

## GENERAL

## Operational Hours

ATS Hours: H24

AD Operator Hours: HO

## Airport Information

RFF: CAT 5; CAT 7 AVBL, NON SKED required CAT O/R

Fuel: 0400-2000±, other times PN 1HR.

PCN: RWY 15/33: 80/F/A/W/T

Customs: HO 4HRs PN

## Operation

## TWY Restriction

TWY H width 18m / 59ft.

TWY J width 15m / 49ft.

TWY S width 8m / 26ft.

## Communication

## COM Failure

RNAV STAR has been given and acknowledged: Follow STAR to the respective RWY and execute IAP.

## Arrival Procedure

**Noise Abatement Procedure:** Avoid overflying built-up area below 2000ft.**Non-standard GP intercept position on RWY 33**

GP intercepts RWY 33 at 332m / 1088ft after landing threshold.

Remaining LDG DIST beyond GP is 2468m / 8098ft.

## DEPARTURE

## Take-off Minima

RWY		33	
All ACFT	ft - m/km	0 - 400R/400V	-
RWY		15	
All ACFT	ft - m/km	0 - 400R/400V	MNM climb gradient 3.9% up to 530

## Departure Procedure

**Noise Abatement Procedure**

After TKOF climb as rapidly as possible to at least 2000ft above AD ELEV. Published SID routes are also MNM noise routings.

**Intersection TKOF**

Intersection TKOF AVBL upon PIC's REQ.

