TEL:.....+47 67 03 00 00
E-mail:.....aim@avinor.no

AVINOR
NORWAY

AERONAUTICAL INFORMATION MANAGEMENT
P.O. BOX 150
NO-2061 GARDERMOEN

AIP AIRAC SUP 31/2025 EFF 12 JUN 2025

Publication date: 13 MAY 2025

ENAL - Nye RNP AR-prosedyrer for Ålesund lufthavn, Vigra

Erstatter AIP AIRAC SUP 08/2025

Vedlagt denne AIP SUP finnes RNP AR-prosedyrer til RWY 06 og RWY 24 ved Ålesund lufthavn, Vigra.

De vedlagte prosedyrene publiseres kun for kontrollflygings- og godkjenningsøyemed og vil i utgangspunktet ikke være tilgjengelig for vanlige operasjoner. Frem til prosedyrene er godkjente av Luftfartstilsynet er prosedyrene suspenderte.

Operatører bes om å ikke anmode lufttrafikktjenesten om å fly RNP AR-prosedyrene.

Vedlagt er følgende prosedyrer komplett med kart, anbefalt koding og liste med signifikante punkter:

1. RNP E RWY 06 (AR)
2. RNP N RWY 06 (AR)
3. RNP S RWY 06 (AR)
4. RNP E RWY 24 (AR)

- Vedlegg -

ENAL - New RNP AR procedures for Alesund airport, Vigra

Replaces AIP AIRAC SUP 08/2025

Attached to this AIP SUP are RNP AR procedures for RWY 06 and RWY 24 at Alesund airport, Vigra.

The attached procedures are intended solely for flight validation purposes. The procedures have not yet been approved by the Norwegian Civil Aviation Authority and are suspended from normal operational use.

Operators are asked not to request these procedures from Air Traffic Services.

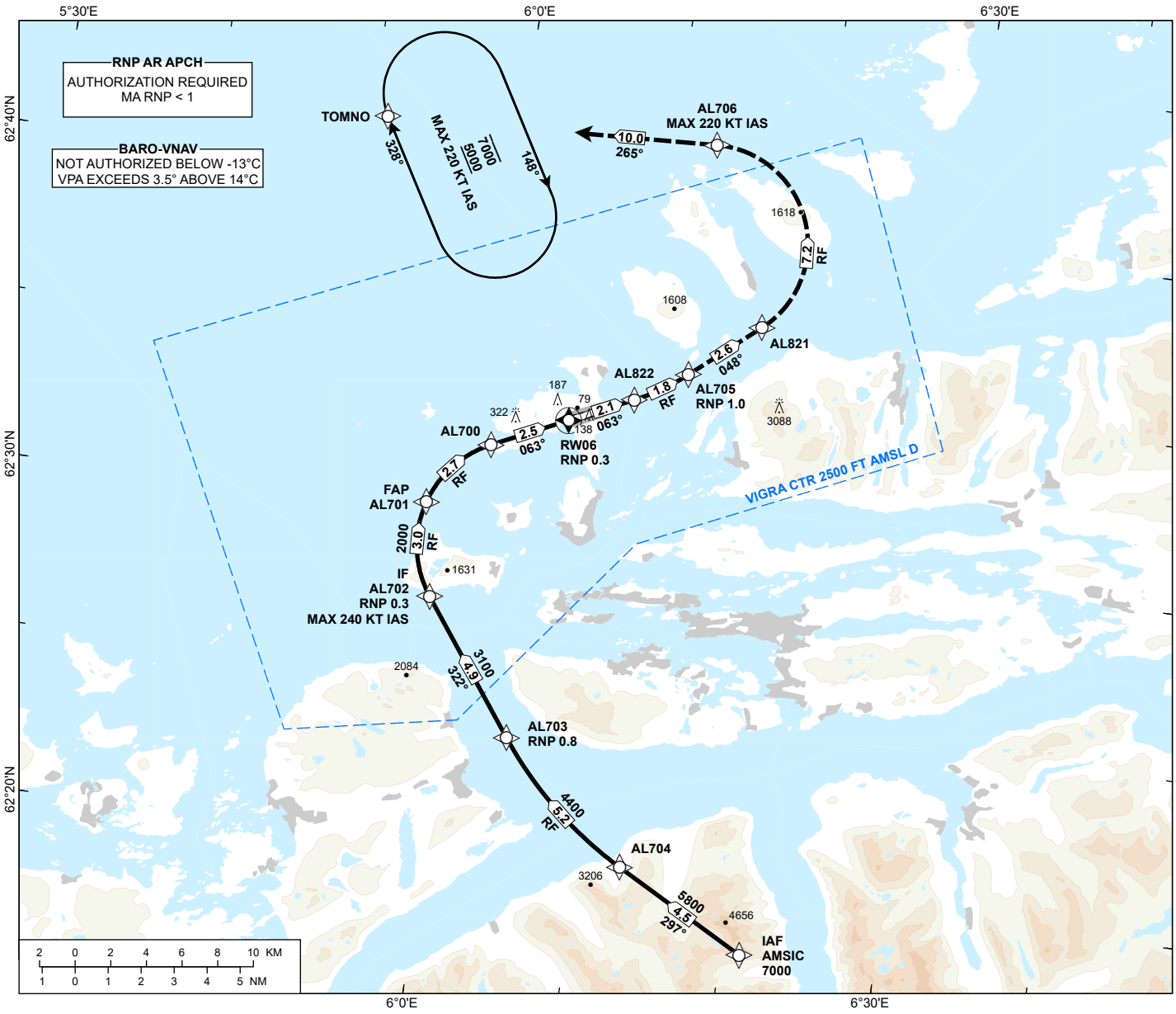
Attached er the following procedures complete with chart, recommended coding and significant points pages:

