

24-APR-2014

**KNO-WIMM**

1-10

AOI

AOI

**GENERAL****ATS Hours**

H24

**Airport Information**

**RFF:** CAT 9  
**Fuel:** O/R  
**PCN:** RWY 05/23: 71/F/B/X/T  
**Customs:** AVBL

**Operation****Standard Taxi Routes**

LDG RWY 05

Exit Gate	LDG routing number	Taxi routing
C	Follow V1	Exit via TWY C - B - T - U into APN V/W
C	Follow Y1	Exit via TWY C - B - T - U - S - Z into APN Y/W
D	Follow V2	Exit via TWY D - A1 - T - U into APN V/W
D	Follow Y2	Exit via TWY D - A1 - T - U - S - Z into APN Y/W
E	Follow V3	Exit via TWY E - A - A1 - T - U into APN V/W
E	Follow Y3	Exit via TWY E - A - A1 - T - U - S - Z into APN Y/W

LDG RWY 23

Exit Gate	LDG routing number	Taxi routing
G	Follow V4	Exit via TWY G - A - A2 - S - U into APN V/W
G	Follow Y4	Exit via TWY G - A - A2 - S - Z into APN Y/W
H	Follow V5	Exit via TWY H - A - A2 - S - U into APN V/W
H	Follow Y5	Exit via TWY H - A - A2 - S - Z into APN Y/W

TKOF RWY 05

Gate	TKOF routing number	Taxi routing
U	U1	From APN V/W exit via TWY U - S - B - A5 - A to HLDG TWY H
Z	Z1	From APN Y/W exit via TWY Z - S - B - A5 - A to HLDG TWY H

TKOF RWY 23

Gate	TKOF routing number	Taxi routing
U	U2	From APN V/W exit via TWY U - T - B to HLDG TWY C
Z	Z2	From APN Y/W exit via TWY Z - S - U - T - B to HLDG TWY C

**Taxi**

ACFT with wheelbase B747 note that oversteering may be required when manoeuvring round TWY turns.

Code letter E ACFT:

- Judgemental oversteering is required when manoeuvring round TWY turns.
- Use MNM thrust when turning from APN W to APN V or APN Y.

24-APR-2014

**KNO-WIMM**

1-20

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**GENERAL****Fuel Dumping Area**

AMASE holding area at R340 D40 from DES VOR/DME.

Procedure holding: Right-hand circuit with 1min leg at 6000ft with 220KT, entry HDG 180°.

Inform ATC if fuel dumping is required. After fuel dumping request to return to AD.

**ARRIVAL****Communication****COM Failure**

If unable to land within 30min of the time descent should have started (i.e. EAT or ETA if no EAT has been acknowledged), proceed to cross fix holding area at 4000ft, then via R461 at FL170 if Kuala Lumpur is the nominated alternate or via W12 at FL210 if Pekanbaru is the nominated alternate or via G468 at FL150 if Penang is the nominated alternate or via N563 at FL230 if Singapore is the nominated alternate otherwise proceed at the planned FL to other nominated alternate.

**DEPARTURE****Take-off Minima**

RWY		05/23	
All ACFT	ft - m/km	0 - 400V	-

**Communication****COM Failure for Medium and Heavy ACFT****RWY 05**

Proceed to BONAR holding area, climb to the last assigned ALT. At BONAR, climb/descend to 7000ft. Hold at BONAR for 4min. Leave BONAR and proceed to AMASE holding area for fuel dumping and maintain 7000ft. After fuel dumping proceed to DES VOR/DME and maintain 7000ft. At D17 DES VOR/DME follow arc to BONAR and descend for IAP.

**RWY 23**

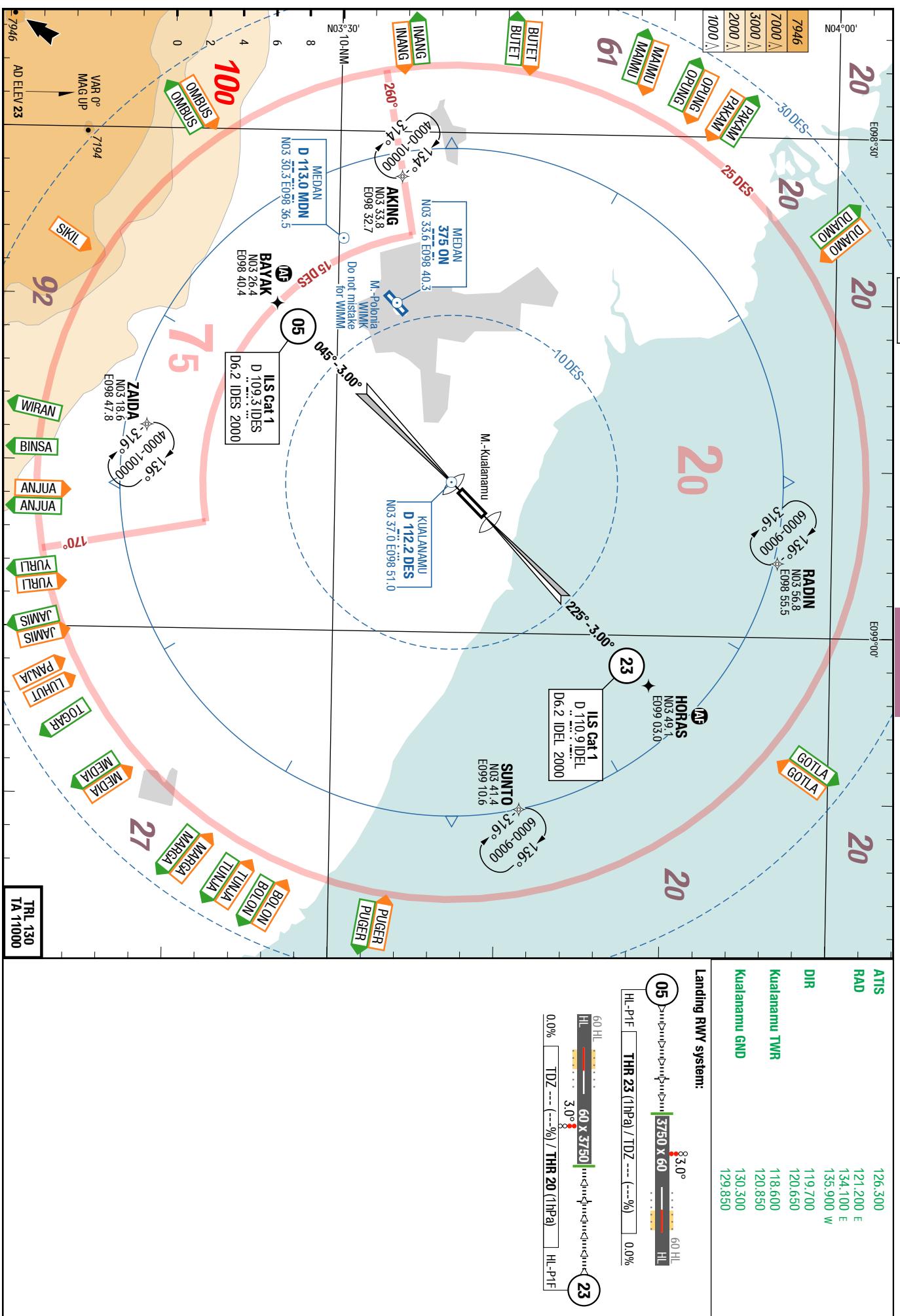
Proceed to NAGAH holding point and climb to the last assigned ALT. At NAGAH climb/descend to 7000ft. Hold at NAGAH for 4min, then proceed to AMASE holding area for fuel dumping and maintain 7000ft. After fuel dumping proceed to DES VOR/DME. At D20 DES VOR/DME follow arc to NAGAH holding and maintain 7000ft. At NAGAH descend for IAP.