## De-icing

AVBL MON-FRI 0600-1500±

**19-APR-2018**

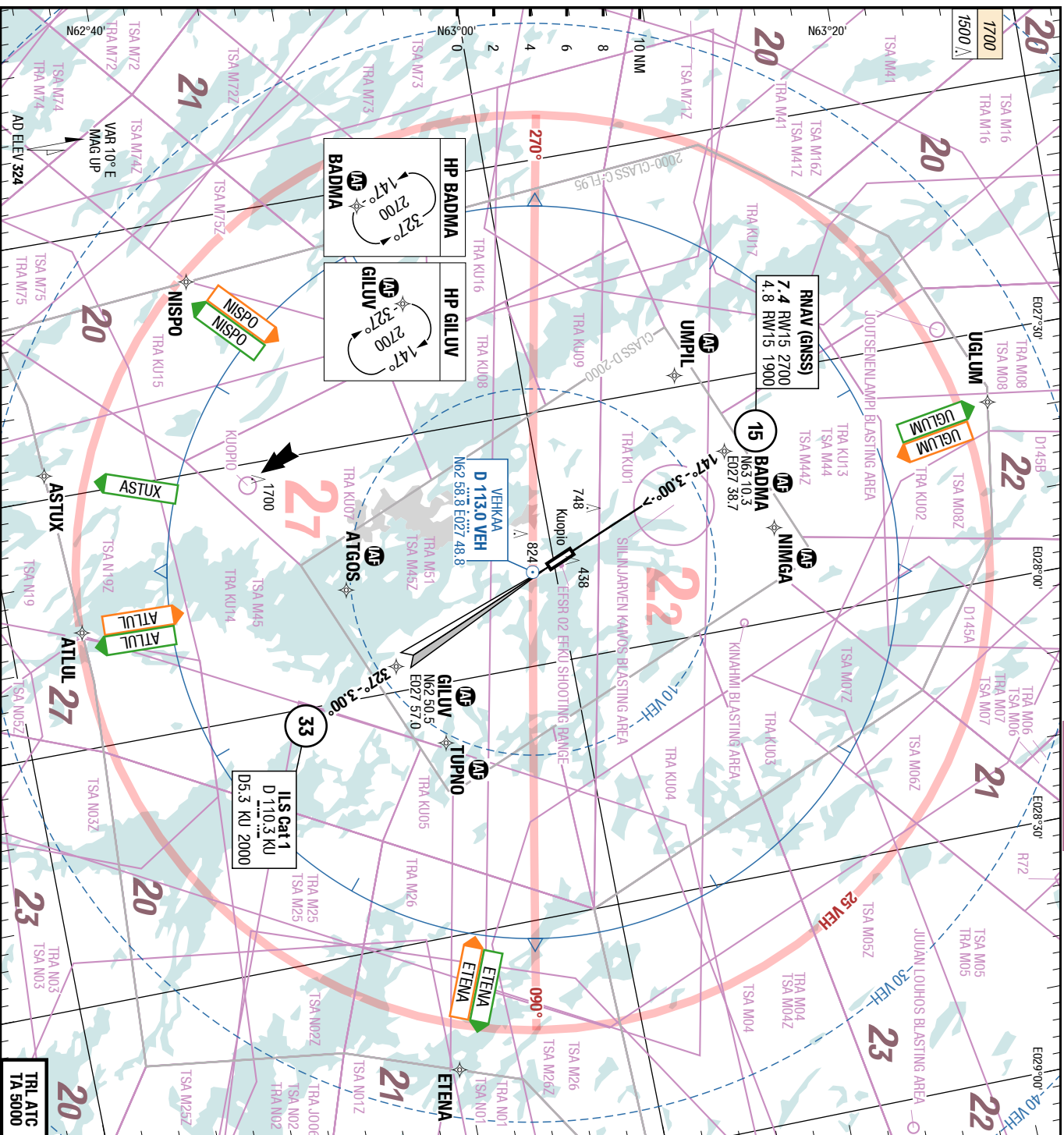
2-10



AGC  
AFC

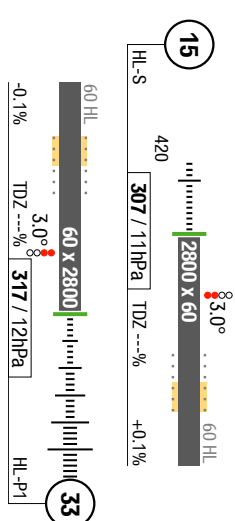
## AFC

**AGC**  
**AFC**

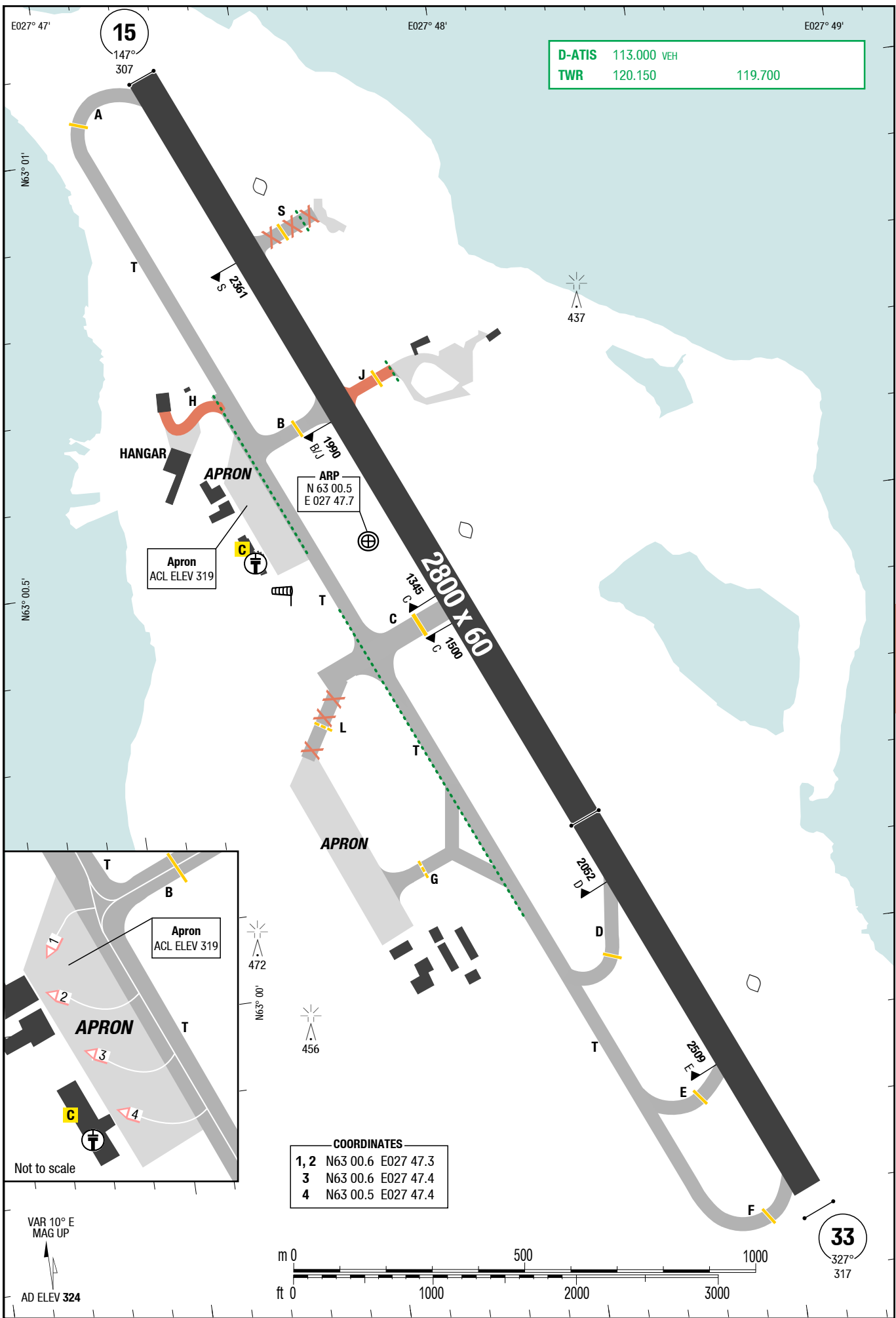


D-ATIS	113.000	VEH	119.700	H0
ARR	122.850	H0		
RAD	130.600		119.700	
TWR	120.150		119.700	

**Landing RWY system:**



D-ATIS	113.000 VEH	
TWR	120.150	119.700



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RNAV SIDs RWY 33

## RNAV SIDs RWY 15

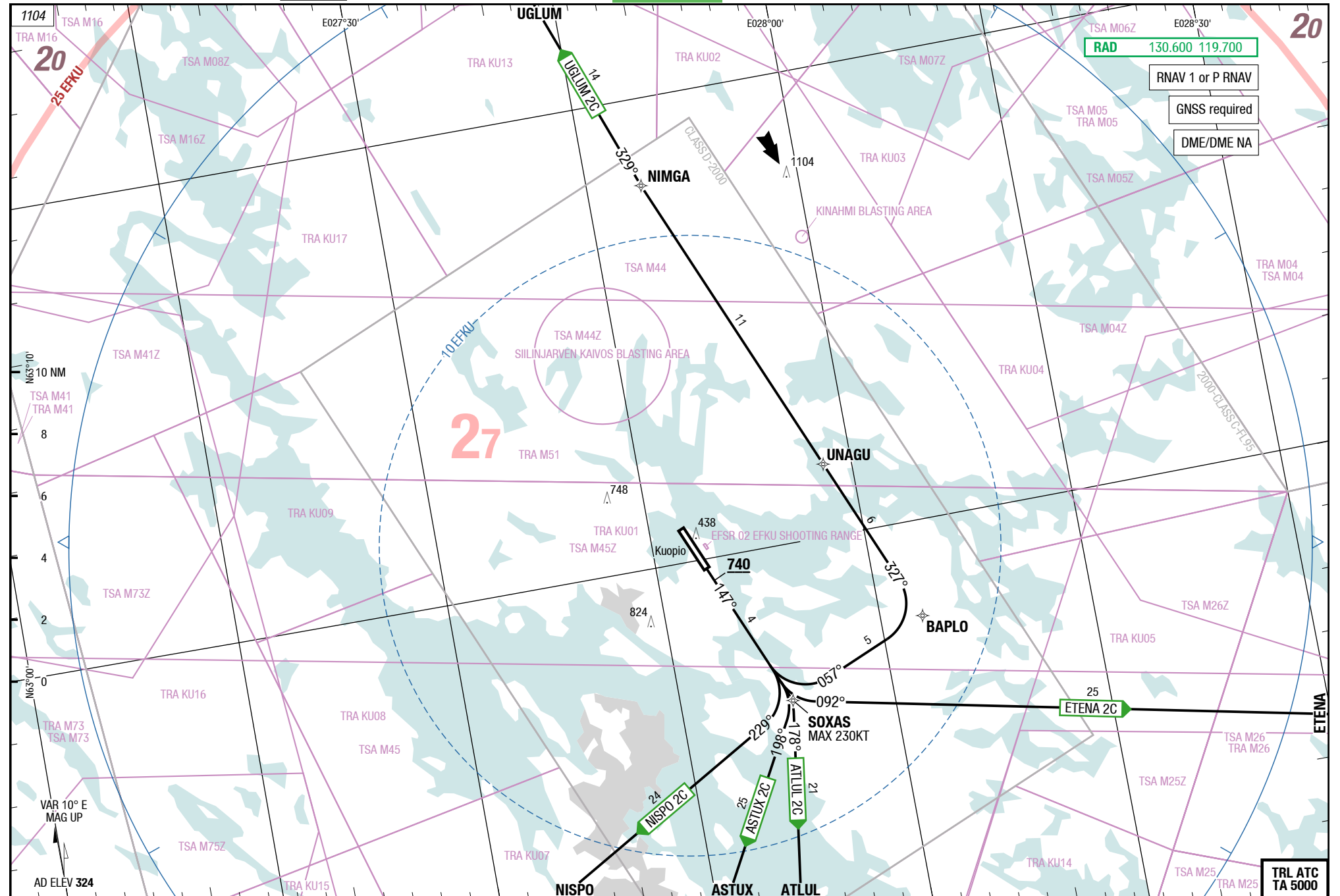
