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AIP AMDT NR
006/2023
AIRAC
WEF
30 NOV 2023

AIP:N MUUTOS NR 006/2023 — AIP AMENDMENT NR 006/2023

Julkaisupäivä	12 OCT 2023	Publication date
Voimaantulopäivä	**30 NOV 2023**	**Effective date**

Muutos sisältää alla esitetyt muutosaiheet.

This amendment includes the below described changes.

GEN

GEN 2.2 Uusia lyhenteitä: ASD ja FPD

GEN 3.4 Muutos Ilmailuviesti- ja navigointipalvelut kohtaan Lennonjohtajan ja ohjaajan tiedonsiirtoyhteydet (CPDLC)

GEN

GEN 2.2 New abbreviations: ASD and FPD

GEN 3.4 Change to Controller - Pilot data link communications (CPDLC) in Communication and navigation services

AD 2 LENTOPAIKAT

HELSINKI-VANTAA (EFHK)

AD 2.19 ILS-luokituksen lisäys (Facility performance)

AD 2 AERODROMES

HELSINKI-VANTAA (EFHK)

AD 2.19 Addition of ILS classification (Facility performance)

JOENSUU (EFJO)

RNAV SID RWY 10 (EFJO AD 2.10 - 1/2)
RNAV SID RWY 28 (EFJO AD 2.10 - 3/4)
RNAV STAR RWY 10 (EFJO AD 2.12 - 1/2)
RNAV STAR RWY 28 (EFJO AD 2.12 - 3/4)
- Korjaus vaara-alueen D300 ylärajaan

JOENSUU (EFJO)

RNAV SID RWY 10 (EFJO AD 2.10 - 1/2)
RNAV SID RWY 28 (EFJO AD 2.10 - 3/4)
RNAV STAR RWY 10 (EFJO AD 2.12 - 1/2)
RNAV STAR RWY 28 (EFJO AD 2.12 - 3/4)
- Correction to upper limit of danger area D300

KAJAANI (EFKI)

AD 2.20 Uusia ilma-aluksen seisontapaikkoja

ADC (EFKI AD 2.4 - 1)
- Ilma-aluksen seisontapaikkojen 2B ja 3B käyttöönotto

KAJAANI (EFKI)

AD 2.20 New aircraft stands

ADC (EFKI AD 2.4 - 1)
- Introduction of ACFT stands 2B and 3B

KEMI-TORNIO (EFKE)

AD 2.20 Uusi ilma-aluksen seisontapaikka

ADC (EFKE AD 2.4 - 1)
- Ilma-aluksen seisontapaikan 1B käyttöönotto

KEMI-TORNIO (EFKE)

AD 2.20 New aircraft stand

ADC (EFKE AD 2.4 - 1)
- Introduction of ACFT stand 1B

KITTILÄ (EFKT)

AD 2.18 Kittilän selvitys (GND) käyttöönotto

ADC (EFKT AD 2.4 - 1)
ATC SMAC (EFKT AD 2.9 - 1/2)
RNAV SID RWY 16 (EFKT AD 2.10 - 1/2)
RNAV SID RWY 34 (EFKT AD 2.10 - 3/4)
RNAV STAR RWY 16 (EFKT AD 2.12 - 1/2)
RNAV STAR RWY 34 (EFKT AD 2.12 - 3/4)
LOC Z RWY 16 (EFKT AD 2.13 - 1/2)
LOC Y RWY 16 (EFKT AD 2.13 - 3)
RNP RWY 16 (EFKT AD 2.13 - 5/6)
ILS Z or LOC Z RWY 34 (EFKT AD 2.13 - 7/8)
ILS Y or LOC Y RWY 34 (EFKT AD 2.13 - 9)
RNP RWY 34 (EFKT AD 2.13 - 11/12)
VAC (EFKT AD 2.14 - 1)

KITTILÄ (EFKT)

AD 2.18 Introduction of Kittilä delivery (GND)

ADC (EFKT AD 2.4 - 1)
ATC SMAC (EFKT AD 2.9 - 1/2)
RNAV SID RWY 16 (EFKT AD 2.10 - 1/2)
RNAV SID RWY 34 (EFKT AD 2.10 - 3/4)
RNAV STAR RWY 16 (EFKT AD 2.12 - 1/2)
RNAV STAR RWY 34 (EFKT AD 2.12 - 3/4)
LOC Z RWY 16 (EFKT AD 2.13 - 1/2)
LOC Y RWY 16 (EFKT AD 2.13 - 3)
RNP RWY 16 (EFKT AD 2.13 - 5/6)
ILS Z or LOC Z RWY 34 (EFKT AD 2.13 - 7/8)
ILS Y or LOC Y RWY 34 (EFKT AD 2.13 - 9)
RNP RWY 34 (EFKT AD 2.13 - 11/12)
VAC (EFKT AD 2.14 - 1)

- GND-taajuuden lisääminen

PRD INDEX (EFKT AD 2.15 - 5)
- Käytöstä poistaminen

KOKKOLA-PIETARSAARI (EFKK)

AD 2.20 Uusia ilma-aluksen seisontapaikkoja

ADC (EFKK AD 2.4 - 1)
- Ilma-aluksen seisontapaikkojen 2B ja 3B käyttöönotto

ILS or LOC RWY 19 (EFKK AD 2.13 - 3/4)
- Korjaus IFR REP FEBCA sijaintiin kartalla

KUUSAMO (EFKS)

RNAV SID RWY 12 (EFKS AD 2.10 - 1/2)
RNAV SID RWY 30 (EFKS AD 2.10 - 3/4)
RNAV STAR RWY 12 (EFKS AD 2.12 - 1/2)
RNAV STAR RWY 30 (EFKS AD 2.12 - 3/4)
ILS or LOC RWY 12 (EFKS AD 2.13 - 1/2)
RNP RWY 12 (EFKS AD 2.13 - 3/4)
RNP RWY 30 (EFKS AD 2.13 - 5/6)
VAC (EFKS AD 2.14 - 1)
- Korjaus vaara-alueen D300 ylärajaan

LAPPEENRANTA (EFLP)

RNAV SID RWY 06 (EFLP AD 2.10 - 1/2)
RNAV SID RWY 24 (EFLP AD 2.10 - 3/4)
RNAV STAR RWY 06 (EFLP AD 2.12 - 1/2)
RNAV STAR RWY 24 (EFLP AD 2.12 - 3/4)
RNP RWY 06 (EFLP AD 2.13 - 3/4)
RNP RWY 24 (EFLP AD 2.13 - 5/6)
- D- ja R-alueiden korkeusrajojen lisäys

ILS or LOC RWY 06 (EFLP AD 2.13 - 1/2)
- D- ja R-alueiden korkeusrajojen lisäys
- Korjattu puuttuva FAF-tieto

VAC (EFLP AD 2.14 - 1)
- Korjaus vaara-alueen D300 ylärajaan

PRD INDEX (EFLP AD 2.15 - 5)
- Käytöstä poistaminen

OULU (EFOU)

AD 2.19 ILS-luokituksen lisäys (Facility performance)

PORI (EFPO)

AD 2.2 Yhteystietojen muutoksia (NOTAM K5767/23)

ROVANIEMI (EFRO)

AD 2.19 ILS-luokituksen lisäys (Facility performance)

SAVONLINNA (EFSA)

RNAV STAR RWY 12 (EFSA AD 2.12 - 1/2)
RNAV STAR RWY 30 (EFSA AD 2.12 - 3/4)
- Korjaus vaara-alueen D300 ylärajaan

VAASA (EFVA)

- Addition of GND FREQ

Withdrawal of PRD INDEX (EFKT AD 2.15 - 5)

KOKKOLA-PIETARSAARI (EFKK)

AD 2.20 New aircraft stands

ADC (EFKK AD 2.4 - 1)
- Introduction of ACFT stands 2B and 3B

ILS or LOC RWY 19 (EFKK AD 2.13 - 3/4)
- Correction to IFR REP FEBCA position on chart

KUUSAMO (EFKS)

RNAV SID RWY 12 (EFKS AD 2.10 - 1/2)
RNAV SID RWY 30 (EFKS AD 2.10 - 3/4)
RNAV STAR RWY 12 (EFKS AD 2.12 - 1/2)
RNAV STAR RWY 30 (EFKS AD 2.12 - 3/4)
ILS or LOC RWY 12 (EFKS AD 2.13 - 1/2)
RNP RWY 12 (EFKS AD 2.13 - 3/4)
RNP RWY 30 (EFKS AD 2.13 - 5/6)
VAC (EFKS AD 2.14 - 1)
- Correction to upper limit of danger area D300

LAPPEENRANTA (EFLP)

RNAV SID RWY 06 (EFLP AD 2.10 - 1/2)
RNAV SID RWY 24 (EFLP AD 2.10 - 3/4)
RNAV STAR RWY 06 (EFLP AD 2.12 - 1/2)
RNAV STAR RWY 24 (EFLP AD 2.12 - 3/4)
RNP RWY 06 (EFLP AD 2.13 - 3/4)
RNP RWY 24 (EFLP AD 2.13 - 5/6)
- Addition of vertical limits to D and R areas

ILS or LOC RWY 06 (EFLP AD 2.13 - 1/2)
- Addition of vertical limits to D and R areas
- Correction to missing FAF info

VAC (EFLP AD 2.14 - 1)
- Correction to upper limit of danger area D300

Withdrawal of PRD INDEX (EFLP AD 2.15 - 5)

OULU (EFOU)

AD 2.19 Addition of ILS classification (Facility performance)

PORI (EFPO)

AD 2.2 Changes to contact information (NOTAM B1743/23)

ROVANIEMI (EFRO)

AD 2.19 Addition of ILS classification (Facility performance)

SAVONLINNA (EFSA)

RNAV STAR RWY 12 (EFSA AD 2.12 - 1/2)
RNAV STAR RWY 30 (EFSA AD 2.12 - 3/4)
- Correction to upper limit of danger area D300

VAASA (EFVA)

NON-RNAV INA RWY 16 (EFVA AD 2.12 - 5)
NON-RNAV INA RWY 34 (EFVA AD 2.12 - 7)
ILS Y or LOC Y RWY 16 (EFVA AD 2.13 - 3)
VOR RWY 34 (EFVA AD 2.13 - 9)
- MSA VAS muutos (NOTAM K5158/23)

AD 2 VALVOMATTOMAT LENTOPAIKAT

LAHTI-VESIVEHMAA (EFLA)

AD 2.12 Muutoksia kiitotien ominaistietoihin:
- COORD (NOTAM K5875/23)
- CWY

AD 2.13 Muutoksia kiitotien laskennallisiin pituuksiin

REDSTONE AERO (EFPR)

RNP RWY 15 (EFPR AD 2.13 - 1/2)
- LNAV ja Circling OCA (H) muutos
- MOCA arvojen muutos
- EFUT ATIS-taajuuden lisääminen
- LPV OCA (H) minimien lisäys
- Korkeusmittariasetuksen etälähteen käyttöönotto
- Korjaus vaara-alueen D300 ylärajaan

RNP RWY 33 (EFPR AD 2.13 - 3/4/5)
- Keskeytetyn lähestymisen menetelmän muutos
- LNAV ja Circling OCA (H) muutos
- MOCA arvojen muutos
- EFUT ATIS-taajuuden lisääminen
- LPV OCA (H) minimien lisäys
- Korkeusmittariasetuksen etälähteen käyttöönotto
- Korjaus vaara-alueen D300 ylärajaan

VAC (EFPR AD 2.14 - 1)
- EFUT ATIS taajuuden lisääminen
- Korjaus vaara-alueen D300 ylärajaan

FAS DATA BLOCK (EFPR AD 2.15 - 1)
- Uusi tuote

Seuraavat NOTAMit on sisällytetty AIP:hen tällä AIRAC-muutoksella:

K5158/23, K5767/23, K5875/23
B1586/23, B1743/23
D0259/23

NOTAMit kumotaan 14 vuorokauden kuluttua tämän AIP AIRAC muutoksen voimaantulosta.

Seuraavat AIP Supplementit ja AIC:t on sisällytetty AIP:hen / kumotaan tällä AIP AIRAC muutoksella:

AIP SUP: NIL
AIC A: NIL

NON-RNAV INA RWY 16 (EFVA AD 2.12 - 5)
NON-RNAV INA RWY 34 (EFVA AD 2.12 - 7)
ILS Y or LOC Y RWY 16 (EFVA AD 2.13 - 3)
VOR RWY 34 (EFVA AD 2.13 - 9)
- Change to MSA VAS (NOTAM B1586/23)

AD 2 UNCONTROLLED AERODROMES

LAHTI-VESIVEHMAA (EFLA)

AD 2.12 Changes to Runway physical characteristics:
- COORD (NOTAM D0259/23)
- CWY

AD 2.13 Changes to Declared distances

REDSTONE AERO (EFPR)

RNP RWY 15 (EFPR AD 2.13 - 1/2)
- Change to LNAV and Circling OCA (H)
- Change to MOCA values
- Addition of EFUT ATIS FREQ
- Addition of LPV OCA (H)
- Introduction of RASS
- Correction to upper limit of danger area D300

RNP RWY 33 (EFPR AD 2.13 - 3/4/5)
- Change to missed approach PROC
- Change to LNAV and Circling OCA (H)
- Change to MOCA values
- Addition of EFUT ATIS FREQ
- Addition of LPV OCA (H)
- Introduction of RASS
- Correction to upper limit of danger area D300

VAC (EFPR AD 2.14 - 1)
- Addition of EFUT ATIS FREQ
- Correction to upper limit of danger area D300

FAS DATA BLOCK (EFPR AD 2.15 - 1)
- New product

Information previously published by the following NOTAM has been incorporated in the AIP with this AIRAC AMDT:

K5158/23, K5767/23, K5875/23
B1586/23, B1743/23
D0259/23

The NOTAM concerned will be cancelled 14 days after the effective date of this AIP AIRAC AMDT.

Information published by the following AIP Supplements and AIC have been incorporated in the AIP / cancelled with this AIRAC AMDT:

AIP SUP: NIL
AIC A: NIL

Luettelo tällä muutoksella poistetuista ja/tai lisätyistä AIP:n sivuista
List of AIP pages removed and/or inserted by this Amendment

Poistetut sivut **Removed pages**		**Lisätyt sivut** **Inserted pages**	
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GEN 2.2 - 21	29 DEC 2022	GEN 2.2 - 21	30 NOV 2023
GEN 2.2 - 22	29 DEC 2022	GEN 2.2 - 22	30 NOV 2023
GEN 2.2 - 23	29 DEC 2022	GEN 2.2 - 23	30 NOV 2023
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GEN 2.2 - 28	29 DEC 2022	GEN 2.2 - 28	30 NOV 2023
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GEN 3.2 - 16	05 OCT 2023	GEN 3.2 - 16	30 NOV 2023
GEN 3.2 - 18	05 OCT 2023	GEN 3.2 - 18	30 NOV 2023
GEN 3.2 - 19	05 OCT 2023	GEN 3.2 - 19	30 NOV 2023
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EFJO AD 2.12 - 2	20 APR 2023	EFJO AD 2.12 - 2	30 NOV 2023
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EFJO AD 2.12 - 4	20 APR 2023	EFJO AD 2.12 - 4	30 NOV 2023
EFKI AD 2.1 - 9	26 JAN 2023	EFKI AD 2.1 - 9	30 NOV 2023
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EFKT AD 2.1 - 8	26 JAN 2023	EFKT AD 2.1 - 8	30 NOV 2023
EFKT AD 2.1 - 11	20 APR 2023	EFKT AD 2.1 - 11	30 NOV 2023
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EFKT AD 2.13 - 2	22 APR 2021	EFKT AD 2.13 - 2	30 NOV 2023
EFKT AD 2.13 - 3	22 APR 2021	EFKT AD 2.13 - 3	30 NOV 2023
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EFKT AD 2.15 - 6	29 DEC 2022		
EFKK AD 2.1 - 9	05 OCT 2023	EFKK AD 2.1 - 9	30 NOV 2023
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EFKS AD 2.12 - 2	10 AUG 2023	EFKS AD 2.12 - 2	30 NOV 2023
EFKS AD 2.12 - 3	10 AUG 2023	EFKS AD 2.12 - 3	30 NOV 2023
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GEN 0.2 LUETTELO AIP:N MUUTOKSISTA **GEN 0.2 RECORD OF AIP AMENDMENTS**

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AMDT NR	*Julkaisupäivä*	*Voimaantulopäivä*	*Muutoksen suorittaja*
	Publication date	*Effective Date*	*Inserted by*
001/2023	15 DEC 2022	26 JAN 2023	
002/2023	16 FEB 2023	20 APR 2023	
003/2023	04 MAY 2023	15 JUN 2023	
004/2023	29 JUN 2023	10 AUG 2023	
005/2023	24 AUG 2023	05 OCT 2023	
006/2023	12 OCT 2023	30 NOV 2023	

Non-AIRAC			
AMDT NR	*Julkaisupäivä*	*Muutospäivä*	*Muutoksen suorittaja*
	Publication date	*Date inserted*	*Inserted by*
006/2022	17 NOV 2022	29 DEC 2022	

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GEN 0.4 AIP:N SIVUJEN TARKISTUSLUETTELO / CHECKLIST OF AIP PAGES

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EFTP AD 2.1 - 10	10 AUG 2023	EFTU AD 2.1 - 2	26 JAN 2023	EFTU AD 2.14 - 4	29 DEC 2022
EFTP AD 2.1 - 11	29 DEC 2022	EFTU AD 2.1 - 3	26 JAN 2023	EFTU AD 2.15 - 1	22 APR 2021
EFTP AD 2.1 - 12	20 APR 2023	EFTU AD 2.1 - 4	10 AUG 2023	EFTU AD 2.15 - 2	29 DEC 2022
EFTP AD 2.1 - 13	29 DEC 2022	EFTU AD 2.1 - 5	26 JAN 2023	EFTU AD 2.15 - 3	29 DEC 2022
EFTP AD 2.1 - 14	29 DEC 2022	EFTU AD 2.1 - 6	26 JAN 2023	EFTU AD 2.15 - 4	29 DEC 2022
EFTP AD 2.2 - 1	29 DEC 2022	EFTU AD 2.1 - 7	26 JAN 2023	EFUT AD 2.1 - 1	26 JAN 2023
EFTP AD 2.2 - 2	29 DEC 2022	EFTU AD 2.1 - 8	29 DEC 2022	EFUT AD 2.1 - 2	26 JAN 2023
EFTP AD 2.3 - 1	29 DEC 2022	EFTU AD 2.1 - 9	10 AUG 2023	EFUT AD 2.1 - 3	10 AUG 2023
EFTP AD 2.3 - 2	29 DEC 2022	EFTU AD 2.1 - 10	29 DEC 2022	EFUT AD 2.1 - 4	10 AUG 2023
EFTP AD 2.4 - 1	10 AUG 2023	EFTU AD 2.1 - 11	29 DEC 2022	EFUT AD 2.1 - 5	10 AUG 2023
EFTP AD 2.4 - 2	29 DEC 2022	EFTU AD 2.1 - 12	29 DEC 2022	EFUT AD 2.1 - 6	10 AUG 2023

EFUT AD 2.1 - 7	10 AUG 2023
EFUT AD 2.1 - 8	10 AUG 2023
EFUT AD 2.1 - 9	10 AUG 2023
EFUT AD 2.1 - 10	10 AUG 2023
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EFUT AD 2.3 - 1	29 DEC 2022
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EFUT AD 2.4 - 1	10 AUG 2023
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EFUT AD 2.7 - 1	28 JAN 2021
EFUT AD 2.7 - 2	29 DEC 2022
EFUT AD 2.8 - 1	29 DEC 2022
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EFUT AD 2.9 - 1	29 DEC 2022
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EFUT AD 2.15 - 4	29 DEC 2022
EFUT AD 2.15 - 5	20 APR 2023
EFUT AD 2.15 - 6	29 DEC 2022
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EFVA AD 2.6 - 1	05 OCT 2023
EFVA AD 2.6 - 2	29 DEC 2022
EFVA AD 2.7 - 1	18 JUN 2020
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EFVA AD 2.12 - 4	21 APR 2022
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EFVA AD 2.12 - 6	29 DEC 2022
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EFVA AD 2.13 - 2	21 APR 2022
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EFVA AD 2.13 - 4	29 DEC 2022
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EFVA AD 2.13 - 8	29 DEC 2022
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EFVA AD 2.15 - 5	29 DEC 2022
EFVA AD 2.15 - 6	29 DEC 2022

AD 2 (Uncontrolled AD)

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EFEU AD 2.1 - 6	26 JAN 2023	EFFO AD 2.13 - 2	29 DEC 2022	EFHP AD 2.9 - 2	29 DEC 2022
EFEU AD 2.1 - 7	26 JAN 2023	EFFO AD 2.14 - 1	29 DEC 2022	EFHP AD 2.10 - 1	29 DEC 2022
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EFHL AD 2.8 - 1 29 DEC 2022	EFHF AD 2.4 - 1 29 DEC 2022	EFHM AD 2.1 - 1 29 DEC 2022
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AD 3		
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EFTV AD 3.3 - 2	29 DEC 2022
EFTV AD 3.4 - 1	29 DEC 2022
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EFTV AD 3.5 - 1	29 DEC 2022
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EFTV AD 3.8 - 1	29 DEC 2022
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EFTV AD 3.10 - 1	29 DEC 2022
EFTV AD 3.10 - 2	29 DEC 2022
EFTV AD 3.11 - 1	29 DEC 2022
EFTV AD 3.11 - 2	29 DEC 2022
EFTV AD 3.12 - 1	29 DEC 2022
EFTV AD 3.12 - 2	29 DEC 2022
EFTV AD 3.13 - 1	29 DEC 2022
EFTV AD 3.13 - 2	29 DEC 2022
EFTV AD 3.14 - 1	29 DEC 2022
EFTV AD 3.14 - 2	29 DEC 2022
EFTV AD 3.15 - 1	29 DEC 2022
EFTV AD 3.15 - 2	29 DEC 2022

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RWY Ident	*True BRG*	*True BRG Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFIV RWY 04 EFIV RWY 22	46.99° 227.03°	NIL NIL	1 DEG
EFJO RWY 10 EFJO RWY 28	110.3° 290.34°	NIL NIL	1 DEG
EFJY RWY 12 EFJY RWY 30	133.93° 313.96°	NIL NIL	1 DEG
EFKA RWY 17 EFKA RWY 35	176.9° 356.91°	NIL NIL	1 DEG
EFKE RWY 18 EFKE RWY 36	187.52° 7.51°	NIL NIL	1 DEG
EFKI RWY 07 EFKI RWY 25	79.58° 259.63°	NIL NIL	1 DEG
EFKK RWY 01 EFKK RWY 19	10.64° 190.65°	NIL NIL	1 DEG
EFKK RWY 11 EFKK RWY 29	113.01° 293.02°	NIL NIL	1 DEG
EFKS RWY 12 EFKS RWY 30	132.18° 312.21°	NIL NIL	1 DEG
EFKT RWY 16 EFKT RWY 34	166.1° 346.12°	NIL NIL	1 DEG
EFKU RWY 15 EFKU RWY 33	157.17° 337.19°	NIL NIL	1 DEG
EFLA RWY 07 EFLA RWY 25	67.86° 247.88°	NIL NIL	1 DEG
EFLA RWY 18 EFLA RWY 36	185.6° 5.6°	NIL NIL	1 DEG
EFLP RWY 06 EFLP RWY 24	66.72° 246.76°	NIL NIL	1 DEG
EFMA RWY 03 EFMA RWY 21	23.37° 203.38°	NIL NIL	1 DEG
EFMI RWY 11 EFMI RWY 29	112.59° 292.61°	NIL NIL	1 DEG
EFNU RWY 04 EFNU RWY 22	40.69° 220.7°	NIL NIL	1 DEG
EFOU RWY 12 EFOU RWY 30	120.98° 301.02°	NIL NIL	1 DEG
EFPO RWY 12 EFPO RWY 30	125.77° 305.8°	NIL NIL	1 DEG
EFPO RWY 17 EFPO RWY 35	173.89° 353.89°	NIL NIL	1 DEG
EFPR RWY 15 EFPR RWY 33	161.68° 341.69°	NIL NIL	1 DEG
EFRO RWY 03 EFRO RWY 21	37.17° 217.21°	NIL NIL	1 DEG
EFSA RWY 12 EFSA RWY 30	125.66° 305.69°	NIL NIL	1 DEG
EFSI RWY 14 EFSI RWY 32	136.18° 316.2°	NIL NIL	1 DEG
EFSO RWY 16 EFSO RWY 34	165.35° 345.36°	NIL NIL	1 DEG

RWY Ident	*True BRG*	*True BRG Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFTP RWY 06 EFTP RWY 24	64.44° 244.48°	NIL NIL	1 DEG
EFTU RWY 08 EFTU RWY 26	84.83° 264.87°	NIL NIL	1 DEG
EFUT RWY 07 EFUT RWY 25	78.03° 258.06°	NIL NIL	1 DEG
EFVA RWY 16 EFVA RWY 34	163.16° 343.17°	NIL NIL	1 DEG
RWY END position designator	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFET RWY 03	682212N 0232617E	NIL	1 M
EFET RWY 21	682119N 0232438E	NIL	1 M
EFHA RWY 08	615125N 0244841E	NIL	1 M
EFHA RWY 26	615119N 0244543E	NIL	1 M
EFHK RWY 04L	601953N 0245641E	NIL	1 M
EFHK RWY 22R	601847N 0245414E	NIL	1 M
EFHK RWY 04R	601950N 0245845E	NIL	1 M
EFHK RWY 22L	601834N 0245557E	NIL	1 M
EFHK RWY 15	601825N 0245918E	NIL	1 M
EFHK RWY 33	601949N 0245752E	NIL	1 M
EFIV RWY 04	683654N 0272540E	NIL	1 M
EFIV RWY 22	683559N 0272258E	NIL	1 M
EFJO RWY 10	623924N 0293836E	NIL	1 M
EFJO RWY 28	623953N 0293552E	NIL	1 M
EFJY RWY 12	622329N 0254147E	NIL	1 M
EFJY RWY 30	622427N 0253937E	NIL	1 M
EFKA RWY 17	630654N 0230310E	NIL	1 M
EFKA RWY 35	630821N 0230300E	NIL	1 M
EFKE RWY 18	654735N 0243510E	NIL	1 M
EFKE RWY 36	654615N 0243444E	NIL	1 M
EFKI RWY 07	641715N 0274304E	NIL	1 M
EFKI RWY 25	641700N 0274001E	NIL	1 M
EFKK RWY 01	634348N 0230851E	NIL	1 M
EFKK RWY 19	634228N 0230817E	NIL	1 M
EFKK RWY 11	634316N 0230835E	NIL	1 M
EFKK RWY 29	634325N 0230748E	NIL	1 M
EFKS RWY 12	655848N 0291535E	NIL	1 M
EFKS RWY 30	655941N 0291311E	NIL	1 M
EFKT RWY 16	674125N 0245114E	NIL	1 M
EFKT RWY 34	674243N 0245023E	NIL	1 M
EFKU RWY 15	625942N 0274833E	NIL	1 M
EFKU RWY 33	630105N 0274716E	NIL	1 M
EFLA RWY 07	610847N 0254215E	NIL	1 M
EFLA RWY 25	610832N 0254100E	NIL	1 M
EFLP RWY 06	610256N 0280956E	NIL	1 M
EFLP RWY 24	610224N 0280723E	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFKK RWY 19 - TORA	2500 M	NIL	1 M
EFKK RWY 19 - TODA	1261 M	NIL	1 M
EFKK RWY 19 - TODA	2500 M	NIL	1 M
EFKK RWY 19 - ASDA	1261 M	NIL	1 M
EFKK RWY 19 - ASDA	2500 M	NIL	1 M
EFKK RWY 19 - LDA	2500 M	NIL	1 M
EFKK RWY 11 - TORA	700 M	NIL	1 M
EFKK RWY 11 - TODA	700 M	NIL	1 M
EFKK RWY 11 - ASDA	700 M	NIL	1 M
EFKK RWY 11 - LDA	700 M	NIL	1 M
EFKK RWY 29 - TORA	700 M	NIL	1 M
EFKK RWY 29 - TODA	700 M	NIL	1 M
EFKK RWY 29 - ASDA	700 M	NIL	1 M
EFKK RWY 29 - LDA	700 M	NIL	1 M
EFKS RWY 12 - TORA	2460 M	NIL	1 M
EFKS RWY 12 - TORA	2362 M	NIL	1 M
EFKS RWY 12 - TODA	2460 M	NIL	1 M
EFKS RWY 12 - TODA	2362 M	NIL	1 M
EFKS RWY 12 - ASDA	2460 M	NIL	1 M
EFKS RWY 12 - ASDA	2362 M	NIL	1 M
EFKS RWY 12 - LDA	2460 M	NIL	1 M
EFKS RWY 30 - TORA	2460 M	NIL	1 M
EFKS RWY 30 - TODA	2460 M	NIL	1 M
EFKS RWY 30 - ASDA	2460 M	NIL	1 M
EFKS RWY 30 - LDA	2460 M	NIL	1 M
EFKT RWY 16 - TORA	2500 M	NIL	1 M
EFKT RWY 16 - TORA	1960 M	NIL	1 M
EFKT RWY 16 - TODA	2500 M	NIL	1 M
EFKT RWY 16 - TODA	1960 M	NIL	1 M
EFKT RWY 16 - ASDA	2500 M	NIL	1 M
EFKT RWY 16 - ASDA	1960 M	NIL	1 M
EFKT RWY 16 - LDA	2500 M	NIL	1 M
EFKT RWY 34 - TORA	2500 M	NIL	1 M
EFKT RWY 34 - TORA	1952 M	NIL	1 M
EFKT RWY 34 - TORA	1613 M	NIL	1 M
EFKT RWY 34 - TODA	2500 M	NIL	1 M
EFKT RWY 34 - TODA	1952 M	NIL	1 M
EFKT RWY 34 - TODA	1613 M	NIL	1 M
EFKT RWY 34 - ASDA	2500 M	NIL	1 M
EFKT RWY 34 - ASDA	1952 M	NIL	1 M
EFKT RWY 34 - ASDA	1613 M	NIL	1 M
EFKT RWY 34 - LDA	2500 M	NIL	1 M
EFKU RWY 15 - TORA	1500 M	NIL	1 M
EFKU RWY 15 - TORA	1990 M	NIL	1 M
EFKU RWY 15 - TORA	1990 M	NIL	1 M
EFKU RWY 15 - TORA	2361 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFKU RWY 15 - TORA	2800 M	NIL	1 M
EFKU RWY 15 - TODA	1990 M	NIL	1 M
EFKU RWY 15 - TODA	1500 M	NIL	1 M
EFKU RWY 15 - TODA	1990 M	NIL	1 M
EFKU RWY 15 - TODA	2361 M	NIL	1 M
EFKU RWY 15 - TODA	2800 M	NIL	1 M
EFKU RWY 15 - ASDA	1990 M	NIL	1 M
EFKU RWY 15 - ASDA	1500 M	NIL	1 M
EFKU RWY 15 - ASDA	1990 M	NIL	1 M
EFKU RWY 15 - ASDA	2361 M	NIL	1 M
EFKU RWY 15 - ASDA	2800 M	NIL	1 M
EFKU RWY 15 - LDA	2800 M	NIL	1 M
EFKU RWY 33 - TORA	1345 M	NIL	1 M
EFKU RWY 33 - TORA	2052 M	NIL	1 M
EFKU RWY 33 - TORA	2509 M	NIL	1 M
EFKU RWY 33 - TORA	2800 M	NIL	1 M
EFKU RWY 33 - TODA	1345 M	NIL	1 M
EFKU RWY 33 - TODA	2052 M	NIL	1 M
EFKU RWY 33 - TODA	2509 M	NIL	1 M
EFKU RWY 33 - TODA	2800 M	NIL	1 M
EFKU RWY 33 - ASDA	1345 M	NIL	1 M
EFKU RWY 33 - ASDA	2052 M	NIL	1 M
EFKU RWY 33 - ASDA	2509 M	NIL	1 M
EFKU RWY 33 - ASDA	2800 M	NIL	1 M
EFKU RWY 33 - LDA	2800 M	NIL	1 M
EFLA RWY 07 - DTHR	156 M	NIL	1 M
EFLA RWY 07 - TORA	1199 M	NIL	1 M
EFLA RWY 07 - TODA	1235 M	NIL	1 M
EFLA RWY 07 - ASDA	1199 M	NIL	1 M
EFLA RWY 07 - LDA	1043 M	NIL	1 M
EFLA RWY 25 - DTHR	60 M	NIL	1 M
EFLA RWY 25 - TORA	1199 M	NIL	1 M
EFLA RWY 25 - TODA	1252 M	NIL	1 M
EFLA RWY 25 - ASDA	1199 M	NIL	1 M
EFLA RWY 25 - LDA	1139 M	NIL	1 M
EFLP RWY 06 - TORA	2500 M	NIL	1 M
EFLP RWY 06 - TODA	2500 M	NIL	1 M
EFLP RWY 06 - ASDA	2500 M	NIL	1 M
EFLP RWY 06 - LDA	2500 M	NIL	1 M
EFLP RWY 24 - TORA	2500 M	NIL	1 M
EFLP RWY 24 - TODA	2500 M	NIL	1 M
EFLP RWY 24 - ASDA	2500 M	NIL	1 M
EFLP RWY 24 - LDA	2500 M	NIL	1 M
EFMA RWY 03 - TORA	1903 M	NIL	1 M
EFMA RWY 03 - TODA	1903 M	NIL	1 M
EFMA RWY 03 - ASDA	1903 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFMA RWY 03 - LDA	1903 M	NIL	1 M
EFMA RWY 21 - TORA	1903 M	NIL	1 M
EFMA RWY 21 - TORA	1392 M	NIL	1 M
EFMA RWY 21 - TODA	1903 M	NIL	1 M
EFMA RWY 21 - TODA	1392 M	NIL	1 M
EFMA RWY 21 - ASDA	1903 M	NIL	1 M
EFMA RWY 21 - ASDA	1392 M	NIL	1 M
EFMA RWY 21 - LDA	1903 M	NIL	1 M
EFMI RWY 11 - DTHR	1702 M	NIL	1 M
EFMI RWY 11 - TORA	1702 M	NIL	1 M
EFMI RWY 11 - TODA	1702 M	NIL	1 M
EFMI RWY 11 - ASDA	1702 M	NIL	1 M
EFMI RWY 11 - LDA	1453 M	NIL	1 M
EFMI RWY 29 - DTHR	1702 M	NIL	1 M
EFMI RWY 29 - TORA	1702 M	NIL	1 M
EFMI RWY 29 - TORA	1061 M	NIL	1 M
EFMI RWY 29 - TODA	1702 M	NIL	1 M
EFMI RWY 29 - TODA	1061 M	NIL	1 M
EFMI RWY 29 - ASDA	1702 M	NIL	1 M
EFMI RWY 29 - ASDA	1061 M	NIL	1 M
EFMI RWY 29 - LDA	1602 M	NIL	1 M
EFNU RWY 04 - DTHR	33 M	NIL	1 M
EFNU RWY 04 - LDA	1181 M	NIL	1 M
EFNU RWY 22 - LDA	1214 M	NIL	1 M
EFOU RWY 12 - TORA	1409 M	NIL	1 M
EFOU RWY 12 - TORA	2095 M	NIL	1 M
EFOU RWY 12 - TORA	2095 M	NIL	1 M
EFOU RWY 12 - TORA	2501 M	NIL	1 M
EFOU RWY 12 - TODA	2095 M	NIL	1 M
EFOU RWY 12 - TODA	1409 M	NIL	1 M
EFOU RWY 12 - TODA	2095 M	NIL	1 M
EFOU RWY 12 - TODA	2501 M	NIL	1 M
EFOU RWY 12 - ASDA	2095 M	NIL	1 M
EFOU RWY 12 - ASDA	1409 M	NIL	1 M
EFOU RWY 12 - ASDA	2095 M	NIL	1 M
EFOU RWY 12 - ASDA	2501 M	NIL	1 M
EFOU RWY 12 - LDA	2501 M	NIL	1 M
EFOU RWY 30 - TORA	1753 M	NIL	1 M
EFOU RWY 30 - TORA	1447 M	NIL	1 M
EFOU RWY 30 - TORA	2501 M	NIL	1 M
EFOU RWY 30 - TODA	1753 M	NIL	1 M
EFOU RWY 30 - TODA	1447 M	NIL	1 M
EFOU RWY 30 - TODA	2501 M	NIL	1 M
EFOU RWY 30 - ASDA	1753 M	NIL	1 M
EFOU RWY 30 - ASDA	1447 M	NIL	1 M
EFOU RWY 30 - ASDA	2501 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFOU RWY 30 - LDA	2501 M	NIL	1 M
EFPO RWY 12 - DTHR	2351 M	NIL	1 M
EFPO RWY 12 - TORA	2351 M	NIL	1 M
EFPO RWY 12 - TORA	1952 M	NIL	1 M
EFPO RWY 12 - TORA	1435 M	NIL	1 M
EFPO RWY 12 - TORA	1435 M	NIL	1 M
EFPO RWY 12 - TORA	1868 M	NIL	1 M
EFPO RWY 12 - TORA	2251 M	NIL	1 M
EFPO RWY 12 - TODA	2351 M	NIL	1 M
EFPO RWY 12 - TODA	1952 M	NIL	1 M
EFPO RWY 12 - TODA	1435 M	NIL	1 M
EFPO RWY 12 - TODA	1435 M	NIL	1 M
EFPO RWY 12 - TODA	1868 M	NIL	1 M
EFPO RWY 12 - TODA	2251 M	NIL	1 M
EFPO RWY 12 - ASDA	2351 M	NIL	1 M
EFPO RWY 12 - ASDA	1435 M	NIL	1 M
EFPO RWY 12 - ASDA	1952 M	NIL	1 M
EFPO RWY 12 - ASDA	1435 M	NIL	1 M
EFPO RWY 12 - ASDA	1868 M	NIL	1 M
EFPO RWY 12 - ASDA	2251 M	NIL	1 M
EFPO RWY 12 - LDA	2256 M	NIL	1 M
EFPO RWY 30 - DTHR	2351 M	NIL	1 M
EFPO RWY 30 - TORA	2351 M	NIL	1 M
EFPO RWY 30 - TORA	1476 M	NIL	1 M
EFPO RWY 30 - TORA	2006 M	NIL	1 M
EFPO RWY 30 - TODA	1476 M	NIL	1 M
EFPO RWY 30 - TODA	2006 M	NIL	1 M
EFPO RWY 30 - TODA	2351 M	NIL	1 M
EFPO RWY 30 - ASDA	2351 M	NIL	1 M
EFPO RWY 30 - ASDA	1476 M	NIL	1 M
EFPO RWY 30 - ASDA	2006 M	NIL	1 M
EFPO RWY 30 - LDA	2006 M	NIL	1 M
EFPO RWY 17 - TORA	801 M	NIL	1 M
EFPO RWY 17 - TODA	801 M	NIL	1 M
EFPO RWY 17 - ASDA	801 M	NIL	1 M
EFPO RWY 17 - LDA	801 M	NIL	1 M
EFPO RWY 35 - TORA	801 M	NIL	1 M
EFPO RWY 35 - TODA	801 M	NIL	1 M
EFPO RWY 35 - ASDA	801 M	NIL	1 M
EFPO RWY 35 - LDA	801 M	NIL	1 M
EFPR RWY 15 - TORA	1535 M	NIL	1 M
EFPR RWY 15 - TODA	1535 M	NIL	1 M
EFPR RWY 15 - ASDA	1930 M	NIL	1 M
EFPR RWY 15 - LDA	1395 M	NIL	1 M
EFPR RWY 33 - TORA	1395 M	NIL	1 M
EFPR RWY 33 - TODA	1395 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFPR RWY 33 - ASDA	1930 M	NIL	1 M
EFPR RWY 33 - LDA	1535 M	NIL	1 M
EFRO RWY 03 - TORA	2131 M	NIL	1 M
EFRO RWY 03 - TORA	1282 M	NIL	1 M
EFRO RWY 03 - TORA	1802 M	NIL	1 M
EFRO RWY 03 - TORA	1231 M	NIL	1 M
EFRO RWY 03 - TORA	2482 M	NIL	1 M
EFRO RWY 03 - TORA	1802 M	NIL	1 M
EFRO RWY 03 - TORA	3002 M	NIL	1 M
EFRO RWY 03 - TODA	1282 M	NIL	1 M
EFRO RWY 03 - TODA	2131 M	NIL	1 M
EFRO RWY 03 - TODA	1802 M	NIL	1 M
EFRO RWY 03 - TODA	1231 M	NIL	1 M
EFRO RWY 03 - TODA	2482 M	NIL	1 M
EFRO RWY 03 - TODA	1802 M	NIL	1 M
EFRO RWY 03 - TODA	3002 M	NIL	1 M
EFRO RWY 03 - ASDA	2131 M	NIL	1 M
EFRO RWY 03 - ASDA	1282 M	NIL	1 M
EFRO RWY 03 - ASDA	1802 M	NIL	1 M
EFRO RWY 03 - ASDA	1231 M	NIL	1 M
EFRO RWY 03 - ASDA	2482 M	NIL	1 M
EFRO RWY 03 - ASDA	1802 M	NIL	1 M
EFRO RWY 03 - ASDA	3002 M	NIL	1 M
EFRO RWY 03 - LDA	3002 M	NIL	1 M
EFRO RWY 21 - TORA	1800 M	NIL	1 M
EFRO RWY 21 - TORA	1222 M	NIL	1 M
EFRO RWY 21 - TORA	1742 M	NIL	1 M
EFRO RWY 21 - TORA	2523 M	NIL	1 M
EFRO RWY 21 - TORA	2511 M	NIL	1 M
EFRO RWY 21 - TORA	1222 M	NIL	1 M
EFRO RWY 21 - TORA	3002 M	NIL	1 M
EFRO RWY 21 - TODA	1222 M	NIL	1 M
EFRO RWY 21 - TODA	1800 M	NIL	1 M
EFRO RWY 21 - TODA	1742 M	NIL	1 M
EFRO RWY 21 - TODA	2523 M	NIL	1 M
EFRO RWY 21 - TODA	2511 M	NIL	1 M
EFRO RWY 21 - TODA	1222 M	NIL	1 M
EFRO RWY 21 - TODA	3002 M	NIL	1 M
EFRO RWY 21 - ASDA	1800 M	NIL	1 M
EFRO RWY 21 - ASDA	1222 M	NIL	1 M
EFRO RWY 21 - ASDA	1742 M	NIL	1 M
EFRO RWY 21 - ASDA	2523 M	NIL	1 M
EFRO RWY 21 - ASDA	2511 M	NIL	1 M
EFRO RWY 21 - ASDA	1222 M	NIL	1 M
EFRO RWY 21 - ASDA	3002 M	NIL	1 M
EFRO RWY 21 - LDA	3002 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFSA RWY 12 - TORA	1781 M	NIL	1 M
EFSA RWY 12 - TORA	2300 M	NIL	1 M
EFSA RWY 12 - TODA	1781 M	NIL	1 M
EFSA RWY 12 - TODA	2300 M	NIL	1 M
EFSA RWY 12 - ASDA	1781 M	NIL	1 M
EFSA RWY 12 - ASDA	2300 M	NIL	1 M
EFSA RWY 12 - LDA	2300 M	NIL	1 M
EFSA RWY 30 - TORA	2300 M	NIL	1 M
EFSA RWY 30 - TODA	2300 M	NIL	1 M
EFSA RWY 30 - ASDA	2300 M	NIL	1 M
EFSA RWY 30 - LDA	2300 M	NIL	1 M
EFSI RWY 14 - TORA	2000 FT	NIL	1 M
EFSI RWY 14 - TORA	1487 M	NIL	1 M
EFSI RWY 14 - TODA	2000 M	NIL	1 M
EFSI RWY 14 - TODA	1487 M	NIL	1 M
EFSI RWY 14 - ASDA	2000 M	NIL	1 M
EFSI RWY 14 - ASDA	1487 M	NIL	1 M
EFSI RWY 14 - LDA	2000 M	NIL	1 M
EFSI RWY 32 - TORA	2000 M	NIL	1 M
EFSI RWY 32 - TODA	2000 M	NIL	1 M
EFSI RWY 32 - ASDA	2000 M	NIL	1 M
EFSI RWY 32 - LDA	2000 M	NIL	1 M
EFSO RWY 16 - TORA	1500 M	NIL	1 M
EFSO RWY 16 - TODA	1500 M	NIL	1 M
EFSO RWY 16 - ASDA	1500 M	NIL	1 M
EFSO RWY 16 - LDA	1500 M	NIL	1 M
EFSO RWY 34 - TORA	1500 M	NIL	1 M
EFSO RWY 34 - TODA	1500 M	NIL	1 M
EFSO RWY 34 - ASDA	1500 M	NIL	1 M
EFSO RWY 34 - LDA	1500 M	NIL	1 M
EFTP RWY 06 - TORA	2515 M	NIL	1 M
EFTP RWY 06 - TORA	2117 M	NIL	1 M
EFTP RWY 06 - TORA	1815 M	NIL	1 M
EFTP RWY 06 - TORA	2700 M	NIL	1 M
EFTP RWY 06 - TORA	1186 M	NIL	1 M
EFTP RWY 06 - TODA	2515 M	NIL	1 M
EFTP RWY 06 - TODA	2117 M	NIL	1 M
EFTP RWY 06 - TODA	1815 M	NIL	1 M
EFTP RWY 06 - TODA	2700 M	NIL	1 M
EFTP RWY 06 - TODA	1186 M	NIL	1 M
EFTP RWY 06 - ASDA	2117 M	NIL	1 M
EFTP RWY 06 - ASDA	2515 M	NIL	1 M
EFTP RWY 06 - ASDA	1815 M	NIL	1 M
EFTP RWY 06 - ASDA	2700 M	NIL	1 M
EFTP RWY 06 - ASDA	1186 M	NIL	1 M
EFTP RWY 06 - LDA	2700 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFTP RWY 24 - TORA	2036 M	NIL	1 M
EFTP RWY 24 - TORA	2351 M	NIL	1 M
EFTP RWY 24 - TORA	1983 M	NIL	1 M
EFTP RWY 24 - TORA	2700 M	NIL	1 M
EFTP RWY 24 - TORA	1536 M	NIL	1 M
EFTP RWY 24 - TODA	2036 M	NIL	1 M
EFTP RWY 24 - TODA	2351 M	NIL	1 M
EFTP RWY 24 - TODA	1983 M	NIL	1 M
EFTP RWY 24 - TODA	2700 M	NIL	1 M
EFTP RWY 24 - TODA	1536 M	NIL	1 M
EFTP RWY 24 - ASDA	2036 M	NIL	1 M
EFTP RWY 24 - ASDA	2351 M	NIL	1 M
EFTP RWY 24 - ASDA	1983 M	NIL	1 M
EFTP RWY 24 - ASDA	2700 M	NIL	1 M
EFTP RWY 24 - ASDA	1536 M	NIL	1 M
EFTP RWY 24 - LDA	2700 M	NIL	1 M
EFTU RWY 08 - TORA	1815 M	NIL	1 M
EFTU RWY 08 - TORA	2500 M	NIL	1 M
EFTU RWY 08 - TORA	1020 M	NIL	1 M
EFTU RWY 08 - TODA	2500 M	NIL	1 M
EFTU RWY 08 - TODA	1815 M	NIL	1 M
EFTU RWY 08 - TODA	1020 M	NIL	1 M
EFTU RWY 08 - ASDA	2500 M	NIL	1 M
EFTU RWY 08 - ASDA	1815 M	NIL	1 M
EFTU RWY 08 - ASDA	1020 M	NIL	1 M
EFTU RWY 08 - LDA	2500 M	NIL	1 M
EFTU RWY 26 - TORA	2125 M	NIL	1 M
EFTU RWY 26 - TORA	2500 M	NIL	1 M
EFTU RWY 26 - TORA	1675 M	NIL	1 M
EFTU RWY 26 - TORA	1500 M	NIL	1 M
EFTU RWY 26 - TODA	2500 M	NIL	1 M
EFTU RWY 26 - TODA	2125 M	NIL	1 M
EFTU RWY 26 - TODA	1500 M	NIL	1 M
EFTU RWY 26 - TODA	1675 M	NIL	1 M
EFTU RWY 26 - ASDA	1675 M	NIL	1 M
EFTU RWY 26 - ASDA	2500 M	NIL	1 M
EFTU RWY 26 - ASDA	1500 M	NIL	1 M
EFTU RWY 26 - ASDA	2125 M	NIL	1 M
EFTU RWY 26 - LDA	2500 M	NIL	1 M
EFUT RWY 07 - TORA	2000 M	NIL	1 M
EFUT RWY 07 - TORA	1396 M	NIL	1 M
EFUT RWY 07 - TORA	1091 M	NIL	1 M
EFUT RWY 07 - TORA	1514 M	NIL	1 M
EFUT RWY 07 - TODA	2000 M	NIL	1 M
EFUT RWY 07 - TODA	1091 M	NIL	1 M
EFUT RWY 07 - TODA	1396 M	NIL	1 M

Runway declared distance	*Distance*	*Distance Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFUT RWY 07 - TODA	1514 M	NIL	1 M
EFUT RWY 07 - ASDA	2000 M	NIL	1 M
EFUT RWY 07 - ASDA	1091 M	NIL	1 M
EFUT RWY 07 - ASDA	1396 M	NIL	1 M
EFUT RWY 07 - ASDA	1514 M	NIL	1 M
EFUT RWY 07 - LDA	2000 M	NIL	1 M
EFUT RWY 25 - TORA	2000 M	NIL	1 M
EFUT RWY 25 - TORA	918 M	NIL	1 M
EFUT RWY 25 - TODA	2000 M	NIL	1 M
EFUT RWY 25 - TODA	918 M	NIL	1 M
EFUT RWY 25 - ASDA	2000 M	NIL	1 M
EFUT RWY 25 - ASDA	918 M	NIL	1 M
EFUT RWY 25 - LDA	2000 M	NIL	1 M
EFVA RWY 16 - TORA	2500 M	NIL	1 M
EFVA RWY 16 - TODA	2500 M	NIL	1 M
EFVA RWY 16 - ASDA	2500 M	NIL	1 M
EFVA RWY 16 - LDA	2500 M	NIL	1 M
EFVA RWY 34 - TORA	2500 M	NIL	1 M
EFVA RWY 34 - TORA	1529 M	NIL	1 M
EFVA RWY 34 - TORA	2128 M	NIL	1 M
EFVA RWY 34 - TODA	2500 M	NIL	1 M
EFVA RWY 34 - TODA	2128 M	NIL	1 M
EFVA RWY 34 - TODA	1529 M	NIL	1 M
EFVA RWY 34 - ASDA	2500 M	NIL	1 M
EFVA RWY 34 - ASDA	1529 M	NIL	1 M
EFVA RWY 34 - ASDA	2128 M	NIL	1 M
EFVA RWY 34 - LDA	2500 M	NIL	1 M

RWY Ident	*RWY Protection Area Type*	*RWY Protection Area Length*	*RWY Protection Area Width*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*	*6*
EFHK RWY 04R	CWY	60 M	150 M	NIL	1 M
EFHK RWY 22L	CWY	90 M	150 M	NIL	1 M
EFLA RWY 07	CWY	36 M	60 M	NIL	1 M
EFLA RWY 25	CWY	53 M	60 M	NIL	1 M

Marking Ident	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*
NIL	NIL	0.5 M

FATO Ident	*THR Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
EFHK - FATO H16 EFHK - FATO H34	601851N 0245907E 601842N 0245917E	NIL	1 M

Aerodrome designator	*Touch Down Lift Off Designator*	*THR Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFEJ	TLOF	601315N 0244111E	NIL	1 M
EFFH	TLOF	625528N 0274324E	NIL	1 M
EFHK	HELIPAD Y	601833N 0245857E	NIL	1 M

Aerodrome designator	*Touch Down Lift Off Designator*	*THR Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFRO	HELIPAD S	663339N 0255000E	NIL	1 M
Aerodrome designator	*Apron designator*	Coordinates	*Horizontal Accuracy*	*Expected Value*
1	*2*	*3*	*4*	*5*
NIL	NIL	NIL	NIL	1 M
Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFET	1	682132N 0232527E	NIL	0.5 M
EFET	2	682134N 0232531E	NIL	0.5 M
EFET	3	682136N 0232535E	NIL	0.5 M
EFHK	5	601847N 0245831E	NIL	0.5 M
EFHK	6	601848N 0245831E	NIL	0.5 M
EFHK	7	601849N 0245830E	NIL	0.5 M
EFHK	8	601850N 0245829E	NIL	0.5 M
EFHK	9	601852N 0245827E	NIL	0.5 M
EFHK	10	601853N 0245826E	NIL	0.5 M
EFHK	11	601855N 0245825E	NIL	0.5 M
EFHK	12	601856N 0245823E	NIL	0.5 M
EFHK	13	601857N 0245821E	NIL	0.5 M
EFHK	14	601858N 0245820E	NIL	0.5 M
EFHK	15	601900N 0245818E	NIL	0.5 M
EFHK	16	601901N 0245816E	NIL	0.5 M
EFHK	17	601903N 0245815E	NIL	0.5 M
EFHK	18	601904N 0245814E	NIL	0.5 M
EFHK	19	601905N 0245812E	NIL	0.5 M
EFHK	20	601907N 0245811E	NIL	0.5 M
EFHK	21	601908N 0245809E	NIL	0.5 M
EFHK	22	601910N 0245809E	NIL	0.5 M
EFHK	23	601911N 0245808E	NIL	0.5 M
EFHK	24	601912N 0245806E	NIL	0.5 M
EFHK	25	601910N 0245803E	NIL	0.5 M
EFHK	26	601910N 0245801E	NIL	0.5 M
EFHK	27	601908N 0245759E	NIL	0.5 M
EFHK	28	601907N 0245756E	NIL	0.5 M
EFHK	29	601906N 0245754E	NIL	0.5 M
EFHK	30	601905N 0245751E	NIL	0.5 M
EFHK	32	601904N 0245746E	NIL	0.5 M
EFHK	W34	601902N 0245741E	NIL	0.5 M
EFHK	W34A	601903N 0245742E	NIL	0.5 M
EFHK	W34B	601901N 0245741E	NIL	0.5 M
EFHK	W35	601900N 0245738E	NIL	0.5 M
EFHK	W36	601858N 0245733E	NIL	0.5 M
EFHK	W36A	601859N 0245734E	NIL	0.5 M
EFHK	W36B	601857N 0245734E	NIL	0.5 M
EFHK	W40	601856N 0245730E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFHK	W42	601854N 0245727E	NIL	0.5 M
EFHK	S43	601852N 0245735E	NIL	0.5 M
EFHK	W44	601852N 0245723E	NIL	0.5 M
EFHK	S45	601851N 0245730E	NIL	0.5 M
EFHK	S45A	601849N 0245730E	NIL	0.5 M
EFHK	S45B	601851N 0245730E	NIL	0.5 M
EFHK	W46	601851N 0245719E	NIL	0.5 M
EFHK	S47	601849N 0245726E	NIL	0.5 M
EFHK	W48	601849N 0245715E	NIL	0.5 M
EFHK	W48A	601850N 0245715E	NIL	0.5 M
EFHK	W48B	601848N 0245715E	NIL	0.5 M
EFHK	S49	601847N 0245722E	NIL	0.5 M
EFHK	S52	601853N 0245742E	NIL	0.5 M
EFHK	S53	601851N 0245746E	NIL	0.5 M
EFHK	S54	601849N 0245750E	NIL	0.5 M
EFHK	S55	601847N 0245753E	NIL	0.5 M
EFHK	121	601915N 0245804E	NIL	0.5 M
EFHK	122	601914N 0245801E	NIL	0.5 M
EFHK	123	601913N 0245758E	NIL	0.5 M
EFHK	124	601911N 0245754E	NIL	0.5 M
EFHK	125	601909N 0245750E	NIL	0.5 M
EFHK	126	601908N 0245747E	NIL	0.5 M
EFHK	131	601907N 0245736E	NIL	0.5 M
EFHK	132	601906N 0245733E	NIL	0.5 M
EFHK	133	601904N 0245729E	NIL	0.5 M
EFHK	134	601902N 0245726E	NIL	0.5 M
EFHK	171	601843N 0245743E	NIL	0.5 M
EFHK	171A	601844N 0245744E	NIL	0.5 M
EFHK	171B	601843N 0245741E	NIL	0.5 M
EFHK	172	601841N 0245739E	NIL	0.5 M
EFHK	172A	601842N 0245739E	NIL	0.5 M
EFHK	172B	601841N 0245737E	NIL	0.5 M
EFHK	201	601844N 0245829E	NIL	0.5 M
EFHK	202	601843N 0245831E	NIL	0.5 M
EFHK	203	601841N 0245833E	NIL	0.5 M
EFHK	204	601839N 0245834E	NIL	0.5 M
EFHK	206	601836N 0245837E	NIL	0.5 M
EFHK	221	601840N 0245842E	NIL	0.5 M
EFHK	222	601840N 0245843E	NIL	0.5 M
EFHK	222B	601839N 0245844E	NIL	0.5 M
EFHK	223	601840N 0245844E	NIL	0.5 M
EFHK	224	601844N 0245840E	NIL	0.5 M
EFHK	225	601845N 0245839E	NIL	0.5 M
EFHK	301	601834N 0245839E	NIL	0.5 M
EFHK	302	601832N 0245841E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFHK	303	601830N 0245847E	NIL	0.5 M
EFHK	304	601830N 0245849E	NIL	0.5 M
EFHK	305	601830N 0245851E	NIL	0.5 M
EFHK	306	601831N 0245853E	NIL	0.5 M
EFHK	311	601830N 0245846E	NIL	0.5 M
EFHK	312	601830N 0245848E	NIL	0.5 M
EFHK	313	601830N 0245849E	NIL	0.5 M
EFHK	314	601831N 0245850E	NIL	0.5 M
EFHK	315	601830N 0245851E	NIL	0.5 M
EFHK	316	601830N 0245852E	NIL	0.5 M
EFHK	317	601831N 0245853E	NIL	0.5 M
EFHK	318	601831N 0245854E	NIL	0.5 M
EFHK	319	601830N 0245855E	NIL	0.5 M
EFHK	321	601835N 0245847E	NIL	0.5 M
EFHK	322	601835N 0245848E	NIL	0.5 M
EFHK	322B	601835N 0245849E	NIL	0.5 M
EFHK	323	601836N 0245849E	NIL	0.5 M
EFHK	351	601830N 0245853E	NIL	0.5 M
EFHK	352	601830N 0245851E	NIL	0.5 M
EFHK	401	601831N 0245935E	NIL	0.5 M
EFHK	402	601833N 0245935E	NIL	0.5 M
EFHK	403	601835N 0245933E	NIL	0.5 M
EFHK	404	601839N 0245928E	NIL	0.5 M
EFHK	405	601841N 0245927E	NIL	0.5 M
EFHK	406	601842N 0245926E	NIL	0.5 M
EFHK	407	601843N 0245924E	NIL	0.5 M
EFHK	408	601845N 0245923E	NIL	0.5 M
EFHK	411	601846N 0245924E	NIL	0.5 M
EFHK	412	601848N 0245922E	NIL	0.5 M
EFHK	413	601847N 0245920E	NIL	0.5 M
EFHK	600	601951N 0245718E	NIL	0.5 M
EFHK	601	601950N 0245715E	NIL	0.5 M
EFHK	602	601948N 0245712E	NIL	0.5 M
EFHK	603	601946N 0245708E	NIL	0.5 M
EFHK	604	601944N 0245704E	NIL	0.5 M
EFHK	801	601826N 0245632E	NIL	0.5 M
EFHK	802	601827N 0245634E	NIL	0.5 M
EFHK	803	601828N 0245636E	NIL	0.5 M
EFHK	804	601829N 0245638E	NIL	0.5 M
EFHK	805	601831N 0245645E	NIL	0.5 M
EFHK	806	601832N 0245643E	NIL	0.5 M
EFHK	807	601833N 0245640E	NIL	0.5 M
EFHK	808	601834N 0245638E	NIL	0.5 M
EFHK	809	601833N 0245634E	NIL	0.5 M
EFHK	811	601830N 0245615E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFHK	812	601828N 0245612E	NIL	0.5 M
EFHK	813	601827N 0245607E	NIL	0.5 M
EFHK	814	601824N 0245605E	NIL	0.5 M
EFHK	815	601824N 0245603E	NIL	0.5 M
EFHK	816	601823N 0245602E	NIL	0.5 M
EFHK	903	601846N 0245706E	NIL	0.5 M
EFHK	904	601845N 0245703E	NIL	0.5 M
EFHK	905	601844N 0245701E	NIL	0.5 M
EFHK	905A	601844N 0245704E	NIL	0.5 M
EFHK	906	601844N 0245703E	NIL	0.5 M
EFHK	913	601849N 0245656E	NIL	0.5 M
EFHK	914	601848N 0245655E	NIL	0.5 M
EFHK	951	601832N 0245712E	NIL	0.5 M
EFHK	951A	601832N 0245714E	NIL	0.5 M
EFHK	951B	601833N 0245712E	NIL	0.5 M
EFHK	952	601831N 0245716E	NIL	0.5 M
EFHK	961	601829N 0245708E	NIL	0.5 M
EFHK	962	601827N 0245704E	NIL	0.5 M
EFHK	963	601826N 0245700E	NIL	0.5 M
EFIV	1	683633N 0272513E	NIL	0.5 M
EFIV	2	683632N 0272510E	NIL	0.5 M
EFIV	3	683631N 0272506E	NIL	0.5 M
EFIV	4	683630N 0272504E	NIL	0.5 M
EFIV	5	683629N 0272501E	NIL	0.5 M
EFIV	6	683628N 0272500E	NIL	0.5 M
EFIV	7	683627N 0272502E	NIL	0.5 M
EFIV	8	683626N 0272505E	NIL	0.5 M
EFIV	9	683625N 0272508E	NIL	0.5 M
EFJO	1A	623930N 0293651E	NIL	0.5 M
EFJO	1B	623929N 0293651E	NIL	0.5 M
EFJO	2	623930N 0293646E	NIL	0.5 M
EFJY	1	622410N 0254050E	NIL	0.5 M
EFJY	2	622412N 0254047E	NIL	0.5 M
EFJY	3	622414N 0254044E	NIL	0.5 M
EFJY	4	622415N 0254040E	NIL	0.5 M
EFKE	1	654652N 0243437E	NIL	0.5 M
EFKE	1B	654652N 0243438E	NIL	0.5 M
EFKE	2	654654N 0243437E	NIL	0.5 M
EFKI	1	641657N 0274033E	NIL	0.5 M
EFKI	2	641654N 0274035E	NIL	0.5 M
EFKI	2B	641653N 0274035E	NIL	0.5 M
EFKI	3	641652N 0274037E	NIL	0.5 M
EFKI	3B	641653N 0274035E	NIL	0.5 M
EFKK	1	634309N 0230808E	NIL	0.5 M
EFKK	2	634310N 0230805E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFKK	2B	634311N 0230804E	NIL	0.5 M
EFKK	3	634311N 0230802E	NIL	0.5 M
EFKK	3B	634311N 0230804E	NIL	0.5 M
EFKS	1	655946N 0291328E	NIL	0.5 M
EFKS	2	655944N 0291332E	NIL	0.5 M
EFKS	2B	655944N 0291333E	NIL	0.5 M
EFKS	3	655943N 0291337E	NIL	0.5 M
EFKS	3B	655944N 0291333E	NIL	0.5 M
EFKS	4	655941N 0291342E	NIL	0.5 M
EFKS	5	655939N 0291339E	NIL	0.5 M
EFKT	7	674153N 0245120E	NIL	0.5 M
EFKT	8	674152N 0245121E	NIL	0.5 M
EFKT	9	674150N 0245122E	NIL	0.5 M
EFKT	10	674149N 0245123E	NIL	0.5 M
EFKT	11	674147N 0245124E	NIL	0.5 M
EFKT	11B	674146N 0245124E	NIL	0.5 M
EFKT	12	674145N 0245124E	NIL	0.5 M
EFKT	13	674144N 0245126E	NIL	0.5 M
EFKT	13B	674143N 0245126E	NIL	0.5 M
EFKT	14	674142N 0245127E	NIL	0.5 M
EFKT	14B	674141N 0245127E	NIL	0.5 M
EFKT	15	674141N 0245128E	NIL	0.5 M
EFKT	16	674139N 0245129E	NIL	0.5 M
EFKT	17	674138N 0245130E	NIL	0.5 M
EFKT	18	674136N 0245131E	NIL	0.5 M
EFKU	1	630037N 0274721E	NIL	0.5 M
EFKU	2	630036N 0274721E	NIL	0.5 M
EFKU	3	630033N 0274723E	NIL	0.5 M
EFKU	4	630031N 0274725E	NIL	0.5 M
EFLP	1	610240N 0280921E	NIL	0.5 M
EFLP	1A	610240N 0280922E	NIL	0.5 M
EFLP	2	610239N 0280918E	NIL	0.5 M
EFLP	2A	610239N 0280920E	NIL	0.5 M
EFMA	1	600730N 0195425E	NIL	0.5 M
EFMA	2	600729N 0195424E	NIL	0.5 M
EFMA	3	600727N 0195423E	NIL	0.5 M
EFOU	5	645548N 0252205E	NIL	0.5 M
EFOU	6	645547N 0252202E	NIL	0.5 M
EFOU	6B	645546N 0252201E	NIL	0.5 M
EFOU	7	645547N 0252200E	NIL	0.5 M
EFOU	8	645546N 0252203E	NIL	0.5 M
EFOU	9	645545N 0252210E	NIL	0.5 M
EFOU	10	645544N 0252214E	NIL	0.5 M
EFOU	11	645543N 0252218E	NIL	0.5 M
EFOU	12A	645541N 0252221E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFOU	12B	645541N 0252222E	NIL	0.5 M
EFOU	13	645541N 0252225E	NIL	0.5 M
EFOU	13B	645541N 0252225E	NIL	0.5 M
EFOU	14	645540N 0252229E	NIL	0.5 M
EFOU	15	645540N 0252232E	NIL	0.5 M
EFOU	15B	645539N 0252231E	NIL	0.5 M
EFOU	16	645539N 0252237E	NIL	0.5 M
EFPO	1A	612807N 0214727E	NIL	0.5 M
EFPO	1B	612807N 0214726E	NIL	0.5 M
EFPO	2A	612806N 0214729E	NIL	0.5 M
EFPO	2B	612806N 0214729E	NIL	0.5 M
EFPO	3	612805N 0214732E	NIL	0.5 M
EFRO	1	663334N 0255002E	NIL	0.5 M
EFRO	2	663333N 0254958E	NIL	0.5 M
EFRO	3	663333N 0254954E	NIL	0.5 M
EFRO	3B	663334N 0254955E	NIL	0.5 M
EFRO	4	663333N 0254950E	NIL	0.5 M
EFRO	4B	663333N 0254949E	NIL	0.5 M
EFRO	5	663333N 0254946E	NIL	0.5 M
EFRO	5B	663336N 0254944E	NIL	0.5 M
EFRO	6	663332N 0254942E	NIL	0.5 M
EFRO	6B	663333N 0254943E	NIL	0.5 M
EFRO	6C	663332N 0254941E	NIL	0.5 M
EFRO	7	663331N 0254939E	NIL	0.5 M
EFRO	7B	663332N 0254938E	NIL	0.5 M
EFRO	8	663329N 0254935E	NIL	0.5 M
EFRO	8B	663329N 0254931E	NIL	0.5 M
EFRO	8C	663329N 0254930E	NIL	0.5 M
EFRO	9	663328N 0254932E	NIL	0.5 M
EFRO	13	663337N 0254955E	NIL	0.5 M
EFRO	14	663337N 0254951E	NIL	0.5 M
EFRO	15	663337N 0254947E	NIL	0.5 M
EFRO	23	663339N 0254950E	NIL	0.5 M
EFSA	1	615639N 0285555E	NIL	0.5 M
EFSA	2	615639N 0285557E	NIL	0.5 M
EFSA	2B	615639N 0285555E	NIL	0.5 M
EFSI	1	624135N 0224931E	NIL	0.5 M
EFSI	2	624134N 0224932E	NIL	0.5 M
EFTP	A1	612511N 0233647E	NIL	0.5 M
EFTP	B1	612512N 0233705E	NIL	0.5 M
EFTP	A2	612510N 0233651E	NIL	0.5 M
EFTP	B2	612512N 0233703E	NIL	0.5 M
EFTP	A3	612509N 0233652E	NIL	0.5 M
EFTP	B3	612513N 0233707E	NIL	0.5 M
EFTP	A4	612512N 0233653E	NIL	0.5 M