ATC action is based on the assumption that the ACFT will take a MNM of 10min to dump fuel. An ACFT therefore should not leave earlier than 10min after arrival at AMASE holding area even if fuel dump is completed at a shorter time or if dumping is not necessary or possible unless circumstances require an immediate return.

**Effective 19-JUL-2018**

KNO-WIMM

**Indonesia Medan Kualanamu**  
AFC   
**Kualanamu Medan Indonesia**  
AFC 



ATIS 126.300  
 Kualanamu TWR 118.600  
 120.850  
 Kualanamu GND 130.300  
 129.850

E098°52'

E098°53'

3-20

Changes: FREQ, OFU, VAR, Declared distances

RWY	TORA	ASDA	TODA
05	3750	3810	4050
23	3750	3810	4050

3750 X 60

FIRE STATION

05

045°

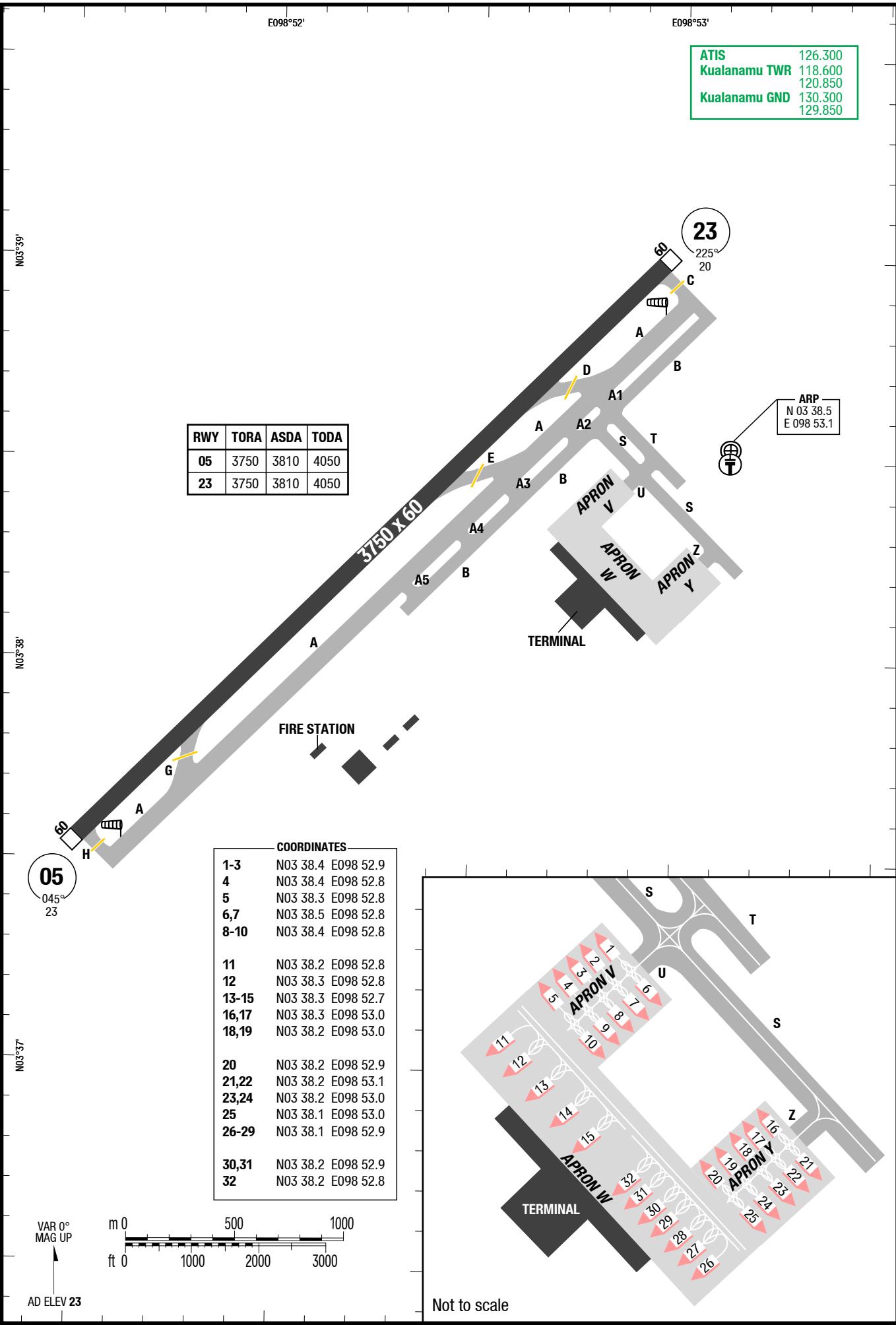
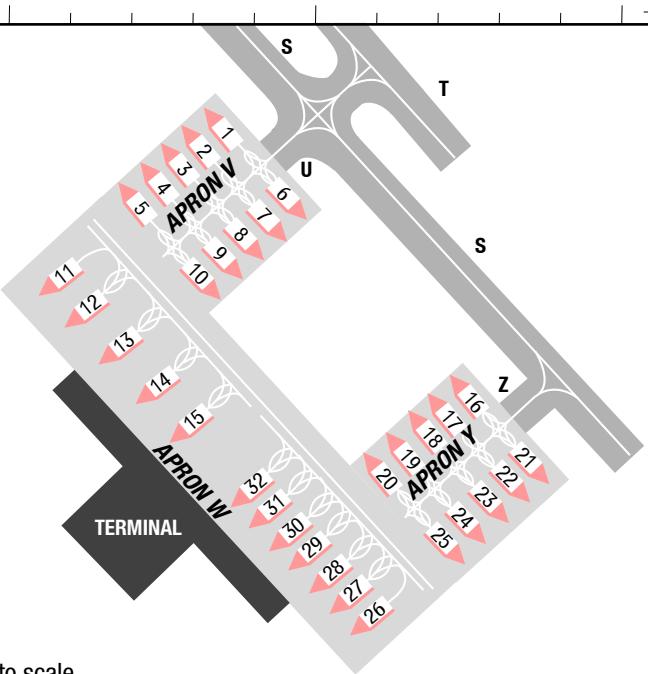
23

COORDINATES	
1-3	N03 38.4 E098 52.9
4	N03 38.4 E098 52.8
5	N03 38.3 E098 52.8
6,7	N03 38.5 E098 52.8
8-10	N03 38.4 E098 52.8
11	N03 38.2 E098 52.8
12	N03 38.3 E098 52.8
13-15	N03 38.3 E098 52.7
16,17	N03 38.3 E098 53.0
18,19	N03 38.2 E098 53.0
20	N03 38.2 E098 52.9
21,22	N03 38.2 E098 53.1
23,24	N03 38.2 E098 53.0
25	N03 38.1 E098 53.0
26-29	N03 38.1 E098 52.9
30,31	N03 38.2 E098 52.9
32	N03 38.2 E098 52.8

m 0 500 1000  
 ft 0 1000 2000 3000

AD ELEV 23

Not to scale



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KNO-WIMM

Indonesia Medan Kualanamu  
Taxi Route RWY 05

AGC  
AGC

Kualanamu Medan Indonesia  
Taxi Route RWY 23

Changes: FREQ, VAR, QFL, Declared distances

E098°52'

