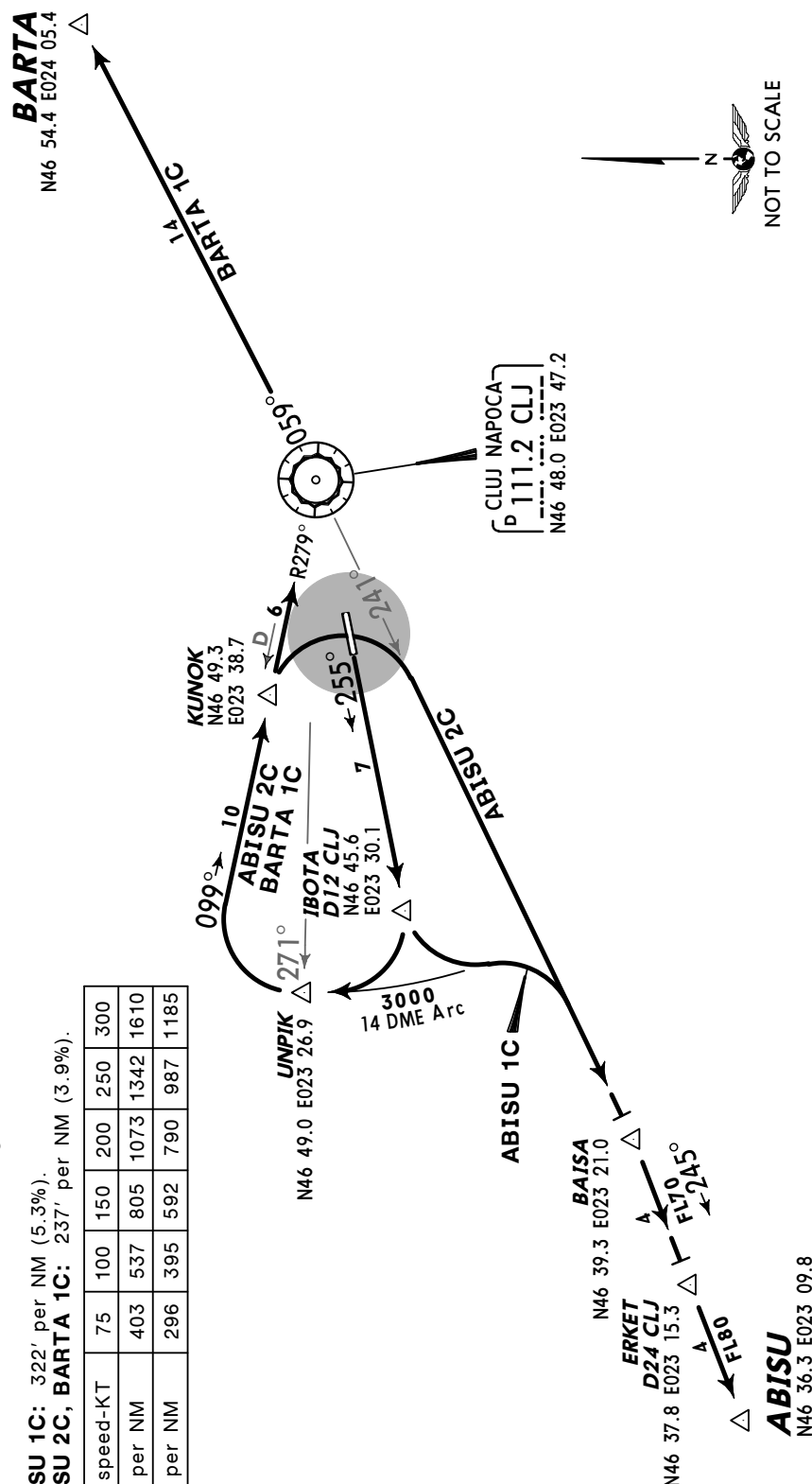
ABISU 1C [ABIS1C], ABISU 2C [ABIS2C] BARTA 1C [BART1C] RWY 26 DEPARTURES **SPEEDS MAX 250 KT BELOW FL100**



SID	ROUTING
ABISU 1C	Climb on runway track to IBOTA, turn LEFT, intercept CLJ R-241 to BAISA, 245° track to ABISU.
ABISU 2C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UNPIK, turn RIGHT, intercept CLJ R-279 inbound to KUNOK, turn RIGHT, intercept CLJ R-241 to BAISA, 245° track to ABISU.
BARTA 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UNPIK, turn RIGHT, intercept CLJ R-279 inbound to CLJ, CLJ R-059 to BARTA.

These SIDs require minimum climb gradients of
ABISU 1C: 322' per NM (5.3%).
ABISU 2C, BARTA 1C: 237' per NM (3.9%).

Gnd speed-KT	75	100	150	200	250	300
322' per NM	403	537	805	1073	1342	1610
237' per NM	296	395	592	790	987	1185

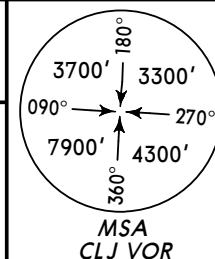


LRCL/CLJ
CLUJ NAPOCA

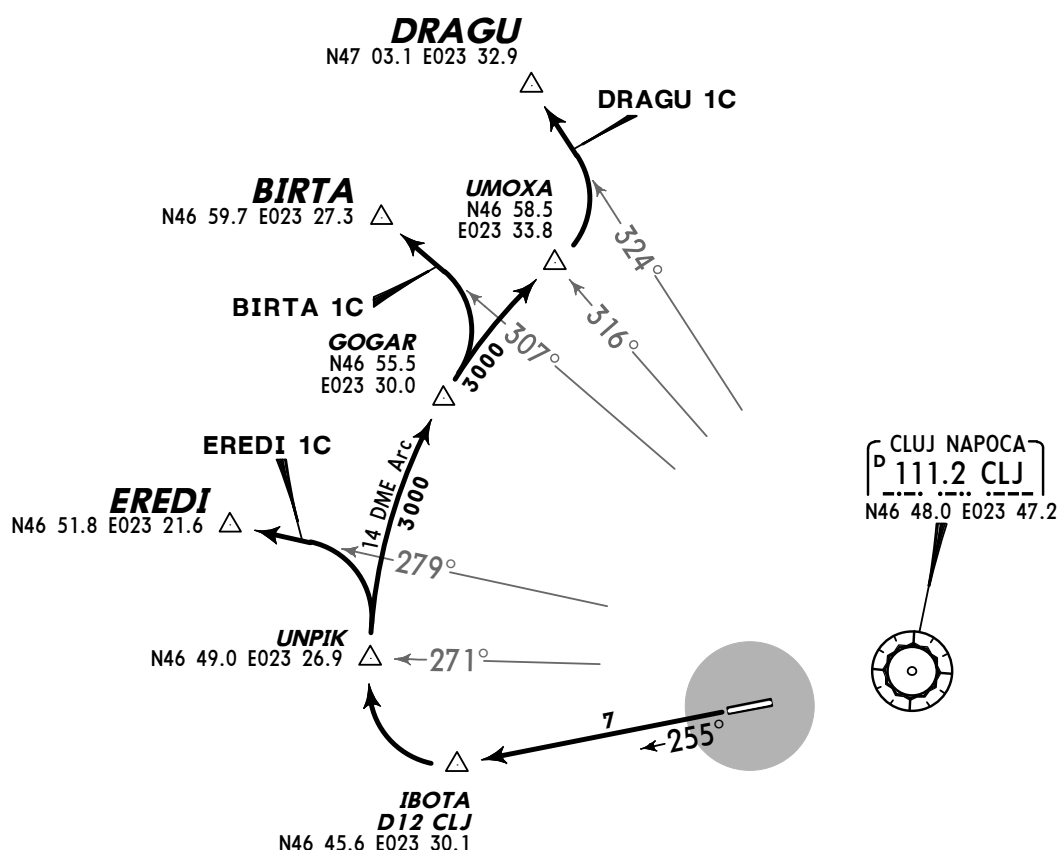
JEPPESEN CLUJ-NAPOCA, ROMANIA
 21 DEC 07 **(10-3A)** **SID**

Apt Elev
1035'

Trans level: By ATC Trans alt: 4000'
 SIDs are also noise abatement routings. Strict adherence
 within the limit of performance criteria is mandatory.