Aerodrome designator	*Aircraft Stand Designator*	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
EFTP	B4	612514N 0233711E	NIL	0.5 M
EFTP	A5	612512N 0233657E	NIL	0.5 M
EFTP	B5	612514N 0233714E	NIL	0.5 M
EFTU	1	603046N 0221633E	NIL	0.5 M
EFTU	2	603046N 0221631E	NIL	0.5 M
EFTU	3	603046N 0221628E	NIL	0.5 M
EFTU	3B	603044N 0221625E	NIL	0.5 M
EFTU	4	603044N 0221627E	NIL	0.5 M
EFTU	5	603042N 0221624E	NIL	0.5 M
EFTU	6	603040N 0221623E	NIL	0.5 M
EFTU	7	603039N 0221621E	NIL	0.5 M
EFTU	8	603045N 0221618E	NIL	0.5 M
EFTU	8A	603045N 0221601E	NIL	0.5 M
EFTU	9	603045N 0221559E	NIL	0.5 M
EFTU	10	603042N 0221558E	NIL	0.5 M
EFTU	11	603040N 0221559E	NIL	0.5 M
EFTU	12	603039N 0221552E	NIL	0.5 M
EFVA	1	630233N 0214540E	NIL	0.5 M
EFVA	2	630234N 0214542E	NIL	0.5 M
EFVA	3	630236N 0214543E	NIL	0.5 M
EFVA	3B	630236N 0214544E	NIL	0.5 M
EFVA	4	630238N 0214541E	NIL	0.5 M
EFVA	5	630240N 0214540E	NIL	0.5 M
EFVA	6	630242N 0214539E	NIL	0.5 M
EFVA	6B	630240N 0214540E	NIL	0.5 M

Taxiway designator	*TWY Element Type*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
NIL	NIL	NIL	0.5 M

Aerodrome designator	*Deicing Area identifier*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
NIL	NIL	NIL	1 M

Aerodrome designator	*Guidance Line designator*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
NIL	NIL	NIL	0.5 M

Aerodrome designator	*Guidance Line designator*	*Elevation*	*Vertical Accuracy*	*Expected value*
1	*2*	*3*	*4*	*5*
NIL	NIL	NIL	NIL	0.25 M

INS checkpoints	*Coordinates*	*Horizontal Accuracy*	*Expected value*
1	*2*	*3*	*4*
NIL	NIL	NIL	0.5 M

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Hälytys (sanoman tyyppitunnus)	ALR	Alerting (message type designator)
Hälytyspalvelu	ALRS	Alerting service
Lähestymisvalojärjestelmä	ALS	Approach lighting system
Korkeus merenpinnasta	ALT	Altitude
Vuorotella, vuorotteleva (valojen väri vuorottelee)	ALTN	Alternate or alternating (light alternates in colour)
Varalentopaikka	ALTN	Alternate (aerodrome)
Korkeusvaraus	*ALTRV	Altitude reservation
Minimi aluekorkeus	AMA	Area minimum altitude
Ilmatilan hallintayksikkö	*AMC	Airspace Management Cell
Muuta, muutettu	AMD	Amend or amended (used in meteorological messages)
AIP:n muutos	AMDT	Amendment (AIP Amendment)
Siirtyvä ilmailuviestipalvelu	AMS	Aeronautical mobile service
Keskimääräisen merenpinnan yläpuolella	AMSL	Above mean sea level
Ilmailukartta 1:500 000 (nimi / tunnus)	ANC	Aeronautical Chart 1:500 000 (followed by name / title)
Pienimittakaavainen ilmailukartta (nimi / tunnus)	ANCS	Aeronautical navigation chart small Scale (followed by name / title and scale)
Vastaus, vastata	ANS	Answer
Lennonvarmistuspalvelu	*ANS	Air navigation service
Ilma-aluksen käyttäjä	AO	Aircraft operator
Lentopaikan estekartta (tyyppi, nimi / tunnus)	AOC	Aerodrome obstacle chart (followed by type and name / title)
Lentoasema	AP	Airport
APAPI-liukukulmavalojärjestelmä	APAPI	Abbreviated precision approach path indicator
Lähestyminen	APCH	Approach
Ilma-aluksen pysäköinti- ja telakoitumiskartta (nimi / tunnus)	APDC	Aircraft parking / docking chart (name / title)
Asemataso	APN	Apron
Lähestymislennonjohto tai lähestymislennonjohtopalvelu	APP	Approach control office or approach control or approach control services
Huhtikuu	APR	April
Likimääräinen, likimääräisesti	APRX	Approximate or approximately
Ohituksen jälkeen	APSG	After passing
Ilma-aluksen lisävoimanlähde	APU	Auxiliary power unit
Lähestymismenetelmä pystysuuntaisella opastuksella	APV	Approach procedure with vertical guidance

Aluekartta	ARC	Area chart
Lentopelastuskeskus	*ARCC	Aeronautical Rescue Co-ordination Centre
Järjestää	ARNG	Arrange
Ilmaliikennepalvelutoimisto	ARO	Air traffic services reporting office
Lentopaikan mittapiste	ARP	Aerodrome reference point
Ilma-aluksen antama tiedotus (sanoman tyyppitunnus)	ARP	Air-report (message type designator)
Automaattinen virheenkorjaus	ARQ	Automatic error correction
Saapumissanoma (sanoman tyypitys)	ARR	Arrival (message type designator)
Saapua tai saapuminen	ARR	Arrive or arrival
Special air report (Lentokoneilmoitukseen pohjautuva, tietyistä sääilmiöistä julkaistava varoitussanoma)	ARS	Special air report (message type designator)
Ilma-aluksen pysäytyslaitteisto	ARST	Arresting (specify (part of) aircraft arresting equipment)
Altostratus (pilvityyppi)	AS	Altostratus
Niin pian kuin mahdollista	ASAP	As soon as possible
Nouse tai nousemassa	ASC	Ascend or ascending to
Ilmatilasuunnittelu	*ASD	Airspace Design
Käytettävissä oleva kiihdytyspysäytysmatka	ASDA	Accelerate-stop distance available
Korkeudenmittauksen järjestelmävirhe	ASE	Altimetry system error
Erityinen NOTAM-sarja, jolla määrättyä kaavaa käyttäen tiedotetaan lentotoiminnan kannalta merkittävästä tulivuoren aktiivisuuden muutoksesta, tulivuoren purkauksesta ja/tai vulkaanisesta tuhkapilvestä	ASHTAM	Special series of NOTAM notifying, by means of a specific format, change in activity of a volcano, a volcanic eruption and/or volcanic ash cloud that is of significance to aircraft operations
Ilmatilan hallinta	*ASM	Airspace management
Asfaltti	ASPH	Asphalt
Esiintyä jonkin yhteydessä	*ASSW	Associated with
Aika, milloin säämuutoksen ennustetaan tapahtuvan	AT...	At (followed by time at which weather change is forecast to occur)
Todellinen laskuaika	ATA	Actual time of arrival
Lennonjohto (yleisesti)	ATC	Air traffic control (in general)
Lennonjohtokeskus	*ATCC	Air traffic control center
Lennonjohdon valvontaminimikorkeuskartta (kartan nimi)	*ATC SMAC...	Air traffic control surveillance minimum altitude chart (followed by name/title)
Todellinen lähtöaika	ATD	Actual time of departure
Air traffic flow and capacity management (ei käännöstä)	*ATFCM	Air traffic flow and capacity management
Ilmaliikennevirtojen säätely	ATFM	Air traffic flow management
Vapautus liikennevirtojen säätelystä	*ATFMX	Exemption from ATFM

Ilmaliikennevirran säätely-yksikkö	FMU	Flow management unit
Loppulähestyminen	FNA	Final approach
Lennonneuvontapalvelut-yksikkö	*FPC	Flight planning centre
Lentomenetelmäsuunnittelu	*FPD	Flight Procedure Design
Lentosuunnitelma	FPL	Flight plan
Jalkaa minuutissa	FPM	Feet per minute
Lentosuunnitelman mukainen reitti	FPR	Flight plan route
Jäljellä oleva polttoaine	FR	Fuel remaining
Free route airspace (ei käännöstä)	*FRA	Free route airspace
Taajuus	FREQ	Frequency
Perjantai	FRI	Friday
Ammunta	FRNG	Firing
Säärintama	FRONT	Front (relating to weather)
Huurre (käytetään lentopaikkavaroituksissa)	FROST	Frost (used in aerodrome warnings)
Tiheä, esiintymistiheys	FRQ	Frequent
Pysäytyslasku tai ilma-aluksen kiitotieltä poistumiseen päättyvä lasku	FSL	Full stop landing
Ensimmäinen	FST	First
Jalka (mittayksikkö)	FT	Feet (dimensional unit)
Lentotekninen virhe	FTE	Flight technical error
Lentotekninen toleranssi	FTT	Flight technical tolerance
Savu	FU	Smoke
Ilmatilan joustava käyttö	*FUA	Flexible use of airspace
Jäätävä	FZ	Freezing
Jäätävä tihku	FZDZ	Freezing drizzle
Jäätävä sumu	FZFG	Freezing fog
Jäätävä vesisade	FZRA	Freezing rain
Jäätävä määrittelemätön sateen olomuoto (AUTO METAR/SPECI)	*FZUP	Freezing unidentified precipitation (used in automated METAR/SPECI)

G

Vihreä	G	Green
Maasta-ilmaan	G/A	Ground-to-air
Maasta ilmaan ja ilmasta maahan	G/A/G	Ground-to-air and air-to-ground

Yleisilmailu	GA	General aviation
Alue-ennuste ilmatilan alaosassa tapahtuville lennoille	GAMET	Area forecast for low-level flights
Yleinen ilmaliikenne	*GAT	General air traffic
Maalaitteisiin perustuva lisäjärjestelmä	GBAS	Ground-based augmentation system
Maasta johdettu tutkalähestymisjärjestelmä	GCA	Ground controlled appproach system or ground controlled approach
Yleistä	GEN	General
Maantieteellinen tai tosi	GEO	Geographic or true
Purjelentokone	GLD	Glider
Purjelento	*GLD	Gliding
Satelliittisuunnistusjärjestelmä	GLONASS	Global orbiting navigation satellite system
Maaliikennekartta (nimi / tunnus)	GMC	Ground movement chart (followed by name / title)
Maa tai maan pinta	GND	Ground
Maassa tapahtuva tarkastus tai mittaus	GNDCK	Ground check
Maailmanlaajuinen satelliittisuunnistusjärjestelmä	GNSS	Global navigation satellite system
Liukupolku	GP	Glide path
Liukupolun kulma	GPA	Glide path angle
Liittymispiste liukupolkuun	GPIP	Glide path intercept point
Maailmanlaajuinen satelliittipaikannusjärjestelmä	GPS	Global positioning system
Valtio, hallitus, hallinto	GOV	Government
Maan läheisyydestä varoittava järjestelmä	GPWS	Ground proximity warning system
Rakeita	GR	Hail
Maalaitteisiin perustuva alueellinen lisäjärjestelmä	GRAS	Ground-based regional augmentation system
Nurmipeitteinen laskeutumisalue	GRASS	Grass landing area
Hilapistearvojen muodossa prosessoitu säätieto (koodattu)	GRIB	Processed meteorological data in the form of grid point values expressed in binary form (in meteorological code)
Sora	GRVL	Gravel
Maanopeus	GS	Ground speed
Pikkurakeita ja/tai lumirakeita	GS	Small hail and/or snow pellets
Geoidin korkeus ellipsoidista	GUND	Geoid undulation

H

Korkeapaineen keskus	H	High pressure centre
Palvelu vuorokauden ympäri	H24	Continuous day and night service

Liukukulmavalojärjestelmä helikoptereita varten	HAPI	Helicopter approach path indicator
Vaaralliset aineet	*HAZMAT	Hazardous material
Varoitusmajakka	HBN	Hazard beacon
HF-suuntimo	HDF	High frequency direction-finding station
Ohjaussuunta	HDG	Heading
Helikopteri	HEL	Helicopter
Suuret taajuudet (3 000 - 30 000 kHz)	HF	High frequency (3 000 - 30 000 kHz)
Korkeus laskettuna maan tai lentopaikan pinnasta	HGT	Height or height above
Auringonnoususta auringonlaskuun	HJ	Sunrise to sunset
Odotus	HLDG	Holding
Helikopterilentopaikka	HLP	Heliport
Helikopterien laskupaikka	HLS	Helicopter landing site
Auringonlaskusta auringonnousuun	HN	Sunset to sunrise
Palveluajat järjestetty tarpeen mukaan	HO	Service available to meet operational requirements
Pyhäpäivä, vapaapäivä	HOL	Holiday
Sairaankuljetusilma-alus	HOSP	Hospital aircraft
Hehtopascal	HPA	Hectopascal
Tuntia	HR	Hours
Helikopterilentopaikan mittapiste	HRP	Heliport reference point
Palvelu aikataulunmukaisen lentotoiminnan aikana	HS	Service available during hours of scheduled operations
Humanitäärinen	HUM	Humanitarian
Yhteensijoitetut HF- ja VHF-suuntimot	HVDF	High and very high frequency direction-finding stations (at the same location)
Painava, raskas	HVY	Heavy
Voimakas, kova, ankara (käytetään kuvaamaan sääilmiön voimakkuutta)	HVY	Heavy (used to indicate the intensity of weather phenomena, e.g. HVY RA = heavy rain)
Ei määrättyjä palveluaikoja	HX	No specific working hours
Korkeampi, korkeammalle	HYR	Higher
Auer	HZ	Haze
Hertziä (sykäystä sekunnissa)	HZ	Hertz (cycle per second)

I

Mittarilähestymiskartta (nimi / tunnus)	IAC	Instrument approach chart (followed by name / title)

Alkulähestymisrasti	IAF	Initial approach fix
Pilven sisään ja pilvestä	IAO	In and out of clouds
Mittarilähestymismenetelmä	IAP	Instrument approach procedure
Lentoreittien leikkauspiste	IAR	Intersection of air routes
Mittarinopeus	IAS	Indicated air speed
Tunnusloisto	IBN	Identification beacon
Kansainvälinen siviili-ilmailujärjestö	ICAO	International Civil Aviation Organization
Jäätäminen	ICE	Icing
Tunnus tai tunnistaa	ID	Identifier or identify
Tunnus	IDENT	Identification
Välirasti	IF	Intermediate approach fix
'Oma kone' -tunnistejärjestelmä	IFF	Identification friend / foe
Lentosuunnitelmatietojen käsittelyjärjestelmä	*IFPS	Integrated initial flight plan processing system
Mittarilentosäännöt	IFR	Instrument flight rules
Kansainvälinen yleisilmailu	IGA	International general aviation
Mittarilaskeutumisjärjestelmä	ILS	Instrument landing system
Sisämerkki	IM	Inner marker
Mittarisääolosuhteet	IMC	Instrument meteorological conditions
Maahanmuutto, passiviranomainen, passintarkastus	IMG	Immigration
Parantua tai parantumassa	IMPR	Improve or improving
Välitön tai välittömästi	IMT	Immediate or immediately
Alkulähestyminen	INA	Initial approach
Sisäänpäin tai tulossa oleva liikenne	INBD	Inbound
Pilvessä	INC	In cloud
Epävarmuustilanne	INCERFA	Uncertainty phase
Yhdistetty, sisällytetty	INCORP	Incorporated
Tieto, tiedot	INFO	Information
Ei toiminnassa oleva	INOP	Inoperative
Jos ei mahdollista	INP	If not possible
Käynnissä, meneillään	INPR	In progress
Inertiasuunnistusjärjestelmä	INS	Inertial navigation system
Asentaa tai asennettu tai asennus	INSTL	Install or installed or installation
Mittari	INSTR	Instrument

Risteys	INT	Intersection
Kansainvälinen	INTL	International
Kyselijä (tutkajärjestelmässä)	INTRG	Interrogator
Keskeyttää tai keskeytys tai keskeytetty	INTRP	Interrupt or interruption or interrupted
Voimistaa, voimistua	INTSF	Intensify or intensifying
Voimakkuus	INTST	Intensity
Jäätä kiitotiellä	IR	Ice on runway
Kansainvälinen standardi-ilmakehä	ISA	International standard atmosphere
Itsenäinen sivukaista	ISB	Independent sideband
Yksittäinen, erillinen	ISOL	Isolated

J

Euroopan ilmailuviranomaisten yhteistyöelin	*JAA	Joint Aviation Authorities
Tammikuu	JAN	January
Suihkuvirtaus	JTST	Jet stream
Heinäkuu	JUL	July
Kesäkuu	JUN	June

K

Kilogramma(a)	KG	Kilograms
Kilohertsi(ä)	KHZ	Kilohertz
Mittarinopeus solmua (KT)	KIAS	Knots indicated airspeed
Kilometri(ä)	KM	Kilometres
Kilometriä tunnissa	KMH	Kilometres per hour
Kilopascal	KPA	Kilopascal
Solmu(a)	KT	Knots
Kilowatti(a)	KW	Kilowatts

L

Litra	L	Litre
Matalapaineen keskus	L	Low pressure centre

Vasen, vasemman puoleinen (rinnakkaiskiitotien tunnuksessa)	...L	Left (preceded by runway designation number to identify a parallel runway)
Lähestymismajakka	L	Locator
Alin käytettävissä oleva lentopinta (käytetään vain sähkeissä)	*LAF	Lowest available flight level (used in messages only)
Sisämaa, sisämaassa	LAN	Inland
Leveyspiiri	LAT	Latitude
Paikallinen, paikoin, paikallisesti, sijainti tai sijaita	LCA	Local or locally or location or located
Laskuun käytettävissä oleva matka	LDA	Landing distance available
Laskeutumiseen käytettävissä oleva matka helikoptereille	LDAH	Landing distance available, helicopter
Lasku	LDG	Landing
Laskeutumiskartta	*LDG	Landing chart
Laskeutumissuunnan osoitin	LDI	Landing direction indicator
Pituus	LEN	Length
Lento- ja sotilassääpalvelu (LEN Etelä tai LEN Pohjoinen)	*LEN...	Aviation and Military Weather Services (LEN South or LEN North)
Matalat taajuudet (30 - 300 kHz)	LF	Low frequency (30 to 300 kHz)
Valo tai valaistus	LGT	Light or lighting
Valaistu	LGTD	Lighted
Suurtehoinen (valovoima)	LIH	Light intensity high
Pientehoinen (valovoima)	LIL	Light intensity low
Keskitehoinen (valovoima)	LIM	Light intensity medium
Linja (käytetään SIGMET-sanomissa)	LINE	Line (used in SIGMET)
Alueellinen sääennuste ilmatilan alaosassa tapahtuvaa ilmailua varten	*LLF	Low Level Forecast
Keskimmäinen lähestymismajakka	LM	Locator, middle
Paikallinen aika	LMT	Local mean time
(äännetään “EL-NAV”) Sivusuuntainen suunnistus	LNAV	(to be pronounced “EL-NAV”) Lateral navigation
Ulompi lähestymismajakka	LO	Locator, outer
Suuntalähetin	LOC	Localizer
Pituuspiiri	LONG	Longitude
Loran (pitkien etäisyyksien suunnistusjärjestelmä)	LORAN	LORAN (long range air navigation system)
Localizer performance with vertical guidance (ei käännöstä)	LPV	Localizer performance with vertical guidance
Pitkä etäisyys, toimintasäde tai kantomatka	LRG	Long range
Rajoitettu	LTD	Limited

Alin käyttökelpoinen lentopinta (perustuu ennustettuihin QNH-arvoihin)	*LUF	Lowest useable flight level
Heikko ja vaihteleva tuuli	LV	Light and variable (relating to wind)
Lentokorkeus, taso, vaakasuora	LVL	Level
Huonon näkyvyyden toimintamenetelmät	LVP	Low visibility procedures
Huonon näkyvyyden toimintamenetelmät lentoonlähtöjä varten	*LVPTO	Low Visibility Procedures for Take-off
Kerros, kerrostunut	LYR	Layer or layered

M

MACH-luku	M	Mach number (followed by figures)
Metri(ä)	M	Metres (preceded by figures)
Kiitotienäkyvyyden minimiarvo (METAR/SPECI)	M…	Minimum value of runway visual range (followed by figures in METAR/SPECI)
Keskeytetty lähestyminen	*MA	Missed approach
Suurin sallittu korkeus (MSL)	MAA	Maximum authorized altitude
Magneettinen	MAG	Magnetic
Keskeytetyn lähestymisen odotusrasti	MAHF	Missed approach holding fix
Huolto	MAINT	Maintenance
Ilmailukartat	MAP	Aeronautical maps and charts
Lähestymisen keskeytyspiste	MAPT	Missed approach point
Merellä	MAR	At sea
Maaliskuu	MAR	March
Sotilaselin ottaa vastuun sotilasilma-alusten porrastamisesta	*MARSA	Military entity assumes responsibility for separation of military aircraft
Keskeytetyn lähestymisen kaartorasti	MATF	Missed approach turning fix
Maksimi, enintään, suurin	MAX	Maximum
Toukokuu	MAY	May
Mikropurkaus	MBST	Microburst
Alin ylityskorkeus tai lävistyskorkeus	MCA	Minimum crossing altitude
Moduloitu jatkuva aalto	MCW	Modulated continuous wave
Minimi laskeutumiskorkeus (MSL)	MDA	Minimum descent altitude
MF-suuntimo	MDF	Medium frequency direction-finding station
Minimi laskeutumiskorkeus (GND)	MDH	Minimum descent height
Minimi reittikorkeus (MSL)	MEA	Minimum en-route altitude

Terveyssyihin perustuva evakuointi	MEDEVAC	Medical emergency evacuation
(Ohjaajan) minimi silmänkorkeus kynnyksen yläpuolella	MEHT	Minimum eye height over threshold (for visual approach slope indicator system)
Ilmatieteellinen, ilmatiede	MET	Meteorological or meteorology
Määräaikainen lentosääsanoma (koodattu)	METAR	Aerodrome routine weather report (in meteorological code)
Määräaikainen, paikallinen lentosääsanoma	MET REPORT	Local routine meteorological report (in meteorological code)
Keskisuuret taajuudet (300 - 3 000 kHz)	MF	Medium frequency (300 to 3 000 kHz)
Minimi odotuskorkeus	MHA	Minimum holding altitude
Yhteensijoitetut MF- ja HF-suuntimot	MHDF	Medium and high frequency direction-finding stations (at the same location)
Yhteensijoitetut MF-, HF- ja VHF-suuntimot	MHVDF	Medium, high and very high frequency direction-finding stations (at the same location)
Megahertsi(ä)	MHZ	Megahertz
Matalaa	*MI	Shallow
Kiitotien keskiosa (käytetään RVR-tiedon yhteydessä)	MID	Mid-point (related to RVR)
Pintasumu	MIFG	Shallow fog
Sotilas-	MIL	Military
Minuutti(a)	MIN	Minutes
Merkkimajakka	MKR	Marker radio beacon
Mikroaaltolaskeutumisjärjestelmä	MLS	Microwave landing system
Keskimerkki	MM	Middle marker
Minimi (arvo)	MNM	Minimum
Minimi suunnistustarkkuusvaatimukset	MNPS	Minimum navigation performance specifications
Valvoa, valvonta tai valvottu (monitorointi)	MNT	Monitor or monitoring or monitored
Ylläpitää tai ylläpidä	MNTN	Maintain
Sotilastoiminta-alue	MOA	Military operating area
Minimi estevara	MOC	Minimum obstacle clearance (required)
Minimi estevarakorkeus	MOCA	Minimum obstacle clearance altitude
Kohtalaista	MOD	Moderate (used to indicate the intensity of weather phenomena, interference or static reports, e.g. MODRA = moderate rain)
Vuorten yläpuolella	MON	Above mountains
Maanantai	MON	Monday
Toiminnalliset vähimmäissuoritusarvovaatimukset	MOPS	Minimum operational performance standards
Liikkua tai liikkuva tai liike	MOV	Move or moving or movement

Metriä sekunnissa	MPS	Metres per second
Minimi radiokuuluvuuskorkeus (MSL)	MRA	Minimum reception altitude
Keskipitkä etäisyys, toimintasäde tai kantomatka	MRG	Medium range
ATS/MET-ilmoittautumispaikka	MRP	ATS/MET reporting point
Miinus	MS	Minus
Minimi sektorikorkeus (MSL)	MSA	Minimum sector altitude
Pienimmän turvallisen korkeuden varoitus	MSAW	Minimum safe altitude warning
Sanoma	MSG	Message
Keskimääräinen merenpinta	MSL	Mean sea level
Monopulssi toisiovalvontatutka	MSSR	Monopulse secondary surveillance radar
Vuori	MT	Mountain
Vuoret pilvien peitossa	*MT OBSC	Mountain obscuration
Suurin sallittu lentoonlähtömassa	MTOM	Maximum take-off mass
Suurin sallittu lentoonlähtömassa	*MTOW	Maximum take-off weight
Metriset yksiköt	MTU	Metric units
Vuoristoaaltoja	MTW	Mountain waves
Yhteensijoitetut MF- ja VHF-suuntimot	MVDF	Medium and very high frequency direction-finding stations (at the same location)
Säävalvonnasta FIR:n alueella vastaava lentosäävalvontakeskus	MWO	Meteorological watch office
Rosojään muodostus	MX	Mixed type of ice formation (white and clear)

N

Pohjoinen tai pohjoista leveyttä	N	North or northern latitude
Ei selvää kehityssuuntaa (RVR-arvo viimeisen 10 minuutin aikana)	N	No distinct tendency (in RVR during previous 10 minutes)
Melunvaimennusmenetelmä lentoonlähtöjä varten	NADP	Noise abatement departure procedure
Kansallinen AIS-järjestelmäkeskus	NASC	National AIS system centre
Pohjois-Atlantin alue	NAT	North Atlantic
Lentosuunnistus	NAV	Navigation
Suunnistuslaite	NAVAID	Navigation aid
Pohjoiseen(päin) suuntautuva	NB	Northbound
Ei ennen kuin	NBFR	Not before
Ei muutosta	NC	No change

Pilviä ei ole havaittu (automaattisissa säähavaintosanomissa)	NCD	No cloud detected (used in automated METAR/SPECI)
Suuntaamaton radiomajakka	NDB	Non-directional radio beacon
Koillinen	NE	North-east
Koilliseen(päin) suuntautuva	NEB	North-eastbound
North European functional airspace block (ei käännöstä)	*NEFAB	North European functional airspace block
Ei, väärin, lupaa ei myönnetä	NEG	No or negative or permission not granted or that is not correct
Yö	NGT	Night
Tietoa ei saatavilla (AIP:ta varten)	*NIA	No information available (for AIP)
Ei mitään tai ei mitään viestitettävää	NIL	None or I have nothing to send to you
New large aeroplanes (ei käännöstä)	*NLA	New large aeroplanes
Merimailia	NM	Nautical miles
Network manager (ei käännöstä)	*NM	Network manager
Network manager operations centre (ei käännöstä)	*NMOC	Network manager operations centre
Normaali	NML	Normal
Pohjoiskoillinen	NNE	North-north-east
Pohjoisluode	NNW	North-north-west
Kansainvälinen NOTAM-toimisto	NOF	International NOTAM office
Merkittävää säätilan muutosta ei ole odotettavissa (käytetään trend-tyyppisissä laskuennusteissa)	NOSIG	No significant change (used in trend-type landing forecasts)
Sähkeitse jaettava tiedotus, joka sisältää sellaisia ilmailun laitteiden perustamista, kuntoa tai muutoksia, samoin kuin ilmailun palveluja, menetelmiä tai vaaratilanteita koskevia tietoja, joiden tunteminen ajoissa on oleellista lentotoiminnan kanssa tekemisissä olevalle henkilöstölle	NOTAM	A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
Kumoava NOTAM	NOTAMC	Cancelling NOTAM
Uusi NOTAM	NOTAMN	New NOTAM
Korvaava NOTAM	NOTAMR	Replacing NOTAM
Marraskuu	NOV	November
Normaalitoiminnan vyöhyke	NOZ	Normal operating zone
Ei-tarkkuuslähestyminen	NPA	Non-precision approach
Numero	NR	Number
Nimbostratus (pilvityyppi)	NS	Nimbostratus
Ei merkittäviä pilviä	NSC	Nil significant cloud

Suunnistuksen järjestelmävirhe	NSE	Navigation system error
Ei merkittäviä sääilmiöitä	NSW	Nil significant weather
Kansallinen	NTL	National
Suojausvyöhyke	NTZ	No transgression zone
Luode	NW	North-west
Luoteeseen(päin) suuntautuva	NWB	North-westbound
Seuraava	NXT	Next

O

Estearviointipinta	OAS	Obstacle assessment surface
Operatiivinen ilmaliikenne	*OAT	Operational air traffic
Ota huomioon, huomattu tai havainto	OBS	Observe or observed or observation
Peitossa tai peittynyt tai peittävä	OBSC	Obscure or obscured or obscuring
Este, lentoeste	OBST	Obstacle
Estevarakorkeus (MSL)	OCA	Obstacle clearance altitude
(Majakan) välähtävä valo	OCC	Occulting (light)
Estevarakorkeus (GND)	OCH	Obstacle clearance height
Satunnainen tai satunnaisesti	OCNL	Occasional or occasionally
Lokakuu	OCT	October
Esteetön alue	OFZ	Obstacle free zone
Estemäärityspinta	OIS	Obstacle identification surface
Ajantasainen tiedonsiirto (kahden tutkan esitysjärjestelmien välillä)	OLDI	On line data interchange
Yläpuolella	OHD	Overhead
Esterajoituspinta	*OLS	Obstacle limitation surface
Ulkomerkki	OM	Outer marker
Huurrejään muodostus	OPA	Opaque, white type of ice formation
Lentotoimintaa koskevat säätiedot	OPMET	Operational meteorological (information)
Auki tai avaus tai avattu	OPN	Open or opening or opened
Lentotoiminnan harjoittaja, toimia, toiminnassa oleva, toimiva tai toiminnallinen	OPR	Operator or operate or operative or operating or operational
Lentotoiminta	OPS	Operations
Pyydettäessä	O/R	On request

Ennuste (käytetään SIGMET-sanomissa koskien VA tai TC)	*OTLK	Outlook (used in SIGMET messages for volcanic ash and tropical cyclones)
Pilven päällä	OTP	On top
Ulospäin suuntautuva tai poistumassa oleva liikenne	OUBD	Outbound
Pilvistä (pilvikerroksen kattavuus 8/8)	OVC	Overcast

P

Kieltoalue (tunnus seuraa)	P...	Prohibited area (followed by identification)
Tuulen nopeuden tai kiitotienäkyvyyden maksimiarvo (METAR/SPECI ja TAF)	P...	Maximum value of wind speed or runway visual range (followed by figures in METAR/SPECI and TAF)
Tarkkuuslähestymismenetelmä	PA	Precision approach procedure
Tarkkuuslähestymisen lähestymisvalojärjestelmä	PALS	Precision approach lighting system (specify category)
Lennonvarmistuspalvelun menetelmät	PANS	Procedures for air navigation services
PAPI-liukukulmavalojärjestelmä	PAPI	Precision approach path indicator
Tarkkuuslähestymistutka	PAR	Precision approach radar
Samansuuntainen	PARL	Parallel
Tarkkuuslähestymisen maastokartta (nimi / tunnus)	PATC	Precision approach terrain chart (followed by name / title)
Matkustaja(t)	PAX	Passenger(s)
Suorituskykyyn perustuva navigointi	PBN	Performance-based-navigation
Ohjaajan kytkettävissä oleva valaistusjärjestelmä	PCL	Pilot controlled lighting
Päällysrakenteen luokitusluku	PCN	Pavement classification number
Prosentti	PCT	Per cent
Menetelmäsuunnittelukaltevuus	PDG	Procedure design gradient
Suoritusarvot	PER	Performance
Pysyvä	PERM	Permanent
Reittitiedote	PIB	Pre-flight information bulletin
Laskuvarjohyppytoiminnan harjoittaminen	PJE	Parachute jumping exercise
Jääjyväsiä	PL	Ice pellets
Ennakkoilmoitus vaaditaan	PN	Prior notice required
Pölypyörteitä	PO	Dust devils
Henkilöluku	POB	Persons on board
Mahdollinen, mahdollista	POSS	Possible
Pyöröpyyhkäisyilmaisin	PPI	Plan position indicator
Ennakkolupa vaaditaan	PPR	Prior permission required

Tämän hetkinen sijainti	PPSN	Present position
Osittain (kattaa osan kentästä)	*PR	Partial
Lentopaikka osin sumun peitossa	PRFG	Aerodrome partially covered by fog
Ensisijainen	PRI	Primary
Paikoitus	PRKG	Parking
Tarkkuusaluesuunnistus	*P-RNAV	Precision area navigation
Todennäköisesti, todennäköisyys	PROB	Probability
Menetelmä	PROC	Procedure
Potkuri	PROP	Propeller
Väliaikainen	PROV	Provisional
Plus	PS	Plus
Ohittava, ohitus	PSG	Passing
Sijainti	PSN	Position
Ensiövalvontatutka	PSR	Primary surveillance radar
RNAV-menetelmän segmentin tyyppikoodi	*P/T	Path terminator
Menetelmäkaarto	PTN	Procedure turn
Teho	PWR	Power

Q

Magneettinen ohjaussuunta (tyynellä)	QDM	Magnetic heading (zero wind)
Magneettinen suuntima	QDR	Magnetic bearing
Ilmanpaine lentopaikan korkeustasossa (tai kiitotien kynnyksellä)	QFE	Atmospheric pressure at aerodrome elevation (or at runway threshold)
Kiitotien magneettinen suunta	QFU	Magnetic orientation of runway
Vakiopaineasetus 1013.2 hPa; käytetään ilmaisemaan ilma-aluksen korkeutta lentopintajärjestelmässä	*QNE	Standard pressure setting
Korkeusmittarin asetus, jolla maassa oltaessa saadaan korkeustaso merenpinnasta	QNH	Altimeter sub-scale setting to obtain elevation when on the ground
Tosisuuntima	QTE	True bearing

R

Kaartonopeus	R	Rate of turn
Punainen	R	Red
Oikea, oikeanpuoleinen (rinnakkaiskiitotien tunnuksessa)	...R	Right (preceded by runway designation number to identify a parallel runway)

Radiaali VOR:lta (kolmella numerolla)	R...	Radial from VOR (followed by three figures)
Rajoitusalue (tunnus seuraa)	R...	Restricted area (followed by identification)
Kiitotie (METAR/SPECI)	R...	Runway (followed by figures in METAR/SPECI)
Vesisade	RA	Rain
Toimintaohje	RA	Resolution advisory
Lentosäännöt ja ilmaliikennepalvelu	RAC	Rules of the air and air traffic services
Reittien käytettävyyttä koskeva dokumentti	*RAD	Route availability document
Repaleinen, epätasainen	RAG	Ragged
Kiitotien jarruverkko tai laitteisto	RAG	Runway arresting gear
Vastaanottimen itsenäinen luotettavuuden valvonta	RAIM	Receiver autonomous integrity monitoring
Reittivaralentopaikka	*RALT	En-route alternate
Säädetty ilmatila	*RAS	Regulated airspace
Alueellinen AIS-järjestelmäkeskus	RASC	Regional AIS system centre
Korkeusmittariasetuksen etälähde	RASS	Remote altimeter setting source
Pelastusvene	RB	Rescue boat
Kiitotien kunnon arviointitaulukko	RCAM	Runway Condition Assessment Matrix
Pelastuskeskus	RCC	Rescue co-ordination centre
Radioyhteyden katkeaminen (sanoman tyyppitunnus)	RCF	Radiocommunication failure (message type designator)
Saavuttaa, saavuttaminen	RCH	Reach or reaching
Kiitotien keskilinja	RCL	Runway centre line
Kiitotien keskilinjavalo(t)	RCLL	Runway centre line light(s)
Viestintäjärjestelmävaatimus	RCP	Required communication performance
ILS:n viitekorkeus	RDH	Reference datum height (for ILS)
Radiaali	RDL	Radial
Radio	RDO	Radio
Radioaktiivinen	RDOACT	Radioactive
Äskettäinen, mennyt (kuvataan mennyttä säätä, esim. RERA)	RE...	Recent (used to qualify weather phenomena, e.g. RE-RA = recent rain)
Vastaanottaa tai vastaanotin	REC	Receive or receiver
Kiitotien reunavalo(t)	REDL	Runway edge light(s)
Viittaus tai viitaten johonkin	REF	Reference to...or refer to...
Rekisteritunnus	REG	Registration
Kiitotien päätevalo(t)	RENL	Runway end light(s)

Ilmoittaa tai ilmoittaminen tai ilmoittautumispaikka	REP	Report or reporting or reporting point
Pyytää tai pyydetty	REQ	Request or requested
Kiitotien pään turva-alue	RESA	Runway end safety area
Palo- ja pelastuspalvelu	RFFS	Rescue and fire fighting services
Korvaava lentosuunnitelma	RFP	Replacement flight plan
Jono, rivi, sarja (valoista)	RG	Range (lights)
Oikeanpuoleinen laskukierros	RHC	Right-hand circuit
Reittimuutos lennon aikana	RIF	Reclearance in flight
Kuura	RIME	Rime
Kiitotien johtovalojärjestelmä	RLLS	Runway lead-in lighting system
Huomautus	RMK	Remark
Radiovyöhyke	*RMZ	Radio mandatory zone
Aluesuunnistus	RNAV	Area navigation (to be pronounced "AR-NAV")
Vaadittu suunnistustarkkuus	RNP	Required navigation performance
Alueellisten OPMET-tietojen vaihto (järjestelmä)	ROBEX	Regional OPMET bulletin exchange (scheme)
Kohoamisnopeus	ROC	Rate of climb
Vajoamisnopeus	ROD	Rate of descent
Reittiennuste (koodattu)	*ROFOR	Route forecast (in meteorological code)
Kauko-ohjatun ilma-aluksen käytön kokonaisjärjestelmä	*RPAS	Remotely piloted aircraft system
Tutkan paikkamerkin osoitin	RPI	Radar position indicator
Toistuvaislentosuunnitelma	RPL	Repetitive flight plan
Korvaa tai korvattu	RPLC	Replace or replaced
Tutkan paikkamerkin symboli	RPS	Radar position symbol
(tai RRB, RRC jne., järjestyksessä) Myöhästynyt meteorologinen sanoma	RRA	(or RRB, RRC etc., in sequence) Delayed meteorological message
Pyyntö	*RQ	Request
Vaatimukset	RQMNTS	Requirements
Pyydetään lentosuunnitelmaa (sanoman tyyppitunnus)	RQP	Request flight plan (message type designator)
Pyydetään täydentävää lentosuunnitelmaa (sanoman tyyppitunnus)	RQS	Request supplementary flight plan (message type designator)
Lohkokeskus (pelastuspalvelu)	RSC	Rescue sub-centre
Kiitotieolosuhteet	RSCD	Runway surface condition
Vastausmajakka	RSP	Responder beacon
Reittivalvontatutka	RSR	En-route surveillance radar

Neliöiden summan neliöjuuri	RSS	Root sum square
Myöhästynyt sääsanoma (sanoman tyyppitunnus)	RTD	Delayed (used to indicate delayed meteorological message; message type designator)
Reitti	RTE	Route
Radiopuhelin	RTF	Radiotelephone
Radiosähke, radiosähkötys	RTG	Radiotelegraph
Kiitotien kynnysvalo(t)	RTHL	Runway threshold light(s)
Paluu, palata, palannut, palaamassa	RTN	Return or returned or returning
Keskeytettyyn lentoonlähtöön käytettävissä oleva matka helikoptereille	RTODAH	Rejected take-off distance available, helicopter
Toimintaan paluu	RTS	Return to service
Radiokaukokirjoitin	RTT	Radioteletypewriter
Kiitotien kosketuskohtavalo(t)	RTZL	Runway touchdown zone light(s)
Alueelliset radiolähetystaajuudet	RUT	Standard regional route transmitting frequencies
Pelastusalus	RV	Rescue vessel
Tutkavektorointialue	RVA	Radar vectoring area
Kiitotienäkyvyys	RVR	Runway visual range
Pienennetty korkeusporrastusminimi (300 M (1000 FT)) lentopintojen FL 290 ja FL 410 välillä	RVSM	Reduced vertical separation minimum (300 M (1000 FT)) between FL 290 and FL 410
Kiitotie	RWY	Runway
Kiitotien kuntoluokka	RWYCC	Runway Condition Code

S

Etelä tai eteläistä leveyttä	S	South or southern latitude
Hiekka	SA	Sand
Yksinkertainen lähestymisvalojärjestelmä	SALS	Simple approach lighting system
Terveydenhoitoa koskeva	SAN	Sanitary
Etsintä ja pelastus(palvelu)	SAR	Search and rescue
Standardit ja suositellut menettelytavat (ICAO)	SARPS	Standards and Recommended Practices (ICAO)
Lauantai	SAT	Saturday
Satelliittiviestintä	SATCOM	Satellite communication
Etelään(päin) suuntautuva	SB	Southbound
Satelliitteihin perustuva lisäjärjestelmä	SBAS	Satellite-based augmentation system
Stratocumulus (pilvityyppi)	SC	Stratocumulus

Pilvikerroksen kattavuus 3/8 - 4/8	SCT	Scattered
Keskihajonta	SD	Standard deviation
Porrasrasti	SDF	Stepdown fix
Kaakko	SE	South-east
Kaakkoon(päin) suuntautuva	SEB	South-eastbound
Sekunti(a)	SEC	Seconds
Sektori	SECT	Sector
Valitseva kutsujärjestelmä	SELCAL	Selective calling system
Syyskuu	SEP	September
Järjestys	*SEQ	Sequence
Palvelu tai palveleva tai palveltu	SER	Service or servicing or served
Euroopan yhteiset lentosäännöt	*SERA	Standardised European Rules of the Air
Ankaraa, kovaa, voimakasta (esim. kuvattaessa jäätämisen ja turbulenssin voimakkuutta)	SEV	Severe (used e.g. to qualify icing and turbulence reports)
Pinta	SFC	Surface
Lumijyväsiä	SG	Snow grains
Merkki	SGL	Signal
Kuurottaista (lisättynä RA, SN, PL, GR, GS tai näiden yhdistelmillä)	SH...	Showers (followed by RA, SN, PL, GR, GS or combinations thereof, e.g. SHRASN = showers of rain and snow)
Supersuuret taajuudet (3 000 - 30 000 MHz)	SHF	Super high frequency (3 000 to 30 000 MHz)
Kansainvälinen yksikköjärjestelmä	SI	International system of units
Vakiolähtöreitti(kartta)	SID	Standard instrument departure (chart)
Merkittävä	SIG	Significant
Säävaroitussanoma reitillä esiintyvistä ja muista lentoturvallisuuteen vaikuttavista sääilmiöistä	SIGMET	Information concerning en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations
Merkittäviä sääilmiöitä	*SIGWX	Significant weather
Samanaikainen tai samanaikaisesti	SIMUL	Simultaneous or simultaneously
Selkeää (käytetään kuvaamaan pilven määrää 0/8)	*SKC	Sky clear
Aikataulu tai aikataulunmukainen	SKED	Schedule or scheduled
Ilmailuvirtojen ohjailussa käytetty aika tai aikaväli, jona ilma-aluksen on ylitettävä määrätty paikka	*SLOT	Slot
Nopeuden rajoituspiste	SLP	Speed limiting point
Hidas	SLW	Slow
Minimi valvonta-aluekorkeus	*SMAA	Surveillance minimum altitude area

Maaliikennevalvonta	SMC	Surface movement control
Maaliikennetutka	SMR	Surface movement radar
Lumi	SN	Snow
Erityinen NOTAM-sarja, jolla määrättyä kaavaa käyttäen tiedotetaan lumen, jään ja sohjon sekä näiden yhteydessä esiintyvän veden aiheuttamista vaarallisista olosuhteista tai niiden poistamisesta lentokentän kenttäalueella	SNOWTAM	Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format
Nousun aloitus	SOC	Start of climb
Paikallinen lentosääsanoma, joka julkaistaan esim. sään muututtua merkittävästi	SPECIAL	Special meteorological report (in abbreviated plain language)
Tunnistuspulssi	SPI	Special position indicator
Täydentävä lentosuunnitelma (sanoman tyyppitunnus)	SPL	Supplementary flight plan (message type designator)
SAR-toiminnassa käytetty yhteydenottopiste	SPOC	SAR point of contact
Tuulen puuskia	SQ	Squall
Puuskarintama	SQL	Squall line
Auringonnousu	SR	Sunrise
Valvontatutkalähestyminen	SRA	Surveillance radar approach
Tarkkuuslähestymistutkajärjestelmän osana toimiva valvontatutka	SRE	Surveillance radar element of precision approach radar system
Lyhyt etäisyys, toimintasäde tai kantomatka	SRG	Short range
Etsintä- ja pelastusalue	SRR	Search and rescue region
Toissijainen	SRY	Secondary
Hiekkamyrsky	SS	Sandsstorm
Auringonlasku	SS	Sunset
Yksisivukaista	SSB	Single sideband
Eteläkaakko	SSE	South-south-east
Toisiovalvontatutka	SSR	Secondary surveillance radar
Ääntä nopeampi lentokone	SST	Supersonic transport
Etelälounas	SSW	South-south-west
Sumupilvi, Stratus	ST	Stratus
Suora lähestyminen	STA	Straight in approach
Vakiotuloreitti(kartta)	STAR	Standard instrument arrival (chart)
Standardi, vakio (esim. vakioilmanpaineasetus)	STD	Standard
Asema	STN	Station
Paikallaan pysyvä, stationäärinen	STNR	Stationary

Lyhyt lentoonlähtö ja laskumatka	STOL	Short take-off and landing
Status (asema, tila, tilanne)	STS	Status
Pysäytystievalo(t)	STWL	Stopway light(s)
Riippuvainen jostakin, jonkun alainen	SUBJ	Subject to
Sunnuntai	SUN	Sunday
AIP:n lisäys (AIP Supplement)	SUP	Supplement (AIP Supplement)
Alueelliset lisämenetelmät	SUPPS	Regional supplementary procedures
Valvonta, tutkavalvonta	*SUR	Surveillance
Virkasähke (sähketyyppi)	SVC	Service message (message type only)
Käyttökelpoinen	SVCBL	Serviceable
Lounas	SW	South-west
Lounaaseen(päin) suuntautuva	SWB	South-westbound
Merkittävän sään kartta	*SWC	Significant Weather Chart
Pysäytystie	SWY	Stopway
Avaruussää	SWX	Space weather
Avaruussääkeskus	SWXC	Space weather centre

T

Lämpötila	T	Temperature
Siirtokorkeus	TA	Transition altitude
Liikennetiedote	TA	Traffic advisory
UHF-taajuuksilla toimiva suunta- ja etäisyysinformaatiota antava lentosuunnistuslaite	TACAN	UHF tactical air navigation aid
Lentopaikkaennuste	TAF	Aerodrome forecast
Myötätuuli	TAIL	Tailwind
Lähtövaralentopaikka	*TALT	Take-off alternate
Lähestymisaluetutka	TAR	Terminal area surveillance radar
Todellinen ilmanopeus	TAS	True airspeed
Rullaus tai rullata	TAX	Taxiing or taxi
Täydennetään myöhemmin	*TBD	To be developed
Trooppinen sykloni, hurrikaani tai taifuuni	TC	Tropical cyclone
Trooppisten hirmumyrskyjen tiedotuskeskus	TCAC	Tropical cyclone advisory centre
(äännetään “TEE-CAS-AR-AY”) Yhteentörmäysvaarasta ilmassa varoittavan järjestelmän antama toimintaohje	TCAS RA	(to be pronounced “TEE-CAS-AR-AY”) Traffic alert and collision avoidance system resolution advisory

Kynnyksen ylityskorkeus	TCH	Threshold crossing height
Tornimainen cumulus (pilvityyppi)	TCU	Towering cumulus
Kosketuskohta-alue	TDZ	Touchdown zone
Tekninen syy	TECR	Technical reason
Puhelin	TEL	Telephone
Ajoittain, tilapäinen, väliaikainen	TEMPO	Temporary or temporarily
Liikenne	TFC	Traffic
Läpilasku	TGL	Touch-and-go landing
Tilapäinen ohjelehtinen	*TGL	Temporary Guidance Leaflet
Rullausopastusjärjestelmä	TGS	Taxiing guidance system
Kynnys	THR	Threshold
Läpi, kautta	THRU	Through
Torstai	THU	Thursday
Ilma-aluksen liikenneilmoitus	TIBA	Traffic information broadcast by aircraft
Saakka, asti	TIL	Until
Kunnes...(paikka) on ohitettu	TIP	Until past...(place)
Liikennetiedotusjärjestelmä	*TIS	Traffic information system
Lähteä lentoon, lentoonlähtö	TKOF	Take off
Aika, milloin säämuutoksen ennustetaan päättyvän	TL...	Till (followed by time by which weather change is forecast to end)
Kosketuskohta- ja ilmaannousualue helikoptereille	TLOF	Touchdown and lift-off area
Lähestymisalue	TMA	Terminal control area
Transponderivyöhyke	*TMZ	Transponder mandatory zone
Minimilämpötila (TAF)	TN...	Minimum temperature (followed by figures in TAF)
Kaartokorkeus (MSL)	TNA	Turn altitude
Kaartokorkeus (GND)	TNH	Turn height
Johonkin (paikkaan)	TO	To...(place)
Target Off Block Time (ei käännöstä)	*TOBT	Target Off Block Time
Lentoonlähtöön käytettävissä oleva matka	TODA	Take-off distance available
Lentoonlähtöön käytössä oleva matka helikoptereille	TODAH	Take-off distance available, helicopter
Pilven yläraja	TOP	Cloud top
Lähtökiitoon käytettävissä oleva matka	TORA	Take-off run available
Kaartopiste	TP	Turning point
Lentosuunta	TR	Track

Tilapäinen ilmatilavarausalue	*TRA	Temporary reserved area (FUA)
Lähettää tai lähetin	TRANS	Transmits or transmitter
Trend ennuste, laskeutumisennuste	TREND	Trend forecast, forecast for landing
Koulutus	TRG	Training
Siirtopinta	TRL	Transition level
Tropopaussi	TROP	Tropopause
Ukkosta ilman sadetta	TS	Thunderstorm (in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome)
Ukkosta ja sadetta (lisättynä seuraavilla: RA, SN, PL, GR, GS tai näiden yhdistelmillä)	TS...	Thunderstorm (followed by RA, SN, PL, GR, GS or combinations thereof, e.g. TSRASN = thunderstorm with rain and snow)
Tilapäinen erillisvarausalue	*TSA	Temporary segregated area
Target start up approval time (ei käännöstä)	*TSAT	Target start up approval time
Tsunami (lentopaikkavaroituksissa)	TSUNAMI	Tsunami (send in aerodrome warnings)
Kaukokirjoitin	TT	Teletypewriter
Tiistai	TUE	Tuesday
Turbulenssi, ilman pyörteisyys	TURB	Turbulence
TVASIS-liukukulmavalojärjestelmä	T-VASIS	T visual approach slope indicator system
Porvarillinen hämärä	*TWIL	Civil twilight
Lennonjohtotorni tai lähilennonjohto	TWR	Aerodrome control tower or aerodrome control
Rullaustie	TWY	Taxiway
Maksimilämpötila (TAF)	TX...	Maximum temperature (followed by figures in TAF)
Rullauskaista	TXL	Taxilane
Ilma-alustyyppi	TYP	Type of aircraft

U

Nouseva (RVR-arvon tendenssi viimeisen 10 minuutin aikana)	U	Upward (tendency in RVR during previous 10 minutes)
Yläaluelennonjohto	UAC	Upper area control centre
Ylälentoreitti	UAR	Upper air route
Miehittämätön ilma-alus	UAS	Unmanned aircraft system
Miehittämätön ilma-alus	*UAV	Unmanned aerial vehicle
UHF-suuntimo	UDF	Ultra high frequency direction-finding station
Kunnes toisin ilmoitetaan, toistaiseksi	UFN	Until further notice
Ultrasuuret taajuudet (300 - 3 000 MHz)	UHF	Ultra high frequency (300 to 3 000 MHz)

Ylälentotiedotuskeskus	UIC	Upper information centre
Ylälentotiedotusalue	UIR	Upper flight information region
Ultrakevyt lentokone	ULM	Ultra light motorized aircraft
Ultrapitkä etäisyys, toimintasäde tai kantomatka	ULR	Ultra long range
Rajoittamaton	UNL	Unlimited
Epäluotettava	UNREL	Unreliable
Määrittelemätön sateen olomuoto (automaattisissa säähavaintosanomissa)	UP	Unidentified precipitation (used in automated METAR/SPECI)
Epäkunnossa	U/S	Unserviceable
Ylälennonjohtoalue	UTA	Upper control area
Koordinoitu maailmanaika	UTC	Co-ordinated Universal Time
Päivitetty ilmatilan käyttösuunnitelma	*UUP	Updated airspace use plan

V

Tuulen suunnan vaihteluväli keskituulesta (METAR/SPECI)	...V...	Variations from the mean wind direction (preceded and followed by figures in METAR/SPECI)
Vulkaanista tuhkaa	VA	Volcanic ash
Vulkaanisen tuhkan tiedotuskeskus	VAAC	Volcanic ash advisory centre
Näkölähestymiskartta (nimi / tunnus)	VAC	Visual approach chart (followed by name / title)
Laaksoissa	VAL	In valleys
Kiitotien valvonta-auto	VAN	Runway control van
Magneettinen eranto	VAR	Magnetic variation
Liukukulmavalojärjestelmä	VASIS	Visual approach slope indicator system
Lentoaseman välitön läheisyys (noin 16 KM säteellä kentästä, lisättynä seuraavilla: BLDU, BLSA, BLSN, DS, FG, FC, PO, SH, SS, TS, VA)	VC	Vicinity of the aerodrome (about 16 KM radius of the aerodrome, followed by BLDU, BLSA, BLSN, DS, FG, FC, PO, SH, SS, TS, VA)
Läheisyys, lähistö	VCY	Vicinity
VHF-suuntimo	VDF	Very high frequency direction-finding station
Visuaalisen telakoitumisen opastinjärjestelmä	*VDGS	Visual docking / parking guidance system
Pysty, pystysuunnassa	VER	Vertical
Näkölentosäännöt	VFR	Visual flight rules
Hyvin suuret taajuudet (30 - 300 MHz)	VHF	Very high frequency (30 to 300 MHz)
Kautta	*VIA	Via
Hyvin tärkeä henkilö	VIP	Very important person
Näkyvyys	VIS	Visibility

Hyvin matalat taajuudet (3 - 30 kHz)	VLF	Very low frequency (3 to 30 kHz)
Näköyhteydellä	*VLOS	Visual line of sight
Hyvin pitkä etäisyys, toimintasäde tai kantomatka	VLR	Very long range
Näkösääolosuhteet	VMC	Visual meteorological conditions
Pystysuuntainen suunnistus (äännetään “VEE-NAV”)	VNAV	Vertical navigation (to be pronounced “VEE-NAV”)
Osa (lisättynä I, II...)	VOL	Volume (followed by I, II...)
Säätiedot lennolla olevalle ilma-alukselle (lähetys)	VOLMET	Meteorological information for aircraft in flight
VHF-monisuuntamajakka	VOR	VHF omnidirectional radio range
VOR- ja TACAN-laitteiden yhdistelmä	VORTAC	VOR and TACAN combination
Lentokoneen VOR-laitteen testauslaite	VOT	VOR airborne equipment test facility
Vaihteleva	VRB	Variable
Maastohavaintoihin perustuva	VSA	By visual reference to the ground
Pystysuora nopeus	VSP	Vertical speed
Visual segment surface (ei käännöstä)	VSS	Visual segment surface
Pystysuuntainen lentoonlähtö ja lasku	VTOL	Vertical take-off and landing
Pystynäkyvyys (METAR/SPECI ja TAF)	VV...	Vertical visibility (followed by figures in METAR/SPECI and TAF)

W

Länsi tai läntistä pituutta	W	West or western longitude
Valkoinen	W	White
Maailman ilmailukartta ICAO 1:1 000 000 (nimi / tunnus)	WAC	World Aeronautical Chart - ICAO 1:1 000 000 (followed by name / title)
Maailman sääennustuskeskus	WAFC	World area forecast centre
Länteen(päin) suuntautuva	WB	Westbound
Sivuorsivalot	WBAR	Wing bar lights
Tuulensuunnan osoitin	WDI	Wind direction indicator
Laajalle ulottuva	WDSPR	Widespread
Keskiviikko	WED	Wednesday
Voimassa...(jostakin ajasta) alkaen	WEF	With effect from or effective from
Kansainvälisestä koordinaattijärjestelmästä - World geodetic system 1984 - käytetty lyhenne	WGS-84	World geodetic system - 1984
Sisällä, sisäpuolella, aikana, välissä	WI	Within
Leveys tai laajuus	WID	Width or wide

Voimassa välittömästi	WIE	With immediate effect or effective immediately
Työt käynnissä	WIP	Work in progress
Heiketä, heikkeneminen	WKN	Weaken or weakening
Länsiluode	WNW	West-north-west
Ilman jotakin	WO	Without
Reittipiste	WPT	Waypoint
Varoitus	WRNG	Warning
Tuuliväänne (wind shear)	WS	Windshear
Tuulen nopeus	WSPD	Wind speed
Länsilounas	WSW	West-south-west
Paino	WT	Weight
Hypertekstipohjainen hajautettu tietopalvelu	WWW	World wide web
Sää	WX	Weather
Säätutka	WXR	Weather radar

X

Risti, risteävä, ylittää	X	Cross
Poikkiorsi (lähestymisvalolinjajärjestelmässä)	XBAR	Crossbar (of approach lighting system)
Risteys, ylitys	XNG	Crossing
Ilmastohäiriöt (radioliikenteessä)	XS	Atmospherics

Y

Keltainen	Y	Yellow
Keltainen varoitusalue (kiitotievaloissa)	YCZ	Yellow caution zone (runway lighting)
Teidän	YR	Your

Z

Koordinoitu maailmanaika (sääsanomissa)	Z	Co-ordinated Universal Time (in meteorological messages)

GEN 3.2 ILMAILUKARTAT

1 VASTAAVA PALVELUNTARJOAJA

Suomen alueen ilmailukartat julkaisee Fintraffic ANS.

