

27-APR-2017

EML-LSME

1-10

AOI

AOI

GENERAL**Operational Hours****ATS Hours:** MON-FRI 0615-1105‡, 1210-1605‡**Airport Information****RFF:** Not published**Fuel:** Not published**PCN:** RWY 04/22: 62**Customs:** Not published**Operation****TWY Restriction**

TWYs 10m / 33ft, except TWY E and H.

ARRIVAL**Speed**

MAX IAS 250KT below FL100.

Communication**COM Failure**

Proceed via STAR to RONIX. At last received or acknowledged EAT or, if no EAT has been received or acknowledged at FPL ETA, descend in the RONIX HLDG pattern to 5000ft. Carry out a STD INSTR APCH for the RWY in use.

INSTR APCH

RWY 04

SRA: Shortest turn to HDG 230° and climb VMC on top, call on STBY COM.

PAR: Turn left to HDG 230° and climb VMC on top, call on STBY COM.

INSTR APCH

RWY 22

SRA/PAR: Shortest turn to HDG 230° and climb VMC on top, call on STBY COM.

DEPARTURE**| Take-off Minima**

RWY		04/22	
All ACFT	ft - m/km	0 - 400V	HJ only
		0 - 800V	HN

Speed

MAX IAS 250KT below FL100.

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EML-LSME**1-20****AOI****AOI****DEPARTURE****Communication****COM Failure**

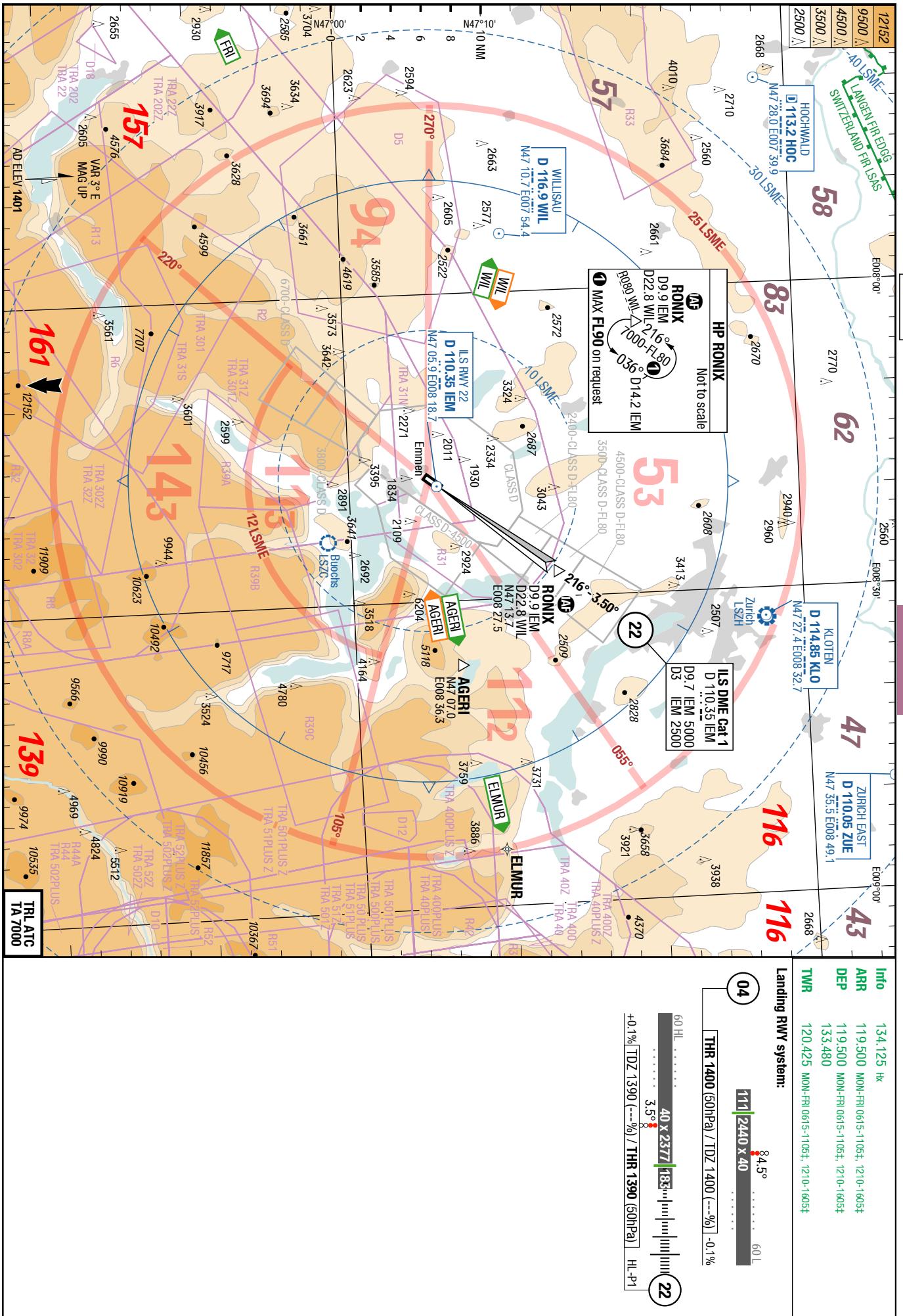
SID RWY 04/22

WIL DEP: Cross WIL at last assigned and acknowledged FL; then continue climb to FPL FL.

AGERI DEP: Remain in the RONIX HLDG for one pattern; then proceed via ME101 to AGERI and FPL route. When leaving RONIX HLDG pattern climb to FPL FL.

RNAV SID RWY 04/22

Cross ELMUR / FRI at last assigned and acknowledged FL but not below MCA. Continue climb to FPL FL.