BIRTA 1C [BIRT1C], DRAGU 1C [DRAG1C]
EREDI 1C [ERED1C]
RWY 26 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100



These SIDs require a minimum climb gradient
 of
 237' per NM (3.9%).

Gnd speed-KT	75	100	150	200	250	300
237' per NM	296	395	592	790	987	1185



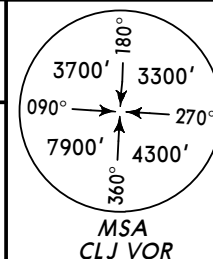
SID	ROUTING
BIRTA 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to GOGAR, turn LEFT, intercept CLJ R-307 to BIRTA.
DRAGU 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UMOXA, turn LEFT, intercept CLJ R-324 to DRAGU.
EREDI 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UNPIK, turn LEFT, intercept CLJ R-279 to EREDI.

LRCL/CLJ
CLUJ NAPOCA

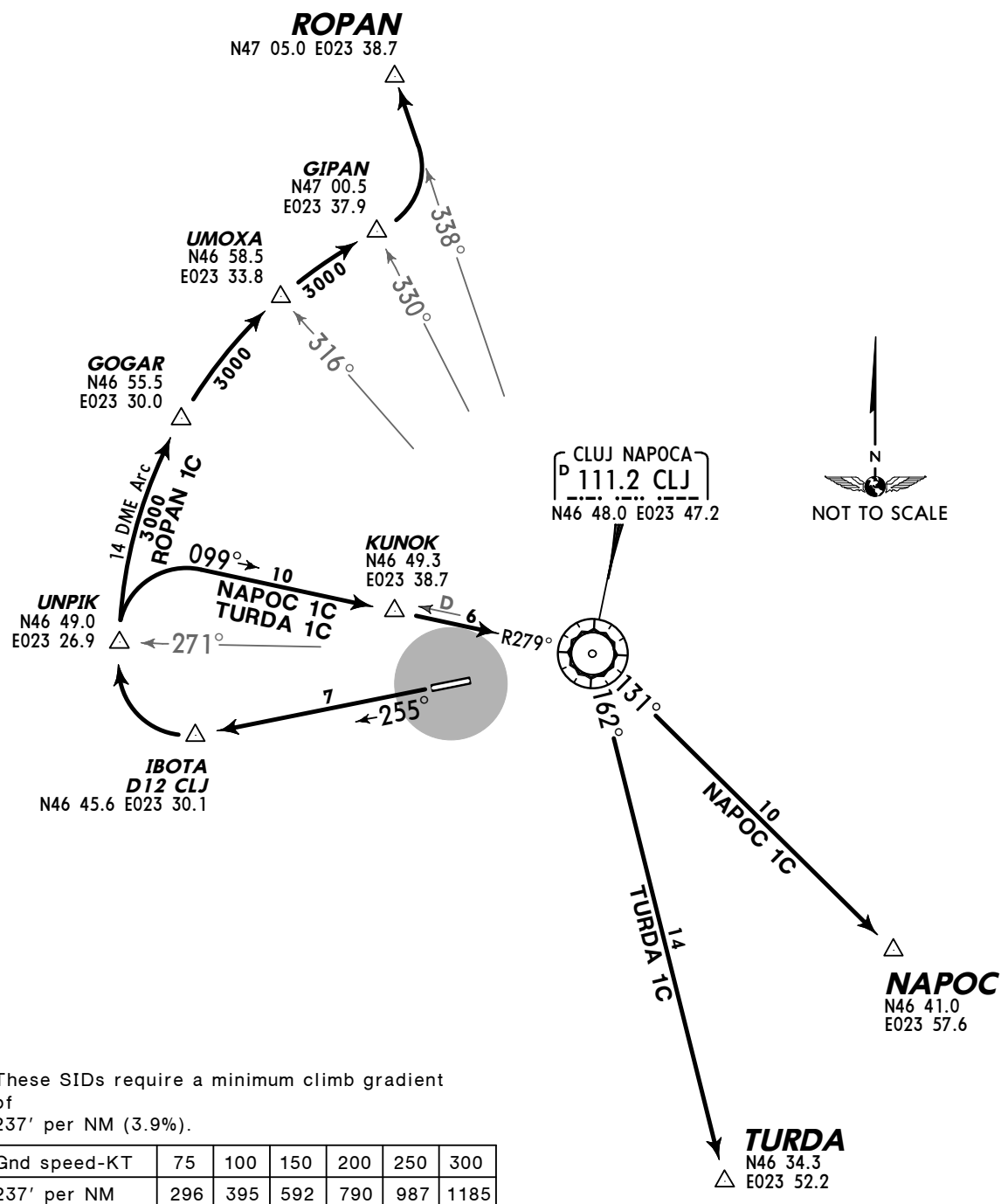
JEPPESSEN CLUJ-NAPOCA, ROMANIA
 21 DEC 07 **(10-3B)** **SID**

Apt Elev
1035'

Trans level: By ATC Trans alt: 4000'
 SIDs are also noise abatement routings. Strict adherence
 within the limit of performance criteria is mandatory.



