

List of pages in this Trip Kit

Trip Kit Index

Airport Information For UMMG

Terminal Charts For UMMG

Revision Letter For Cycle 13-2016

Change Notices

Notebook

General Information

Location: HRODNA BLR
ICAO/IATA: UMMG / GNA
Lat/Long: N53° 36.12', E024° 03.23'
Elevation: 443 ft

Airport Use: Public
Daylight Savings: Not Observed
UTC Conversion: -3:00 = UTC
Magnetic Variation: 7.0° E

Fuel Types: 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: 0153 Z
Sunset: 1857 Z

Runway Information

Runway: 17
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 443 ft
Lighting: Edge, ALS

Runway: 35
Length x Width: 8399 ft x 138 ft
Surface Type: concrete
TDZ-Elev: 430 ft
Lighting: Edge, ALS

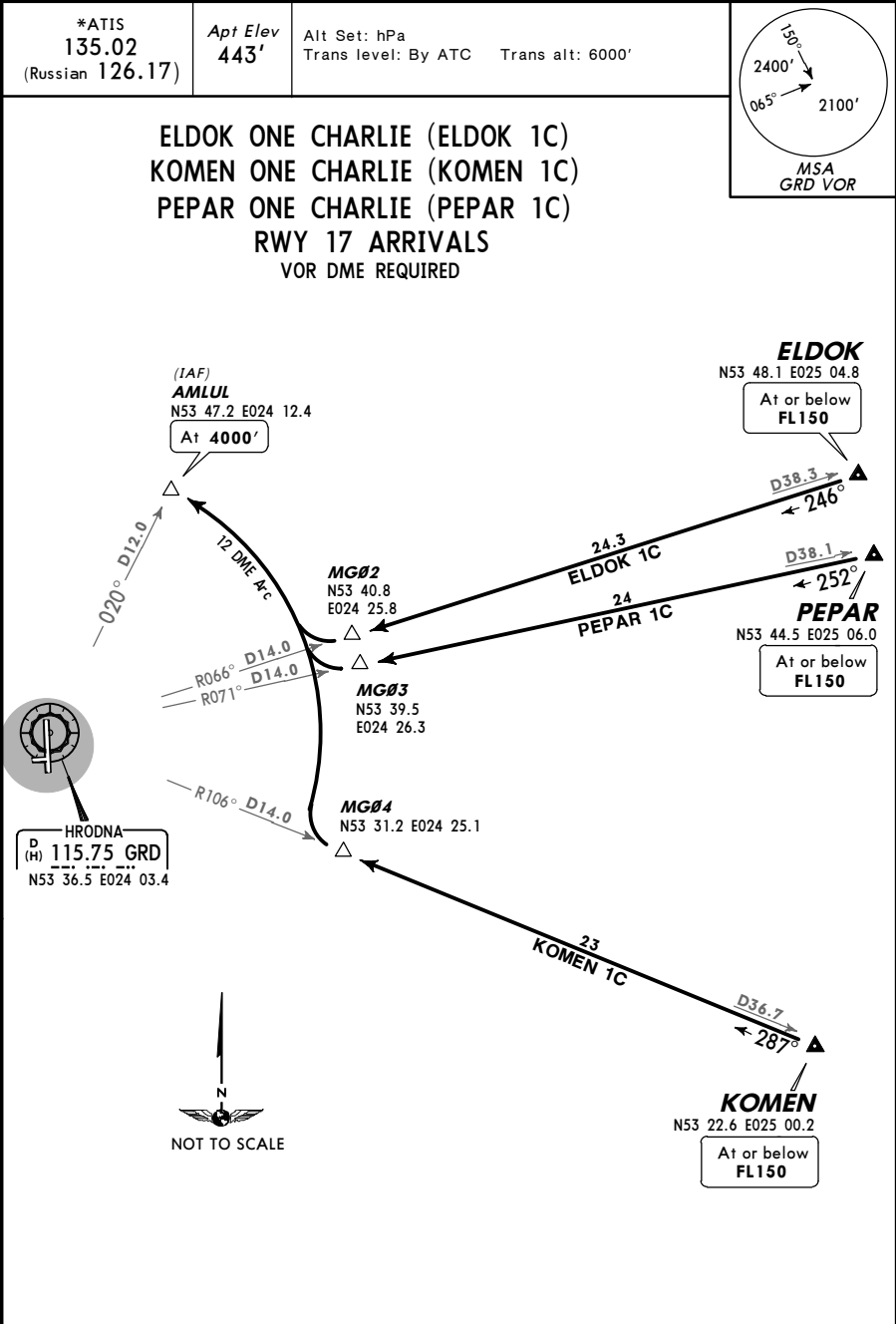
Communication Information

ATIS: 135.025
ATIS: 126.175 Non-English
Hrodna Tower: 134.500

UMMG/GNA
HRODNA

JEPPESSEN
28 JUN 13 10-2

HRODNA, BELARUS
STAR



UMMG/GNA
HRODNA

JEPPESSEN
28 JUN 13 10-2A

HRODNA, BELARUS
STAR

*ATIS
135.02
(Russian 126.17)

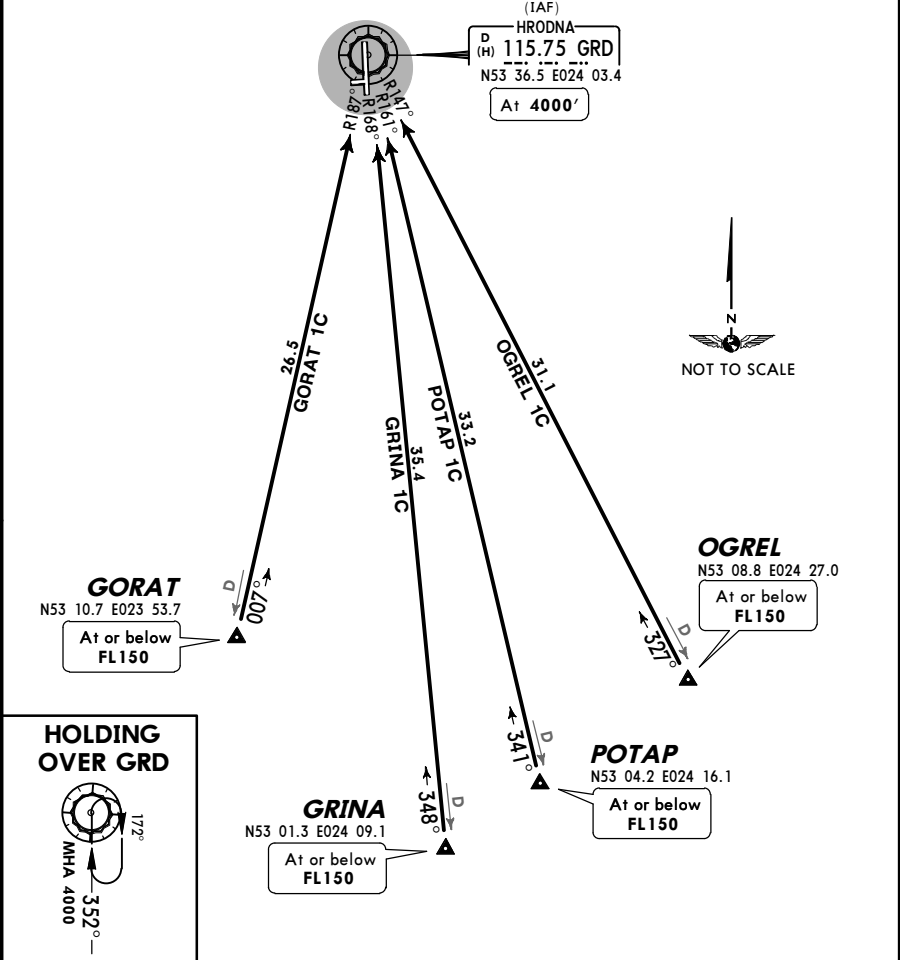
Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'

150°
2400'
065°
2100'

MSA
GRD VOR

GORAT ONE CHARLIE (GORAT 1C)
GRINA ONE CHARLIE (GRINA 1C)
OGREL ONE CHARLIE (OGREL 1C)
POTAP ONE CHARLIE (POTAP 1C)
RWY 17 ARRIVALS
VOR DME REQUIRED



STAR	ROUTING
GORAT 1C	Intercept GRD R-187 inbound to GRD.
GRINA 1C	Intercept GRD R-168 inbound to GRD.
OGREL 1C	Intercept GRD R-147 inbound to GRD.
POTAP 1C	Intercept GRD R-161 inbound to GRD.