SID

SID

RNAV SIDs RWY 33

## RNAV SIDs RWY 15

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Effective 26-APR-2018

19-APR-2018

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4-20

RNAV SIDs RWY 33

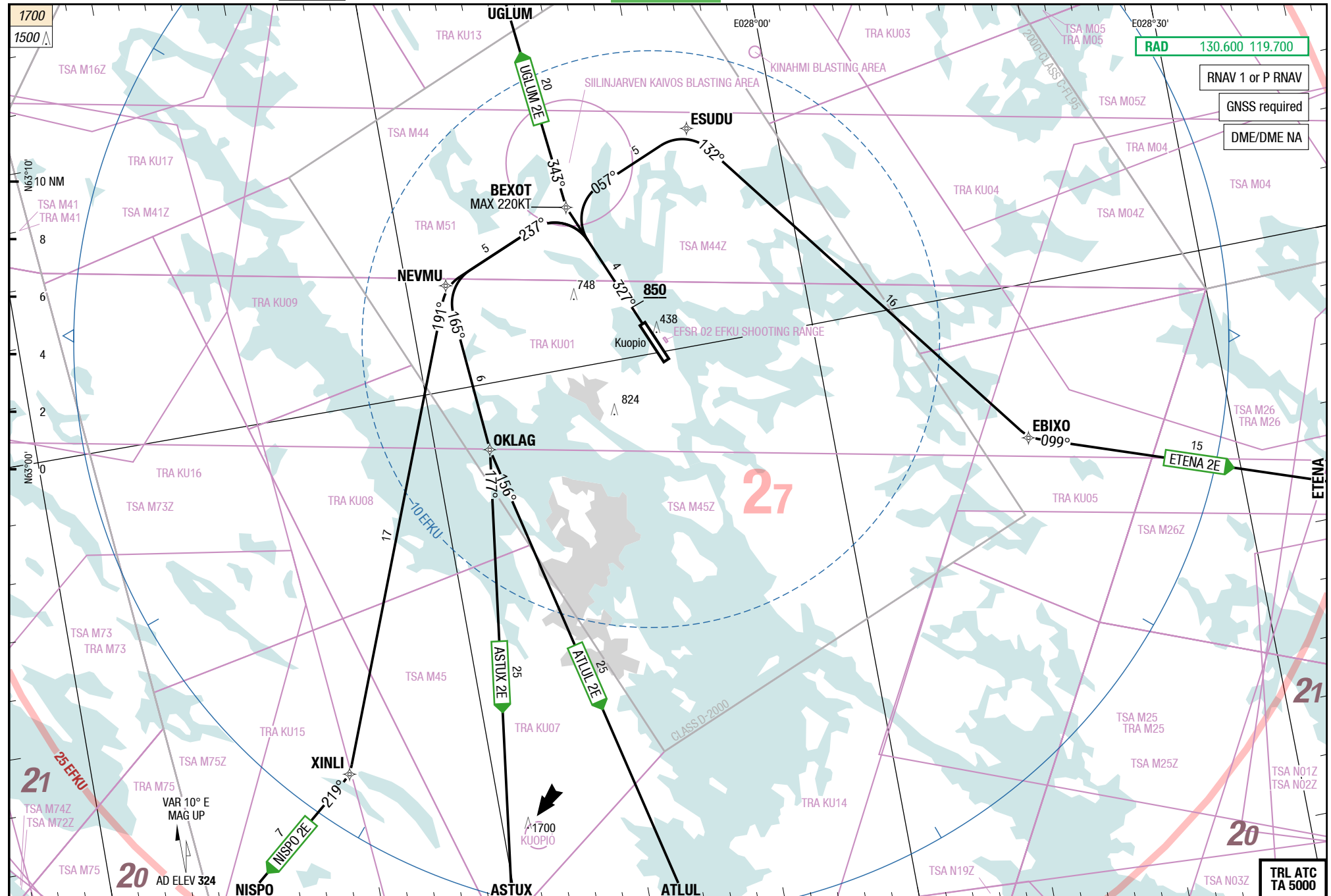
SID

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Finland Kuopio

Kuopio Finland

RNAV SIDs RWY 33



Changes: ALT, ASP, PROC, PROC rennumbered, SUAs, OBST

## ASTUX 2C / ATLUL 2C / ETENA 2C / NISPO 2C / UGLUM 2C

RWY 15 (147°)