NAPOC 1C [NAPO1C], ROPAN 1C [ROPA1C]
TURDA 1C [TURD1C]
RWY 26 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100

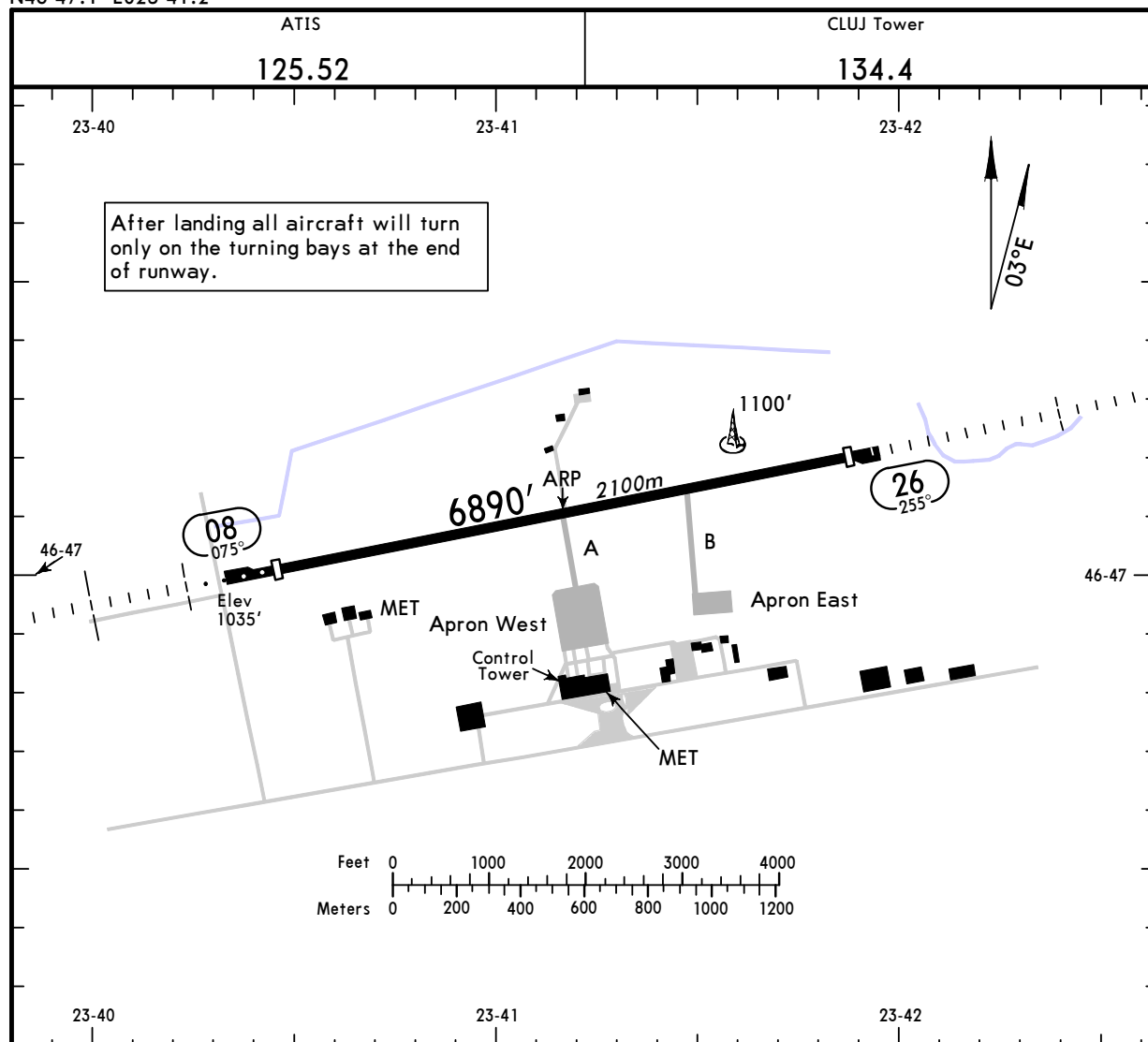


SID	ROUTING
NAPOC 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UNPIK, turn RIGHT, intercept CLJ R-279 inbound to CLJ, turn RIGHT, CLJ R-131 to NAPOC.
ROPAN 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to GIPAN, turn LEFT, intercept CLJ R-338 to ROPAN.
TURDA 1C	Climb on runway track to IBOTA, turn RIGHT, along CLJ 14 DME arc to UNPIK, turn RIGHT, intercept CLJ R-279 inbound to CLJ, turn RIGHT, CLJ R-162 to TURDA.

LRCL/CLJ
Apt Elev **1035'**
N46 47.1 E023 41.2

JEPPESSEN
5 FEB 10 **(10-9)**

CLUJ-NAPOCA, ROMANIA
CLUJ-NAPOCA



ADDITIONAL RUNWAY INFORMATION

		ADDITIONAL RUNWAY INFORMATION		USABLE LENGTHS		TAKE-OFF	WIDTH
				LANDING BEYOND			
RWY				Threshold	Glide Slope		
08	HIRL (60m) CL (60m) ALS PAPI-L(3.0°)	6070' 1850m				6611' 2015m	98'
26	HIRL (60m) CL (60m) HIALS PAPI-L(3.2°)				5098' 1554m	6348' 1935m	30m

NOISE ABATEMENT PROCEDURES

The auxiliary power unit is permitted functioning max 15 minutes after block on time and may be started with max 30 minutes before scheduled time of departure.

Standard

TAKE-OFF 1

	All Rwys				
	LVP must be in force				
	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A					
B	150m	200m	250m	400m	500m
C					
D	200m	250m	300m		

1 Operators applying U.S. Ops Specs: CL required below 300m.

LRCL/CLJ **JEPPESEN****JAA MINIMUMS**20 NOV 09 **(10-9X)****CLUJ-NAPOCA, ROMANIA****CLUJ-NAPOCA**

STRAIGHT-IN RWY		A	B	C	D
08	PAR	1234' (200')	1234' (200')	1234' (200')	1234' (200')
		R800m R1000m	R800m R1000m	R800m R1000m	R800m R1000m
	<i>ALS out</i>				
26	ILS DME	1223' (200')	1223' (200')	1223' (200')	1223' (200')
		R550m R1000m	R550m R1000m	R550m R1000m	R550m R1000m
	<i>ALS out</i>				
	LOC	1500' (477')	1500' (477')	1500' (477')	1500' (477')
		R1000m R1500m	R1200m R1500m	R1200m R2000m	R1600m R2000m
	<i>ALS out</i>				
	PAR	1223' (200')	1223' (200')	1223' (200')	1223' (200')
		R550m R1000m	R550m R1000m	R550m R1000m	R550m R1000m
	<i>ALS out</i>				

CIRCLE-TO-LAND ①	100 KT	135 KT	180 KT	205 KT
VOR DME Rwy 08 or after PAR 08 or after ILS DME/LOC/PAR 26	2000' (965')	2000' (965')	2250' (1215')	2540' (1505')
	V1500m	V1600m	V2400m	V3600m
VOR DME Rwy 26	2000' (977')	2000' (977')	2250' (1227')	2540' (1517')
	V1500m	V1600m	V2400m	V3600m

① Not authorized South of airport.

TAKE-OFF RWY 08, 26

LVP must be in force				
	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A				
B	200m	250m	400m	500m
C				
D	250m	300m		