E098°53'

ATIS	126.300
Kualanamu TWR	118.600
	120.850
Kualanamu GND	130.300
	129.850

3-30

RWY	TORA	ASDA	TODA
05	3750	3810	4050
23	3750	3810	4050

3750 X 60

FIRE STATION

05

045°  
23

COORDINATES

1-3	N03 38.4 E098 52.9
4	N03 38.4 E098 52.8
5	N03 38.3 E098 52.8
6,7	N03 38.5 E098 52.8
8-10	N03 38.4 E098 52.8
11	N03 38.2 E098 52.8
12	N03 38.3 E098 52.8
13-15	N03 38.3 E098 52.7
16,17	N03 38.3 E098 53.0
18,19	N03 38.2 E098 53.0
20	N03 38.2 E098 52.9
21,22	N03 38.2 E098 53.1
23,24	N03 38.2 E098 53.0
25	N03 38.1 E098 53.0
26-29	N03 38.1 E098 52.9
30,31	N03 38.2 E098 52.9
32	N03 38.2 E098 52.8

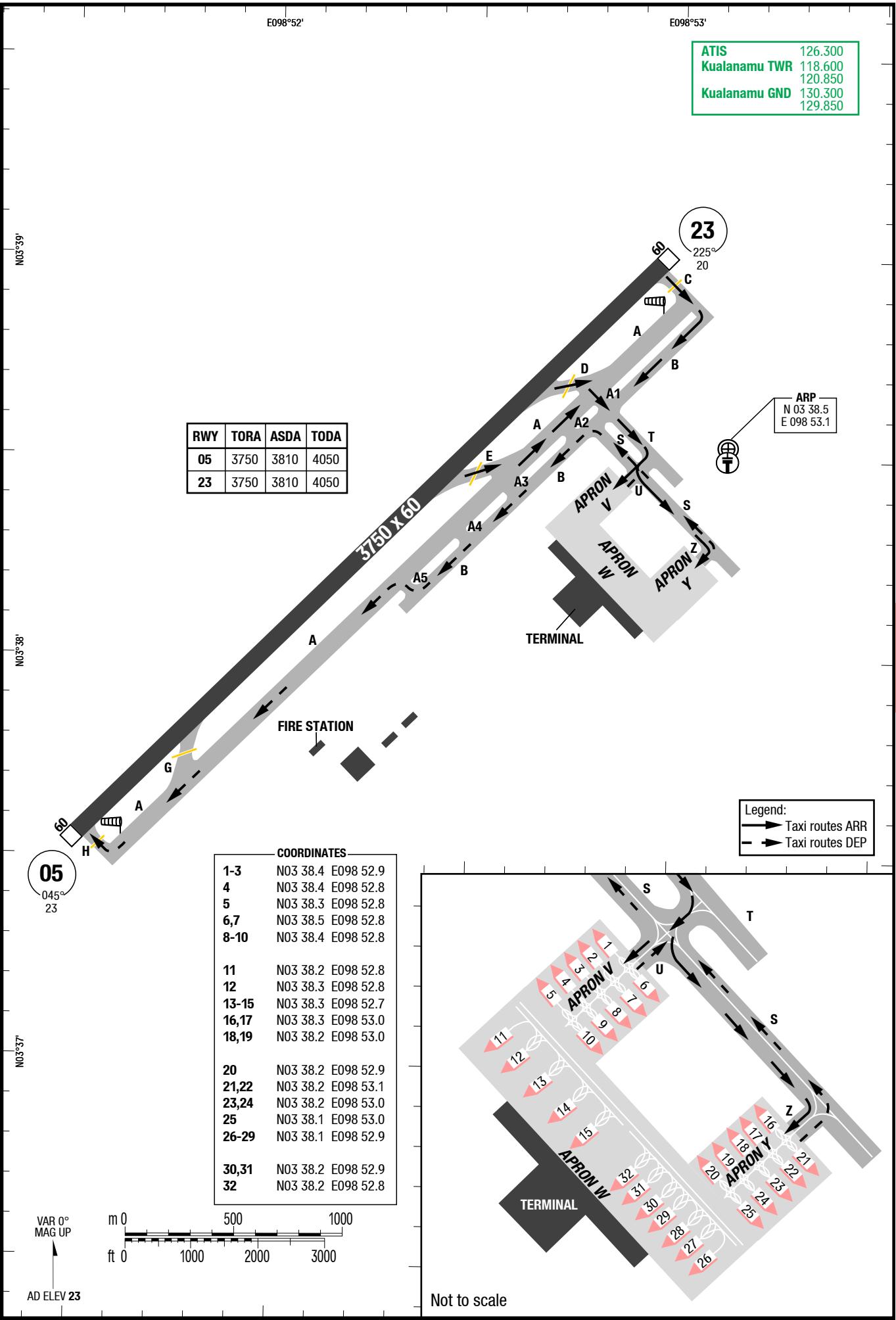
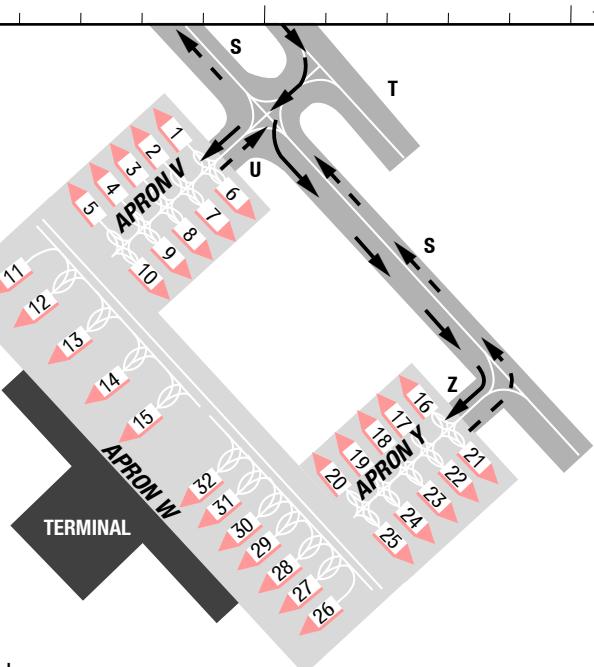
MAG UP

m 0 500 1000 2000 3000

AD ELEV 23

Not to scale

Legend:  
→ Taxi routes ARR  
→ Taxi routes DEP





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12-JUL-2018

KNO-WIMM

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[RNAV SIDs RWY 23]