1. RNP E RWY 06 (AR)
2. RNP N RWY 06 (AR)
3. RNP S RWY 06 (AR)
4. RNP E RWY 24 (AR)

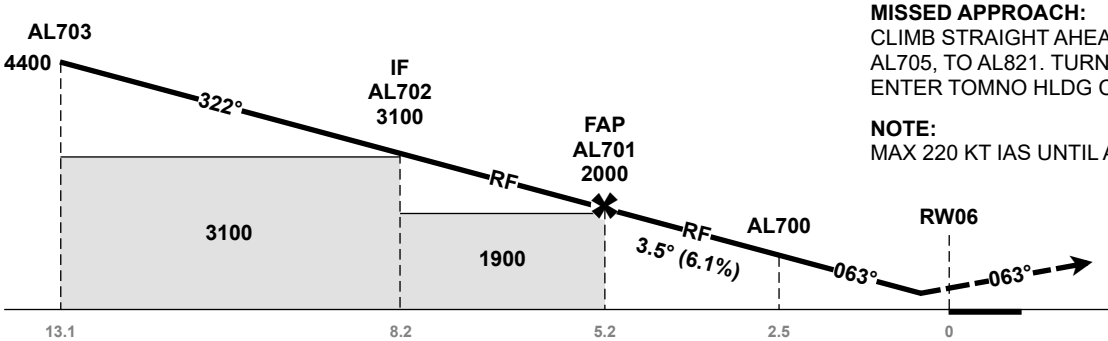
- Attachment -

INSTRUMENT APPROACH CHART - ICAO

6_4	ATIS: 128.655	AD ELEV: 70	ÅLESUND
	APP: 129.330	THR ELEV: 35	**VIGRA**
	TWR: 118.105	HGT RELATED TO THR 06	
		CIRCLING HGT RELATED TO AD ELEV	**RNP E RWY 06 (AR)**
		DIST IN NM. ELEV, ALT AND HGT IN FT	TRANSITION ALTITUDE 7000
MSA 25 NM ARP		SCALE 1:350 000 VAR 2° E (2020)	



DIST TO RW06	9	8	7	6	5	4	3	2
ALT (HGT)	-	-	-	-	-	-	-	-



MISSED APPROACH:
CLIMB STRAIGHT AHEAD TO AL822. TURN LEFT RF TO AL705, TO AL821. TURN LEFT RF TO AL706, TO TOMNO. ENTER TOMNO HLDG CLIMBING TO 5000.

NOTE:
MAX 220 KT IAS UNTIL AL706.

NOTE:
VPA (3.5°) NOT CONSISTENT WITH VASIS ANGLE (3.2°).

RDH 50

CAT OF ACFT		A	B	C	D
OCA (H) STRAIGHT- IN	RNP 0.3 (2.7 %*)	325 (290)	337 (302)	349 (314)	361 (326)
	RNP 0.19 (2.7 %*)	266 (231)	278 (243)	297 (262)	312 (277)
CIRCLING		750 (680)		2060 (1990)	

NOTE: CAT B AND D CIRCLING N OF AD ONLY. *MNM MISSED APCH CLIMB GRADIENT.

CHANGES: FREQUENCIES, EDITORIALS.

ATS AIRSPACE CLASSIFICATION: REF ENR 1.4

ENAL RNP E RWY 06 (AR) - RECOMMENDED CODING

SN	PD	WI	Fly-over	°M (°T)	MAG VAR	DIST (NM)	REC NAVAID	TD	ALT (FT)	Speed (KT)	VPA (°)/ TCH (FT)	ARC CENTRE RADIUS (NM)	RNP (NM)
010	IF	AMSIC	-	-	-2.0	-	-	-	A7000+	-	-	-	1.0
020	TF	AL704	-	-	-2.0	4.5	-	-	A5800+	-	-	-	1.0
030	RF	AL703	-	-	-2.0	5.2	-	R	A4400+	-	-	AL001 12.0	1.0
040	TF	AL702	-	-	-2.0	4.9	-	-	A3100+	K240-	-	-	0.8
050	RF	AL701	-	-	-2.0	3.0	-	R	A2000+	-	-	AL002 3.2	0.3
060	RF	AL700	-	-	-2.0	2.7	-	R	-	-	-3.5	AL002 3.2	0.3
070	TF	RW06	Y	-	-2.0	2.5	-	-	-	-	-3.5/50	-	0.3
080	TF	AL822	-	-	-2.0	2.1	-	-	-	-	-	-	0.3
090	RF	AL705	-	-	-2.0	1.8	-	L	-	-	-	AL003 6.9	0.3
100	TF	AL821	-	-	-2.0	2.6	-	-	-	-	-	-	1.0
110	RF	AL706	-	-	-2.0	7.2	-	L	-	K220-	-	AL004 3.0	1.0
120	TF	TOMNO	-	-	-2.0	10.0	-	-	-	-	-	-	1.0
130	HM	TOMNO	-	328 (329.5)	-2.0	1 MIN	-	R	A5000+	K220-	-	-	1.0