Changes: Completely revised

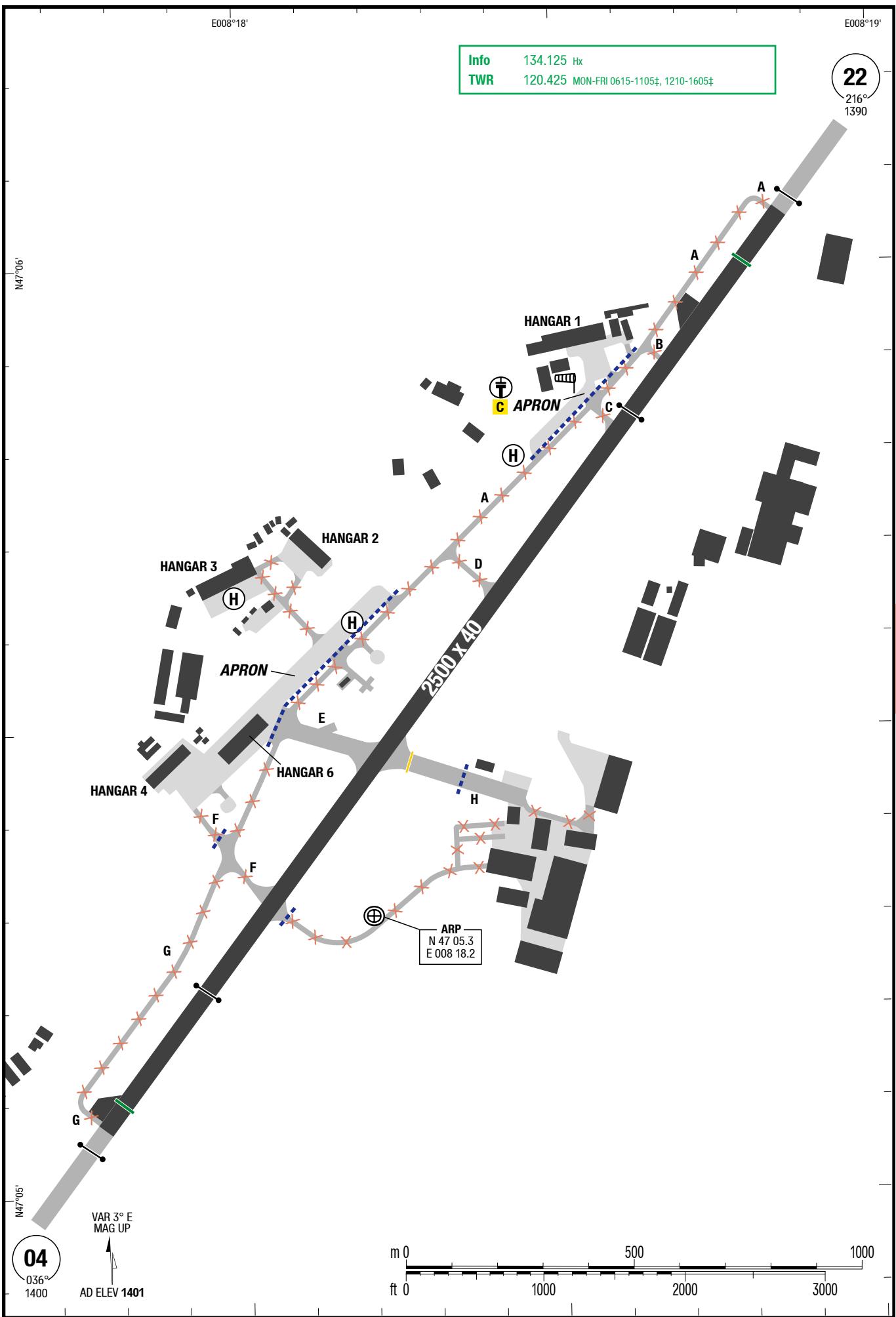
21-JUN-2018

EML-LSME

Switzerland Emmen

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Emmen Switzerland



21-JUN-2018

EMI-LSME

Switzerland Emmen