UMMG/GNA
HRODNA

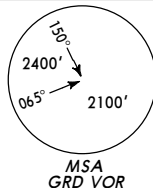
JEPPESSEN
28 JUN 13 **(10-2B)**

HRODNA, BELARUS
STAR

*ATIS
135.02
(Russian 126.17)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ENOBI ONE CHARLIE (ENOBI 1C)
SOTET ONE CHARLIE (SOTET 1C)
TUMKI ONE CHARLIE (TUMKI 1C)
ENOBI ONE NOVEMBER (ENOBI 1N)
TUMKI ONE NOVEMBER (TUMKI 1N)
BY ATC

RWY 17 ARRIVALS
VOR DME REQUIRED

TUMKI
N53 56.9 E023 53.9
At or below
FL150

SOTET
N53 49.8 E023 33.2
At or below
FL150

LOBGI
N53 50.2 E023 49.5

(IAF)
GILIP
N53 46.7 E023 53.0
At **4000'**

(IAF)
NEPUD
N53 48.4 E024 02.6
At **3000'**

MG01
N53 44.8
E023 44.5

ENOBI
N53 35.6
E023 37.8
At or below
FL150

(IAF)
HRODNA
D (H) **115.75 GRD**
N53 36.5 E024 03.4
At **4000'**

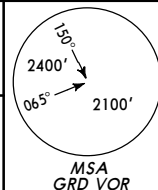


STAR	ROUTING
ENOBI 1C	Intercept GRD R-261 inbound to GRD.
ENOBI 1N By ATC	On 033° track to GILIP.
SOTET 1C	Intercept GRD R-301 inbound to MG01, turn LEFT, along GRD 12 DME arc to GILIP.
TUMKI 1C	On 195° track to LOBGI, turn LEFT, intercept GRD R-323 inbound to GILIP.
TUMKI 1N By ATC	On 143° track to NEPUD.

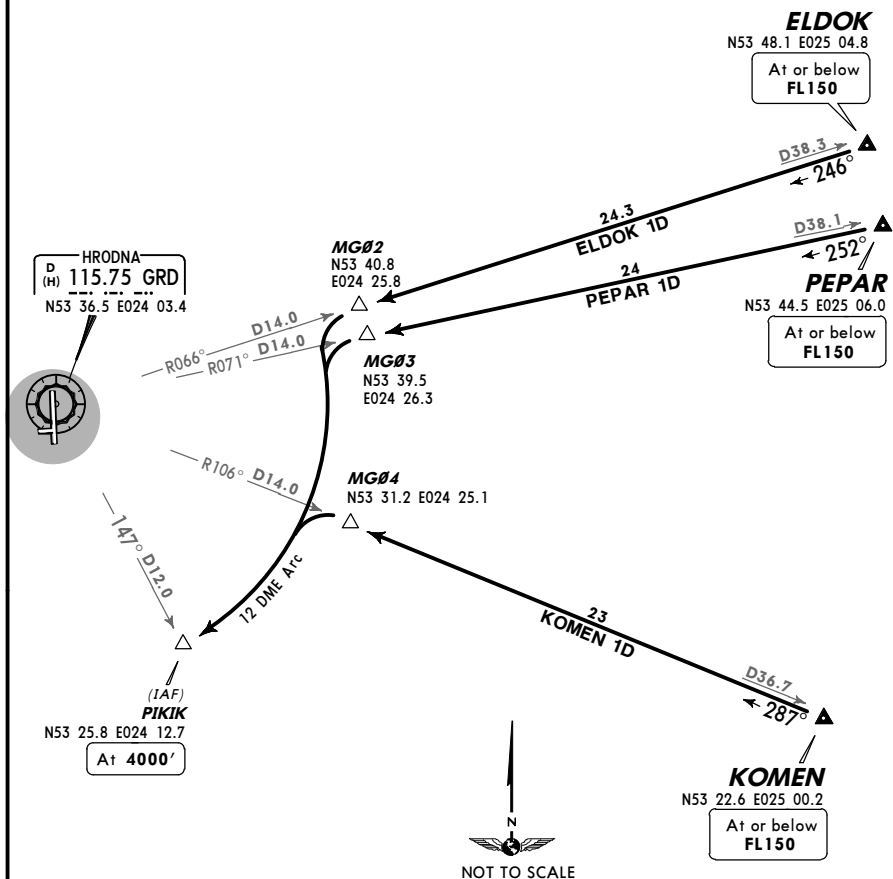
*ATIS
135.02
(Russian 126.17)

Apt Ele
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



ELDOK ONE DELTA (ELDOK 1D)
KOMEN ONE DELTA (KOMEN 1D)
PEPAR ONE DELTA (PEPAR 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED



STAR	ROUTING
ELDOK 1D	Intercept GRD R-066 inbound to MG02, turn LEFT, along GRD 12 DME arc to PIKIK.
KOMEN 1D	Intercept GRD R-106 inbound to MG04, turn LEFT, along GRD 12 DME arc to PIKIK.
PEPAR 1D	Intercept GRD R-071 inbound to MG03, turn LEFT, along GRD 12 DME arc to PIKIK.

UMMG/GNA
HRODNA

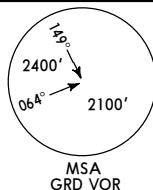
JEPPESSEN
7 AUG 15 **(10-2D)** Eff 20 Aug

HRODNA, BELARUS
STAR

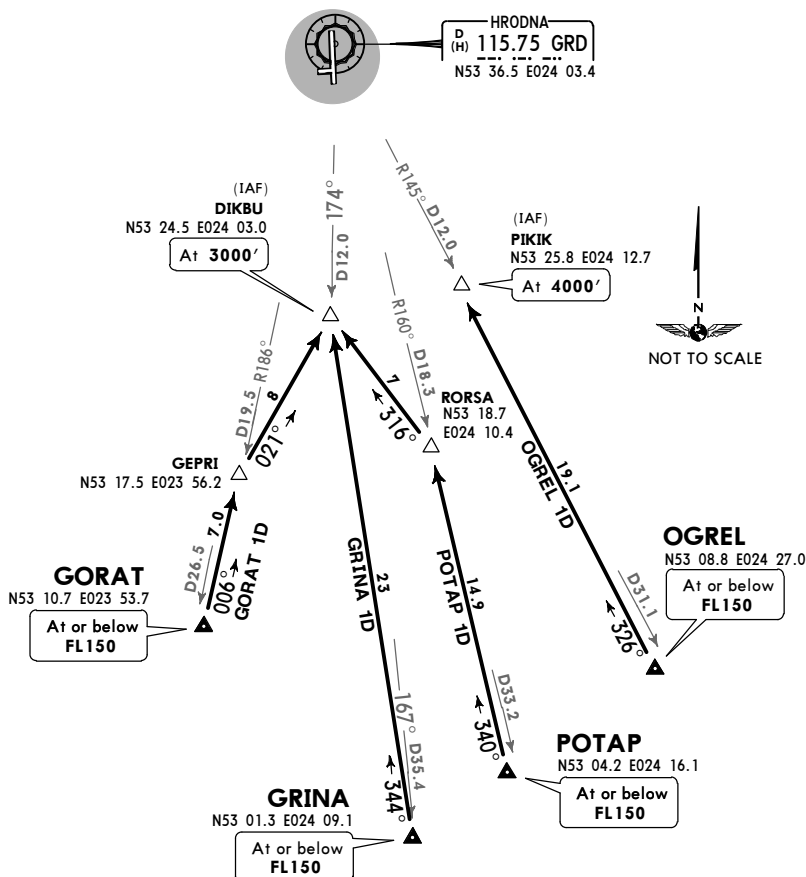
*ATIS
135.025
(Russian 126.175)