Note: Recommended coding is based on ARINC 424 and is provided solely to indicate which procedure design protection areas were used in the Instrument Flight Procedure Design process.

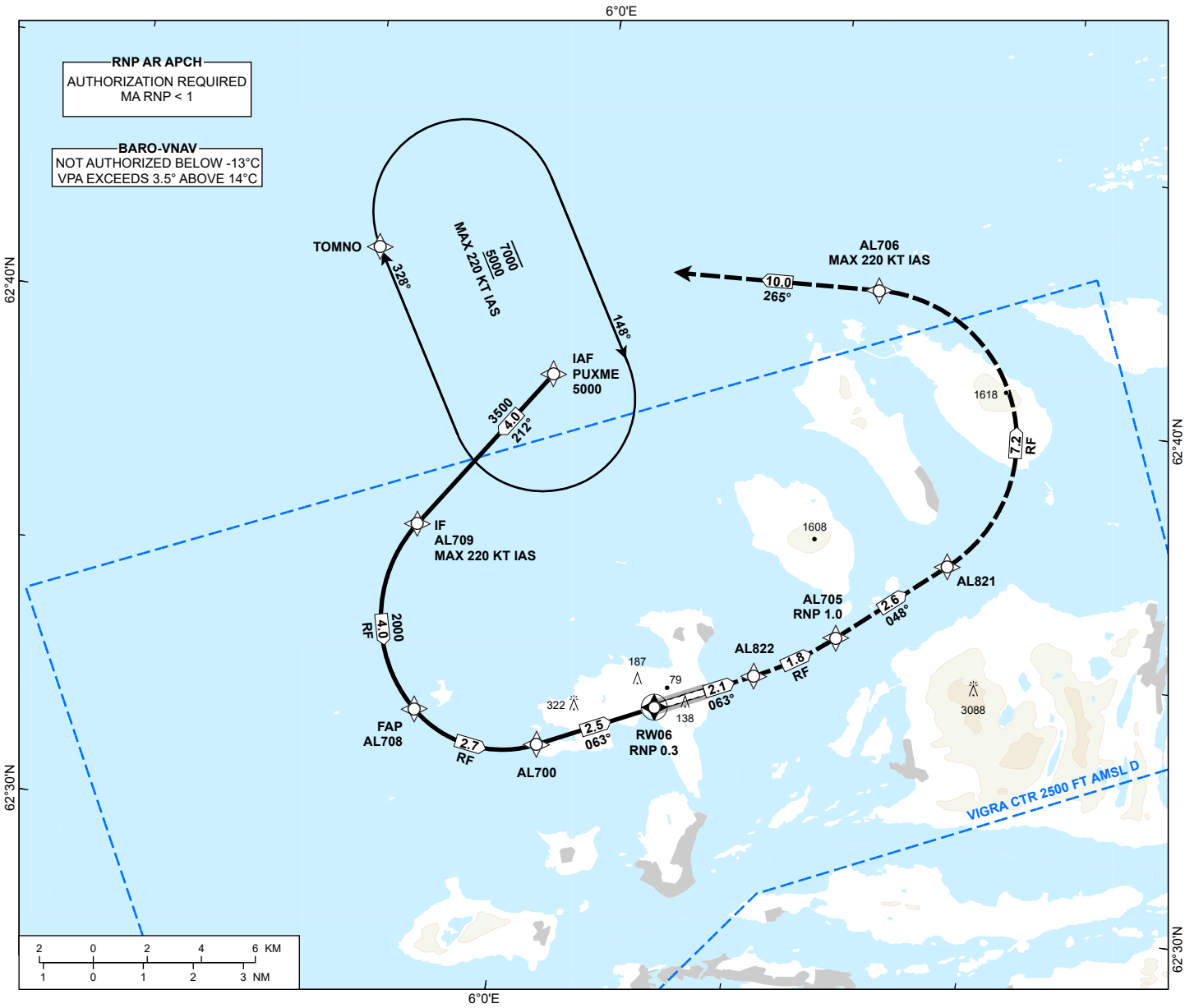
Note: Published OCA(H) values are obstacle clearance values. Decision heights (DH) below 250 FT shall not be used due to approach operation Type A limitations.

