

GRZ-LOWG

1-10

AOI

AOI

GENERAL**Operational Hours****ATS Hours / AD ADMIN Hours:** 0500-2230‡**Airport Information****RFF:** CAT 9**Fuel:** 0400-1900‡ other times O/R.**PCN:** RWY 17C/35C: 61/F/B/W/T**Operation****Preferential RWY**

TKOF: RWY 17C / LDG: RWY 35C

Between 0700-1700‡, except SUN and HOL, DEP from RWY 35C are exempted from this regulation.

Low Visibility Procedures

LVP in force when RVR below 600m and/or CEIL below 200ft.

Report "RWY vacated" when ACFT has left yellow/green TWY lights.

RWY Restrictions

No turn pad LGT AVBL on RWY 35C. Follow-me O/R.

ACFT up to category C: for 180° turn perform RT at the end of RWY 35C, use marking.

ACFT category D, E and F: for 180° turn, perform LT at the end of RWY 35C, no marking AVBL. 180° turn for B777-9x not possible.

TWY Restrictions

TWY Y width 18m / 59ft.

TWY X width 10m / 33ft.

TWY C MAX wingspan 80m / 262ft.

TWY B, D MAX wingspan 65m / 213ft.

TWY Y MAX wingspan 36m / 118ft.

TWY A MAX wingspan 29.9m / 98ft.

TWY B CLSD for code letter F ACFT, MD11 and B764.

APN TWY between TWY B and TWY D MAX wingspan 65m / 213ft. The reduced MNM separation distance between TWY CL and objects is 42.5m / 139ft.

Taxi/Parking

Follow-me O/R.

Visual docking guidance system AVBL.

TWY D: Oversteering method at TWY curves and use of "cockpit taxi camera", especially on turns, is recommended. Following ACFT must oversteer the TWY centerline with the nose gear: A346, A35K, A388, B744, B748, B764, B773, B789, B781, MD11.

MNM ENG PWR must be used vacating stands.

Engine Run-up Area

ENG tests have to be coordinated with the AD duty officer in advance. TWR approval must be obtained during start-up request.

GENERAL**Warnings**

GRZ VOR Maintenance: 1st Thursday of each month 0700-0900‡.

GRZ NDB Maintenance: 2nd Thursday of each month 0730-0900‡.

GRZ DME Maintenance: 3rd Thursday of each month 0700-0900‡.

GBG NDB Maintenance: 4th Thursday of each month 0800-0930‡.

OEG DME not suitable for RNAV equipment update.

Avoid to overfly city of Graz below 4200ft.

Glider flying area W of RWY 17C/35C.

Ground Handling will be stopped in case of lightning activity within 3NM around the ARP. Information to the crew will be provided by the traffic handling agent. Follow-me to the parking position is AVBL.

ARRIVAL**Arrival Procedure****Non-standard GP intercept position on RWY 35C**

GP intercepts RWY 35C at 308m / 1011ft after landing threshold.

Remaining DIST beyond GP is 2692m / 8832ft.

DEPARTURE**Take-off Minima**

RWY		35C	
All ACFT	ft - m/km	0 - 75R	-
RWY		17C	
All ACFT	ft - m/km	0 - 125R	-

Departure Procedure**Start-up/Push-back**

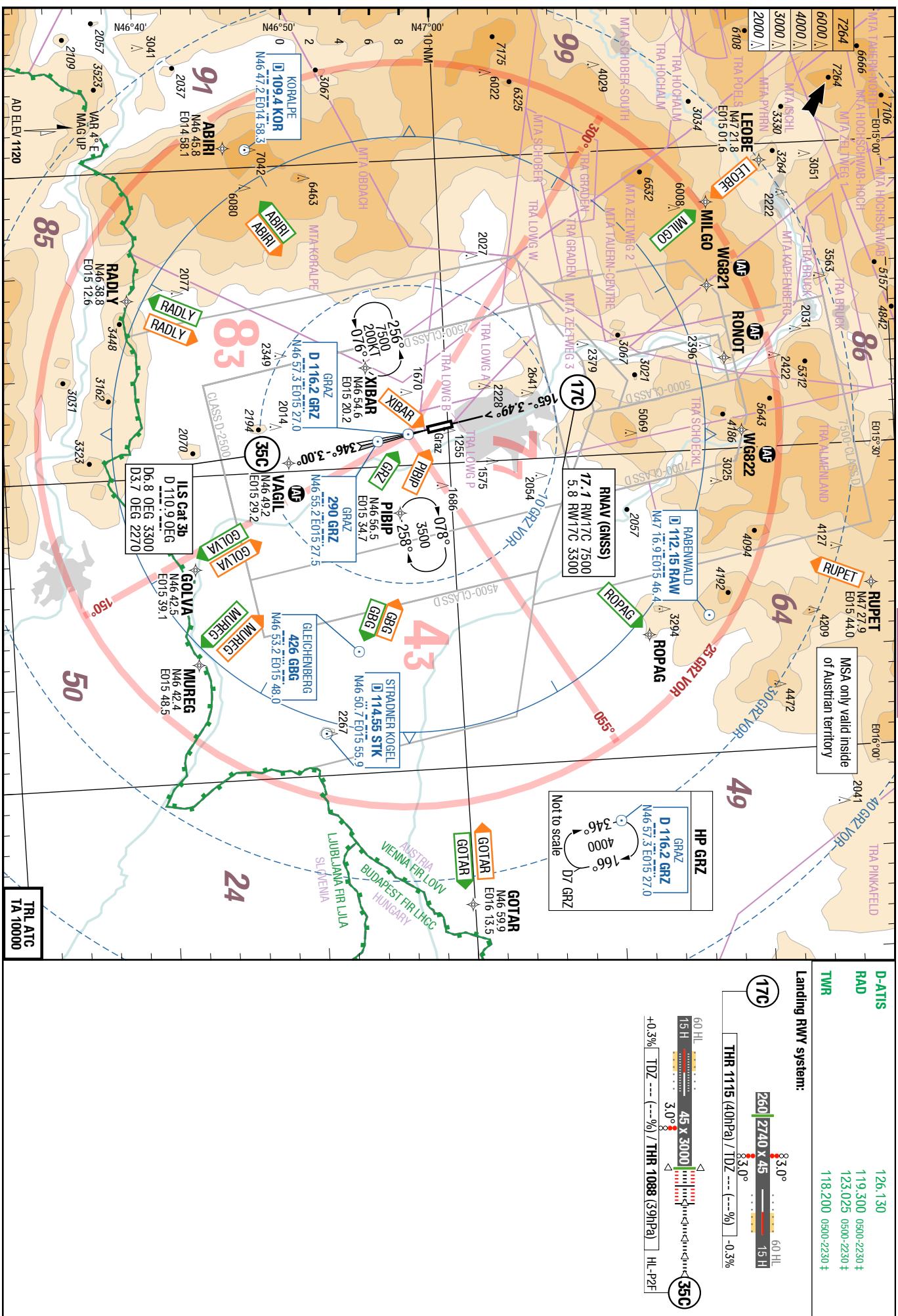
TWR must be notified during start-up request of any requirement to use cross-bleed start PROC.

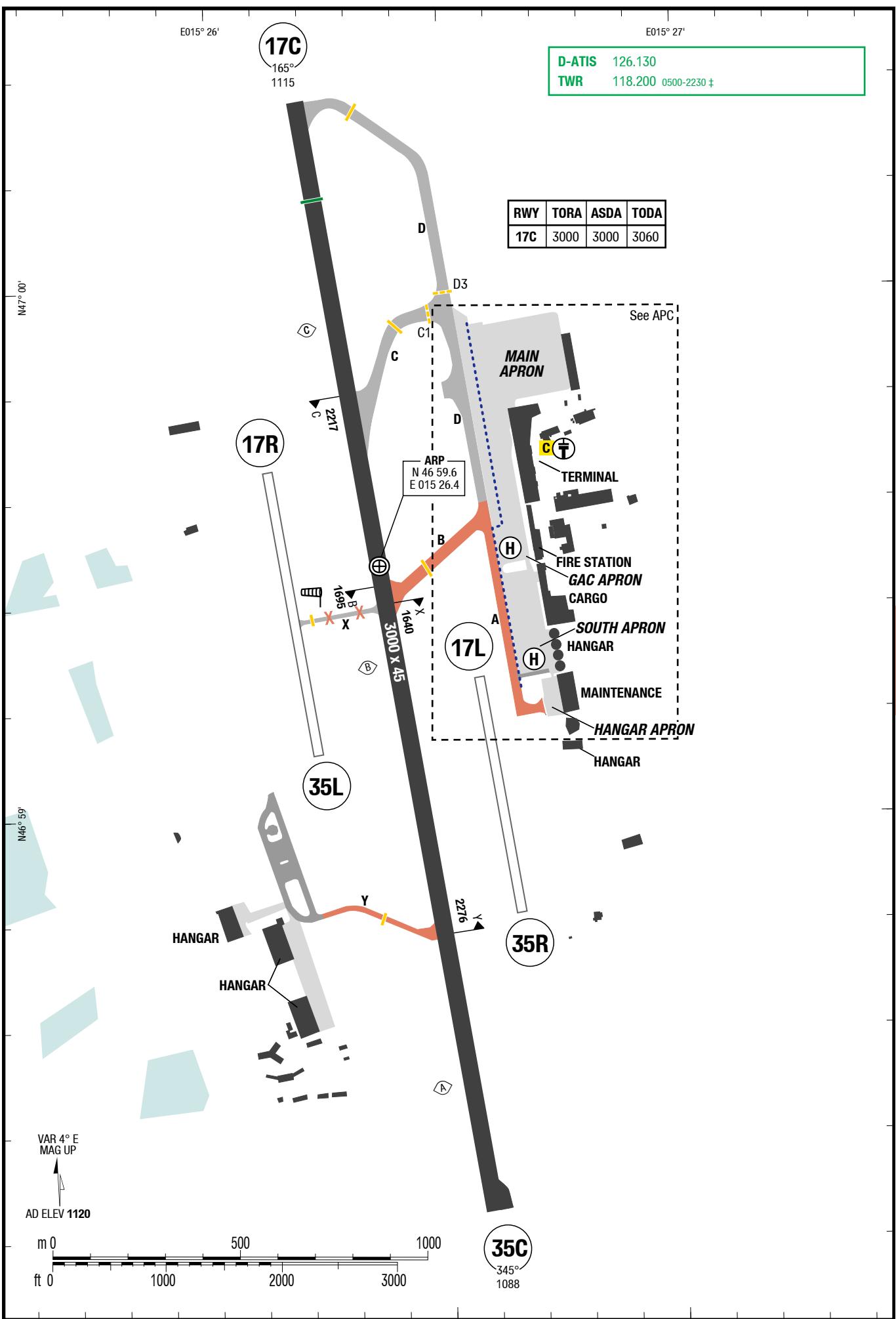
De-Icing

AVBL.