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Karttojen valmistuksessa noudatetaan ICAO:n Annex 4:ä sekä muita soveltuvia ICAO:n julkaisuja.

Osa kartoista on Aii Airspace Design:n valmistamia. Kartat ovat tunnistettavissa alareunan tekijänoikeusmerkinnästä

2 KARTTOJEN YLLÄPITO

AIP:hen sisältyvät kartat pidetään ajantasalla ilmailukäsikirjan muutospalvelujen (AMDT) avulla.

Jos julkaistuilla kartoilla havaitaan operatiivisesti merkittäviä virheellisyyksiä, julkaistaan korjaus käsikorjauksella, Supplementilla tai NOTAMilla.

Laadunvarmistus, ks. GEN 3.1. kohta 1.

2.1 Tekijänoikeus

Karttojen tekijänoikeudet on merkitty karttaan.

Fintraffic ANS:n valmistamat kartat sisältävät Maanmittauslaitoksen pohja-aineistoja:

Maastotietokanta, 09/2012
Maastokartta 1:100 000, 10/2013
Maastokartta 1:250 000, 09/2013
Yleiskartta 1:4 500 000, 11/2012

Lisenssi:
https://www.maanmittauslaitos.fi/avoindata-lisenssi-versio1

Aii Airspace Design:n valmistamat kartat sisältävät Maanmittauslaitoksen pohja-aineistoja:

Maastotietokanta, 01/2020
Maastokartta 1:40 000, 01/2020
Maastokartta 1:250 000, 01/2020
Yleiskartta 1:4 500 000, 09/2018

Lisenssi:
https://www.maanmittauslaitos.fi/avoindata-lisenssi-cc40

3 KARTTOJEN MYYNTI

Kartat on saatavilla ilmaiseksi osana AIP:tä osoitteessa www.ais.fi.

4 SAATAVILLA OLEVAT ILMAILUKARTTASARJAT

GEN 3.2 AERONAUTICAL CHARTS

1 RESPONSIBLE SERVICES

The Aeronautical charts for the territory of Finland are published by Fintraffic ANS.

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The charts are produced in accordance with ICAO Annex 4 specification and other pertinent ICAO documents.

Some of the charts are produced by Aii Airspace Design. The charts can be identified by the copyright at the bottom.

2 MAINTENANCE OF CHARTS

The aeronautical charts included in the AIP are kept up to date by amendments to the AIP.

If incorrect information detected on published charts is of operational significance, it is corrected by a hand amendment, Supplement or NOTAM.

Quality Assurance, see GEN 3.1. para 1.

2.1 Copyright

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Topographic Map 1:100 000, 10/2013
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General Map 1:4 500 000, 11/2012

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Topographic Database, 01/2020
Topographic Map 1:40 000, 01/2020
Topographic Map 1:250 000, 01/2020
General Map 1:4 500 000, 09/2018

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https://www.maanmittauslaitos.fi/en/opendata-licence-cc40

3 PURCHASE ARRANGEMENTS

Charts are available free of charge as part of the AIP at www.ais.fi.

4 AERONAUTICAL CHART SERIES AVAILABLE

Reittisuunnistuskartta (ENRC) - ICAO	ENR 6.1	**Enroute Chart (ENRC) - ICAO**

Kartta antaa käyttäjälle ilmaliikennepalvelujärjestelmän mukaisia tietoja, jotka helpottavat suunnistusta ATS-reiteillä. Karttakuvaus sisältää ilmatilat, RNAV-reitit ilmoittautumispaikkoineen, reittisegmenttien pituudet ja magneettiset suunnat. Mittakaava on 1:1 200 000.		This chart provides flight crews with information to facilitate navigation along ATS routes in compliance with air traffic services procedures. It is a presentation of designated airspace and RNAV routes with reporting points, route segment lengths and magnetic bearings. The scale is at 1:1 200 000.
Lentopaikkakartta (ADC) - ICAO	AD 2.4	**Aerodrome Chart (ADC) - ICAO**
Kartan tarkoitus on antaa käyttäjälle tietoja, jotka helpottavat ilma-alusten liikehtimistä kenttäalueella, asematasolta rullausteille ja kiitoteille sekä päinvastoin. Kartalla kuvataan myös tärkeimmät lentopaikoilla sijaitsevat lentotoimintaan liittyvät laitteet. Mittakaavat ovat 1:15 000 ja 1:10 000.		The purpose of this chart is to provide flight crews with information that will facilitate the ground movement of aircraft between the runway and the apron, and to portray the major flight operation facilities at the aerodrome. The scales are at 1:15 000 and 1:10 000.
Ilma-aluksen pysäköinti- ja telakoitumiskartta (APDC) - ICAO	AD 2.5	**Aircraft Parking / Docking Chart (APDC) - ICAO**
Kartan tarkoitus on antaa käyttäjälle yksityiskohtaisia tietoja, jotka helpottavat ilma-alusten liikehtimistä rullausteiltä asematasolle ja päinvastoin sekä pysäköimistä ja telakoitumista. Mittakaavat ovat 1:9 000 ja 1:7 500.		This chart provides flight crews with detailed information to facilitate the ground movement of aircraft between the taxiways and the aircraft stands and the parking/docking of aircraft. The scales are at 1:9 000 and 1:7 500.
Lentopaikan maaliikennekartta (AGMC) - ICAO	AD 2.6	**Aerodrome Ground Movement Chart (AGMC) - ICAO**
Kartta antaa lisätietoja rullausteiden, ilma-alusten seisontapaikkojen ja paikoituspaikkojen sekä telakoitumispaikkojen välillä tapahtuvaa ilma-alusten liikkumista varten. Kartta on julkaistu vain sellaisille lentoasemille, joilla em. tietoja ei voida esittää lentopaikkakartalla (ADC) riittävän selkeästi.		This chart is produced for those aerodromes where, due to congestion of information, details necessary for the ground movement of aircraft along the taxiways to and from the aircraft stands and for the parking/docking of aircraft cannot be shown with sufficient clarity on the Aerodrome/Heliport Chart.
Lentopaikan estekartta (AOC) - ICAO	AD 2.7	**Aerodrome Obstacle Chart (AOC) - ICAO**
Lentopaikan estekartta, A-tyyppi. Kartta on tarkoitettu antamaan liikennöitsijälle tiedot lentoesteistä, jotka sijaitsevat lentoonlähdön noususektorissa. Mittakaava on 1:15 000 (vertikaalikaava 1:1 500). Kartan alareunassa on kerrottu viimeisimmän maastoittauksen ajankohta. Kaikkia kartalla näkyviä estetietoja ei ole välttämättä tarkistettu kyseisenä ajankohtana. Vanhempiin mittauksiin perustuvien puustoesteiden vuosittaista kasvua ei ole huomioitu kartalla. Lentopaikan estekartta B-tyyppiä ei julkaista Suomessa.		Aerodrome Obstacle Chart, Type A (Operating Limitations). The chart is designed to provide the operator with data on obstacle in the take-off sector. The scale is at 1:15 000 horizontal (1:1 500 vertical). The date of the latest ground survey is given at the bottom edge of the chart. All obstacle data has not necessarily been verified at the given date. The annual growth of tree obstacles based on older surveys has not been taken into consideration on this map. Aerodrome Obstacle Chart Type B is not published in Finland.
Lentopaikan maasto- ja estekartta - ICAO (sähköinen)		**Aerodrome Terrain and Obstacle Chart – ICAO (Electronic)**
Lentopaikan maasto- ja estekartta - ICAO (sähköinen) -tiedostoa ei ole Suomessa saatavilla.		Aerodrome Terrain and Obstacle Chart – ICAO (Electronic) is not available in Finland.
Tarkkuuslähestymisen maastokartta (PATC) - ICAO	AD 2.8	**Precision Approach Terrain Chart (PATC) - ICAO**
Kartan tarkoitus on antaa tarkka maastoinformaatio kaikkien kansainväliseen käyttöön tarkoitettujen lentoasemien II ja III kategorioiden kiitoteiden loppulähestymisalueen määrätyltä osalta. Mittakaava on 1:2 500 (vertikaalimittakaava 1:500).		The purpose of this chart is to provide fine grain terrain information within a defined portion of the final approach area for all precision approach runways of categories II and III at aerodromes used by international civil aviation. The scale is at 1:2 500 (1:500 vertical).

Lennonjohdon valvontaminimikorkeuskartta (ATC SMAC) - ICAO	AD 2.9	**ATC surveillance minimum altitude chart (ATC SMAC) - ICAO**
Kartan tarkoitus on mahdollistaa käyttäjälle ATS-valvontajärjestelmää käyttävän lennonjohtajan määräämien korkeuksien valvonta ja tarkistus. Mittakaavat ovat 1:500 000, 1:750 000 ja 1:1 000 000.		The purpose of this chart is to provide information that enables flight crews to monitor and cross-check altitudes as signed by a controller using an ATS surveillance system. The scales are at 1:500 000, 1:750 000 and 1:1 000 000.
Lähtömenetelmät - SID / DEP PROC	AD 2.10	**Departure procedures - SID / DEP PROC**
Vakiolähtöreittikartta (SID) - ICAO Kartta antaa käyttäjälle tiedot, jotka mahdollistavat määritellyn mittarivakiolähtöreitin (SID) noudattamisen len toonlähtövaiheesta reittivaiheeseen saakka. Mittakaavat ovat 1:500 000 ja 1:750 000. **Monisuuntalähdöt - ICAO** Monisuuntalähtömenetelmät ovat lentotoiminnan harjoittajien tai ilma-alusten ohjaajien käyttöön tarkoitettuja laskenta-arvoja, joiden avulla voidaan määrittää lentoon lähdössä tarvittavia parametreja (esim. MTOW).		**Standard Departure Chart - Instrument (SID) - ICAO** This chart provides the flight crew with information to enable them to comply with the designated standard instrument departure route from take off phase to the en-route phase. The scales are at 1:500 000 and 1:750 000. **Omnidirectional departures - ICAO** Omnidirectional departures provide calculated values for operators and flight crew, which can be used when defining take-off parameters (e.g. MTOW).
Aluekartta (ARC) - ICAO	AD 2.11	**Area Chart (ARC) - ICAO**
Kartta on tarkoitettu helpottamaan lentäjien suunnistusta radiolaitteiden avulla tietyllä alueella. Karttakuvaus on pelkistetty käsittämään ilmaliikennepalvelujärjestelmän, radiosuunnistuslaitteet ja muut välttämättömät radiosuunnistuksessa tarvittavat tiedot. Mittakaava on 1:750 000.		The purpose of this chart is to facilitate the task of flight crews in navigation by radio aids in certain area. It is a simplified presentation showing the air traffic services system, radio navigation aids and other aeronautical information essential to navigation by radio within a certain area. The scale is at 1:750 000.
Tulomenetelmät - STAR / INA	AD 2.12	**Arrival procedures - STAR / INA**
Vakiotuloreittikartta (STAR) - ICAO Kartan tarkoitus on antaa käyttäjälle tiedot, jotka mahdollistavat määritellyn mittarivakiotuloreitin (STAR) noudattamisen reittivaiheesta lähestymisvaiheeseen saakka. Mittakaavat ovat 1:500 000 ja 1:750 000. **Alkulähestymiskartta (INA)** Kartan tarkoitus on antaa käyttäjälle tiedot, jotka mahdollistavat määritellyn mittarivakiotuloreitin (STAR) noudattamisen reittivaiheesta lähestymisvaiheeseen saakka. Mittakaavat ovat 1:500 000 ja 1:750 000.		**Standard Arrival Chart - Instrument (STAR) - ICAO** This chart provides the flight crew with information to enable them to comply with the designated standard instrument arrival route from en-route phase to the approach phase. The scales are at 1:500 000 and 1:750 000. **Initial Approach Chart (INA)** This chart is designed to provide the user with a graphic presentation of initial approach routes related to instrument approach procedures. The scales are 1:500 000 and 1:750 000.
Mittarilähestymiskartta (IAC) - ICAO	AD 2.13	**Instrument Approach Chart (IAC) - ICAO**
Kartan tarkoitus on antaa käyttäjälle graafinen esitys mittarilähestymis-, odotus- ja keskeytetyn lähestymisen menetelmistä sekä helpottaa siirtymistä mittarilennosta näkölentoon loppulähestymisvaiheen aikana. Mittakaavat ovat 1:250 000, 1:350 000 ja 1:500 000.		This chart is designed to provide the pilot with a graphic presentation of instrument approach, missed approach and holding procedures and to facilitate the transition from non-visual flight to visual flight at any point in the final approach. The scales are at 1:250 000, 1:350 000 and 1:500 000.
Näkölähestymiskartta (VAC) - ICAO	AD 2.14	**Visual Approach Chart (VAC) - ICAO**

Kartan tarkoitus on antaa käyttäjälle graafinen esitys ao. lentoaseman näkölähestymismenetelmistä. Mittakaavat ovat 1:200 000, 1:250 000 ja 1:350 000.		The purpose of the Visual Approach Charts is to provide the pilot with a graphic presentation of the approach procedures to an aerodrome by visual reference. The scales are at 1:200 000, 1:250 000 and 1:350 000.
Laskeutumiskartta (LDG)	AD 2.14	**Landing Chart (LDG)**
Kartta on suunniteltu antamaan lentopaikasta ja sen ympäristöstä kuvan, joka helpottaa lähestymistä kiitotielle, siirtymistä mittarilennosta näkölentoon näkölähestymis laitteiden ja lentoasemalla sekä sen välittömässä läheisyydessä ilmasta havaittavien tunnisteiden avulla, antaa laskeutumisessa tarvittavia tietoja ja helpottaa nopeata poistumista kiitotieltä laskeutumisen jälkeen. Mittakaavat ovat 1:30 000 ja 1:40 000.		This chart is designed to provide an illustration of the aerodrome and its environs to facilitate the approach to the runway of intended landing and the transition from non-visual to visual flight by reference to visual aids and by recognition from the air of significant features on and with in the immediate vicinity of the aerodrome, to provide information necessary for landing and to facilitate rapid clearance of the runway after landing. The scales are at 1:30 000 and 1:40 000.
Aeronautical data	AD 2.15	**Aeronautical data**
Lentoasemakohtaiset AERONAUTICAL DATA sivut sisältävät julkaistuihin karttoihin liittyvää numeerista tietoa. Jokaiselle lentoasemalle on julkaistu oma AERONAUTICAL DATA sivusto sivunumeroilla AD 2.15.		Aeronautical data for each aerodrome is a collection of numerical data related to charts published for the aerodrome. Own AERONAUTICAL DATA pages are published for each aerodrome on page number AD 2.15.
WAYPOINTS AND FIXES Julkaisu sisältää RNAV menetelmissä käytettyjen reittipisteiden koordinaatit sekä käyttötarkoituksen RNAV menetelmissä. Lisäksi julkaisussa esitetään ainoastaan konventionaalisiin menetelmiin liittyvien reittipisteiden koordinaatit sekä VFR ilmoittautumispaikat. VFR ilmoittautumispaikat ovat uniikkeja ainoastaan HELSINKI FIR alueella.		**WAYPOINTS AND FIXES** This publication contains coordinates and usage for way points used in RNAV procedures. It contains also fixes used only in conventional procedures and VFR reporting points. VFR reporting points are unique only in HELSINKI FIR.
FAS DATA BLOCK APV SBAS menetelmän loppulähestymissegmentin tiedot RNAV lähestymismenetelmässä. Näillä tiedoilla määritetään APV menetelmä ilma-aluksen tietokantaan. FAS Data Block julkaistaan ainoastaan silloin, kun RNAV menetelmässä on julkaistu LPV minimi.		**FAS DATA BLOCK** Final approach segment data for APV SBAS procedures on RNAV approach charts. This data is used to define the procedure in databases used by avionics. FAS Data Block is published only when LPV minima is published on RNAV procedure.
PRD INDEX Sisältää listauksen kartoilla julkaistujen pysyvien kielto-, rajoitus- ja vaara-alueista ja niiden korkeusrajoista. Jotta kartat saataisiin pidettyä selkeinä, ei korkeusrajoja ole esitetty jokaisella lentoaseman kartalla erikseen.		**PRD INDEX** List of permanent prohibited, restricted and danger areas and their vertical limits. In order to avoid clutter on charts, vertical limits are not published on each chart for the aerodrome.
Lintujen kokoontumispaikat lentokentän ympärillä		**Bird concentrations in the vicinity of the aerodrome**
Lintujen kokoontumispaikat lentokentän ympärillä -karttaa ei julkaista Suomessa.		Bird concentrations in the vicinity of the aerodrome chart is not published in Finland.

AIP:ssa on lisäksi erikoistarkoituksia varten laadittuja karttoja.

Incorporated in AIP there are, in addition, miscellaneous charts designated for special purposes.

5 LUETTELO ILMAILUKARTOISTA **5 LIST OF AERONAUTICAL CHARTS AVAILABLE**

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
INDEX	AMA INDEX	ENR 6.1 - 3	05 OCT 2023
	ACC SECTORS	ENR 6.1 - 5	26 JAN 2023
	FRA AREAS	ENR 6.1 - 7 / 8	05 NOV 2020
	RADIO NAVIGATION AIDS	ENR 6.2 - 1	21 APR 2022
	P AREAS	ENR 6.3 - 1	20 APR 2023
	R AREAS	ENR 6.3 - 3	20 APR 2023
	D AREAS	ENR 6.3 - 5	20 APR 2023
	CBA	ENR 6.4 - 1	21 APR 2022
	TRA	ENR 6.4 - 3	20 APR 2023
	TSA	ENR 6.4 - 5	20 APR 2023
	METEOROLOGICAL SERVICES	ENR 6.5 - 1	26 JAN 2023
	AERODROMES AND HELIPORTS	ENR 6.6 - 1	26 JAN 2023
ENRC	ENROUTE CHART - FINLAND	ENR 6.1 - 1	20 APR 2023
ADC	**ENONTEKIÖ**		
	ADC	EFET AD 2.4 - 1	29 DEC 2022
	HALLI		
	ADC	EFHA AD 2.4 - 1	10 AUG 2023
	HELSINKI-VANTAA		
	ADC	EFHK AD 2.4 - 1	10 AUG 2023
	ADC RUNWAY AND TAXIWAY MARKINGS	EFHK AD 2.4 - 3	10 AUG 2023
	IVALO		
	ADC	EFIV AD 2.4 - 1	10 AUG 2023
	JOENSUU		
	ADC	EFJO AD 2.4 - 1	29 DEC 2022
	JYVÄSKYLÄ		
	ADC	EFJY AD 2.4 - 1	10 AUG 2023
	KAJAANI		
	ADC	EFKI AD 2.4 - 1	30 NOV 2023
	KEMI-TORNIO		
	ADC	EFKE AD 2.4 - 1	30 NOV 2023
	KITTILÄ		
	ADC	EFKT AD 2.4 - 1	30 NOV 2023
	KOKKOLA-PIETARSAARI		
	ADC	EFKK AD 2.4 - 1	30 NOV 2023
	KUOPIO		
	ADC	EFKU AD 2.4 - 1	10 AUG 2023
	KUUSAMO		
	ADC	EFKS AD 2.4 - 1	10 AUG 2023
	LAPPEENRANTA		
	ADC	EFLP AD 2.4 - 1	29 DEC 2022
	MARIEHAMN		
	ADC	EFMA AD 2.4 - 1	29 DEC 2022
	MIKKELI		
	ADC	EFMI AD 2.4 - 1	29 DEC 2022

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	OULU		
	ADC	EFOU AD 2.4 - 1	10 AUG 2023
	ADC RUNWAY AND TAXIWAY MARKINGS	EFOU AD 2.4 - 3	05 OCT 2023
	PORI		
	ADC	EFPO AD 2.4 - 1	26 JAN 2023
	ROVANIEMI		
	ADC	EFRO AD 2.4 - 1	10 AUG 2023
	ADC RUNWAY AND TAXIWAY MARKINGS	EFRO AD 2.4 - 3	30 JAN 2020
	SAVONLINNA		
	ADC	EFSA AD 2.4 - 1	10 AUG 2023
	SEINÄJOKI		
	ADC	EFSI AD 2.4 - 1	29 DEC 2022
	TAMPERE-PIRKKALA		
	ADC	EFTP AD 2.4 - 1	10 AUG 2023
	TURKU		
	ADC	EFTU AD 2.4 - 1	29 DEC 2022
	UTTI		
	ADC	EFUT AD 2.4 - 1	10 AUG 2023
	VAASA		
	ADC	EFVA AD 2.4 - 1	29 DEC 2022
APDC	**HELSINKI-VANTAA**		
	APDC	EFHK AD 2.5 - 1	20 APR 2023
	ROVANIEMI		
	APDC	EFRO AD 2.5 - 1	15 JUN 2023
AGMC	**HELSINKI-VANTAA**		
	AGMC	EFHK AD 2.6 - 1	10 AUG 2023
	KUOPIO		
	AGMC	EFKU AD 2.6 - 1	22 APR 2021
	ROVANIEMI		
	AGMC	EFRO AD 2.6 - 1	26 JAN 2023
	TAMPERE-PIRKKALA		
	AGMC	EFTP AD 2.6 - 1	21 APR 2022
	TURKU		
	AGMC	EFTU AD 2.6 - 1	11 AUG 2022
	VAASA		
	AGMC	EFVA AD 2.6 - 1	05 OCT 2023
AOC	**ENONTEKIÖ**		
	AOC RWY 03/21	EFET AD 2.7 - 1	18 JUL 2019
	HALLI		
	AOC RWY 08/26	EFHA AD 2.7 - 1	12 AUG 2021
	HELSINKI-VANTAA		
	AOC RWY 04R/22L	EFHK AD 2.7 - 1	25 APR 2019
	AOC RWY 04L/22R	EFHK AD 2.7 - 3	25 APR 2019
	AOC RWY 15/33	EFHK AD 2.7 - 5	10 AUG 2023
	IVALO		
	AOC RWY 04/22	EFIV AD 2.7 - 1	10 AUG 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	JOENSUU		
	AOC RWY 10/28	EFJO AD 2.7 - 1	12 AUG 2021
	JYVÄSKYLÄ		
	AOC RWY 12/30	EFJY AD 2.7 - 1	28 JAN 2021
	KAJAANI		
	AOC RWY 07/25	EFKI AD 2.7 - 1	05 NOV 2020
	KEMI-TORNIO		
	AOC RWY 18/36	EFKE AD 2.7 -1	15 JUN 2023
	KITTILÄ		
	AOC RWY 16/34	EFKT AD 2.7 - 1	22 APR 2021
	KOKKOLA-PIETARSAARI		
	AOC RWY 01/19	EFKK AD 2.7 - 1	05 OCT 2023
	KUOPIO		
	AOC RWY 15/33	EFKU AD 2.7 - 1	16 JUL 2020
	KUUSAMO		
	AOC RWY 12/30	EFKS AD 2.7 - 1	10 AUG 2023
	LAPPEENRANTA		
	AOC RWY 06/24	EFLP AD 2.7 - 1	10 SEP 2020
	MARIEHAMN		
	AOC RWY 03/21	EFMA AD 2.7 - 1	16 JUL 2020
	MIKKELI		
	AOC RWY 11/29	EFMI AD 2.7 - 1	16 JUL 2020
	OULU		
	AOC RWY 12/30	EFOU AD 2.7 - 1	25 APR 2019
	PORI		
	AOC RWY 12/30	EFPO AD 2.7 - 1	05 NOV 2020
	ROVANIEMI		
	AOC RWY 03/21	EFRO AD 2.7 - 1	30 JAN 2020
	SAVONLINNA		
	AOC RWY 12/30	EFSA AD 2.7 - 1	15 JUN 2023
	SEINÄJOKI		
	AOC RWY 14/32	EFSI AD 2.7 - 1	22 APR 2021
	TAMPERE-PIRKKALA		
	AOC RWY 06/24	EFTP AD 2.7 - 1	02 DEC 2021
	TURKU		
	AOC RWY 08/26	EFTU AD 2.7 - 1	05 DEC 2019
	UTTI		
	AOC RWY 07/25	EFUT AD 2.7 - 1	28 JAN 2021
	VAASA		
	AOC RWY 16/34	EFVA AD 2.7 - 1	18 JUN 2020
PATC	**HELSINKI-VANTAA**		
	PATC RWY 04L	EFHK AD 2.8 - 1	13 NOV 2014
	PATC RWY 22L	EFHK AD 2.8 - 3	13 NOV 2014
	PATC RWY 22R	EFHK AD 2.8 - 5	13 NOV 2014

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	OULU		
	PATC RWY 12	EFOU AD 2.8 - 1	13 NOV 2014
	ROVANIEMI		
	PATC RWY 21	EFRO AD 2.8 - 1	30 MAR 2017
ATC SMAC	**HALLI**		
	ATC SMAC	EFHA AD 2.9 - 1 / 2	18 JUL 2019
	HELSINKI-VANTAA		
	ATC SMAC	EFHK AD 2.9 - 1 / 2	20 APR 2023
	IVALO		
	ATC SMAC	EFIV AD 2.9 - 1 / 2	05 OCT 2023
	JYVÄSKYLÄ		
	ATC SMAC	EFJY AD 2.9 - 1 / 2	20 APR 2023
	KITTILÄ		
	ATC SMAC	EFKT AD 2.9 - 1 / 2	30 NOV 2023
	KUOPIO		
	ATC SMAC	EFKU AD 2.9 - 1 / 2	16 JUN 2022
	MARIEHAMN		
	ATC SMAC	EFMA AD 2.9 - 1 / 2	18 JUN 2020
	OULU		
	ATC SMAC	EFOU AD 2.9 - 1 / 2	20 APR 2023
	PORI		
	ATC SMAC	EFPO AD 2.9 - 1 / 2	20 APR 2023
	ROVANIEMI		
	ATC SMAC	EFRO AD 2.9 - 1 / 2	20 APR 2023
	TAMPERE-PIRKKALA		
	ATC SMAC	EFTP AD 2.9 - 1 / 2	20 APR 2023
	TURKU		
	ATC SMAC	EFTU AD 2.9 - 1 / 2	05 OCT 2023
	VAASA		
	ATC SMAC	EFVA AD 2.9 - 1 / 2	21 APR 2022
SID	**ENONTEKIÖ**		
	OMNIDIRECTIONAL DEPARTURES	EFET AD 2.10 - 1	18 JUL 2019
	HALLI		
	OMNIDIRECTIONAL DEPARTURES	EFHA AD 2.10 - 1 / 2	24 MAY 2018
	HELSINKI-VANTAA		
	RNAV SID RWY 04L	EFHK AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 04R	EFHK AD 2.10 - 3 / 4	20 APR 2023
	RNAV SID PROP RWY 04R	EFHK AD 2.10 - 5 / 6	21 APR 2022
	RNAV SID RWY 15	EFHK AD 2.10 - 7 / 8	20 APR 2023
	RNAV SID RWY 22L	EFHK AD 2.10 - 9 / 10	21 APR 2022
	RNAV SID PROP RWY 22L	EFHK AD 2.10 - 11 / 12	21 APR 2022
	RNAV SID RWY 22R 1/2	EFHK AD 2.10 - 13 / 14	20 APR 2023
	RNAV SID RWY 22R 2/2	EFHK AD 2.10 - 15 / 16	20 APR 2023
	RNAV SID RWY 33	EFHK AD 2.10 - 17 / 18	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFHK AD 2.10 - 19 / 20	05 DEC 2019

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	IVALO		
	RNAV SID RWY 04	EFIV AD 2.10 - 1 / 2	05 OCT 2023
	RNAV SID RWY 22	EFIV AD 2.10 - 3 / 4	05 OCT 2023
	OMNIDIRECTIONAL DEPARTURES	EFIV AD 2.10 - 5	10 AUG 2023
	JOENSUU		
	RNAV SID RWY 10	EFJO AD 2.10 - 1 / 2	30 NOV 2023
	RNAV SID RWY 28	EFJO AD 2.10 - 3 / 4	30 NOV 2023
	OMNIDIRECTIONAL DEPARTURES	EFJO AD 2.10 - 5	12 AUG 2021
	JYVÄSKYLÄ		
	OMNIDIRECTIONAL DEPARTURES	EFJY AD 2.10 - 1	28 JAN 2021
	KAJAANI		
	RNAV SID RWY 07	EFKI AD 2.10 - 1 / 2	22 APR 2021
	RNAV SID RWY 25	EFKI AD 2.10 - 3 / 4	12 AUG 2021
	OMNIDIRECTIONAL DEPARTURES	EFKI AD 2.10 - 5	30 MAR 2017
	KEMI-TORNIO		
	RNAV SID RWY 18	EFKE AD 2.10 - 1 / 2	15 JUN 2023
	RNAV SID RWY 36	EFKE AD 2.10 - 3 / 4	15 JUN 2023
	OMNIDIRECTIONAL DEPARTURES	EFKE AD 2.10 - 5	07 OCT 2021
	KITTILÄ		
	RNAV SID RWY 16	EFKT AD 2.10 - 1 / 2	30 NOV 2023
	RNAV SID RWY 34	EFKT AD 2.10 - 3 / 4	30 NOV 2023
	OMNIDIRECTIONAL DEPARTURES	EFKT AD 2.10 - 5	16 JUN 2022
	KOKKOLA-PIETARSAARI		
	RNAV SID RWY 01	EFKK AD 2.10 - 1 / 2	05 OCT 2023
	RNAV SID RWY 19	EFKK AD 2.10 - 3 / 4	05 OCT 2023
	OMNIDIRECTIONAL DEPARTURES	EFKK AD 2.10 - 5	05 OCT 2023
	KUOPIO		
	RNAV SID RWY 15	EFKU AD 2.10 - 1 / 2	16 JUN 2022
	RNAV SID RWY 33	EFKU AD 2.10 - 3 / 4	16 JUN 2022
	OMNIDIRECTIONAL DEPARTURES	EFKU AD 2.10 - 5	16 JUL 2020
	KUUSAMO		
	RNAV SID RWY 12	EFKS AD 2.10 - 1 / 2	30 NOV 2023
	RNAV SID RWY 30	EFKS AD 2.10 - 3 / 4	30 NOV 2023
	OMNIDIRECTIONAL DEPARTURES	EFKS AD 2.10 - 5	10 AUG 2023
	LAHTI-VESIVEHMAA		
	OMNIDIRECTIONAL DEPARTURES	EFLA AD 2.10 - 1	05 OCT 2023
	LAPPEENRANTA		
	RNAV SID RWY 06	EFLP AD 2.10 - 1 / 2	30 NOV 2023
	RNAV SID RWY 24	EFLP AD 2.10 - 3 / 4	30 NOV 2023
	OMNIDIRECTIONAL DEPARTURES	EFLP AD 2.10 - 5	10 SEP 2020
	MARIEHAMN		
	RNAV SID RWY 03	EFMA AD 2.10 - 1 / 2	27 JAN 2022
	RNAV SID RWY 21	EFMA AD 2.10 - 3 / 4	27 JAN 2022
	OMNIDIRECTIONAL DEPARTURES	EFMA AD 2.10 - 5	27 JAN 2022
	MIKKELI		
	OMNIDIRECTIONAL DEPARTURES	EFMI AD 2.10 - 1 / 2	16 JUL 2020
	OULU		
	RNAV SID RWY 12	EFOU AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 30	EFOU AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFOU AD 2.10 - 5	25 APR 2019

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	PORI		
	RNAV SID RWY 12	EFPO AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 30	EFPO AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFPO AD 2.10 - 5	27 JAN 2022
	ROVANIEMI		
	RNAV SID RWY 03	EFRO AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 21	EFRO AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFRO AD 2.10 - 5	30 JAN 2020
	SAVONLINNA		
	OMNIDIRECTIONAL DEPARTURES	EFSA AD 2.10 - 1	15 JUN 2023
	SEINÄJOKI		
	OMNIDIRECTIONAL DEPARTURES	EFSI AD 2.10 - 1	22 APR 2021
	TAMPERE-PIRKKALA		
	RNAV SID RWY 06	EFTP AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 24	EFTP AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFTP AD 2.10 - 5	19 JUL 2018
	TURKU		
	RNAV SID RWY 08	EFTU AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 26	EFTU AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFTU AD 2.10 - 5	05 DEC 2019
	UTTI		
	RNAV SID RWY 07	EFUT AD 2.10 - 1 / 2	20 APR 2023
	RNAV SID RWY 25	EFUT AD 2.10 - 3 / 4	20 APR 2023
	OMNIDIRECTIONAL DEPARTURES	EFUT AD 2.10 - 5	02 DEC 2021
	VAASA		
	RNAV SID RWY 16	EFVA AD 2.10 - 1 / 2	21 APR 2022
	RNAV SID RWY 34	EFVA AD 2.10 - 3 / 4	21 APR 2022
	OMNIDIRECTIONAL DEPARTURES	EFVA AD 2.10 - 5	21 APR 2022
ARC	**HELSINKI-VANTAA**		
	ARC - EFHK TMA	EFHK AD 2.11 - 1	20 APR 2023
STAR	**HALLI**		
	RNAV STAR RWY 08	EFHA AD 2.12 - 1 / 2	18 JUL 2019
	RNAV STAR RWY 26	EFHA AD 2.12 - 3 / 4	18 JUL 2019
	HELSINKI-VANTAA		
	RNAV STAR RWY 04L 1/2	EFHK AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 04L 2/2	EFHK AD 2.12 - 3 / 4	20 APR 2023
	RNAV STAR RWY 04R	EFHK AD 2.12 - 5 / 6	20 APR 2023
	RNAV STAR RWY 15	EFHK AD 2.12 - 7 / 8	20 APR 2023
	RNAV STAR RWY 22L	EFHK AD 2.12 - 9 / 10	20 APR 2023
	RNAV STAR RWY 22R 1/2	EFHK AD 2.12 - 11 / 12	20 APR 2023
	RNAV STAR RWY 22R 2/2	EFHK AD 2.12 - 13 / 14	20 APR 2023
	RNAV STAR RWY 33	EFHK AD 2.12 - 15 / 16	20 APR 2023
	IVALO		
	RNAV STAR RWY 04	EFIV AD 2.12 - 1 / 2	05 OCT 2023
	RNAV STAR RWY 22	EFIV AD 2.12 - 3 / 4	05 OCT 2023
	JOENSUU		
	RNAV STAR RWY 10	EFJO AD 2.12 - 1 / 2	30 NOV 2023
	RNAV STAR RWY 28	EFJO AD 2.12 - 3 / 4	30 NOV 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	JYVÄSKYLÄ		
	RNAV STAR RWY 12	EFJY AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 30	EFJY AD 2.12 - 3 / 4	20 APR 2023
	NON-RNAV INA RWY 12	EFJY AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 30	EFJY AD 2.12 - 7	20 APR 2023
	KAJAANI		
	RNAV STAR RWY 07	EFKI AD 2.12 - 1 / 2	22 APR 2021
	RNAV STAR RWY 25	EFKI AD 2.12 - 3 / 4	26 JAN 2023
	KEMI-TORNIO		
	RNAV STAR RWY 18	EFKE AD 2.12 - 1 / 2	15 JUN 2023
	RNAV STAR RWY 36	EFKE AD 2.12 - 3 / 4	10 AUG 2023
	KITTILÄ		
	RNAV STAR RWY 16	EFKT AD 2.12 - 1 / 2	30 NOV 2023
	RNAV STAR RWY 34	EFKT AD 2.12 - 3 / 4	30 NOV 2023
	KOKKOLA-PIETARSAARI		
	RNAV STAR RWY 01	EFKK AD 2.12 - 1 / 2	05 OCT 2023
	RNAV STAR RWY 19	EFKK AD 2.12 - 3 / 4	05 OCT 2023
	KUOPIO		
	RNAV STAR RWY 15	EFKU AD 2.12 - 1 / 2	16 JUN 2022
	RNAV STAR RWY 33	EFKU AD 2.12 - 3 / 4	16 JUN 2022
	NON-RNAV INA RWY 15	EFKU AD 2.12 - 5	16 JUN 2022
	NON-RNAV INA RWY 33	EFKU AD 2.12 - 7	16 JUN 2022
	KUUSAMO		
	RNAV STAR RWY 12	EFKS AD 2.12 - 1 / 2	30 NOV 2023
	RNAV STAR RWY 30	EFKS AD 2.12 - 3 / 4	30 NOV 2023
	LAPPEENRANTA		
	RNAV STAR RWY 06	EFLP AD 2.12 - 1 / 2	30 NOV 2023
	RNAV STAR RWY 24	EFLP AD 2.12 - 3 / 4	30 NOV 2023
	MARIEHAMN		
	RNAV STAR RWY 03	EFMA AD 2.12 - 1 / 2	18 JUN 2020
	RNAV STAR RWY 21	EFMA AD 2.12 - 3 / 4	18 JUN 2020
	OULU		
	RNAV STAR RWY 12	EFOU AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 30	EFOU AD 2.12 - 3 / 4	20 APR 2023
	NON-RNAV INA RWY 12	EFOU AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 30	EFOU AD 2.12 - 7	20 APR 2023
	PORI		
	RNAV STAR RWY 12	EFPO AD 2.12 - 1 / 2	15 JUN 2023
	RNAV STAR RWY 30	EFPO AD 2.12 - 3 / 4	15 JUN 2023
	NON-RNAV INA RWY 12	EFPO AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 30	EFPO AD 2.12 - 7	20 APR 2023
	ROVANIEMI		
	RNAV STAR RWY 03	EFRO AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 21	EFRO AD 2.12 - 3 / 4	20 APR 2023
	NON-RNAV INA RWY 03	EFRO AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 21	EFRO AD 2.12 - 7	20 APR 2023
	SAVONLINNA		
	RNAV STAR RWY 12	EFSA AD 2.12 - 1 / 2	30 NOV 2023
	RNAV STAR RWY 30	EFSA AD 2.12 - 3 / 4	30 NOV 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	TAMPERE-PIRKKALA		
	RNAV STAR RWY 06	EFTP AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 24	EFTP AD 2.12 - 3 / 4	20 APR 2023
	NON-RNAV INA RWY 06	EFTP AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 24	EFTP AD 2.12 - 7	20 APR 2023
	TURKU		
	RNAV STAR RWY 08	EFTU AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 26	EFTU AD 2.12 - 3 / 4	20 APR 2023
	NON-RNAV INA RWY 08	EFTU AD 2.12 - 5	20 APR 2023
	NON-RNAV INA RWY 26	EFTU AD 2.12 - 7	20 APR 2023
	UTTI		
	RNAV STAR RWY 07	EFUT AD 2.12 - 1 / 2	20 APR 2023
	RNAV STAR RWY 25	EFUT AD 2.12 - 3 / 4	20 APR 2023
	VAASA		
	RNAV STAR RWY 16	EFVA AD 2.12 - 1 / 2	21 APR 2022
	RNAV STAR RWY 34	EFVA AD 2.12 - 3 / 4	21 APR 2022
	NON-RNAV INA RWY 16	EFVA AD 2.12 - 5	30 NOV 2023
	NON-RNAV INA RWY 34	EFVA AD 2.12 - 7	30 NOV 2023
IAC	**ENONTEKIÖ**		
	RNP RWY 03	EFET AD 2.13 - 1 / 2	29 DEC 2022
	ILS or LOC RWY 21	EFET AD 2.13 - 3 / 4	18 JUL 2019
	RNP RWY 21	EFET AD 2.13 - 5 / 6	29 DEC 2022
	HALLI		
	RNP RWY 08	EFHA AD 2.13 - 1 / 2	29 DEC 2022
	ILS Z or LOC Z RWY 26	EFHA AD 2.13 - 3 / 4	18 JUL 2019
	ILS Y or LOC Y RWY 26	EFHA AD 2.13 - 5	18 JUL 2019
	RNP RWY 26	EFHA AD 2.13 - 7 / 8	29 DEC 2022
	VOR RWY 26	EFHA AD 2.13 - 9	18 JUL 2019
	HELSINKI-VANTAA		
	ILS or LOC RWY 04L	EFHK AD 2.13 - 1	22 APR 2021
	ILS RWY 04L CAT II & III	EFHK AD 2.13 - 3	22 APR 2021
	RNP RWY 04L	EFHK AD 2.13 - 5 / 6	29 DEC 2022
	ILS or LOC RWY 04R	EFHK AD 2.13 - 7	22 APR 2021
	RNP RWY 04R	EFHK AD 2.13 - 9 / 10	29 DEC 2022
	ILS or LOC RWY 15	EFHK AD 2.13 - 11	22 APR 2021
	RNP RWY 15	EFHK AD 2.13 - 13 / 14	29 DEC 2022
	ILS or LOC RWY 22L	EFHK AD 2.13 - 15	22 APR 2021
	ILS RWY 22L CAT II	EFHK AD 2.13 - 17	22 APR 2021
	RNP RWY 22L	EFHK AD 2.13 - 19 / 20	29 DEC 2022
	ILS or LOC RWY 22R	EFHK AD 2.13 - 21	22 APR 2021
	ILS RWY 22R CAT II & III	EFHK AD 2.13 - 23	17 JUN 2021
	RNP RWY 22R	EFHK AD 2.13 - 25 / 26	29 DEC 2022
	RNP RWY 33	EFHK AD 2.13 - 27 / 28	29 DEC 2022
	VOR RWY 33	EFHK AD 2.13 - 29	22 APR 2021
	COPTER ILS RWY 04R	EFHK AD 2.13 - 31 / 32	22 APR 2021
	IVALO		
	RNP RWY 04	EFIV AD 2.13 - 1 / 2	05 OCT 2023
	ILS or LOC RWY 22	EFIV AD 2.13 - 3 / 4	05 OCT 2023
	RNP RWY 22	EFIV AD 2.13 - 5 / 6	05 OCT 2023
	JOENSUU		
	RNP RWY 10	EFJO AD 2.13 - 1 / 2	20 APR 2023
	ILS or LOC RWY 28	EFJO AD 2.13 - 3 / 4	20 APR 2023
	RNP RWY 28	EFJO AD 2.13 - 5 / 6	20 APR 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	JYVÄSKYLÄ		
	RNP RWY 12	EFJY AD 2.13 - 1 / 2	20 APR 2023
	VOR RWY 12	EFJY AD 2.13 - 3	20 APR 2023
	ILS Z or LOC Z RWY 30	EFJY AD 2.13 - 5 / 6	20 APR 2023
	ILS Y or LOC Y RWY 30	EFJY AD 2.13 - 7	20 APR 2023
	RNP RWY 30	EFJY AD 2.13 - 9 / 10	20 APR 2023
	VOR RWY 30	EFJY AD 2.13 - 11	20 APR 2023
	KAJAANI		
	ILS or LOC RWY 07	EFKI AD 2.13 - 1 / 2	05 NOV 2020
	RNP RWY 07	EFKI AD 2.13 - 3 / 4	29 DEC 2022
	RNP RWY 25	EFKI AD 2.13 - 5 / 6	29 DEC 2022
	KAUHAVA		
	RNP RWY 17	EFKA AD 2.13 - 1 / 2	26 JAN 2023
	RNP RWY 35	EFKA AD 2.13 - 3 / 4	26 JAN 2023
	KEMI-TORNIO		
	ILS or LOC RWY 18	EFKE AD 2.13 - 1 / 2	15 JUN 2023
	RNP RWY 18	EFKE AD 2.13 - 3 / 4	15 JUN 2023
	RNP RWY 36	EFKE AD 2.13 - 5 / 6	15 JUN 2023
	KITTILÄ		
	LOC Z RWY 16	EFKT AD 2.13 - 1 / 2	30 NOV 2023
	LOC Y RWY 16	EFKT AD 2.13 - 3	30 NOV 2023
	RNP RWY 16	EFKT AD 2.13 - 5 / 6	30 NOV 2023
	ILS Z or LOC Z RWY 34	EFKT AD 2.13 - 7 / 8	30 NOV 2023
	ILS Y or LOC Y RWY 34	EFKT AD 2.13 - 9	30 NOV 2023
	RNP RWY 34	EFKT AD 2.13 - 11 / 12	30 NOV 2023
	KOKKOLA-PIETARSAARI		
	RNP RWY 01	EFKK AD 2.13 - 1 / 2	05 OCT 2023
	ILS or LOC RWY 19	EFKK AD 2.13 - 3 / 4	30 NOV 2023
	RNP RWY 19	EFKK AD 2.13 - 5 / 6	05 OCT 2023
	KUOPIO		
	RNP RWY 15	EFKU AD 2.13 - 1 / 2	15 JUN 2023
	VOR RWY 15	EFKU AD 2.13 - 3	16 JUN 2022
	ILS Z or LOC Z RWY 33	EFKU AD 2.13 - 5 / 6	16 JUN 2022
	ILS Y or LOC Y RWY 33	EFKU AD 2.13 - 7	16 JUN 2022
	RNP RWY 33	EFKU AD 2.13 - 9 / 10	15 JUN 2023
	KUUSAMO		
	ILS or LOC RWY 12	EFKS AD 2.13 - 1 / 2	30 NOV 2023
	RNP RWY 12	EFKS AD 2.13 - 3 / 4	30 NOV 2023
	RNP RWY 30	EFKS AD 2.13 - 5 / 6	30 NOV 2023
	LAHTI-VESIVEHMAA		
	RNP RWY 25	EFLA AD 2.13 - 1 / 2	26 JAN 2023
	LAPPEENRANTA		
	ILS or LOC RWY 06	EFLP AD 2.13 - 1 / 2	30 NOV 2023
	RNP RWY 06	EFLP AD 2.13 - 3 / 4	30 NOV 2023
	RNP RWY 24	EFLP AD 2.13 - 5 / 6	30 NOV 2023
	MARIEHAMN		
	RNP RWY 03	EFMA AD 2.13 - 1 / 2	29 DEC 2022
	VOR RWY 03	EFMA AD 2.13 - 3	16 JUN 2022
	ILS Z or LOC Z RWY 21	EFMA AD 2.13 - 5 / 6	18 JUN 2020
	ILS Y or LOC Y RWY 21	EFMA AD 2.13 - 7	16 JUN 2022
	RNP RWY 21	EFMA AD 2.13 - 9 / 10	29 DEC 2022

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	MIKKELI		
	ILS Z or LOC Z RWY 11	EFMI AD 2.13 - 1 / 2	16 JUL 2020
	ILS Y or LOC Y RWY 11	EFMI AD 2.13 - 3	16 JUL 2020
	RNP RWY 11	EFMI AD 2.13 - 5 / 6	29 DEC 2022
	NDB RWY 11	EFMI AD 2.13 - 7	16 JUL 2020
	RNP RWY 29	EFMI AD 2.13 - 9 / 10	29 DEC 2022
	NDB RWY 29	EFMI AD 2.13 - 11	16 JUL 2020
	NUMMELA		
	RNP RWY 04	EFNU AD 2.13 - 1 / 2	20 APR 2023
	OULU		
	ILS Z or LOC Z RWY 12	EFOU AD 2.13 - 1 / 2	23 APR 2020
	ILS Z RWY 12 CAT II	EFOU AD 2.13 - 3 / 4	23 APR 2020
	ILS Y or LOC Y RWY 12	EFOU AD 2.13 - 5	21 APR 2022
	ILS Y RWY 12 CAT II	EFOU AD 2.13 - 7	21 APR 2022
	RNP RWY 12	EFOU AD 2.13 - 9 / 10	05 OCT 2023
	VOR RWY 12	EFOU AD 2.13 - 11	21 APR 2022
	RNP RWY 30	EFOU AD 2.13 - 13 / 14	05 OCT 2023
	VOR RWY 30	EFOU AD 2.13 - 15	05 OCT 2023
	PORI		
	RNP RWY 12	EFPO AD 2.13 - 1 / 2	29 DEC 2022
	VOR RWY 12	EFPO AD 2.13 - 3	11 AUG 2022
	ILS Z or LOC Z RWY 30	EFPO AD 2.13 - 5 / 6	06 DEC 2018
	ILS Y or LOC Y RWY 30	EFPO AD 2.13 - 7	11 AUG 2022
	RNP RWY 30	EFPO AD 2.13 - 9 / 10	29 DEC 2022
	VOR RWY 30	EFPO AD 2.13 - 11	11 AUG 2022
	REDSTONE AERO		
	RNP RWY 15	EFPR AD 2.13 - 1 / 2	30 NOV 2023
	RNP RWY 33	EFPR AD 2.13 - 3 / 4 / 5	30 NOV 2023
	ROVANIEMI		
	RNP RWY 03	EFRO AD 2.13 - 1 / 2	29 DEC 2022
	VOR RWY 03	EFRO AD 2.13 - 3	22 APR 2021
	ILS Z or LOC Z RWY 21	EFRO AD 2.13 - 5 / 6	30 JAN 2020
	ILS Z RWY 21 CAT II	EFRO AD 2.13 - 7 / 8	30 JAN 2020
	ILS Y or LOC Y RWY 21	EFRO AD 2.13 - 9	30 JAN 2020
	ILS Y RWY 21 CAT II	EFRO AD 2.13 - 11	30 JAN 2020
	RNP RWY 21	EFRO AD 2.13 - 13 / 14	29 DEC 2022
	VOR RWY 21	EFRO AD 2.13 - 15	22 APR 2021
	SAVONLINNA		
	ILS or LOC RWY 12	EFSA AD 2.13 - 1 / 2	15 JUN 2023
	RNP RWY 12	EFSA AD 2.13 - 3 / 4	15 JUN 2023
	RNP RWY 30	EFSA AD 2.13 - 5 / 6	15 JUN 2023
	SEINÄJOKI		
	RNP RWY 14	EFSI AD 2.13 - 1 / 2	29 DEC 2022
	NDB RWY 14	EFSI AD 2.13 - 3	05 OCT 2023
	ILS Z or LOC Z RWY 32	EFSI AD 2.13 - 5 / 6	21 APR 2022
	ILS Y or LOC Y RWY 32	EFSI AD 2.13 - 7	05 OCT 2023
	RNP RWY 32	EFSI AD 2.13 - 9 / 10	29 DEC 2022
	NDB RWY 32	EFSI AD 2.13 - 11	05 OCT 2023
	SODANKYLÄ		
	RNP RWY 16	EFSO AD 2.13 - 1 / 2	26 JAN 2023
	RNP RWY 34	EFSO AD 2.13 - 3 / 4	26 JAN 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	TAMPERE-PIRKKALA		
	RNP RWY 06	EFTP AD 2.13 - 1 / 2	29 DEC 2022
	VOR RWY 06	EFTP AD 2.13 - 3	06 OCT 2022
	ILS Z or LOC Z RWY 24	EFTP AD 2.13 - 5 / 6	06 OCT 2022
	ILS Y or LOC Y RWY 24	EFTP AD 2.13 - 7	06 OCT 2022
	RNP RWY 24	EFTP AD 2.13 - 9 / 10	29 DEC 2022
	VOR RWY 24	EFTP AD 2.13 - 11	06 OCT 2022
	TURKU		
	RNP RWY 08	EFTU AD 2.13 - 1 / 2	20 APR 2023
	VOR RWY 08	EFTU AD 2.13 - 3	20 APR 2023
	ILS Z or LOC Z RWY 26	EFTU AD 2.13 - 5 / 6	20 APR 2023
	ILS Y or LOC Y RWY 26	EFTU AD 2.13 - 7	20 APR 2023
	RNP RWY 26	EFTU AD 2.13 - 9 / 10	20 APR 2023
	VOR RWY 26	EFTU AD 2.13 - 11	20 APR 2023
	UTTI		
	RNP RWY 07	EFUT AD 2.13 - 1 / 2	20 APR 2023
	VOR RWY 07	EFUT AD 2.13 - 3	20 APR 2023
	ILS Z or LOC Z RWY 25	EFUT AD 2.13 - 5 / 6	20 APR 2023
	ILS Y or LOC Y RWY 25	EFUT AD 2.13 - 7	20 APR 2023
	RNP RWY 25	EFUT AD 2.13 - 9 / 10	20 APR 2023
	VOR RWY 25	EFUT AD 2.13 - 11	20 APR 2023
	VAASA		
	ILS Z or LOC Z RWY 16	EFVA AD 2.13 - 1 / 2	21 APR 2022
	ILS Y or LOC Y RWY 16	EFVA AD 2.13 - 3	30 NOV 2023
	RNP RWY 16	EFVA AD 2.13 - 5 / 6	29 DEC 2022
	RNP RWY 34	EFVA AD 2.13 - 7 / 8	29 DEC 2022
	VOR RWY 34	EFVA AD 2.13 - 9	30 NOV 2023
VAC	**ENONTEKIÖ**		
	VAC	EFET AD 2.14 - 1	22 APR 2021
	HALLI		
	VAC	EFHA AD 2.14 - 1	20 APR 2023
	HELSINKI-VANTAA		
	VAC	EFHK AD 2.14 - 1	21 APR 2022
	VFR COPTER ROUTES	EFHK AD 2.14 - 5	21 APR 2022
	IVALO		
	VAC	EFIV AD 2.14 - 1	05 OCT 2023
	JOENSUU		
	VAC	EFJO AD 2.14 - 1	20 APR 2023
	JYVÄSKYLÄ		
	VAC	EFJY AD 2.14 - 1	20 APR 2023
	KAJAANI		
	VAC	EFKI AD 2.14 - 1	22 APR 2021
	KEMI-TORNIO		
	VAC	EFKE AD 2.14 - 1	15 JUN 2023
	KITTILÄ		
	VAC	EFKT AD 2.14 - 1	30 NOV 2023
	KOKKOLA-PIETARSAARI		
	VAC	EFKK AD 2.14 - 1	05 OCT 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	KUOPIO VAC	EFKU AD 2.14 - 1	16 JUN 2022
	KUUSAMO VAC	EFKS AD 2.14 - 1	30 NOV 2023
	LAPPEENRANTA VAC	EFLP AD 2.14 - 1	30 NOV 2023
	MARIEHAMN VAC	EFMA AD 2.14 -1	22 APR 2021
	MIKKELI VAC	EFMI AD 2.14 -1	20 APR 2023
	OULU VAC	EFOU AD 2.14 - 1	21 APR 2022
	PORI VAC	EFPO AD 2.14 - 1	20 APR 2023
	REDSTONE AERO VAC	EFPR AD 2.14 - 1	30 NOV 2023
	ROVANIEMI VAC	EFRO AD 2.14 - 1	22 APR 2021
	SAVONLINNA VAC	EFSA AD 2.14 - 1	15 JUN 2023
	SEINÄJOKI VAC	EFSI AD 2.14 - 1	21 APR 2022
	SODANKYLÄ VAC	EFSO AD 2.14 - 1	05 OCT 2023
	TAMPERE-PIRKKALA VAC	EFTP AD 2.14 - 1	05 OCT 2023
	TURKU VAC	EFTU AD 2.14 - 1	21 APR 2022
	UTTI VAC	EFUT AD 2.14 - 1	20 APR 2023
	VAASA VAC	EFVA AD 2.14 - 1	22 APR 2021
LDG	**ENONTEKIÖ** LDG	EFET AD 2.14 - 3	18 JUL 2019
	HALLI LDG	EFHA AD 2.14 - 3	17 JUN 2021
	HELSINKI-VANTAA LDG	EFHK AD 2.14 - 3	10 AUG 2023
	IVALO LDG	EFIV AD 2.14 - 3	10 AUG 2023
	JOENSUU LDG	EFJO AD 2.14 - 3	12 AUG 2021
	JYVÄSKYLÄ LDG	EFJY AD 2.14 - 3	26 JAN 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	KAJAANI		
	LDG	EFKI AD 2.14 - 3	05 NOV 2020
	KEMI-TORNIO		
	LDG	EFKE AD 2.14 - 3	15 JUN 2023
	KITTILÄ		
	LDG	EFKT AD 2.14 - 3	22 APR 2021
	KOKKOLA-PIETARSAARI		
	LDG	EFKK AD 2.14 - 3	05 OCT 2023
	KUOPIO		
	LDG	EFKU AD 2.14 - 3	10 AUG 2023
	KUUSAMO		
	LDG	EFKS AD 2.14 - 3	10 AUG 2023
	LAPPEENRANTA		
	LDG	EFLP AD 2.14 - 3	23 MAY 2019
	MARIEHAMN		
	LDG	EFMA AD 2.14 - 3	16 JUL 2020
	MIKKELI		
	LDG	EFMI AD 2.14 - 3	16 JUN 2022
	OULU		
	LDG	EFOU AD 2.14 - 3	15 JUN 2023
	PORI		
	LDG	EFPO AD 2.14 - 3	26 JAN 2023
	ROVANIEMI		
	LDG	EFRO AD 2.14 - 3	30 JAN 2020
	SAVONLINNA		
	LDG	EFSA AD 2.14 - 3	15 JUN 2023
	SEINÄJOKI		
	LDG	EFSI AD 2.14 - 3	17 JUN 2021
	TAMPERE-PIRKKALA		
	LDG	EFTP AD 2.14 - 3	02 DEC 2021
	TURKU		
	LDG	EFTU AD 2.14 - 3	05 DEC 2019
	UTTI		
	LDG	EFUT AD 2.14 - 3	17 JUN 2021
	VAASA		
	LDG	EFVA AD 2.14 - 3	07 OCT 2021
AERONAUTI-CAL DATA	**ENONTEKIÖ**		
	WAYPOINTS AND FIXES	EFET AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFET AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFET AD 2.15 - 5	29 DEC 2022
	HALLI		
	WAYPOINTS AND FIXES	EFHA AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFHA AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFHA AD 2.15 - 5	26 JAN 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	HELSINKI-VANTAA		
	WAYPOINTS AND FIXES	EFHK AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFHK AD 2.15 - 5	29 DEC 2022
	PRD INDEX	EFHK AD 2.15 - 9	20 APR 2023
	IVALO		
	WAYPOINTS AND FIXES	EFIV AD 2.15 - 1	07 OCT 2021
	FAS DATA BLOCK	EFIV AD 2.15 - 3	29 DEC 2022
	JOENSUU		
	WAYPOINTS AND FIXES	EFJO AD 2.15 - 1	20 APR 2023
	FAS DATA BLOCK	EFJO AD 2.15 - 3	12 AUG 2021
	JYVÄSKYLÄ		
	WAYPOINTS AND FIXES	EFJY AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFJY AD 2.15 - 3	29 DEC 2022
	KAJAANI		
	WAYPOINTS AND FIXES	EFKI AD 2.15 - 1	26 JAN 2023
	FAS DATA BLOCK	EFKI AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFKI AD 2.15 - 5	29 DEC 2022
	KEMI-TORNIO		
	WAYPOINTS AND FIXES	EFKE AD 2.15 - 1	20 APR 2023
	FAS DATA BLOCK	EFKE AD 2.15 - 3	29 DEC 2022
	KITTILÄ		
	WAYPOINTS AND FIXES	EFKT AD 2.15 - 1	16 JUN 2022
	FAS DATA BLOCK	EFKT AD 2.15 - 3	29 DEC 2022
	KOKKOLA-PIETARSAARI		
	WAYPOINTS AND FIXES	EFKK AD 2.15 - 1	05 OCT 2023
	FAS DATA BLOCK	EFKK AD 2.15 - 3	29 DEC 2022
	KUOPIO		
	WAYPOINTS AND FIXES	EFKU AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFKU AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFKU AD 2.15 - 5	29 DEC 2022
	KUUSAMO		
	WAYPOINTS AND FIXES	EFKS AD 2.15 - 1	26 JAN 2023
	FAS DATA BLOCK	EFKS AD 2.15 - 3	10 AUG 2023
	LAHTI-VESIVEHMAA		
	FAS DATA BLOCK	EFLA AD 2.15 - 1	26 JAN 2023
	LAPPEENRANTA		
	WAYPOINTS AND FIXES	EFLP AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFLP AD 2.15 - 3	29 DEC 2022
	MARIEHAMN		
	WAYPOINTS AND FIXES	EFMA AD 2.15 - 1	27 JAN 2022
	FAS DATA BLOCK	EFMA AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFMA AD 2.15 - 5	29 DEC 2022
	MIKKELI		
	WAYPOINTS AND FIXES	EFMI AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFMI AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFMI AD 2.15 - 5	20 APR 2023

Karttasarja / Title of series	*AD Kartan nimi / Chart name*	*ID*	*Päiväys / Date*
	OULU		
	WAYPOINTS AND FIXES	EFOU AD 2.15 - 1	20 APR 2023
	FAS DATA BLOCK	EFOU AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFOU AD 2.15 - 5	20 APR 2023
	PORI		
	WAYPOINTS AND FIXES	EFPO AD 2.15 - 1	11 AUG 2022
	FAS DATA BLOCK	EFPO AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFPO AD 2.15 - 5	20 APR 2023
	REDSTONE AERO		
	FAS DATA BLOCK	EFPR AD 2.15 - 1	30 NOV 2023
	ROVANIEMI		
	WAYPOINTS AND FIXES	EFRO AD 2.15 - 1	26 JAN 2023
	FAS DATA BLOCK	EFRO AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFRO AD 2.15 - 5	20 APR 2023
	SAVONLINNA		
	WAYPOINTS AND FIXES	EFSA AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFSA AD 2.15 - 3	29 DEC 2022
	SEINÄJOKI		
	WAYPOINTS AND FIXES	EFSI AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFSI AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFSI AD 2.15 - 5	29 DEC 2022
	TAMPERE-PIRKKALA		
	WAYPOINTS AND FIXES	EFTP AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFTP AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFTP AD 2.15 - 5	20 APR 2023
	TURKU		
	WAYPOINTS AND FIXES	EFTU AD 2.15 - 1	22 APR 2021
	FAS DATA BLOCK	EFTU AD 2.15 - 3	29 DEC 2022
	UTTI		
	WAYPOINTS AND FIXES	EFUT AD 2.15 - 1	02 DEC 2021
	FAS DATA BLOCK	EFUT AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFUT AD 2.15 - 5	20 APR 2023
	VAASA		
	WAYPOINTS AND FIXES	EFVA AD 2.15 - 1	21 APR 2022
	FAS DATA BLOCK	EFVA AD 2.15 - 3	29 DEC 2022
	PRD INDEX	EFVA AD 2.15 - 5	29 DEC 2022

6 ILMAILUKARTTA - ICAO 1:500 000 (ANC)

Kartta on suunniteltu palvelemaan näkölentosuunnistuksen tarpeita pienten nopeuksien sekä lyhyiden ja keskipitkien lentoetäisyyksien ollessa kysymyksessä sekä käytettäväksi apuvälineenä lento- ja suunnistuskoulutuksessa. Kartta on konstruoitu Lambertin kulmatarkassa kartioprojektiossa ja on yhdenmukainen ICAO:n Annex 4:n määritelmien kanssa.

6.1 Karttojen ylläpito

Muutokset ANC 1:500 000 -karttoihin julkaistaan normaalisti AIP:n muutospalvelulla ja sisällytetään listaukseen, joka on esitetty kohdassa 8. Tieto operatiivisesti merkittävistä virheellisyyksistä ja korjauksista julkaistaan tarvittaessa NOTAMilla.