Apt Elev
443'

Alt Set: hPa
Trans level: By ATC Trans alt: 6000'



GORAT ONE DELTA (GORAT 1D)
GRINA ONE DELTA (GRINA 1D)
OGREL ONE DELTA (OGREL 1D)
POTAP ONE DELTA (POTAP 1D)
RWY 35 ARRIVALS
VOR DME REQUIRED

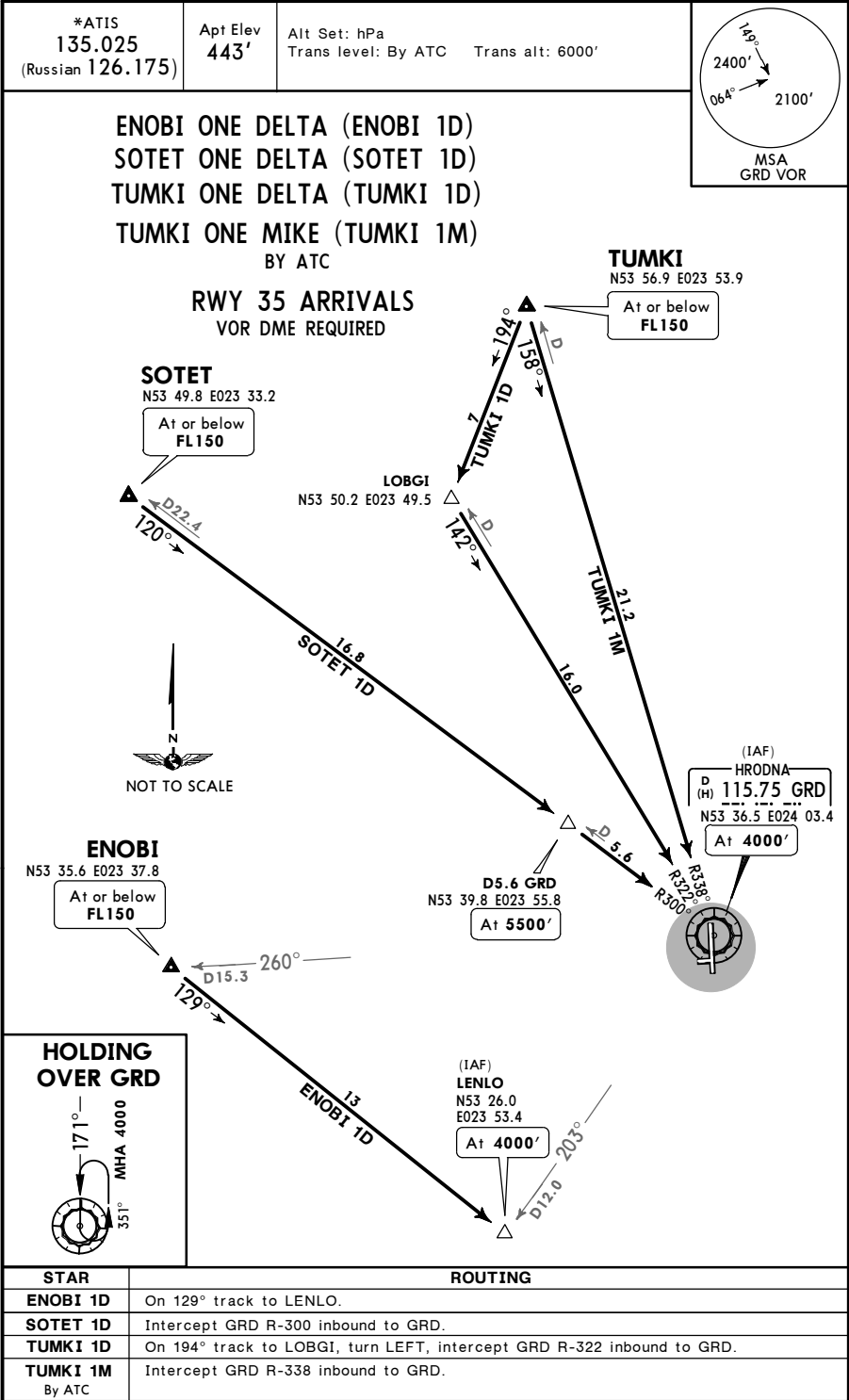


STAR	ROUTING
GORAT 1D	On 006° track to GEPRI, turn RIGHT, 021° track to DIKBU.
GRINA 1D	On 344° track to DIKBU.
OGREL 1D	Intercept GRD R-146 inbound to PIKIK.
POTAP 1D	Intercept GRD R-160 inbound to RORSA, turn LEFT, 316° track to DIKBU.

UMMG/GNA
HRODNA

JEPPESSEN
7 AUG 15 10-2E Eff 20 Aug

HRODNA, BELARUS
STAR



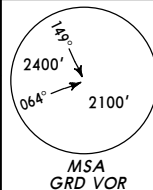
UMMG/GNA
HRODNA

JEPPESSEN
26 DEC 14 **(10-3)** **Eff 8 Jan**

HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



ELDOK ONE ALFA (ELDOK 1A) [ELDO1A]
KOMEN ONE ALFA (KOMEN 1A) [KOME1A]
PEPAR ONE ALFA (PEPAR 1A) [PEPA1A]
RWY 17 DEPARTURES
VOR DME REQUIRED



HRODNA
D (H) **115.75 GRD**
N53 36.5 E024 03.4

ELDOK
N53 48.1 E025 04.8
At or below
FL150

PEPAR
N53 44.5 E025 06.0
At or below
FL150

KOMEN
N53 22.6 E025 00.2
At or below
FL150

At or above
1100'

035°
040°
075°

105°

065°
070°

ELDOK 1A
PEPAR 1A

KOMEN 1A

D38.3
D38.1
D36.7

SID

ROUTING

ELDOK 1A

Climb straight ahead to at or above 1100', turn LEFT, 035° track, intercept GRD R-065 to ELDOK.

KOMEN 1A

Climb straight ahead to at or above 1100', turn LEFT, 075° track, intercept GRD R-105 to KOMEN.

PEPAR 1A

Climb straight ahead to at or above 1100', turn LEFT, 040° track, intercept GRD R-070 to PEPAR.