ENAL RNP E RWY 06 (AR) - SIGNIFICANT POINTS

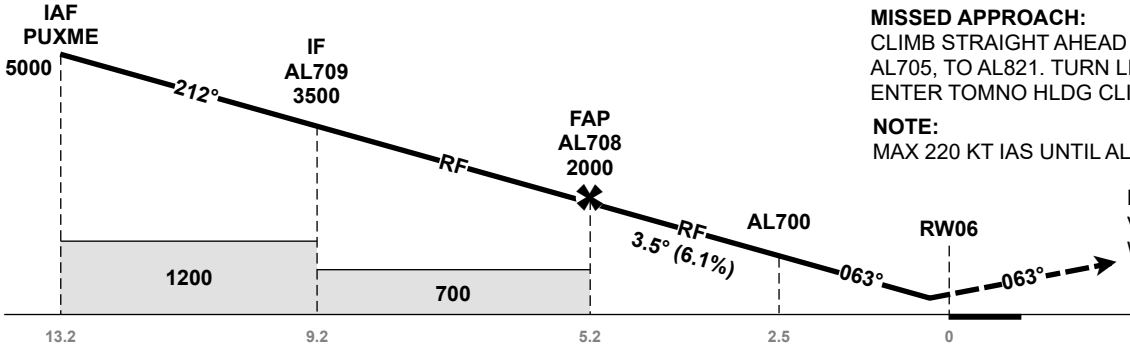
Name	Latitude	Longitude
AL001	623045.57N	0062509.93E
AL002	622927.29N	0060341.63E
AL003	624029.53N	0060312.25E
AL004	623913.94N	0061301.87E
AL700	623220.35N	0060044.59E
AL701	623021.63N	0055704.70E
AL702	622733.43N	0055809.14E
AL703	622339.71N	0060422.16E
AL704	622015.57N	0061247.66E
AL705	623515.20N	0061253.33E
AL706	624213.19N	0061242.89E
AL821	623657.19N	0061714.34E
AL822	623416.65N	0060936.60E
AMSIC	621806.98N	0062114.35E
TOMNO	624142.44N	0055103.01E

INSTRUMENT APPROACH CHART - ICAO

6_4	ATIS: 128.655	AD ELEV: 70	ÅLESUND
	APP: 129.330	THR ELEV: 35	**VIGRA**
	TWR: 118.105	HGT RELATED TO THR 06	**RNP N RWY 06 (AR)**
		CIRCLING HGT RELATED TO AD ELEV	
		DIST IN NM. ELEV, ALT AND HGT IN FT	TRANSITION ALTITUDE 7000
MSA 25 NM ARP		SCALE 1:230 000 VAR 2° E (2020)	



DIST TO RW06	9	8	7	6	5	4	3	2
ALT (HGT)	-	-	-	-	-	-	-	-



MISSED APPROACH:
CLIMB STRAIGHT AHEAD TO AL822. TURN LEFT RF TO AL705, TO AL821. TURN LEFT RF TO AL706, TO TOMNO. ENTER TOMNO HLDG CLIMBING TO 5000.

NOTE:
MAX 220 KT IAS UNTIL AL706.

NOTE:
VPA (3.5°) NOT CONSISTENT WITH VASIS ANGLE (3.2°).

RDH 50

CAT OF ACFT		A	B	C	D
OCA (H) STRAIGHT- IN	RNP 0.3 (2.7 %*)	325 (290)	337 (302)	349 (314)	361 (326)
	RNP 0.19 (2.7 %*)	266 (231)	278 (243)	297 (262)	312 (277)
CIRCLING		750 (680)		2060 (1990)	

NOTE: CAT B AND D CIRCLING N OF AD ONLY. *MNM MISSED APCH CLIMB GRADIENT.

CHANGES: FREQUENCIES, EDITORIALS.

ATS AIRSPACE CLASSIFICATION: REF ENR 1.4

ENAL RNP N RWY 06 (AR) - RECOMMENDED CODING

SN	PD	WI	Fly-over	°M (°T)	MAG VAR	DIST (NM)	REC NAVAID	TD	ALT (FT)	Speed (KT)	VPA (°)/ TCH (FT)	ARC CENTRE RADIUS (NM)	RNP (NM)
010	IF	PUXME	-	-	-2.0	-	-	-	A5000+	-	-	-	1.0
020	TF	AL709	-	-	-2.0	4.0	-	-	A3500+	K220-	-	-	1.0
030	RF	AL708	-	-	-2.0	4.0	-	L	A2000+	-	-	AL006 2.8	1.0
040	RF	AL700	-	-	-2.0	2.7	-	L	-	-	-3.5	AL007 2.3	0.3
050	TF	RW06	Y	-	-2.0	2.5	-	-	-	-	-3.5/50	-	0.3
060	TF	AL822	-	-	-2.0	2.1	-	-	-	-	-	-	0.3
070	RF	AL705	-	-	-2.0	1.8	-	L	-	-	-	AL003 6.9	0.3
080	TF	AL821	-	-	-2.0	2.6	-	-	-	-	-	-	1.0
090	RF	AL706	-	-	-2.0	7.2	-	L	-	K220-	-	AL004 3.0	1.0
100	TF	TOMNO	-	-	-2.0	10.0	-	-	-	-	-	-	1.0
110	HM	TOMNO	-	328 (329.5)	-2.0	1 MIN	-	R	A5000+	K220-	-	-	1.0

Note: Recommended coding is based on ARINC 424 and is provided solely to indicate which procedure design protection areas were used in the Instrument Flight Procedure Design process.