Ilmoitus ANC 1:500 000 -sarjan ilmailukarttojen uusinnasta ja mahdollisista korjauksista julkaistaan tarvittaessa AIC:llä ja/tai www.ais.fi verkkosivuilla.

6.2 Tekijänoikeus

Karttojen tekijänoikeudet kuuluvat Fintraffic ANS:lle.

Laadunvarmistus, ks. GEN 3.1. kohta 1.

6.3 Karttojen myynti

Tapio Palvelut Oy / Karttakeskus
Maistraatinportti 4 A
00240 HELSINKI
TEL: 09 3154 9875
E-mail: myynti@karttakeskus.fi
www.karttakeskus.fi
Karttakauppa: www.karttakauppa.fi

6.4 Karttojen lehtijako

6 AERONAUTICAL CHART - ICAO 1:500 000 (ANC)

This chart is designed to serve the requirements of visual air navigation for low speed, short and medium range operations and to provide a suitable medium for basic pilotage and for flight and navigation training. The chart is constructed on the Lambert conformal conical projection and it conforms to the ICAO specifications included in Annex 4.

6.1 Maintenance of charts

Changes to series ANC 1:500 000 charts are normally published by AIP Amendment and included in the list given in para 8. Information of operationally significant inaccuracies and corrections, if necessary, will be published by NOTAM.

Notification of the renewal of ANC 1:500 000 series charts and possible corrections thereto will be published by AIC and/or www.ais.fi webpage.

6.2 Copyright

Fintraffic ANS owns the copyrights to charts.

Quality Assurance, see GEN 3.1. para 1.

6.3 Purchase arrangements

Tapio Palvelut Oy / Karttakeskus
Maistraatinportti 4 A
FI-00240 HELSINKI
TEL: +358 9 3154 9875
E-mail: myynti@karttakeskus.fi
www.karttakeskus.fi
Mapshop: www.karttakauppa.fi

6.4 Chart index

Kartan nimi / Chart name	*ID*	*Päiväys / Date*
HELSINKI WEST	2103D	20 APR 2023
HELSINKI EAST	2103C	20 APR 2023
VAASA	2103A	20 APR 2023
KUOPIO	2103B	20 APR 2023
OULU	2091D	20 APR 2023
ROVANIEMI	2091A	20 APR 2023
IVALO	2052C	20 APR 2023
SOUTHERN FINLAND	2103CD	20 APR 2023

3.3.3. Datamuodossa lähetetty lähestymisalueen automaattinen tiedotuspalvelu (D-ATIS)

Ilma-alukset voivat vastaanottaa ATIS- ja VOLMET-lähetyksiä datalinkin kautta suoraan ohjaamoon. Palvelu toimii ACARS-viestiverkon kautta ja edellyttää ilma-aluksen olevan varustettu ACARS-vastaanottimella, joka on ARINC 622/623 yhteensopiva.

D-ATIS-lähetyksiä voidaan lentoasemilla vastaanottaa seuraavasti:

ATIS: EFET, EFHK, EFIV, EFJO, EFJY, EFKE, EFKI, EFKK, EFKS,
EFKT, EFKU, EFLP, EFMA, EFOU, EFPO, EFRO, EFSA,
EFSI, EFTP, EFTU, EFVA

Koska D-ATIS on lisäpalvelu, ei mahdollisia toimintakatkoksia julkaista NOTAMilla.

3.4 Laitteita koskevat yksityiskohtaiset tiedot

Yksityiskohtaiset tiedot laitteista, jotka palvelevat reittilento-osuutta, on annettu osassa ENR 4. Tiedot laitteista, jotka ovat käytettävissä lentoasemilla, on annettu osassa AD 2. Kummankin tyyppisessä käytössä olevien laitteiden osalta on tiedot annettu sekä osassa ENR 4 että osassa AD 2.

4 VAATIMUKSET JA EHDOT

NIL

5 LENNONJOHTAJAN JA OHJAAJAN TIEDONSIIRTOYHTEYDET (CPDLC)

5.1 Yleistä

CPDLC-palvelua tarjotaan ilma-aluksille, jotka operoivat HELSINKI FIR -alueella FL95 ja FL660 välisellä alueella, pois lukien ATS-delegoidut alueet HALTI CTA, MANTO CTA ja KVARKEN CTA.

Seuraavat CPDLC-palvelut ovat käytettävissä tässä ilmatilassa:

- DLIC (tiedonsiirtoyhteyden aktivointikyvykkyys)
- ACL (lennonjohdon selvitykset ja ohjeet)
- ACM (lennonjohdon ilmailuviestintä)
- AMC (lennonjohdon mikrofonitarkastus)

CPDLC sisäänkirjautuminen on pakollinen kaikille kyvykkäille lennoille HELSINKI FIR -alueella. CPDLC-palvelua annetaan lennonjohtajan harkinnan mukaan. Puheyhteys on aina ensisijainen kommunikaatiomuoto aikakriittisissä tilanteissa.

CPDLC-viesteihin tulee vastata pienimmällä mahdollisella viiveellä. Mikäli tarpeellista, esim. tiedonsiirtoyhteydellä tehty pyyntö ylittää sille asetetut aikarajat, tulee ohjaajan toistaa pyyntö puheyhteydellä radiolla.

CPDLC-viestien takaisinlukua puheyhteydellä ei vaadita.

5.2 Lentosuunnitelma

3.3.3. Data link automatic terminal information service (D-ATIS)

Aircraft are allowed to receive ATIS and VOLMET via data link. This service operates through ACARS network and supports aircraft equipped with ACARS which is ARINC 622/623 compliant.

D-ATIS is available at the aerodromes as follows:

ATIS: EFET, EFHK, EFIV, EFJO, EFJY, EFKE, EFKI, EFKK, EFKS,
EFKT, EFKU, EFLP, EFMA, EFOU, EFPO, EFRO, EFSA,
EFSI, EFTP, EFTU, EFVA

D-ATIS being an additional service, no NOTAM concerning possible interruptions will be published.

3.4 Where detailed information can be obtained

Details of the various facilities available for the en-route traffic can be found in ENR 4. Details of the facilities available at the individual aerodromes can be found in AD 2. In cases where a facility is serving both the en-route traffic and the aerodromes, details are given in the relevant sections of ENR 4 and AD 2.

4 REQUIREMENTS AND CONDITIONS

NIL

5 CONTROLLER - PILOT DATA LINK COMMUNICATIONS (CPDLC)

5.1 General

CPDLC services are available for aircraft operating within the airspace of HELSINKI FIR between FL95 and FL660, excluding ATS delegated areas HALTI CTA, MANTO CTA and KVARKEN CTA.

The following CPDLC services are provided in this airspace:

- DLIC (data link initiation capability)
- ACL (ATC clearances and instructions)
- ACM (ATC communications management)
- AMC (ATC microphone check)

CPDLC Logon is mandatory for all capable and eligible flights in the airspace of HELSINKI FIR. Use of CPDLC in HELSINKI FIR is conducted at the discretion of ATC. Voice shall remain the primary means of communication in time-critical situations.

CPDLC messages shall be answered with the least possible delay. If required, e.g. due to the downlink request message having exceeded its time limit, the pilot shall repeat the request via radiotelephony.

Voice read-back is not required for any CPDLC clearance or instruction.

5.2 Flight plan

Ohjaajat, jotka aikovat operoida tietoliikenneyhteydellä (CPDLC) HELSINKI FIR -alueella tulee lisätä seuraavat tiedot lentosuunnitelmaansa:

- Kohta 10a- J1 CPDLC ATN VDL moodi 2 kykenevä ilma-alus
- Kohta 18- indikaattori CODE/ jonka jälkeen ilma-aluksen 24-bittinen kuuden heksadesimaalimerkin koodi ilmoitettuna aakkosnumeerisena numeroina

Pilots intending to conduct CPDLC communications within HELSINKI FIR shall insert the following in the respective items of their filed flight plan:

- Item 10a- J1 for CPDLC ATN VDL Mode 2 capable aircraft
- Item 18- the indicator CODE/ followed by the aircraft 24-bit address expressed in an alphanumerical code of six hexadecimal characters

5.3 CPDLC käyttö

Miehistön tulee lähettää WILCO-viesti ennen kuin noudattaa vastaanottamaansa lennonjohdon antamaa CPDLC-selvitystä tai -ohjetta. Epäselvissä CPDLC selvitys- tai ohjetapauksissa tulee aina käyttää puheyhteyttä.

CPDLC tiedonsiirtoyhteyttä käytetään HELSINKI FIR -vastuualueella ainoastaan, kun ilma-alus on Helsinki ACC:n johdettavana.

5.3 CPDLC use

CPDLC clearance shall not be executed until the flight crew has sent a WILCO message in response to CPDLC clearance or instruction received. If uncertainty arises regarding a CPDLC clearance or instruction, voice communication shall always be used for clarification.

CPDLC exchanges within HELSINKI FIR may only be conducted when the aircraft is under the control and responsibility of Helsinki ACC.

5.4 CPDLC tiedonsiirtoyhteyden käyttörajoitukset

CPDLC-palvelu ei ole käytettävissä EFHK TMA:n sisällä eikä lähestymislennonjohdon varaamissa ilmatilanosissa. Lennonjohto katkaisee tiedonsiirtoyhteyden näissä tapauksissa.

Ohjaajia pyydetään pidättäytymään käyttämästä tiedonsiirtoyhteyttä (CPDLC) kun puheyhteys on lähestymislennonjohdon taajuudella, vaikka tiedonsiirtoyhteyttä ei ole päätetty.

5.4 CPDLC service limitations

The CPDLC service is not available within EFHK TMA nor within airspace blocks reserved by APP. The ATC will cancel the data transfer connection in these cases.

Pilots are requested to refrain from transmitting downlink messages when operating in the APP frequency even if the CPDLC connection has not been terminated.

5.5 CPDLC-palvelut

5.5.1. DLIC tiedonsiirtoyhteyden aktivointi

HELSINKI FIR CPDLC yhteystunnus on EFIN. Tiedonsiirtoyhteys tulisi aktivoida miehistön toimesta ennen saapumista HELSINKI FIR -alueelle. HELSINKI FIR -alueelta lähtevät ilma-alukset voivat aktivoida tiedonsiirtoyhteyden maasta. Ohjaajan tulee käyttää tiedonsiirtoyhteyden aktivoinnissa lentosuunnitelman mukaista ICAO-kutsumerkkiään.

CPDLC-yhteyden aktivoinnin jälkeen tekee ensimmäinen EFIN ACC -sektori Start-CPDLC toiminnon, kun ilma-alukseen on muodostettu kaksipuolinen radioyhteys.

Tämän jälkeen tiedonsiirtoyhteys (CPDLC) on käytettävissä molemminpuoliseen tiedon välittämiseen HELSINKI FIR -alueella.

5.5 CPDLC services

5.5.1. DLIC Log-on

The CPDLC designator for HELSINKI FIR is EFIN. Log-on shall be initiated by the flight crew prior to entry into HELSINKI FIR. For aircraft departing from an aerodrome located within HELSINKI FIR, the log-on can be initiated on the ground. Log-on shall be initiated by the flight crew using their ICAO call sign as filed in the flight plan.

Following the completion of the Log-on procedure, the first EFIN ACC sector will perform a Start-CPDLC function, after the first radio contact with the aircraft.

Thereafter, the communication link (CPDLC) is available for sending / receiving messages within the HELSINKI FIR area.

5.5.2. Lennonjohdon ilmailuviestintä (ACM)

Kun ilma-alus siirretään tiedonsiirtoyhteydellä viereiselle sektorille tai ATS-yksikölle, tulee ohjaajan kuitata viesti vastaanotetuksi WILCO-viestillä ja muodostaa kaksipuolinen puheyhteys seuraavaan sektoriin tai ATS-yksikköön tiedonsiirtoyhteydellä välitetyllä radiokanavalla.

Seuraava ATS-yksikkö ilmoittaa avauskutsun yhteydessä tarjottavan palvelun, esim. Helsinki Radar, Kajaani Information, Kuusamo TWR.

Mikäli ohjaaja ei kykene noudattamaan CPDLC-selvitystä, tulee hänen informoida lennonjohtoa puheyhteyttä hyväksi käyttäen.

5.5.2. ATC communications management (ACM)

When an aircraft is transferred by data link to an adjacent sector / ATS unit, the pilot shall acknowledge the instruction using data link WILCO message, and shall then contact the next sector / ATS unit by voice communication on the instructed channel.

Next ATS unit will inform current ATS service in initial radio contact, e.g. Helsinki Radar, Kajaani Information, Kuusamo TWR.

If the pilot is unable to comply with this CPDLC instruction, they shall revert to voice communication to inform ATC.

ACM sanomat / ACM messages	
ATC sanoma / ATC message	***Ilma-aluksen vastaus / Flight crew response***
CONTACT [yksikkö] [taajuus] / [unit name] [frequency]	WILCO

An aircraft operating within HELSINKI FIR that cannot be reached by the ATC on the appropriate voice channel may

SER	*Call Sign*	*FREQ*	*HR UTC*	*SATVOICE*	*Logon address*	*RMK*
1	2	3	4	5	6	7
ATIS	ATIS DEP	114.200 MHZ	H24	NIL	NIL	Helsinki VOR, EN D-ATIS REF AIP, GEN 3.4, kohta 3.3.4. ATIS-lähetystä koskevia rajoituksia: 1. Tilanteessa, jossa ei ole kriittisiä lumivalleja ja kiitotien kunnostetun keskikaistan leveys on vähintään 45 M, ei ATIS-lähetyksessä lueta reunakaistojen tietoja. 2. Toisistaan riippuvaisten rinnakkaisten lähestymisten ollessa käytössä ilmoitetaan kiitotiekohtaisten tuulitietojen sijasta RWY 15 kosketuskohdan (METAR-mittauspiste) tuulitieto. Helsinki VOR, EN D-ATIS REF AIP, GEN 3.4, para 3.3.4. Limitations in ATIS: 1. In circumstances when no critical snowbanks exist and the middle part of cleared runway area is at least 45 M, the information concerning the edges will not be reported separately. 2. During dependent parallel approaches the surface wind of TDZ RWY 15 (METAR measuring point) will be reported instead of RWY oriented surface wind.
APRON	HELSINGIN ASEMATASO HELSINKI APRON	121.650 MHZ	H24	NIL	NIL	Ilma-alusten pysäköintipalvelut ja Marshalling-palvelu sekä liikelentoterminaalin palvelu Apron management services, Marshalling service and business flight terminal services
DE-ICING	HELSINKI DE-ICING SUPERVISOR	127.025 MHZ	HO	NIL	NIL	Jäänpoistotilaukset, Ks. EFHK AD 2.20.7.1.2 De-icing orders, See EFHK AD 2.20.7.1.2
DE-ICING	REMOTE DE-ICING SUPERVISOR	133.850 MHZ	HO	NIL	NIL	Etäjäänpoistoalueen toiminnasta vastuussa oleva supervisor Remote De-icing Supervisor

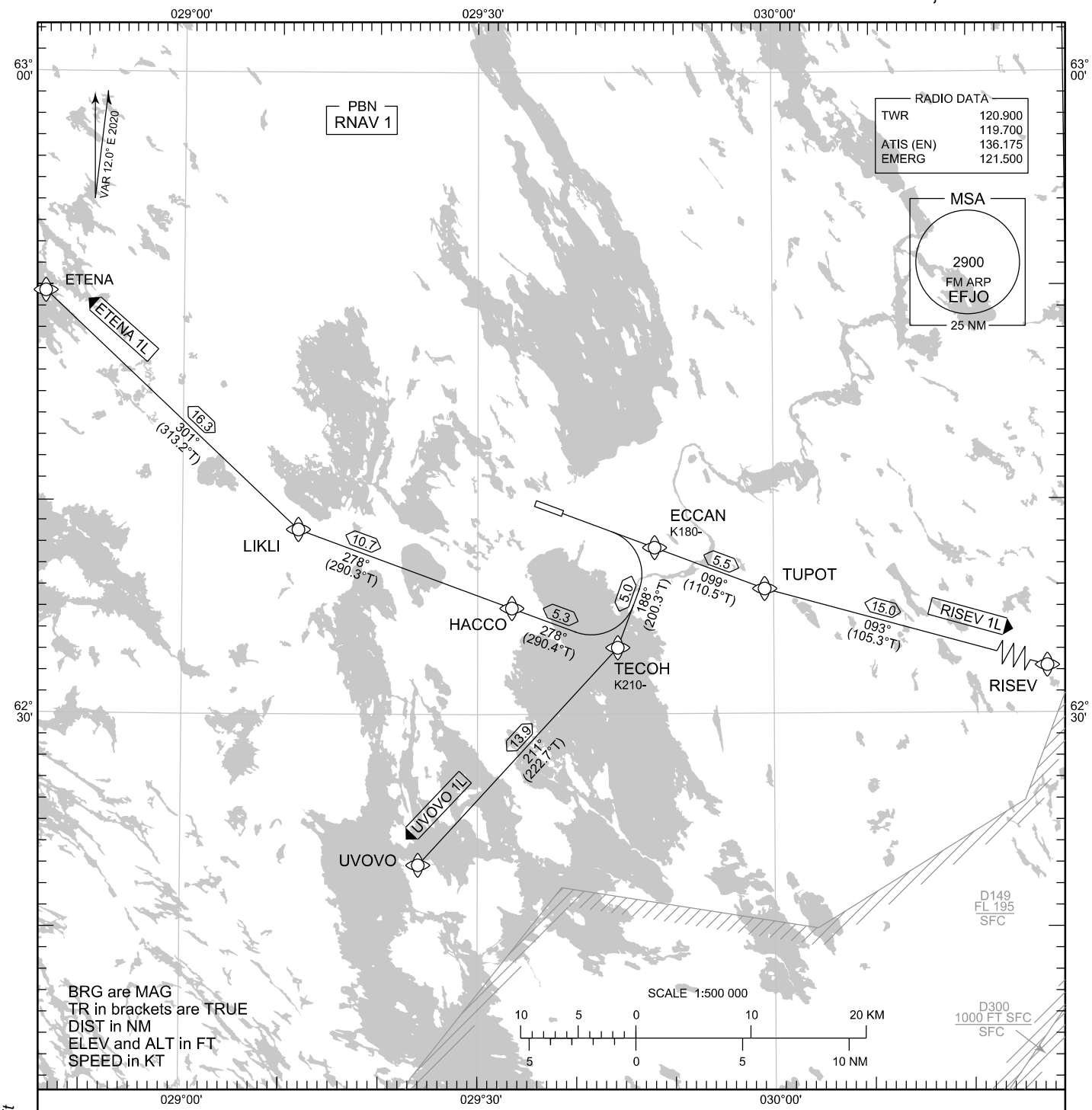
Huom. ATS-elimen toiminta-aikojen ulkopuolella ATIS-lähetettä ei valvota, joten se voi olla virheellinen.

Note: Outside the operational hours of ATS the ATIS broadcast is not monitored and may therefore be invalid.

EFHK AD 2.19 RADIOSUUNNISTUS- JA LASKEUTUMISLAITTEET
EFHK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid MAG VAR CAT of ILS / MLS DECL	*ID*	*FREQ CH*	*HR UTC*	*PSN*	*DME ELEV FT*	*Service volume radius*	*RMK*
1	2	3	4	5	6	7	8
DME	ANT	113.700 MHZ (CH84X)	H24	605146.83N 0250736.55E	314 FT	NIL	NIL
DVOR/DME (09° E 2020) (DECL 9°E)	HEL	114.200 MHZ (CH89X)	H24	602016.14N 0245713.43E	239 FT	NIL	NIL
LOC 04R ILS CAT I (09° E 2020)	HG	111.500 MHZ	HO	601954.83N 0245854.30E	NIL	NIL	NIL
GP 04R ILS CAT I	HG	332.900 MHZ	H24	601850.02N 0245619.98E	NIL	NIL	Angle: 3.0°
DME 04R ILS CAT I	HG	111.500 MHZ (CH52X)	H24	601850.02N 0245619.98E	206 FT	NIL	NIL
LOC 22L ILS CAT II (09° E 2020)	HK	110.300 MHZ	HO	601827.64N 0245542.32E	NIL	18 NM	Facility Performance II/T/2
GP 22L ILS CAT II	HK	335.000 MHZ	H24	601946.98N 0245825.22E	NIL	NIL	Angle: 3.0°
DME 22L ILS CAT II	HK	110.300 MHZ (CH40X)	H24	601946.98N 0245825.22E	205 FT	18 NM	NIL
LOC 15 ILS CAT I (09° E 2020)	HL	109.100 MHZ	H24	601820.34N 0245923.05E	NIL	NIL	NIL
GP 15 ILS CAT I	HL	331.400 MHZ	H24	601942.01N 0245808.12E	NIL	NIL	Angle: 3.0°
DME 15 ILS CAT I	HL	109.100 MHZ (CH28X)	H24	601942.01N 0245808.12E	220 FT	NIL	NIL
LOC 04L ILS CAT III (09° E 2020)	HTV	111.900 MHZ	HO	602001.65N 0245659.02E	NIL	NIL	Facility Performance IIIB/E/4
GP 04L ILS CAT III	HTV	331.100 MHZ	H24	601855.87N 0245422.73E	NIL	NIL	Angle: 3.0°
DME 04L ILS CAT III	HTV	111.900 MHZ (CH56X)	H24	601855.87N 0245422.73E	165 FT	NIL	NIL
LOC 22R ILS CAT III (09° E 2020)	HUO	110.700 MHZ	HO	601839.19N 0245357.62E	NIL	NIL	Facility Performance IIIB/E/4
GP 22R ILS CAT III	HUO	330.200 MHZ	H24	601947.87N 0245616.87E	NIL	NIL	Angle: 3.0°
DME 22R ILS CAT III	HUO	110.700 MHZ (CH44X)	H24	601947.87N 0245616.87E	207 FT	NIL	NIL
DME	KAD	117.500 MHZ (CH122X)	H24	600849.21N 0250451.86E	138 FT	NIL	NIL
DME	ORM	117.300 MHZ (CH120X)	H24	605000.60N 0254543.53E	273 FT	NIL	NIL
DME	PVO	112.800 MHZ (CH75X)	H24	601739.76N 0253518.52E	121 FT	NIL	NIL
DME	VTI	117.000 MHZ (CH117X)	H24	602733.30N 0241438.65E	203 FT	NIL	NIL

JOENSUU, FINLAND



RNAV SID RWY 10

ETENA 1L RISEV 1L UVOVO 1L

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING. CLOSE-IN OBSTACLES EXIST, SEE EFJO AD 2.10 - 5
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

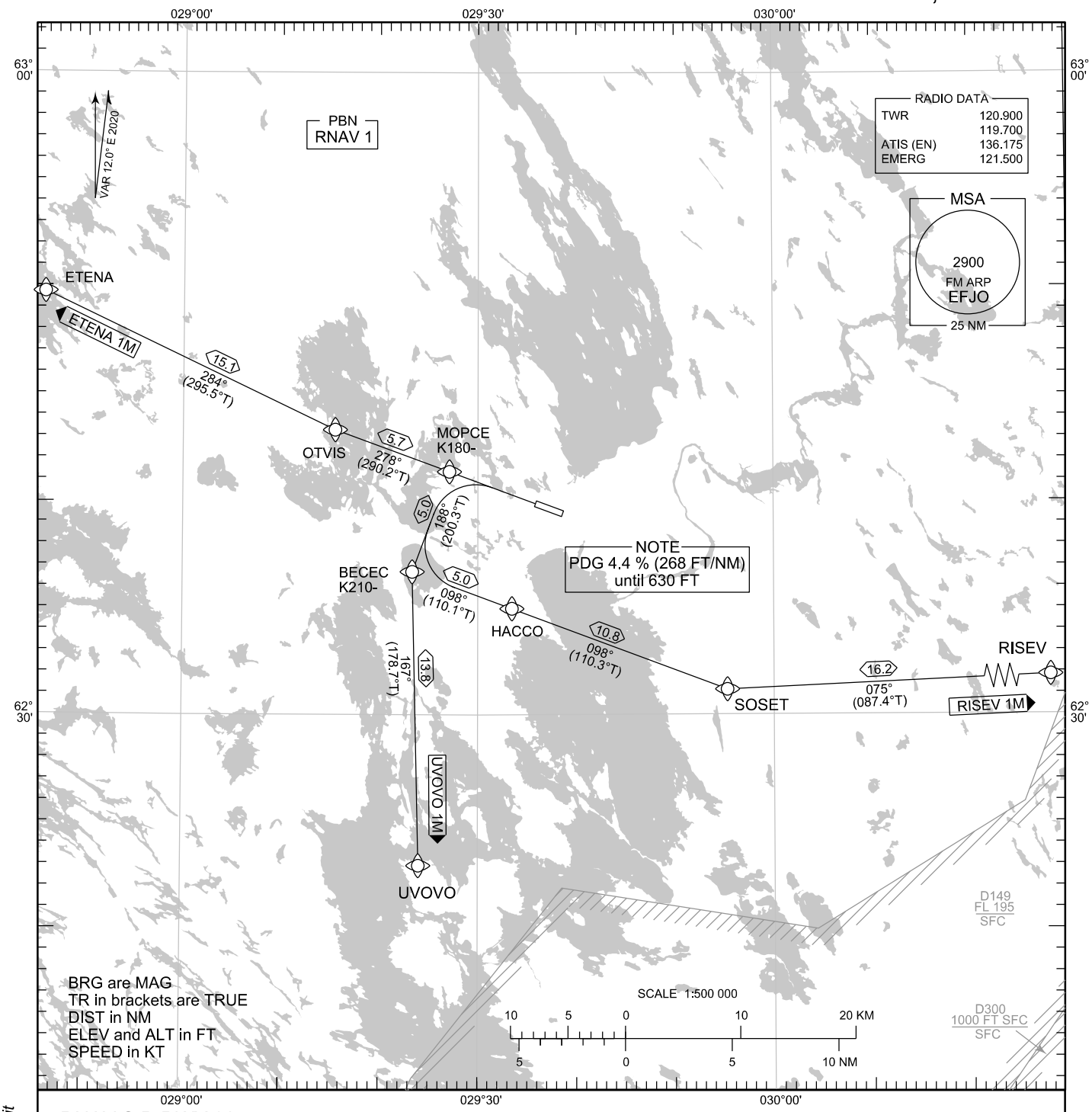
CHG: COR D300 upper limit

EFJO RNAV SID RWY 10										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Flyover					LVL	Speed
ETENA 1L RNAV 1	010	CA	-	-	098°	110.0°T	-		A760+	
	020	DF	ECCAN	-	-	-	-			K180-
	030	TF	TECOH	-	188°	200.3°T	5.0	R		K210-
	040	TF	HACCO	-	278°	290.4°T	5.3			
	050	TF	LIKLI	-	278°	290.3°T	10.7			
	060	TF	ETENA	-	301°	313.2°T	16.3			
RISEV 1L RNAV 1	010	CA	-	-	098°	110.0°T	-		A760+	
	020	DF	ECCAN	-	-	-	-			K180-
	030	TF	TUPOT	-	099°	110.5°T	5.5			
	040	TF	RISEV	-	093°	105.3°T	15.0			
UVOVO 1L RNAV 1	010	CA	-	-	098°	110.0°T	-		A760+	
	020	DF	ECCAN	-	-	-	-			K180-
	030	TF	TECOH	-	188°	200.3°T	5.0			K210-
	040	TF	UVOVO	-	211°	222.7°T	13.9			

WPT COORD
SEE PAGE EFJO AD 2.15 - 1

TRANSITION ALT
5000

JOENSUU, FINLAND



RNAV SID RWY 28

ETENA 1M RISEV 1M UVOVO 1M

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING. PDG 4.4 % (268 FT/NM) UNTIL 630 FT. CLOSE-IN OBSTACLES EXIST, SEE EFJO AD 2.10 - 5
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

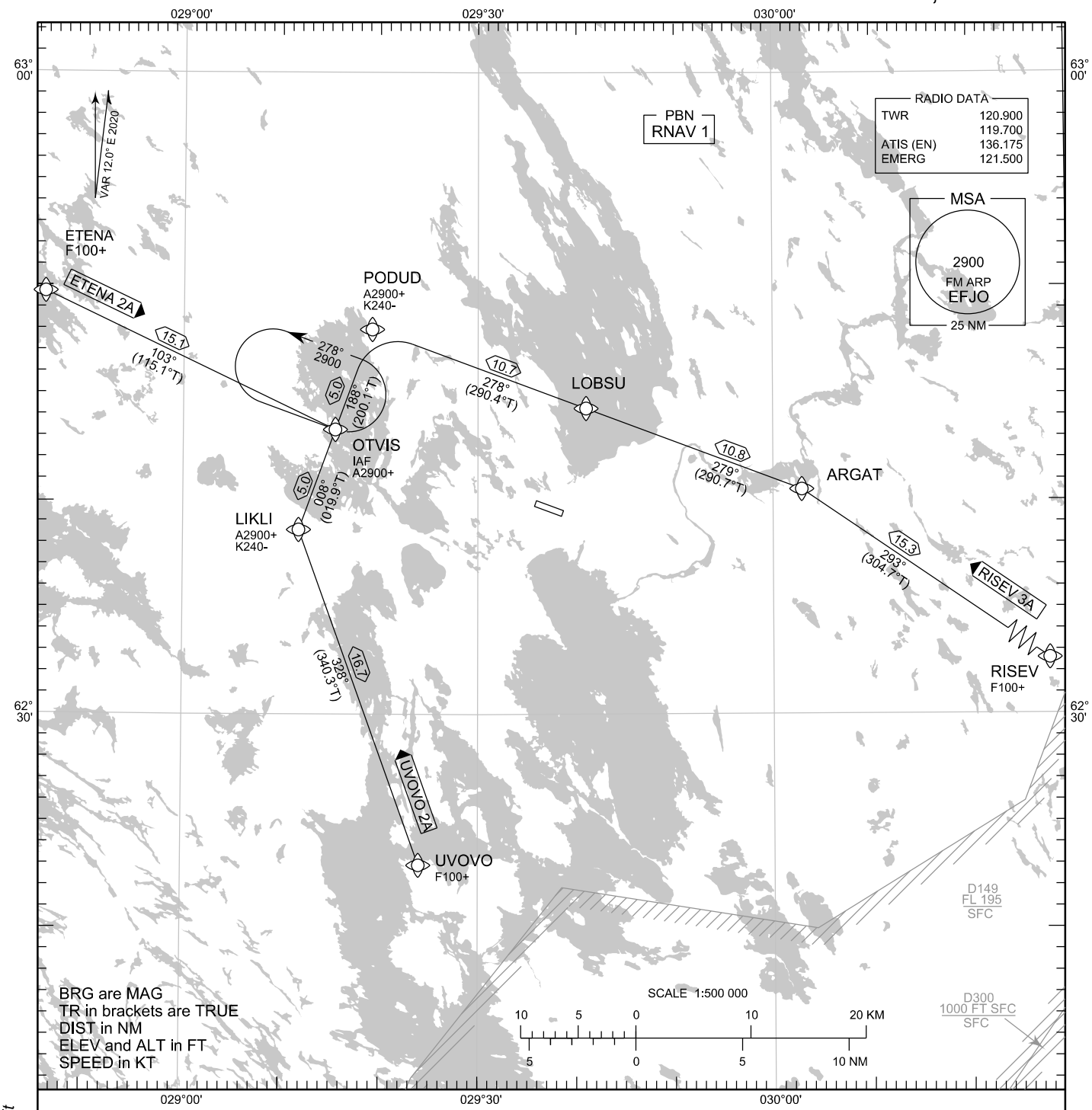
CHG: COR D300 upper limit

EFJO RNAV SID RWY 28										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Flyover					LVL	Speed
ETENA 1M RNAV 1	010	CA	-	-	278°	290.0°T	-		A870+	
	020	DF	MOPCE	-	-	-	-			K180-
	030	TF	OTVIS	-	278°	290.2°T	5.7			
	040	TF	ETENA	-	284°	295.5°T	15.1			
RISEV 1M RNAV 1	010	CA	-	-	278°	290.0°T	-		A870+	
	020	DF	MOPCE	-	-	-	-			K180-
	030	TF	BECEC	-	188°	200.3°T	5.0	L		K210-
	040	TF	HACCO	-	098°	110.1°T	5.0			
	050	TF	SOSET	-	098°	110.3°T	10.8			
	060	TF	RISEV	-	075°	087.4°T	16.2			
UVOVO 1M RNAV 1	010	CA	-	-	278°	290.0°T	-		A870+	
	020	DF	MOPCE	-	-	-	-			K180-
	030	TF	BECEC	-	188°	200.3°T	5.0			K210-
	040	TF	UVOVO	-	167°	178.7°T	13.8			

WPT COORD
SEE PAGE EFJO AD 2.15 - 1

TRANSITION ALT
5000

JOENSUU, FINLAND



RNAV STAR RWY 10

ETENA 2A RISEV 3A UVOVO 2A

DME/DME OPS:	NOT SUPPORTED	RCF:	SELECT TRANSPONDER CODE 7600
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES		RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC	AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR		
NOISE ABATEMENT:	AVOID OVERFLYING THE CITY OF JOENSUU BELOW 2000		

CHG: COR D300 upper limit

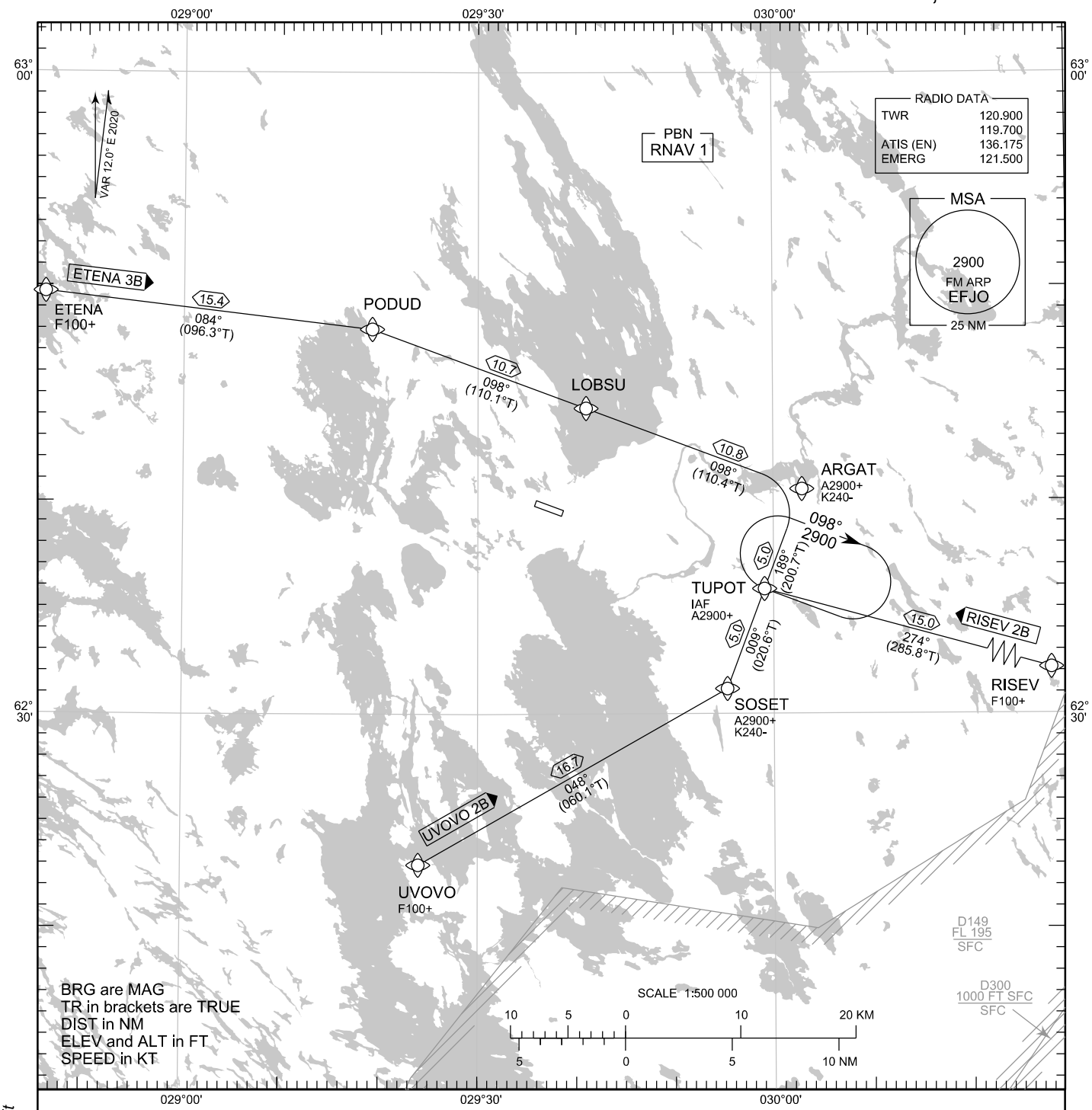
EFJO RNAV STAR RWY 10										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ETENA 2A RNAV 1	010	IF	ETENA	-	-	-	-	F100+		
	020	TF	OTVIS	-	103°	115.1°T	15.1	A2900+		
RISEV 3A RNAV 1	010	IF	RISEV	-	-	-	-	F100+		
	020	TF	ARGAT	-	293°	304.7°T	15.3			
	030	TF	LOBSU	-	279°	290.7°T	10.8			
	040	TF	PODUD	-	278°	290.4°T	10.7	A2900+		K240-
	050	TF	OTVIS	-	188°	200.1°T	5.0	A2900+		
UVOVO 2A RNAV 1	010	IF	UVOVO	-	-	-	-	F100+		
	020	TF	LIKLI	-	328°	340.3°T	16.7	A2900+		K240-
	030	TF	OTVIS	-	008°	019.9°T	5.0	A2900+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
OTVIS	110.3°T	098°	Left	K230-	A2900	1 MIN	-

WPT COORD
SEE PAGE EFJO AD 2.15 - 1

TRANSITION ALT
5000

JOENSUU, FINLAND



RNAV STAR RWY 28

ETENA 3B RISEV 2B UVOVO 2B

DME/DME OPS:	NOT SUPPORTED	RCF:	SELECT TRANSPONDER CODE 7600
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES		RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC	AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR		
NOISE ABATEMENT:	AVOID OVERFLYING THE CITY OF JOENSUU BELOW 2000		

CHG: COR D300 upper limit

EFJO RNAV STAR RWY 28										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ETENA 3B RNAV 1	010	IF	ETENA	-	-	-	-	F100+		
	020	TF	PODUD	-	084°	096.3°T	15.4			
	030	TF	LOBSU	-	098°	110.1°T	10.7			
	040	TF	ARGAT	-	098°	110.4°T	10.8	A2900+		K240-
	050	TF	TUPOT	-	189°	200.7°T	5.0	A2900+		
RISEV 2B RNAV 1	010	IF	RISEV	-	-	-	-	F100+		
	020	TF	TUPOT	-	274°	285.8°T	15.0	A2900+		
UVOVO 2B RNAV 1	010	IF	UVOVO	-	-	-	-	F100+		
	020	TF	SOSET	-	048°	060.1°T	16.7	A2900+		K240-
	030	TF	TUPOT	-	009°	020.6°T	5.0	A2900+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
TUPOT	290.3°T	278°	Right	K230-	A2900	1 MIN	-

WPT COORD
SEE PAGE EFJO AD 2.15 - 1

4 ILMA-ALUKSEN SEISONTAPAIKAT **4 AIRCRAFT STANDS**

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
1	APN	641656.64N 0274033.07E	443 FT	65/F/B/W/T	NIL	ASPH	NIL
2	APN	641654.03N 0274034.69E	443 FT	65/F/B/W/T	NIL	ASPH	NIL
2B	APN	641652.85N 0274034.98E	443 FT	65/F/B/W/T	NIL	ASPH	NIL
3	APN	641651.72N 0274036.67E	444 FT	65/F/B/W/T	NIL	ASPH	NIL
3B	APN	641652.78N 0274035.01E	443 FT	65/F/B/W/T	NIL	ASPH	NIL

EFKI AD 2.21 MELUNVAIMENNUSMENETELMÄT
EFKI AD 2.21 NOISE ABATEMENT PROCEDURES

Huom. REF ENR 1.5, kohta 4. *Note: REF ENR 1.5, para 4.*

EFKI AD 2.22 LENTOMENETELMÄT
EFKI AD 2.22 FLIGHT PROCEDURES

Huom. Yleiset lähtö-, lähestymis- ja odotusmenetelmät on esitetty osassa ENR 1.5. *Note: The general departure, arrival and holding procedures are described in section ENR 1.5.*

EFKI AD 2.23 LISÄTIETOJA
EFKI AD 2.23 ADDITIONAL INFORMATION

1 HYVÄKSYNTÄTODISTUKSESSA MYÖNNETYT POIKKEAMAT

1 ACCEPTED DEVIATIONS IN AERODROME CERTIFICATE

EU-ilmailumääräys ***Aerodrome rules***	***Otsikko***	***Title***	***Poikkeaman kuvaus***	***Description of the deviation***
CS-ADR-DSN.B.060	Kiitotien pituuskaltevuus	Longitudinal slopes of runways	Kiitotien pituuskaltevuus ylittää lyhyellä matkalla maksimikaltevuuden	Runway longitudinal slope exceeds MAX slope on short distance
CS ACS ADR-DSN.J.475	Ei-tarkkuuslähestymiskiitotiet	Non-precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.J.480	Tarkkuuslähestymiskiitotiet	Precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces

EFKI AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFKI AD 2.24 CHARTS RELATED TO THE AERODROME

EFKI AD 2.25 VSS LÄPÄISYT
EFKI AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

Ei läpäisyjä — No penetrations

CHG: ADDN ACFT stands 2B, 3B

AERODROME CHART - ICAO

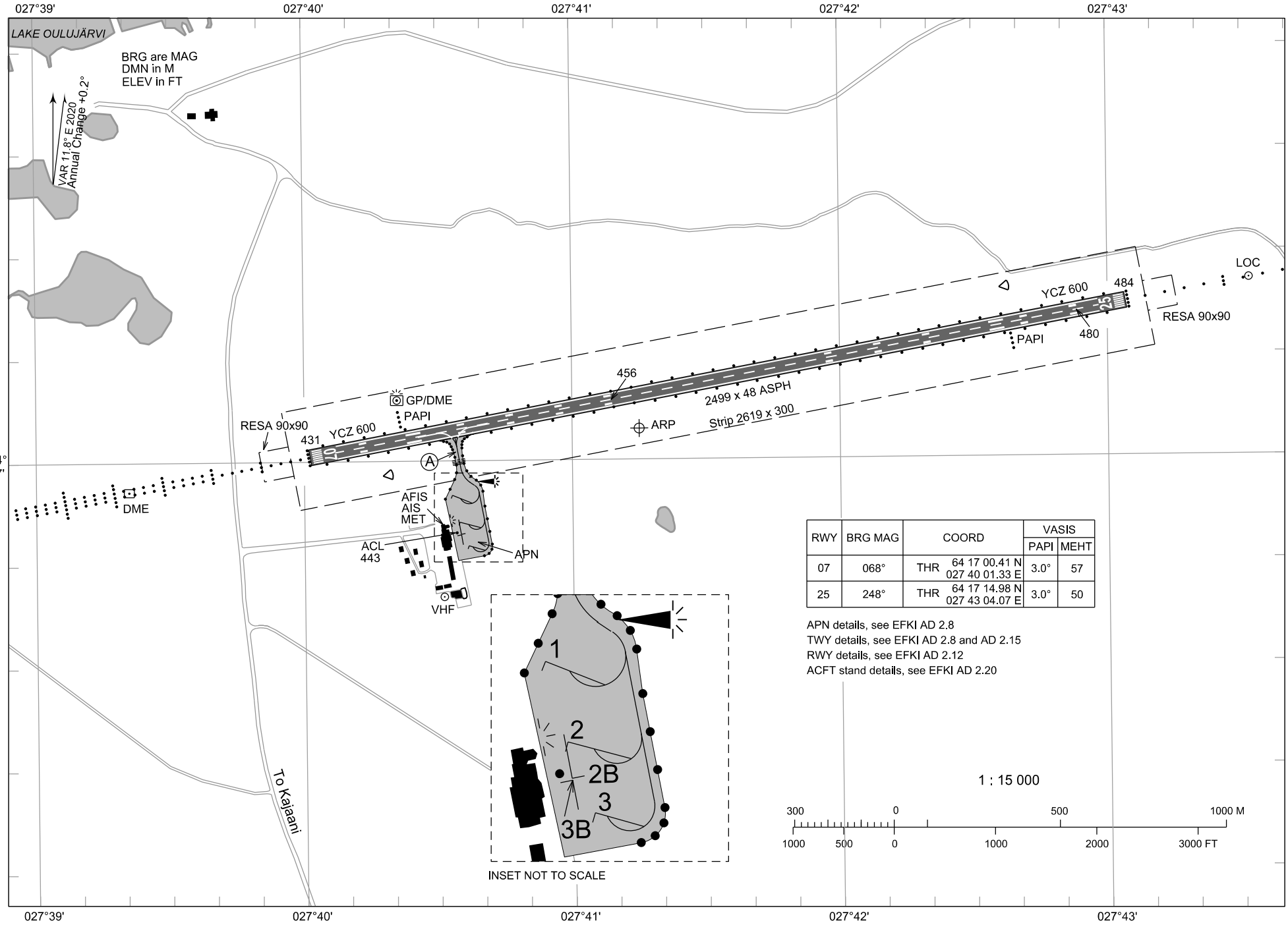
KAJAANI AERODROME

KAJAANI, FINLAND

64 17 03 N
027 41 15 E

ELEV 484 FT

AFIS 118.100



RWY	BRG MAG	COORD	VASIS	
			PAPI	MEHT
07	068°	THR 64 17 00.41 N 027 40 01.33 E	3.0°	57
25	248°	THR 64 17 14.98 N 027 43 04.07 E	3.0°	50

APN details, see EFKI AD 2.8
TWY details, see EFKI AD 2.8 and AD 2.15
RWY details, see EFKI AD 2.12
ACFT stand details, see EFKI AD 2.20

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1.1 Laskennalliset pituudet

Lentoonlähtö kiitotien ja rullaustien risteyksestä voidaan suorittaa ilma-aluksen päällikön pyynnöstä liikennetilanteen salliessa.

Laskennalliset pituudet, ks. kohta AD 2.13

1.1 Reduced Declared Distances

Take-offs from the specified intersection of runway / taxiway intersection can be performed upon the pilot-in-command's request the traffic situation permitting.

Declared distances, see para AD 2.13.

2 LENTOTOIMINTA HUONOISSA NÄKYVYYSOLOSUHTEISSA

Kiitotienäkyvyyden (RVR) ollessa 550 M - 400 M ovat lentoonlähdöt mahdollisia ainoastaan silloin, kun vain yksi ilma-alus kerrallaan on liikennealueella.

2 OPERATIONS IN LOW VISIBILITY CONDITIONS

When RVR is 550 M - 400 M, take-offs are allowed providing that only one aircraft at a time is in the manoeuvring area.

3 VFR-LIIKENTEEN RAJOITTAMINEN

Lennonjohto rajoittaa tarvittaessa laskukierrokseen selvitettävien ilma-alusten lukumäärää. Sovellettavaan lukumäärään vaikuttavat esim. sää, kunnossapitotyöt tai muu liikenne.

Laskukierrosliikenne on sallittua 0500-2200 UTC (0400-2100 UTC).

3 VFR TRAFFIC RESTRICTIONS

If necessary, the number of aircraft cleared to fly in the aerodrome traffic circuit is restricted by ATC. The number of aircraft is determined by e.g. weather conditions, maintenance works or other traffic.

Flying in traffic circuit is accepted 0500-2200 UTC (0400-2100 UTC).

4 TANKKAUSTOIMINTAA KOSKEVA RAJOITUS

Polttoainekanistereiden tai vastaavien käyttö tankkaukseen on lentokenttäalueella kielletty, ellei lentoasema ole paikallisesti muunlaista menettelyä kirjallisesti julkaissut.

4 RESTRICTION CONCERNING AIRCRAFT REFUELLING

The use of fuel canisters, and the like, for refuelling is prohibited in the airport area unless the airport has published a written local procedure.

5 ILMA-ALUKSEN SEISONTAPAIKAT

5 AIRCRAFT STANDS

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
1	APN	654651.83N 0243437.08E	33 FT	67/F/A/W/T	NIL	ASPH	NIL
1B	APN	654651.92N 0243437.77E	34 FT	67/F/A/W/T	NIL	ASPH	NIL
2	APN	654654.10N 0243437.34E	32 FT	67/F/A/W/T	NIL	ASPH	NIL

EFKE AD 2.21 MELUNVAIMENNUSMENETELMÄT
EFKE AD 2.21 NOISE ABATEMENT PROCEDURES

Huom. REF ENR 1.5, kohta 4.1.

Note: REF ENR 1.5, para 4.1.

EFKE AD 2.22 LENTOMENETELMÄT
EFKE AD 2.22 FLIGHT PROCEDURES

Huom. Yleiset lähtö-, lähestymis- ja odotusmenetelmät on esitetty osassa ENR 1.5.

Note: The general departure, arrival and holding procedures are described in section ENR 1.5.

EFKE AD 2.23 LISÄTIETOJA
EFKE AD 2.23 ADDITIONAL INFORMATION

1 HYVÄKSYNTÄTODISTUKSESSA MYÖNNETYT POIKKEAMAT

1 ACCEPTED DEVIATIONS IN AERODROME CERTIFICATE

EU-ilmailumääräys Aerodrome rules	***Otsikko***	***Title***	***Poikkeaman kuvaus***	***Description of the deviation***
CS-ADR-DSN.B.060	Kiitotien pituuskaltevuus	Longitudinal slopes of runways	Kiitotien pituuskaltevuus ylittää lyhyellä matkalla maksimikaltevuuden	Runway longitudinal slope exceeds MAX slope on short distance

EU-ilmailumääräys Aerodrome rules	*Otsikko*	*Title*	*Poikkeaman kuvaus*	*Description of the deviation*
CS ADR-DSN.J.475	Ei-tarkkuuslähestymiskiitotiet	Non-precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.J.480	Tarkkuuslähestymiskiitotiet	Precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.M.630	CAT I lähestymisvalolinjan pituus	Precision approach category I lighting system	Tarkkuuslähestymiskiitotien 18 (CAT I) lähestymisvalojärjestelmän pituus on 680 M	Length of approach lighting system for precision approach runway 18 (CAT I) is 680 M
CS ADR-DSN.M.745	Kiitotien varoitusvalot	Runway guard lights	Kiitotien varoitusvalot puuttuvat	Runway guard lights missing

EFKE AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFKE AD 2.24 CHARTS RELATED TO THE AERODROME

Charts	*Pages*
ADC	EFKE AD 2.4 - 1
AOC RWY 18/36	EFKE AD 2.7 - 1
RNAV SID RWY 18	EFKE AD 2.10 - 1
RNAV SID RWY 36	EFKE AD 2.10 - 3
OMNIDIRECTIONAL DEPARTURES	EFKE AD 2.10 - 5
RNAV STAR RWY 18	EFKE AD 2.12 - 1
RNAV STAR RWY 36	EFKE AD 2.12 - 3
ILS or LOC RWY 18	EFKE AD 2.13 - 1
RNP RWY 18	EFKE AD 2.13 - 3
RNP RWY 36	EFKE AD 2.13 - 5
VAC	EFKE AD 2.14 - 1
LDG	EFKE AD 2.14 - 3
WAYPOINTS AND FIXES	EFKE AD 2.15 - 1
FAS DATA BLOCK	EFKE AD 2.15 - 3

EFKE AD 2.25 VSS LÄPÄISYT
EFKE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

Ei läpäisyjä. No penetrations.

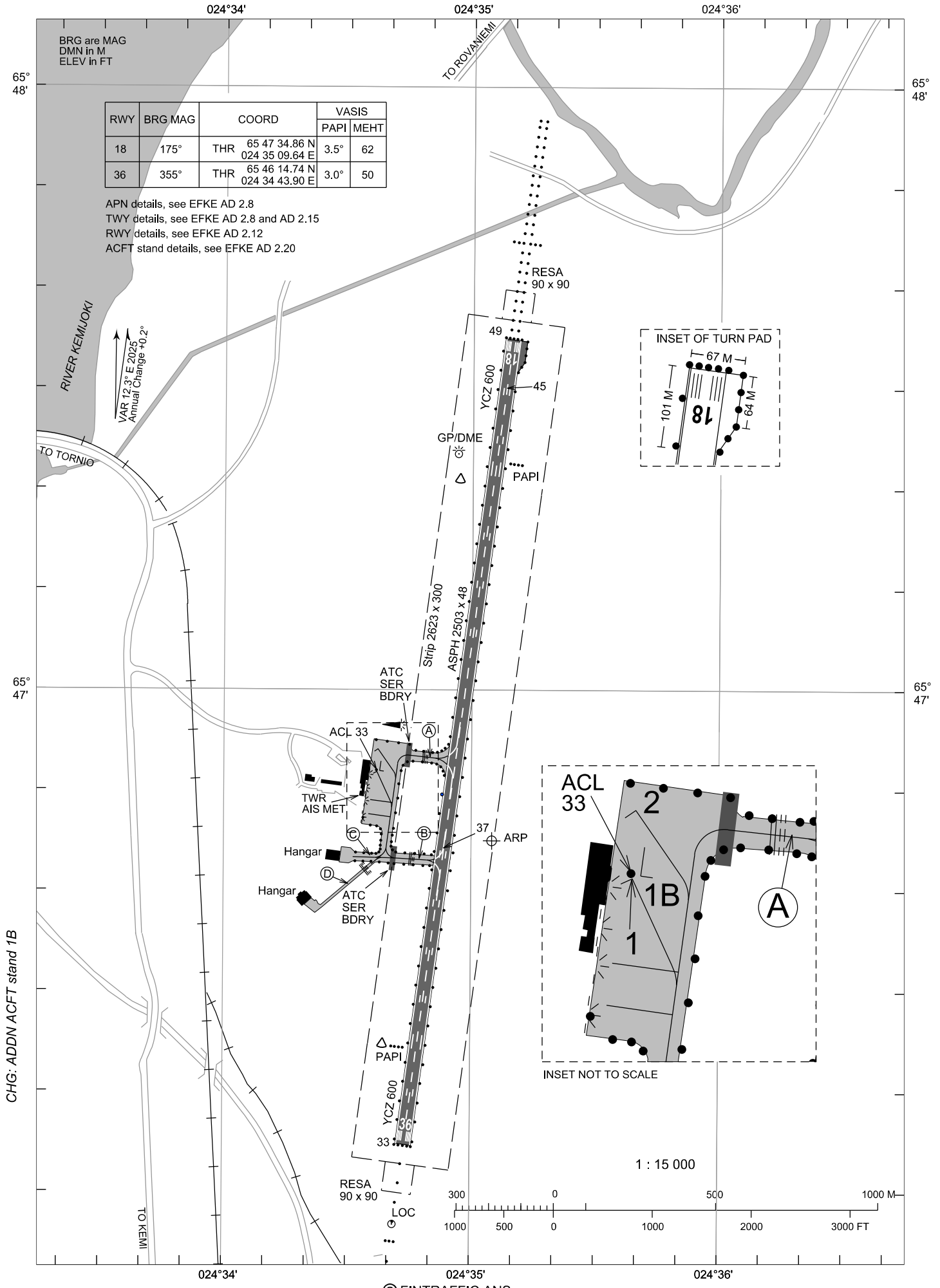
AERODROME CHART - ICAO

65 46 45 N
024 35 05 E

ELEV 62 FT

TWR 119.400

KEMI, FINLAND



RWY	BRG MAG	COORD	VASIS PAPI	VASIS MEHT
18	175°	THR 65 47 34.86 N 024 35 09.64 E	3.5°	62
36	355°	THR 65 46 14.74 N 024 34 43.90 E	3.0°	50

APN details, see EFKE AD 2.8
TWY details, see EFKE AD 2.8 and AD 2.15
RWY details, see EFKE AD 2.12
ACFT stand details, see EFKE AD 2.20

CHG: ADDN ACFT stand 1B

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RWY ID	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ LGT LEN*	*RCL LGT LEN spacing colour INTST*	*REDL LEN spacing colour INTST*	*RENL colour WBAR*	*SWY LGT LEN colour*	*RMK*
1	2	3	4	5	6	7	8	9	10
16	SIMPLE 420 M R LIL	G LIH	PAPI Left side/3° (50 FT)	NIL	NIL	W LIH YCZ 600 M	R LIH	NIL	NIL
34	CAT I 720 M W LIH R LIL	G LIH	PAPI Left side/3.4° (57 FT)	NIL	NIL	W LIH YCZ 600 M	R LIH	NIL	NIL

EFKT AD 2.15 MUU VALAISTUS, VARAVOIMA-ASEMA
EFKT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN / IBN sijainti, ominaistiedot ja toiminta-ajat* *ABN / IBN location, characteristics and hours of operation*	NIL
2	*LDI sijainti ja valaistus* *WDI sijainti ja valaistus* *LDI location and LGT* *WDI location and LGT*	LDI: NIL WDI: COORD: 674141N 0245055E, LGTD
3	*TWY reuna- ja keskilinjavalot* *TWY edge and centre line lighting*	Reunavalot / Edge LGT: A Reunavalot / Edge LGT: G Reunavalot / Edge LGT: L Reunavalot / Edge LGT: T
4	*Varavoima-asema* *Vaihtoaika* *Secondary power supply / switch-over time*	AVBL 12 SEC 1 SEC, kun RVR alle 550 M / when RVR below 550 M
5	*RMK*	NIL

EFKT AD 2.16 HELIKOPTERIEN LASKUALUE
EFKT AD 2.16 HELICOPTER LANDING AREA

FATO ID	*FATO THR COORD*	*FATO ELEV FT*	*FATO DMN M SFC MTOM Markings*	*True BRG of FATO*	*Declared distance AVBL*	*APP and FATO LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

TLOF ID	*TLOF COORD*	*TLOF ELEV FT*	*TLOF DMN M SFC MTOM Markings*	*True BRG of TLOF*	*Declared distance AVBL*	*APP and TLOF LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFKT AD 2.17 ATS-ILMATILA
EFKT AD 2.17 ATS AIRSPACE

Designation and lateral limits	*Vertical limits*	*Airspace classification*	*ATS unit call sign Language(s)*	*Transition altitude*	*Hours of applicability*	*RMK*
1	2	3	4	5	6	7
EFKT CTR Area bounded by lines joining points 675626N 0250229E - 673134N 0251740E - 672809N 0243941E - 675258N 0242352E to point of origin.	3300 FT MSL SFC	D	KITTILÄN TORNI KITTILÄ TOWER FI, EN	5000 FT MSL	NOTAM	RMZ H24
EFKT FIZ LOWER Area bounded by lines joining points 675626N 0250229E - 673134N 0251740E - 672809N 0243941E - 675258N 0242352E to point of origin.	3300 FT MSL SFC	G	KITTILÄN TIEDOTUS KITTILÄ IN-FORMATION FI, EN	5000 FT MSL	NOTAM	RMZ H24

ATS-palvelun taso (ATC tai AFIS) ilmoitetaan NOTAMilla. Menettelyohjeet koskien toimintaa AFIS-lentopaikalla on annettu osassa GEN 3.3, kohdassa 3.1

The status of ATS provided (ATC or AFIS) is published by NOTAM containing the OPR HR. Procedures at aerodromes, where AFIS is provided, see GEN 3.3, item 3.1.

EFKT AD 2.18 ATS-VIESTILAITTEET
EFKT AD 2.18 ATS COMMUNICATION FACILITIES

SER	*Call Sign*	*FREQ*	*HR UTC*	*SATVOICE*	*Logon address*	*RMK*
1	2	3	4	5	6	7
APP	KITTILÄN TUTKA KITTILÄ RADAR	118.950 MHZ 119.700 MHZ 121.500 MHZ	NOTAM	NIL	NIL	NIL
TWR	KITTILÄN TORNI KITTILÄ TOWER	118.950 MHZ 119.700 MHZ 121.500 MHZ	NOTAM	NIL	NIL	NIL
AFIS	KITTILÄN TIEDOTUS KITTILÄ INFORMATION	118.950 MHZ 119.700 MHZ 121.500 MHZ	NOTAM	NIL	NIL	NIL
GND	KITTILÄN SELVITYS KITTILÄ DELIVERY	123.100 MHZ	HO REF ATIS	NIL	NIL	Lähtevälle IFR-liikenteelle. For departing IFR traffic.
ATIS	-	133.850 MHZ	H24	NIL	NIL	EN D-ATIS REF AIP, GEN 3.4, kohta 3.3.4. EN D-ATIS REF AIP, GEN 3.4, para 3.3.4.

Huom. ATS-elimen toiminta-aikojen ulkopuolella ATIS-lähetettä ei valvota, joten se voi olla virheellinen.

Note: Outside the operational hours of ATS the ATIS broadcast is not monitored and may therefore be invalid.