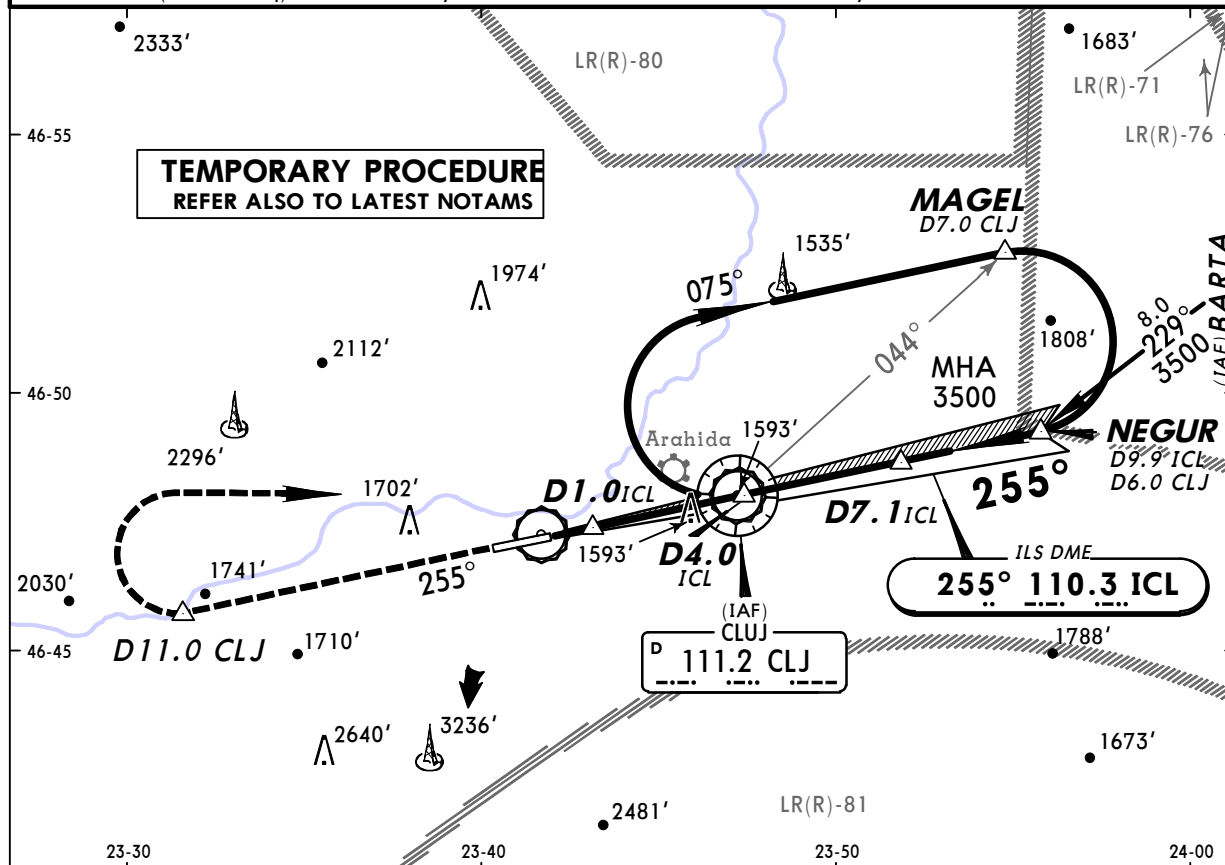
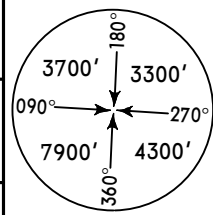
LRCL/CLJ
CLUJ-NAPOCA

20 NOV 09 **(11-01)**

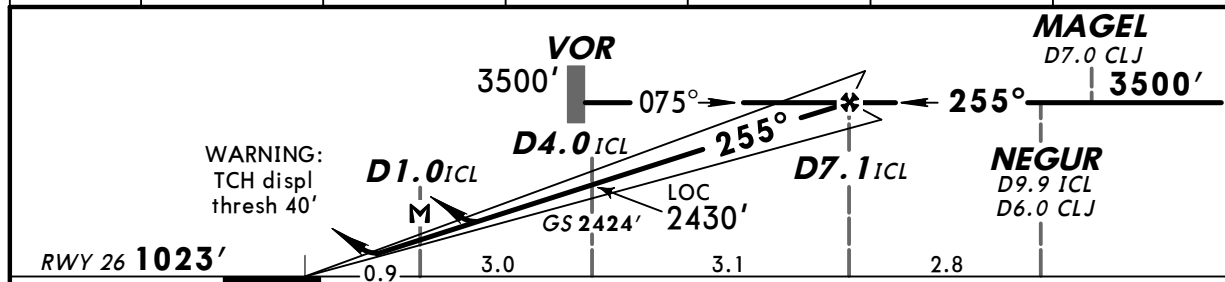
CLUJ-NAPOCA, ROMANIA
ILS DME Rwy 26

BRIEFING STRIP

ATIS 125.52		CLUJ Approach (R) 125.1		CLUJ Tower 134.4
LOC ICL 110.3	Final Apch Crs 255°	GS D4.0 ICL 2424' (1401')	ILS DA(H) 1223' (200')	Apt Elev 1035' RWY 1023'
MISSED APCH: Climb STRAIGHT AHEAD to 3500' or D11.0 CLJ, whichever is later, then turn RIGHT to VOR and join holding, or as directed.				
Alt Set: hPa (MM on req) Rwy Elev: 37 hPa Trans level: By ATC Trans alt: 4000'				



LOC (GS out)	ICL DME	2.0	3.0	4.0	5.0	6.0
	ALTITUDE	1730'	2080'	2430'	2780'	3130'



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI 3500' D11.0 whichever later
ILS GS or LOC Descent Angle 3.30°	414	532	591	710	828	946	
MAP at D1.0 ICL							

STRAIGHT-IN LANDING RWY 26				CIRCLE-TO-LAND	
ILS DA(H) 1223' (200')		LOC (GS out) DA(H) 1500' (477')		Not authorized South of airport	
FULL	Limited	ALS out	ALS out	Max Kts	MDA(H) VIS
A	RVR 550m	RVR 750m	RVR 1200m	RVR 1500m	100 2000' (965') 1500m
					135 2000' (965') 1600m
					180 2250' (1215') 2400m
					205 2540' (1505') 3600m

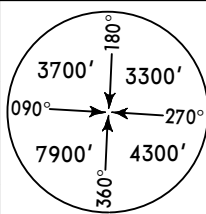
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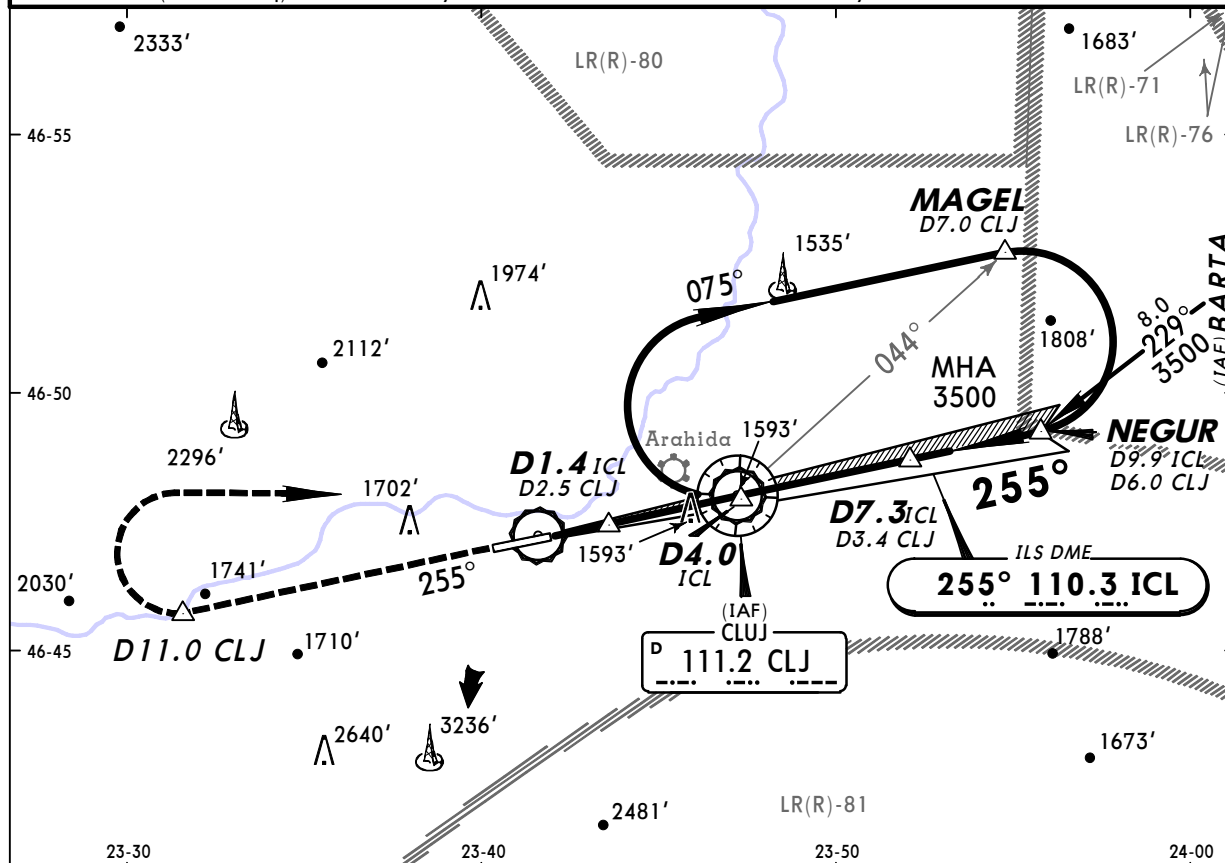
LRCL/CLJ
CLUJ-NAPOCA