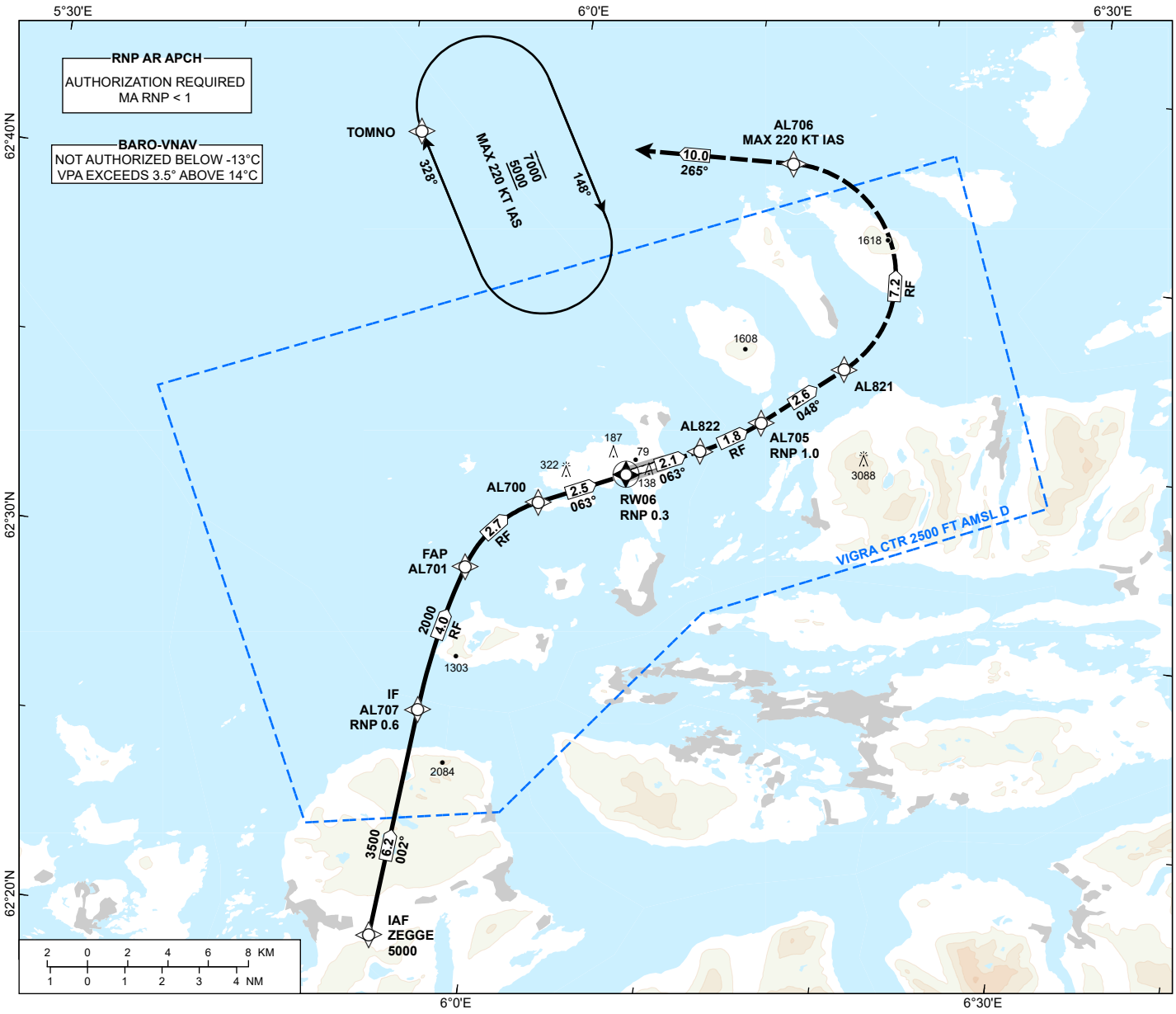
Note: Published OCA(H) values are obstacle clearance values. Decision heights (DH) below 250 FT shall not be used due to approach operation Type A limitations.