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

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 15</b>	
<b>ASTUX 2C</b> 3.9% to 530 <b>130.600</b> ①	147° [A740+] - DCT SOXAS [K230-] - ASTUX	
<b>ATLUL 2C</b> 3.9% to 530 <b>130.600</b> ①	147° [A740+] - DCT SOXAS [K230-] - ATLUL	
<b>ETENA 2C</b> 3.9% to 530 <b>130.600</b> ①	147° [A740+] - DCT SOXAS [K230-] - ETENA	
<b>NISPO 2C</b> 3.9% to 530 <b>130.600</b> ①	147° [A740+] - DCT SOXAS [K230-] - NISPO	
<b>UGLUM 2C</b> 3.9% to 530 <b>130.600</b> ①	147° [A740+] - DCT SOXAS [K230-] - BAPLO - UNAGU - NIMGA - UGLUM	

① Close-in obstacles exist

ASTUX 2E / ATLUL 2E / ETENA 2E / NISPO 2E / UGLUM 2E  
RWY 33 (327°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 33	
ASTUX 2E 130.600	327° [A850+] - DCT BEXOT [K220-] - NEVMU - OKLAG - ASTUX	
ATLUL 2E 130.600	327° [A850+] - DCT BEXOT [K220-] - NEVMU - OKLAG - ATLUL	
ETENA 2E 130.600	327° [A850+] - DCT BEXOT [K220-] - ESUDU - EBIXO - ETENA	
NISPO 2E 130.600	327° [A850+] - DCT BEXOT [K220-] - NEVMU - XINLI - NISPO	
UGLUM 2E 130.600	327° [A850+] - DCT BEXOT [K220-] - UGLUM	

## DEPARTURES

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

RWY	Routing
OMNIDIRECTIONAL DEP	<b>RWY 15</b> 3.9% to 530 RWY HDG - climb until MNM turning ALT <b>740</b> .  <b>RWY 33</b> RWY HDG - climb until MNM turning ALT <b>850</b> .

RWY	Notes
15	1. Close in obstacles exist. 2. Published close-in obstacles not considered in climb gradient.

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6-10

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[RNAV STARS RWY 33]  
RNAV STARS RWY 15