RNAV SIDs RWY 22

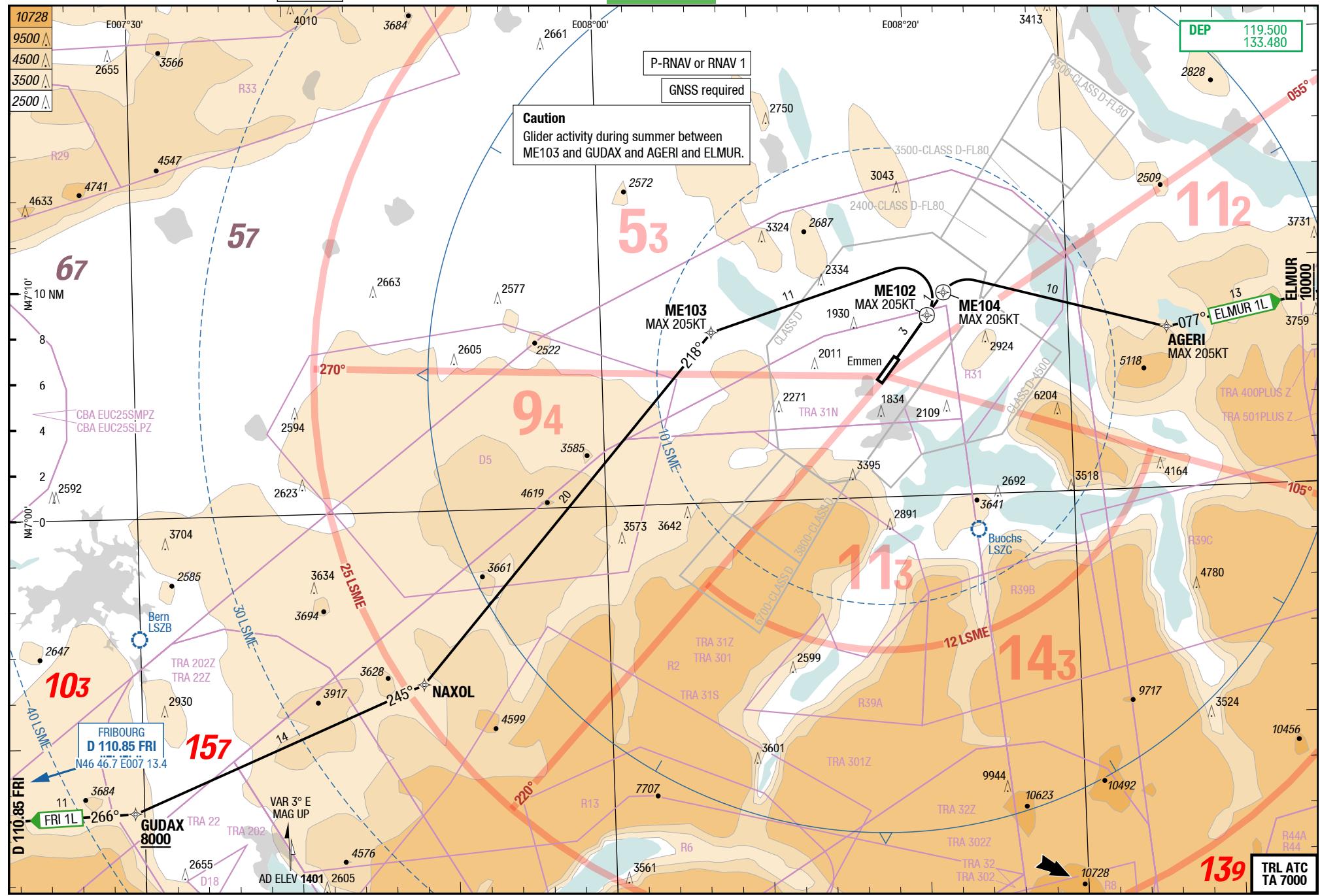
Emmen Switzerland

RNAV SIDs RWY 22

4-10

SID

SID



21-JUN-2018

EML-LSME

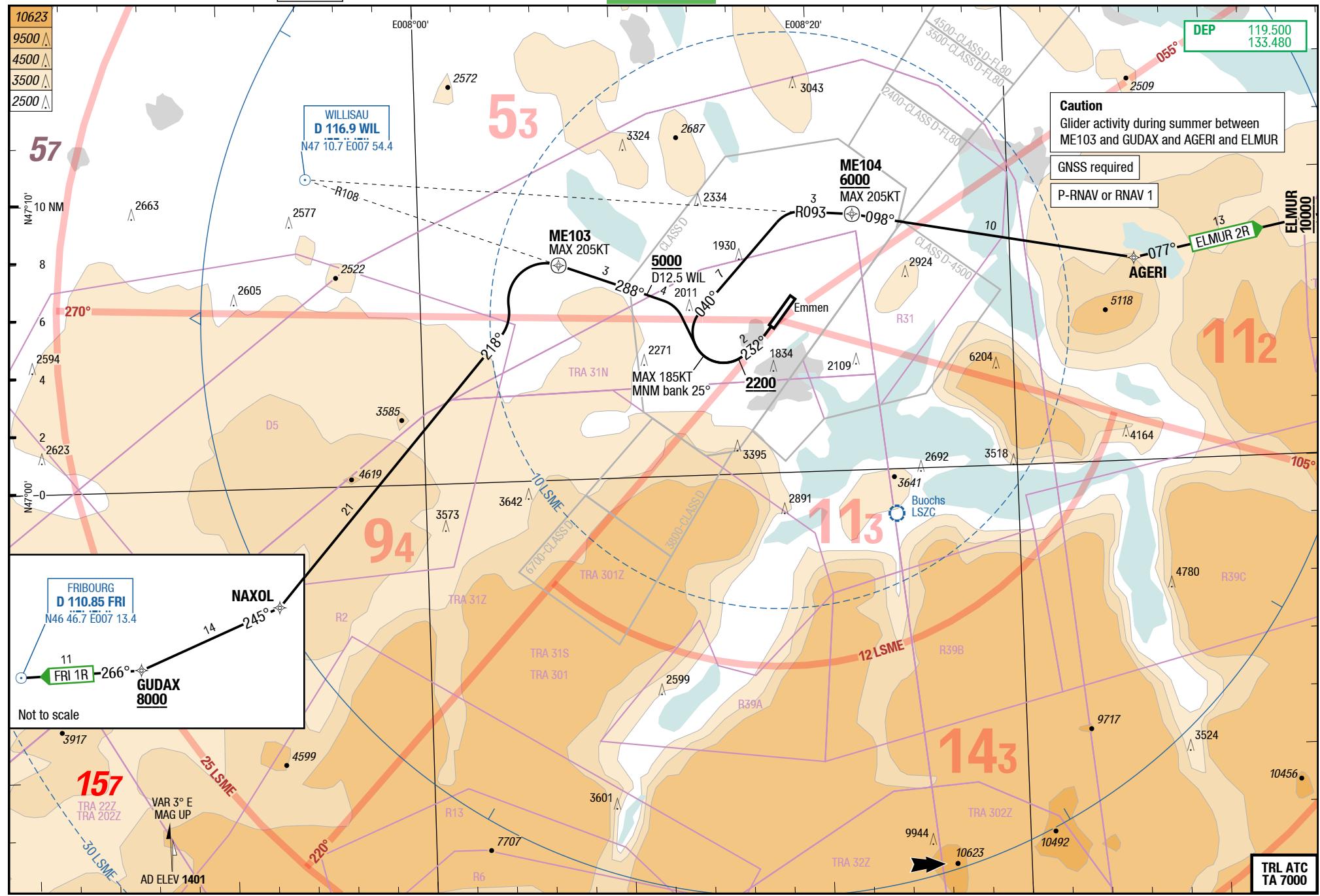
Switzerland **Emmen**

RNAV SIDs RWY 22