Graz
AGC
AFC

Graz Austria





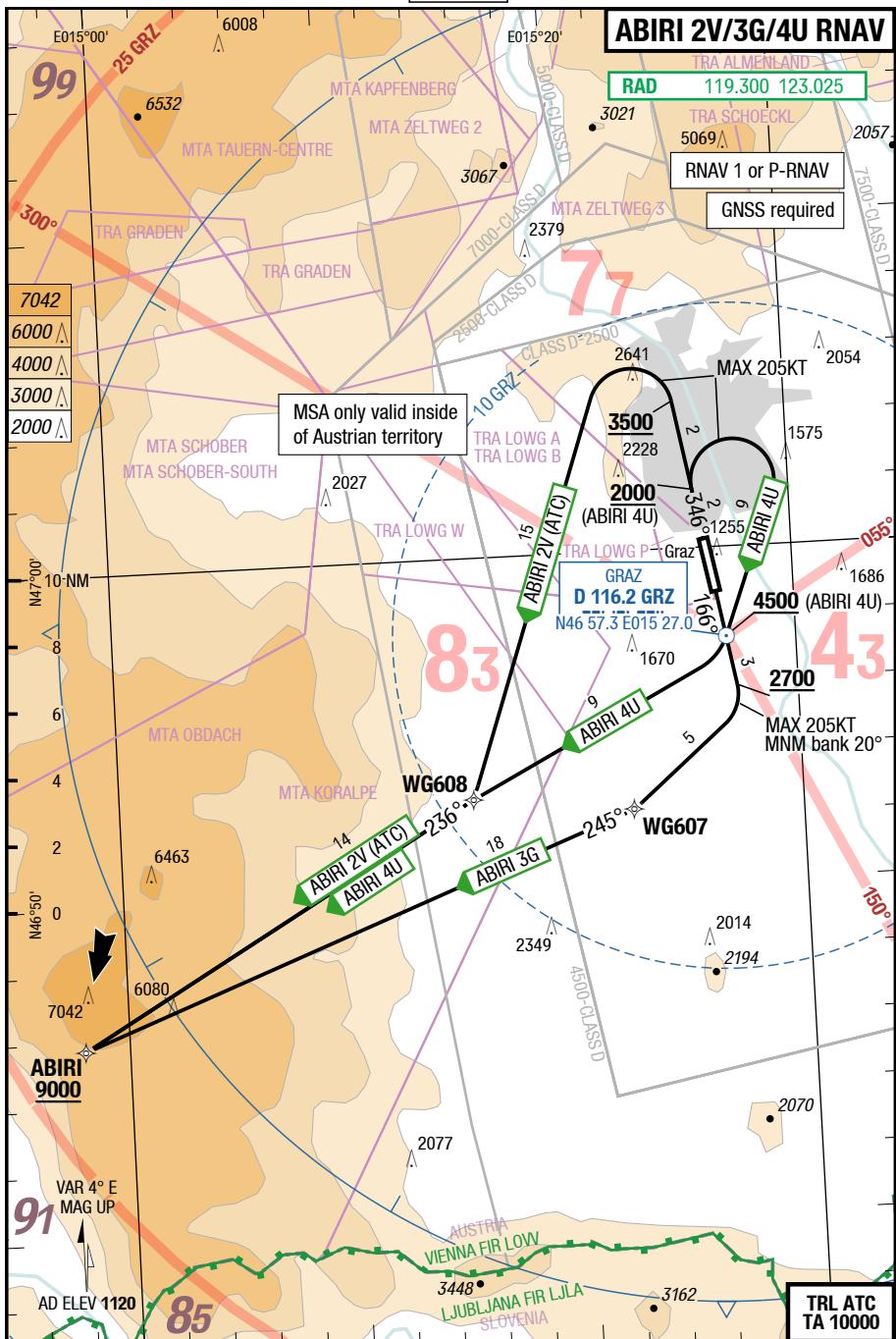


GRZ-LOWG

4-10

ABIRI 2V/3G/4U RNAV

SID



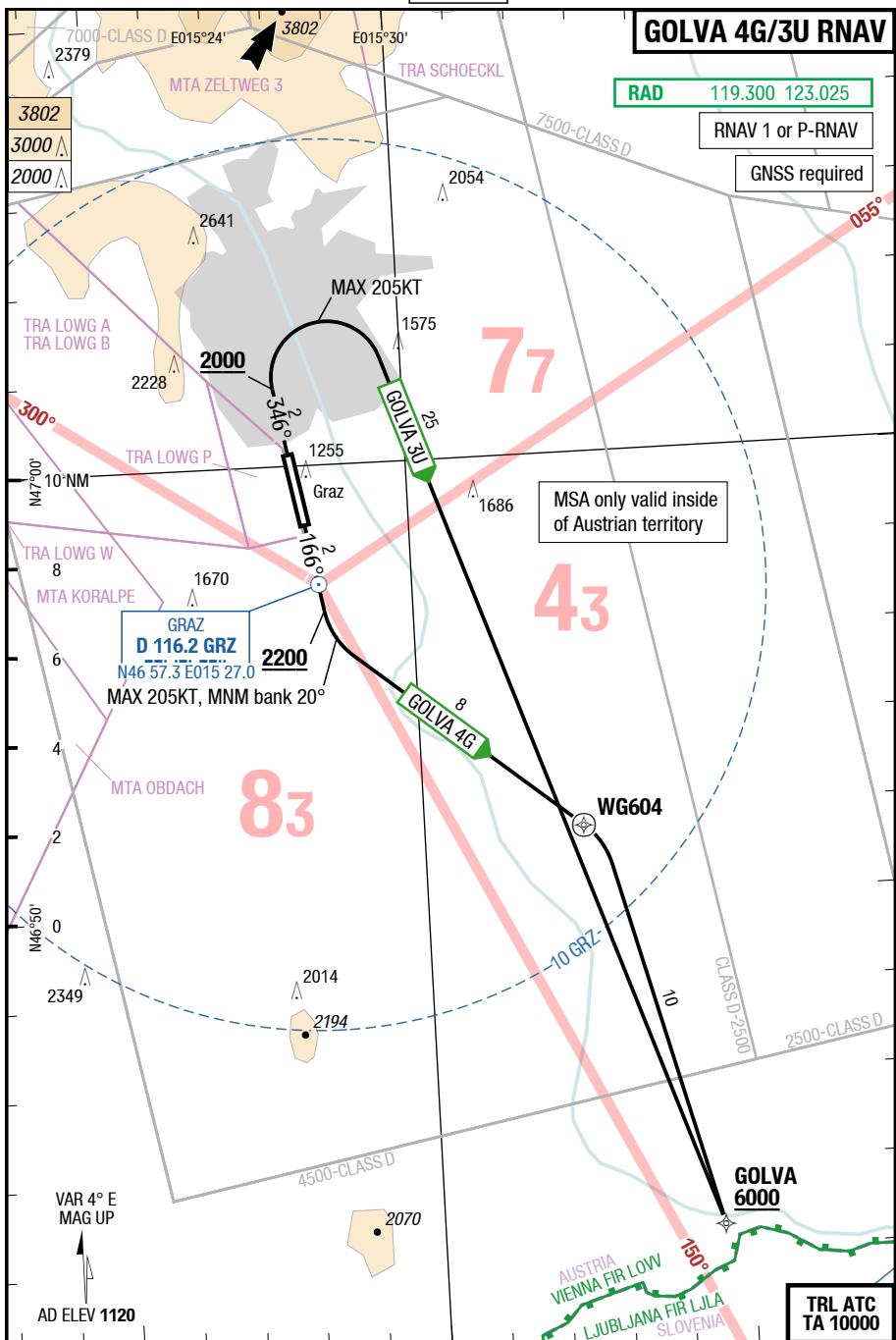
GRZ-LOWG

4-20

SID

GOLVA 4G/3U RNAV