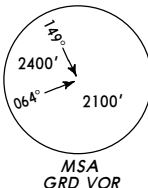
UMMG/GNA
HRODNA

JEPPESSEN
26 DEC 14 (10-3A) Eff 8 Jan

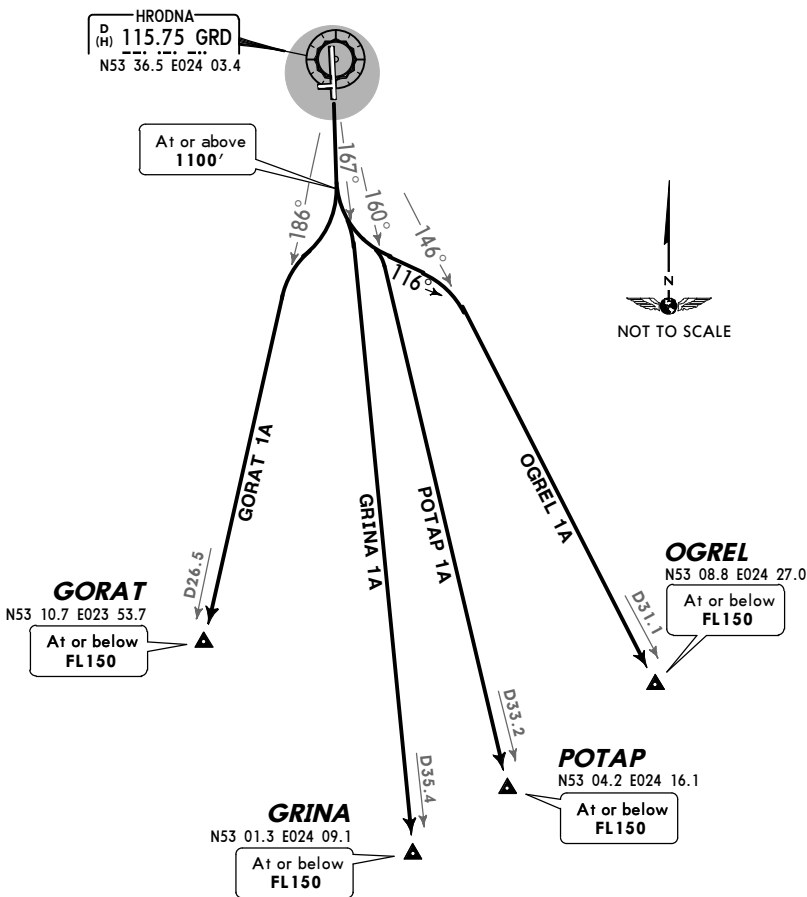
HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



GORAT ONE ALFA (GORAT 1A) [GORA1A]
GRINA ONE ALFA (GRINA 1A) [GRIN1A]
OGREL ONE ALFA (OGREL 1A) [OGRE1A]
POTAP ONE ALFA (POTAP 1A) [POTA1A]
RWY 17 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1A	Climb straight ahead to at or above 1100', turn RIGHT, intercept GRD R-186 to GORAT.
GRINA 1A	Climb straight ahead to at or above 1100', turn LEFT, intercept GRD R-167 to GRINA.
OGREL 1A	Climb straight ahead to at or above 1100', turn LEFT, 116° track, intercept GRD R-146 to OGREL.
POTAP 1A	Climb straight ahead to at or above 1100', turn LEFT, intercept GRD R-160 to POTAP.

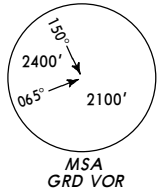
UMMG/GNA
HRODNA

JEPPESSEN
19 JUL 13 (10-3B)

HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



SOTET ONE ALFA (SOTET 1A)
TUMKI ONE ALFA (TUMKI 1A)
TUMKI ONE KILO (TUMKI 1K)
BY ATC

RWY 17 DEPARTURES
VOR DME REQUIRED

TUMKI
N53 56.9 E023 53.9
At or below
FL150

SOTET
N53 49.8 E023 33.2
At or below
FL150

LOBGI
N53 50.2 E023 49.5

HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4



SID	ROUTING
SOTET 1A	Climb straight ahead to at or above 1100', turn RIGHT, 331° track, intercept GRD R-301 to SOTET.
TUMKI 1A	Climb straight ahead to at or above 1100', turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1K By ATC	Climb straight ahead to at or above 1100', turn LEFT, 309° track, intercept GRD R-339 to TUMKI.

CHANGES: SID TUMKI 1K revised.

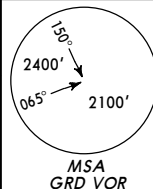
UMMG/GNA
HRODNA

JEPPESEN
19 JUL 13 (10-3C)

HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



ELDOK ONE BRAVO (ELDOK 1B)
KOMEN ONE BRAVO (KOMEN 1B)
PEPAR ONE BRAVO (PEPAR 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED

ELDOK
N53 48.1 E025 04.8
At or below
FL150

PEPAR
N53 44.5 E025 06.0
At or below
FL150

KOMEN
N53 22.6 E025 00.2
At or below
FL150



HRODNA
D (H) 115.75 GRD
N53 36.5 E024 03.4

SID	ROUTING
ELDOK 1B	Climb straight ahead to at or above 1100', turn RIGHT, 096° track, intercept GRD R-066 to ELDOK.
KOMEN 1B	Climb straight ahead to at or above 1100', turn RIGHT, 136° track, intercept GRD R-106 to KOMEN.
PEPAR 1B	Climb straight ahead to at or above 1100', turn RIGHT, 101° track, intercept GRD R-071 to PEPAR.

CHANGES: None.

© JEPPESEN, 2013. ALL RIGHTS RESERVED.

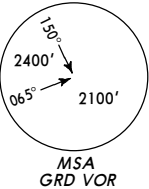
UMMG/GNA
HRODNA

 **JEPPESSEN**
28 JUN 13 **(10-3D)**

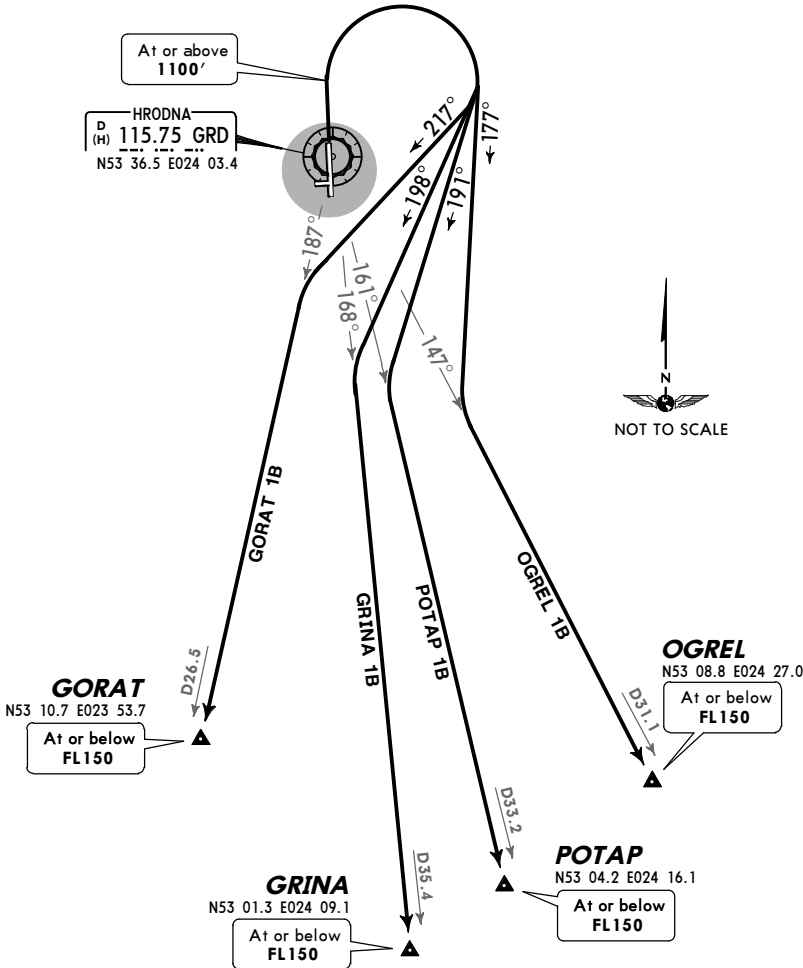
HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



GORAT ONE BRAVO (GORAT 1B)
GRINA ONE BRAVO (GRINA 1B)
OGREL ONE BRAVO (OGREL 1B)
POTAP ONE BRAVO (POTAP 1B)
RWY 35 DEPARTURES
VOR DME REQUIRED



SID	ROUTING
GORAT 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 217° track, intercept GRD R-187 to GORAT.
GRINA 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 198° track, intercept GRD R-168 to GRINA.
OGREL 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 177° track, intercept GRD R-147 to OGREL.
POTAP 1B	Climb straight ahead to at or above 1100' , turn RIGHT, 191° track, intercept GRD R-161 to POTAP.