ENAL RNP N RWY 06 (AR) - SIGNIFICANT POINTS

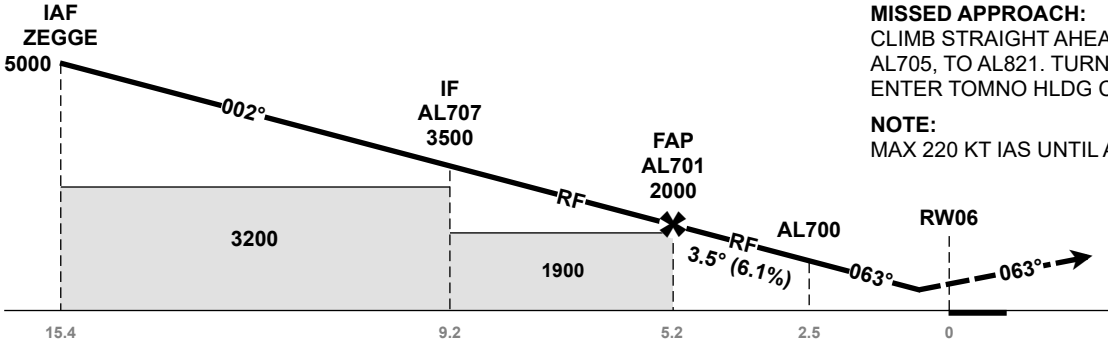
Name	Latitude	Longitude
AL003	624029.53N	0060312.25E
AL004	623913.94N	0061301.87E
AL006	623447.03N	0055920.11E
AL007	623424.69N	0055836.99E
AL700	623220.35N	0060044.59E
AL705	623515.20N	0061253.33E
AL706	624213.19N	0061242.89E
AL708	623241.88N	0055518.87E
AL709	623621.28N	0055419.75E
AL821	623657.19N	0061714.34E
AL822	623416.65N	0060936.60E
PUXME	623940.88N	0055914.84E
TOMNO	624142.44N	0055103.01E

INSTRUMENT APPROACH CHART - ICAO

6_4	ATIS: 128.655	AD ELEV: 70	ÅLESUND
	APP: 129.330	THR ELEV: 35	**VIGRA**
	TWR: 118.105	HGT RELATED TO THR 06	
		CIRCLING HGT RELATED TO AD ELEV	**RNP S RWY 06 (AR)**
		DIST IN NM. ELEV, ALT AND HGT IN FT	TRANSITION ALTITUDE 7000
MSA 25 NM ARP		SCALE 1:310 000 VAR 2° E (2020)	



DIST TO RW06	9	8	7	6	5	4	3	2
ALT (HGT)	-	-	-	-	-	-	-	-



MISSED APPROACH:
CLIMB STRAIGHT AHEAD TO AL822. TURN LEFT RF TO AL705, TO AL821. TURN LEFT RF TO AL706, TO TOMNO. ENTER TOMNO HLDG CLIMBING TO 5000.

NOTE:
MAX 220 KT IAS UNTIL AL706.

NOTE:
VPA (3.5°) NOT CONSISTENT WITH VASIS ANGLE (3.2°).

RDH 50

CAT OF ACFT		A	B	C	D
OCA (H) STRAIGHT- IN	RNP 0.3 (2.7 %*)	325 (290)	337 (302)	349 (314)	361 (326)
	RNP 0.19 (2.7 %*)	266 (231)	278 (243)	297 (262)	312 (277)
CIRCLING		750 (680)		2060 (1990)	

NOTE: CAT B AND D CIRCLING N OF AD ONLY. *MNM MISSED APCH CLIMB GRADIENT.

CHANGES: FREQUENCIES, EDITORIALS.

ATS AIRSPACE CLASSIFICATION: REF ENR 1.4

ENAL RNP S RWY 06 (AR) - RECOMMENDED CODING

SN	PD	WI	Fly-over	°M (°T)	MAG VAR	DIST (NM)	REC NAVAID	TD	ALT (FT)	Speed (KT)	VPA (°)/ TCH (FT)	ARC CENTRE RADIUS (NM)	RNP (NM)
010	IF	ZEGGE	-	-	-2.0	-	-	-	A5000+	-	-	-	1.0
020	TF	AL707	-	-	-2.0	6.2	-	-	A3500+	-	-	-	1.0
030	RF	AL701	-	-	-2.0	4.0	-	R	A2000+	-	-	AL005 19.0	0.6
040	RF	AL700	-	-	-2.0	2.7	-	R	-	-	-3.5	AL002 3.2	0.3
050	TF	RW06	Y	-	-2.0	2.5	-	-	-	-	-3.5/50	-	0.3
060	TF	AL822	-	-	-2.0	2.1	-	-	-	-	-	-	0.3
070	RF	AL705	-	-	-2.0	1.8	-	L	-	-	-	AL003 6.9	0.3
080	TF	AL821	-	-	-2.0	2.6	-	-	-	-	-	-	1.0
090	RF	AL706	-	-	-2.0	7.2	-	L	-	K220-	-	AL004 3.0	1.0
100	TF	TOMNO	-	-	-2.0	10.0	-	-	-	-	-	-	1.0
110	HM	TOMNO	-	328 (329.5)	-2.0	1 MIN	-	R	A5000+	K220-	-	-	1.0

Note: Recommended coding is based on ARINC 424 and is provided solely to indicate which procedure design protection areas were used in the Instrument Flight Procedure Design process.