GOLVA 4G/3U RNAV



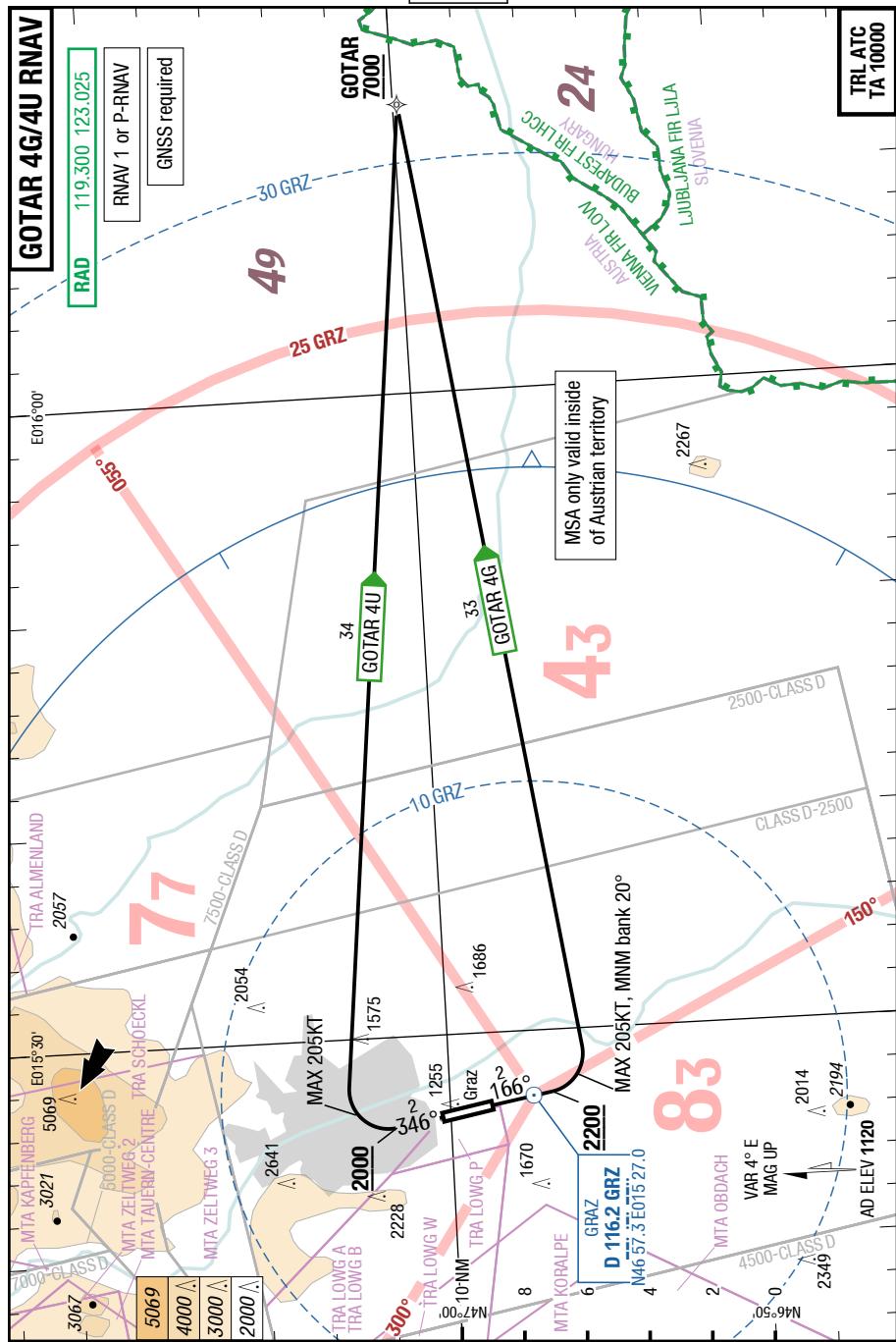
09-AUG-2018

GRZ-LOWG

4-30

GOTAR 4G/4U RNAV

SID

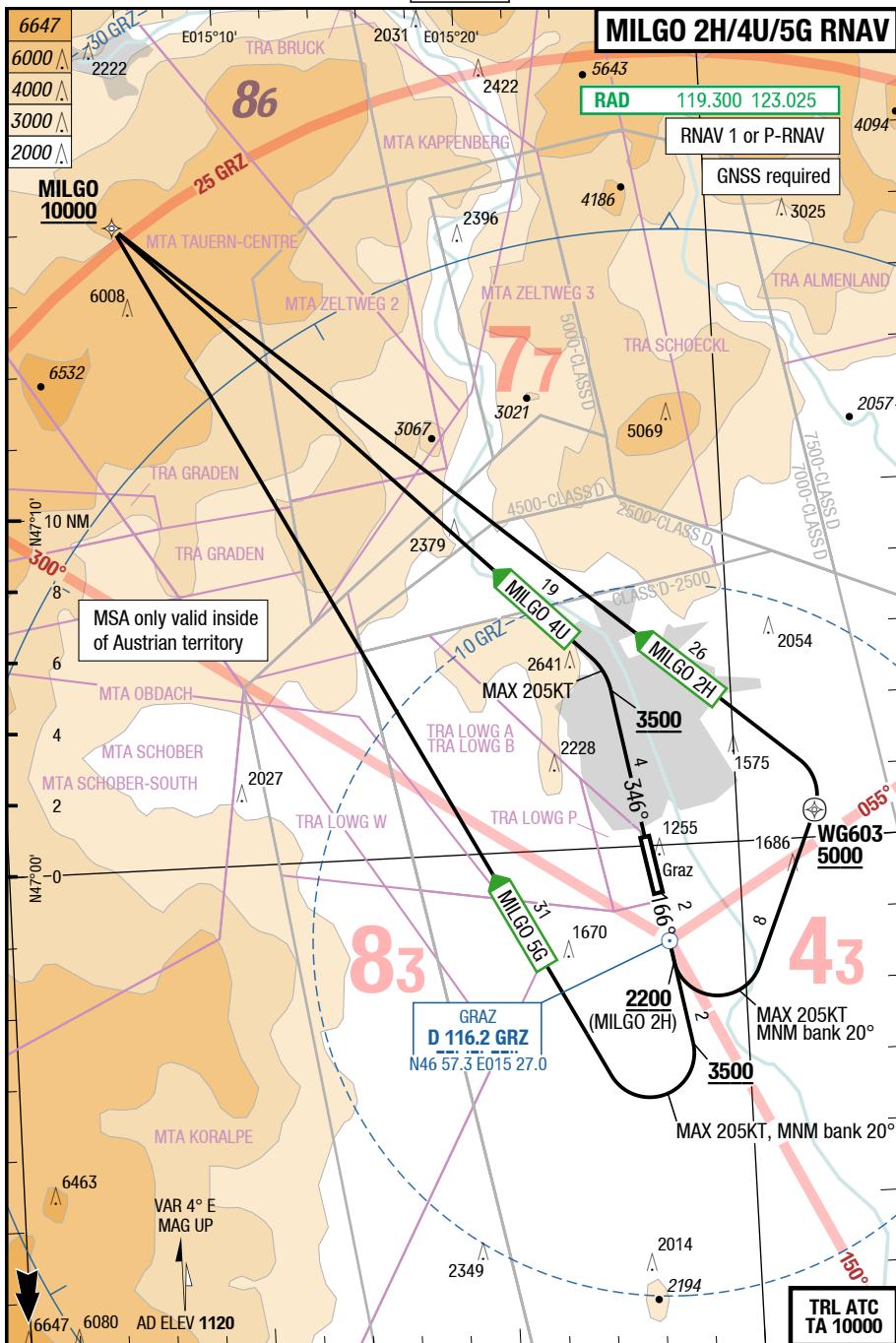


09-AUG-2018

GRZ-LOWG

4-40

MILGO 2H/4U/5G RNAV