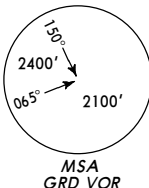
UMMG/GNA
HRODNA

 **JEPPESSEN**
28 JUN 13 **(10-3E)**

HRODNA, BELARUS
SID

Apt Elev
443'

Trans level: By ATC Trans alt: 6000'
Procedures based on 240 KT.



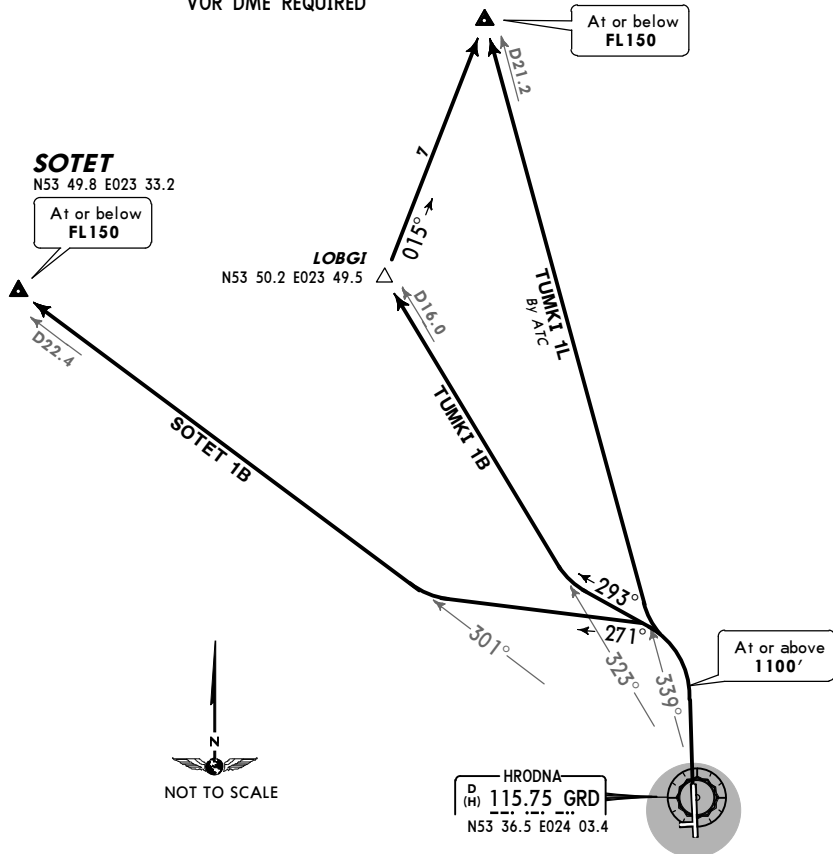
SOTET ONE BRAVO (SOTET 1B)
TUMKI ONE BRAVO (TUMKI 1B)
TUMKI ONE LIMA (TUMKI 1L)
BY ATC

RWY 35 DEPARTURES
VOR DME REQUIRED

TUMKI
N53 56.9 E023 53.9
At or below
FL150

SOTET
N53 49.8 E023 33.2
At or below
FL150

LOBGI
N53 50.2 E023 49.5



HRODNA
D
(H) **115.75 GRD**
N53 36.5 E024 03.4

SID	ROUTING
SOTET 1B	Climb straight ahead to at or above 1100', turn LEFT, 271° track, intercept GRD R-301 to SOTET.
TUMKI 1B	Climb straight ahead to at or above 1100', turn LEFT, 293° track, intercept GRD R-323 to LOBGI, turn RIGHT, 015° track to TUMKI.
TUMKI 1L By ATC	Climb straight ahead to at or above 1100', turn LEFT, intercept GRD R-339 to TUMKI.

UMMG/GNA

Apt Elev **443'**
N53 36.1 E024 03.2

JEPPESSEN

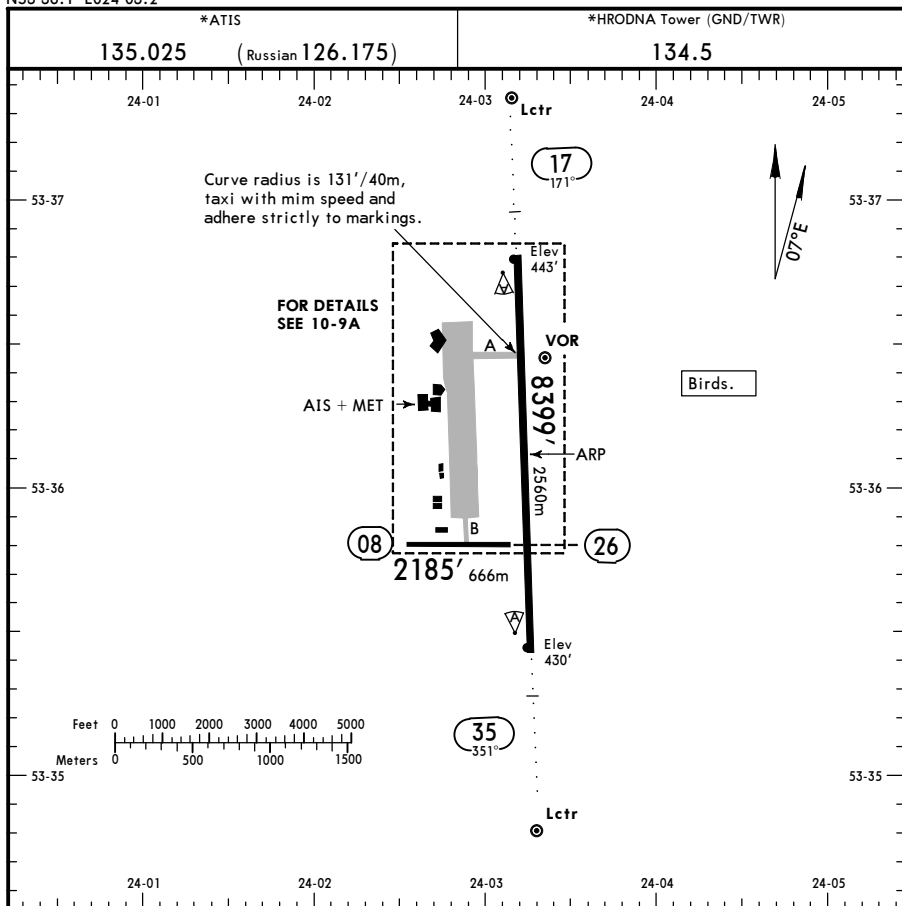
2 OCT 15

(10-9)