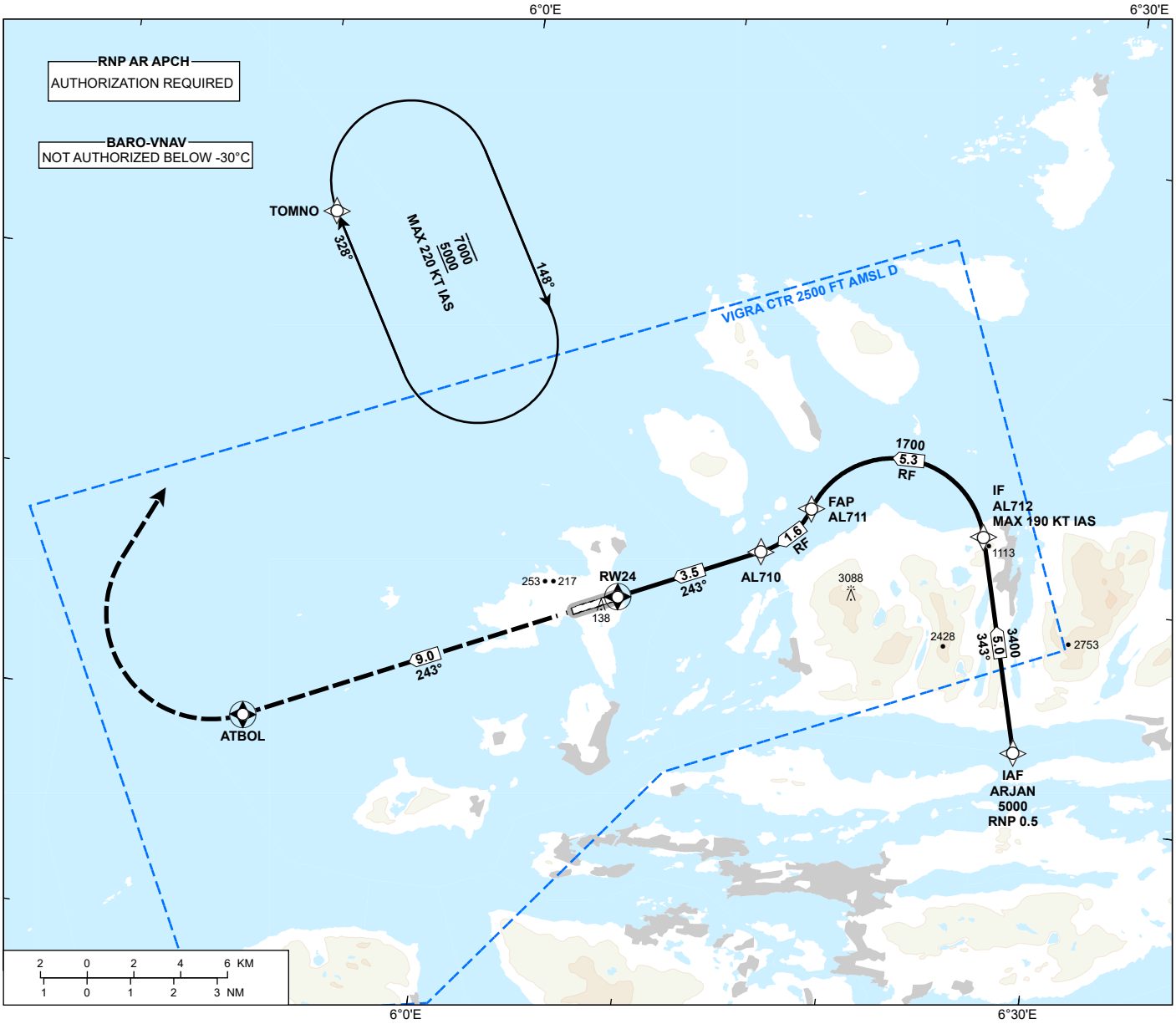
Note: Published OCA(H) values are obstacle clearance values. Decision heights (DH) below 250 FT shall not be used due to approach operation Type A limitations.

ENAL RNP S RWY 06 (AR) - SIGNIFICANT POINTS

Name	Latitude	Longitude
AL002	622927.29N	0060341.63E
AL003	624029.53N	0060312.25E
AL004	623913.94N	0061301.87E
AL005	622454.46N	0063615.54E
AL700	623220.35N	0060044.59E
AL701	623021.63N	0055704.70E
AL705	623515.20N	0061253.33E
AL706	624213.19N	0061242.89E
AL707	622624.54N	0055531.22E
AL821	623657.19N	0061714.34E
AL822	623416.65N	0060936.60E
TOMNO	624142.44N	0055103.01E
ZEGGE	622016.36N	0055432.43E