Emmen Switzerland

RNAV SIDs RWY 22

4-20



Changes: Track, FREQ, SUAs, VAR, Note, OBST

21-JUN-2018

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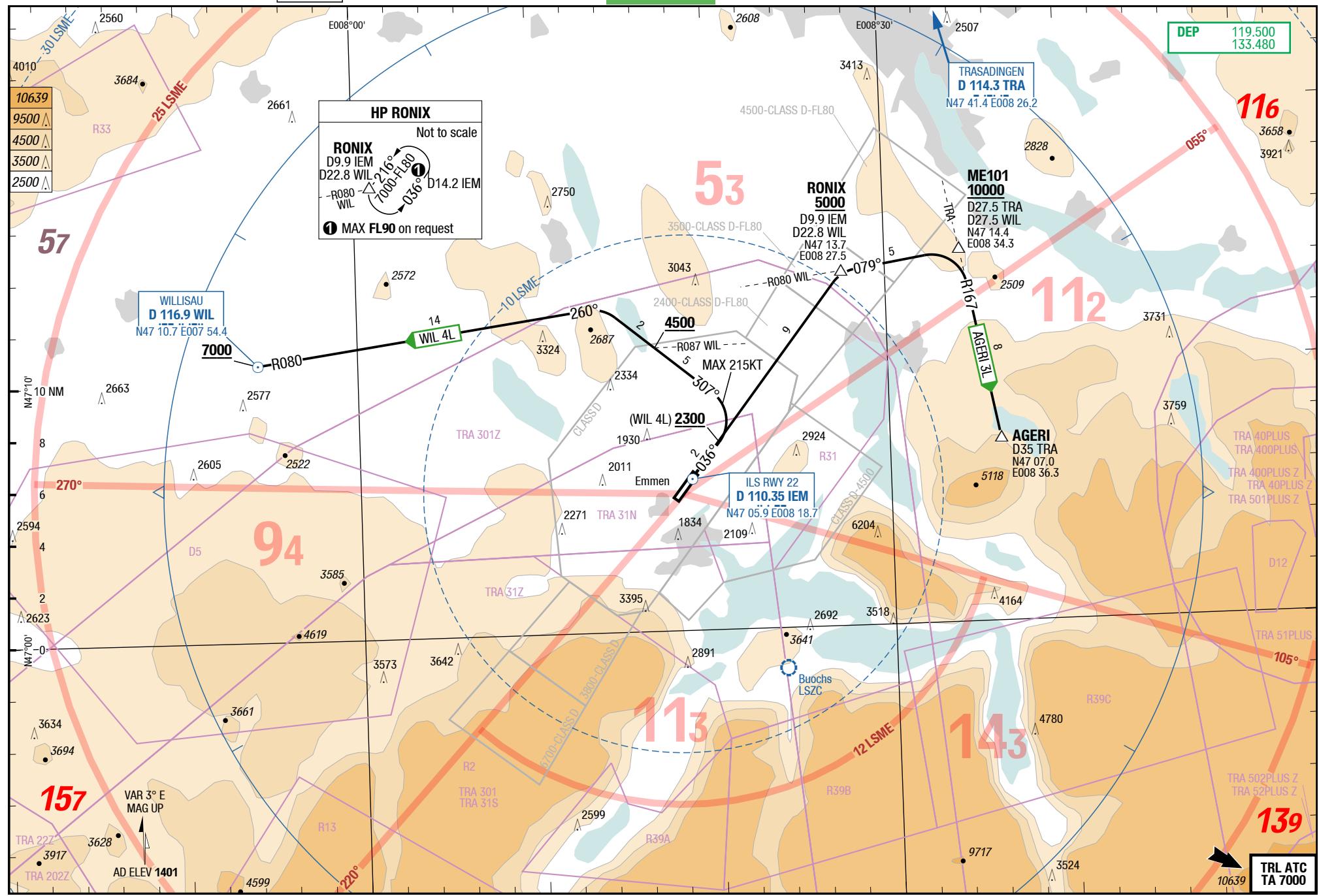
Switzerland Emmen