JEPPESSEN
5 FEB 10 **(11-1)**

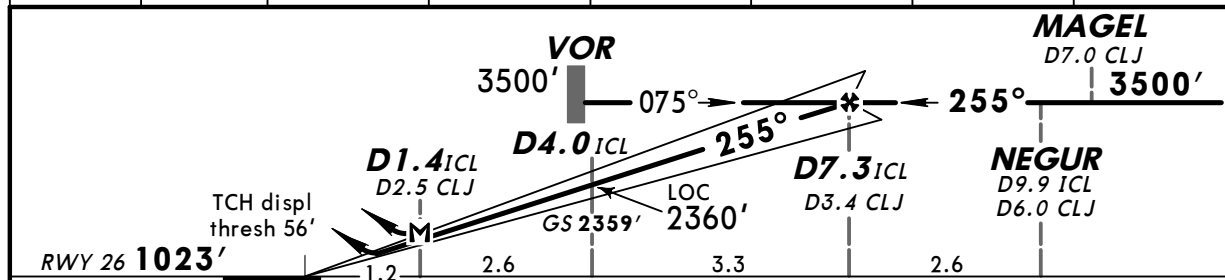
CLUJ-NAPOCA, ROMANIA
ILS DME Rwy 26

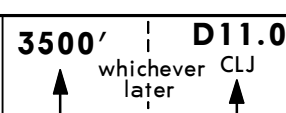
BRIEFING STRIP

ATIS 125.52		CLUJ Approach (R) 125.1		CLUJ Tower 134.4		
LOC ICL 110.3	Final Apch Crs 255°	GS D4.0 ICL 2359' (1336')	ILS DA(H) 1223' (200')	Apt Elev 1035' RWY 1023'		
MISSED APCH: Climb STRAIGHT AHEAD to 3500' or D11.0 CLJ, whichever is later, then turn RIGHT to VOR and join holding, or as directed.						
Alt Set: hPa (MM on req)		Rwy Elev: 37 hPa		Trans level: By ATC		Trans alt: 4000'



LOC (GS out)	ICL DME ALTITUDE	2.0	3.0	4.0	5.0	6.0	7.0
		1710'	2040'	2380'	2720'	3060'	3410'



Gnd speed-Kts	70	90	100	120	140	160	
ILS GS or LOC Descent Angle 3.20°	401	516	574	688	803	918	
MAP at D1.4 ICL/D2.5 CLJ							

STRAIGHT-IN LANDING RWY 26				CIRCLE-TO-LAND	
ILS			LOC (GS out)	Not authorized South of airport	
DA(H) 1223' (200')			DA(H) 1500' (477')		
FULL	Limited	ALS out	ALS out	Max Kts	MDA(H) VIS
RVR 550m	RVR 750m	RVR 1200m	RVR 1500m	100	2000' (965') 1500m
				135	2000' (965') 1600m
				180	2250' (1215') 2400m
				205	2540' (1505') 3600m

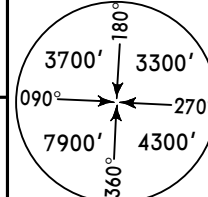
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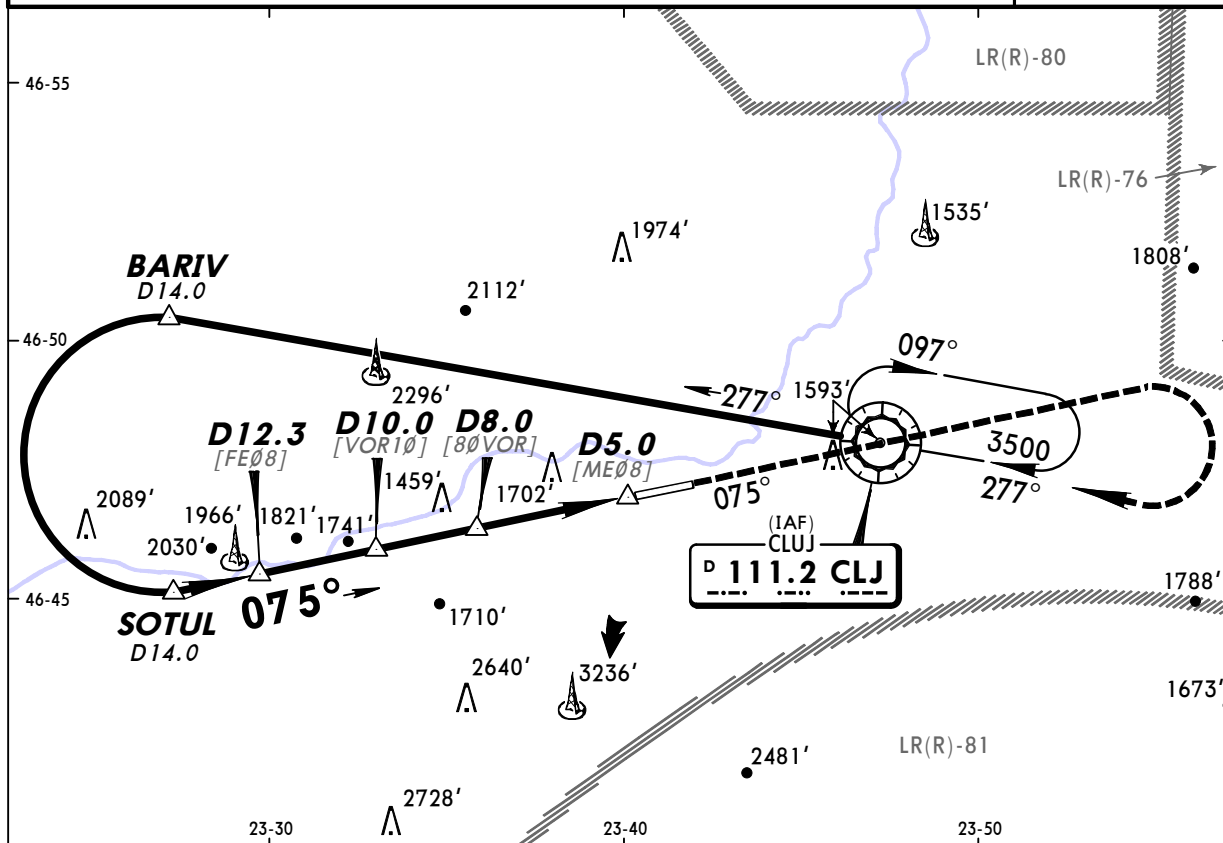
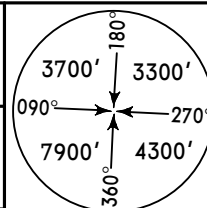
LRCL/CLJ
CLUJ-NAPOCA