EFKT AD 2.19 RADIOSUUNNISTUS- JA LASKEUTUMISLAITTEET
EFKT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

EU-ilmailumääräys *Aerodrome rules*	*Otsikko*	*Title*	*Poikkeaman kuvaus*	*Description of the deviation*
CS ADR-DSN.J.475	Ei-tarkkuuslähestymiskiitotiet	Non-precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.J.480	Tarkkuuslähestymiskiitotiet	Precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.M.630	CAT I lähestymisvalolinjan pituus	Precision approach category I lighting system	Tarkkuuslähestymiskiitotien 34 (CAT I) lähestymisvalojärjestelmän pituus on 720 M	Length of approach lighting system for precision approach runway 34 (CAT I) is 720 M
CS ADR-DSN.M.745	Kiitotien varoitusvalot	Runway guard lights	Kiitotien varoitusvalot puuttuvat	Runway guard lights missing

EFKT AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFKT AD 2.24 CHARTS RELATED TO THE AERODROME

Charts	*Pages*
ADC	EFKT AD 2.4 - 1
AOC RWY 16/34	EFKT AD 2.7 - 1
ATC SMAC	EFKT AD 2.9 - 1
RNAV SID RWY 16	EFKT AD 2.10 - 1
RNAV SID RWY 34	EFKT AD 2.10 - 3
OMNIDIRECTIONAL DEPARTURES	EFKT AD 2.10 - 5
RNAV STAR RWY 16	EFKT AD 2.12 - 1
RNAV STAR RWY 34	EFKT AD 2.12 - 3
LOC Z RWY 16	EFKT AD 2.13 - 1
LOC Y RWY 16	EFKT AD 2.13 - 3
RNP RWY 16	EFKT AD 2.13 - 5
ILS Z or LOC Z RWY 34	EFKT AD 2.13 - 7
ILS Y or LOC Y RWY 34	EFKT AD 2.13 - 9
RNP RWY 34	EFKT AD 2.13 - 11
VAC	EFKT AD 2.14 - 1
LDG	EFKT AD 2.14 - 3
WAYPOINTS AND FIXES	EFKT AD 2.15 - 1
FAS DATA BLOCK	EFKT AD 2.15 - 3

EFKT AD 2.25 VSS LÄPÄISYT
EFKT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

Ei läpäisyjä — No penetrations

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AERODROME CHART - ICAO

67 41 55 N
024 50 53 E

ELEV 645 FT

AFIS/TWR 118.950
GND 123.100

KITTILÄ, FINLAND

RWY	BRG MAG	COORD	VASIS PAPI	VASIS MEHT
16	154°	THR 67 42 42.85 N 024 50 23.15 E	3.0°	50
34	334°	THR 67 41 24.51 N 024 51 14.16 E	3.4°	57

APN details, see EFKT AD 2.8
TWY details, see EFKT AD 2.8 and AD 2.15
RWY details, see EFKT AD 2.12
ACFT stand details, see EFKT AD 2.20

BRG are MAG
DMN in M
ELEV in FT

VAR 11.8° E 2020
Annual Change +0.2°

024°49' 024°50' 024°51' 024°52'

67° 43'
67° 42'

LOC
RESA 240 x 90
633
16
YCZ 600
631
PAPI
To Muonio
2500 x 45 ASPH
Strip 2620 X 300
ATC SER BDRY
ARP
APN
GA Parking area
Fuel
AFIS/TWR
AIS
MET
ACL 624
LOC
GP/ DME
PAPI
YCZ 600
641
34
645
RESA 240 x 90
To Kittilä

INSET OF TURN PAD
86 M
67 M
126 M
16

INSET OF TURN PAD
126 M
34
33M
67 M
86 M

APN
ACL 624
7
8
9
10
11
11B
12
13
13B
14
14B
15
16
17
18

INSET NOT TO SCALE

1 : 15 000

300 0 500 1000 M
1000 500 0 1000 2000 3000 FT

CHG: ADDN GND FREQ

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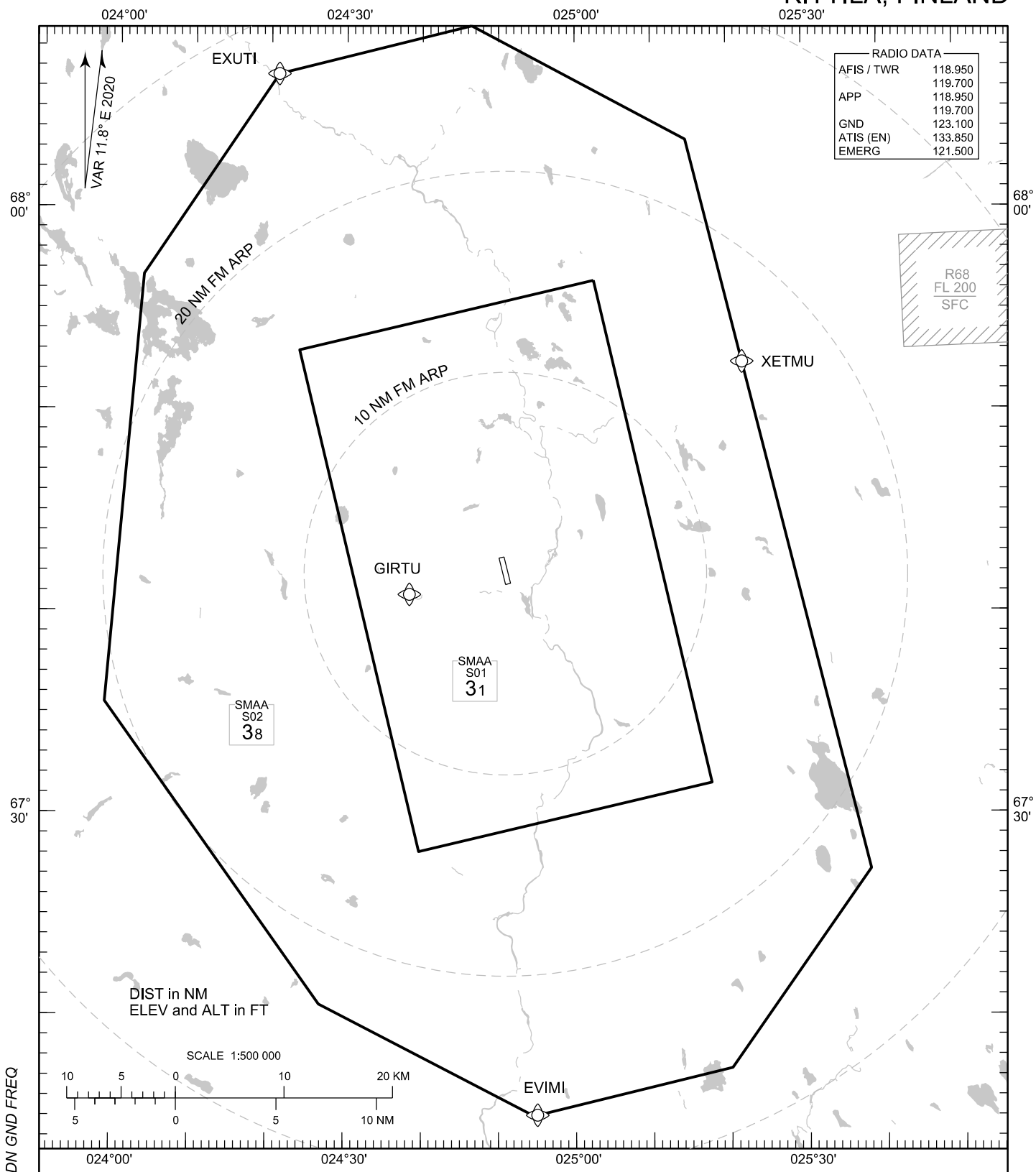
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

TRANSITION ALT 5000

ELEV 645 FT

ATC SMAC EFKT
KITTILÄ AERODROME

KITTILÄ, FINLAND



CHG: ADDN GND FREQ

ATC SURVEILLANCE MINIMUM ALTITUDE CHART

GENERAL INFORMATION:

A Surveillance Minimum Altitude Area (SMAA) is a defined area in which the minimum safe levels allocated by a controller giving an ATC Surveillance service for IFR flights have been predetermined.

SMAA's do not constitute controlled airspace nor do they attract any special airspace regulation in their own right. SMAA minimum safe level ensures obstacle clearance within the area concerned plus a 3.0 NM buffer area. Minimum safe level is determined by the highest obstacle elevation or the highest terrain elevation + 60 M, whichever is higher, plus safety margin of 300 M (984 FT) rounded up to the next higher hundred feet. Number 20 shown in the SMAA symbol equals 2000 FT MSL.

This chart may only be used for cross-checking of altitudes assigned while the aircraft is identified.

COMMUNICATION FAILURE: IN ACCORDANCE WITH THE RULES OF THE AIR

Coordinates for SMAA's are listed overleaf.

EFKT ATC SURVEILLANCE MINIMUM ALTITUDE AREAS		
NAME	**MIN ALT**	**AREA DEFINITION**
EFKT SMAA S01	3100 FT	675626N 0250229E - 673134N 0251740E - 672809N 0243941E - 675258N 0242352E - 675626N 0250229E

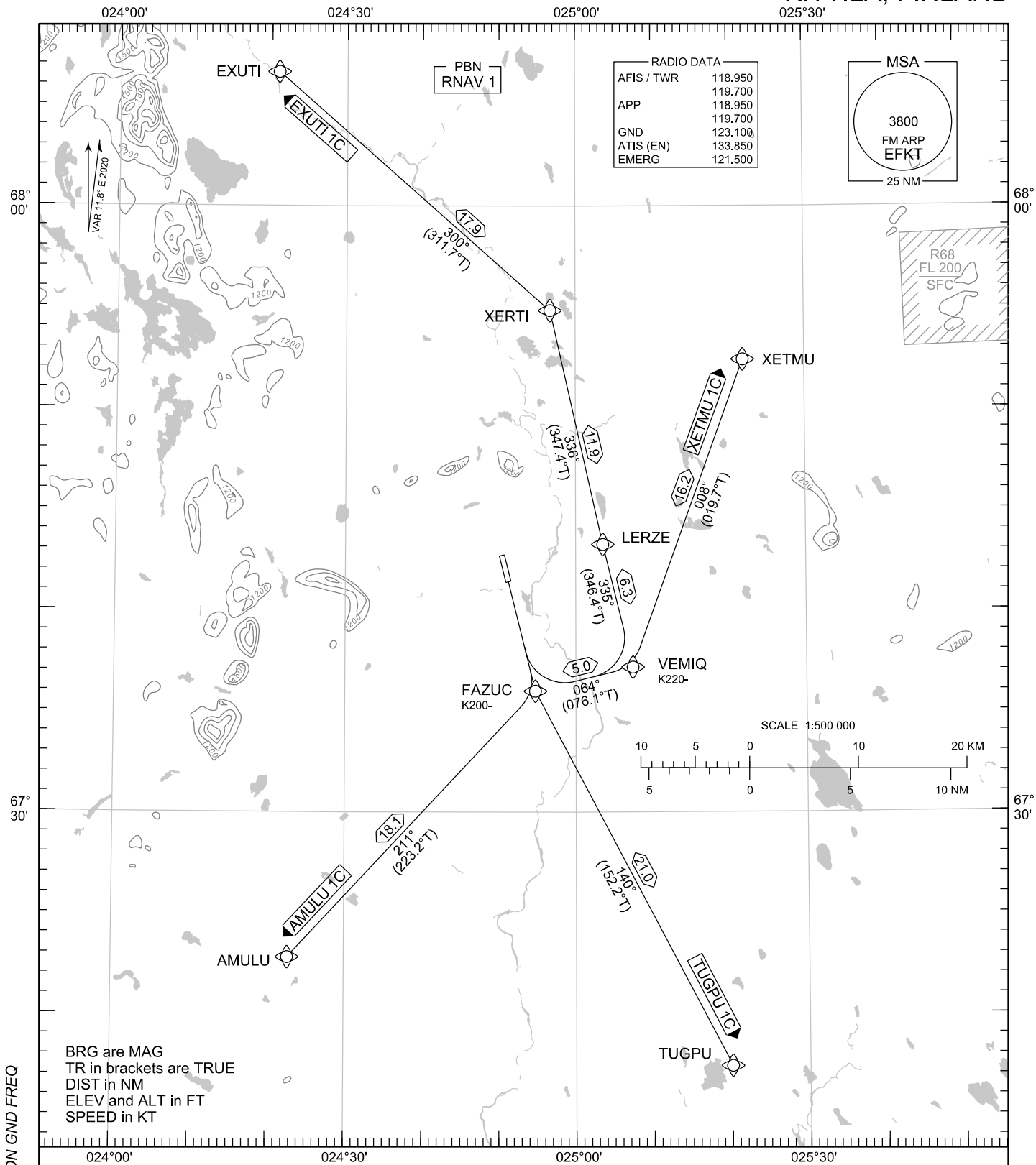
NAME	MIN ALT	AREA DEFINITION
EFKT SMAA S02	3800 FT	680902N 0244626E - 680324N 0251437E - 672716N 0253810E - 671726N 0252004E - 671503N 0245435E - 672035N 0242651E - 673531N 0235850E - 675642N 0240321E - 680638N 0242059E - 680902N 0244626E - Excluding EFKT SMAA S01

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALT
5000

RNAV (GNSS) SID RWY 16
KITTILÄ AERODROME

KITTILÄ, FINLAND



CHG: ADDN GND FREQ

RNAV SID RWY 16

AMULU 1C EXUTI 1C TUGPU 1C XETMU 1C

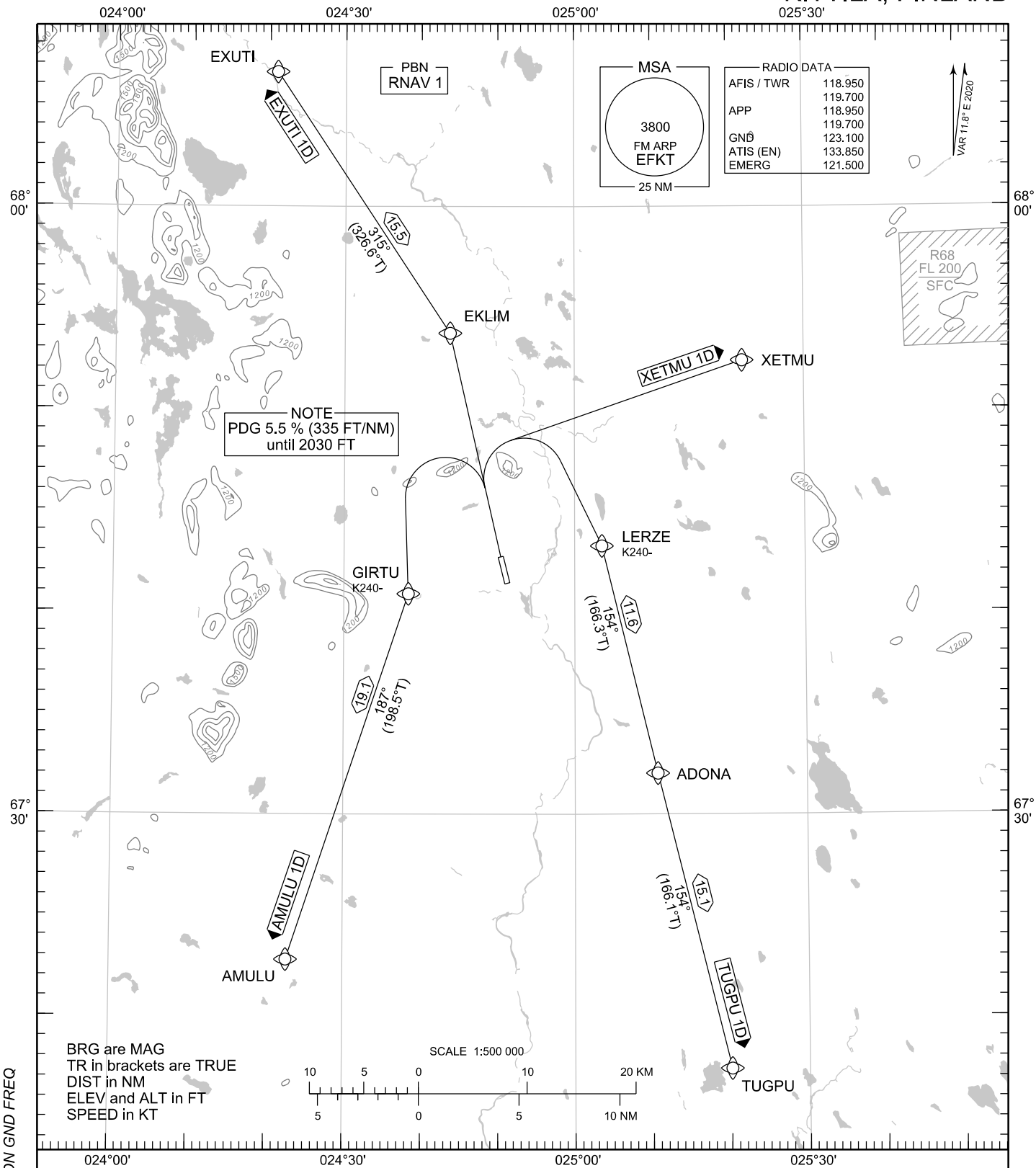
DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX AIP ENR 6.1 - 3

EFKT RNAV SID RWY 16										
RTE NAV SPEC	SEQ NR	P/T	WPT ID	WPT Flyover	MAG	GEO TR	DIST NM	Turn Direction	Constraints LVL	Constraints Speed
AMULU 1C RNAV 1	010	CA	-	-	154°	165.8°T	-		A1290+	
	020	DF	FAZUC	-	-	-	-			K200-
	030	TF	AMULU	-	211°	223.2°T	18.1			
EXUTI 1C RNAV 1	010	CA	-	-	154°	165.8°T	-		A1290+	
	020	DF	FAZUC	-	-	-	-			K200-
	030	TF	VEMIQ	-	064°	076.1°T	5.0	L		K220-
	040	TF	LERZE	-	335°	346.4°T	6.3			
	050	TF	XERTI	-	336°	347.4°T	11.9	L		
	060	TF	EXUTI	-	300°	311.7°T	17.9			
TUGPU 1C RNAV 1	010	CA	-	-	154°	165.8°T	-		A1290+	
	020	DF	FAZUC	-	-	-	-			K200-
	030	TF	TUGPU	-	140°	152.2°T	21.0			
XETMU 1C RNAV 1	010	CA	-	-	154°	165.8°T	-		A1290+	
	020	DF	FAZUC	-	-	-	-			K200-
	030	TF	VEMIQ	-	064°	076.1°T	5.0	L		K220-
	040	TF	XETMU	-	008°	019.7°T	16.2			

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

TRANSITION ALT
5000

KITTILÄ, FINLAND



CHG: ADDN GND FREQ

RNAV SID RWY 34

AMULU 1D EXUTI 1D TUGPU 1D XETMU 1D

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING
	PDG 5.5 % (335 FT/NM) UNTIL 2030 FT
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV
	PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX AIP ENR 6.1 - 3

EFKT RNAV SID RWY 34										
RTE NAV SPEC	SEQ NR	P/T	WPT ID	WPT Flyover	MAG	GEO TR	DIST NM	Turn Direction	Constraints LVL	Constraints Speed
AMULU 1D RNAV 1	010	CA	-	-	337°	348.8°T	-	L	A2090+	K220-
	020	DF	GIRTU	-	-	-	-			K240-
	030	TF	AMULU	-	187°	198.5°T	19.1			
EXUTI 1D RNAV 1	010	CA	-	-	337°	348.8°T	-		A2090+	
	020	DF	EKLIM	-	-	-	-			
	030	TF	EXUTI	-	315°	326.6°T	15.5			
TUGPU 1D RNAV 1	010	CA	-	-	337°	348.8°T	-	R	A2090+	K220-
	020	DF	LERZE	-	-	-	-			K240-
	030	TF	ADONA	-	154°	166.3°T	11.6			
	040	TF	TUGPU	-	154°	166.1°T	15.1			
XETMU 1D RNAV 1	010	CA	-	-	337°	348.8°T	-		A2090+	K220-
	020	DF	XETMU	-	-	-	-			

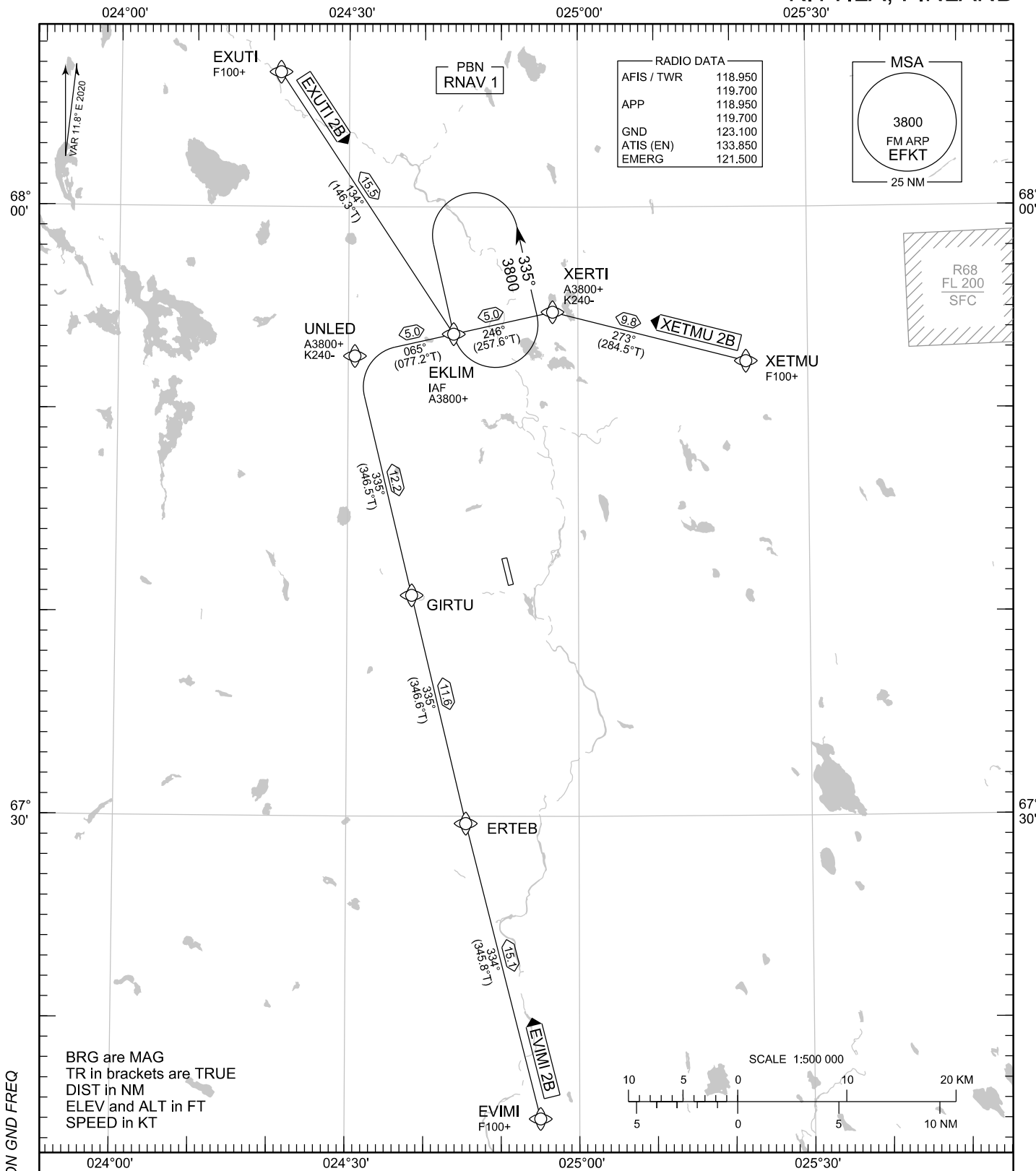
WPT COORD
SEE PAGE EFKT AD 2.15 - 1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION ALT
5000

RNAV (GNSS) STAR RWY 16
KITTILÄ AERODROME

KITTILÄ, FINLAND



CHG: ADDN GND FREQ

RNAV STAR RWY 16

EVIMI 2B EXUTI 2B XETMU 2B

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
AREA MNM ALT:	SEE AMA INDEX AIP ENR 6.1 - 3

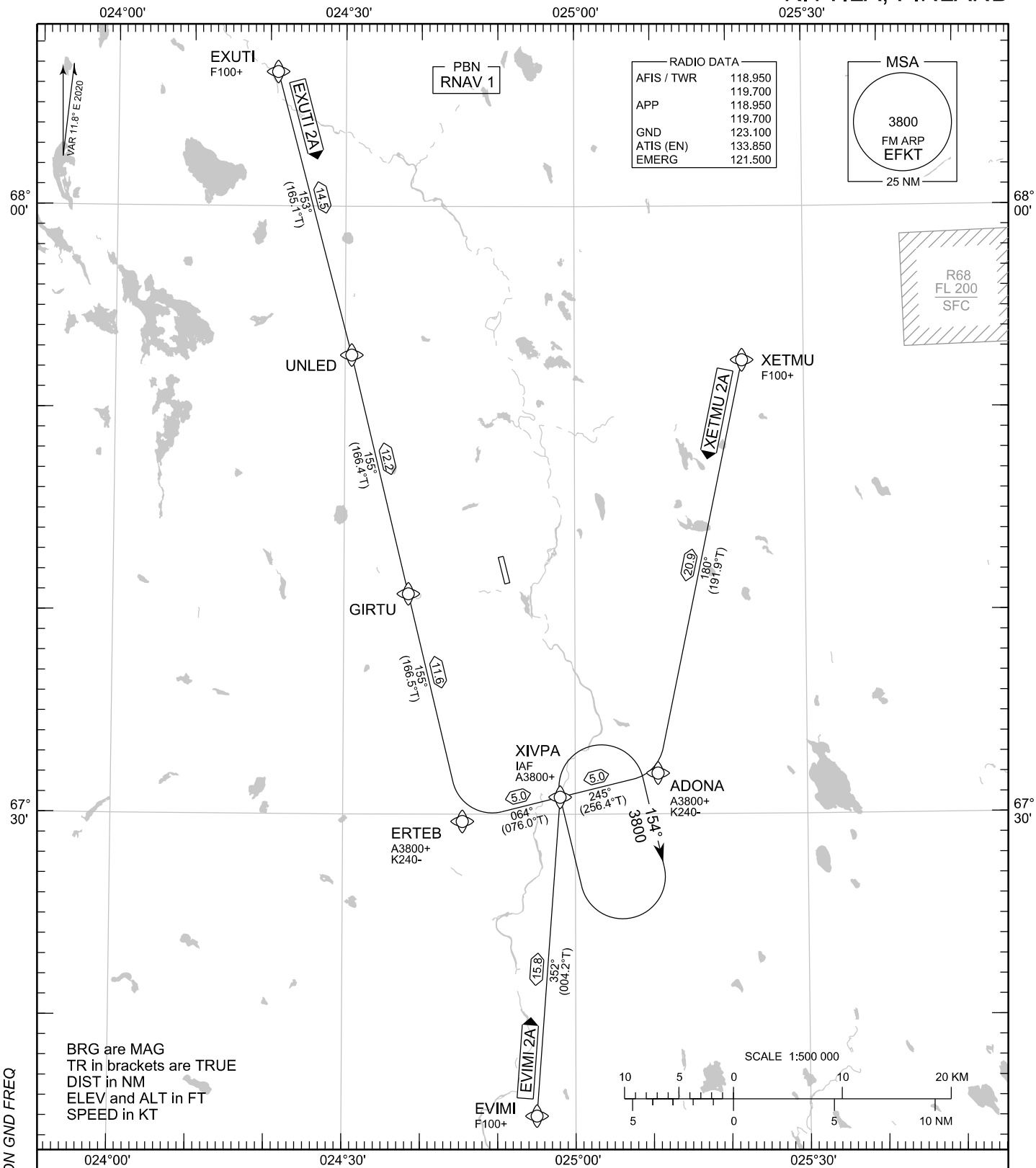
EFKT RNAV STAR RWY 16										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
EVIMI 2B RNAV 1	010	IF	EVIMI	-	-	-	-	F100+		
	020	TF	ERTEB	-	334°	345.8°T	15.1			
	030	TF	GIRTU	-	335°	346.6°T	11.6			
	040	TF	UNLED	-	335°	346.5°T	12.2	A3800+		K240-
	050	TF	EKLIM	-	065°	077.2°T	5.0	A3800+		
EXUTI 2B RNAV 1	010	IF	EXUTI	-	-	-	-	F100+		
	020	TF	EKLIM	-	134°	146.3°T	15.5	A3800+		
XETMU 2B RNAV 1	010	IF	XETMU	-	-	-	-	F100+		
	020	TF	XERTI	-	273°	284.5°T	9.8	A3800+		K240-
	030	TF	EKLIM	-	246°	257.6°T	5.0	A3800+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
EKLIM	167.3°T	155°	Left	K230-	A3800	1 MIN	-

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

TRANSITION ALT
5000

KITTILÄ, FINLAND



RNAV STAR RWY 34

EVIMI 2A EXUTI 2A XETMU 2A

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
AREA MNM ALT:	SEE AMA INDEX AIP ENR 6.1 - 3

CHG: ADDN GND FREQ

EFKT RNAV STAR RWY 34										
RTE NAV SPEC	SEQ NR	P/T	WPT ID	WPT Flyover	MAG	GEO TR	DIST NM	Constraints LVL	Constraints LVL	Constraints Speed
EVIMI 2A RNAV 1	010	IF	EVIMI	-	-	-	-	F100+		
	020	TF	XIVPA	-	352°	004.2°T	15.8	A3800+		
EXUTI 2A RNAV 1	010	IF	EXUTI	-	-	-	-	F100+		
	020	TF	UNLED	-	153°	165.1°T	14.5			
	030	TF	GIRTU	-	155°	166.4°T	12.2			
	040	TF	ERTEB	-	155°	166.5°T	11.6	A3800+		K240-
	050	TF	XIVPA	-	064°	076.0°T	5.0	A3800+		
XETMU 2A RNAV 1	010	IF	XETMU	-	-	-	-	F100+		
	020	TF	ADONA	-	180°	191.9°T	20.9	A3800+		K240-
	030	TF	XIVPA	-	245°	256.4°T	5.0	A3800+		

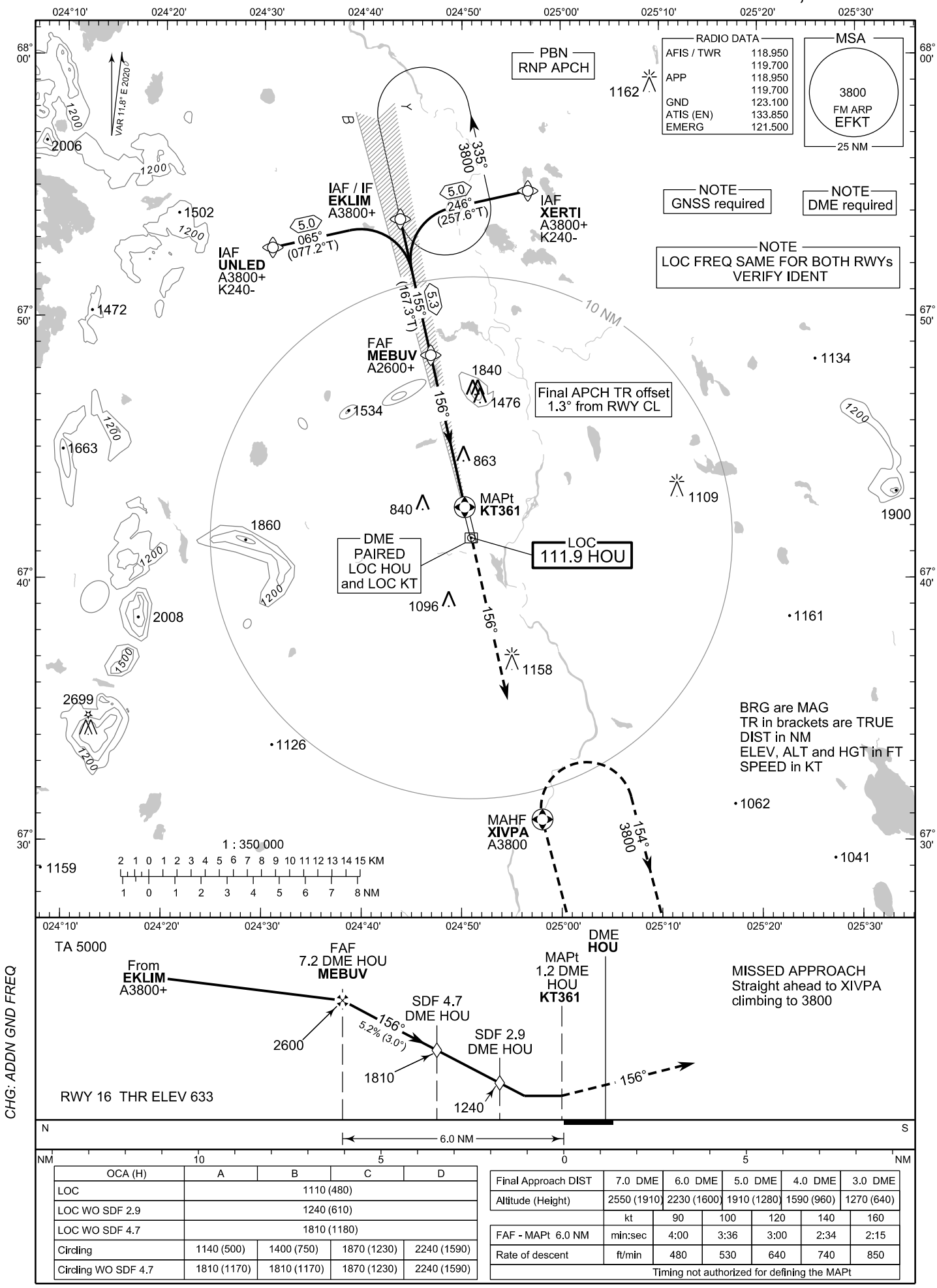
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
XIVPA	346.1°T	334°	Right	K230-	A3800	1 MIN	-

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 16 ELEV 633 FT

LOC Z RWY 16
KITTILÄ AERODROME

KITTILÄ, FINLAND



OCA (H)	A	B	C	D
LOC	1110 (480)			
LOC WO SDF 2.9	1240 (610)			
LOC WO SDF 4.7	1810 (1180)			
Circling	1140 (500)	1400 (750)	1870 (1230)	2240 (1590)
Circling WO SDF 4.7	1810 (1170)	1810 (1170)	1870 (1230)	2240 (1590)

Final Approach DIST	7.0 DME	6.0 DME	5.0 DME	4.0 DME	3.0 DME
Altitude (Height)	2550 (1910)	2230 (1600)	1910 (1280)	1590 (960)	1270 (640)
	kt	90	100	120	140	160
FAF - MAPt 6.0 NM	min:sec	4:00	3:36	3:00	2:34	2:15
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: ADDN GND FREQ

EFKT LOC Z RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
L16 XERTI RNP APCH	005	IF	XERTI	IAF	-				A3800+	K240-
						246°	257.6°T	5.0		
	010	TF	EKLIM	IF	-				A3800+	
						155°	167.3°T	5.3		
	020	TF	MEBUV	FAF	-				A2600+	
	030	TF	KT361	MAPt	Y					
						156°	167.8°T	-		
	040	CA	-	-	-				A1800+	
						-	-	-		
	050	DF	XIVPA	MAHF	Y				A3800	

EFKT LOC Z RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
L16 EKLIM RNP APCH	010	IF	EKLIM	IAF/IF	-				A3800+	
						155°	167.3°T	5.3		
	020	TF	MEBUV	FAF	-				A2600+	
	030	TF	KT361	MAPt	Y					
						156°	167.8°T	-		
	040	CA	-	-	-				A1800+	
						-	-	-		
	050	DF	XIVPA	MAHF	Y				A3800	

EFKT LOC Z RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
L16 UNLED RNP APCH	005	IF	UNLED	IAF	-				A3800+	K240-
						065°	077.2°T	5.0		
	010	TF	EKLIM	IF	-				A3800+	
						155°	167.3°T	5.3		
	020	TF	MEBUV	FAF	-				A2600+	
	030	TF	KT361	MAPt	Y					
						156°	167.8°T	-		
	040	CA	-	-	-				A1800+	
						-	-	-		
	050	DF	XIVPA	MAHF	Y				A3800	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
EKLIM	167.3°T	155°	Left	K230-	A3800	1 MIN	-
XIVPA	346.1°T	334°	Right	K230-	A3800	1 MIN	-

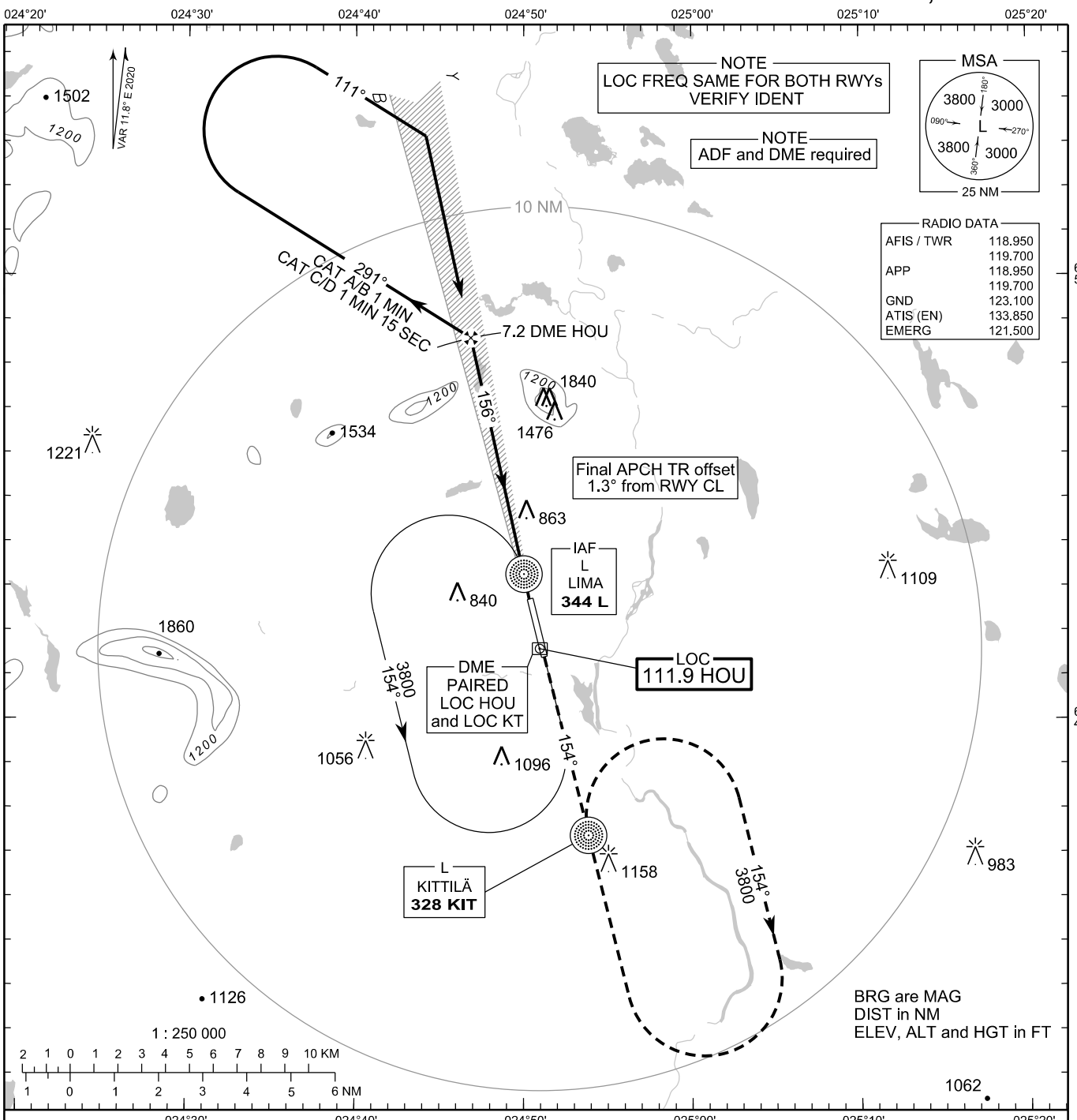
WPT COORD
SEE PAGE EFKT AD 2.15 - 1

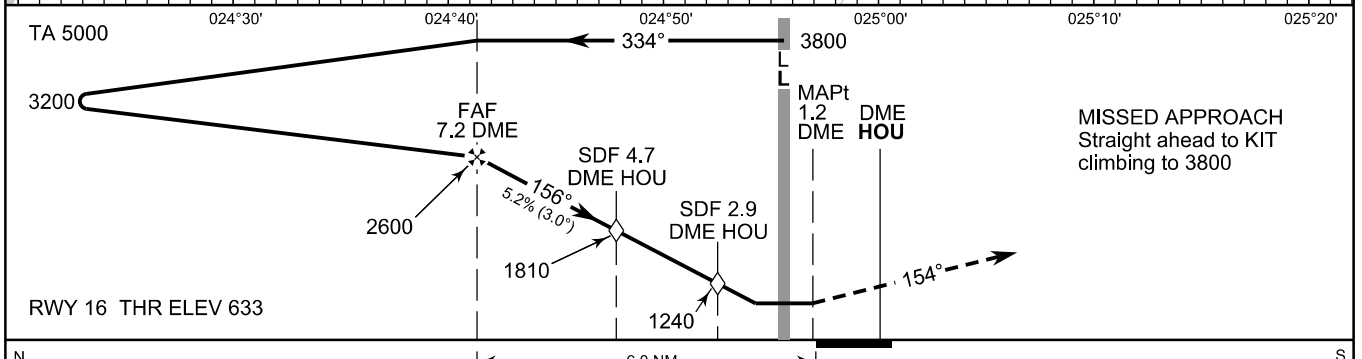
FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		TCH
	CAT	GPA	
5.24 % (3.00°)	-	-	50 FT

ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 16 ELEV 633 FT

LOC Y RWY 16
KITTILÄ AERODROME

KITTILÄ, FINLAND





OCA (H)	A	B	C	D
LOC	1110 (480)			
LOC WO SDF 2.9	1240 (610)			
LOC WO SDF 4.7	1810 (1180)			
Circling	1140 (500)	1400 (750)	1870 (1230)	2240 (1590)
Circling WO SDF 4.7	1810 (1170)	1810 (1170)	1870 (1230)	2240 (1590)

Final Approach DIST	7.0 DME	6.0 DME	5.0 DME	4.0 DME	3.0 DME
Altitude (Height)	2550 (1910)	2230 (1600)	1910 (1280)	1590 (960)	1270 (640)
	kt	90	100	120	140	160
FAF - MAPt 6.0 NM	min:sec	4:00	3:36	3:00	2:34	2:15
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: ADDN GND FREQ

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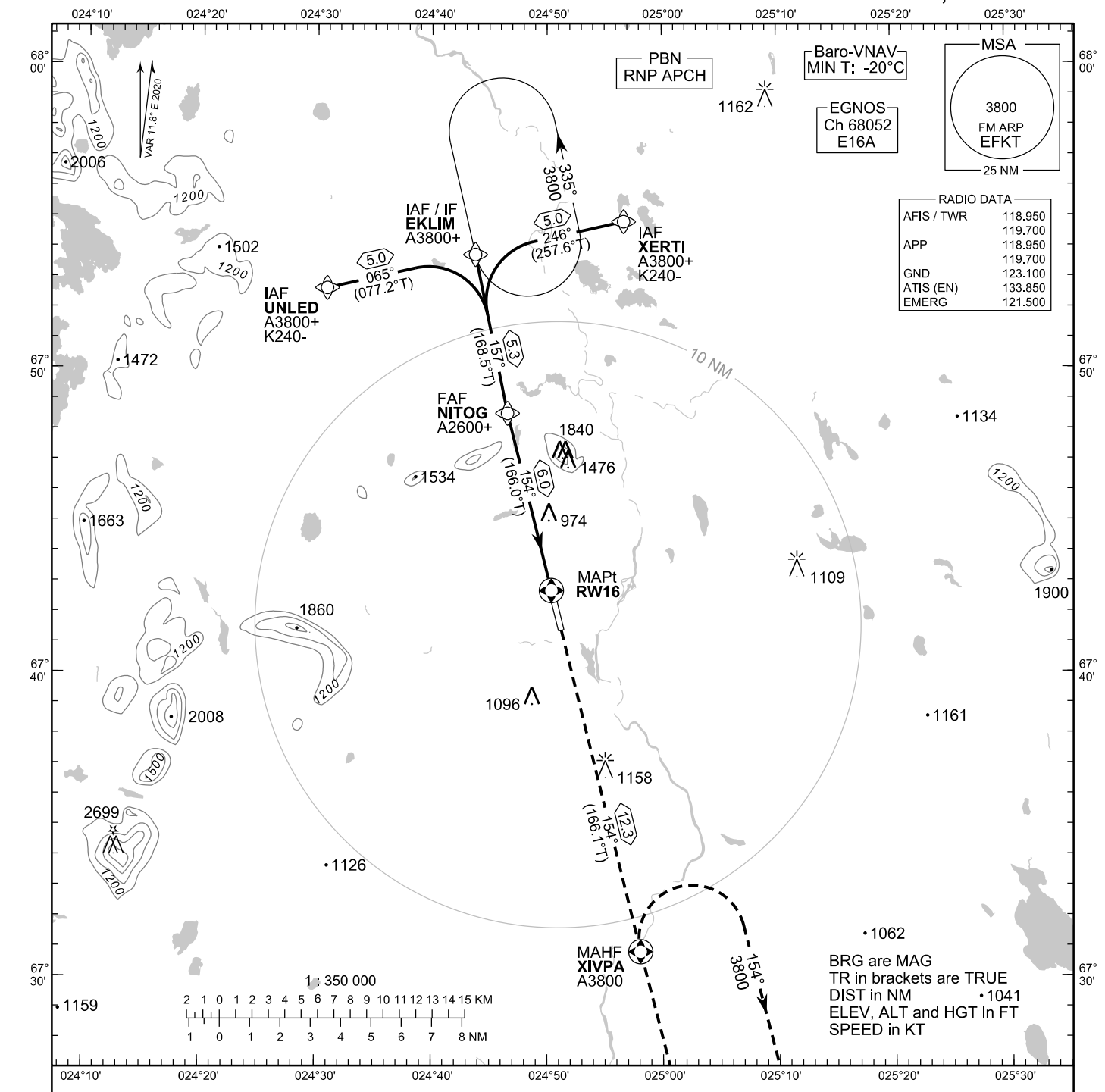
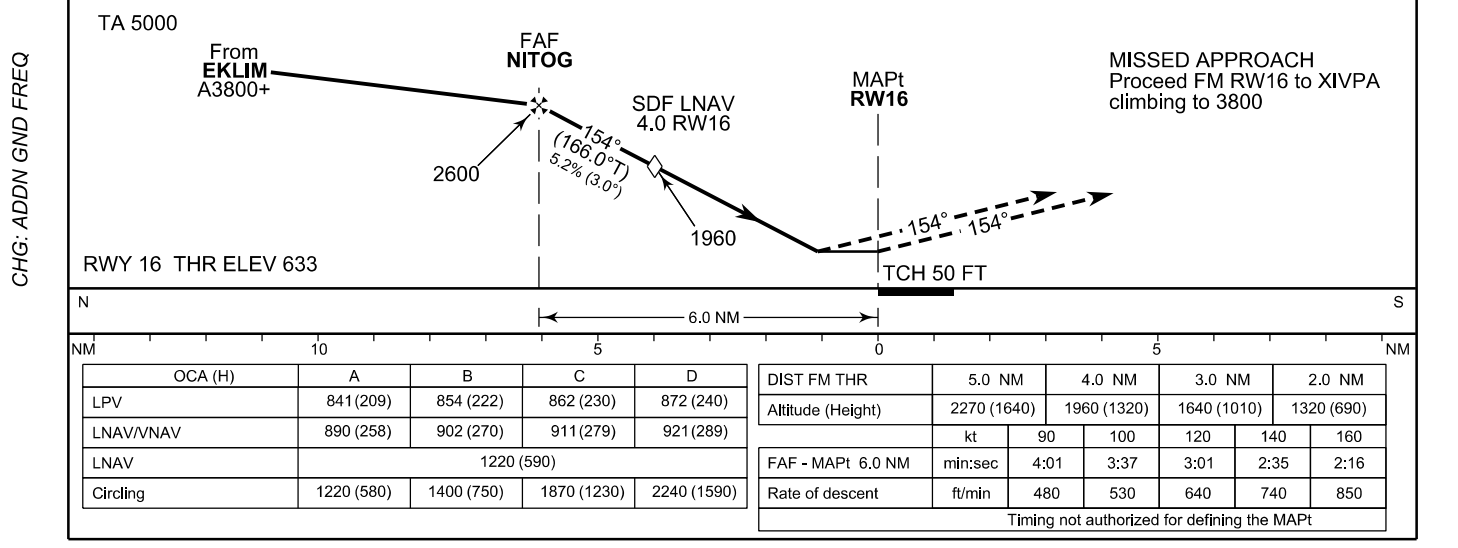
ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 16 ELEV 633 FT

RNP RWY 16
KITTILÄ AERODROME
KITTILÄ, FINLAND





OCA (H)	A	B	C	D
LPV	841 (209)	854 (222)	862 (230)	872 (240)
LNAV/VNAV	890 (258)	902 (270)	911 (279)	921 (289)
LNAV	1220 (590)			
Circling	1220 (580)	1400 (750)	1870 (1230)	2240 (1590)

DIST FM THR	5.0 NM	4.0 NM	3.0 NM	2.0 NM
Altitude (Height)	2270 (1640)	1960 (1320)	1640 (1010)	1320 (690)

	kt	90	100	120	140	160
FAF - MAPt 6.0 NM	min:sec	4:01	3:37	3:01	2:35	2:16
Rate of descent	ft/min	480	530	640	740	850

Timing not authorized for defining the MAPt

CHG: ADDN GND FREQ

EFKT RNP RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H16 XERTI RNP APCH	005	IF	XERTI	IAF	-				A3800+	K240-
						246°	257.6°T	5.0		
	010	TF	EKLIM	IF	-				A3800+	
						157°	168.5°T	5.3		
	020	TF	NITOG	FAF	-				A2600+	
						154°	166.0°T	6.0		
	030	TF	RW16	MAPt	Y					
						154°	166.1°T	12.3		
	040	TF	XIVPA	MAHF	Y				A3800	

EFKT RNP RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H16 EKLIM RNP APCH	010	IF	EKLIM	IAF/IF	-				A3800+	
						157°	168.5°T	5.3		
	020	TF	NITOG	FAF	-				A2600+	
						154°	166.0°T	6.0		
	030	TF	RW16	MAPt	Y					
						154°	166.1°T	12.3		
	040	TF	XIVPA	MAHF	Y				A3800	

EFKT RNP RWY 16										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H16 UNLED RNP APCH	005	IF	UNLED	IAF	-				A3800+	K240-
						065°	077.2°T	5.0		
	010	TF	EKLIM	IF	-				A3800+	
						157°	168.5°T	5.3		
	020	TF	NITOG	FAF	-				A2600+	
						154°	166.0°T	6.0		
	030	TF	RW16	MAPt	Y					
						154°	166.1°T	12.3		
	040	TF	XIVPA	MAHF	Y				A3800	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
EKLIM	167.3°T	155°	Left	K230-	A3800	1 MIN	-
XIVPA	346.1°T	334°	Right	K230-	A3800	1 MIN	-

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

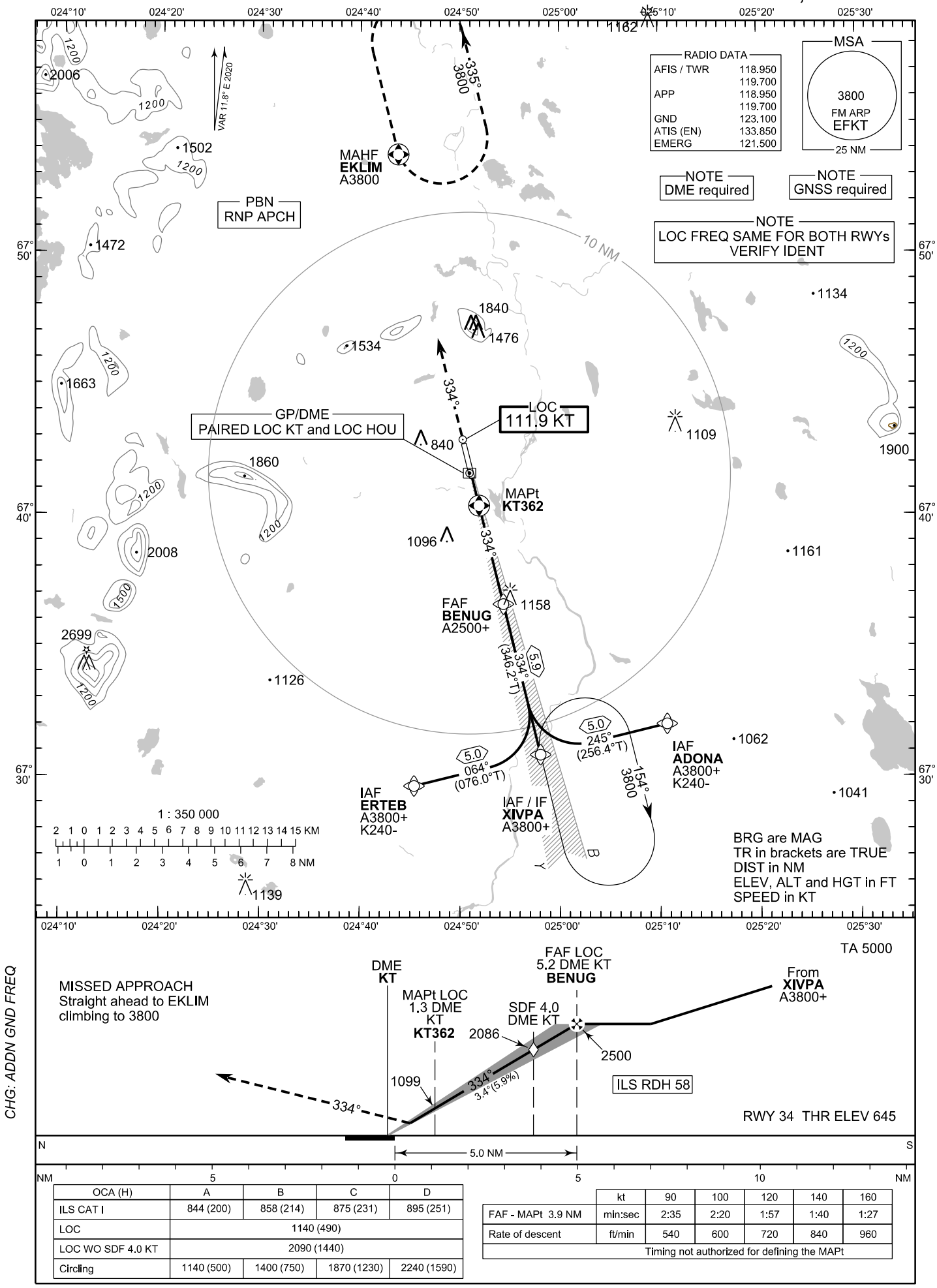
FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
5.24 % (3.00°)	3.00°	-20°C	50 FT

SBAS DATA	
Approach ID	E16A
Service Provider	EGNOS
CRC remainder	07 B4 A7 CD
Channel number	68052
Data Block	SEE EFKT AD 2.15 - 3

ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 34 ELEV 645 FT

ILS Z or LOC Z RWY 34
KITTILÄ AERODROME

KITTILÄ, FINLAND



OCA (H)	A	B	C	D
ILS CAT I	844 (200)	858 (214)	875 (231)	895 (251)
LOC	1140 (490)			
LOC WO SDF 4.0 KT	2090 (1440)			
Circling	1140 (500)	1400 (750)	1870 (1230)	2240 (1590)

	kt	90	100	120	140	160
FAF - MAPt 3.9 NM	min:sec	2:35	2:20	1:57	1:40	1:27
Rate of descent	ft/min	540	600	720	840	960
Timing not authorized for defining the MAPt						

CHG: ADDN GND FREQ

EFKT ILS Z or LOC Z RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I34 ERTEB RNP APCH	005	IF	ERTEB	IAF	-				A3800+	K240-
						064°	076.0°T	5.0		
	010	TF	XIVPA	IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF LOC	-				A2500+	
	030	TF	KT362	MAPt LOC	Y					
						334°	345.8°T	-		
	040	CA	-	-	-				A1200+	
						-	-	-		
	050	DF	EKLIM	MAHF	Y				A3800	

EFKT ILS Z or LOC Z RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I34 XIVPA RNP APCH	010	IF	XIVPA	IAF/IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF LOC	-				A2500+	
	030	TF	KT362	MAPt LOC	Y					
						334°	345.8°T	-		
	040	CA	-	-	-				A1200+	
						-	-	-		
	050	DF	EKLIM	MAHF	Y				A3800	

EFKT ILS Z or LOC Z RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I34 ADONA RNP APCH	005	IF	ADONA	IAF	-				A3800+	K240-
						245°	256.4°T	5.0		
	010	TF	XIVPA	IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF LOC	-				A2500+	
	030	TF	KT362	MAPt LOC	Y					
						334°	345.8°T	-		
	040	CA	-	-	-				A1200+	
						-	-	-		
	050	DF	EKLIM	MAHF	Y				A3800	

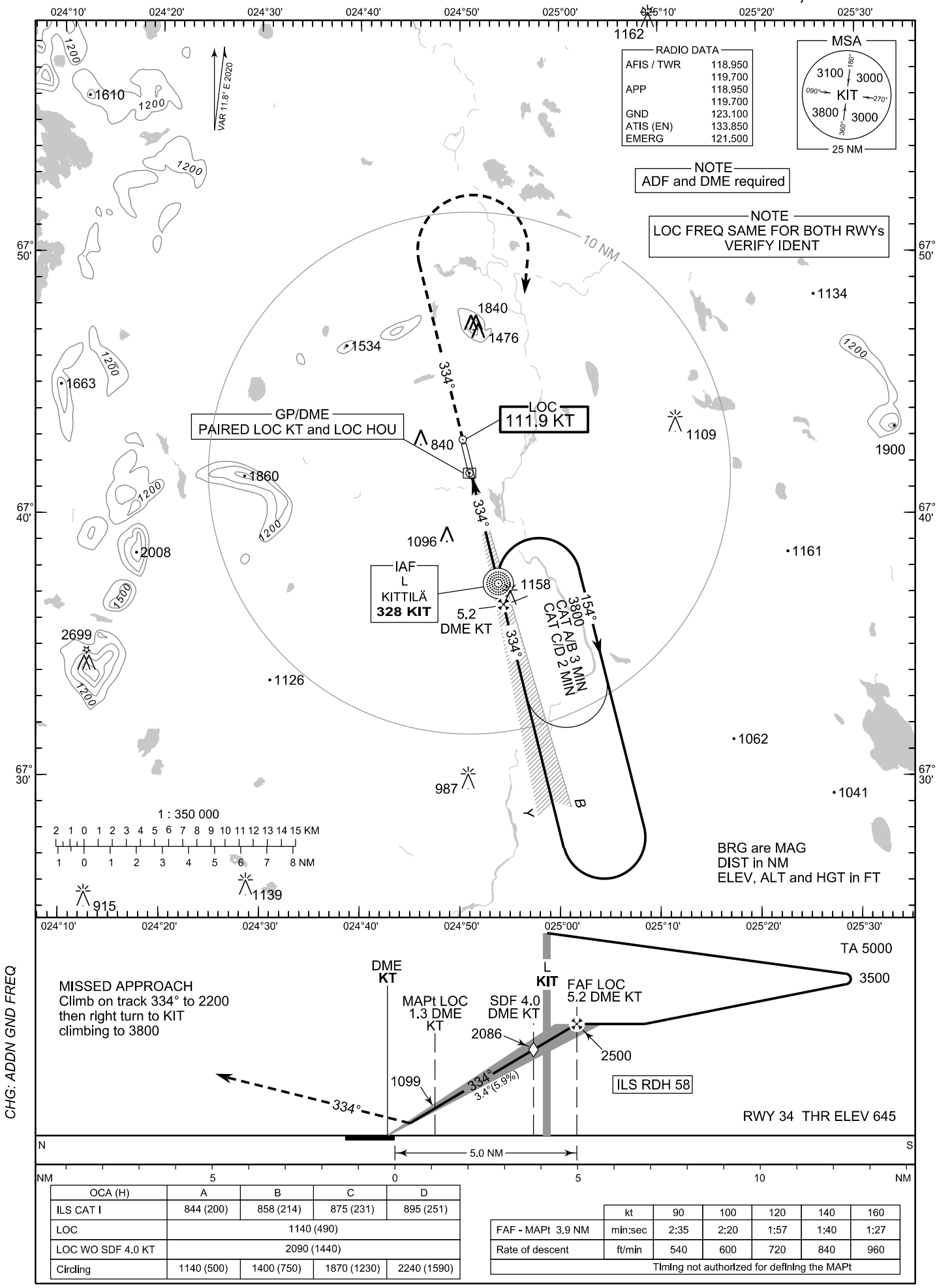
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
XIVPA	346.1°T	334°	Right	K230-	A3800	1 MIN	-
EKLIM	167.3°T	155°	Left	K230-	A3800	1 MIN	-

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		RDH
	CAT	GPA	
5.94 % (3.40°)	I	3.40°	58 FT

ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 34 ELEV 645 FT

ILS Y or LOC Y RWY 34
KITTILÄ AERODROME
KITTILÄ, FINLAND



OCA (H)	A	B	C	D
ILS CAT I	844 (200)	858 (214)	875 (231)	895 (251)
LOC	1140 (490)			
LOC WO SDF 4.0 KT	2090 (1440)			
Circling	1140 (500)	1400 (750)	1870 (1230)	2240 (1590)

	kt	90	100	120	140	160
FAF - MAPt 3.9 NM	min:sec	2:35	2:20	1:57	1:40	1:27
Rate of descent	ft/min	540	600	720	840	960
Timing not authorized for defining the MAPt						

CHG: ADDN GND FREQ

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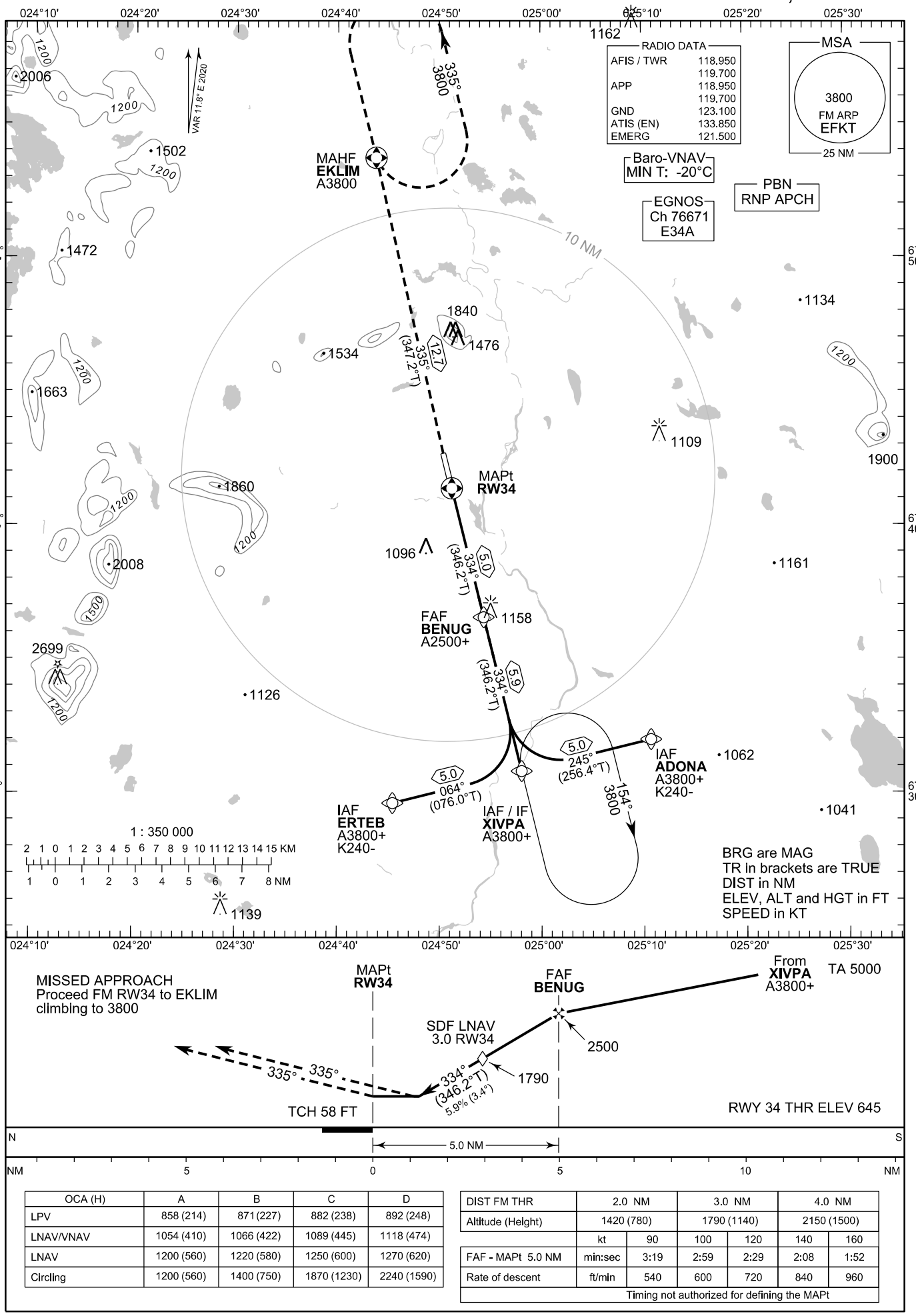
ELEV 645 FT
HEIGHTS RELATED TO
THR RWY 34 ELEV 645 FT

KITTILÄ, FINLAND



CHG: ADDN GND FREQ

OCA (H)	A	B	C	D
LPV	858 (214)	871 (227)	882 (238)	892 (248)
LNAV/VNAV	1054 (410)	1066 (422)	1089 (445)	1118 (474)
LNAV	1200 (560)	1220 (580)	1250 (600)	1270 (620)
Circling	1200 (560)	1400 (750)	1870 (1230)	2240 (1590)

DIST FM THR	2.0 NM		3.0 NM		4.0 NM	
Altitude (Height)	1420 (780)		1790 (1140)		2150 (1500)	
	kt	90	100	120	140	160
FAF - MAPt 5.0 NM	min:sec	3:19	2:59	2:29	2:08	1:52
Rate of descent	ft/min	540	600	720	840	960
Timing not authorized for defining the MAPt						

EFKT RNP RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H34 ERTEB RNP APCH	005	IF	ERTEB	IAF	-				A3800+	K240-
						064°	076.0°T	5.0		
	010	TF	XIVPA	IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF	-				A2500+	
						334°	346.2°T	5.0		
	030	TF	RW34	MAPt	Y					
						335°	347.2°T	12.7		
	040	TF	EKLIM	MAHF	Y				A3800	

EFKT RNP RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H34 XIVPA RNP APCH	010	IF	XIVPA	IAF/IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF	-				A2500+	
						334°	346.2°T	5.0		
	030	TF	RW34	MAPt	Y					
						335°	347.2°T	12.7		
	040	TF	EKLIM	MAHF	Y				A3800	

EFKT RNP RWY 34										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H34 ADONA RNP APCH	005	IF	ADONA	IAF	-				A3800+	K240-
						245°	256.4°T	5.0		
	010	TF	XIVPA	IF	-				A3800+	
						334°	346.2°T	5.9		
	020	TF	BENUG	FAF	-				A2500+	
						334°	346.2°T	5.0		
	030	TF	RW34	MAPt	Y					
						335°	347.2°T	12.7		
	040	TF	EKLIM	MAHF	Y				A3800	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
XIVPA	346.1°T	334°	Right	K230-	A3800	1 MIN	-
EKLIM	167.3°T	155°	Left	K230-	A3800	1 MIN	-

WPT COORD
SEE PAGE EFKT AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
5.94 % (3.40°)	3.40°	-20°C	58 FT

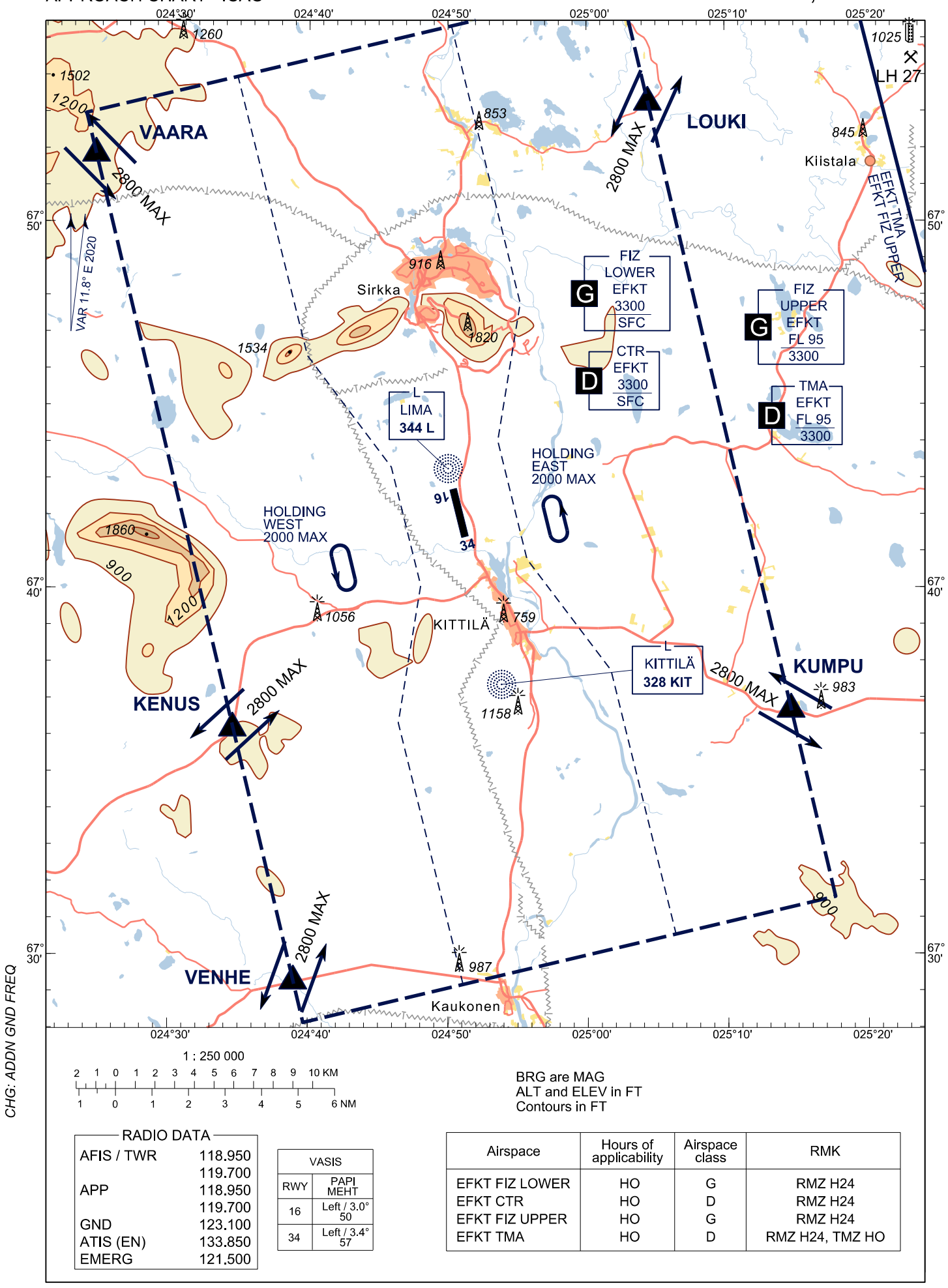
SBAS DATA	
Approach ID	E34A
Service Provider	EGNOS
CRC remainder	9E 76 5A 40
Channel number	76671
Data Block	SEE EFKT AD 2.15 - 3

KITTILÄ AERODROME

VISUAL
APPROACH CHART - ICAO

ELEV 645 FT

KITTILÄ, FINLAND



1 : 250 000

2 1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 6 NM

BRG are MAG
ALT and ELEV in FT
Contours in FT

CHG: ADDN GND FREQ

RADIO DATA	
AFIS / TWR	118.950
	119.700
APP	118.950
	119.700
GND	123.100
ATIS (EN)	133.850
EMERG	121.500

VASIS	
RWY	PAPI MEHT
16	Left / 3.0° 50
34	Left / 3.4° 57

Airspace	Hours of applicability	Airspace class	RMK
EFKT FIZ LOWER	HO	G	RMZ H24
EFKT CTR	HO	D	RMZ H24
EFKT FIZ UPPER	HO	G	RMZ H24
EFKT TMA	HO	D	RMZ H24, TMZ HO

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Type of aid MAG VAR CAT of ILS / MLS DECL	*ID*	*FREQ CH*	*HR UTC*	*PSN*	*DME ELEV FT*	*Service volume radius*	*RMK*
1	2	3	4	5	6	7	8
LOC 19 ILS CAT I (11° E 2025)	KK	109.300 MHZ	H24	634219.10N 0230813.50E	NIL	NIL	NIL
GP 19 ILS CAT I	KK	332.000 MHZ	H24	634338.19N 0230837.65E	NIL	NIL	Angle: 3.0°
DME 19 ILS CAT I	KK	109.300 MHZ (CH30X)	H24	634338.19N 0230837.65E	135 FT	NIL	NIL

Huom. ATS-elimen toiminta-aikojen ulkopuolella radiosuunnistus- ja laskeutumislaitteiden lähetteitä ei valvota, joten ne voivat olla virheellisiä.