4-10

RNAV SIDs RWY 05

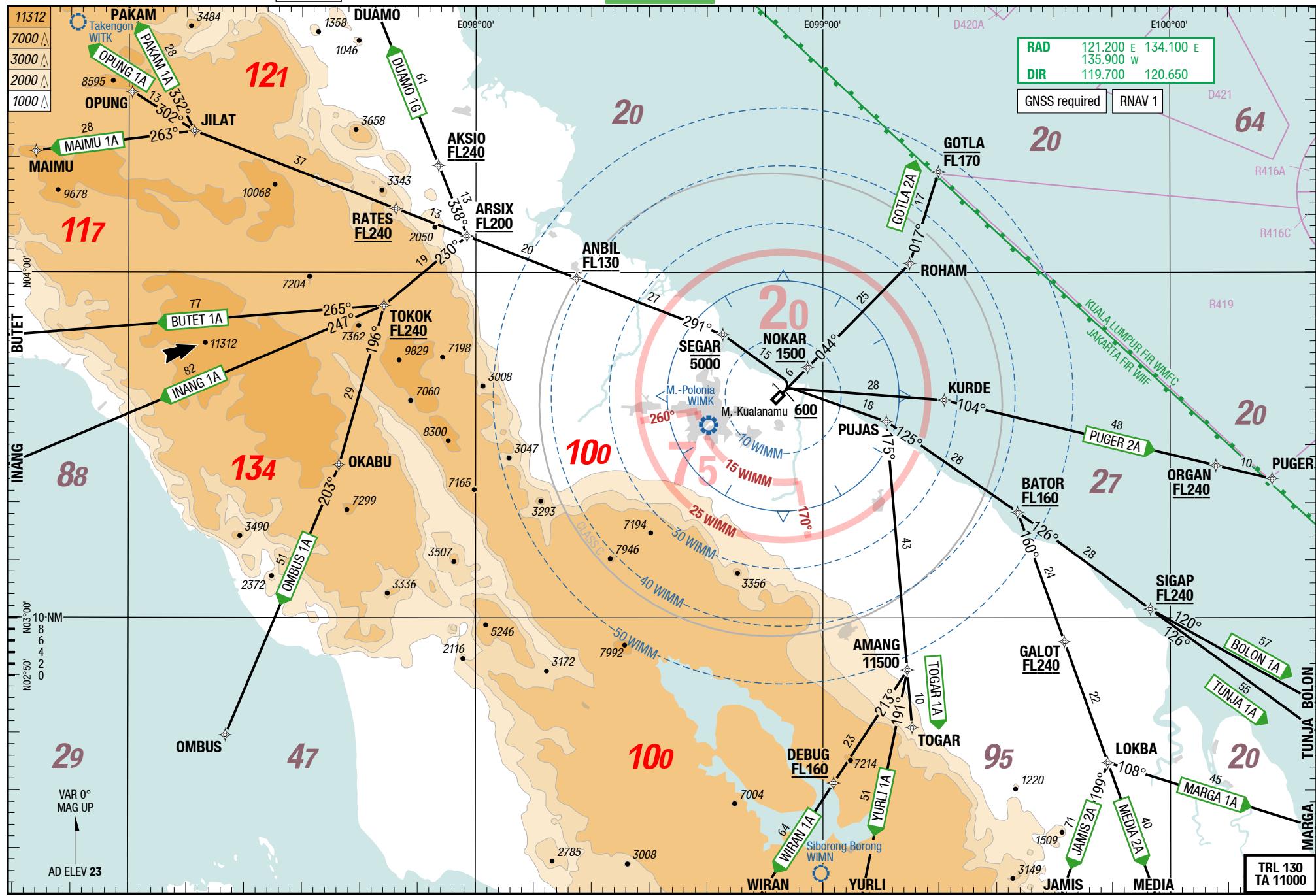
SID

SID

Kualanamu Medan Indonesia

[RNAV SIDs RWY 23]

RNAV SIDs RWY 05



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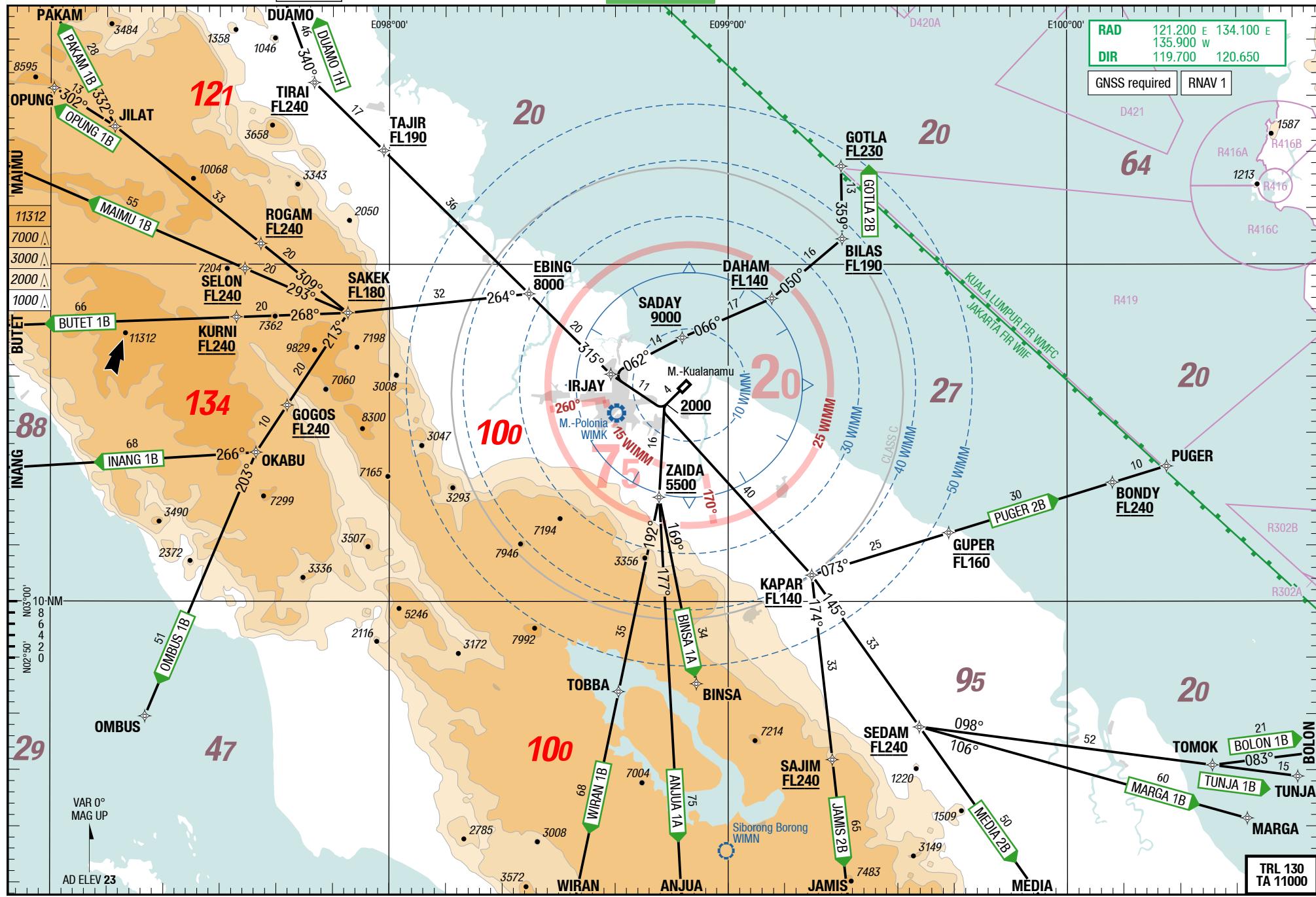
4-20

RNAV SIDs RWY 23

SID

SID

RNAV SIDs RWY 23



Changes: new

## KNO-WIMM

5-10

## RNAV SIDs RWY 05

**BOLON 1A / BUTET 1A / DUAMO 1G / GOTLA 2A / INANG 1A / JAMIS 2A / MAIMU 1A / MARGA 1A / MEDIA 2A / OMBUS 1A / OPUNG 1A**