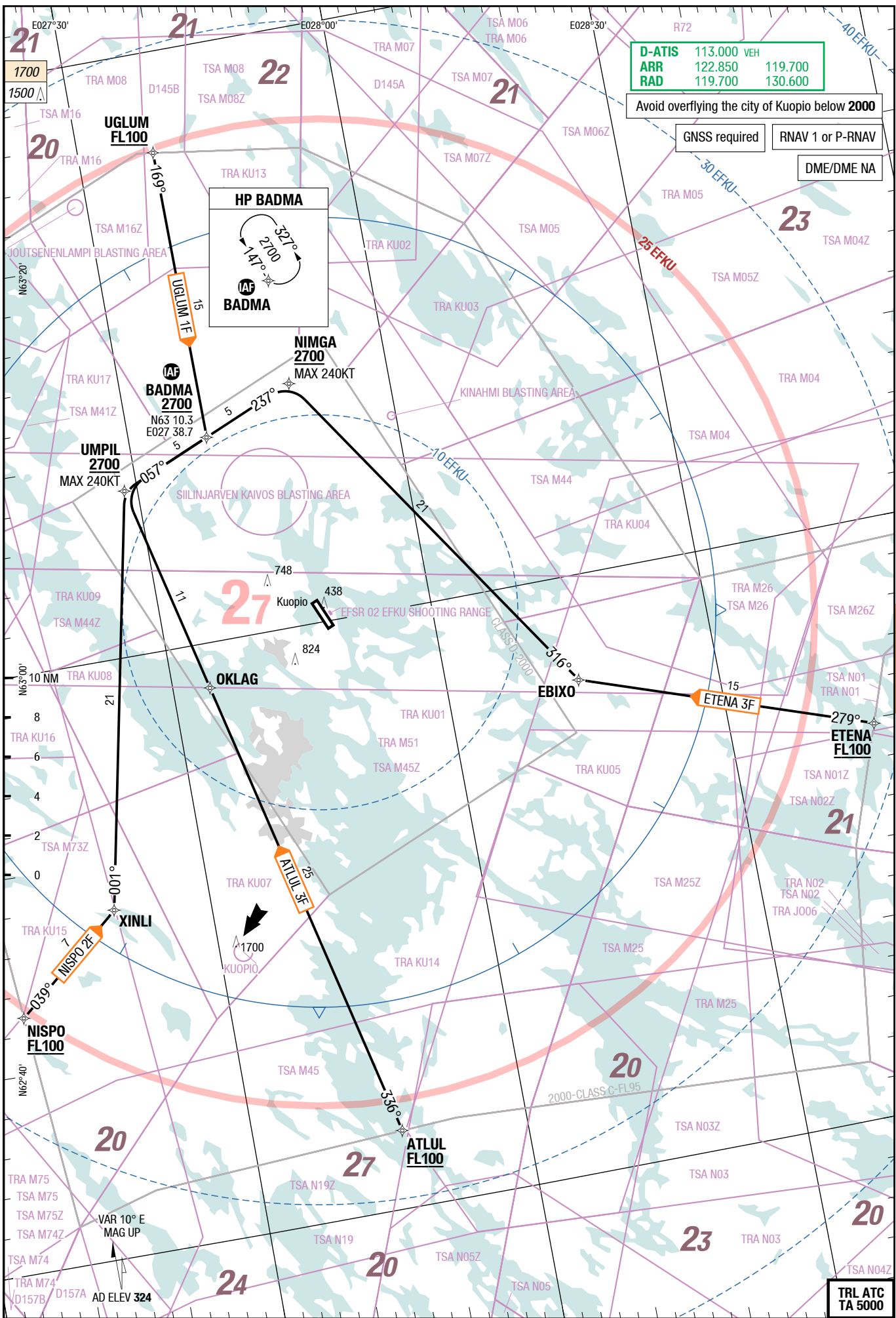
STAR  
STAR

Kuopio Finland  
[RNAV STARS RWY 33]  
RNAV STARS RWY 15

D-ATIS	113.000	VEH
ARR	122.850	119.700
RAD	119.700	130.600

Avoid overflying the city of Kuopio below 2000

GNSS required  
RNAV 1 or P-RNAV  
DME/DME NA



Changes: Track, MGA, ASP, SUA, OBST, Editorial

19-APR-2018  
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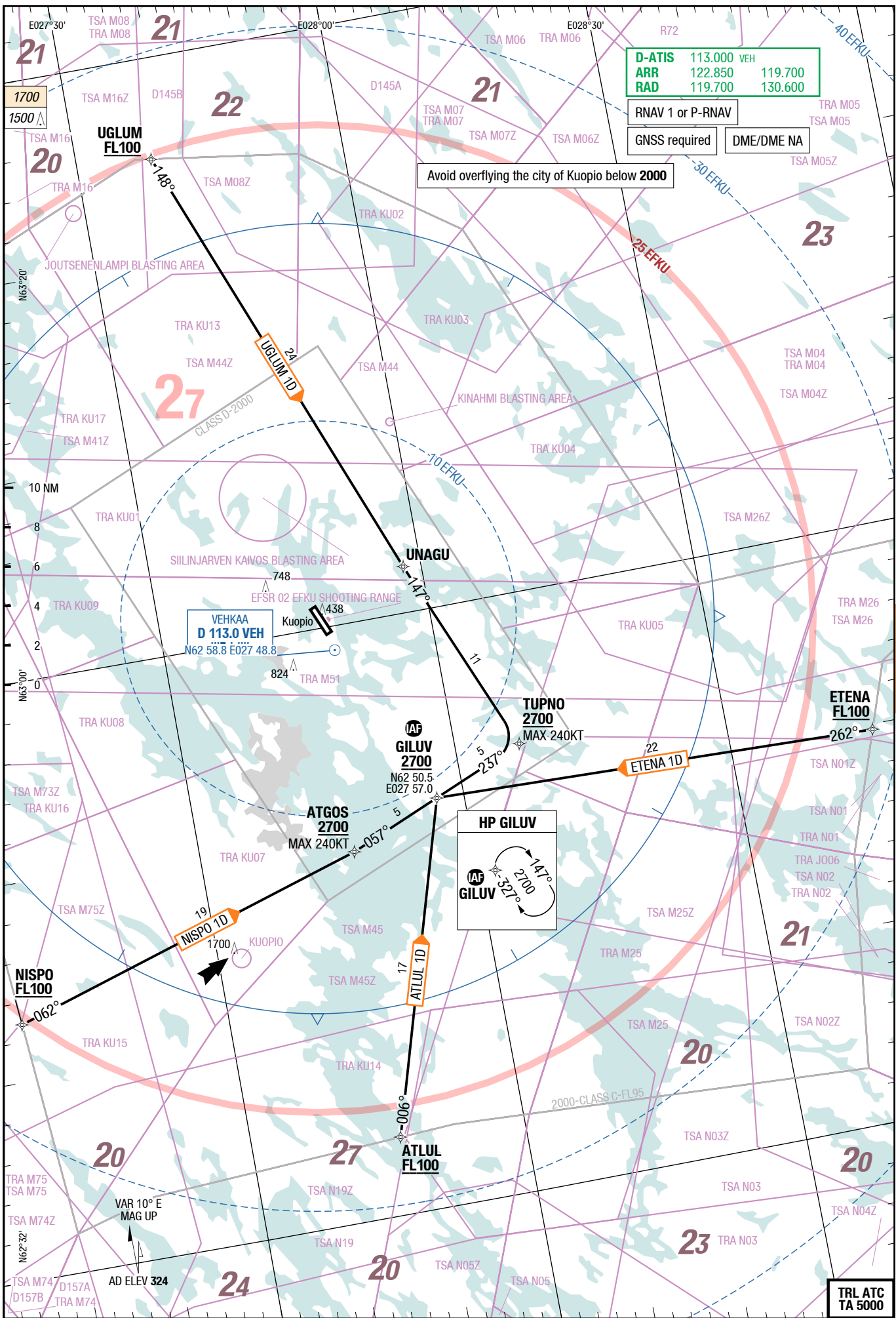
6-20