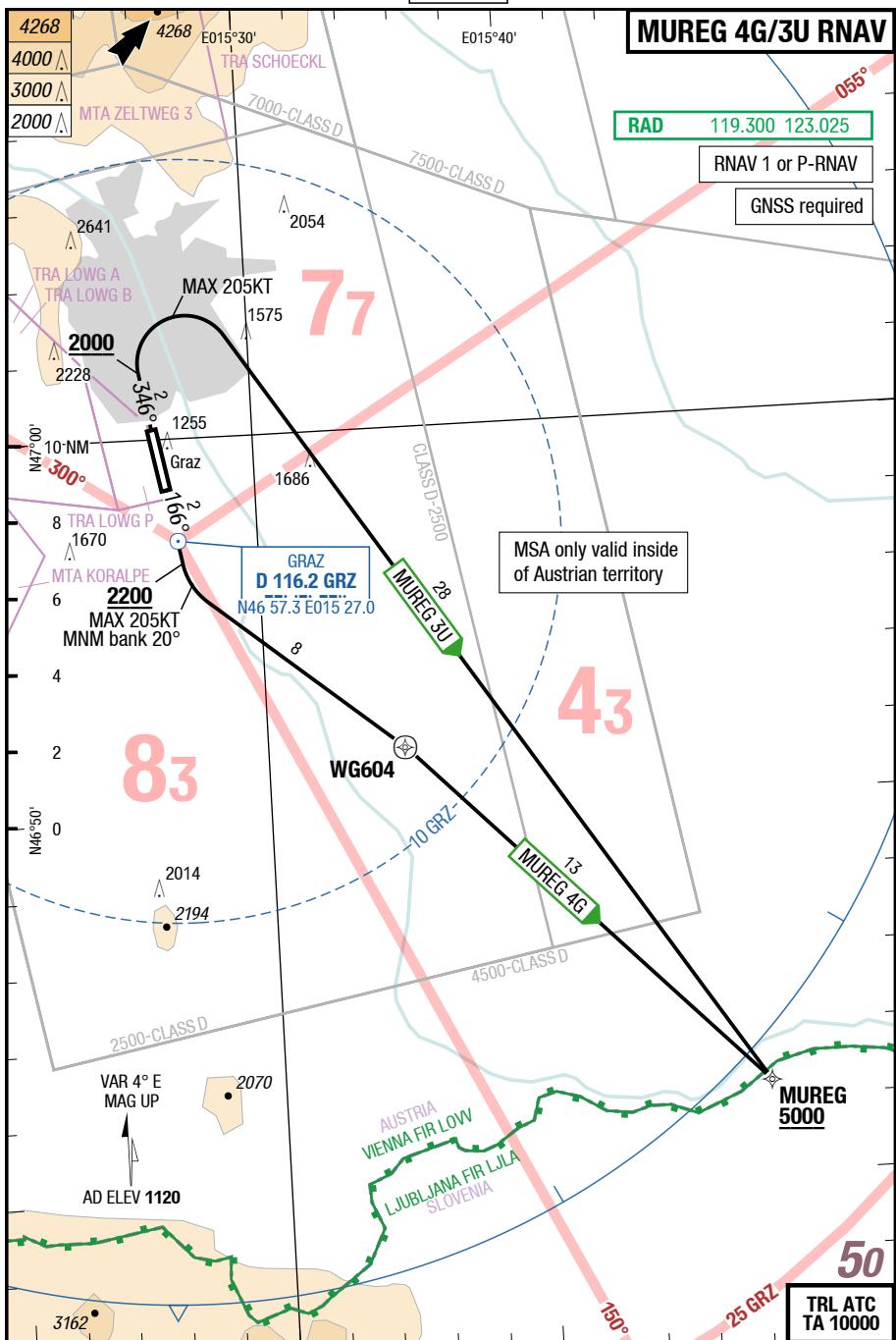


GRZ-LOWG

4-50

MUREG 4G/3U RNAV

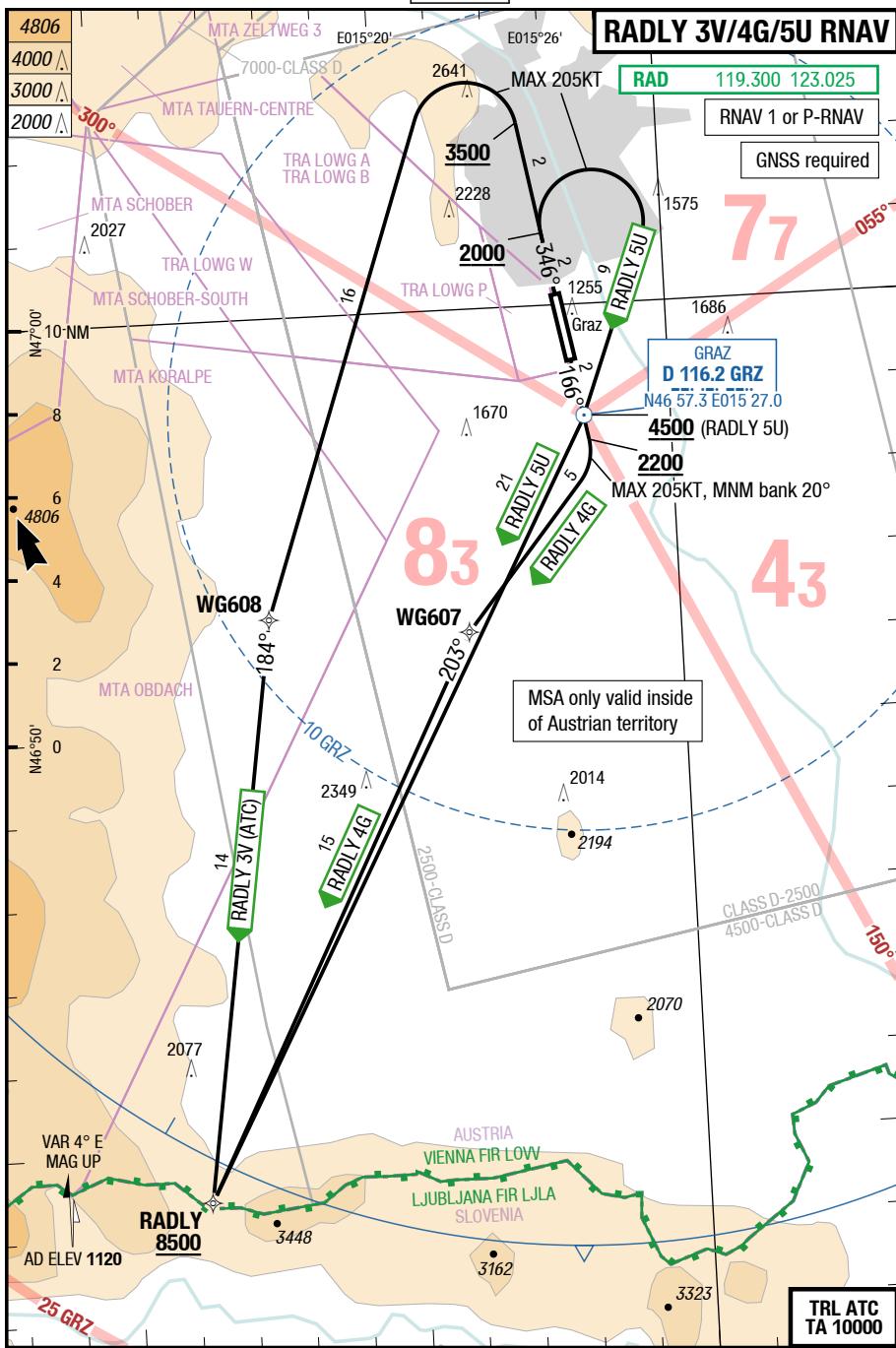
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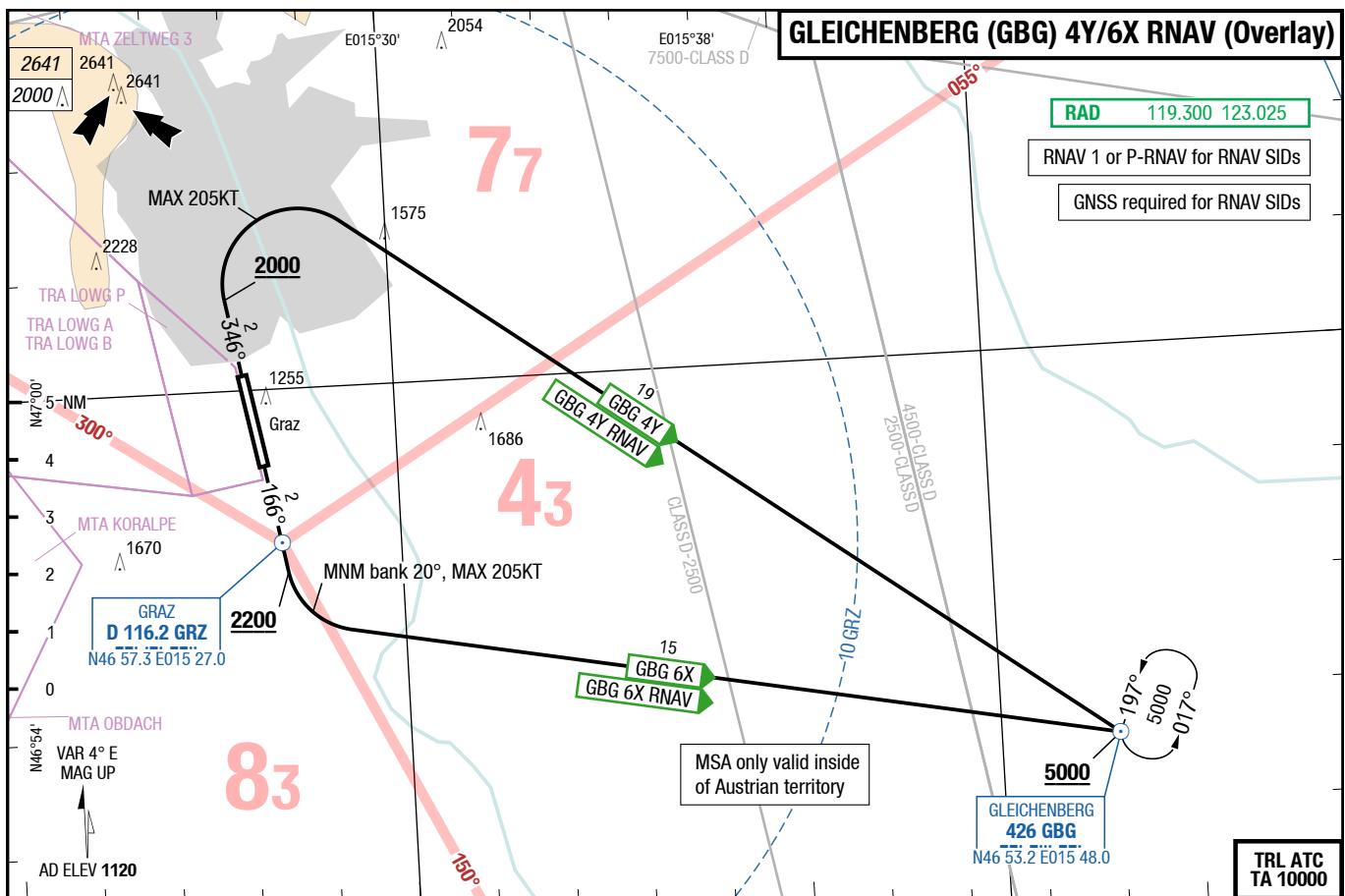
GRZ-LOWG