SIDs RWY 04

Emmen Switzerland

SIDs RWY 22

4-30



Changes: FREQ, Track, SUAs, VAR, OBST, Editorial

21-JUN-2018

Switzerland Emmen

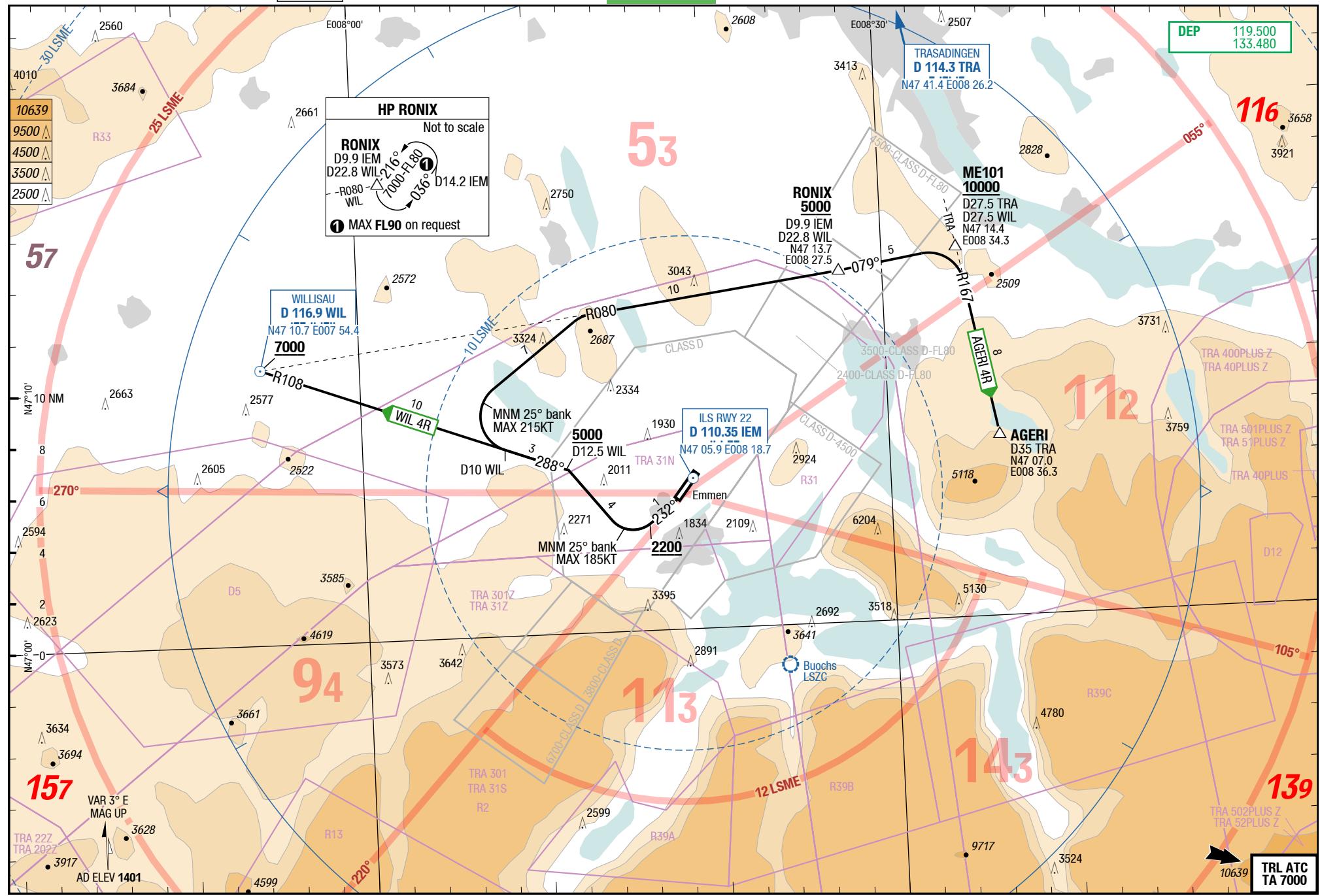
EML-LSME

4-40

SIDs RWY 22

Emmen Switzerland

SIDs RWY 22



Changes: Track, ALT, FREQ, VAR, SUAs, OBST, Editorial

21-JUN-2018

EML-LSME**5-10****RNAV SIDs RWY 04****ELMUR 1L / FRIBOURG 1L**

RWY 04 (036°)

	GS	120	150	180	210	240	270
	7.0%	ft/MIN	900	1100	1300	1500	1800

DESIGNATOR	ROUTING	ALTITUDES
	Runway 04	
ELMUR 1L 7.0% to 4400 7.0% to 5300 119.500 ①②	DCT ME104 [K205- ;R] - DCT AGERI [K205-] - ELMUR	ELMUR MNM 10000 Initial climb FL80
FRIBOURG 1L FRI 1L 7.0% to 2600 119.500 ①	DCT ME102 [K205-; L] - DCT ME103 [K205-] - NAXOL - GUDAX - FRI	GUDAX MNM 8000 Initial climb FL80

① Close-in obstacle: left and right of centerline up to 1600ft after end of RWY 04.

② Climb gradient 7.0% to 5300ft due to airspace restrictions.

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EML-LSME

5-20

RNAV SIDs RWY 22

ELMUR 2R / FRIBOURG 1R

RWY 22 (216°)

	GS	120	150	180	210	240	270
7.3%	ft/MIN	900	1200	1400	1600	1800	2000

DESIGNATOR	ROUTING	ALTITUDES
	Runway 22	
ELMUR 2R 7.3% to 3600 119.500 ①②	RT 232° - at MNM 2200 RT (MAX 185KT, MNM bank 25°) 040° intercept R093 WIL to <u>ME104 [K205-]</u> - AGERI - ELMUR	ME104 MNM 6000 ELMUR MNM 10000 <u>Initial climb FL80</u>
FRIBOURG 1R FRI 1R 7.3% to 3100 119.500 ①③	RT 232° - at MNM 2200 RT (MAX 185KT, MNM bank 25°) intercept R108 WIL inbound to <u>ME103 [K205-]</u> - NAXOL - GUDAX - FRI	D12.5 WIL MNM 5000 GUDAX MNM 8000 <u>Initial climb FL80</u>

- ① Close-in obstacle: left of centerline up to 1500ft shortly after end of RWY 22.
- ② After ME104 RNAV equipment necessary.
- ③ After ME103 RNAV equipment necessary.

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EML-LSME**5-30****SIDs RWY 04****AGERI 3L / WILLISAU 4L**

RWY 04 (036°)

	GS	120	150	180	210	240	270
3.9%	ft/MIN	500	600	800	900	1000	1100
4.7%	ft/MIN	600	800	900	1000	1200	1300

DESIGNATOR	ROUTING	ALTITUDES
	Runway 04	
AGERI 3L 3.9% to 2100 119.500 ①	intercept LOC back course 036° IEM - at RONIX RT 079° - at ME101 RT intercept R167 TRA to AGERI	RONIX MNM 5000 ME101 MNM 10000 Initial climb FL80
WILLISAU 4L WIL 4L 4.7% to 3800 119.500 ①②	intercept LOC back course 036° IEM - at MNM 2300 LT (MAX 215KT) 307° intercept R080 WIL to WIL	R087 WIL MNM 4500 WIL MNM 7000 Initial climb FL80

① Close-in obstacle: left and right of centerline up to 1600ft shortly after end of RWY 04.