Eff 15 Oct

HRODNA, BELARUS

HRODNA



ADDITIONAL RUNWAY INFORMATION

					USABLE LENGTHS		TAKE-OFF	WIDTH
					LANDING BEYOND			
RWY					Threshold	Glide Slope		
08								92' 28m
26								
17	RL (60m)	ALS	PAPI-L (angle 2.67°)	RVR	7245'	2208m	1	138' 42m
35								

1 TAKE-OFF RUN AVAILABLE

RWY 17:

From rwy head 8399' (2560m)
twy A int 5676' (1730m)

RWY 35:

From rwy head 8399' (2560m)
twy A int 2723' (830m)

TAKE-OFF

AIR CARRIER (JAA)

All Rwys

LVP must be in force

RCLM (DAY only)
or RL

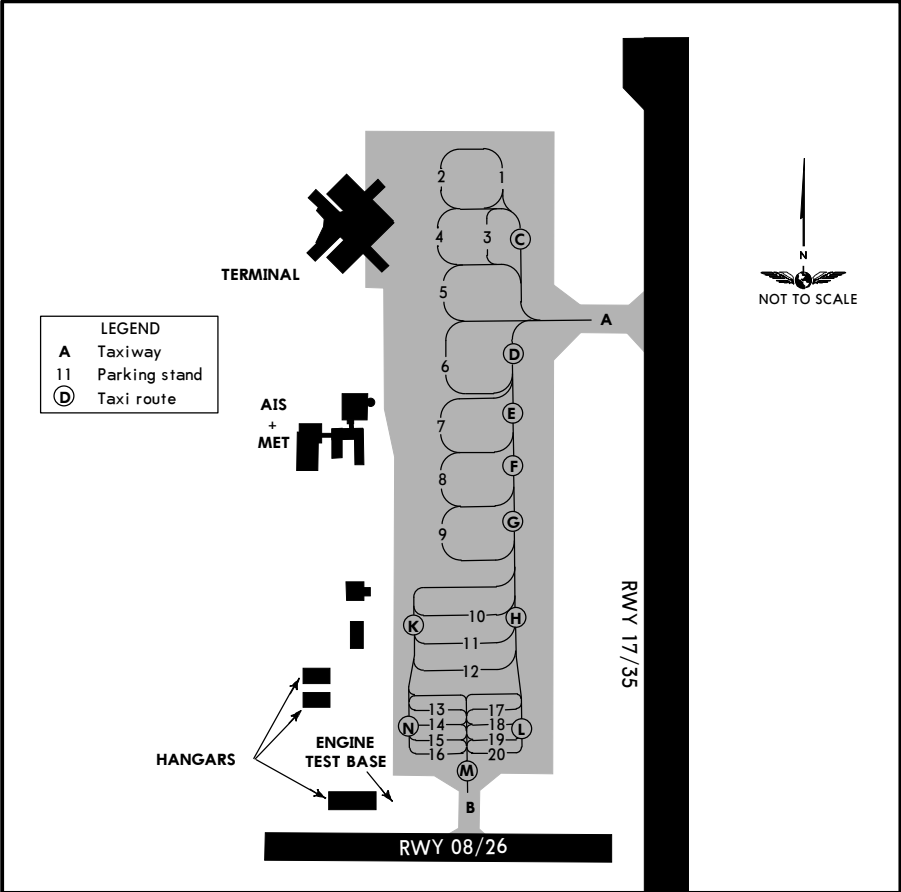
RCLM (DAY only)
or RL

A		
B	250m	400m
C		
D	300m	

UMMG/GNA

JEPPESSEN
2 OCT 15 **(10-9A)** **Eff 15 Oct**

HRODNA, BELARUS
HRODNA



INS COORDINATES			
STAND No.	COORDINATES	STAND No.	COORDINATES
1	N53 36.5 E024 02.9	8, 9	N53 36.2 E024 02.9
2	N53 36.5 E024 02.8	10 thru 12	N53 36.1 E024 02.9
3	N53 36.4 E024 02.9	13 thru 16	N53 35.9 E024 02.8
4, 5	N53 36.4 E024 02.8	17 thru 20	N53 35.9 E024 02.9
6, 7	N53 36.3 E024 02.9		

TAXIING PROCEDURE

Taxiing and towing without permission of taxiing controller are prohibited.

UMMG/GNA

3 OCT 14



JEPPESSEN

10-9S

Eff 16 Oct

HRODNA,

Standard

BELARUS

HRODNA

STRAIGHT-IN RWY		A	B	C	D
17	ILS	643' (200')	643' (200')	643' (200')	643' (200')
		R1000m	R1000m	R1000m	R1000m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ①	820' (377')	820' (377')	820' (377')	820' (377')
		R1500m	R1500m	R1500m	R1500m
	ALS out	R1500m	R1500m	R1700m	R1700m
	NDB ①	820' (377')	820' (377')	820' (377')	820' (377')
	with FMS	R1500m	R1500m	R1500m	R1500m
	ALS out	R1500m	R1500m	R1700m	R1700m
	NDB ①	820' (377')	820' (377')	820' (377')	820' (377')
	w/o FMS	R1500m	R1500m	R1500m	R1500m
35	ALS out	R1700m	R1700m	R1700m	R1700m
	VOR ①	760' (330')	760' (330')	760' (330')	760' (330')
		R1300m	R1300m	R1300m	R1300m
	ALS out	R1500m	R1500m	R1500m	R1500m
	NDB ①	780' (350')	780' (350')	780' (350')	780' (350')
	with FMS	R1400m	R1400m	R1400m	R1400m
	ALS out	R1500m	R1500m	R1600m	R1600m
	NDB ①	780' (350')	780' (350')	780' (350')	780' (350')
	w/o FMS	R1400m	R1400m	R1400m	R1400m
	ALS out	R1600m	R1600m	R1600m	R1600m

① Continuous Descent Final Approach.

CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
	900' (457')	950' (507')	1140' (697') ②	1150' (707')
	1500m ③	1600m ③	2400m	3600m

② after ILS 17: 1050' (607').

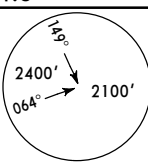
③ or higher minimums of preceding straight-in approach.

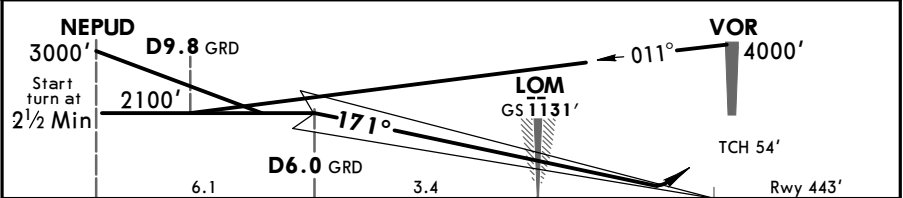
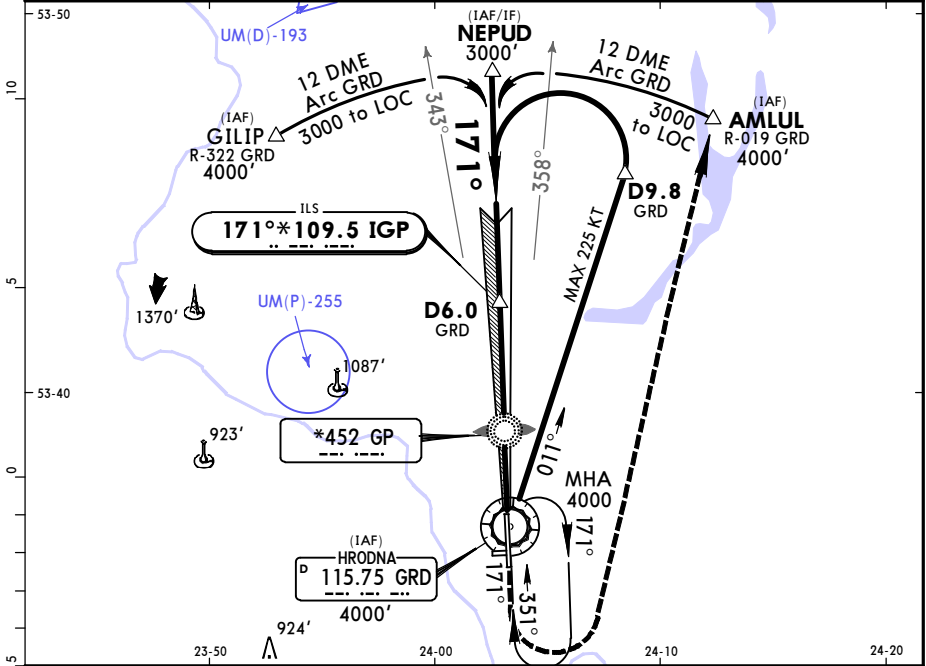
TAKE-OFF RWY 08, 17, 26, 35		
LVP must be in Force		
RCLM (DAY only) or RL		RCLM (DAY only) or RL
		NIL (DAY only)
A	250m	400m
B		
C		
D	300m	500m