Note: Outside the operational hours of ATS the signals of radio navigation and landing aids are not monitored and may therefore be invalid.

EFKK AD 2.20 PAIKALLISET MÄÄRÄYKSET
EFKK AD 2.20 LOCAL AERODROME REGULATIONS

1 MENETELMÄT LENTOONLÄHTÖJÄ VARTEN TAPAUKSISSA, JOISSA EI KÄYTETÄ KIITOTIEN KOKO PITUUTTA

Lentoonlähtö kiitotien ja rullausteiden risteyksistä voidaan suorittaa ilma-aluksen päällikön pyynnöstä liikennetilanteen salliessa.

Laskennalliset pituudet, ks. kohta AD 2.13.

1 PROCEDURES FOR INTERSECTION TAKE-OFFS

Take-offs from the specified intersections of runway / taxiway intersections can be performed upon the pilot-in-command's request the traffic situation permitting.

Declared distances, see para AD 2.13.

2 LENTOTOIMINTA HUONOISSA NÄKYVYYSOLOSUHTEISSA

Kiitotienäkyvyyden (RVR) ollessa 550 M - 400 M ovat lentoonlähdöt mahdollisia ainoastaan silloin, kun vain yksi ilma-alus kerrallaan on liikennealueella.

2 OPERATIONS IN LOW VISIBILITY CONDITIONS

When RVR is 550 M - 400 M, take-offs are allowed providing that only one aircraft at a time is in the manoeuvring area.

3 VFR-LIIKENTEEN RAJOITTAMINEN

Lennonjohto rajoittaa tarvittaessa laskukierrokseen selvitettävien ilma-alusten lukumäärää. Sovellettavaan lukumäärään vaikuttavat esim. sää, kunnossapitotyöt tai muu liikenne.

3 VFR TRAFFIC RESTRICTIONS

If necessary, the number of aircraft cleared to fly in the aerodrome traffic circuit is restricted by ATC. The number of aircraft is determined by e.g. weather conditions, maintenance works or other traffic.

4 TANKKAUSTOIMINTAA KOSKEVA RAJOITUS

Polttoainekanistereiden tai vastaavien käyttö tankkaukseen on lentokenttäalueella kielletty, ellei lentoasema ole paikallisesti muunlaista menettelyä kirjallisesti julkaissut.

4 RESTRICTION CONCERNING AIRCRAFT REFUELLING

The use of fuel canisters, and the like, for refuelling is prohibited in the airport area unless the airport has published a written local procedure.

5 ILMA-ALUKSEN SEISONTAPAIKAT

5 AIRCRAFT STANDS

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
1	APN	634308.51N 0230807.76E	81 FT	50/F/A/W/T	NIL	ASPH	NIL
2	APN	634310.08N 0230804.57E	81 FT	50/F/A/W/T	NIL	ASPH	NIL
2B	APN	634311.15N 0230803.52E	81 FT	50/F/A/W/T	NIL	ASPH	NIL

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
3	APN	634311.19N 0230802.48E	81 FT	50/F/A/W/T	NIL	ASPH	NIL
3B	APN	634310.58N 0230804.20E	81 FT	50/F/A/W/T	NIL	ASPH	NIL

EFKK AD 2.21 MELUNVAIMENNUSMENETELMÄT
EFKK AD 2.21 NOISE ABATEMENT PROCEDURES

Huom. REF ENR 1.5, kohta 4.1.

Note: REF ENR 1.5, para 4.1.

EFKK AD 2.22 LENTOMENETELMÄT
EFKK AD 2.22 FLIGHT PROCEDURES

Huom. Yleiset lähtö-, lähestymis- ja odotusmenetelmät on esitetty osassa ENR 1.5.

Note: The general departure, arrival and holding procedures are described in section ENR 1.5.

EFKK AD 2.23 LISÄTIETOJA
EFKK AD 2.23 ADDITIONAL INFORMATION

1 HYVÄKSYNTÄTODISTUKSESSA MYÖNNETYT POIKKEAMAT

1 ACCEPTED DEVIATIONS IN AERODROME CERTIFICATE

EU-ilmailumääräys ***Aerodrome rules***	***Otsikko***	***Title***	***Poikkeaman kuvaus***	***Description of the deviation***
CS ADR-DSN.M.745	Kiitotien varoitusvalot	Runway guard lights	Kiitotien varoitusvalot puuttuvat	Runway guard lights missing

EFKK AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFKK AD 2.24 CHARTS RELATED TO THE AERODROME

Charts	*Pages*
ADC	EFKK AD 2.4 - 1
AOC RWY 01/19	EFKK AD 2.7 - 1
RNAV SID RWY 01	EFKK AD 2.10 - 1
RNAV SID RWY 19	EFKK AD 2.10 - 3
OMNIDIRECTIONAL DEPARTURES	EFKK AD 2.10 - 5
RNAV STAR RWY 01	EFKK AD 2.12 - 1
RNAV STAR RWY 19	EFKK AD 2.12 - 3
RNP RWY 01	EFKK AD 2.13 - 1
ILS or LOC RWY 19	EFKK AD 2.13 - 3
RNP RWY 19	EFKK AD 2.13 - 5
VAC	EFKK AD 2.14 - 1
LDG	EFKK AD 2.14 - 3
WAYPOINTS AND FIXES	EFKK AD 2.15 - 1
FAS DATA BLOCK	EFKK AD 2.15 - 3

EFKK AD 2.25 VSS LÄPÄISYT
EFKK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

Ei läpäisyjä

No penetrations

AERODROME CHART - ICAO

63 43 13 N
023 08 21 E

TWR 120.100
ELEV 85 FT

KOKKOLA-PIETARSAARI, FINLAND

BRG are MAG
DMN in M
ELEV in FT

RWY	BRG MAG	COORD	VASIS PAPI	VASIS MEHT
19	180°	THR 63 43 47.59 N 023 08 51.00 E	3.0°	58
01	360°	THR 63 42 28.25 N 023 08 17.37 E	3.0°	50
11	102°	THR 63 43 25.10 N 023 07 48.29 E		
29	282°	THR 63 43 16.27 N 023 08 35.21 E		

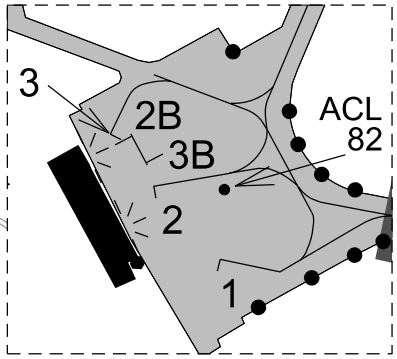
VAR 10,9° E 2025
Annual Change +0,2°

APN details, see EFKK AD 2.8
TWY details, see EFKK AD 2.8 and AD 2.15
RWY details, see EFKK AD 2.12
ACFT stand details, see EFKK AD 2.20

023°07' 023°08' 023°09'

63° 44'
63° 43'

RESA 90 x 90
83
06
YCZ 600
GP/DME
85
PAPI
79
11
Strip 760 x 60
700 x 20 ASPH
ATC SER BDRY
29
82
Hangar
ARP
ACL 82
ASPH 2500 x 60
Strip 2620 X 300
ATC SER BDRY
TWR
AIS
MET
TO KOKKOLA AND PIETARSAARI
PAPI
YCZ 600
01
79
RESA 90 x 120
LOC



INSET NOT TO SCALE

1 : 15 000

300 0 500 1000 M
1000 500 0 1000 2000 3000 FT

CHG: ADDN ACFT stands 2B, 3B

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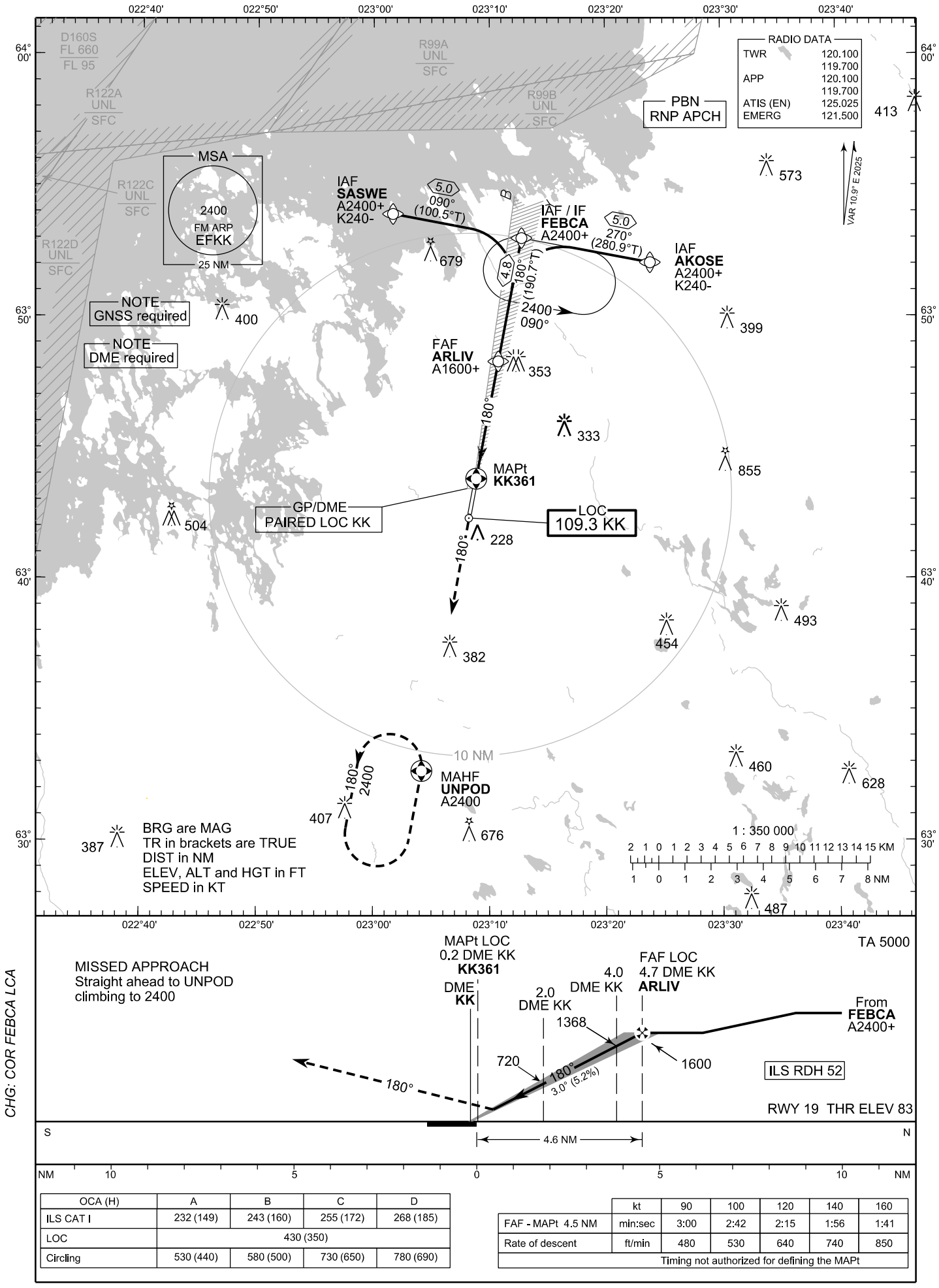
KOKKOLA-PIETARSAARI, FINLAND



OCA (H)	A	B	C	D
ILS CAT I	232 (149)	243 (160)	255 (172)	268 (185)
LOC	430 (350)			
Circling	530 (440)	580 (500)	730 (650)	780 (690)

	kt	90	100	120	140	160
FAF - MAPt 4.5 NM	min:sec	3:00	2:42	2:15	1:56	1:41
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: COR FEBCA LCA

EFKK ILS or LOC RWY 19										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I19 AKOSE RNP APCH	005	IF	AKOSE	IAF	-				A2400+	K240-
	010	TF	FEBCA	IF	-	270°	280.9°T	5.0	A2400+	
	020	TF	ARLIV	FAF LOC	-	180°	190.7°T	4.8	A1600+	
	030	TF	KK361	MAPt LOC	Y					
	040	CA	-	-	-	180°	190.9°T	-	A500+	
	050	DF	UNPOD	MAHF	Y	-	-	-	A2400	

EFKK ILS or LOC RWY 19										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I19 FEBCA RNP APCH	010	IF	FEBCA	IAF/IF	-				A2400+	
	020	TF	ARLIV	FAF LOC	-	180°	190.7°T	4.8	A1600+	
	030	TF	KK361	MAPt LOC	Y					
	040	CA	-	-	-	180°	190.9°T	-	A500+	
	050	DF	UNPOD	MAHF	Y	-	-	-	A2400	

EFKK ILS or LOC RWY 19										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I19 SASWE RNP APCH	005	IF	SASWE	IAF	-				A2400+	K240-
	010	TF	FEBCA	IF	-	090°	100.5°T	5.0	A2400+	
	020	TF	ARLIV	FAF LOC	-	180°	190.7°T	4.8	A1600+	
	030	TF	KK361	MAPt LOC	Y					
	040	CA	-	-	-	180°	190.9°T	-	A500+	
	050	DF	UNPOD	MAHF	Y	-	-	-	A2400	

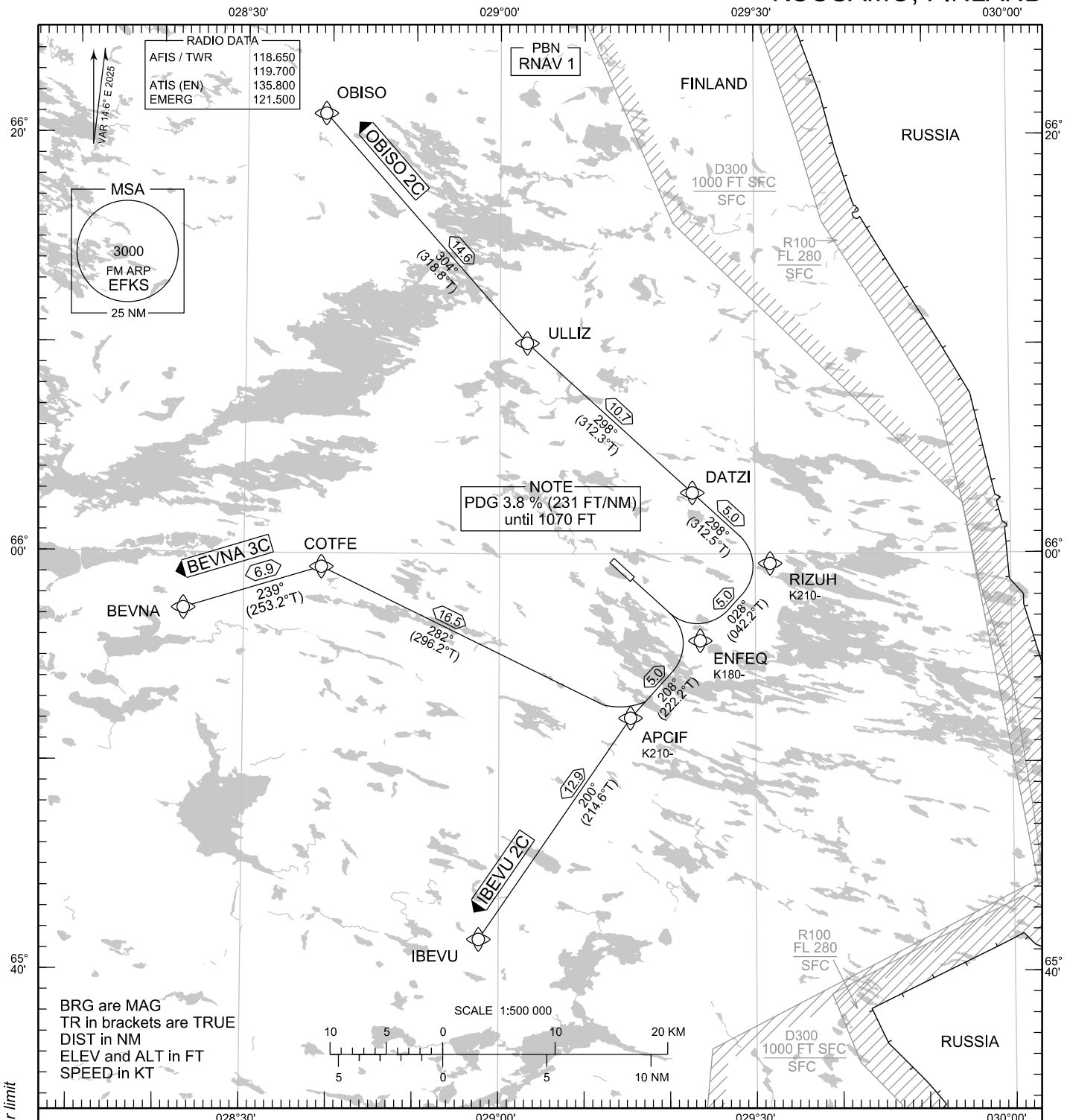
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
FEBCA	280.9°T	270°	Left	K230-	A2400	1 MIN	-
UNPOD	010.6°T	000°	Left	K230-	A2400	1 MIN	-

WPT COORD
SEE PAGE EFKK AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		RDH
	CAT	GPA	
5.24 % (3.00°)	I	3.00°	52 FT

TRANSITION ALT
5000

KUUSAMO, FINLAND



RNAV SID RWY 12

BEVNA 3C IBEVU 2C OBISO 2C

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING. PDG 3.8 % (231 FT/NM) UNTIL 1070 FT. CLOSE-IN OBSTACLES EXIST, SEE EFKS AD 2.10 - 5
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

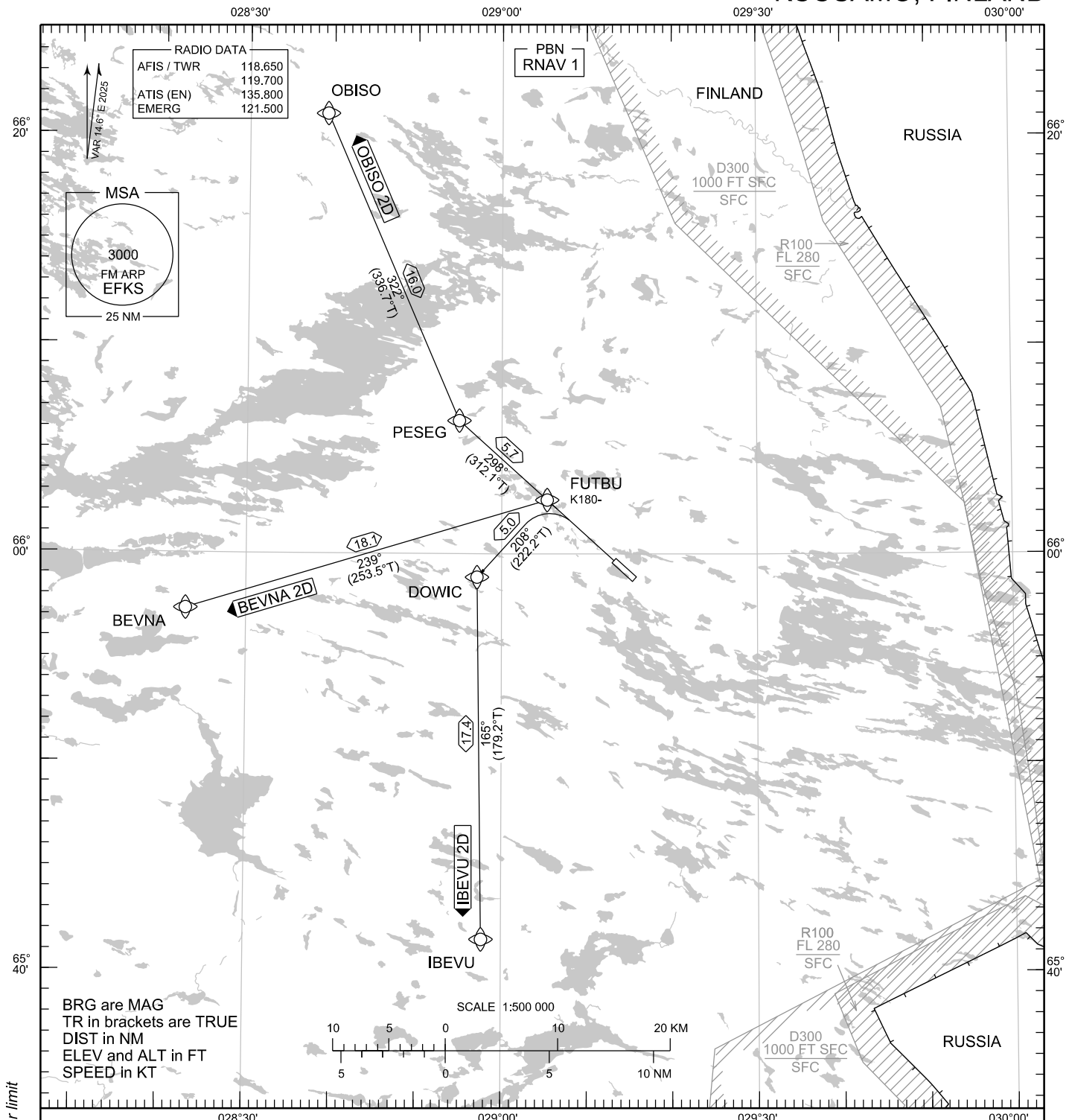
CHG: COR D300 upper limit

EFKS RNAV SID RWY 12										
RTE NAV SPEC	SEQ NR	P/T	WPT ID	WPT Flyover	MAG	GEO TR	DIST NM	Turn Direction	Constraints LVL	Constraints Speed
BEVNA 3C RNAV 1	010	CA	-	-	118°	132.6°T	-		A1360+	
	020	DF	ENFEQ	-	-	-	-			K180-
	030	TF	APCIF	-	208°	222.2°T	5.0	R		K210-
	040	TF	COTFE	-	282°	296.2°T	16.5	L		
	050	TF	BEVNA	-	239°	253.2°T	6.9			
IBEVU 2C RNAV 1	010	CA	-	-	118°	132.6°T	-		A1360+	
	020	DF	ENFEQ	-	-	-	-			K180-
	030	TF	APCIF	-	208°	222.2°T	5.0			K210-
	040	TF	IBEVU	-	200°	214.6°T	12.9			
OBISO 2C RNAV 1	010	CA	-	-	118°	132.6°T	-		A1360+	
	020	DF	ENFEQ	-	-	-	-			K180-
	030	TF	RIZUH	-	028°	042.2°T	5.0	L		K210-
	040	TF	DATZI	-	298°	312.5°T	5.0			
	050	TF	ULLIZ	-	298°	312.3°T	10.7			
	060	TF	OBISO	-	304°	318.8°T	14.6			

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

TRANSITION ALT
5000

KUUSAMO, FINLAND



RNAV SID RWY 30

BEVNA 2D IBEVU 2D OBISO 2D

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING. CLOSE-IN OBSTACLES EXIST, SEE EFKS AD 2.10 - 5
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

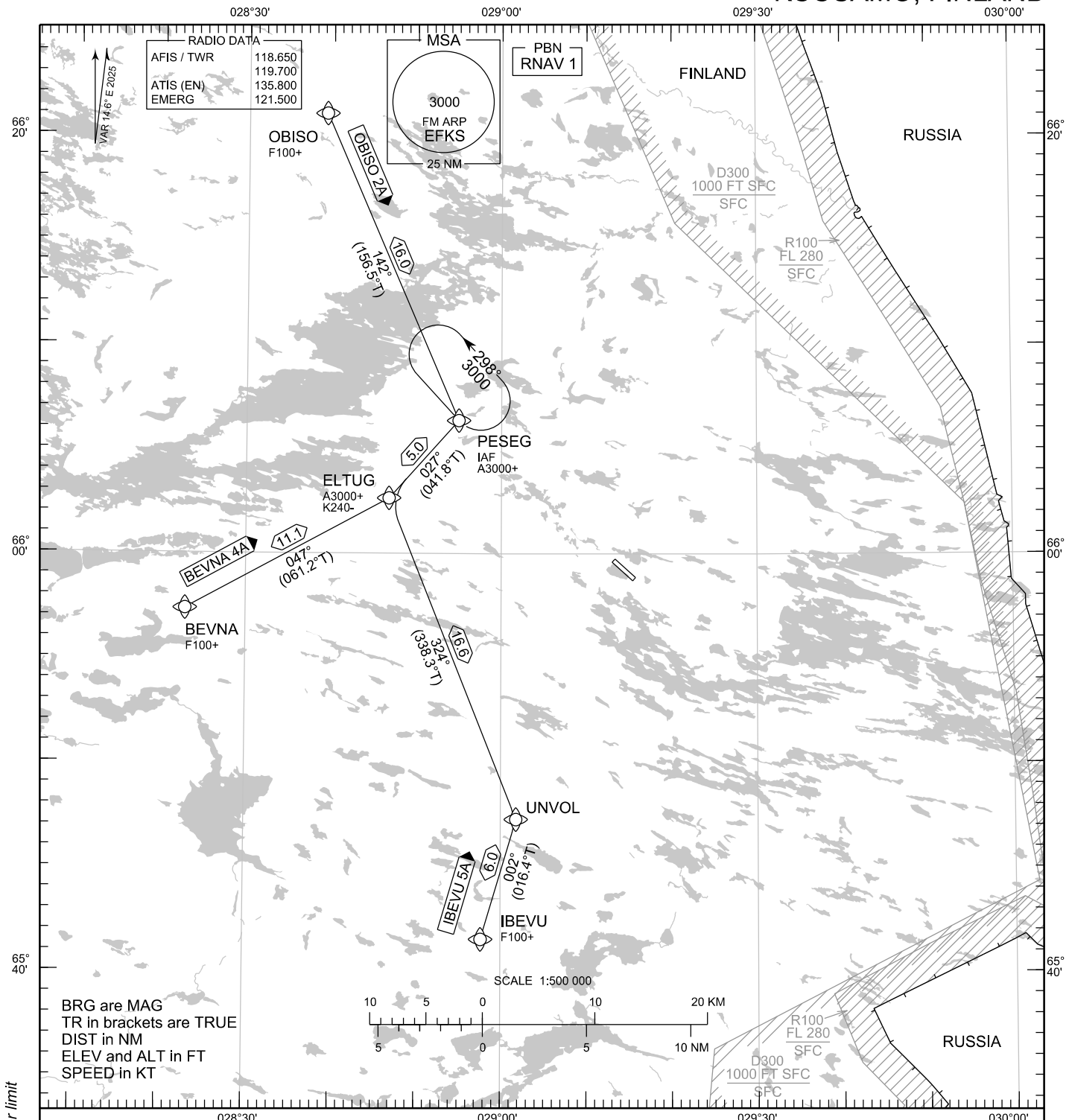
CHG: COR D300 upper limit

EFKS RNAV SID RWY 30										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Flyover					LVL	Speed
BEVNA 2D RNAV 1	010	CA	-	-	298°	312.6°T	-		A1350+	
	020	DF	FUTBU	-	-	-	-			K180-
	030	TF	BEVNA	-	239°	253.5°T	18.1			
IBEVU 2D RNAV 1	010	CA	-	-	298°	312.6°T	-		A1350+	
	020	DF	FUTBU	-	-	-	-			K180-
	030	TF	DOWIC	-	208°	222.2°T	5.0	L		
	040	TF	IBEVU	-	165°	179.2°T	17.4			
OBISO 2D RNAV 1	010	CA	-	-	298°	312.6°T	-		A1350+	
	020	DF	FUTBU	-	-	-	-			K180-
	030	TF	PESEG	-	298°	312.1°T	5.7			
	040	TF	OBISO	-	322°	336.7°T	16.0			

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

TRANSITION ALT
5000

KUUSAMO, FINLAND



RNAV STAR RWY 12

BEVNA 4A IBEVU 5A OBISO 2A

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND

AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: COR D300 upper limit

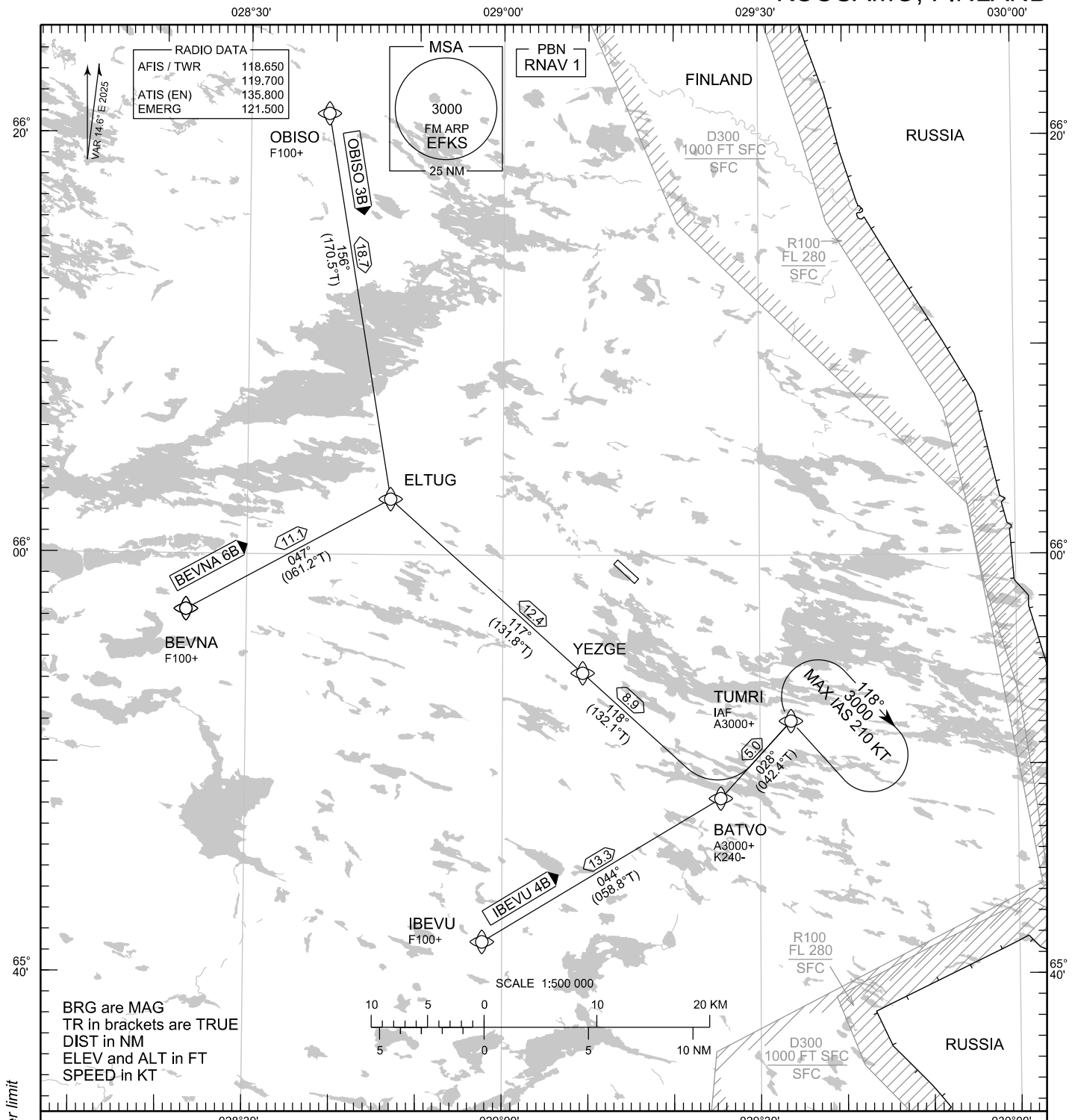
EFKS RNAV STAR RWY 12										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
BEVNA 4A RNAV 1	010	IF	BEVNA	-	-	-	-	F100+		
	020	TF	ELTUG	-	047°	061.2°T	11.1	A3000+		K240-
	030	TF	PESEG	-	027°	041.8°T	5.0	A3000+		
IBEVU 5A RNAV 1	010	IF	IBEVU	-	-	-	-	F100+		
	020	TF	UNVOL	-	002°	016.4°T	6.0			
	030	TF	ELTUG	-	324°	338.3°T	16.6	A3000+		K240-
	040	TF	PESEG	-	027°	041.8°T	5.0	A3000+		
OBISO 2A RNAV 1	010	IF	OBISO	-	-	-	-	F100+		
	020	TF	PESEG	-	142°	156.5°T	16.0	A3000+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
PESEG	132.2°T	118°	Left	K230-	A3000	1 MIN	-

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

TRANSITION ALT
5000

KUUSAMO, FINLAND



RNAV STAR RWY 30

BEVNA 6B IBEVU 4B OBISO 3B

DME/DME OPS:	NOT SUPPORTED	AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES		
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC		
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR		
RCF:	SELECT TRANSPONDER CODE 7600		

RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED:
FOLLOW THE STAR TO THE RESPECTIVE RWY AND
EXECUTE IAP AND LAND

CHG: COR D300 upper limit

EFKS RNAV STAR RWY 30										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
BEVNA 6B RNAV 1	010	IF	BEVNA	-	-	-	-	F100+		
	020	TF	ELTUG	-	047°	061.2°T	11.1			
	030	TF	YEZGE	-	117°	131.8°T	12.4			
	040	TF	BATVO	-	118°	132.1°T	8.9	A3000+		K240-
	050	TF	TUMRI	-	028°	042.4°T	5.0	A3000+		
IBEVU 4B RNAV 1	010	IF	IBEVU	-	-	-	-	F100+		
	020	TF	BATVO	-	044°	058.8°T	13.3	A3000+		K240-
	030	TF	TUMRI	-	028°	042.4°T	5.0	A3000+		
OBISO 3B RNAV 1	010	IF	OBISO	-	-	-	-	F100+		
	020	TF	ELTUG	-	156°	170.5°T	18.7			
	030	TF	YEZGE	-	117°	131.8°T	12.4			
	040	TF	BATVO	-	118°	132.1°T	8.9	A3000+		K240-
	050	TF	TUMRI	-	028°	042.4°T	5.0	A3000+		

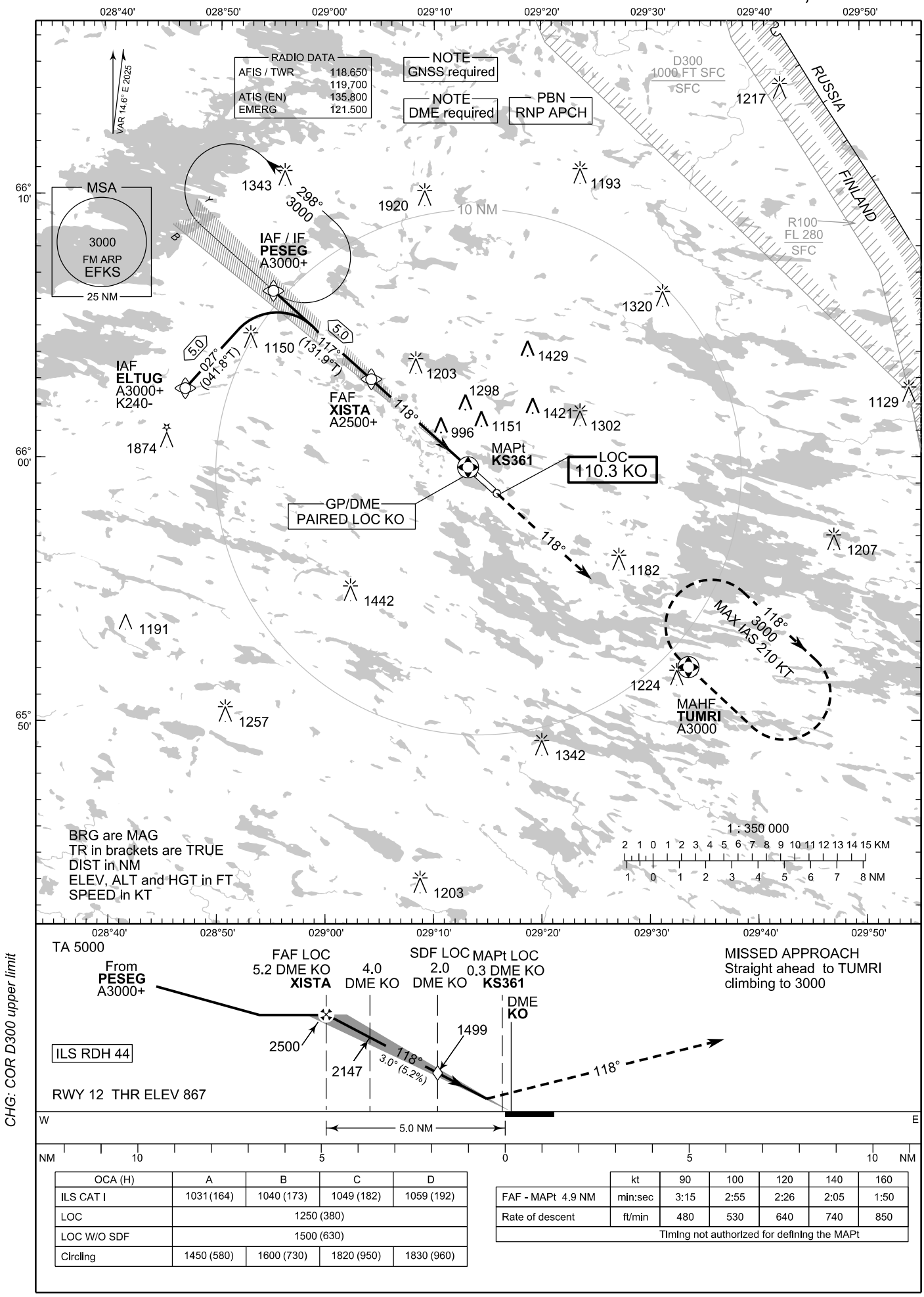
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
TUMRI	312.2°T	298°	Right	K210-	A3000	1 MIN	-

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

ELEV 868 FT
HEIGHTS RELATED TO
THR RWY 12 ELEV 867 FT

ILS or LOC RWY 12
KUUSAMO AERODROME

KUUSAMO, FINLAND



OCA (H)	A	B	C	D
ILS CAT I	1031 (164)	1040 (173)	1049 (182)	1059 (192)
LOC	1250 (380)			
LOC W/O SDF	1500 (630)			
Circling	1450 (580)	1600 (730)	1820 (950)	1830 (960)

	kt	90	100	120	140	160
FAF - MAPt 4.9 NM	min:sec	3:15	2:55	2:26	2:05	1:50
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: COR D300 upper limit

EFKS ILS or LOC RWY 12										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I12 PESEG RNP APCH	010	IF	PESEG	IAF/IF	-				A3000+	
						117°	131.9°T	5.0		
	020	TF	XISTA	FAF LOC	-				A2500+	
	030	TF	KS361	MAPt LOC	Y					
						118°	132.6°T	-		
	040	CA	-	-	-				A1300+	
						-	-	-		
	050	DF	TUMRI	MAHF	Y				A3000	

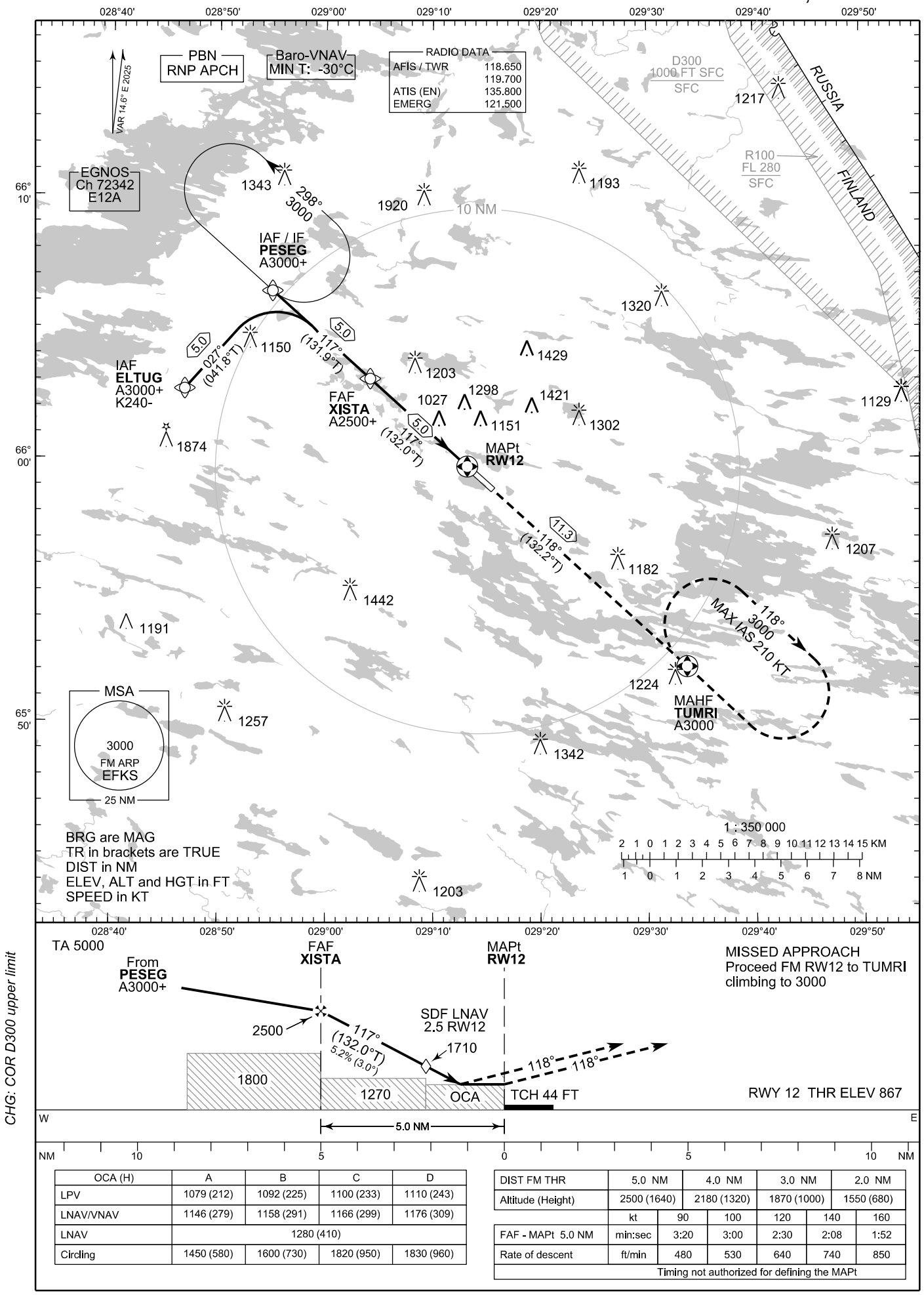
EFKS ILS or LOC RWY 12										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I12 ELTUG RNP APCH	005	IF	ELTUG	IAF	-				A3000+	K240-
						027°	041.8°T	5.0		
	010	TF	PESEG	IF	-				A3000+	
						117°	131.9°T	5.0		
	020	TF	XISTA	FAF LOC	-				A2500+	
	030	TF	KS361	MAPt LOC	Y					
						118°	132.6°T	-		
	040	CA	-	-	-				A1300+	
						-	-	-		
	050	DF	TUMRI	MAHF	Y				A3000	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
PESEG	132.2°T	118°	Left	K230-	A3000	1 MIN	-
TUMRI	312.2°T	298°	Right	K210-	A3000	1 MIN	-

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		RDH
	CAT	GPA	
5.24 % (3.00°)	I	3.00°	44 FT

KUUSAMO, FINLAND



OCA (H)	A	B	C	D
LPV	1079 (212)	1092 (225)	1100 (233)	1110 (243)
LNAV/VNAV	1146 (279)	1158 (291)	1166 (299)	1176 (309)
LNAV	1280 (410)			
Circling	1450 (580)	1600 (730)	1820 (950)	1830 (960)

DIST FM THR	5.0 NM	4.0 NM	3.0 NM	2.0 NM
Altitude (Height)	2500 (1640)	2180 (1320)	1870 (1000)	1550 (680)

	kt	90	100	120	140	160
FAF - MAPt 5.0 NM	min:sec	3:20	3:00	2:30	2:08	1:52
Rate of descent	ft/min	480	530	640	740	850

Timing not authorized for defining the MAPt

CHG: COR D300 upper limit

EFKS RNP RWY 12										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H12 PESEG RNP APCH	010	IF	PESEG	IAF/IF	-				A3000+	
						117°	131.9°T	5.0		
	020	TF	XISTA	FAF	-				A2500+	
						117°	132.0°T	5.0		
	030	TF	RW12	MAPt	Y					
						118°	132.2°T	11.3		
	040	TF	TUMRI	MAHF	Y				A3000	

EFKS RNP RWY 12										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H12 ELTUG RNP APCH	005	IF	ELTUG	IAF	-				A3000+	K240-
						027°	041.8°T	5.0		
	010	TF	PESEG	IF	-				A3000+	
						117°	131.9°T	5.0		
	020	TF	XISTA	FAF	-				A2500+	
						117°	132.0°T	5.0		
	030	TF	RW12	MAPt	Y					
						118°	132.2°T	11.3		
	040	TF	TUMRI	MAHF	Y				A3000	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
PESEG	132.2°T	118°	Left	K230-	A3000	1 MIN	-
TUMRI	312.2°T	298°	Right	K210-	A3000	1 MIN	-

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

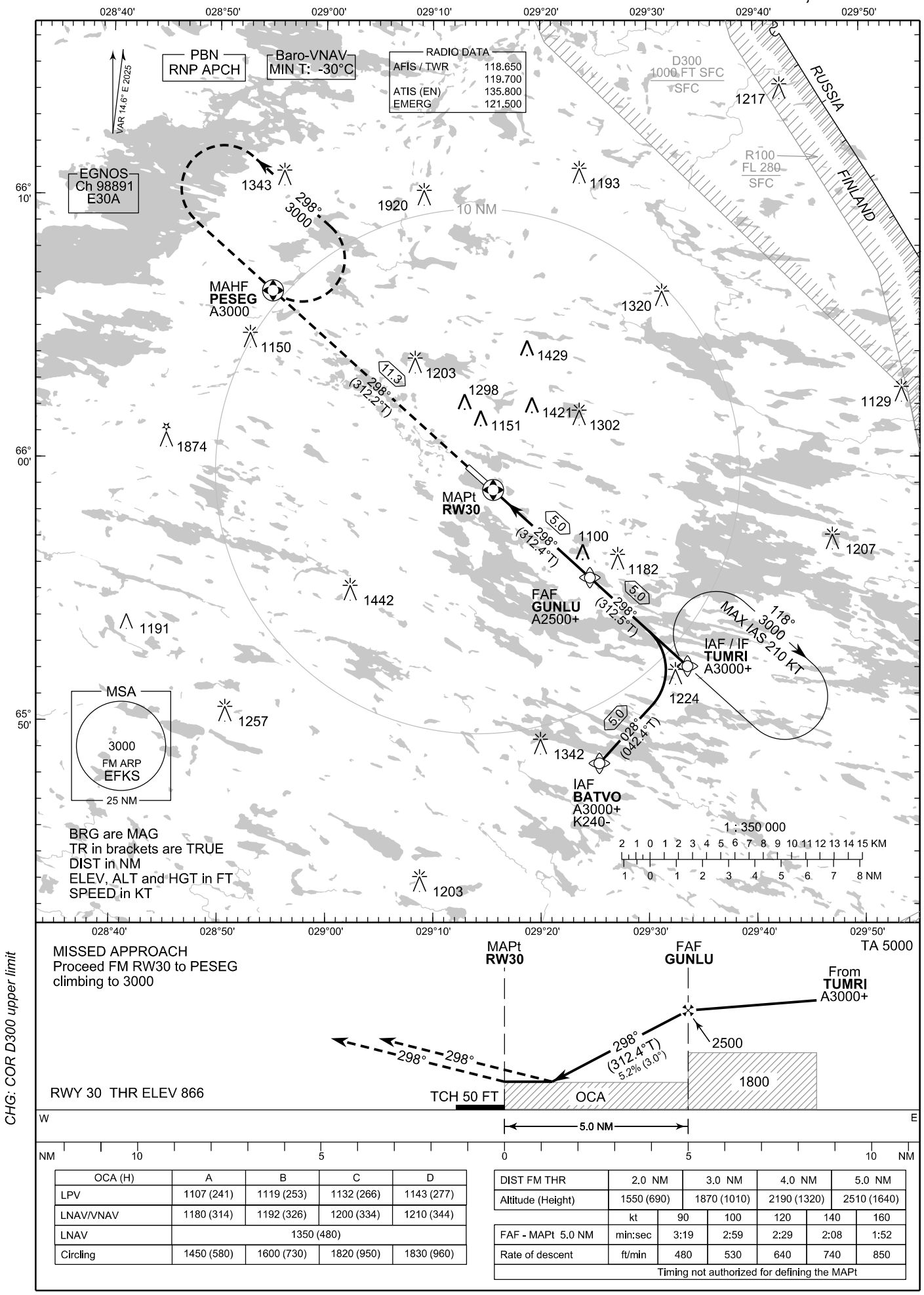
FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
5.24 % (3.00°)	3.00°	-30°C	44 FT

SBAS DATA	
Approach ID	E12A
Service Provider	EGNOS
CRC remainder	9E F2 69 FD
Channel number	72342
Data Block	SEE EFKS AD 2.15 - 3

ELEV 868 FT
HEIGHTS RELATED TO
THR RWY 30 ELEV 866 FT

RNP RWY 30
KUUSAMO AERODROME

KUUSAMO, FINLAND



TA 5000

OCA (H)	A	B	C	D
LPV	1107 (241)	1119 (253)	1132 (266)	1143 (277)
LNAV/VNAV	1180 (314)	1192 (326)	1200 (334)	1210 (344)
LNAV	1350 (480)			
Circling	1450 (580)	1600 (730)	1820 (950)	1830 (960)

DIST FM THR	2.0 NM	3.0 NM	4.0 NM	5.0 NM
Altitude (Height)	1550 (690)	1870 (1010)	2190 (1320)	2510 (1640)

	kt	90	100	120	140	160
FAF - MAPt 5.0 NM	min:sec	3:19	2:59	2:29	2:08	1:52
Rate of descent	ft/min	480	530	640	740	850

Timing not authorized for defining the MAPt

CHG: COR D300 upper limit

EFKS RNP RWY 30										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H30 BATVO RNP APCH	005	IF	BATVO	IAF	-				A3000+	K240-
	010	TF	TUMRI	IF	-	028°	042.4°T	5.0	A3000+	
	020	TF	GUNLU	FAF	-	298°	312.5°T	5.0	A2500+	
	030	TF	RW30	MAPt	Y	298°	312.4°T	5.0		
	040	TF	PESEG	MAHF	Y	298°	312.2°T	11.3	A3000	

EFKS RNP RWY 30										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H30 TUMRI RNP APCH	010	IF	TUMRI	IAF/IF	-				A3000+	
	020	TF	GUNLU	FAF	-	298°	312.5°T	5.0	A2500+	
	030	TF	RW30	MAPt	Y	298°	312.4°T	5.0		
	040	TF	PESEG	MAHF	Y	298°	312.2°T	11.3	A3000	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
TUMRI	312.2°T	298°	Right	K210-	A3000	1 MIN	-
PESEG	132.2°T	118°	Left	K230-	A3000	1 MIN	-

WPT COORD
SEE PAGE EFKS AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
5.24 % (3.00°)	3.00°	-30°C	50 FT

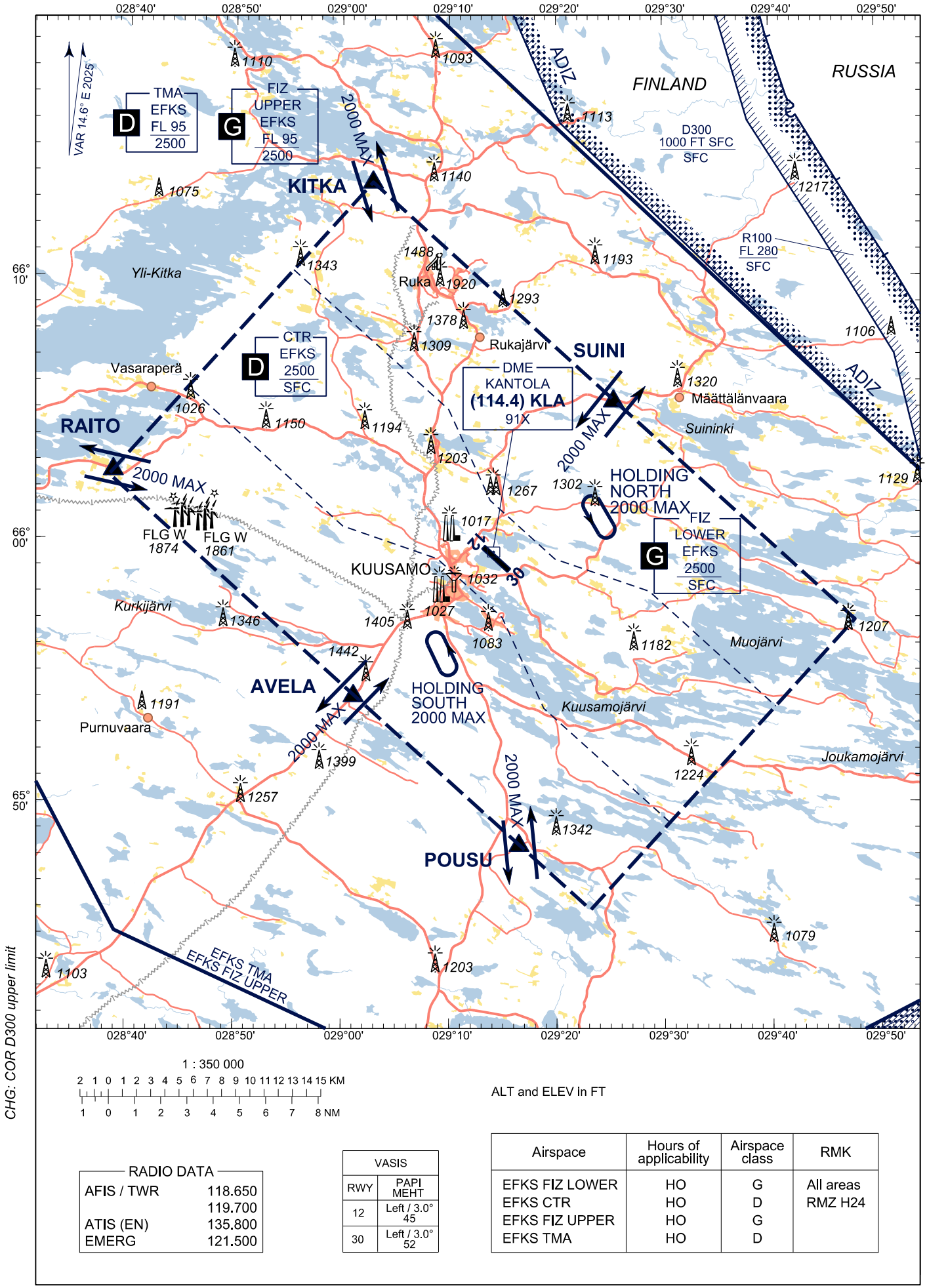
SBAS DATA	
Approach ID	E30A
Service Provider	EGNOS
CRC remainder	8A E5 DD EF
Channel number	98891
Data Block	SEE EFKS AD 2.15 - 3

KUUSAMO AERODROME

VISUAL
APPROACH CHART - ICAO

ELEV 868 FT

KUUSAMO, FINLAND



1 : 350 000

2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 KM

1 0 1 2 3 4 5 6 7 8 NM

ALT and ELEV in FT

CHG: COR D300 upper limit

RADIO DATA	
AFIS / TWR	118.650
	119.700
ATIS (EN)	135.800
EMERG	121.500

VASIS	
RWY	PAPI MEHT
12	Left / 3.0° 45
30	Left / 3.0° 52

Airspace	Hours of applicability	Airspace class	RMK
EFKS FIZ LOWER	HO	G	All areas
EFKS CTR	HO	D	RMZ H24
EFKS FIZ UPPER	HO	G	
EFKS TMA	HO	D	

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1 ENSISIJAINEN KIITOTIE

Laskut:
1. RWY 06
Lentoonlähdöt:
1. RWY 24

Ensisijaista kiitotietä käytetään aina silloin kun se on mahdollista lentoturvallisuutta vaarantamatta.