4-60

RADLY 3V/4G/5U RNAV



Changes: PROC, PROC renumbered, Note

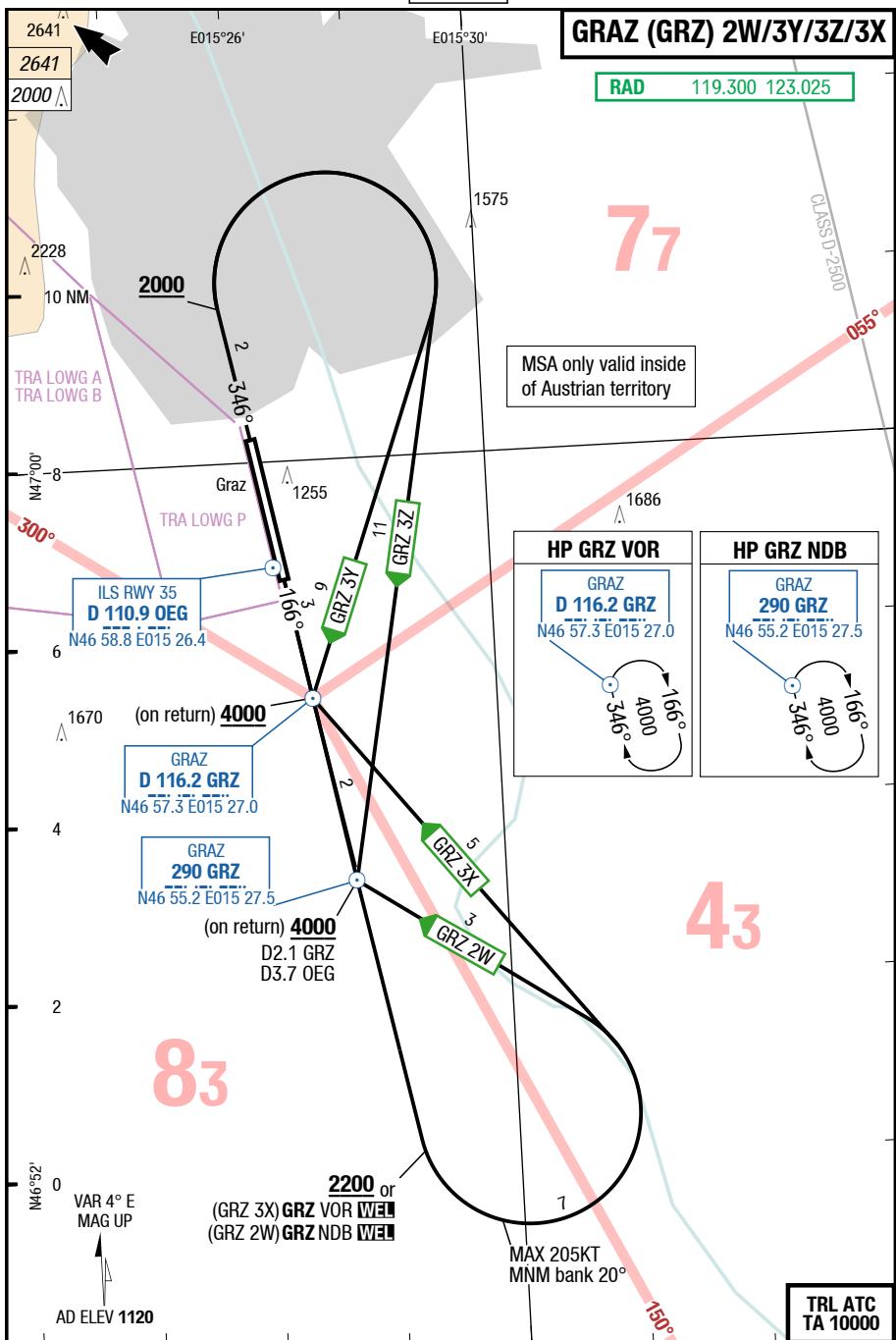


09-AUG-2018

GRZ-LOWG

4-90

GRAZ (GRZ) 2W/3Y/3Z/3X



GRZ-LOWG

5-10

ABIRI 2V/3G/4U RNAV

ABIRI 3G / ABIRI 2V / ABIRI 4U

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
3.5%	ft/MIN	500	600	700	800	900	1000
4.4%	ft/MIN	600	700	900	1000	1100	1300
5.1%	ft/MIN	700	800	1000	1100	1300	1400
5.7%	ft/MIN	700	900	1100	1300	1400	1600
6.0%	ft/MIN	800	1000	1100	1300	1500	1700
7.7%	ft/MIN	1000	1200	1500	1700	1900	2200

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
ABIRI 3G 7.7% to 2700 6.0% thereafter 119.300 ①②③	[K205- ;A2700+ ;R] - WG607 - ABIRI	ABIRI MNM 9000
Runway 35C		
ABIRI 2V (ATC) 5.7% to 3500 3.5% thereafter 119.300 ①②③	[K205- ;A3500+ ;L] - WG608 - ABIRI	ABIRI MNM 9000
ABIRI 4U 5.1% to 4500 4.4% thereafter 119.300 ①②③	[K205- ;A2000+ ;R] - GRZ - WG608 - ABIRI	GRZ MNM 4500 ABIRI MNM 9000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG

5-20

GOLVA 4G/3U RNAV

GOLVA 4G / GOLVA 3U

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
5.1%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
	Runway 17C	
GOLVA 4G 5.1% to 4200 119.300 ①②③	[K205- ;A2200+ ;L] - WG604 [R] - GOLVA	GOLVA MNM 6000
	Runway 35C	
GOLVA 3U 5.1% 119.300 ①②③	[K205- ;A2000+ ;R] - GOLVA	GOLVA MNM 6000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG

5-30

GOTAR 4G/4U RNAV

GOTAR 4G / GOTAR 4U

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
4.4%	ft/MIN	600	700	900	1000	1100	1300
5.1%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
GOTAR 4G 4.4% to 2200 119.300 ①②③	[K205- ;A2200+ ;L] - GOTAR	GOTAR MNM 7000
Runway 35C		
GOTAR 4U 5.1% to 2000 4.4% thereafter 119.300 ①②③	[K205- ;A2000+ ;R] - GOTAR	GOTAR MNM 7000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG

5-40

MILGO 2H/4U/5G RNAV

MILGO 2H / MILGO 5G / MILGO 4U

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
3.7%	ft/MIN	500	600	700	800	900	1100
4.0%	ft/MIN	500	700	800	900	1000	1100
6.2%	ft/MIN	800	1000	1200	1400	1600	1700

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
MILGO 2H 4.0% 119.300 ①②③	[K205- ;A2200+ ;L] - WG603 [L] - MILGO	WG603 MNM 5000 MILGO MNM 10000
MILGO 5G 3.7% 119.300 ①②③	[K205- ;A3500+ ;R] - MILGO	MILGO MNM 10000
Runway 35C		
MILGO 4U 6.2% to 10000 119.300 ①②③	[K205- ;A3500+ ;L] - MILGO	MILGO MNM 10000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG**5-50****MUREG 4G/3U RNAV****MUREG 4G / MUREG 3U**

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
5.1%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
	Runway 17C	
MUREG 4G 119.300 ②③	[K205- ;A2200+ ;L] - <u>WG604</u> [R] - MUREG	MUREG MNM 5000
	Runway 35C	
MUREG 3U 5.1% 119.300 ①②③	[K205- ;A2000+ ;R] - MUREG	MUREG MNM 5000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG**5-60****RADLY 3V/4G/5U RNAV****RADLY 4G / RADLY 3V / RADLY 5U**

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
5.1%	ft/MIN	700	800	1000	1100	1300	1400
5.7%	ft/MIN	700	900	1100	1300	1400	1600

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
RADLY 4G 5.1% 119.300 ①②③	[K205- ;A2200+ ;R] - WG607 [L] - RADLY	RADLY MNM 8500
Runway 35C		
RADLY 3V (ATC) 5.7% to 3500 119.300 ①②③	[K205- ;A3500+ ;L] - WG608 - RADLY	RADLY MNM 8500
RADLY 5U 5.1% to 4500 119.300 ①②③	[K205- ;A2000+ ;R] - <u>GRZ</u> - RADLY	GRZ MNM 4500 RADLY MNM 8500

① If unable to comply with the climb gradients, use GRZ SIDs.
 ② Continue climb gradient of cleared SID when under radar vectoring.
 ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG

5-70

ROPAG 3G/3U RNAV

ROPAG 3G / ROPAG 3U

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100
6.2%	ft/MIN	800	1000	1200	1400	1600	1700

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
ROPAG 3G 4.0% 119.300 ①②③	[K205- ;A2200+ ;L] - ROPAG	ROPAG MNM 8000
Runway 35C		
ROPAG 3U 6.2% 119.300 ①②③	[K205- ;A2700+ ;R] - <u>WG602</u> - ROPAG	WG602 MNM 5500 ROPAG MNM 8000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG**5-80**

GLEICHENBERG (GBG) 4Y/6X RNAV (Overlay)

GLEICHENBERG 4Y / GLEICHENBERG 4Y RNAV / GLEICHENBERG 6X / GLEICHENBERG 6X RNAV

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
5.1%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
Runway 17C		
GLEICHENBERG 6X GBG 6X 119.300 ①②③	at MNM 2200 LT (MNM bank 20°, MAX 205KT) to GBG - join GBG HLDG	GBG MNM 5000
GLEICHENBERG 6X RNAV GBG 6X RNAV 119.300 ①②③	[K205- ;A2200+ ;L] - GBG	GBG MNM 5000
Runway 35C		
GLEICHENBERG 4Y GBG 4Y 5.1% to 2000 119.300 ①②③	at MNM 2000 RT (MAX 205KT) direct GBG - join GBG HLDG	GBG MNM 5000
GLEICHENBERG 4Y RNAV GBG 4Y RNAV 5.1% to 2000 119.300 ①②③	[K205- ;A2000+ ;R] - GBG	GBG MNM 5000

- ① If unable to comply with the climb gradients, use GRZ SIDs.
- ② Continue climb gradient of cleared SID when under radar vectoring.
- ③ If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

GRZ-LOWG

5-90

GRAZ (GRZ) 2W/3Y/3Z/3X

GRAZ 2W / GRAZ 3X / GRAZ 3Y / GRAZ 3Z

RWYs 17C (165°) / 35C (345°)

When instructed, contact Graz RAD.