② Turns prior to the DER are not permitted.

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EML-LSME**5-40****SIDs RWY 22****AGERI 4R / WILLISAU 4R**

RWY 22 (216°)

	GS	120	150	180	210	240	270
	7.3%	ft/MIN	900	1200	1400	1600	1800
							2000

DESIGNATOR	ROUTING	ALTITUDES
	Runway 22	
AGERI 4R 7.3% to 2100 119.500 ①②	RT 232° - at MNM 2200 RT (MNM 25° bank, MAX 185KT) intercept R108 WIL inbound - at D10 WIL RT (MNM 25° bank, MAX 215KT) intercept R080 WIL - at RONIX 079° to ME101 - intercept R167 TRA to AGERI	D12.5 WIL MNM 5000 RONIX MNM 5000 ME101 MNM 10000 Initial climb FL80
WILLISAU 4R WIL 4R 7.3% to 2600 119.500 ①②	RT 232° - at MNM 2200 RT (MNM 25° bank, MAX 185KT) intercept R108 WIL to WIL	D12.5 WIL MNM 5000 WIL MNM 7000 Initial climb FL80

① Close-in obstacle: left of centerline up to 1500ft shortly after end of RWY 22.

② Turns prior to the DER are not permitted.

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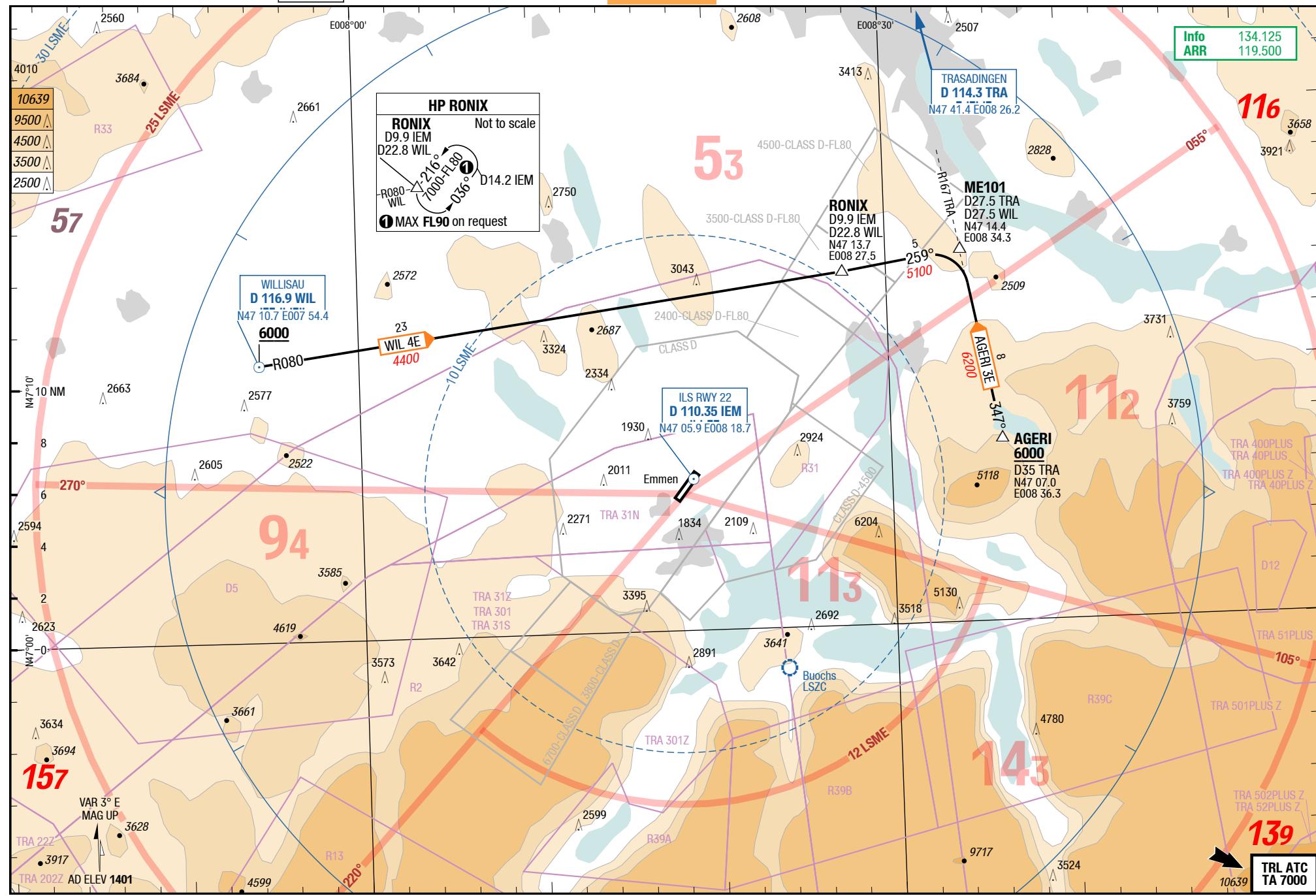
Switzerland Emmen