**RWY 05 (045°)**

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 05</b>	
<b>BOLON 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - BATOR - SIGAP - BOLON	BATOR MNM <b>FL160</b> SIGAP MNM <b>FL240</b>
<b>BUTET 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - TOKOK - BUTET	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> TOKOK MNM <b>FL240</b>
<b>DUAMO 1G</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - AKSIO - DUAMO	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> AKSIO MNM <b>FL240</b>
<b>GOTLA 2A</b> 4.0%	H045° [A600+] - DCT NOKAR - ROHAM - GOTLA	NOKAR MNM <b>1500</b> GOTLA MAX <b>FL170</b>
<b>INANG 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - TOKOK - INANG	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> TOKOK MNM <b>FL240</b>
<b>JAMIS 2A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - BATOR - GALOT - LOKBA - JAMIS	BATOR MNM <b>FL160</b> GALOT MNM <b>FL240</b>
<b>MAIMU 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - RATES - JILAT - MAIMU	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> RATES MNM <b>FL240</b>
<b>MARGA 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - BATOR - GALOT - LOKBA - MARGA	BATOR MNM <b>FL160</b> GALOT MNM <b>FL240</b>
<b>MEDIA 2A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - BATOR - GALOT - LOKBA - MEDIA	BATOR MNM <b>FL160</b> GALOT MNM <b>FL240</b>
<b>OMBUS 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - TOKOK - OKABU - OMBUS	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> TOKOK MNM <b>FL240</b>
<b>OPUNG 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - RATES - JILAT - OPUNG	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> RATES MNM <b>FL240</b>

KNO-WIMM

5-20

RNAV SIDs RWY 05

PAKAM 1A / PUGER 2A / TOGAR 1A / TUNJA 1A / WIRAN 1A / YURLI 1A

RWY 05 (045°)

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100

DESIGNATOR	ROUTING	ALTITUDES
	Runway 05	
<b>PAKAM 1A</b> 4.0%	H045° [A600+ ;L] - DCT SEGAR - ANBIL - ARSIX - RATES - JILAT - PAKAM	SEGAR MAX <b>5000</b> ANBIL MNM <b>FL130</b> ARSIX MNM <b>FL200</b> RATES MNM <b>FL240</b>
<b>PUGER 2A</b> 4.0%	H045° [A600+ ;R] - DCT KURDE - ORGAN - PUGER	ORGAN MNM <b>FL240</b>
<b>TOGAR 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - AMANG - TOGAR	AMANG MAX <b>11500</b>
<b>TUNJA 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - BATOR - SIGAP - TUNJA	BATOR MNM <b>FL160</b> SIGAP MNM <b>FL240</b>
<b>WIRAN 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - AMANG - DEBUG - WIRAN	AMANG MAX <b>11500</b> DEBUG MNM <b>FL160</b>
<b>YURLI 1A</b> 4.0%	H045° [A600+ ;R] - DCT PUJAS - AMANG - YURLI	AMANG MAX <b>11500</b>

## KNO-WIMM

5-30

## RNAV SIDs RWY 23

**ANJUA 1A / BINSA 1A / BOLON 1B / BUTET 1B / DUAMO 1H / GOTLA 2B / INANG 1B / JAMIS 2B / MAIMU 1B / MARGA 1B / MEDIA 2B / OMBUS 1B / OPUNG 1B**  
**RWY 23 (225°)**

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 23</b>	
<b>ANJUA 1A</b> 4.0%	H225° [A2000+ ;L] - DCT ZAIDA - ANJUA	ZAIDA MNM <b>5500</b>
<b>BINSA 1A</b> 4.0%	H225° [A2000+ ;L] - DCT ZAIDA - BINSA	ZAIDA MNM <b>5500</b>
<b>BOLON 1B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - SEDAM - TOMOK - BOLON	KAPAR MNM <b>FL140</b> SEDAM MNM <b>FL240</b>
<b>BUTET 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - KURNI - BUTET	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> KURNI MNM <b>FL240</b>
<b>DUAMO 1H</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - TAJIR - TIRAI - DUAMO	EBING MAX <b>8000</b> TAJIR MNM <b>FL190</b> TIRAI MNM <b>FL240</b>
<b>GOTLA 2B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - SADAY - DAHAM - BILAS - GOTLA	SADAY MNM <b>9000</b> DAHAM MNM <b>FL140</b> BILAS MNM <b>FL190</b> GOTLA MNM <b>FL230</b>
<b>INANG 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - GOGOS - OKABU - INANG	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> GOGOS MNM <b>FL240</b>
<b>JAMIS 2B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - SAJIM - JAMIS	KAPAR MNM <b>FL140</b> SAJIM MNM <b>FL240</b>
<b>MAIMU 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - SELON - MAIMU	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> SELON MNM <b>FL240</b>
<b>MARGA 1B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - SEDAM - MARGA	KAPAR MNM <b>FL140</b> SEDAM MNM <b>FL240</b>
<b>MEDIA 2B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - SEDAM - MEDIA	KAPAR MNM <b>FL140</b> SEDAM MNM <b>FL240</b>
<b>OMBUS 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - GOGOS - OKABU - OMBUS	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> GOGOS MNM <b>FL240</b>
<b>OPUNG 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - ROGAM - JILAT - OPUNG	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> ROGAM MNM <b>FL240</b>

KNO-WIMM

5-40

RNAV SIDs RWY 23

SIDPT

PAKAM 1B / PUGER 2B / TUNJA 1B / WIRAN 1B

RWY 23 (225°)

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100

DESIGNATOR	ROUTING	ALTITUDES
	Runway 23	
<b>PAKAM 1B</b> 4.0%	H225° [A2000+ ;R] - DCT IRJAY - EBING - SAKEK - ROGAM - JILAT - PAKAM	EBING MAX <b>8000</b> SAKEK MNM <b>FL180</b> ROGAM MMM <b>FL240</b>
<b>PUGER 2B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - GUPER - BONDY - PUGER	KAPAR MNM <b>FL140</b> GUPER MAX <b>FL160</b> BONDY MNM <b>FL240</b>
<b>TUNJA 1B</b> 4.0%	H225° [A2000+ ;L] - DCT KAPAR - SEDAM - TOMOK - TUNJA	KAPAR MNM <b>FL140</b> SEDAM MNM <b>FL240</b>
<b>WIRAN 1B</b> 4.0%	H225° [A2000+ ;L] - DCT ZAIDA - TOBBA - WIRAN	ZAIDA MNM <b>5500</b>

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12-JUL-2018

KNO-WIMM

Indonesia Medan Kualanamu

[RNAV STARs RWY 23]