20 NOV 09 **(13-1)**

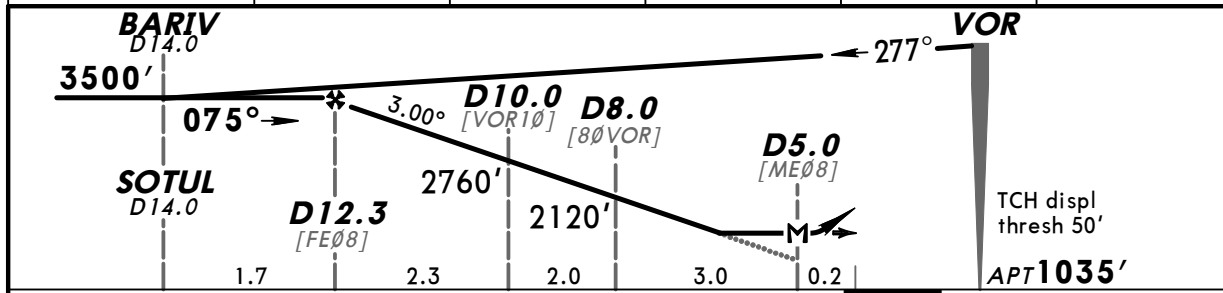
CLUJ-NAPOCA, ROMANIA
CIRCLING VOR DME Rwy 08

BRIEFING STRIP

ATIS		CLUJ Approach (R)			CLUJ Tower
125.52		125.1			134.4
VOR CLJ 111.2	Final Apch Crs 075°	Minimum Alt D12.3 3500'(2465')	MDA(H) Refer to Minimums	Apt Elev 1035'	
MISSED APCH: Climb STRAIGHT AHEAD to 3500', then turn RIGHT to VOR and join holding, or as directed.					
Alt Set: hPa (MM on req)		Apt Elev: 37 hPa	Trans level: By ATC	Trans alt: 4000'	
MSA CLJ VOR					



CLJ DME	11.0	10.0	9.0	8.0	7.0
ALTITUDE	3080'	2760'	2440'	2120'	1800'



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI 3500'	
Descent angle 3.00°	372	478	531	637	743	849		
MAP at D5.0								

Standard		CIRCLE-TO-LAND		
		Not authorized South of airport		
		Max Kts	MDA(H)	VIS
	A	100	2000' (965')	1500m
	B	135	2000' (965')	1600m
	C	180	2250' (1215')	2400m
	D	205	2540' (1505')	3600m

PANS OPS 4

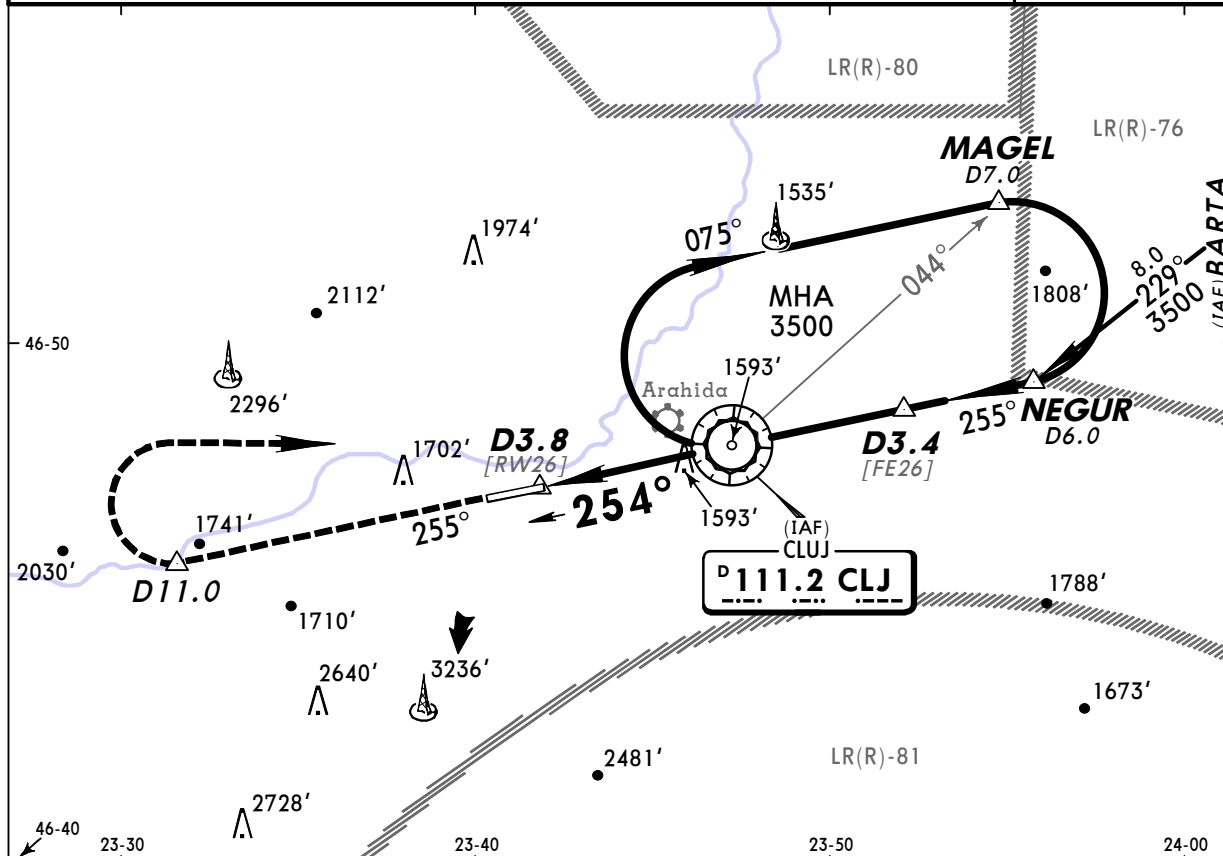
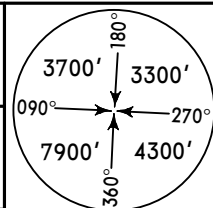
LRCL/CLJ
CLUJ-NAPOCA

20 NOV 09 **(13-2)**

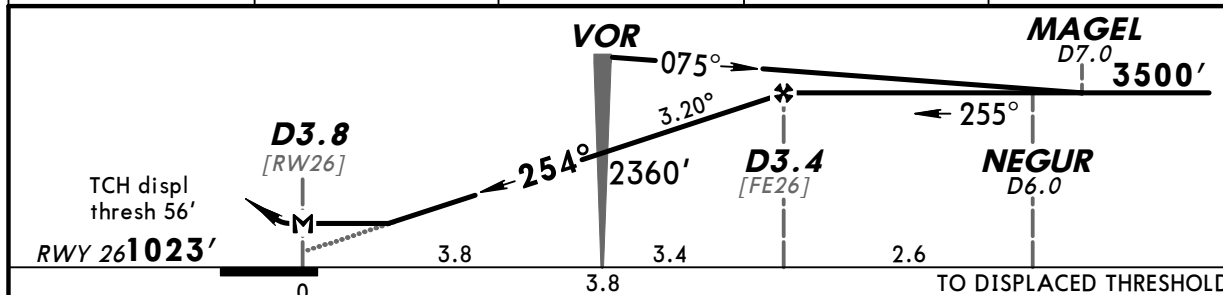
CLUJ-NAPOCA, ROMANIA
CIRCLING VOR DME Rwy 26