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Emmen Switzerland

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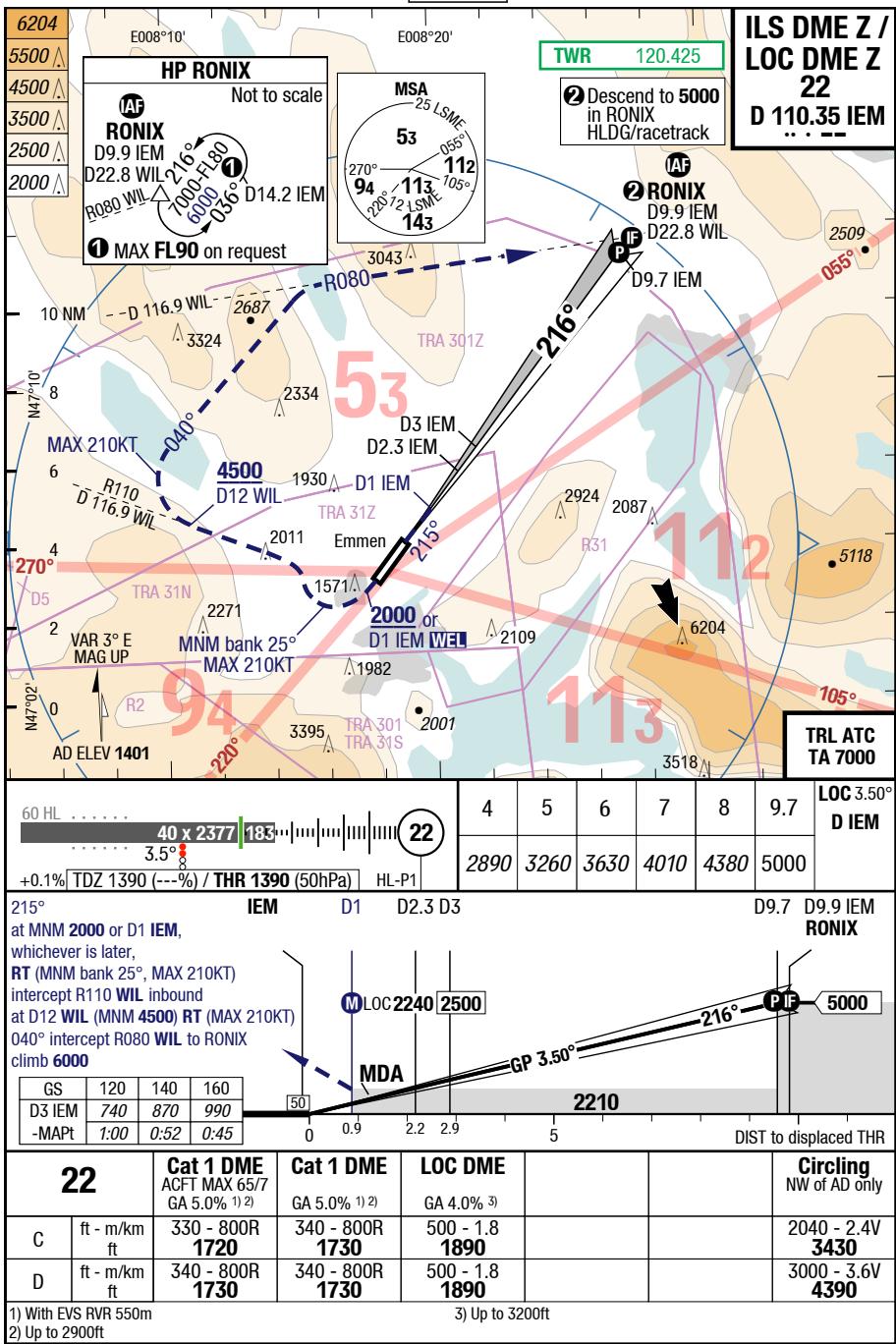
6-10