RNAV STARS RWY 33

STAR  
STAR

RNAV STARS RWY 33

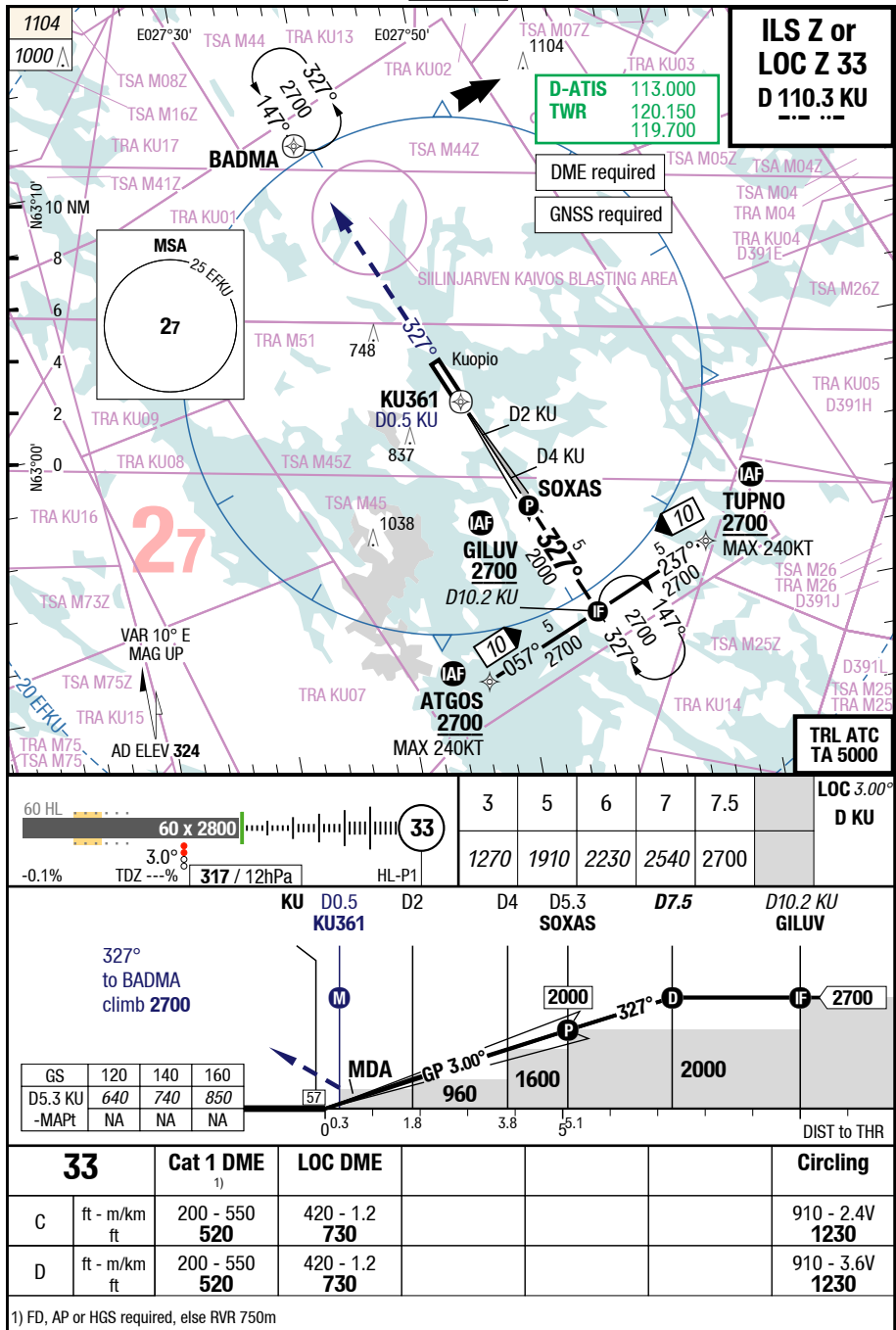
Finland Kuopio  
Kuopio Finland



Changes: ASP, MGA, SUA, OBST, Editorial

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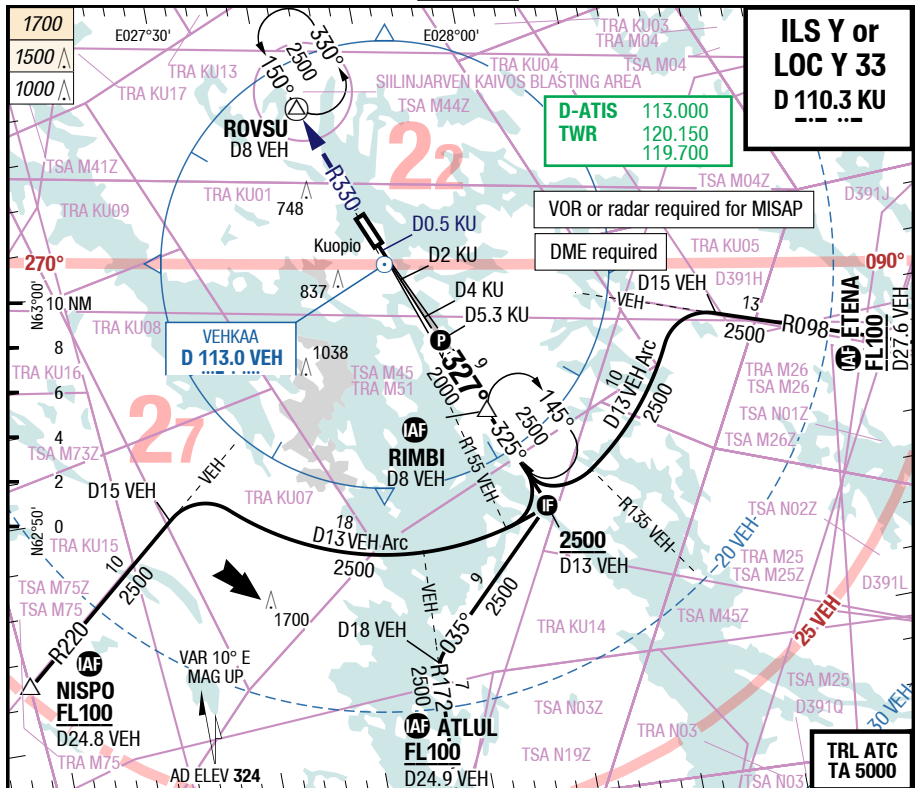
**7-10**