	GS	120	150	180	210	240	270
4.3%	ft/MIN	600	700	800	1000	1100	1200

DESIGNATOR	ROUTING	ALTITUDES
	Runway 17C	
GRAZ 2W GRZ 2W 119.300 ①②③	at GRZ NDB (D2.1 GRZ/D3.7 OEG) or MNM 2200 , whichever is later, LT (MAX 205KT, MNM bank 20°) direct GRZ NDB - join HLDG pattern	GRZ NDB MNM 4000
GRAZ 3X GRZ 3X 119.300 ①②③	at GRZ VOR or MNM 2200 , whichever is later, LT (MAX 205KT, MNM bank 20°) direct GRZ VOR - join HLDG pattern	GRZ VOR MNM 4000
	Runway 35C	
GRAZ 3Y GRZ 3Y 4.3% to 2000 119.300 ①②③	346° - at MNM 2000 RT direct GRZ VOR - climb in HLDG pattern to reach MFA for the concerned ATS route	GRZ VOR MNM 4000
GRAZ 3Z GRZ 3Z 4.3% to 2000 119.300 ①②③	346° - at MNM 2000 RT direct GRZ NDB - join HLDG pattern	GRZ NDB MNM 4000

① Continue climb gradient of cleared SID when under radar vectoring.

② If early initial turn with reference to terrain is requested by ATC, pilots shall assure terrain clearance up to 3000ft east/3500ft west of aerodrome.

③ Only available for Non-RNAV equipped ACFT.