EML-LSME

7-10

ILS DME Z / LOC DME Z 22



Chances about title: D

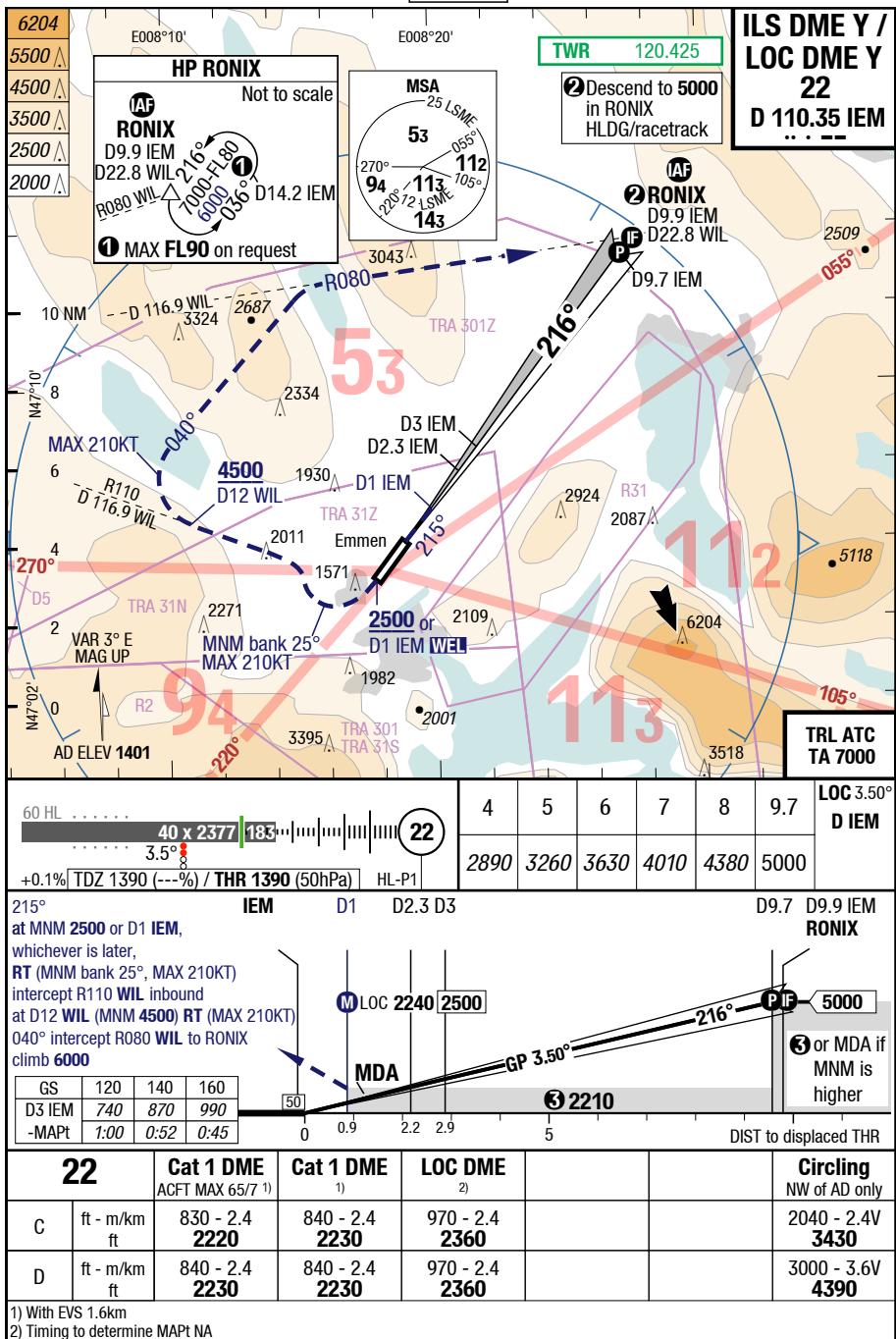
Changes: chart title, D

3) Up to 3200ft

EML-LSME

7-20

ILS DME Y / LOC DME Y 22



1) With EVS 1.6km

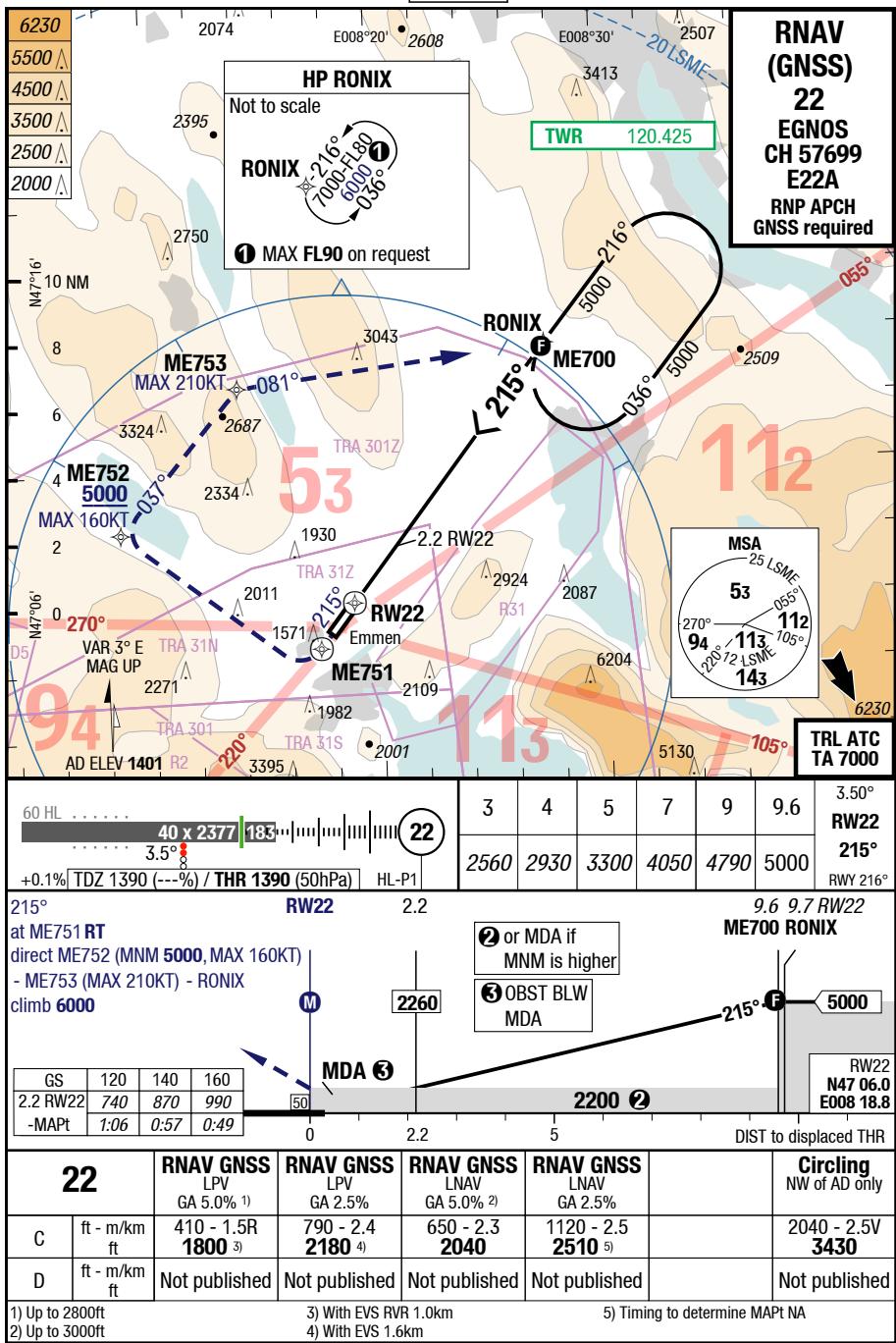
2) Timing to determine MAPt NA

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EMI-LSME

7-30

RNAV (GNSS) 22



Changes: Track, ALT, VAR, SUAs, Note, Editorial