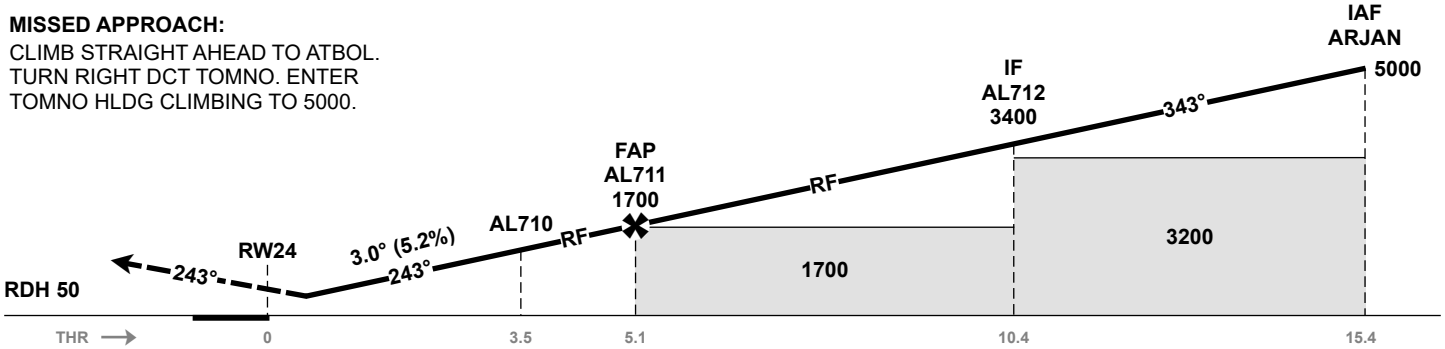
INSTRUMENT APPROACH CHART - ICAO

6_4	ATIS: 128.655	AD ELEV: 70	ÅLESUND
	APP: 129.330	THR ELEV: 49	**VIGRA**
	TWR: 118.105	HGT RELATED TO THR 24	**RNP E RWY 24 (AR)**
		CIRCLING HGT RELATED TO AD ELEV	
		DIST IN NM. ELEV, ALT AND HGT IN FT	TRANSITION ALTITUDE 7000
MSA 25 NM ARP		SCALE 1:270 000 VAR 2° E (2020)	



DIST TO RW24	9	8	7	6	5	4	3	2
ALT (HGT)	-	-	-	-	-	-	-	-

MISSED APPROACH:
CLIMB STRAIGHT AHEAD TO ATBOL.
TURN RIGHT DCT TOMNO. ENTER
TOMNO HLDG CLIMBING TO 5000.



CAT OF ACFT		A	B	C	D
OCA (H) STRAIGHT- IN	RNP 0.3 (2.5 %*)	281 (232)	301 (252)	321 (272)	339 (290)
	RNP 0.3 (4.2 %*)	270 (221)	279 (230)	289 (240)	299 (250)
CIRCLING		750 (680)		2060 (1990)	

NOTE: CAT B AND D CIRCLING N OF AD ONLY. *MNM MISSED APCH CLIMB GRADIENT.

CHANGES: FREQUENCIES, EDITORIALS.

ATS AIRSPACE CLASSIFICATION: REF ENR 1.4

ENAL RNP E RWY 24 (AR) - RECOMMENDED CODING

SN	PD	WI	Fly-over	°M (°T)	MAG VAR	DIST (NM)	REC NAVAID	TD	ALT (FT)	Speed (KT)	VPA (°)/ TCH (FT)	ARC CENTRE RADIUS (NM)	RNP (NM)
010	IF	ARJAN	-	-	-2.0	-	-	-	A5000+	-	-	-	0.5
020	TF	AL712	-	-	-2.0	5.0	-	-	A3400+	K190-	-	-	0.5
030	RF	AL711	-	-	-2.0	5.3	-	L	A1700+	-	-	AL008 2.1	0.5
040	RF	AL710	-	-	-2.0	1.6	-	R	-	-	-3.0	AL009 1.96	0.3
050	TF	RW24	Y	-	-2.0	3.5	-	-	-	-	-3.0/50	-	0.3
060	TF	ATBOL	Y	-	-2.0	9.0	-	-	-	-	-	-	1.0
070	DF	TOMNO	-	-	-2.0	-	-	R	-	-	-	-	1.0
080	HM	TOMNO	-	328 (329.5)	-2.0	1 MIN	-	R	A5000+	K220-	-	-	1.0

Note: Recommended coding is based on ARINC 424 and is provided solely to indicate which procedure design protection areas were used in the Instrument Flight Procedure Design process.

Note: Published OCA(H) values are obstacle clearance values. Decision heights (DH) below 250 FT shall not be used due to approach operation Type A limitations.

ENAL RNP E RWY 24 (AR) - SIGNIFICANT POINTS

Name	Latitude	Longitude
AL008	623546.06N	0062050.77E
AL009	623704.44N	0061231.86E
AL710	623518.45N	0061420.70E
AL711	623626.66N	0061632.80E
AL712	623619.45N	0062513.54E
ARJAN	623129.64N	0062806.16E
ATBOL	622957.81N	0054957.47E
TOMNO	624142.44N	0055103.01E