BRIEFING STRIP

ATIS		CLUJ Approach (R)			CLUJ Tower
125.52		125.1			134.4
VOR CLJ 111.2	Final Apch Crs 254°	Minimum Alt D3.4 3500' (2477')	MDA(H) Refer to Minimums	Apt Elev 1035'	RWY 1023'
MISSED APCH: Climb STRAIGHT AHEAD to 3500' or D11.0, whichever is later, then turn RIGHT to VOR and join holding, or as directed.					
Alt Set: hPa (MM on req)		Rwy Elev: 37 hPa	Trans level: By ATC	Trans alt: 4000'	MSA CLJ VOR



	2.0 after CLJ	1.0 after CLJ	1.0 before CLJ	2.0 before CLJ
CLJ DME				
ALTITUDE	1680'	2020'	2700'	3040'



Gnd speed-Kts	70	90	100	120	140	160	HIALS		3500'	whichever later	D11.0
Descent angle 3.20°	396	510	566	679	793	906	PAPI				
MAP at D3.8											

Standard		CIRCLE-TO-LAND 1		
		Not authorized South of airport		
	Max Kts	MDA(H)	VIS	
A	100	2000'(977')	1500m	
B	135	2000'(977')	1600m	
C	180	2250'(1227')	2400m	
D	205	2540'(1517')	3600m	

1 Circling heights based on rwy 26 displaced threshold elevation of 1023'.

CHANGES: Minimums.

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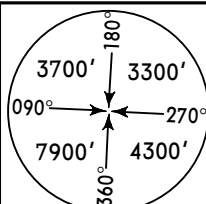
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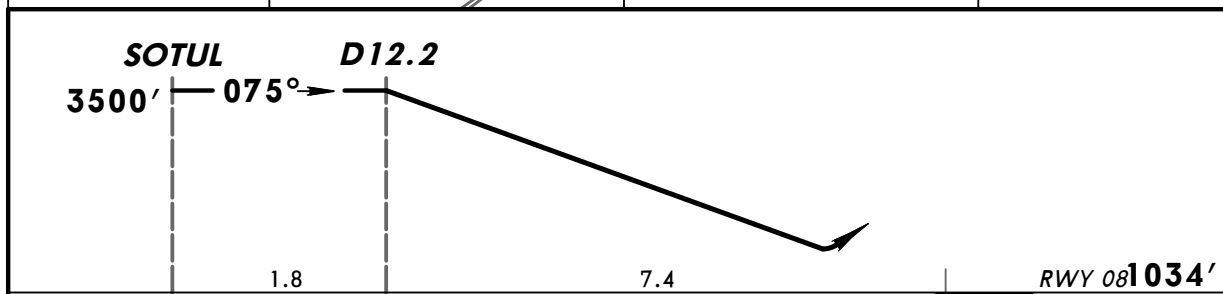
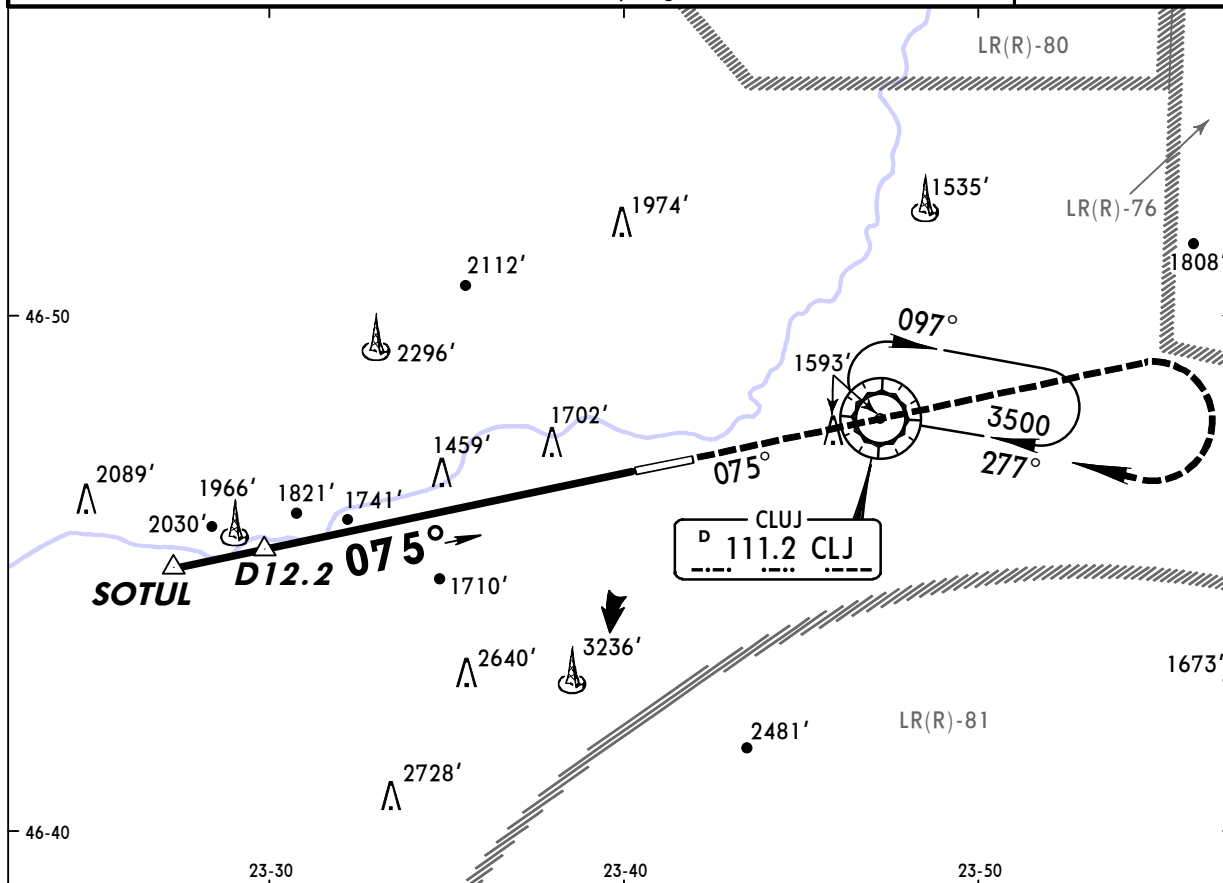
LRCL/CLJ
CLUJ-NAPOCA

JEPPESEN
20 NOV 09 **(18-1)**

CLUJ-NAPOCA, ROMANIA
PAR Rwy 08

BRIEFING STRIP

ATIS 125.52		CLUJ Approach (R) 125.1		CLUJ Precision (APP/PAR) 118.7		CLUJ Tower 134.4	
<i>RADAR</i>	<i>Final Apch Crs</i> 075°	<i>PAR GS D12.2</i> 3500' (2466')	<i>PAR DA(H)</i> 1234' (200')	<i>Apt Elev 1035'</i> <i>RWY 1034'</i>			
MISSED APCH: Climb STRAIGHT AHEAD to 3500', then turn RIGHT to VOR and join holding, or as directed.							
Alt Set: hPa (MM on req) Rwy Elev: 37 hPa Trans level: By ATC Trans alt: 4000'						<i>MSA CLJ VOR</i>	
WARNING: Do not descent below 3500' before intercepting R-255 inbound VOR.							