UMMG/GNA
HRODNA

JEPPESEN
2 OCT 15 **11-1** Eff 15 Oct

HRODNA, BELARUS
ILS Rwy 17

BRIEFING STRIP™	*ATIS 135.025 (Russian 126.175)		*HRODNA Tower (APP/SRE/TWR) 134.5		*Ground 134.5	
	LOC IGP *109.5	Final Apch Crs 171°	GS LOM 1131' (688')	ILS DA(H) 643' (200')	Apt Elev 443' Rwy 443'	 MSA GRD VOR
	MISSED APCH: Climb on 171° to 1100' or above, then turn LEFT to AMLUL climbing to 3000', then as directed.					
	Alt Set: hPa		Rwy Elev: 16 hPa	Trans level: By ATC	Trans alt: 6000'	
	VOR DME required.					



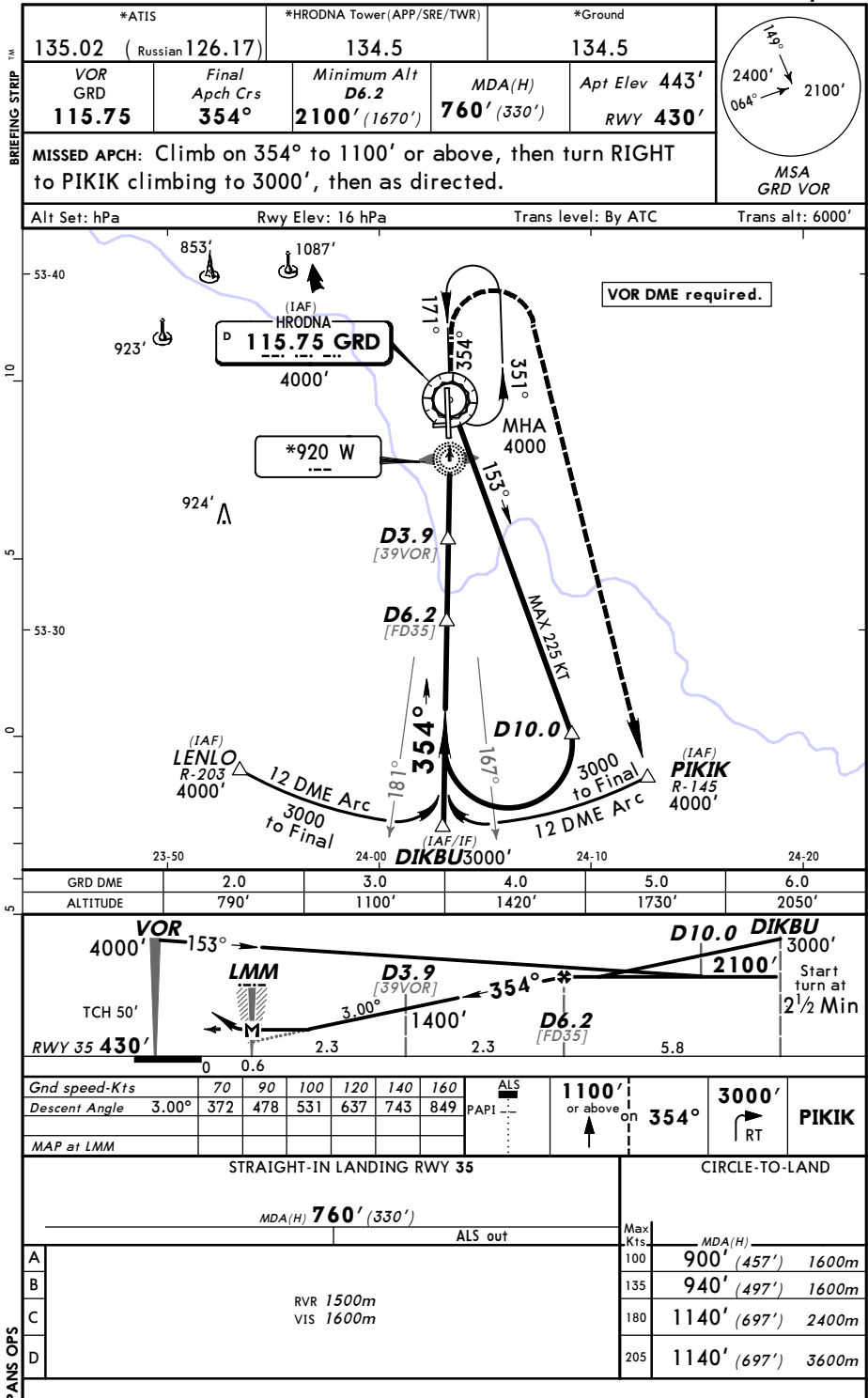
Gnd speed-Kts	70	90	100	120	140	160	ALS	1100' or above	3000'	AMLUL
Descent Angle	2.70°	334	430	478	573	669	764	PAPI	171°	LT

STRAIGHT-IN LANDING RWY 17			CIRCLE-TO-LAND		
ILS		LOC (GS out)			
DA(H) 643' (200')					
FULL		ALS out			
A			Max Kts	MDA(H)	
B			100	900' (457')	1600m
C			135	940' (497')	1600m
D			180	1040' (597')	2400m
			205	1140' (697')	3600m