6-10

RNAV STARs RWY 05

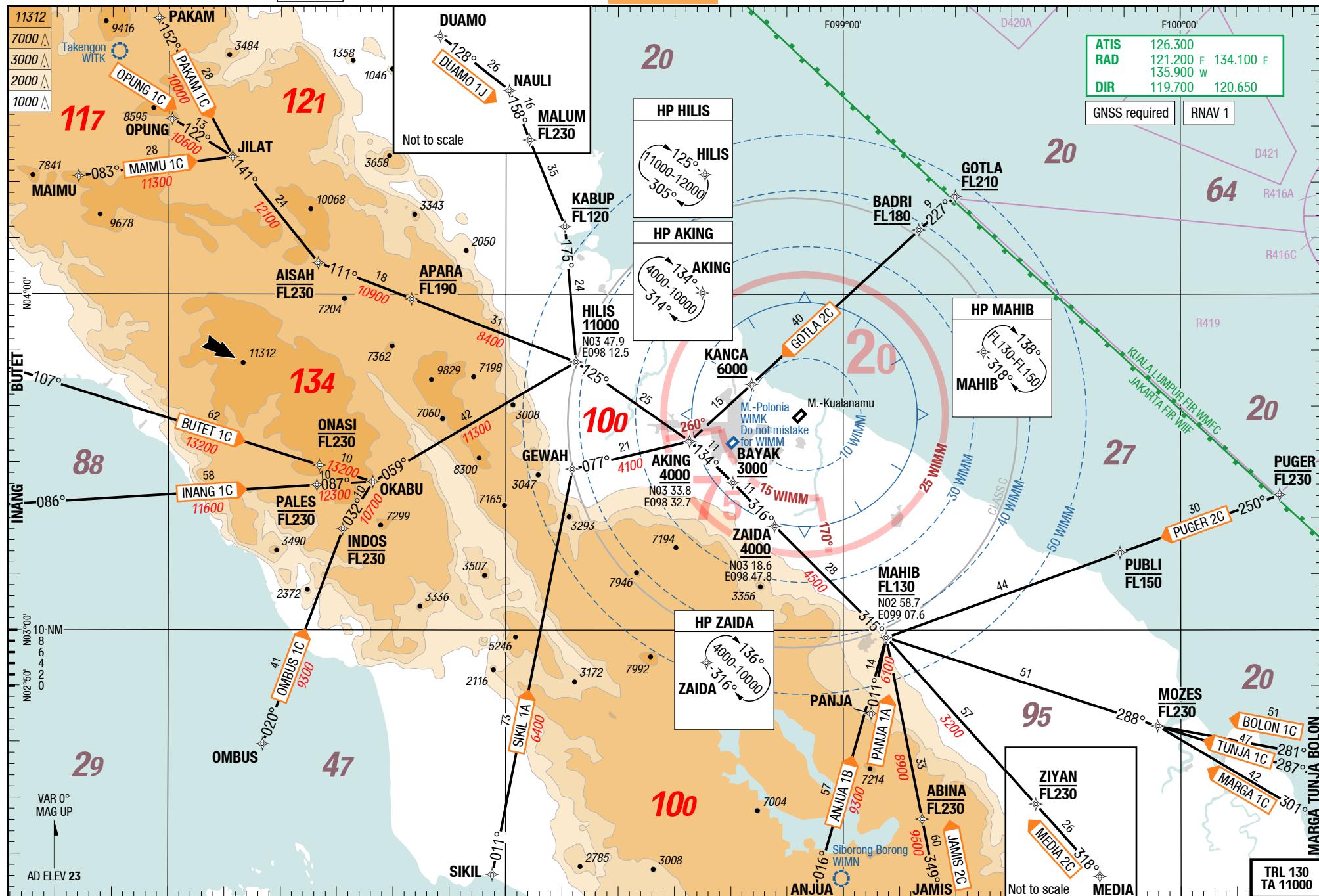
STAR

STAR

Kualanamu Medan Indonesia

[RNAV STARs RWY 23]