Gnd speed-Kts	70	90	100	120	140	160	ALS 3500' ↑
PAR GS	3.00°	377	484	538	646	753	

Standard			CIRCLE-TO-LAND		
STRAIGHT-IN LANDING RWY 08			Not authorized South of airport		
DA(H) 1234' (200')					
ALS out					
A	RVR 1000m	RVR 1200m	Max Kts	MDA(H)	VIS
B			100	2000' (965')	1500m
C			135	2000' (965')	1600m
D			180	2250' (1215')	2400m
			205	2540' (1505')	3600m

PANS OPS 4

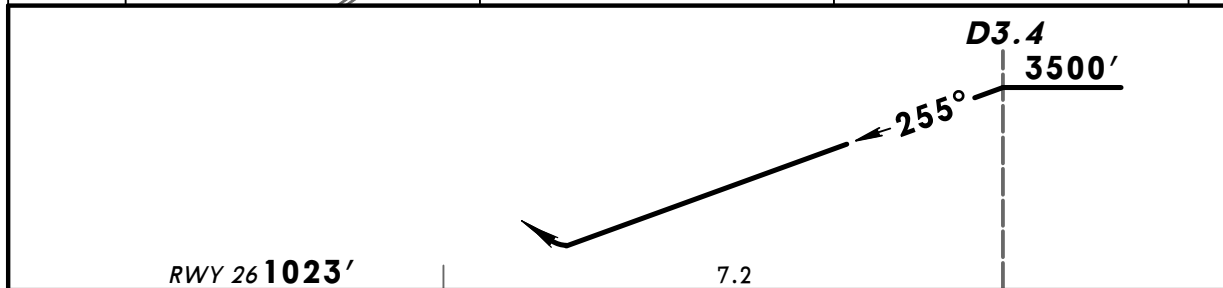
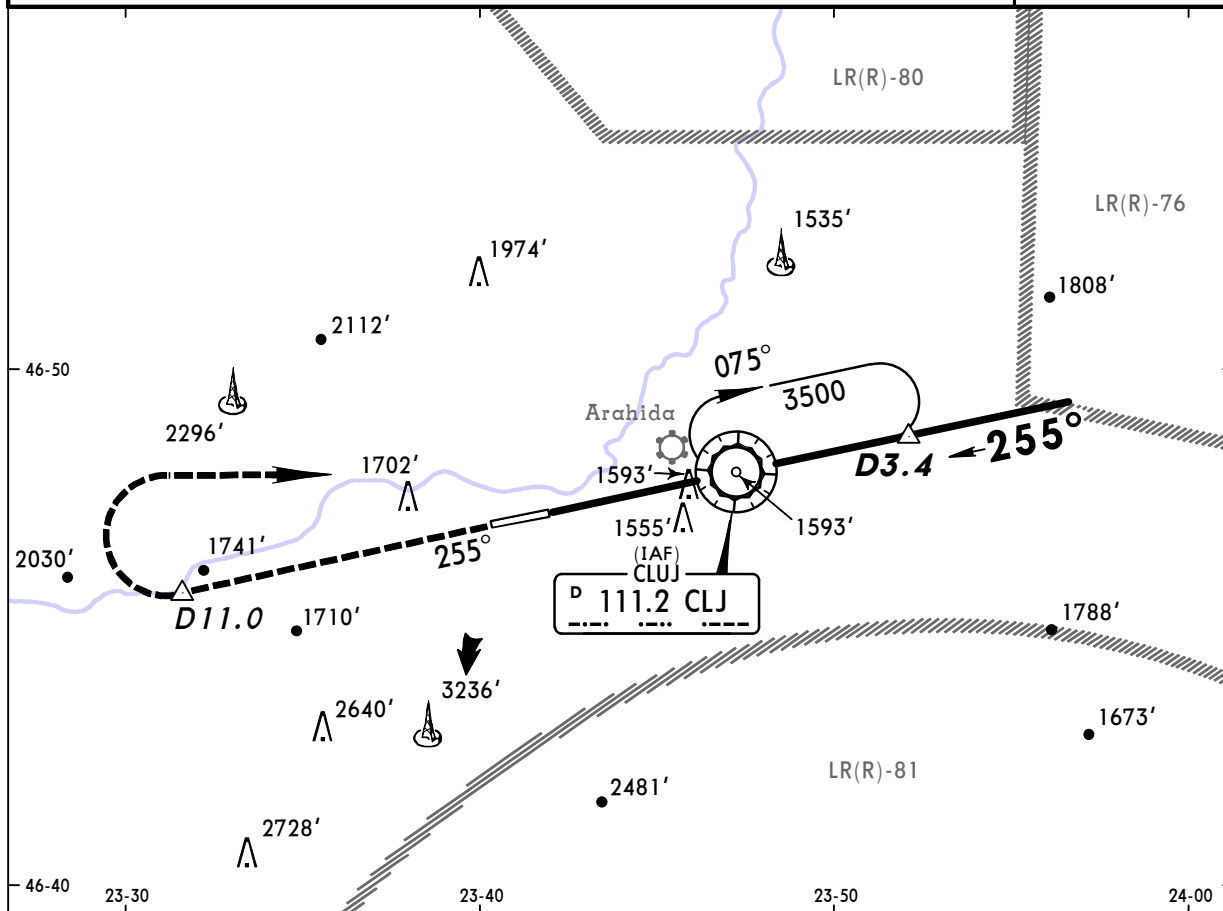
LRCL/CLJ
CLUJ-NAPOCA

JEPPESEN
20 NOV 09 **(18-2)**

CLUJ-NAPOCA, ROMANIA
PAR Rwy 26

BRIEFING STRIP

ATIS 125.52		CLUJ Approach (R) 125.1		CLUJ Precision (APP/PAR) 118.7		CLUJ Tower 134.4	
RADAR	Final Apch Crs 255°	PAR GS D3.4 3500' (2477')	PAR DA(H) 1223' (200')	Apt Elev 1035' RWY 1023'		 MSA CLJ VOR	
MISSED APCH: Climb STRAIGHT AHEAD to 3500' or D11.0, whichever is later, then turn RIGHT to VOR and join holding, or as directed.							
Alt Set: hPa (MM on req)		Rwy Elev: 37 hPa	Trans level: By ATC	Trans alt: 4000'			



Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI	3500' whichever later D11.0
PAR GS 3.20°	401	516	574	688	803	918		

Standard			STRAIGHT-IN LANDING RWY 26			CIRCLE-TO-LAND		
			DA(H) 1223' (200')			Not authorized South of airport		
			ALS out			Max Kts	MDA(H)	VIS
A	RVR 750m		RVR 1200m			100	2000' (965')	1500m
B						135	2000' (965')	1600m
C						180	2250' (1215')	2400m
D						205	2540' (1505')	3600m

PANS OPS 4