UMMG/GNA
HRODNA

JEPPESSEN
3 OCT 14 **13-2** Eff 16 Oct

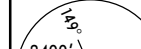
HRODNA, BELARUS
VOR Rwy 35

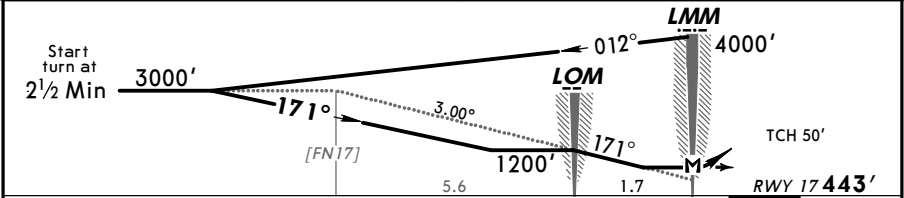
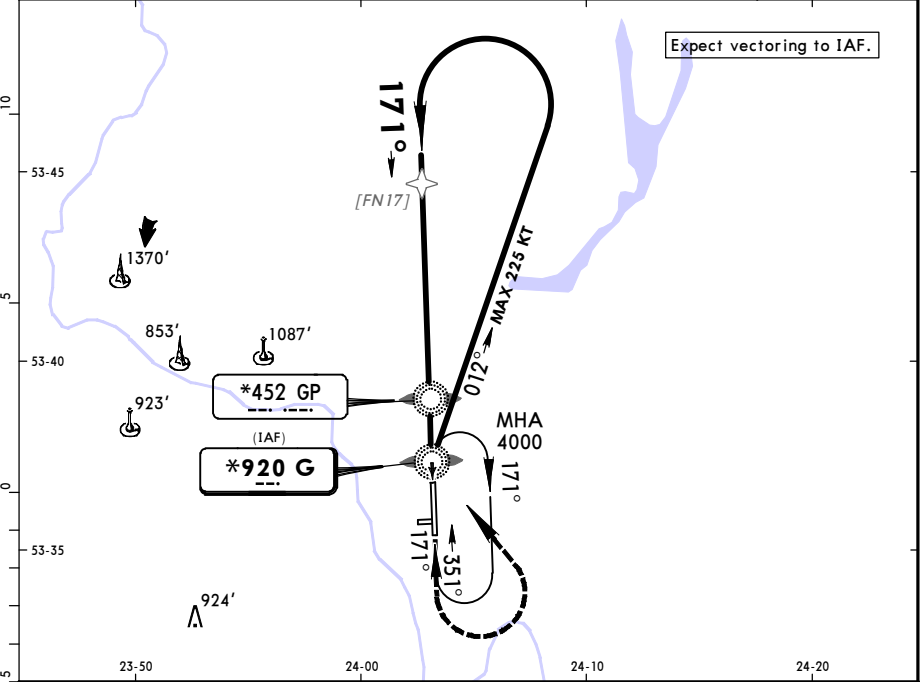


UMMG/GNA
HRODNA

JEPPESSEN
3 OCT 14 (16-1) Eff 16 Oct

HRODNA, BELARUS
NDB Rwy 17

BRIEFING STRIP ™	*ATIS 135.02 (Russian 126.17)		*HRODNA Tower (APP/SRE/TWR) 134.5		*Ground 134.5	
	NDB G *920	Final Apch Crs 171°	Minimum Alt No FAF	MDA(H) 820' (377')	Apt Elev 443' RWY 443'	
	MISSED APCH: Climb on 171° to 1500' or above, then turn LEFT to G NDB climbing to 3000', then as directed.					
	Alt Set: hPa		Rwy Elev: 16 hPa		Trans level: By ATC	
	Rwy Elev: 16 hPa		Trans alt: 6000'		MSA G NDB	



Gnd speed-Kts	70	90	100	120	140	160	ALS	1500' or above on	3000' LT	G 920
Descent Angle 3.00°	372	478	531	637	743	849	PAPI			
MAP at LMM										

STRAIGHT-IN LANDING RWY 17					CIRCLE-TO-LAND		
MDA(H) 820' (377')					Max Kts	MDA(H)	
ALS out					100	900'	(457') 1600m
RVR 1500m VIS 1600m					135	940'	(497') 1600m
					180	1140'	(697') 2400m
2000m					205	1140'	(697') 3600m

PANS OPS

CHANGES: MSA. Bearings.

© JEPPESSEN, 2000, 2014. ALL RIGHTS RESERVED.

UMMG/GNA
HRODNA

JEPPESSEN
3 OCT 14 **16-2** Eff 16 Oct

HRODNA, BELARUS
NDB Rwy 35

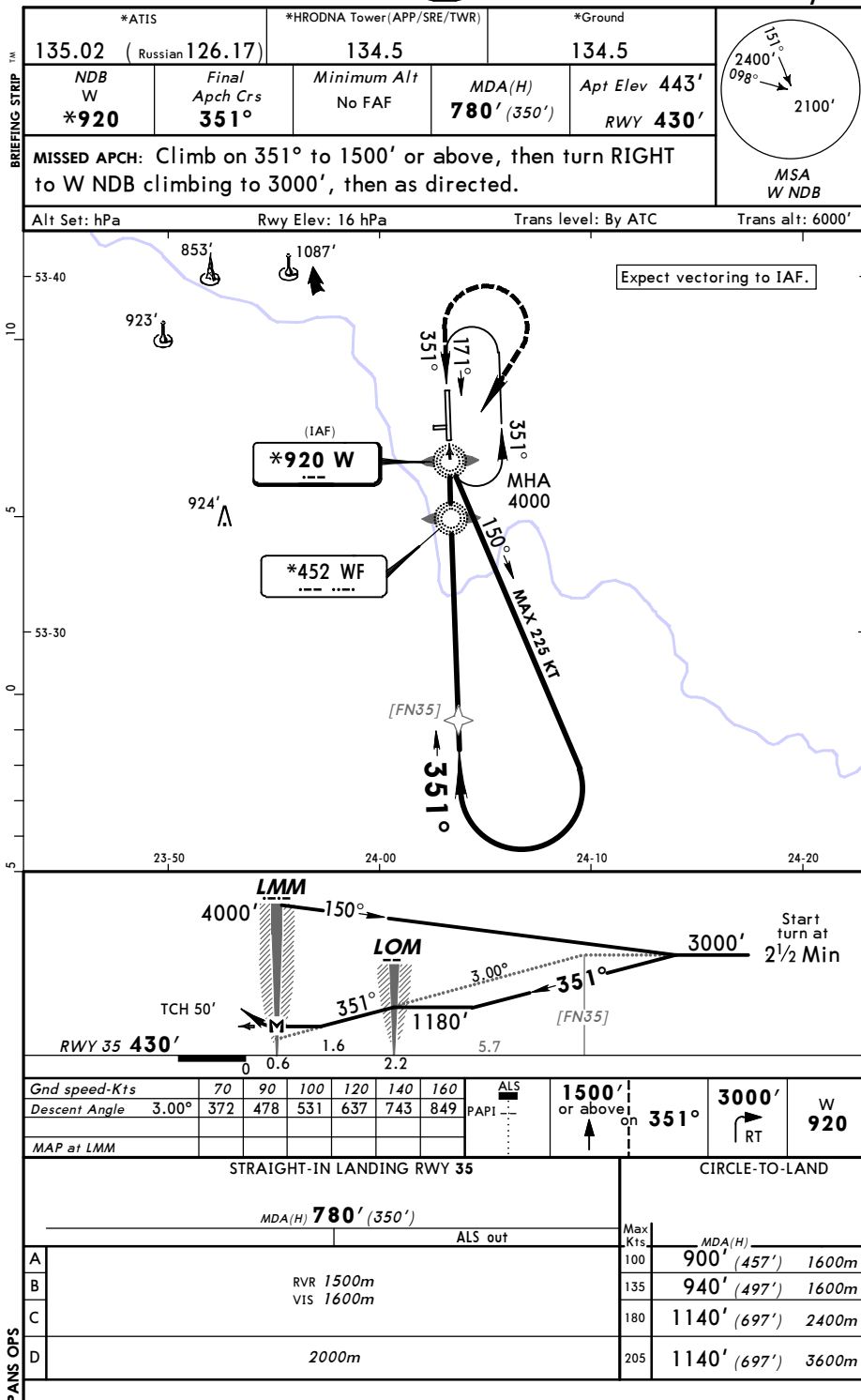




Chart changes since cycle 12-2016

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

ACT PROCEDURE IDENT

INDEX

REV DATE

EFF DATE

HRODNA, (HRODNA - UMMG)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport UMMG