Effective 16-AUG-2018

09-AUG-2018

GRZ-LOWG

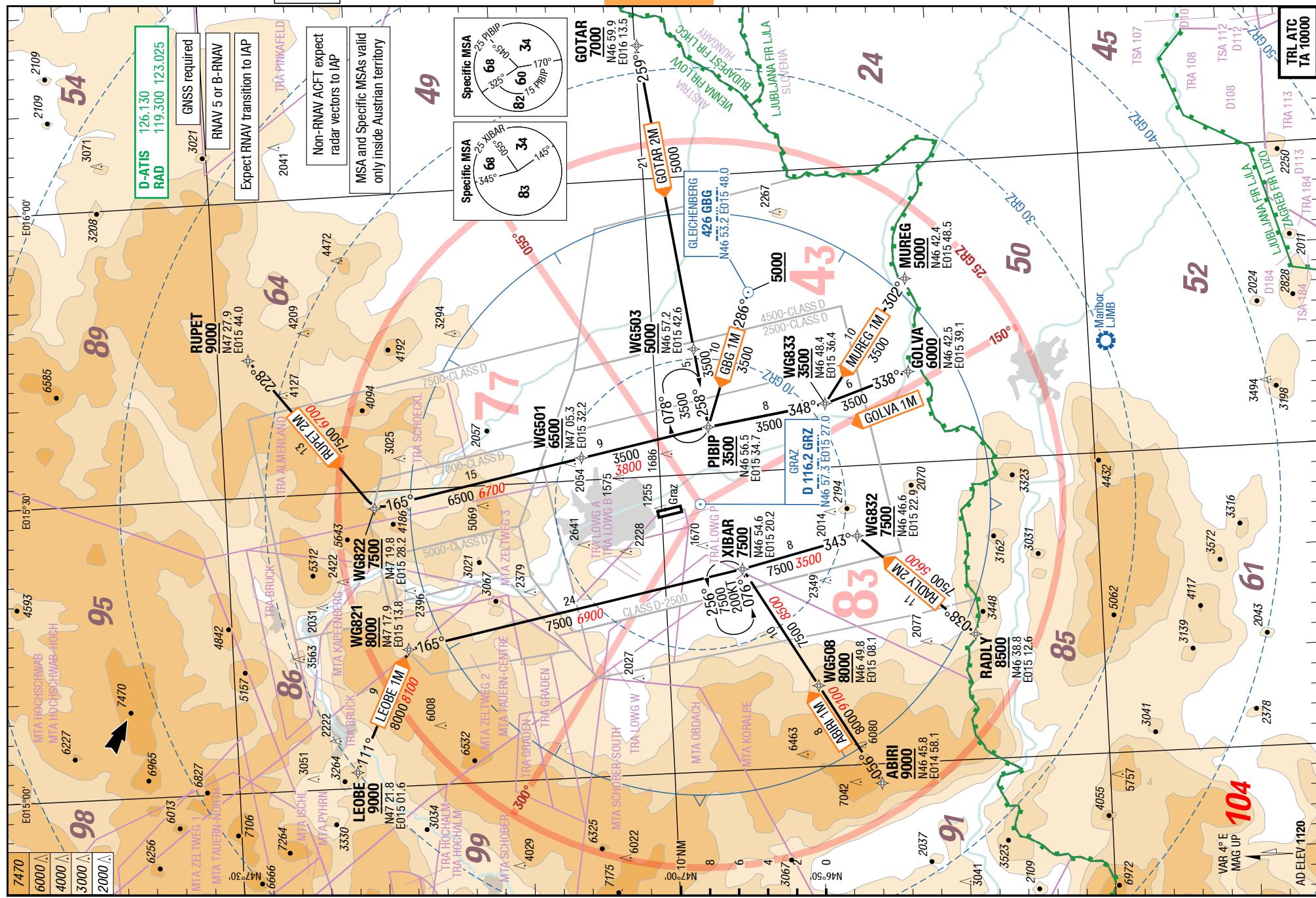
6-10

Austria Graz

RNAV STARS

Graz Austria

RNAV STARs



Changes: MTCA, MEA, HLDG, SUAs, PROC renumbered, Note

GRZ-LOWG

7-10

Austria Graz

IAC

Graz Austria

NIL

**RNAV
Transitions
to IACs
17C/35C**

RNAV Transitions to IACs 17C/35C

RNAV Transitions to IACs 17C/35

TRL ATC
TA 10000

Effective 16-AUG-2018

09-AUG-2018

GRZ-LOWG

7-30

Austria Graz

IAC

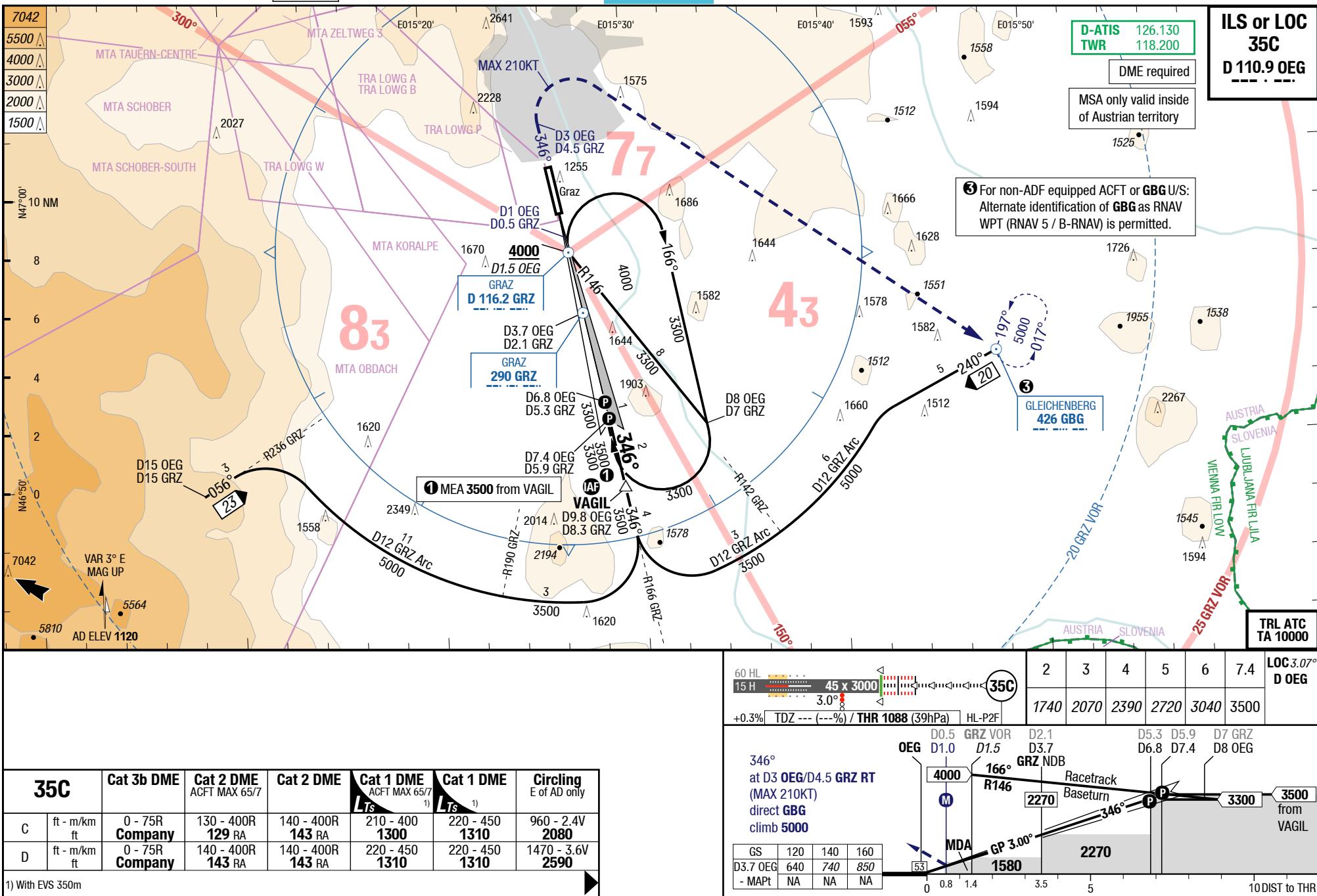
IAC

ILS or LOC 35C

Graz Austria

IAC

ILS or LOC 35C

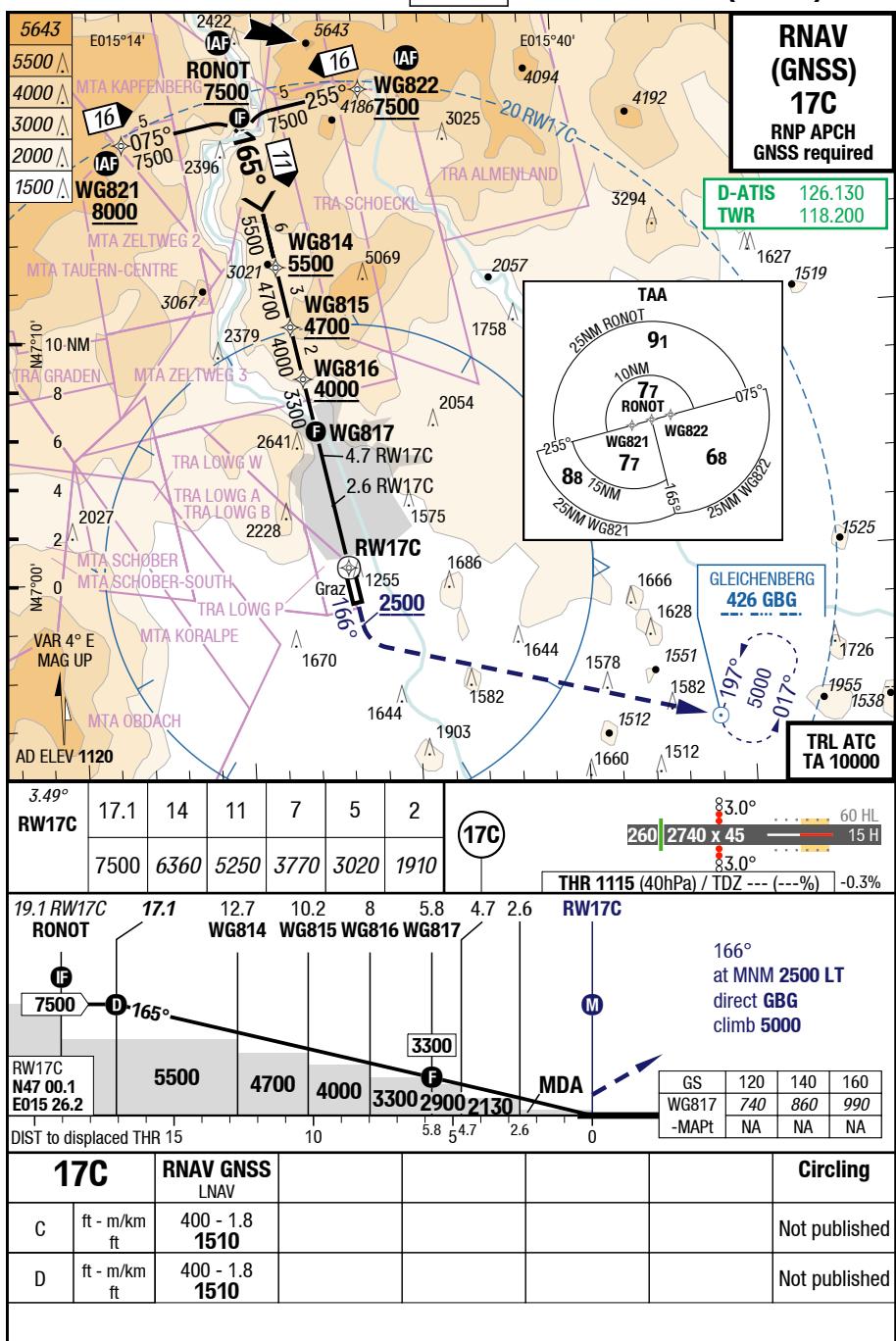


GRZ-LOWG

7-50

RNAV (GNSS) 17C

IAC



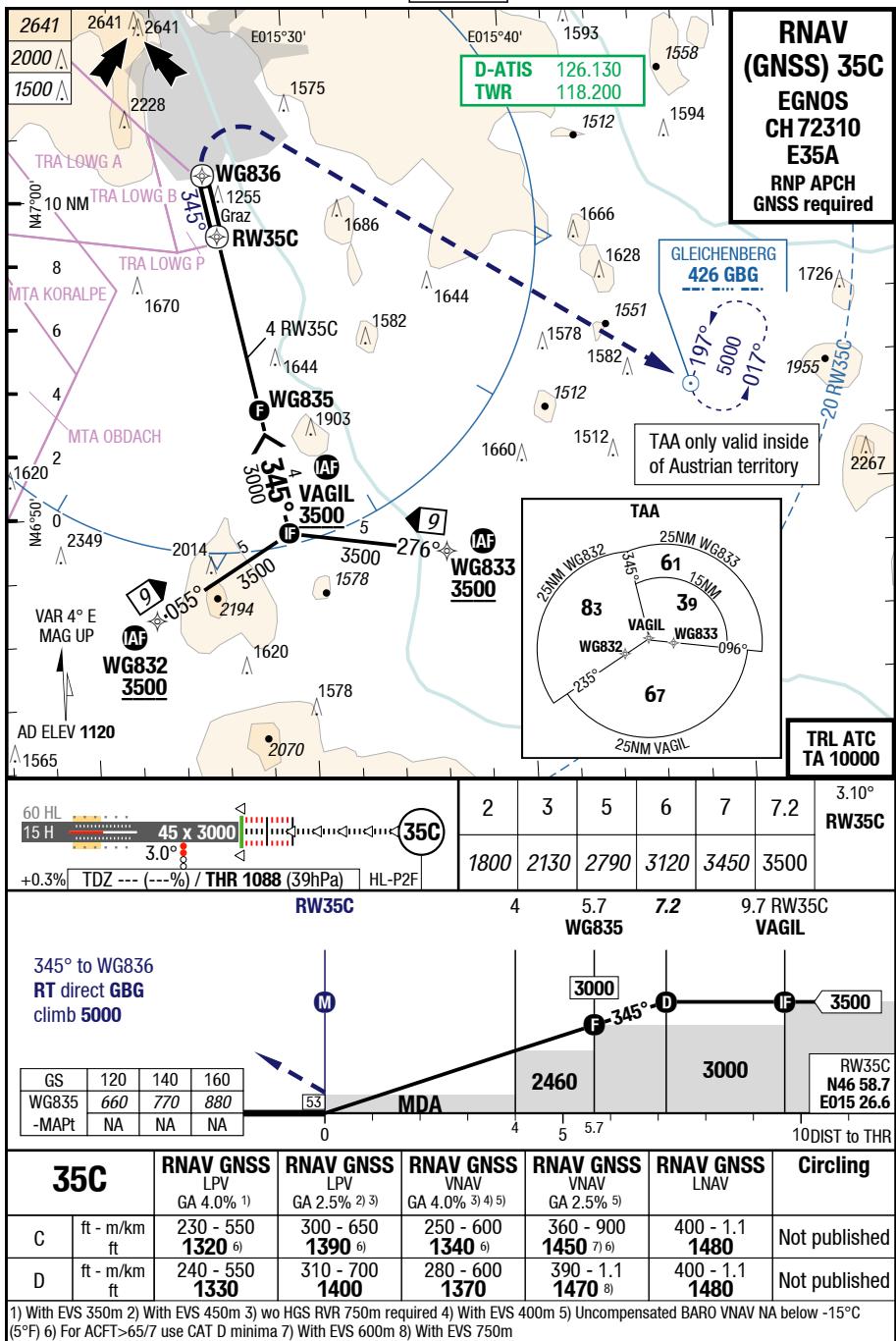
Changes: FREQ

14-JUN-2018

GRZ-LOWG

7-60

RNAV (GNSS) 35C



Changes: FREQ

Effective 21-JUN-2018

14-JUN-2018

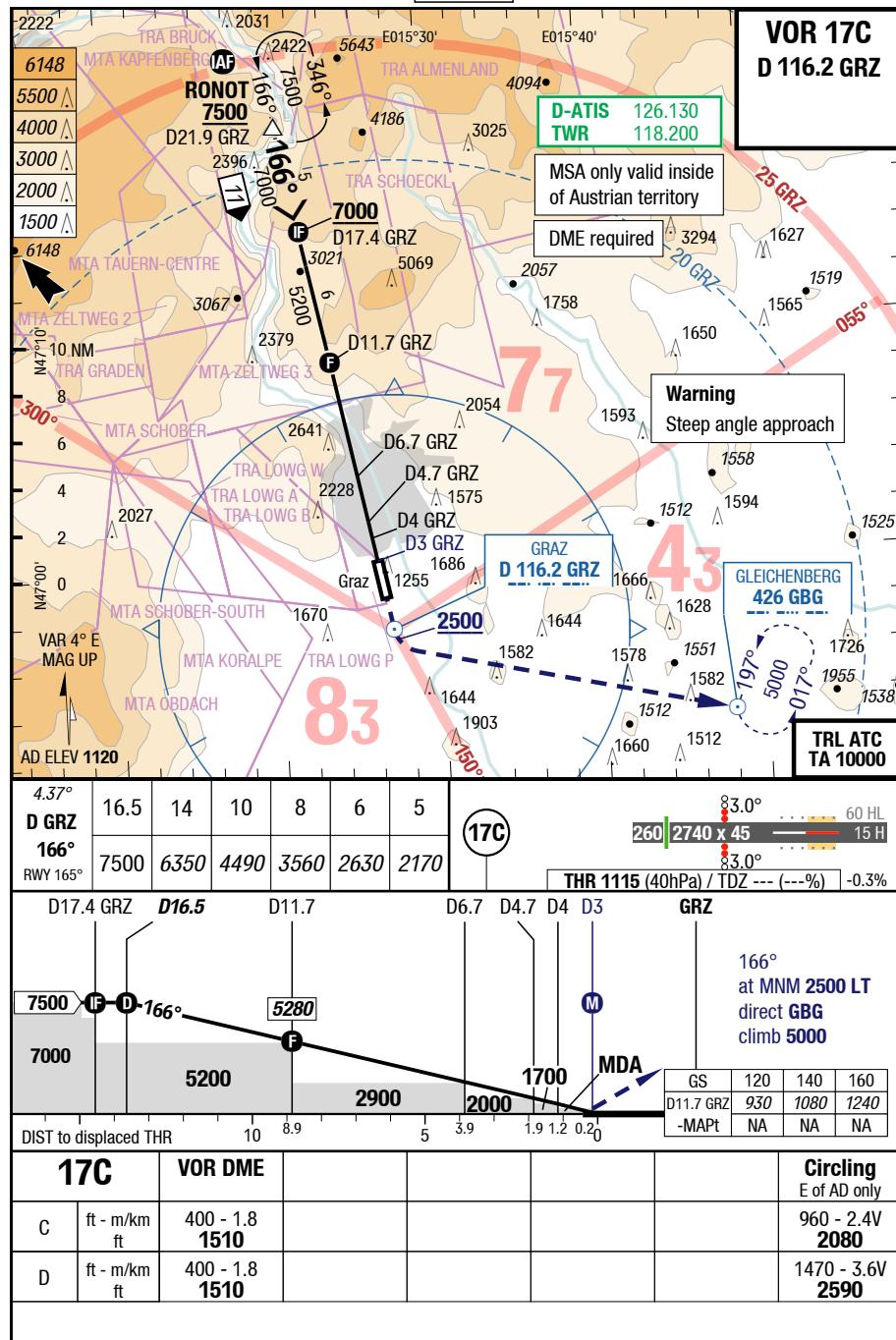
GRZ-LOWG

Austria Graz

VOR 35C

VOR 17C

7-70



Graz Austria

VOR 35C

VOR 17C

IAC

IAC

Effective 21-JUN-2018

14-JUN-2018

GRZ-LOWG

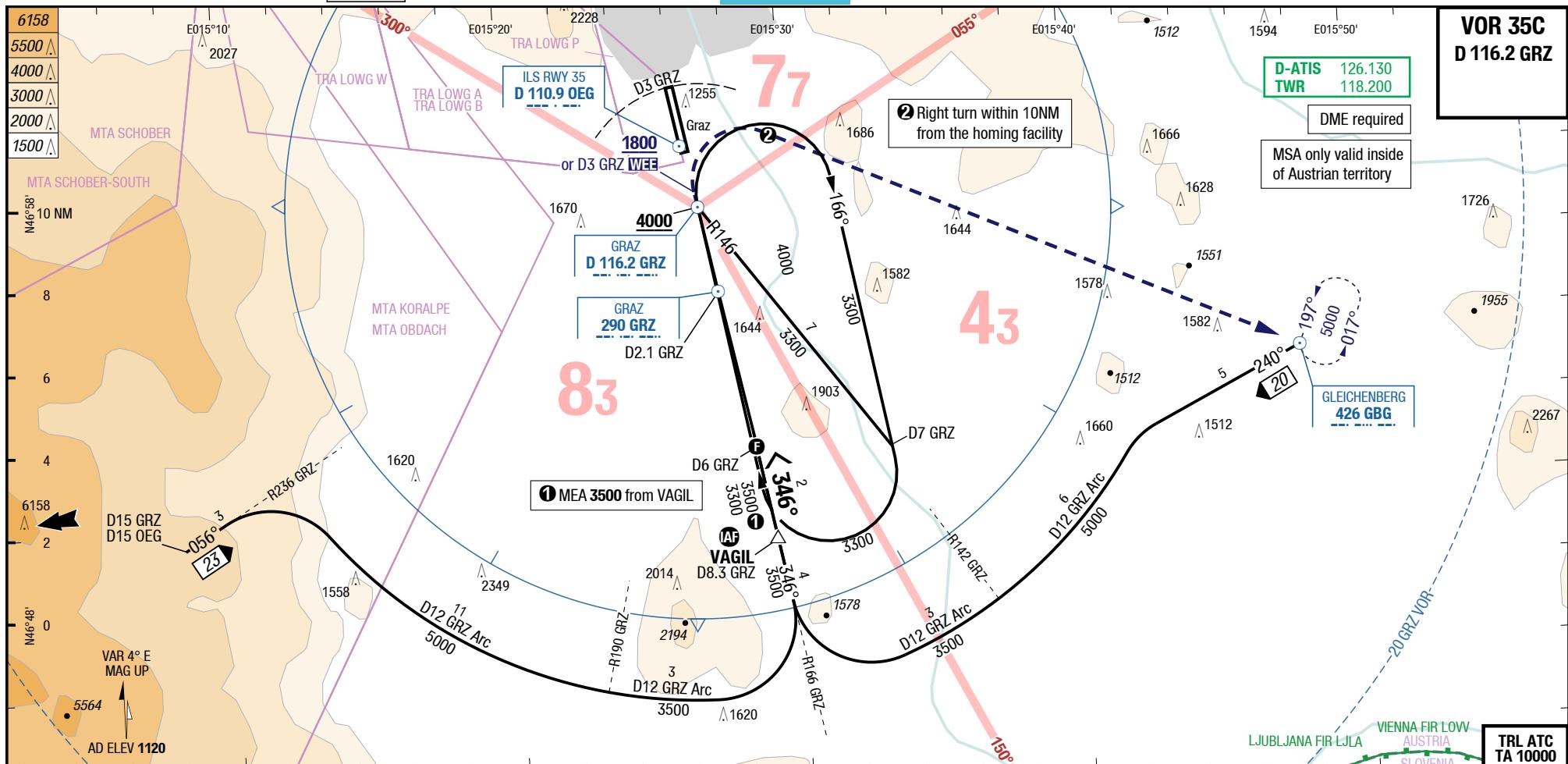
7-80

Austria Graz

VOR 35C

Graz Austria

VOR 35C



35C		VOR DME					Circling E of AD only
C	ft - m/km ft	420 - 1.2 1500					960 - 2.4V 2080