**ILS Z or LOC Z 33**

## KUO-EFKU

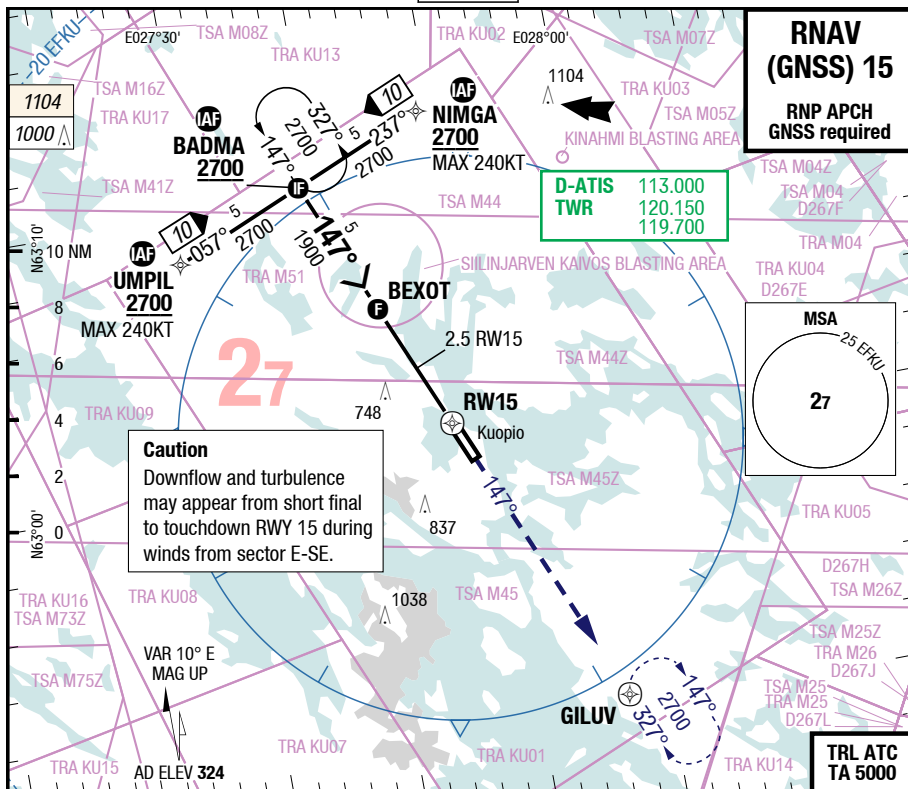
7-20

## ILS Y or LOC Y 33

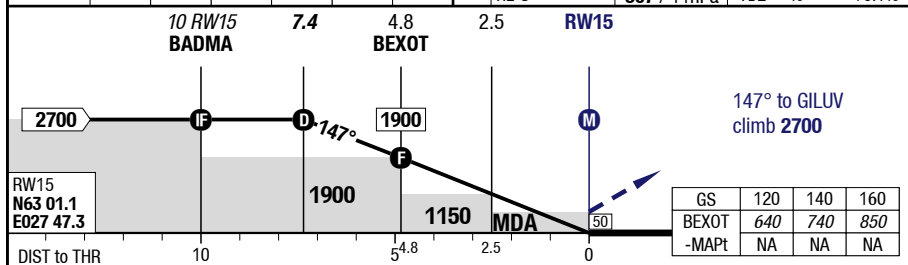


1) FD, AP or HGS required, else RVR 750m

Changes: MIN



3.00° RW15	7.4	6	5	4	3	2	15	3.0°	60 HL	2800 x 60	420	307 / 11hPa	TDZ ---%	+0.1%
	2700	2270	1950	1630	1320	1000	HL-S							



15	RNAV GNSS VNAV 1) 2)	RNAV GNSS LNAV			Circling
C	ft - m/km ft 670	350 - 1.2 420 - 1.5 740			910 - 2.4V 1230
D	ft - m/km ft 670	350 - 1.2 420 - 1.5 740			910 - 3.6V 1230

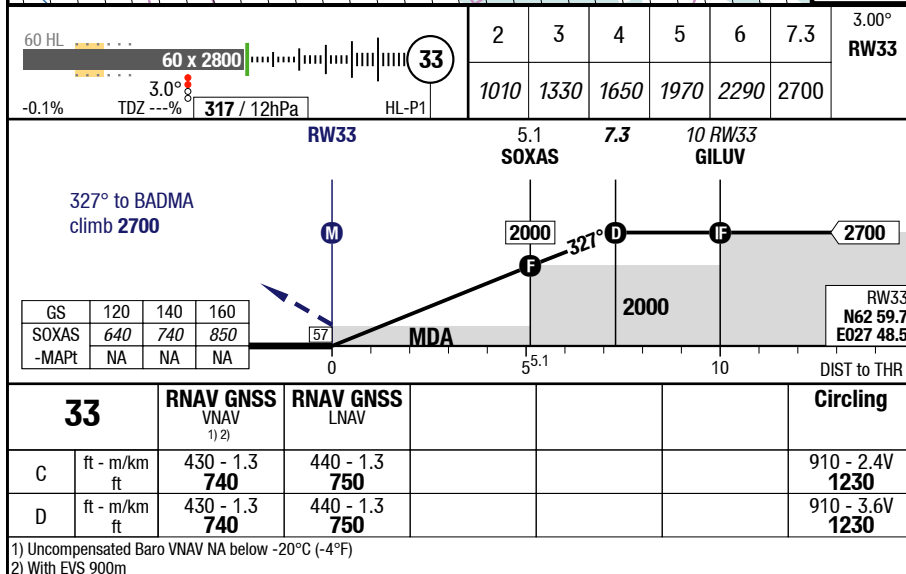
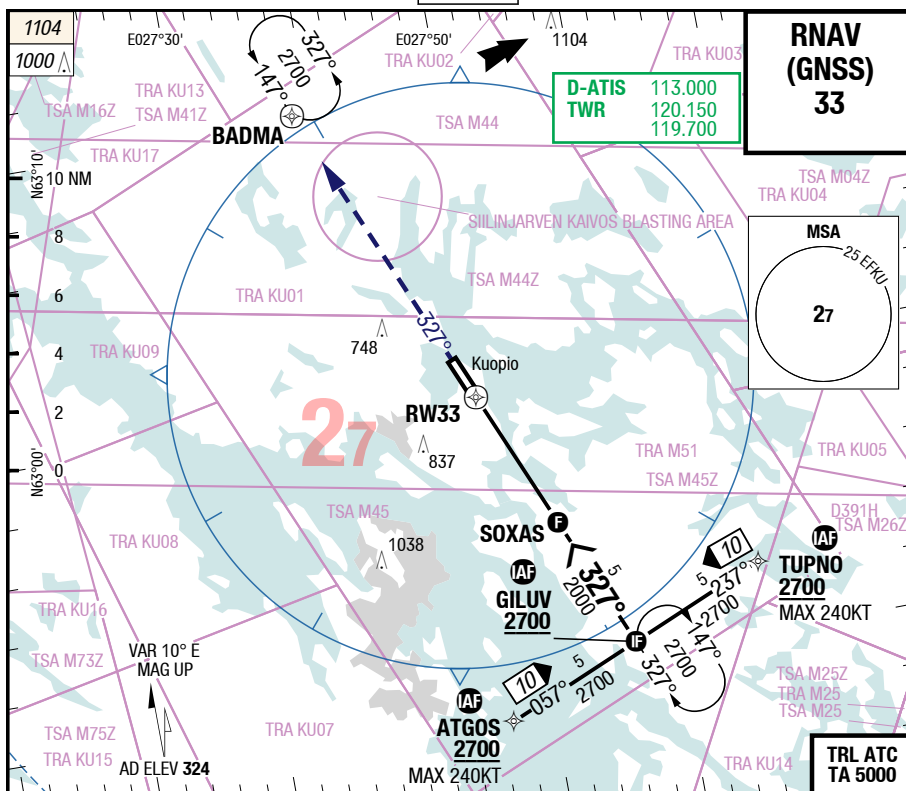
1) Uncompensated Baro VNAV NA below -20°C (-4°F)