RNAV STARs RWY 05



Changes: new

Effective 19-JUL-2018

12-JUL-2018

Indonesia Medan Kualanamu

Kualanamu Medan Indonesia

KNO-WIMM

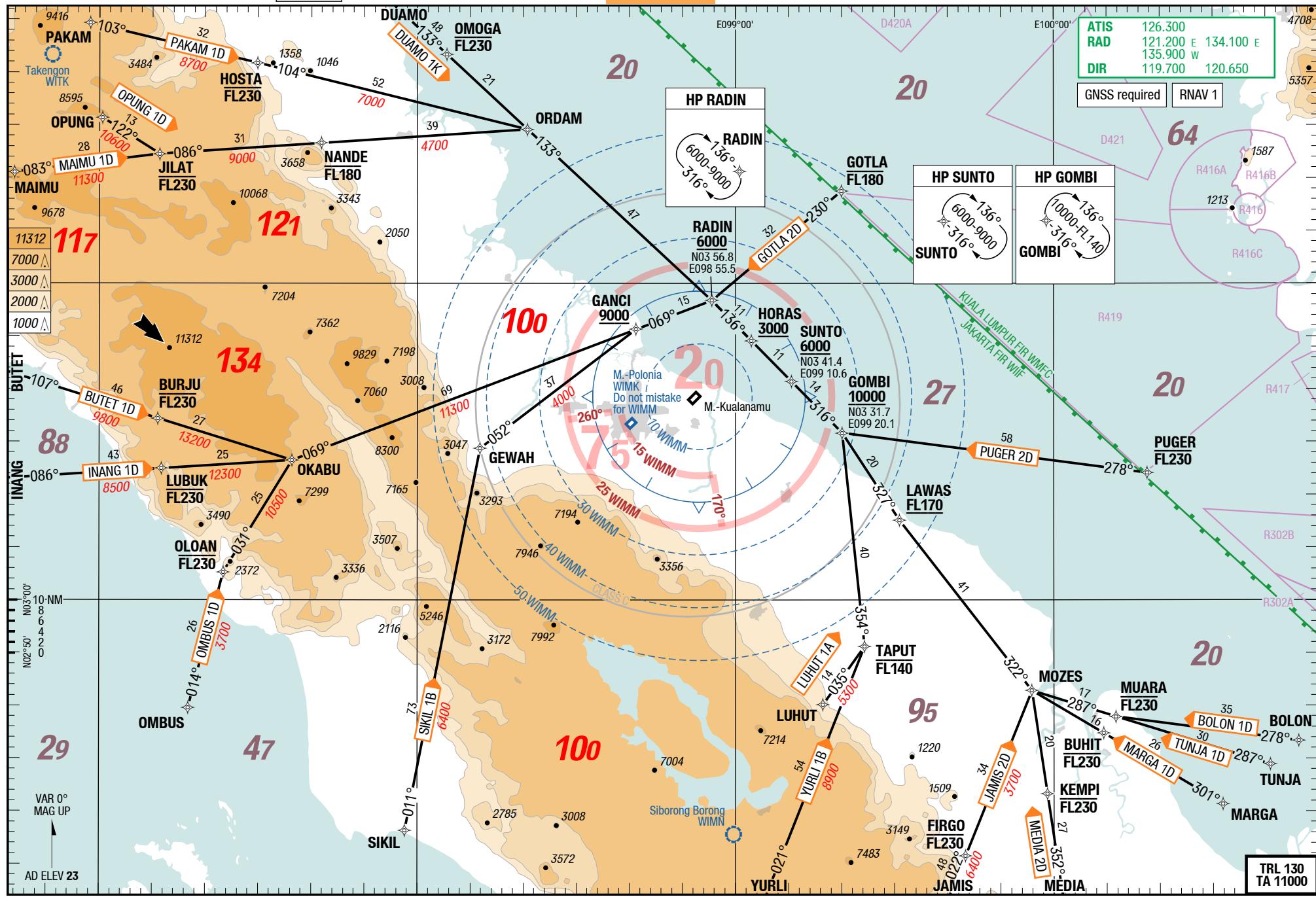
6-20

RNAV STARs RWY 23

STAR

STAR

RNAV STARs RWY 23

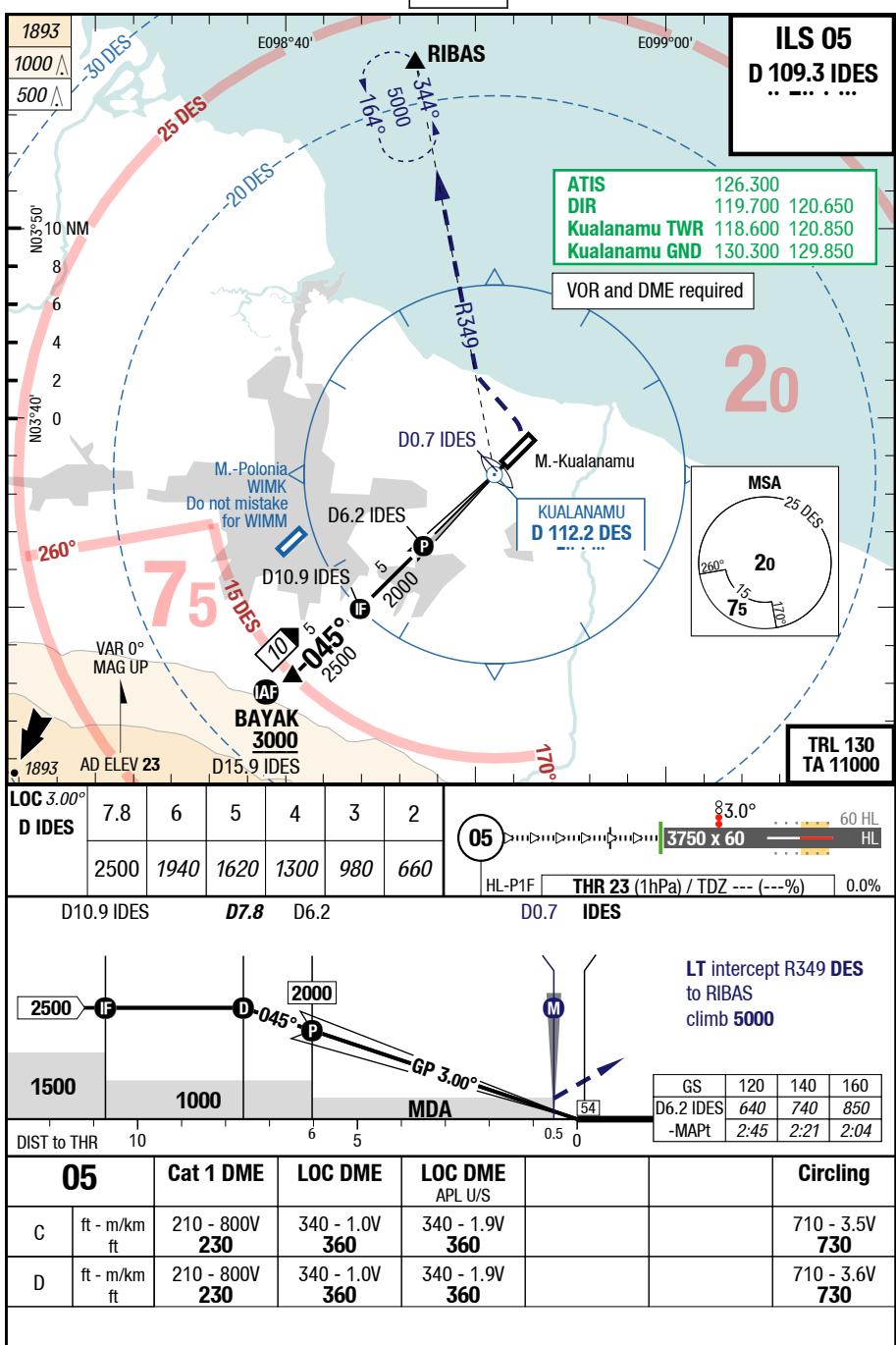


Changes: new

## KNO-WIMM

7-10

ILS 05