1 PREFERENTIAL RUNWAY SYSTEM

Landings:
1. RWY 06
Departures:
1. RWY 24

The preferential runway is used whenever possible without risk for flight safety.

2 YLEISILMAILU

Laskukierrosharjoittelu, purjelentokoneiden hinaustoiminta sekä laskuvarjohyppytoiminta on kielletty 2000-0500 UTC (1900-0400 UTC) välisenä aikana lukuunottamatta lentoasemalle ennalta ilmoitettuja koulutuslentoja.

2 GENERAL AVIATION

Touch-and-go landings, towing or gliders and parachute jumping flights are not allowed during 2000-0500 UTC (1900-0400 UTC) except those training flights notified to the airport in advance and which are part of the training program.

EFLP AD 2.22 LENTOMENETELMÄT
EFLP AD 2.22 FLIGHT PROCEDURES

Huom. Yleiset lähtö-, lähestymis- ja odotusmenetelmät on esitetty osassa ENR 1.5.

Note: The general departure, arrival and holding procedures are described in section ENR 1.5.

EFLP AD 2.23 LISÄTIETOJA
EFLP AD 2.23 ADDITIONAL INFORMATION

1 HYVÄKSYNTÄTODISTUKSESSA MYÖNNETYT POIKKEAMAT

1 ACCEPTED DEVIATIONS IN AERODROME CERTIFICATE

EU-ilmailumääräys ***Aerodrome rules***	***Otsikko***	***Title***	***Poikkeaman kuvaus***	***Description of the deviation***
CS ADR-DSN.J.475	Ei-tarkkuuslähestymiskiitotiet	Non-precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces
CS ADR-DSN.J.480	Tarkkuuslähestymiskiitotiet	Precision approach runways	Esterajoituspintojen ylittäviä esteitä	Obstacles exceeding obstacle limitation surfaces

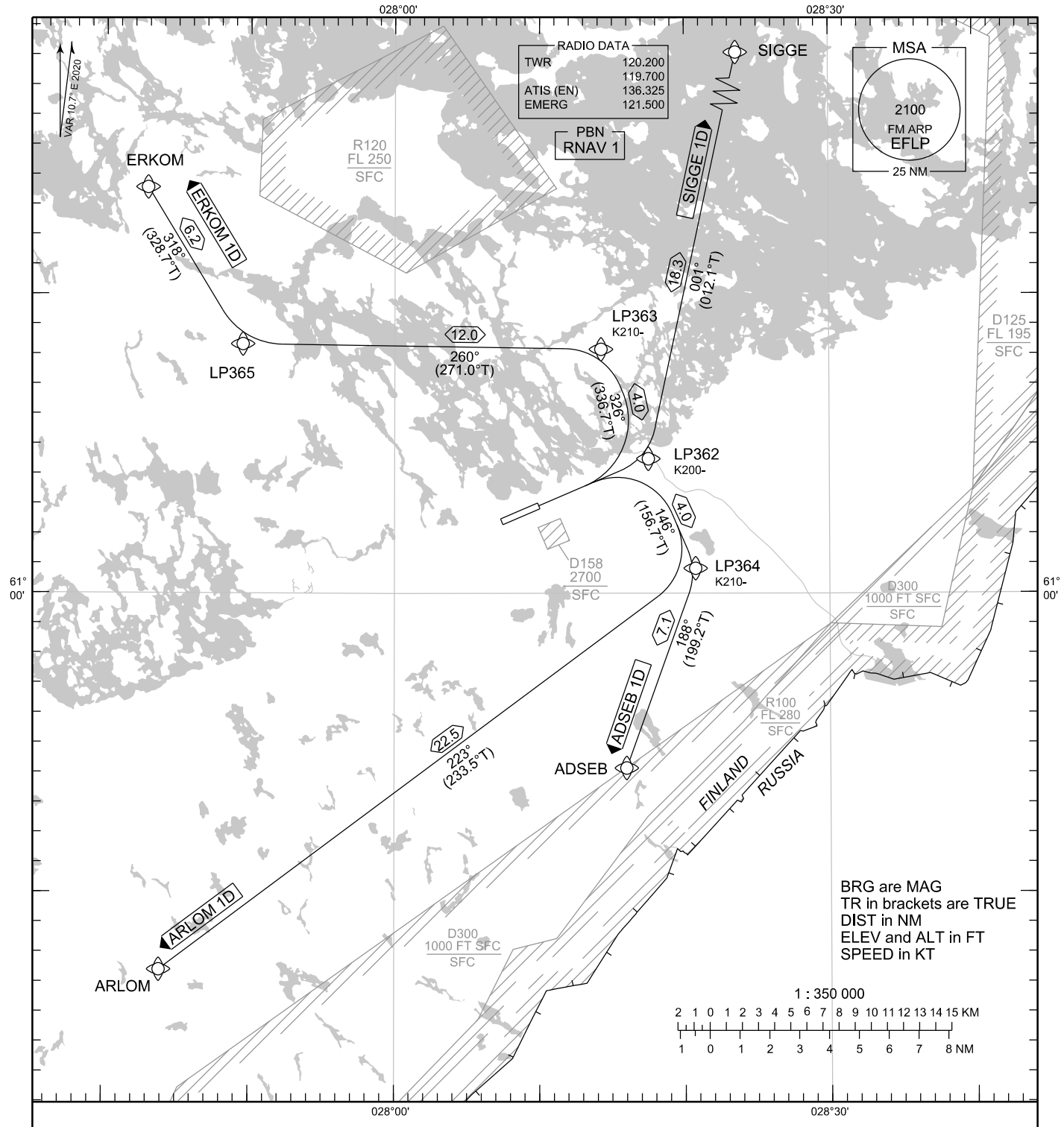
EFLP AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFLP AD 2.24 CHARTS RELATED TO THE AERODROME

EFLP AD 2.25 VSS LÄPÄISYT
EFLP AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

Ei läpäisyjä

No penetrations

LAPPEENRANTA, FINLAND



RNAV SID RWY 06

ADSEB 1D ARLOM 1D ERKOM 1D SIGGE 1D

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING. CLOSE-IN OBSTACLES EXIST, SEE EFLP AD 2.10 - 5
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

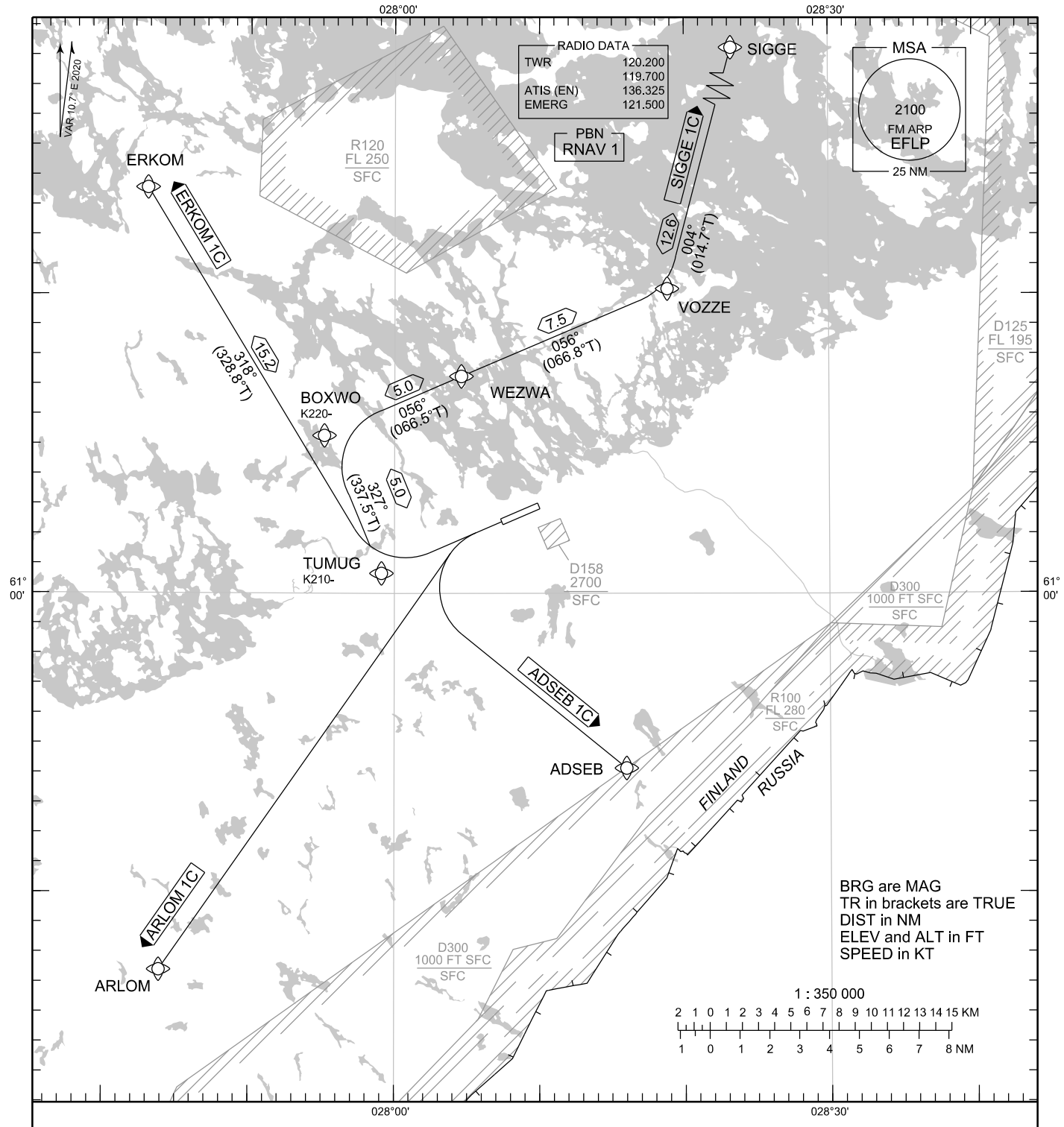
CHG: editorial

EFLP RNAV SID RWY 06										
RTE NAV SPEC	SEQ NR	P/T	WPT ID	WPT Flyover	MAG	GEO TR	DIST NM	Turn Direction	Constraints LVL	Constraints Speed
ADSEB 1D RNAV 1	010	CA	-	-	056°	066.7°T	-		A970+	
	020	DF	LP362	-	-	-	-			K200-
	030	TF	LP364	-	146°	156.7°T	4.0	R		K210-
	040	TF	ADSEB	-	188°	199.2°T	7.1			
ARLOM 1D RNAV 1	010	CA	-	-	056°	066.7°T	-		A970+	
	020	DF	LP362	-	-	-	-			K200-
	030	TF	LP364	-	146°	156.7°T	4.0	R		K210-
	040	TF	ARLOM	-	223°	233.5°T	22.5			
ERKOM 1D RNAV 1	010	CA	-	-	056°	066.7°T	-		A970+	
	020	DF	LP362	-	-	-	-			K200-
	030	TF	LP363	-	326°	336.7°T	4.0	L		K210-
	040	TF	LP365	-	260°	271.0°T	12.0	R		
	050	TF	ERKOM	-	318°	328.7°T	6.2			
SIGGE 1D RNAV 1	010	CA	-	-	056°	066.7°T	-		A970+	
	020	DF	LP362	-	-	-	-			K200-
	030	TF	SIGGE	-	001°	012.1°T	18.3			

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

TRANSITION ALT
5000

LAPPEENRANTA, FINLAND



RNAV SID RWY 24

ADSEB 1C ARLOM 1C ERKOM 1C SIGGE 1C

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART
SQUAWK:	WHEN LINING UP SQUAWK THE ASSIGNED CODE
INITIAL CLIMB:	MNM TURNING ALTITUDE ACCORDING TO RTE CODING.
NOISE ABATEMENT:	AFTER TAKE-OFF CLIMB AS RAPIDLY AS PRACTICABLE TO AT LEAST 2000 FT ABOVE AD ELEV PUBLISHED SID ROUTES ARE ALSO MINIMUM NOISE ROUTINGS
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

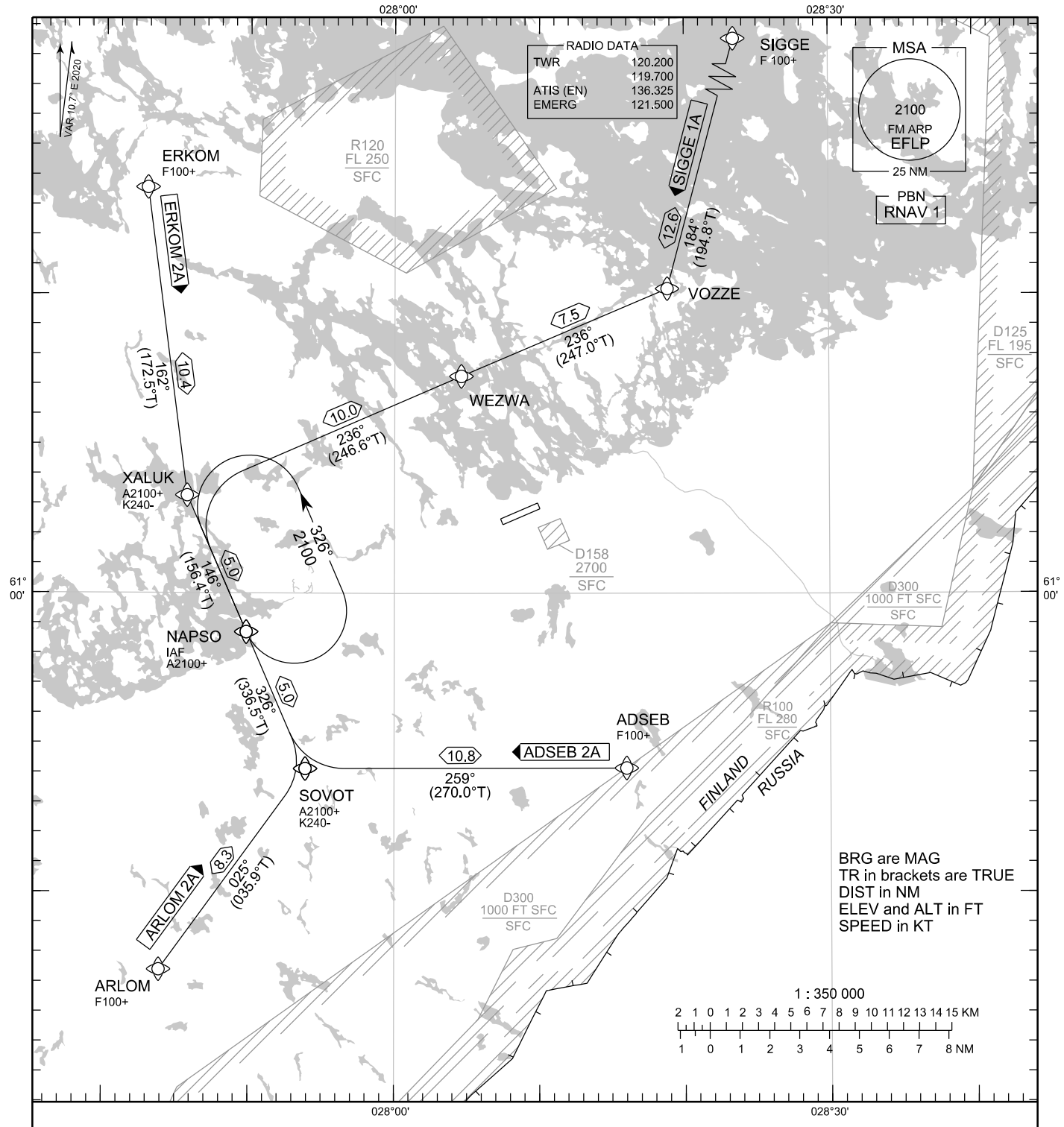
CHG: editorial

EFLP RNAV SID RWY 24										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Flyover					LVL	Speed
ADSEB 1C RNAV 1	010	CA	-	-	236°	246.7°T	-		A750+	
	020	DF	ADSEB	-	-	-	-			
ARLOM 1C RNAV 1	010	CA	-	-	236°	246.7°T	-		A750+	
	020	DF	ARLOM	-	-	-	-			
ERKOM 1C RNAV 1	010	CA	-	-	236°	246.7°T	-		A750+	
	020	DF	TUMUG	-	-	-	-			K210-
	030	TF	ERKOM	-	318°	328.8°T	15.2			
SIGGE 1C RNAV 1	010	CA	-	-	236°	246.7°T	-		A750+	
	020	DF	TUMUG	-	-	-	-			K210-
	030	TF	BOXWO	-	327°	337.5°T	5.0	R		K220-
	040	TF	WEZWA	-	056°	066.5°T	5.0			
	050	TF	VOZZE	-	056°	066.8°T	7.5	L		
	060	TF	SIGGE	-	004°	014.7°T	12.6			

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

TRANSITION ALT
5000

LAPPEENRANTA, FINLAND



RNAV STAR RWY 06

ADSEB 2A ARLOM 2A ERKOM 2A SIGGE 1A

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

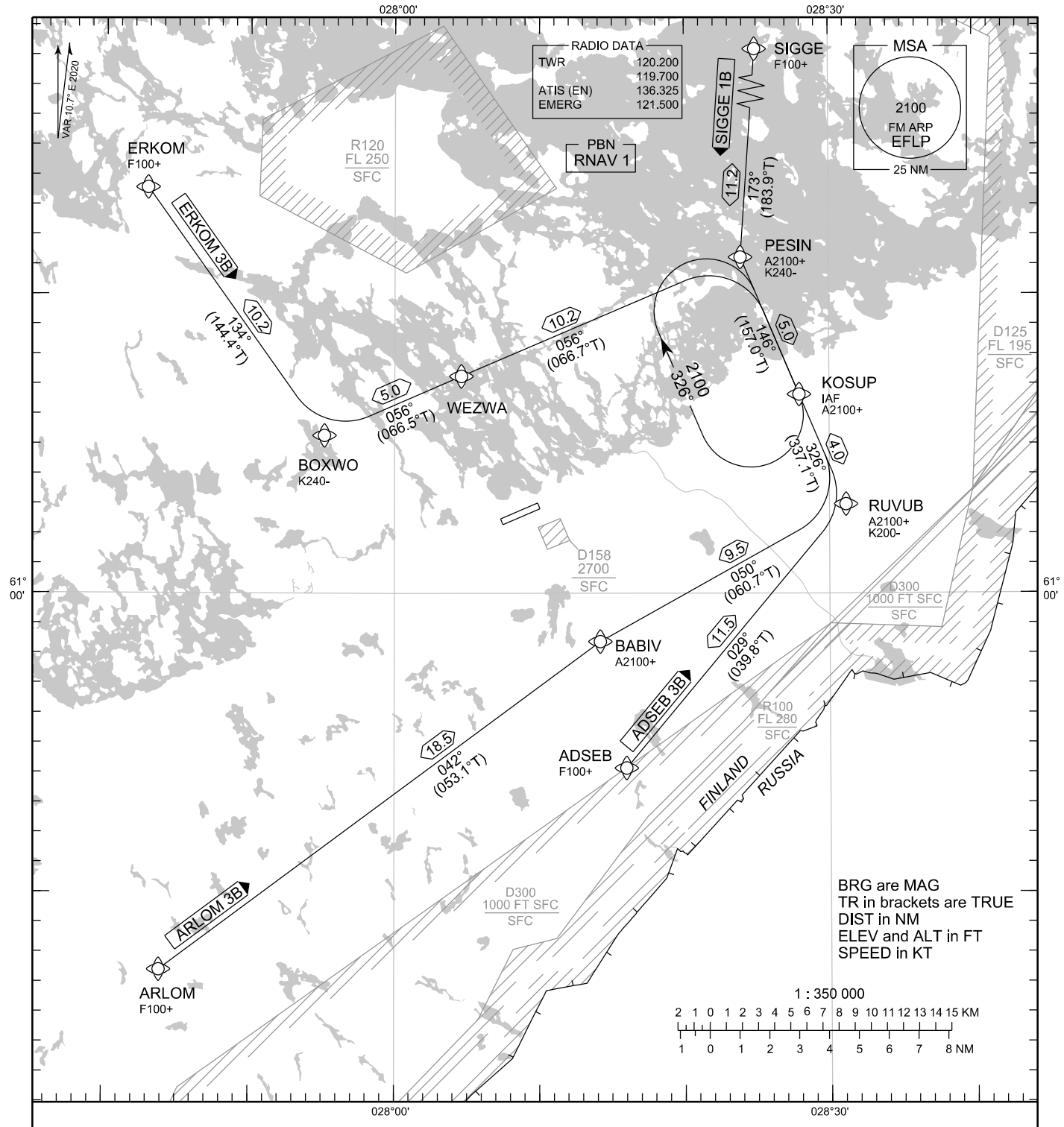
CHG: editorial

EFLP RNAV STAR RWY 06										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ADSEB 2A RNAV 1	010	IF	ADSEB	-	-	-	-	F100+		
	020	TF	SOVOT	-	259°	270.0°T	10.8	A2100+		K240-
	030	TF	NAPSO	-	326°	336.5°T	5.0	A2100+		
ARLOM 2A RNAV 1	010	IF	ARLOM	-	-	-	-	F100+		
	020	TF	SOVOT	-	025°	035.9°T	8.3	A2100+		K240-
	030	TF	NAPSO	-	326°	336.5°T	5.0	A2100+		
ERKOM 2A RNAV 1	010	IF	ERKOM	-	-	-	-	F100+		
	020	TF	XALUK	-	162°	172.5°T	10.4	A2100+		K240-
	030	TF	NAPSO	-	146°	156.4°T	5.0	A2100+		
SIGGE 1A RNAV 1	010	IF	SIGGE	-	-	-	-	F100+		
	020	TF	VOZZE	-	184°	194.8°T	12.6			
	030	TF	WEZWA	-	236°	247.0°T	7.5			
	040	TF	XALUK	-	236°	246.6°T	10.0	A2100+		K240-
	050	TF	NAPSO	-	146°	156.4°T	5.0	A2100+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
NAPSO	156.4°T	146°	Left	K230-	A2100	1 MIN	-

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

LAPPEENRANTA, FINLAND



RNAV STAR RWY 24

ADSEB 3B ARLOM 3B ERKOM 3B SIGGE 1B

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND
AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: editorial

EFLP RNAV STAR RWY 24										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ADSEB 3B RNAV 1	010	IF	ADSEB	-	-	-	-	F100+		
	020	TF	RUVUB	-	029°	039.8°T	11.5	A2100+		K200-
	030	TF	KOSUP	-	326°	337.1°T	4.0	A2100+		
ARLOM 3B RNAV 1	010	IF	ARLOM	-	-	-	-	F100+		
	020	TF	BABIV	-	042°	053.1°T	18.5	A2100+		
	030	TF	RUVUB	-	050°	060.7°T	9.5	A2100+		K200-
	040	TF	KOSUP	-	326°	337.1°T	4.0	A2100+		
ERKOM 3B RNAV 1	010	IF	ERKOM	-	-	-	-	F100+		
	020	TF	BOXWO	-	134°	144.4°T	10.2			K240-
	030	TF	WEZWA	-	056°	066.5°T	5.0			
	040	TF	PESIN	-	056°	066.7°T	10.2	A2100+		K240-
	050	TF	KOSUP	-	146°	157.0°T	5.0	A2100+		
SIGGE 1B RNAV 1	010	IF	SIGGE	-	-	-	-	F100+		
	020	TF	PESIN	-	173°	183.9°T	11.2	A2100+		K240-
	030	TF	KOSUP	-	146°	157.0°T	5.0	A2100+		

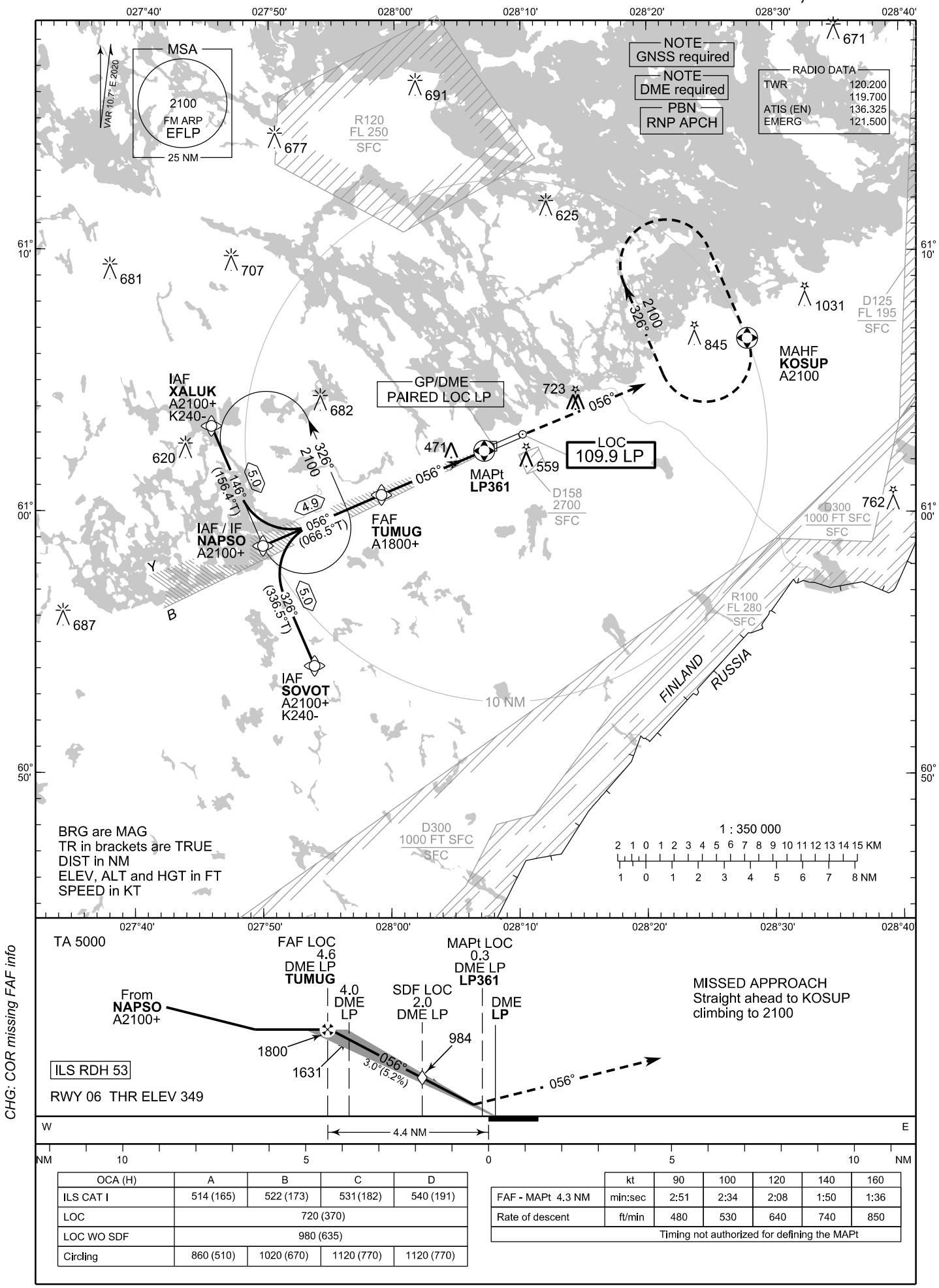
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
KOSUP	157.0°T	146°	Right	K230-	A2100	1 MIN	-

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

ELEV 349 FT
HEIGHTS RELATED TO
THR RWY 06 ELEV 349 FT

ILS or LOC RWY 06
LAPPEENRANTA AERODROME

LAPPEENRANTA, FINLAND



OCA (H)	A	B	C	D
ILS CAT I	514 (165)	522 (173)	531 (182)	540 (191)
LOC	720 (370)			
LOC WO SDF	980 (635)			
Circling	860 (510)	1020 (670)	1120 (770)	1120 (770)

	kt	90	100	120	140	160
FAF - MAPt 4.3 NM	min:sec	2:51	2:34	2:08	1:50	1:36
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: COR missing FAF info

EFLP ILS or LOC RWY 06										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I06 XALUK RNP APCH	005	IF	XALUK	IAF	-				A2100+	K240-
						146°	156.4°T	5.0		
	010	TF	NAPSO	IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF LOC	-				A1800+	
	030	TF	LP361	MAPt LOC	Y					
						056°	066.7°T	-		
	040	CA	-	-	-				A800+	
						-	-	-		
	050	DF	KOSUP	MAHF	Y				A2100	

EFLP ILS or LOC RWY 06										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I06 NAPSO RNP APCH	010	IF	NAPSO	IAF/IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF LOC	-				A1800+	
	030	TF	LP361	MAPt LOC	Y					
						056°	066.7°T	-		
	040	CA	-	-	-				A800+	
						-	-	-		
	050	DF	KOSUP	MAHF	Y				A2100	

EFLP ILS or LOC RWY 06										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
I06 SOVOT RNP APCH	005	IF	SOVOT	IAF	-				A2100+	K240-
						326°	336.5°T	5.0		
	010	TF	NAPSO	IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF LOC	-				A1800+	
	030	TF	LP361	MAPt LOC	Y					
						056°	066.7°T	-		
	040	CA	-	-	-				A800+	
						-	-	-		
	050	DF	KOSUP	MAHF	Y				A2100	

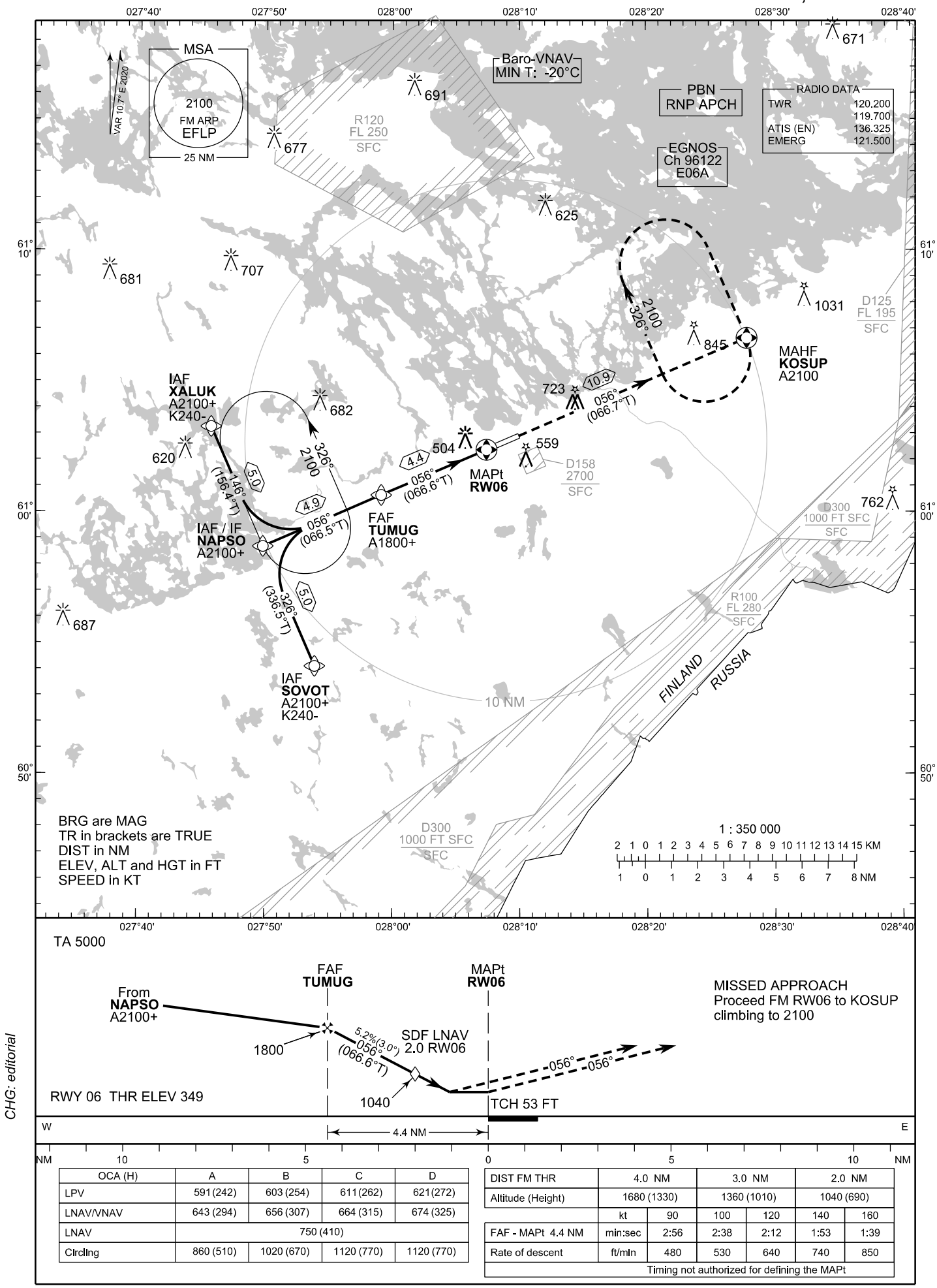
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
NAPSO	156.4°T	146°	Left	K230-	A2100	1 MIN	-
KOSUP	157.0°T	146°	Right	K230-	A2100	1 MIN	-

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		RDH
	CAT	GPA	
5.24 % (3.00°)	I	3.00°	53 FT

ELEV 349 FT
HEIGHTS RELATED TO
THR RWY 06 ELEV 349 FT

LAPPEENRANTA, FINLAND



OCA (H)	A	B	C	D
LPV	591 (242)	603 (254)	611 (262)	621 (272)
LNAV/VNAV	643 (294)	656 (307)	664 (315)	674 (325)
LNAV	750 (410)			
Circling	860 (510)	1020 (670)	1120 (770)	1120 (770)

DIST FM THR	4.0 NM		3.0 NM		2.0 NM	
Altitude (Height)	1680 (1330)		1360 (1010)		1040 (690)	
	kt	90	100	120	140	160
FAF - MAPt 4.4 NM	min:sec	2:56	2:38	2:12	1:53	1:39
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

CHG: editorial

EFLP RNP RWY 06										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H06 XALUK RNP APCH	005	IF	XALUK	IAF	-				A2100+	K240-
						146°	156.4°T	5.0		
	010	TF	NAPSO	IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF	-				A1800+	
						056°	066.6°T	4.4		
	030	TF	RW06	MAPt	Y					
						056°	066.7°T	10.9		
	040	TF	KOSUP	MAHF	Y				A2100	

EFLP RNP RWY 06										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H06 NAPSO RNP APCH	010	IF	NAPSO	IAF/IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF	-				A1800+	
						056°	066.6°T	4.4		
	030	TF	RW06	MAPt	Y					
						056°	066.7°T	10.9		
	040	TF	KOSUP	MAHF	Y				A2100	

EFLP RNP RWY 06										
PROC ID / NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H06 SOVOT RNP APCH	005	IF	SOVOT	IAF	-				A2100+	K240-
						326°	336.5°T	5.0		
	010	TF	NAPSO	IF	-				A2100+	
						056°	066.5°T	4.9		
	020	TF	TUMUG	FAF	-				A1800+	
						056°	066.6°T	4.4		
	030	TF	RW06	MAPt	Y					
						056°	066.7°T	10.9		
	040	TF	KOSUP	MAHF	Y				A2100	

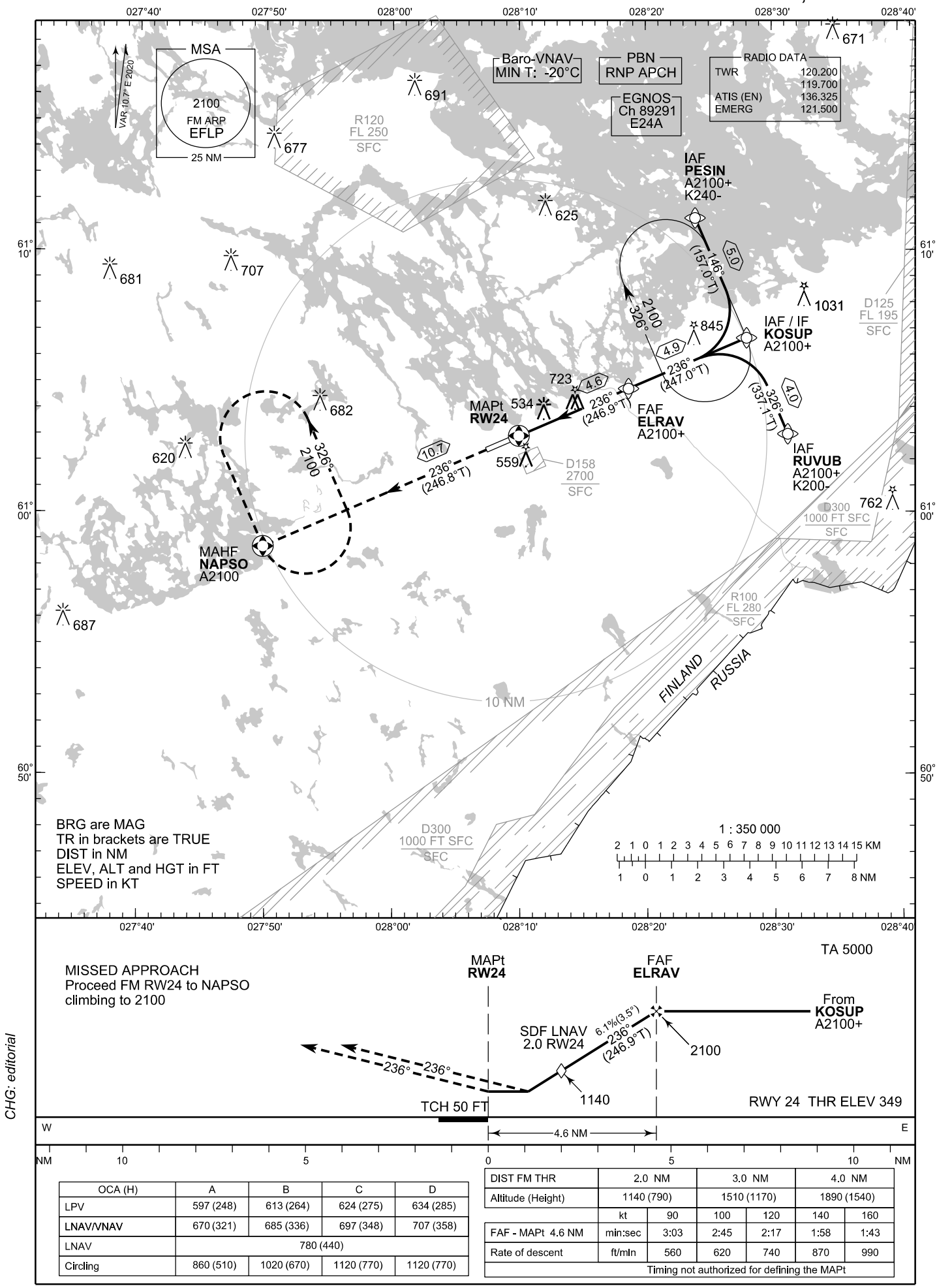
RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
NAPSO	156.4°T	146°	Left	K230-	A2100	1 MIN	-
KOSUP	157.0°T	146°	Right	K230-	A2100	1 MIN	-

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
5.24 % (3.00°)	3.00°	-20°C	53 FT

SBAS DATA	
Approach ID	E06A
Service Provider	EGNOS
CRC remainder	96 F2 3D 2E
Channel number	96122
Data Block	SEE EFLP AD 2.15 - 3

LAPPEENRANTA, FINLAND



OCA (H)	A	B	C	D
LPV	597 (248)	613 (264)	624 (275)	634 (285)
LNAV/VNAV	670 (321)	685 (336)	697 (348)	707 (358)
LNAV	780 (440)			
Circling	860 (510)	1020 (670)	1120 (770)	1120 (770)

DIST FM THR	2.0 NM		3.0 NM		4.0 NM	
Altitude (Height)	1140 (790)		1510 (1170)		1890 (1540)	
	kt	90	100	120	140	160
FAF - MAPt 4.6 NM	min:sec	3:03	2:45	2:17	1:58	1:43
Rate of descent	ft/min	560	620	740	870	990
Timing not authorized for defining the MAPt						

CHG: editorial

EFLP RNP RWY 24										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H24 RUVUB RNP APCH	005	IF	RUVUB	IAF	-				A2100+	K200-
	010	TF	KOSUP	IF	-	326°	337.1°T	4.0	A2100+	
	020	TF	ELRAV	FAF	-	236°	247.0°T	4.9	A2100+	
	030	TF	RW24	MAPt	Y	236°	246.9°T	4.6		
	040	TF	NAPSO	MAHF	Y	236°	246.8°T	10.7	A2100	

EFLP RNP RWY 24										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H24 KOSUP RNP APCH	010	IF	KOSUP	IAF/IF	-				A2100+	
	020	TF	ELRAV	FAF	-	236°	247.0°T	4.9	A2100+	
	030	TF	RW24	MAPt	Y	236°	246.9°T	4.6		
	040	TF	NAPSO	MAHF	Y	236°	246.8°T	10.7	A2100	

EFLP RNP RWY 24										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG	GEO TR	DIST NM	Constraints	
			ID	Type	Flyover				LVL	Speed
H24 PESIN RNP APCH	005	IF	PESIN	IAF	-				A2100+	K240-
	010	TF	KOSUP	IF	-	146°	157.0°T	5.0	A2100+	
	020	TF	ELRAV	FAF	-	236°	247.0°T	4.9	A2100+	
	030	TF	RW24	MAPt	Y	236°	246.9°T	4.6		
	040	TF	NAPSO	MAHF	Y	236°	246.8°T	10.7	A2100	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
KOSUP	157.0°T	146°	Right	K230-	A2100	1 MIN	-
NAPSO	156.4°T	146°	Left	K230-	A2100	1 MIN	-

WPT COORD
SEE PAGE EFLP AD 2.15 - 1

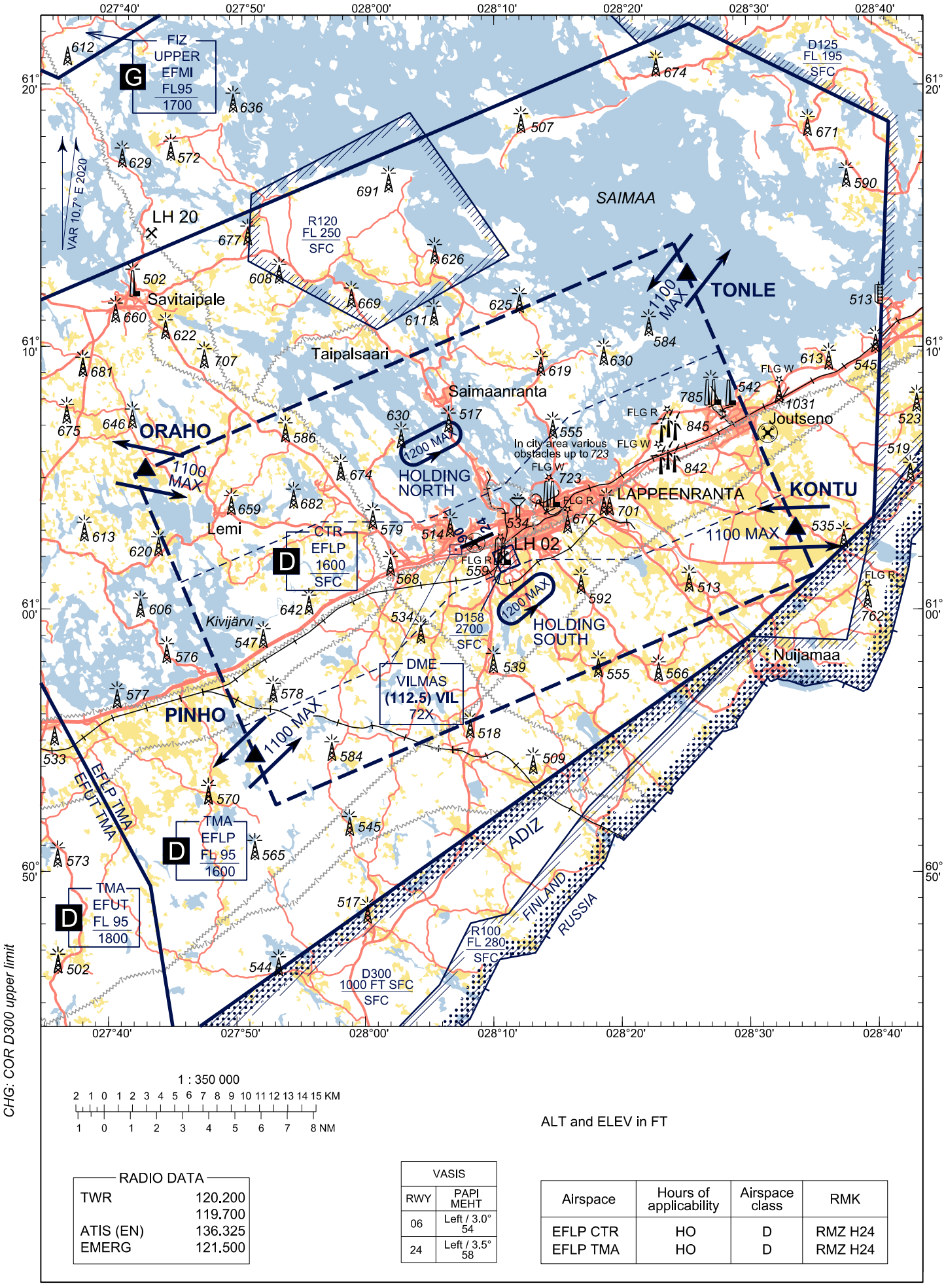
FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
6.12 % (3.50°)	3.50°	-20°C	50 FT

SBAS DATA	
Approach ID	E24A
Service Provider	EGNOS
CRC remainder	E9 19 A0 5C
Channel number	89291
Data Block	SEE EFLP AD 2.15 - 3

VISUAL
APPROACH CHART - ICAO

ELEV 349 FT

LAPPEENRANTA, FINLAND



CHG: COR D300 upper limit

ALT and ELEV in FT

RADIO DATA	
TWR	120.200
	119.700
ATIS (EN)	136.325
EMERG	121.500

VASIS	
RWY	PAPI MEHT
06	Left / 3.0° 54
24	Left / 3.5° 58

Airspace	Hours of applicability	Airspace class	RMK
EFLP CTR	HO	D	RMZ H24
EFLP TMA	HO	D	RMZ H24

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		Reunavalot / Edge LGT: U Reunavalot / Edge LGT: V
4	*Varavoima-asema* *Vaihtoaika*	AVBL 13 SEC / 1 SEC (CAT II)
	Secondary power supply / switch-over time	
5	*RMK*	NIL

EFOU AD 2.16 HELIKOPTERIEN LASKUALUE
EFOU AD 2.16 HELICOPTER LANDING AREA

FATO ID	*FATO THR COORD*	*FATO ELEV FT*	*FATO DMN M SFC MTOM Markings*	*True BRG of FATO*	*Declared distance AVBL*	*APP and FATO LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

TLOF ID	*TLOF COORD*	*TLOF ELEV FT*	*TLOF DMN M SFC MTOM Markings*	*True BRG of TLOF*	*Declared distance AVBL*	*APP and TLOF LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFOU AD 2.17 ATS-ILMATILA
EFOU AD 2.17 ATS AIRSPACE

Designation and lateral limits	*Vertical limits*	*Airspace classification*	*ATS unit call sign Language(s)*	*Transition altitude*	*Hours of applicability*	*RMK*
1	2	3	4	5	6	7
EFOU CTR Area bounded by lines joining points 650810N 0250649E - 650001N 0253854E - 644952N 0254449E - 644324N 0253536E - 645519N 0244846E to point of origin.	1700 FT MSL SFC	D	OULUN TORNI OULU TOWER FI, EN	5000 FT MSL	NOTAM	RMZ H24

EFOU AD 2.18 ATS-VIESTILAITTEET
EFOU AD 2.18 ATS COMMUNICATION FACILITIES

SER	*Call Sign*	*FREQ*	*HR UTC*	*SATVOICE*	*Logon address*	*RMK*
1	2	3	4	5	6	7
APP	OULUN TUTKA OULU RADAR	118.150 MHZ 119.700 MHZ 121.500 MHZ	HO	NIL	NIL	NIL
TWR	OULUN TORNI OULU TOWER	124.400 MHZ 119.700 MHZ 121.500 MHZ	NOTAM	NIL	NIL	NIL

SER	*Call Sign*	*FREQ*	*HR UTC*	*SATVOICE*	*Logon address*	*RMK*
1	2	3	4	5	6	7
ATIS	-	135.450 MHZ	H24	NIL	NIL	EN D-ATIS REF AIP, GEN 3.4, kohta 3.3.4. EN D-ATIS REF AIP, GEN 3.4, para 3.3.4 .

Huom. ATS-elimen toiminta-aikojen ulkopuolella ATIS-lähetettä ei valvota, joten se voi olla virheellinen.

Note: Outside the operational hours of ATS the ATIS broadcast is not monitored and may therefore be invalid.

EFOU AD 2.19 RADIOSUUNNISTUS- JA LASKEUTUMISLAITTEET
EFOU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid MAG VAR CAT of ILS / MLS DECL	*ID*	*FREQ CH*	*HR UTC*	*PSN*	*DME ELEV FT*	*Service volume radius*	*RMK*
1	2	3	4	5	6	7	8
LOC 12 ILS CAT II (11° E 2020)	OU	109.500 MHZ	H24	645522.07N 0252258.94E	NIL	NIL	Facility Performance II/T/2
GP 12 ILS CAT II	OU	332.600 MHZ	H24	645600.65N 0252009.50E	NIL	NIL	Angle: 3.0°
DME 12 ILS CAT II	OU	109.500 MHZ (CH32X)	H24	645600.65N 0252009.50E	100 FT	NIL	NIL
DVOR/DME (11° E 2020) (DECL 11°E)	OUK	113.300 MHZ (CH80X)	H24	645553.59N 0252133.42E	66 FT	NIL	NIL

Huom. ATS-elimen toiminta-aikojen ulkopuolella radiosuunnistus- ja laskeutumislaitteiden lähetteitä ei valvota, joten ne voivat olla virheellisiä.

Note: Outside the operational hours of ATS the signals of radio navigation and landing aids are not monitored and may therefore be invalid.

EFOU AD 2.20 PAIKALLISET MÄÄRÄYKSET
EFOU AD 2.20 LOCAL AERODROME REGULATIONS

1 MENETELMÄT LENTOONLÄHTÖJÄ VARTEN TAPAUKSISSA, JOISSA EI KÄYTETÄ KIITOTIEN KOKO PITUUTTA

Lentoonlähdöt kiitotien ja rullausteiden risteyksistä voidaan suorittaa ilma-aluksen päällikön pyynnöstä liikennetilanteen salliessa 0500-2000 UTC (0400-1900 UTC).

Laskennalliset pituudet, ks. kohta AD 2.13.

1 PROCEDURES FOR INTERSECTION TAKE-OFFS

Take-offs from the specified intersection of runway / taxiways intersections can be performed upon the pilot-in-command's request the traffic situation permitting 0500-2000 UTC (0400-1900 UTC).

Declared distances, see para AD 2.13.

2 PIENENNETYT KIITOTIEPORRASTUSMINIMIT

Kiitotielle 12/30 on hyväksytty pienennetyt kiitotieporrastusminimit. Tarkempi kuvaus menetelmistä, ks. AIP, AD 1.1, kohta 5.11.

2 REDUCED RUNWAY SEPARATION MINIMA

Reduced runway separation minima have been approved for RWY 12/30. For more detailed description of the procedures, see AIP AD 1.1, para 5.11.

EFPO AD 2.1 LENTOPAIKAN TUNNUS JA NIMI
EFPO AD 2.1 AERODROME LOCATION INDICATOR AND NAME
EFPO - PORI

EFPO AD 2.2 LENTOPAIKAN SIJAINTI JA HALLINTO
EFPO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*Mittapisteen (ARP) sijainti* *ARP coordinates and site at AD*	612741N 0214752E LCA 131° GEO / 1058 M FM THR 12
2	*Etäisyys ja suunta kaupungista* *Direction and distance from city*	1.4 NM (2.5 KM) S
3	*ELEV / REF T / MEAN LOW T*	45 FT / 22° C / NIL
4	*Geoidin korkeus ellipsoidista (GUND AD ELEV PSN)* *Geoid undulation at AD ELEV PSN*	61 FT
5	*MAG VAR / Vuosittainen muutos* *MAG VAR / Annual change*	8.4° E (JAN 2020) / +0.2°
6	*AD OPR* *Postisoite / Address* *TEL* *FAX* *AFS* *e-mail* *Internet*	FINAVIA Porin lentoasema Lentoasemantie 1 FI-28500 PORI TEL: CHF +358 50 571 2925 AFS: EFPO Internet: www.finavia.fi/fi/lentoasemat/pori
7	*Sallitut liikennetyypit (IFR/VFR)* *Types of traffic permitted (IFR/VFR)*	IFR/VFR
8	*RMK*	NIL

EFPO AD 2.3 TOIMINTA-AJAT
EFPO AD 2.3 OPERATIONAL HOURS

1	*Lentopaikan pitäjä* *Aerodrome operator*	HO
2	*CUST, IMG* *Customs and immigration*	HO PN 4 HR CUST +358 295 527 165 IMG +358 294 1040 IMG mrcc@raja.fi
3	*Terveystarkastus* *Health and sanitation*	NIL
4	*AIS* *AIS Briefing Office*	H24 www.ais.fi
5	*ARO* *ATS Reporting Office (ARO)*	H24 FPC TEL +358 20 428 4800
6	*MET* *MET Briefing Office*	H24
7	*ATS* *ATS*	NOTAM
8	*Polttoaineiden jakelu* *Tankkauspyynnöt* *Fuelling* *Refuelling requests*	HO Tankkauspyynnöt JET A-1: PN 2 HR TWR:n toiminta-aikoina. Maksukortit: MasterCard, Shell Aviation fuel&fly, Shell Aviation Carnet, Visa, Visa Electron Refuelling requests: JET A-1: PN 2 HR during OPR HR of TWR. Accepted cards: MasterCard, Shell Aviation fuel&fly, Shell Aviation Carnet, Visa, Visa Electron FUELLING +358 20 708 6040

9	*Tavaran käsittely* *Handling*	HO
10	*Turvatarkastus* *Security*	HO
11	*Jäänpoisto* *De-icing*	HO PN 12 HR DE-ICING +358 45 636 4310
12	*RMK*	Lennonsuunnitteluun käytettävissä itsepalvelulaite terminaalin auki-oloaikoina. Neuvontaa ja AIS-asiakirjoja saatavissa FPC:stä. Self-briefing equipment available for flight planning during terminal opening hours. Consultation and AIS documents available from FPC.

EFPO AD 2.4 ASEMAPALVELUT JA VÄLINEET
EFPO AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Kuormausvälineet* *Cargo-handling facilities*	NIL
2	*Polttoainelaadut / Öljylaadut* *Fuel types / Oil types*	Fuel: JET A-1 Oil: EE 20W-50
3	*Polttoainetäydennyslaitteet / kapasiteetti* *Fuelling facilities / capacity*	JET A-1: yksi kiinteä säiliö MAX 25000 L, 220 L/MIN, ja yksi kuorma-auto MAX 24500 L, 750 L/MIN JET A-1: One fixed fuel bin MAX 25000 L, 220 L/MIN, one truck MAX 24500 L, 750 L/MIN
4	*Jäänpoistolaitteet* *De-icing facilities*	AVBL
5	*Suojatilaa vieraileville koneille* *Hangar space for visiting aircraft*	NIL
6	*Vierailevien koneiden korjausmahdollisuus* *Repair facilities for visiting aircraft*	NIL
7	*RMK*	NIL

EFPO AD 2.5 MATKUSTAJAPALVELUT
EFPO AD 2.5 PASSENGER FACILITIES

1	*Hotellit* *Hotels*	Kaupungissa In the city
2	*Ravintolat* *Restaurants*	On Yes
3	*Henkilökuljetus* *Transportation*	Linja-autot ja taksit Buses and taxis
4	*Ensiapuvälineet* *Medical facilities*	On Yes
5	*Pankki ja posti* *Bank and Post Office*	Pankki / Bank: NIL Posti / Post: NIL
6	*Turistipalvelut* *Tourist Office*	NIL
7	*RMK*	NIL

EFPO AD 2.6 PALO- JA PELASTUSPALVELUT
EFPO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

Huom. ATS-elimen toiminta-aikojen ulkopuolella ATIS-lähetettä ei valvota, joten se voi olla virheellinen.

Note: Outside the operational hours of ATS the ATIS broadcast is not monitored and may therefore be invalid.

EFRO AD 2.19 RADIOSUUNNISTUS- JA LASKEUTUMISLAITTEET
EFRO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid MAG VAR CAT of ILS / MLS DECL	*ID*	*FREQ CH*	*HR UTC*	*PSN*	*DME ELEV FT*	*Service volume radius*	*RMK*
1	2	3	4	5	6	7	8
LOC 21 ILS CAT II (12° E 2020)	RO	111.700 MHZ	H24	663305.53N 0254818.39E	NIL	NIL	Facility Performance II/T/2
GP 21 ILS CAT II	RO	333.500 MHZ	H24	663428.06N 0255043.42E	NIL	NIL	Angle: 3.0°
DME 21 ILS CAT II	RO	111.700 MHZ (CH54X)	H24	663428.06N 0255043.42E	673 FT	NIL	NIL
DVOR/DME (12° E 2020) (DECL 12°E)	ROI	117.700 MHZ (CH124X)	H24	663345.14N 0254913.47E	661 FT	NIL	NIL

Huom. ATS-elimen toiminta-aikojen ulkopuolella radiosuunnistus- ja laskeutumislaitteiden lähetteitä ei valvota, joten ne voivat olla virheellisiä.

Note: Outside the operational hours of ATS the signals of radio navigation and landing aids are not monitored and may therefore be invalid.

EFRO AD 2.20 PAIKALLISET MÄÄRÄYKSET
EFRO AD 2.20 LOCAL AERODROME REGULATIONS

1 MENETELMÄT LENTOONLÄHTÖJÄ VARTEN TAPAUKSISSA, JOISSA EI KÄYTETÄ KIITOTIEN KOKO PITUUTTA

Lentoonlähtö kiitotien ja rullausteiden risteyksestä voidaan suorittaa ilma-aluksen päällikön pyynnöstä liikennetilanteen salliessa.

Laskennalliset pituudet, ks. kohta AD 2.13.

1 PROCEDURES FOR INTERSECTION TAKE-OFFS

Take-offs from the specified intersection of runway / taxiways intersections can be performed upon the pilot-in-command's request the traffic situation permitting.

Declared distances, see para AD 2.13.

2 PIENENNETYT KIITOTIEPORRASTUSMINIMIT

Kiitotielle 03/21 on hyväksytty pienennetyt kiitotieporrastusminimit. Tarkempi kuvaus menetelmistä, ks. AIP, AD 1.1, kohta 5.11.

2 REDUCED RUNWAY SEPARATION MINIMA

Reduced runway separation minima have been approved for RWY 03/21. For more detailed description of the procedures, see AIP AD 1.1, para 5.11.

3 VFR-LIIKENTEEN RAJOITTAMINEN

Lennonjohto rajoittaa tarvittaessa laskukierrokseen selvitettävien ilma-alusten lukumäärää. Sovellettavaan lukumäärään vaikuttavat esim. sää, kunnossapitotyöt tai muu liikenne.

3 VFR TRAFFIC RESTRICTIONS

If necessary, the number of aircraft cleared to fly in the aerodrome traffic circuit is restricted by ATC. The number of aircraft is determined by e.g. weather conditions, maintenance works or other traffic.

4 RULLAUSMENETELMÄT

E- ja F-viitekoodin ilma-alusten rullausreitit on esitetty AGMC-kartassa. E- ja F-viitekoodin ilma-alusten tulee rullausteiden risteyksissä kääntyessään käyttää yliohjausta.

4 TAXIING PROCEDURES

Taxi routes for the aircrafts with code letter E and F are presented on the AGMC chart. Aircrafts with code letter E and F shall use judgemental oversteering on taxiway intersections.

5 TANKKAUSTOIMINTAA KOSKEVA RAJOITUS

5 RESTRICTION CONCERNING AIRCRAFT REFUELLING

Polttoainekanistereiden tai vastaavien käyttö tankkaukseen on lentokenttäalueella kielletty, ellei lentoasema ole paikallisesti muunlaista menettelyä kirjallisesti julkaissut.

The use of fuel canisters, and the like, for refuelling is prohibited in the airport area unless the airport has published a written local procedure.