D	ft - m/km ft	420 - 1.2 1500					1470 - 3.6V 2590

346°
at MNM 1800 or D3 GRZ
whichever is earlier,
RT direct GBG
climb 5000

GS	120	140	160
D2.1 GRZ	670	780	890
- MAPt	NA	NA	NA

A vertical profile diagram for GRZ VOR. The vertical axis shows altitude in feet (ft) from 0 to 4000. The horizontal axis shows distance in nautical miles (NM) from 0 to 10. Key points include:

- GRZ VOR** at 0 ft, 0 NM.
- D2.1** at 1000 ft, 2.1 NM.
- GRZ NDB** at 1000 ft, 4.1 NM.
- 166° Racetrack** at 1000 ft, 5.5 NM.
- R146 P** at 1000 ft, 6.5 NM.
- D5.1** at 1000 ft, 7.5 NM.
- D5.7** at 1000 ft, 8.5 NM.
- D6** at 1000 ft, 9.5 NM.
- D7 GRZ** at 1000 ft, 10.0 NM.

Other labels include **4000** at 0 NM, **from VAGIL**, and **3500** at 10.0 NM.

Effective 21-JUN-2018

14-JUN-2018

Austria Graz

GRZ-LOWG

7-90

NDB 35C

Changes: FREQ

GRZ-LOWG

7-110

WxMinima Overflow

35C		Cat 1 DME ACFT MAX 65/7 1)	Cat 1 DME 1)	LOC DME			
C	ft - m/km ft	210 - 550 1300	220 - 550 1310	340 - 800 1420			
D	ft - m/km ft	220 - 550 1310	220 - 550 1310	340 - 800 1420			

1) With EVS 350m

15-FEB-2018

GRZ-LOWG

Austria Graz

MRC

Graz Austria

MRC

MRC

8-10