2) With EVS 800m

Changes: DIST ALT table, Track, Note, HLDG, SUAs

7-40

RNAV (GNSS) 33





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**8-10**



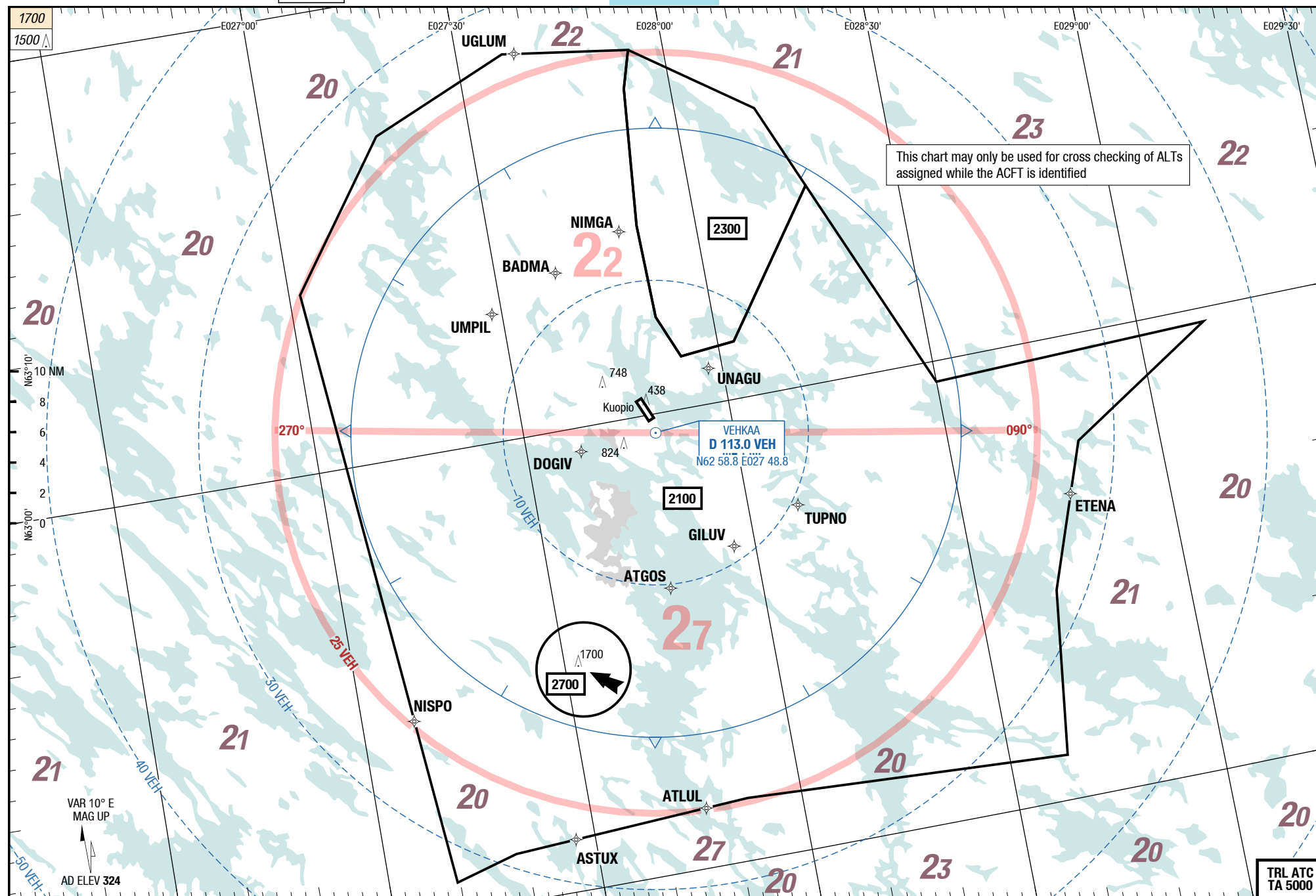
**MRC**

**MRC**

**MRC**



**MRC**



Changes: MGA, OBST

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