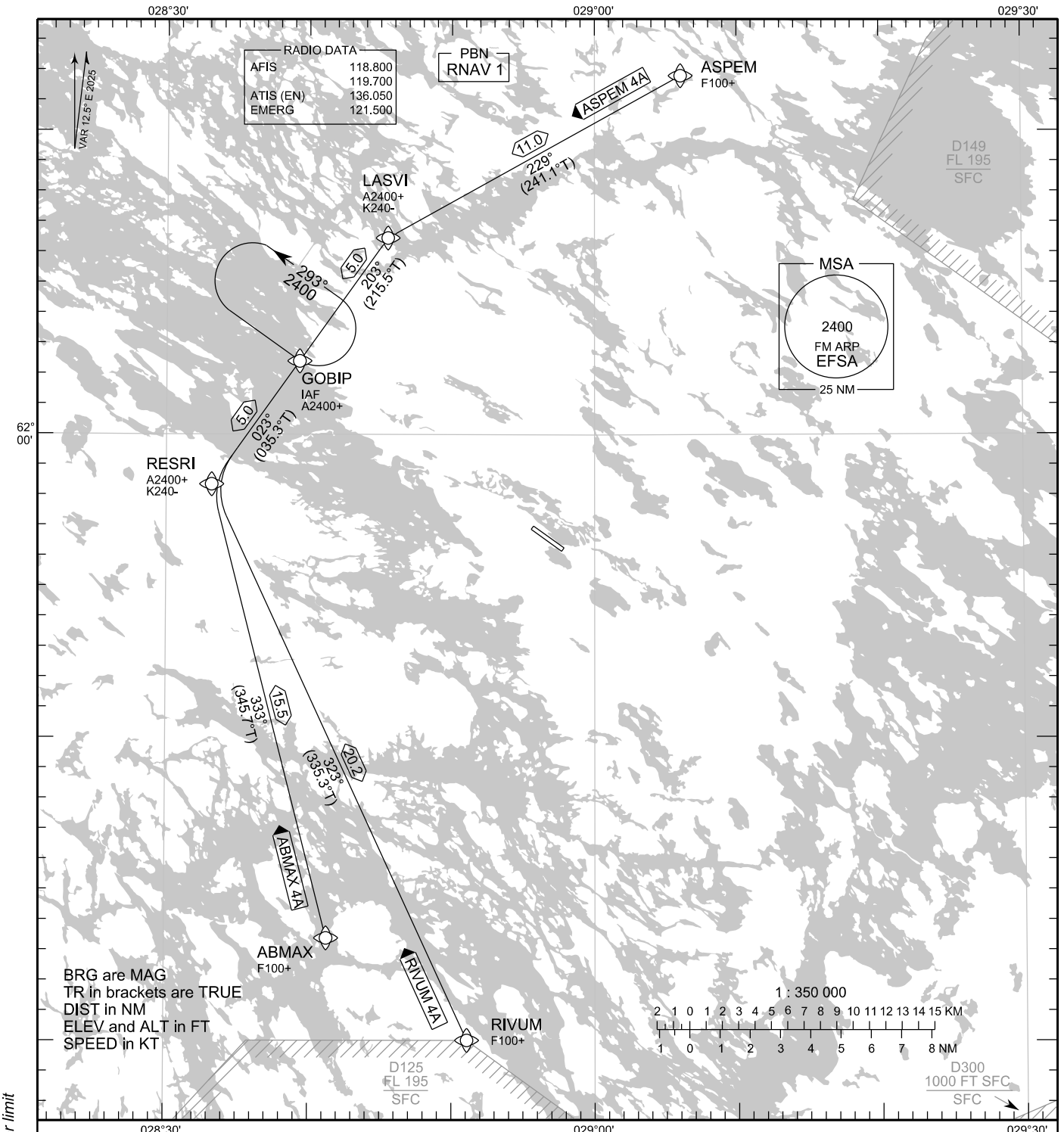
6 ILMA-ALUKSEN SEISONTAPAIKAT

6 AIRCRAFT STANDS

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
1	APN	663333.78N 0255002.04E	631 FT	50/F/A/X/T	NIL	ASPH	Push back required
2	APN	663333.46N 0254958.07E	633 FT	50/F/A/X/T	NIL	ASPH	Push back required
3	APN	663333.14N 0254954.09E	634 FT	50/F/A/X/T	NIL	ASPH	Push back required
3B	APN	663333.63N 0254954.86E	634 FT	50/F/A/X/T	NIL	ASPH	Push back on request
4	APN	663332.82N 0254950.11E	635 FT	50/F/A/X/T	NIL	ASPH	Push back required
4B	APN	663333.13N 0254948.65E	636 FT	50/F/A/X/T	NIL	ASPH	Push back on request
5	APN	663332.51N 0254946.14E	635 FT	50/F/A/X/T	NIL	ASPH	Push back required
5B	APN	663335.82N 0254943.89E	633 FT	50/F/A/X/T	NIL	ASPH	Push back on request
6	APN	663332.20N 0254942.28E	634 FT	50/F/A/X/T	NIL	ASPH	Push back required
6B	APN	663332.50N 0254942.88E	635 FT	50/F/A/X/T	NIL	ASPH	Push back on request
6C	APN	663331.83N 0254941.16E	634 FT	50/F/A/X/T	NIL	ASPH	Push back on request
7	APN	663330.62N 0254938.73E	633 FT	100/R/A/W/T	VDGS AVBL	CONC	MNM clearance to PAX bridge for ACFT Code letter C to E is 2.70 M longitudinal and 1.25 M lateral. Push back required
7B	APN	663331.59N 0254937.81E	633 FT	100/R/A/W/T	NIL	CONC	NIL
8	APN	663329.35N 0254935.36E	633 FT	100/R/A/W/T	VDGS AVBL	CONC	MNM clearance to PAX bridge for ACFT Code letter C to E is 2.70 M longitudinal and 1.25 M lateral. Push back required
8B	APN	663328.70N 0254930.73E	631 FT	50/F/A/X/T	NIL	ASPH	Push back on request
8C	APN	663328.92N 0254929.91E	631 FT	50/F/A/X/T	NIL	ASPH	NIL
9	APN	663327.71N 0254932.06E	632 FT	100/R/A/W/T	VDGS AVBL	CONC	Push back required
13	APN	663337.30N 0254954.87E	630 FT	50/F/A/X/T	NIL	ASPH	Push back on request
14	APN	663336.99N 0254950.90E	631 FT	50/F/A/X/T	NIL	ASPH	Push back on request
15	APN	663336.67N 0254946.92E	633 FT	50/F/A/X/T	NIL	ASPH	Push back on request

TRANSITION ALT
5000

SAVONLINNA, FINLAND



RNAV STAR RWY 12

ABMAX 4A ASPEM 4A RIVUM 4A

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND

AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: COR D300 upper limit

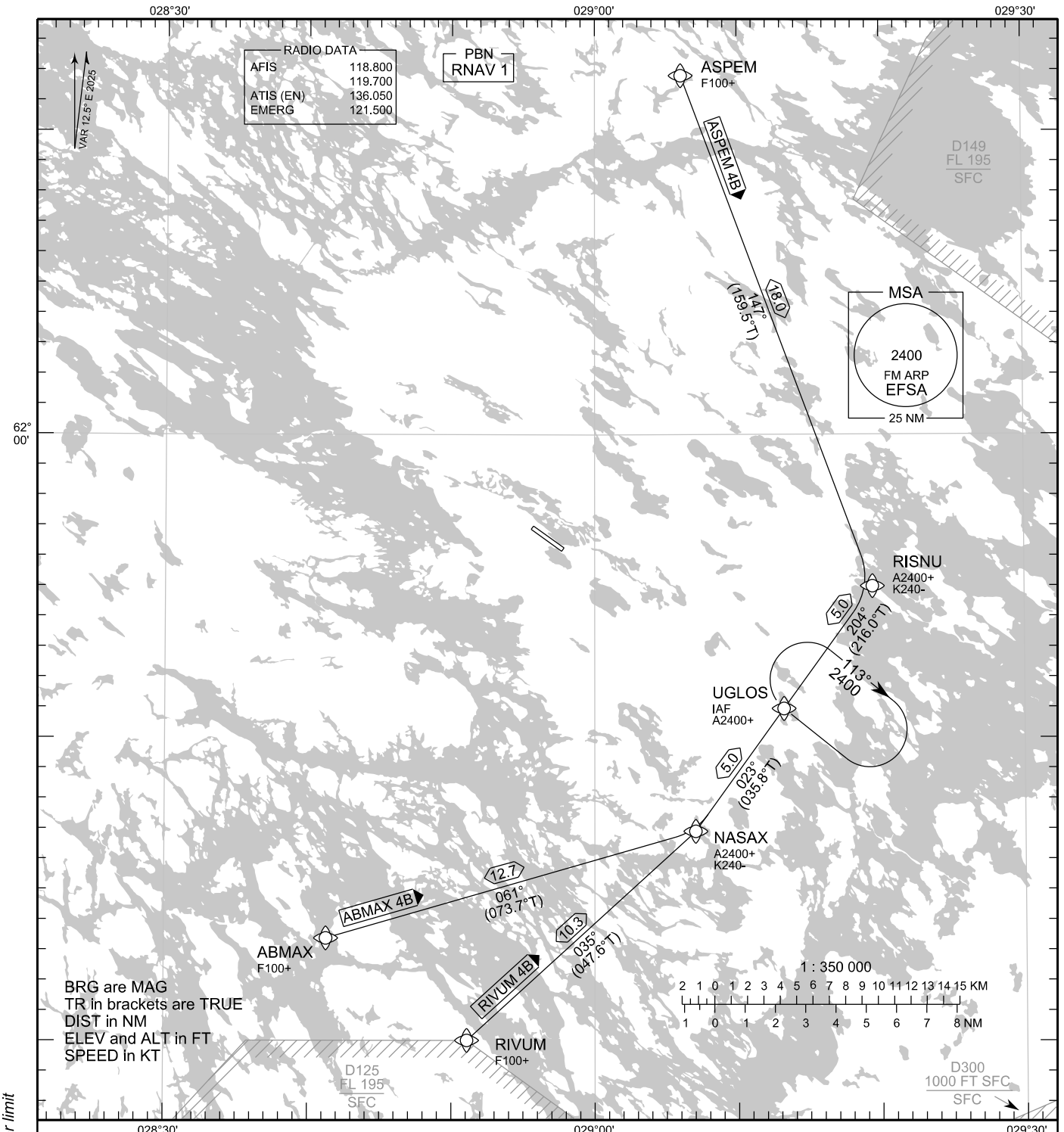
EFSA RNAV STAR RWY 12										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ABMAX 4A RNAV 1	010	IF	ABMAX	-	-	-	-	F100+		
	020	TF	RESRI	-	333°	345.7°T	15.5	A2400+		K240-
	030	TF	GOBIP	-	023°	035.3°T	5.0	A2400+		
ASPEM 4A RNAV 1	010	IF	ASPEM	-	-	-	-	F100+		
	020	TF	LASVI	-	229°	241.1°T	11.0	A2400+		K240-
	030	TF	GOBIP	-	203°	215.5°T	5.0	A2400+		
RIVUM 4A RNAV 1	010	IF	RIVUM	-	-	-	-	F100+		
	020	TF	RESRI	-	323°	335.3°T	20.2	A2400+		K240-
	030	TF	GOBIP	-	023°	035.3°T	5.0	A2400+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
GOBIP	125.4°T	113°	Left	K230-	A2400	1 MIN	-

WPT COORD
SEE PAGE EFSA AD 2.15 - 1

TRANSITION ALT
5000

SAVONLINNA, FINLAND



RNAV STAR RWY 30

ABMAX 4B ASPEM 4B RIVUM 4B

DME/DME OPS:	NOT SUPPORTED
ROUTES:	RNAV PROC CODING ON THE VERSO OF THE CHART ATC WILL GIVE DESCENT CLEARANCES
WPT CONSTRAINTS:	ALT / FL / SPEED CONSTRAINTS MUST ALWAYS BE FOLLOWED AS PUBLISHED UNLESS EXPLICITLY CANCELLED BY ATC
CD OPS:	BY ATC CLR IF TFC PERMITS. PLAN CD PATH ACCORDING TO STAR
RCF:	SELECT TRANSPONDER CODE 7600
	RNAV STAR HAS BEEN GIVEN AND ACKNOWLEDGED: FOLLOW THE STAR TO THE RESPECTIVE RWY AND EXECUTE IAP AND LAND

AREA MNM ALT:	SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: COR D300 upper limit

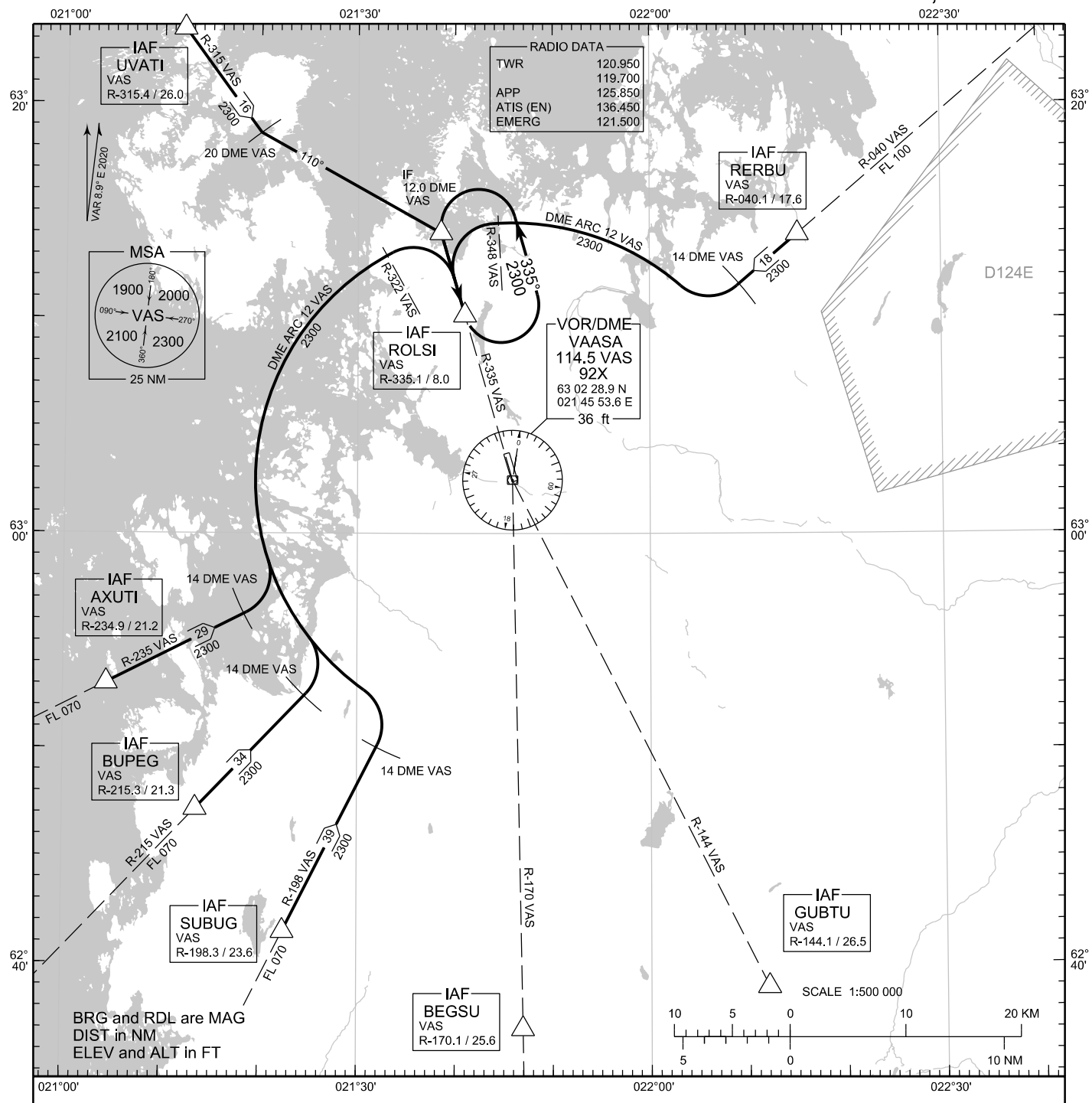
EFSA RNAV STAR RWY 30										
RTE NAV SPEC	SEQ NR	P/T	WPT		MAG	GEO TR	DIST NM	Constraints		
			ID	Flyover				LVL	LVL	Speed
ABMAX 4B RNAV 1	010	IF	ABMAX	-	-	-	-	F100+		
	020	TF	NASAX	-	061°	073.7°T	12.7	A2400+		K240-
	030	TF	UGLOS	-	023°	035.8°T	5.0	A2400+		
ASPEM 4B RNAV 1	010	IF	ASPEM	-	-	-	-	F100+		
	020	TF	RISNU	-	147°	159.5°T	18.0	A2400+		K240-
	030	TF	UGLOS	-	204°	216.0°T	5.0	A2400+		
RIVUM 4B RNAV 1	010	IF	RIVUM	-	-	-	-	F100+		
	020	TF	NASAX	-	035°	047.6°T	10.3	A2400+		K240-
	030	TF	UGLOS	-	023°	035.8°T	5.0	A2400+		

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	Speed	MNM HLDG LVL	TIME	DIST NM
UGLOS	305.7°T	293°	Right	K230-	A2400	1 MIN	-

WPT COORD
SEE PAGE EFSA AD 2.15 - 1

TRANSITION ALT
5000

NON-RNAV INA RWY 16
VAASA AERODROME
VAASA, FINLAND



NON-RNAV INITIAL APPROACH ROUTES RWY 16 VIA:

AXUTI BUPEG RERBU SUBUG UVATI

NOISE ABATEMENT:
AVOID OVERFLYING THE CITY OF VAASA BELOW 2000

COMMUNICATION FAILURE:
IN ACCORDANCE WITH THE RULES OF THE AIR

AREA MNM ALT:
SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: MSA

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TRANSITION ALT
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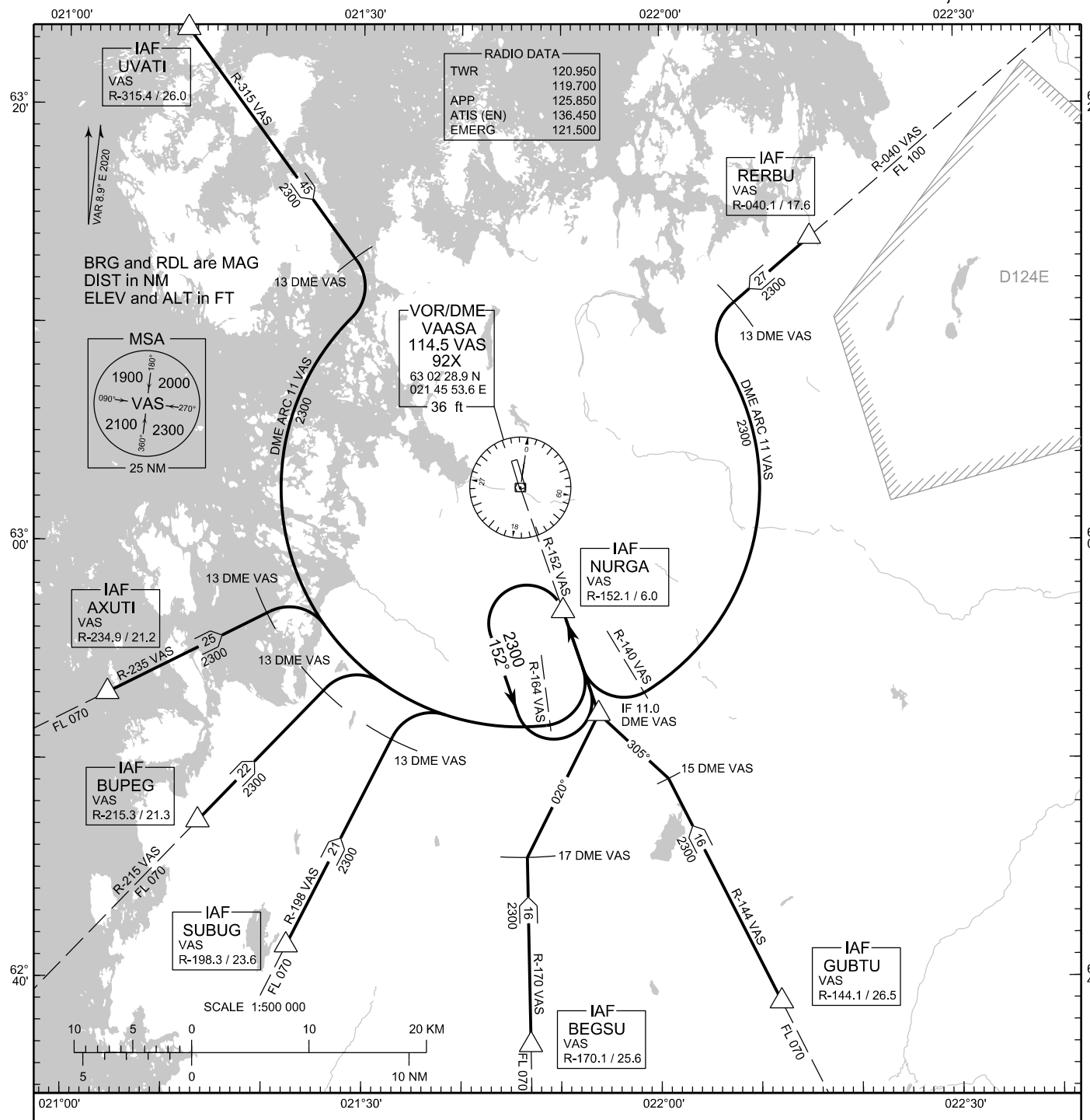
VAASA, FINLAND



NON-RNAV INITIAL APPROACH ROUTES RWY 34 VIA:

AXUTI BEGSU BUPEG GUBTU RERBU SUBUG UVATI

NOISE ABATEMENT:
AVOID OVERFLYING THE CITY OF VAASA BELOW 2000

COMMUNICATION FAILURE:
IN ACCORDANCE WITH THE RULES OF THE AIR

AREA MNM ALT:
SEE AMA INDEX, AIP ENR 6.1 - 3

CHG: MSA

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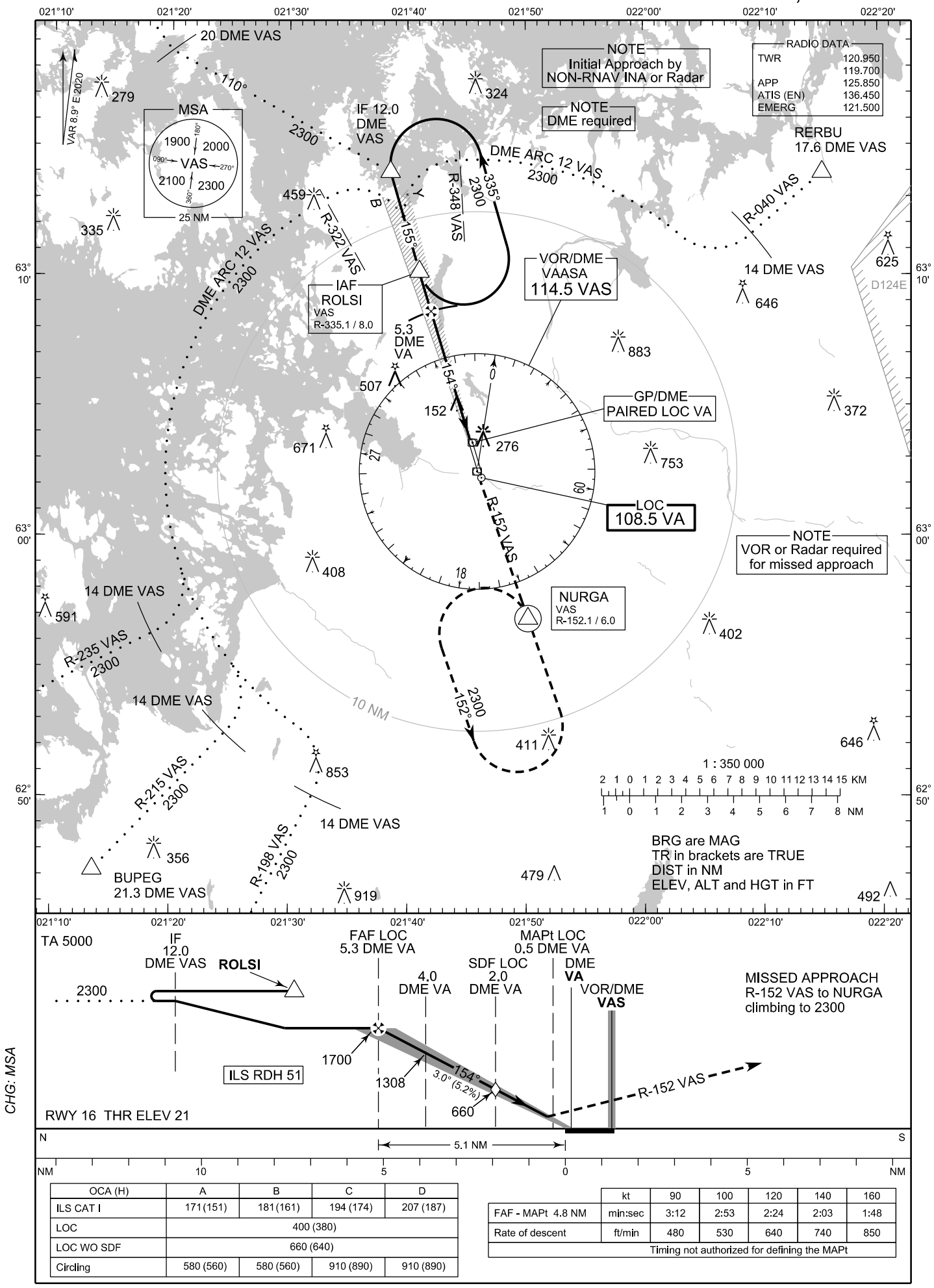
VAASA, FINLAND



CHG: MSA

OCA (H)	A	B	C	D
ILS CAT I	171 (151)	181 (161)	194 (174)	207 (187)
LOC	400 (380)			
LOC WO SDF	660 (640)			
Circling	580 (560)	580 (560)	910 (890)	910 (890)

	kt	90	100	120	140	160
FAF - MAPt 4.8 NM	min:sec	3:12	2:53	2:24	2:03	1:48
Rate of descent	ft/min	480	530	640	740	850
Timing not authorized for defining the MAPt						

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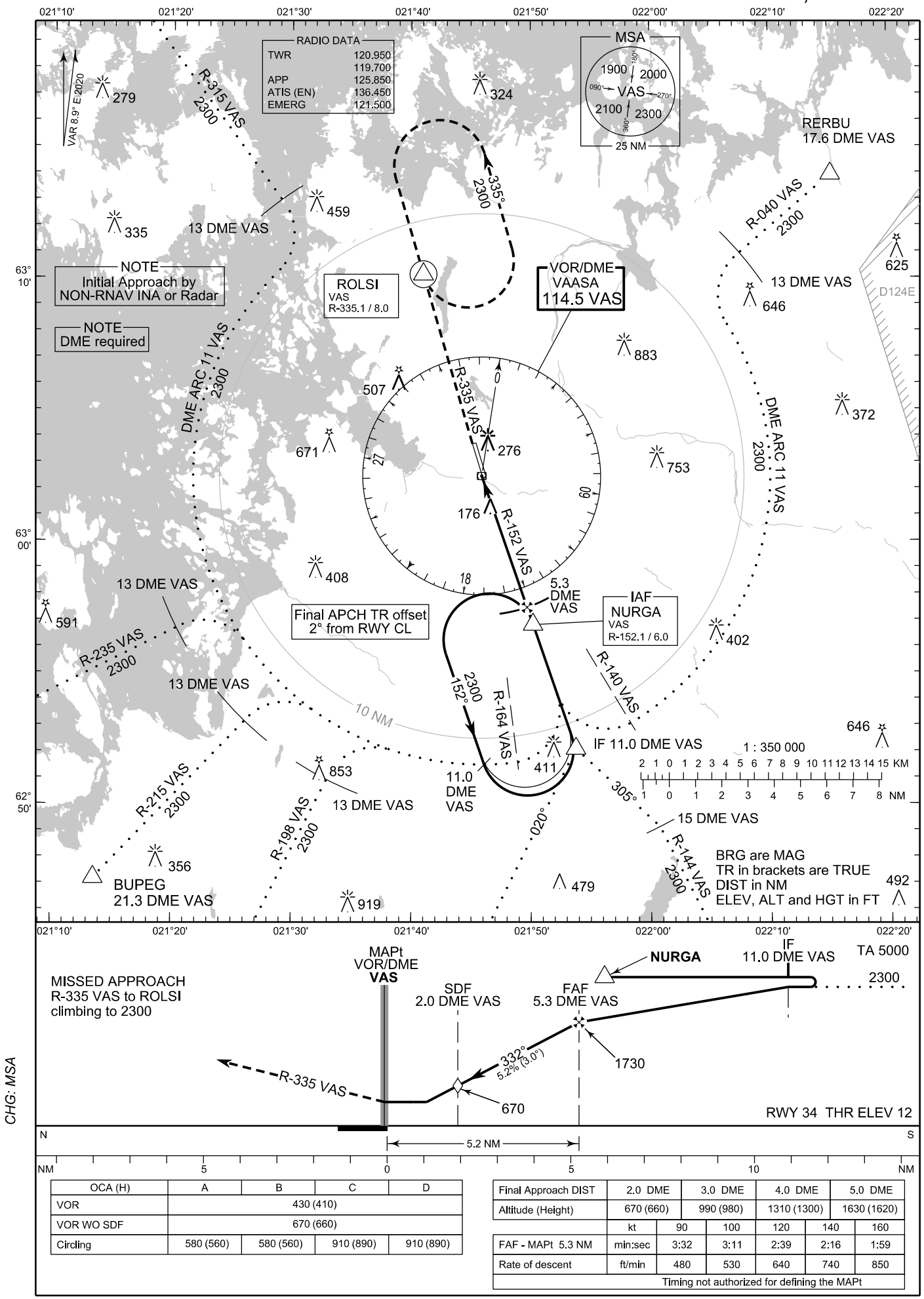
ELEV 21 FT
HEIGHTS RELATED TO
THR RWY 34 ELEV 12 FT

VOR RWY 34
VAASA AERODROME
VAASA, FINLAND



OCA (H)	A	B	C	D
VOR	430 (410)			
VOR WO SDF	670 (660)			
Circling	580 (560)	580 (560)	910 (890)	910 (890)

Final Approach DIST	2.0 DME	3.0 DME	4.0 DME	5.0 DME
Altitude (Height)	670 (660)	990 (980)	1310 (1300)	1630 (1620)

	kt	90	100	120	140	160
FAF - MAPt 5.3 NM	min:sec	3:32	3:11	2:39	2:16	1:59
Rate of descent	ft/min	480	530	640	740	850

Timing not authorized for defining the MAPt

CHG: MSA

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EFLA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	*Käytettävissä olevat välineet* *Types of clearing equipment*	NIL
2	*Kunnossapitotöiden järjestys* *Clearance priorities*	NIL
3	*Liukkaudentorjuntaan käytettävät materiaalit* *Use of material for movement area surface treatment*	NIL
4	*Erityismenetelmin kunnostettu kiitotie* *Specially prepared winter runways*	NIL
5	*RMK*	Ei talvikunnossapitoa No winter maintenance

EFLA AD 2.8 ASEMATASOT, RULLAUSTIET JA TARKISTUSPISTEET
EFLA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	*Asematasojen pinta ja kantavuus* *Apron surface and strength*	*APN ID*	*SFC*	*PCN*	*RMK*	
		NIL	NIL	NIL	NIL	
2	*Rullausteiden leveys, pinta ja kantavuus* *Taxiway width, surface and strength*	*TWY ID*	*WID*	*SFC*	*PCN*	*RMK*
		NIL	NIL	NIL	NIL	NIL
3	*ACL tarkistuspaikka ja sen korkeus* *Altimeter checkpoint location and elevation*	NIL				
4	*VOR tarkistuspisteet* *VOR checkpoints*	NIL				
5	*INS tarkistuspisteet* *INS checkpoints*	NIL				
6	*RMK*	NIL				

EFLA AD 2.9 KENTTÄALUEEN OPASTEET JA MERKINNÄT
EFLA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Ilma-alusten seisontapaikkakyltit, rullausopasteet* *Use of aircraft stand ID signs, TWY guide lines*	NIL
2	*RWY / TWY merkinnät ja valaistus* *RWY / TWY markings and LGT*	NIL
3	*Pysäytysvalorivit* *Stop bars*	NIL
4	*Muut kiitotien suojaustoimenpiteet* *Other runway protection measures*	NIL
5	*RMK*	NIL

EFLA AD 2.10 LENTOPAIKAN ESTEET
EFLA AD 2.10 AERODROME OBSTACLES

NIL

EFLA AD 2.11 LENTOSÄÄPALVELU
EFLA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Vastuussa oleva lentosääkeskus* *Associated MET Office*	NIL

2	*Palveluajat* *Toissijainen lentosääkeskus*	NIL
	Hours of service *MET Office outside hours*	
3	*TAF-ennusteet laativa lentosääkeskus* *Voimassaoloaika* *Julkaisutiheys*	NIL
	Office responsible for TAF preparation *Period of validity* *Interval of issuance*	
4	*TREND-ennusteen saatavuus* *Julkaisutiheys*	NIL
	Availability of TREND forecast *Interval of issuance*	
5	*Säätuotteiden jakelu ja sääneuvonta*	www.ilmailusaa.fi (self-briefing) TEL +358 600 9 3808 Meteorologi / Forecaster - maksullinen palvelu / charged service
	Briefing and consultation provided	
6	*Sääasiakirjat* *Käytettävät kielet*	Asetuksen (EU) 2017/373 edellyttämät sääkartat ja -sanomat Charts and forms according to (EU) 2017/373 requirements EN
	Flight documentation *Language(s) used*	
7	*Jakelussa ja sääneuvonnassa käytettävät muut kartat ja tiedot*	Fennoskandian alueelta saatavilla myös muuta havainto- ja ennustetietoa Other observations and forecasts available for Fennoscandian area www.ilmailusaa.fi
	Charts and other information available for briefing and consultation	
8	*Täydentävä laitteisto lisätiedon tuottamiseksi*	NIL
	Supplementary equipment available for providing information	
9	*Palveltavat ATS-yksiköt*	NIL
	ATS units provided with information	
10	*Lisätiedot (rajoitukset yms.)*	NIL
	Additional information (limitations of service etc.)	

EFLA AD 2.12 KIITOTIEN OMINAISTIEDOT
EFLA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

RWY ID	*TRUE BRG*	*DMN RWY M*	*PCN and SFC of RWY and SWY*	*THR COORD* *RWY end COORD* *THR GUND*	*THR ELEV* *TDZ ELEV*
1	2	3	4	5	6
07	067.86	1199 x 30	ASPH SWY: NIL	DTHR 610834.31N 0254110.09E 610847.00N 0254214.67E GUND: NIL	THR: 495.4 FT NIL
25	247.88	1199 x 30	ASPH SWY: NIL	DTHR 610846.28N 0254210.98E 610832.40N 0254100.45E GUND: NIL	THR: 497.4 FT NIL
18	185.60	LEN: 550	ASPH and GRASS SWY: NIL	NIL NIL GUND: NIL	NIL NIL
36	005.60	LEN: 550	ASPH and GRASS SWY: NIL	NIL NIL GUND: NIL	NIL NIL

RWY ID	*RWY / SWY Slope*	*SWY DMN M*	*CWY DMN M*	*STRIP DMN M*	*RESA DMN M*	*RAG*	*OFZ*
1	7	8	9	10	11	12	13
07	NIL	NIL	36 x 60	1271 x 60	NIL	NIL	NIL
25	NIL	NIL	53 x 60	1271 x 60	NIL	NIL	NIL
18	NIL	NIL	NIL	NIL	NIL	NIL	NIL
36	NIL	NIL	NIL	NIL	NIL	NIL	NIL

RWY ID	*RMK*
1	14
07	Ei-mittarikiitotie Non-instrument RWY
25	Ei-mittarikiitotie Non-instrument RWY
18	NIL
36	NIL

EFLA AD 2.13 LASKENNALLISET PITUUDET
EFLA AD 2.13 DECLARED DISTANCES

RWY ID	*TORA M*	*TODA M*	*ASDA M*	*LDA M*	*RMK*
1	2	3	4	5	6
07	1199	1235	1199	1043	NIL
25	1199	1252	1199	1139	NIL
18	NIL	NIL	NIL	NIL	NIL
36	NIL	NIL	NIL	NIL	NIL

LYHENNETYT LASKENNALLISET PITUUDET
REDUCED DECLARED DISTANCES

RWY ID RWY INT	*TORA M*	*TODA M*	*ASDA M*	*LDA M*	*RMK*
1	2	3	4	5	6
NIL	NIL	NIL	NIL	NIL	NIL

EFLA AD 2.14 LÄHESTYMIS- JA KIITOTIEVALOT
EFLA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY ID	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ LGT LEN*	*RCL LGT LEN spacing colour INTST*	*REDL LEN spacing colour INTST*	*RENL colour WBAR*	*SWY LGT LEN colour*	*RMK*
1	2	3	4	5	6	7	8	9	10
07	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
25	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
36	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFLA AD 2.15 MUU VALAISTUS, VARAVOIMA-ASEMA
EFLA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN / IBN sijainti, ominaistiedot ja toiminta-ajat* *ABN / IBN location, characteristics and hours of operation*	NIL

2	*LDI sijainti ja valaistus* *WDI sijainti ja valaistus*	NIL
	LDI location and LGT *WDI location and LGT*	
3	*TWY reuna- ja keskilinjavalot*	NIL
	TWY edge and centre line lighting	
4	*Varavoima-asema* *Vaihtoaika*	NIL
	Secondary power supply / switch-over time	
5	*RMK*	NIL

EFLA AD 2.16 HELIKOPTERIEN LASKUALUE
EFLA AD 2.16 HELICOPTER LANDING AREA

FATO ID	*FATO THR COORD*	*FATO ELEV FT*	*FATO DMN M SFC MTOM Markings*	*True BRG of FATO*	*Declared distance AVBL*	*APP and FATO LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
TLOF ID	*TLOF COORD*	*TLOF ELEV FT*	*TLOF DMN M SFC MTOM Markings*	*True BRG of TLOF*	*Declared distance AVBL*	*APP and TLOF LGT*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFLA AD 2.17 ATS-ILMATILA
EFLA AD 2.17 ATS AIRSPACE

Designation and lateral limits	*Vertical limits*	*Airspace classification*	*ATS unit call sign Language(s)*	*Transition altitude*	*Hours of applicability*	*RMK*
1	2	3	4	5	6	7
NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFLA AD 2.18 ATS-VIESTILAITTEET
EFLA AD 2.18 ATS COMMUNICATION FACILITIES

SER	*Call Sign*	*FREQ*	*HR UTC*	*SATVOICE*	*Logon address*	*RMK*
1	2	3	4	5	6	7
EFLA UNCONTROLLED	VESIVEHMAA LIIKENNE VESIVEHMAA TRAFFIC	123.400 MHZ	NIL	NIL	NIL	NIL
MET	-	135.250 MHZ	H24	NIL	NIL	Paikallista säätietoa Local meteorological information

EFLA AD 2.19 RADIOSUUNNISTUS- JA LASKEUTUMISLAITTEET
EFLA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid MAG VAR CAT of ILS / MLS DECL	*ID*	*FREQ CH*	*HR UTC*	*PSN*	*DME ELEV FT*	*Service volume radius*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFLA AD 2.20 PAIKALLISET MÄÄRÄYKSET
EFLA AD 2.20 LOCAL AERODROME REGULATIONS

1 ILMA-ALUKSEN SEISONTAPAIKAT **1 AIRCRAFT STANDS**

Name	*APN*	*COORD*	*ELEV*	*PCN*	*VDGS*	*SFC*	*RMK*
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

EFPR AD 2.21 MELUNVAIMENNUSMENETELMÄT
EFPR AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

EFPR AD 2.22 LENTOMENETELMÄT
EFPR AD 2.22 FLIGHT PROCEDURES

NIL

EFPR AD 2.23 LISÄTIETOJA
EFPR AD 2.23 ADDITIONAL INFORMATION

NIL

EFPR AD 2.24 LENTOASEMAA KOSKEVAT KARTAT
EFPR AD 2.24 CHARTS RELATED TO THE AERODROME

Charts	*Pages*
RNP RWY 15	EFPR AD 2.13 - 1
RNP RWY 33	EFPR AD 2.13 - 3
VAC	EFPR AD 2.14 - 1
FAS DATA BLOCK	EFPR AD 2.15 - 1

EFPR AD 2.25 VSS LÄPÄISYT
EFPR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATIONS

REF ICAO Doc 8168, Vol II, Construction of Visual and Instrument Flight Procedures, Part I - Section 4, Chapter 5, Para 5.4.6.

NR	***COORD***	***ELEV FT***	***Penetration FT***	***IAP***
1.	602817.97N 0263603.31E	161	33.5	EFPR RNP RWY 33 LNAV
2.	602819.03N 0263602.09E	151	28.8	
3.	602816.92N 0263602.07E	158	26.9	
4.	602814.72N 0263601.13E	155	15.4	
5.	602814.61N 0263600.84E	155	15.2	
6.	602828.68N 0263553.72E	89	10.6	
7.	602815.26N 0263602.22E	148	10.3	

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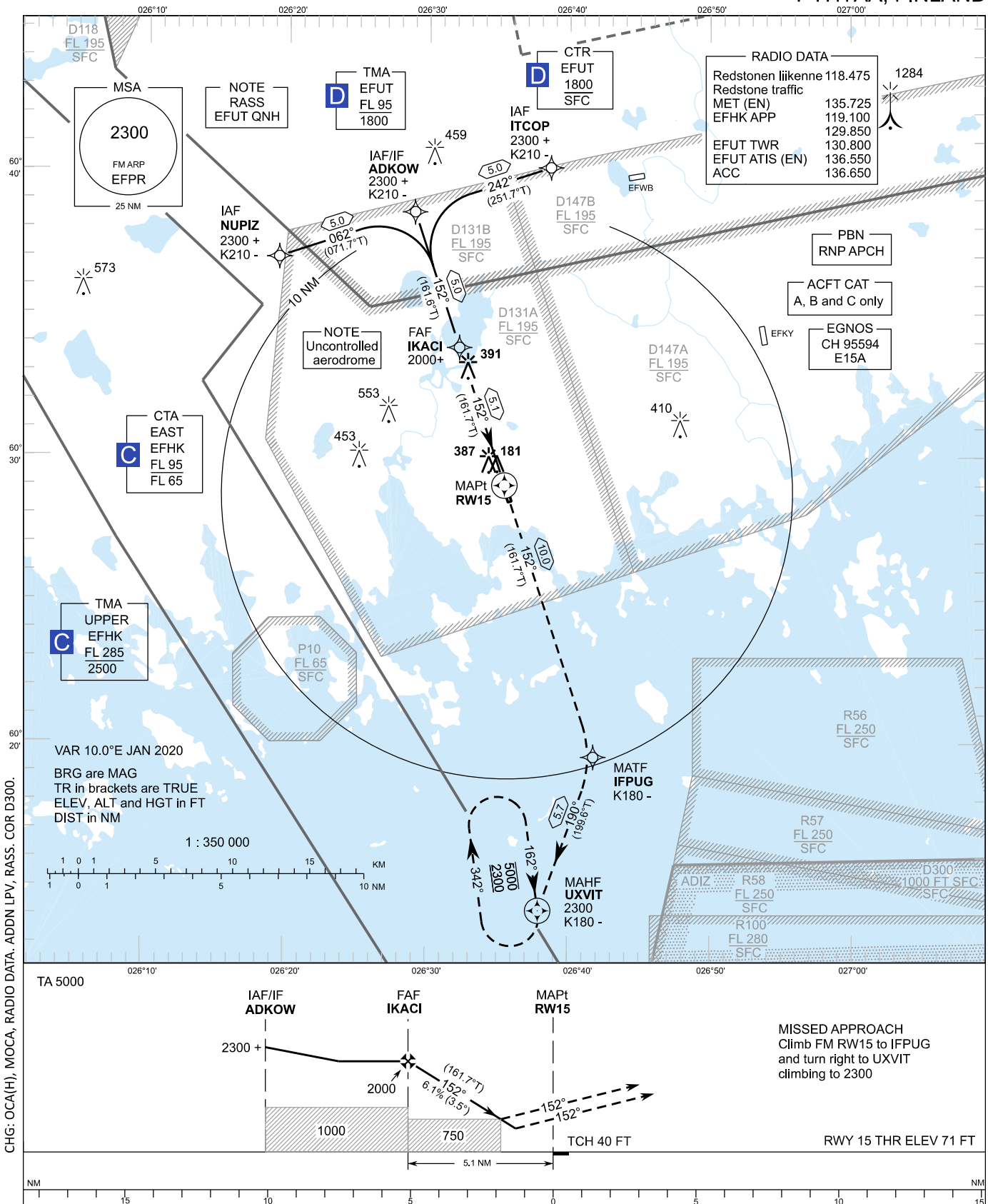
ELEV 75 FT
HEIGHTS RELATED TO
THR RWY 15 ELEV 71 FT

RNP RWY 15
REDSTONE AERO
PYHTÄÄ, FINLAND



CHG: OCA(H), MOCA, RADIO DATA. ADDN LPV, RASS. COR D300.

MISSED APPROACH
Climb FM RW15 to IFPUG
and turn right to UXVIT
climbing to 2300

OCA (H)	A	B	C
LPV	424 (353)	440 (369)	451 (380)
LNAV	750 (680)		
NOTE: MNM DH 500 FT			
Circling	800 (720)		900 (820)

DIST FM THR	2.0 NM		3.0 NM		4.0 NM	
Altitude (Height)	820 (750)		1190 (1120)		1570 (1500)	
	kt	90	100	120	130	140
FAF - MAPt 5.1 NM	min:sec	3:23	3:03	2:32	2:21	2:11
Rate of descent	ft/min	560	620	750	810	870
Timing not authorized for defining the MAPt						

EFPR RNP RWY 15										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H15 NUPIZ RNP APCH	005	IF	NUPIZ	IAF	-				A2300+	K210-
						062° 071.7°T	5.0			
	010	TF	ADKOW	IF	-			RIGHT	A2300+	
						152° 161.6°T	5.0			
	020	TF	IKACI	FAF	-				A2000+	
						152° 161.7°T	5.1			
	030	TF	RW15	MAPt	Y					
						152° 161.7°T	10.0			
	040	TF	IFPUG	MATF	-			RIGHT		K180-
						190° 199.6°T	5.7			
	050	TF	UXVIT	MAHF	Y				A2300	

EFPR RNP RWY 15										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H15 ADKOW RNP APCH	010	IF	ADKOW	IAF/IF	-				A2300+	K210-
						152° 161.6°T	5.0			
	020	TF	IKACI	FAF	-				A2000+	
						152° 161.7°T	5.1			
	030	TF	RW15	MAPt	Y					
						152° 161.7°T	10.0			
	040	TF	IFPUG	MATF	-			RIGHT		K180-
						190° 199.6°T	5.7			
	050	TF	UXVIT	MAHF	Y				A2300	

EFPR RNP RWY 15										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H15 ITCOP RNP APCH	005	IF	ITCOP	IAF	-				A2300+	K210-
						242° 251.7°T	5.0			
	010	TF	ADKOW	IF	-			LEFT	A2300+	
						152° 161.6°T	5.0			
	020	TF	IKACI	FAF	-				A2000+	
						152° 161.7°T	5.1			
	030	TF	RW15	MAPt	Y					
						152° 161.7°T	10.0			
	040	TF	IFPUG	MATF	-			RIGHT		K180-
						190° 199.6°T	5.7			
	050	TF	UXVIT	MAHF	Y				A2300	

EFPR RNP RWY 15							
ID	INBD TR	INBD MAG	Turn direction	MAX IAS	MNM HLDG LVL	TIME	DIST NM
UXVIT	172.0°T	162°	Right	K180-	A2300	1 MIN	-

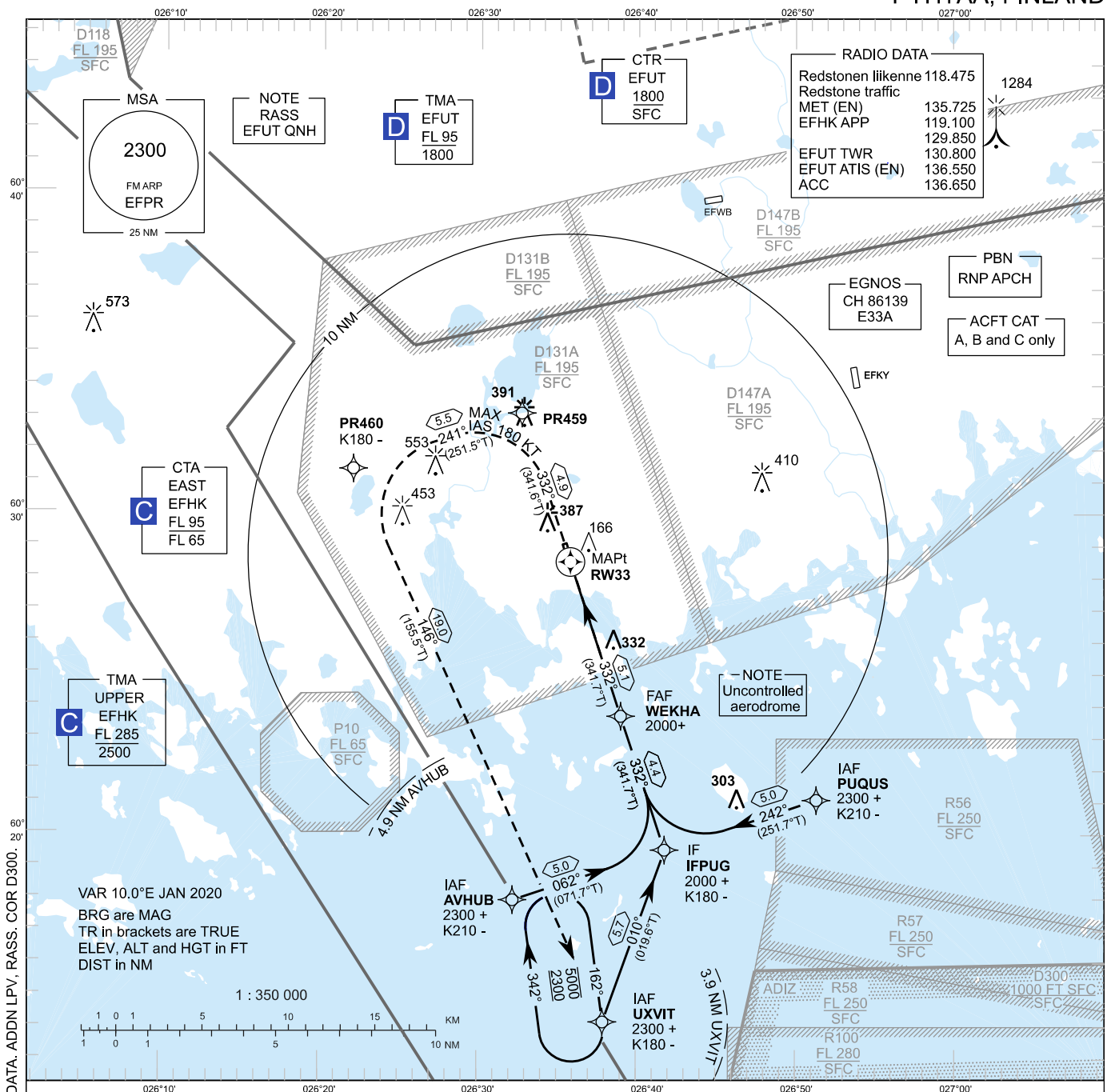
WPT COORD	
ID	COORD
IFPUG	601932.34N 0264147.08E
UXVIT	601410.29N 0263756.18E
NUPIZ	603659.31N 0261922.86E
ITCOP	604007.35N 0263839.67E
ADKOW	603833.68N 0262900.79E
IKACI	603349.95N 0263212.61E
RW15	602901.23N 0263526.80E

FINAL APPROACH PARAMETERS			
LNAV Gradient	Baro-VNAV		TCH
	VPA	MNM T	
6.12 % (3.50°)	NIL		40 FT

SBAS DATA	
ID	COORD
Approach ID	E15A
Service provider	EGNOS
CRC remainder	884374E7
Channel number	95594
Data block	EFPR AD 2.15 - 1

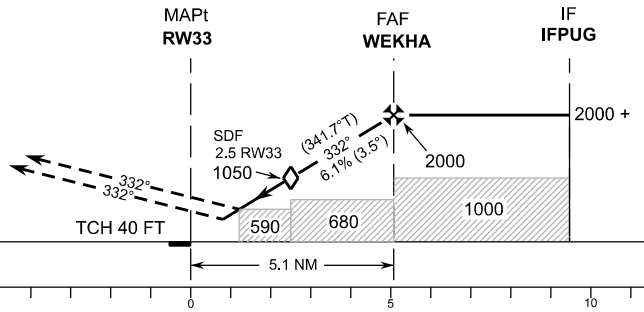
ELEV 75 FT
HEIGHTS RELATED TO
THR RWY 33 ELEV 75 FT

RNP RWY 33
REDSTONE AERO
PYHTÄÄ, FINLAND



TA 5000

MISSED APPROACH
Proceed FM RW33 via PR459 and PR460 to UXVIT
climbing to 2300. MAX IAS 180 KT.



OCA (H)	A	B	C
LPV	507 (432)	523 (448)	534 (459)
LNAV	550 (470)	570 (490)	590 (520)
NOTE: MNM DH 500 FT			
Circling	800 (720)		900 (820)

DIST FM THR	2.0 NM		3.0 NM		4.0 NM	
Altitude (Height)	820 (750)		1190 (1120)		1570 (1500)	
	kt	90	100	120	130	140
FAF - MAPt 5.1 NM	min:sec	3:23	3:03	2:32	2:20	2:10
Rate of descent	ft/min	560	620	750	810	870
Timing not authorized for defining the MAPt						

CHG: MA, OCA(H), MOCA, RADIO DATA. ADDN LPV, RASS. COR D300.

EFPR RNP RWY 33										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H33 PUQUS RNP APCH	005	IF	PUQUS	IAF	-				A2300+	K210-
	010	TF	IFPUG	IF	-	242° 251.7°T	5.0	RIGHT	A2000+	K180-
	020	TF	WEKHA	FAF	-	332° 341.7°T	4.4		A2000+	
	030	TF	RW33	MAPt	Y	332° 341.7°T	5.1			
	040	TF	PR459	MATF	-	332° 341.6°T	4.9	LEFT		K180-
	050	TF	PR460	MATF	-	241° 251.5°T	5.5	LEFT		K180-
	060	TF	UXVIT	MAHF	Y	146° 155.5°T	19.0		A2300	

EFPR RNP RWY 33										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H33 UXVIT RNP APCH	005	IF	UXVIT	IAF	-				A2300+	K180-
	010	TF	IFPUG	IF	-	010° 019.6°T	5.7	LEFT	A2000+	
	020	TF	WEKHA	FAF	-	332° 341.7°T	4.4		A2000+	
	030	TF	RW33	MAPt	Y	332° 341.7°T	5.1			
	040	TF	PR459	MATF	-	332° 341.6°T	4.9	LEFT		K180-
	050	TF	PR460	MATF	-	241° 251.5°T	5.5	LEFT		K180-
	060	TF	UXVIT	MAHF	Y	146° 155.5°T	19.0		A2300	

EFPR RNP RWY 33										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn direction	Constraints	
			ID	Type	Flyover				LVL	Speed
H33 AVHUB RNP APCH	005	IF	AVHUB	IAF	-				A2300+	K210-
	010	TF	IFPUG	IF	-	062° 071.7°T	5.0	LEFT	A2000+	K180-
	020	TF	WEKHA	FAF	-	332° 341.7°T	4.4		A2000+	
	030	TF	RW33	MAPt	Y	332° 341.7°T	5.1			
	040	TF	PR459	MATF	-	332° 341.6°T	4.9	LEFT		K180-
	050	TF	PR460	MATF	-	241° 251.5°T	5.5	LEFT		K180-
	060	TF	UXVIT	MAHF	Y	146° 155.5°T	19.0		A2300	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn direction	MAX IAS	MNM HLDG LVL	TIME	DIST NM
UXVIT	172.0°T	162°	Right	K180-	A2300	1 MIN	-

WPT COORD	
ID	**COORD**
RW33	602830.56N 0263547.37E
PUQUS	602105.99N 0265120.35E
IFPUG	601932.34N 0264147.08E
WEKHA	602342.30N 0263900.12E
UXVIT	601410.29N 0263756.18E
AVHUB	601758.00N 0263214.72E
PR459	603308.35N 0263240.66E
PR460	603123.46N 0262201.85E

FINAL APPROACH PARAMETERS			
LNAV Gradient	**Baro-VNAV**		**TCH**
	VPA	**MNM T**	
6.12 % (3.50°)	NIL		40 FT

SBAS DATA	
ID	**COORD**
Approach ID	E33A
Service provider	EGNOS
CRC remainder	CB7D0F9E
Channel number	86139
Data block	EFPR AD 2.15 - 1

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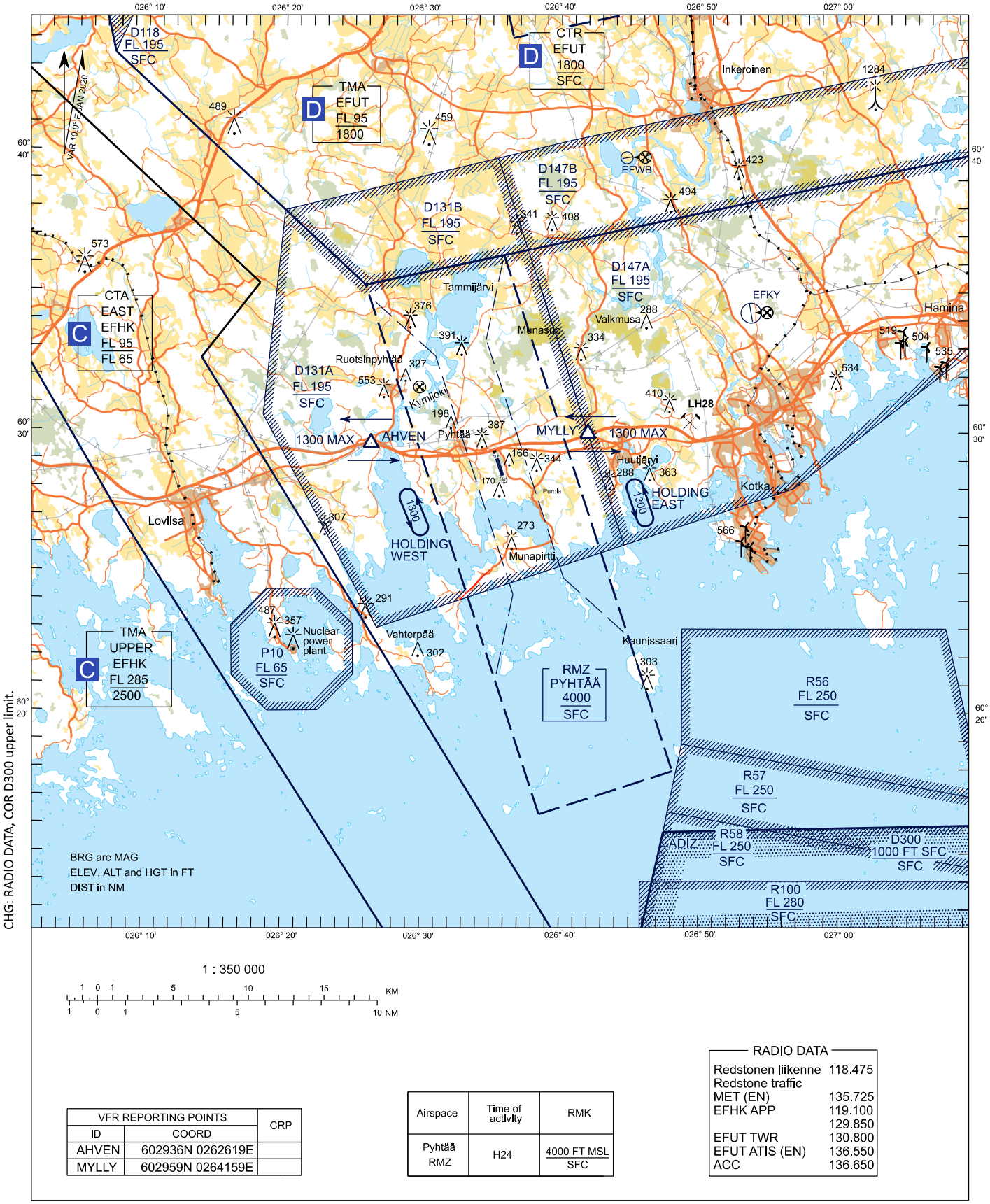
VISUAL
APPROACH CHART - ICAO

ELEV 75 FT

REDSTONE AERO
PYHTÄÄ, FINLAND



CHG: RADIO DATA, COR D300 upper limit.

VFR REPORTING POINTS		CRP
ID	COORD	
AHVEN	602936N 0262619E	
MYLLY	602959N 0264159E	

Airspace	Time of activity	RMK
Pyhtää RMZ	H24	4000 FT MSL / SFC

RADIO DATA	
Redstonen liikenne	118.475
Redstone traffic	
MET (EN)	135.725
EFHK APP	119.100
	129.850
EFUT TWR	130.800
EFUT ATIS (EN)	136.550
ACC	136.650

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FAS DATA BLOCK INFORMATION	EFPR RWY 15
DATA FIELD	**DATA**
OPERATION TYPE	0
SERVICE PROVIDER IDENTIFIER	1 (EGNOS)
AIRPORT IDENTIFIER	EFPR
RUNWAY	15
RUNWAY LETTER	0 (None)
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	E15A
LTP/FTP LATITUDE	602901.2315N
LTP/FTP LONGITUDE	0263526.7965E
LTP/FTP ELLIPSOIDAL HEIGHT (METERS)	36.9
FPAP LATITUDE	602809.1880N
FPAP LONGITUDE	0263601.6915E
THRESHOLD CROSSING HEIGHT (TCH)	40.0
TCH UNITS SELECTOR (METERS OR FEET)	0 (feet)
GLIDEPATH ANGLE (DEGREES)	3.50
COURSE WIDTH (METERS)	105.00
LENGTH OFFSET (METERS)	696
HAL (METERS)	40.0
VAL (METERS)	50.0
DATA BLOCK	
10121006050F0000013531055FEFF4199959690B71156969FE9E100190015E016457C8FA884374E7	
CRC REMAINDER	884374E7
DATA FIELD	**DATA**
ICAO CODE	EF
LTP ORTHOMETRIC HEIGHT (METERS)	21.6
CHANNEL NUMBER	95594

FAS DATA BLOCK INFORMATION	EFPR RWY 33
DATA FIELD	**DATA**
OPERATION TYPE	0
SERVICE PROVIDER IDENTIFIER	1 (EGNOS)
AIRPORT IDENTIFIER	EFPR
RUNWAY	33
RUNWAY LETTER	0 (None)
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	E33A
LTP/FTP LATITUDE	602830.5550N
LTP/FTP LONGITUDE	0263547.3690E
LTP/FTP ELLIPSOIDAL HEIGHT (METERS)	38.0
FPAP LATITUDE	602922.5975N
FPAP LONGITUDE	0263512.4610E
THRESHOLD CROSSING HEIGHT (TCH)	40.0
TCH UNITS SELECTOR (METERS OR FEET)	0 (feet)
GLIDEPATH ANGLE (DEGREES)	3.50
COURSE WIDTH (METERS)	105.00
LENGTH OFFSET (METERS)	696
HAL (METERS)	40.0
VAL (METERS)	50.0
DATA BLOCK	
10121006052100000133330 5B6FFF31952FA690B7C1595960148EFFE90015E016457C8FACB7D0F9E	
CRC REMAINDER	CB7D0F9E
DATA FIELD	**DATA**
ICAO CODE	EF
LTP ORTHOMETRIC HEIGHT (METERS)	22.7
CHANNEL NUMBER	86139

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