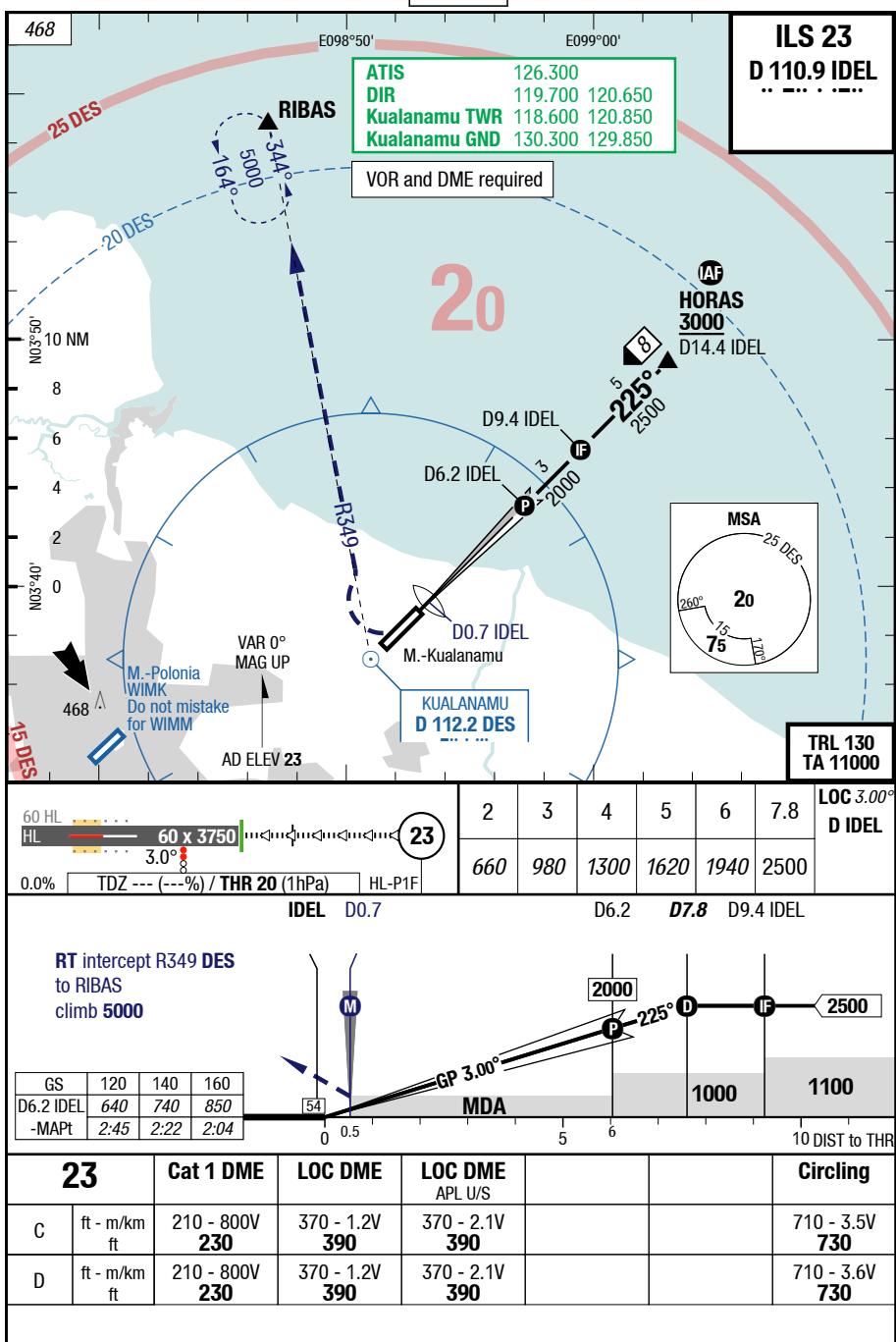


Changes: Completely revised

## KNO-WIMM

7-20

ILS 23

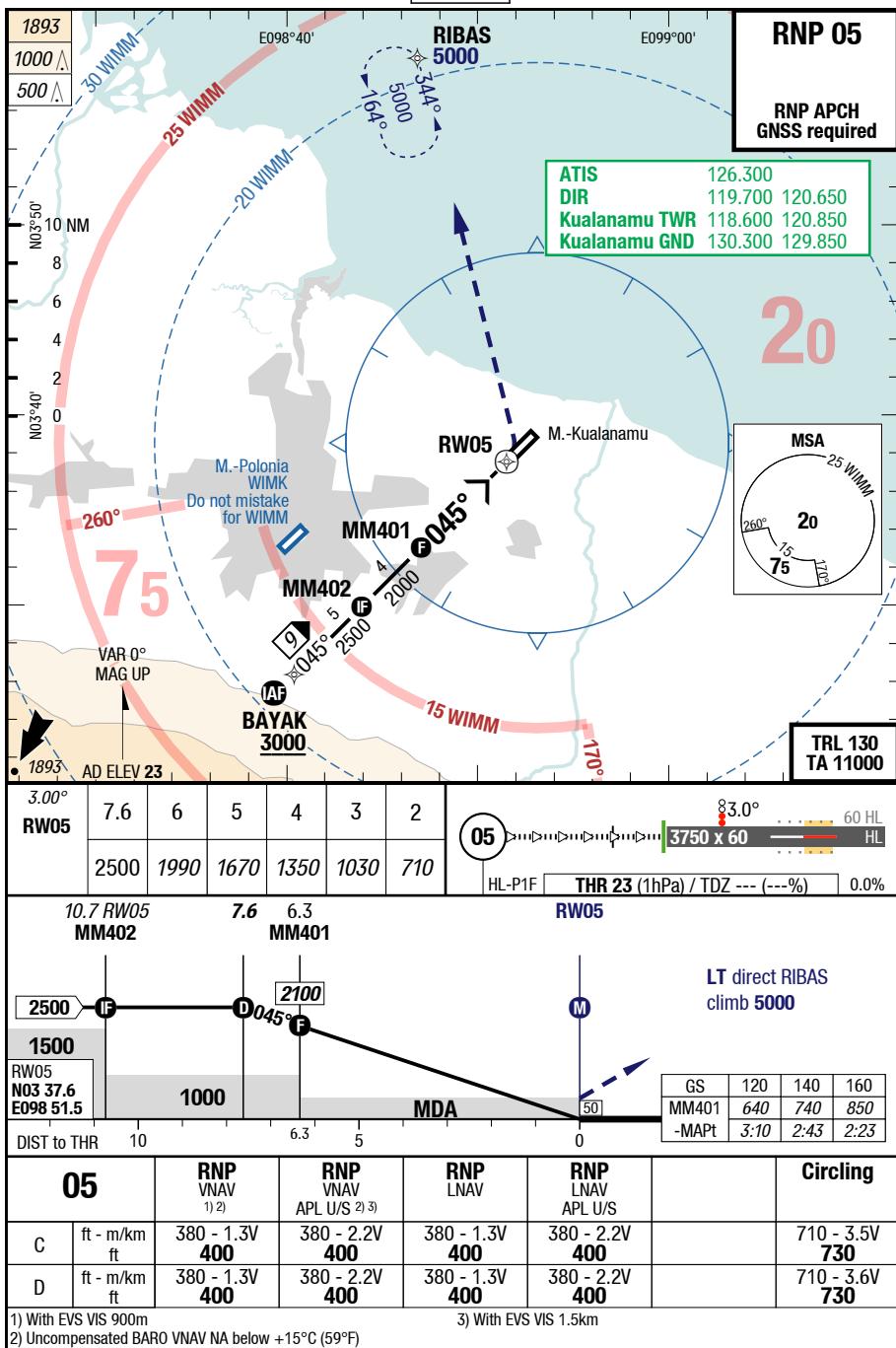


Changes: Completely revised

## KNO-WIMM

7-30

RNP 05



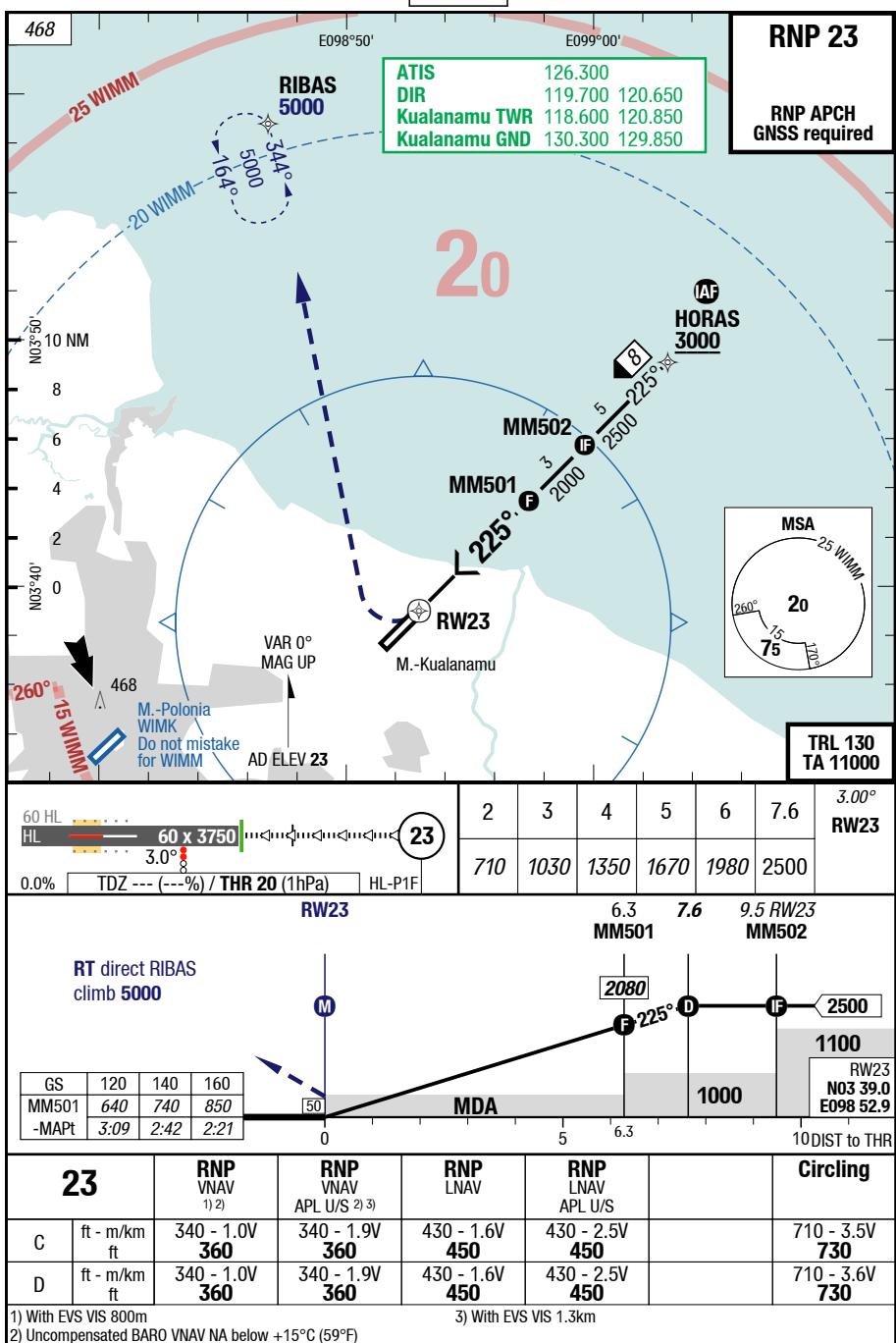
Changes: new

## KNO-WIMM

7-40

RNP 23

IAC



Effective 19-JUL-2018

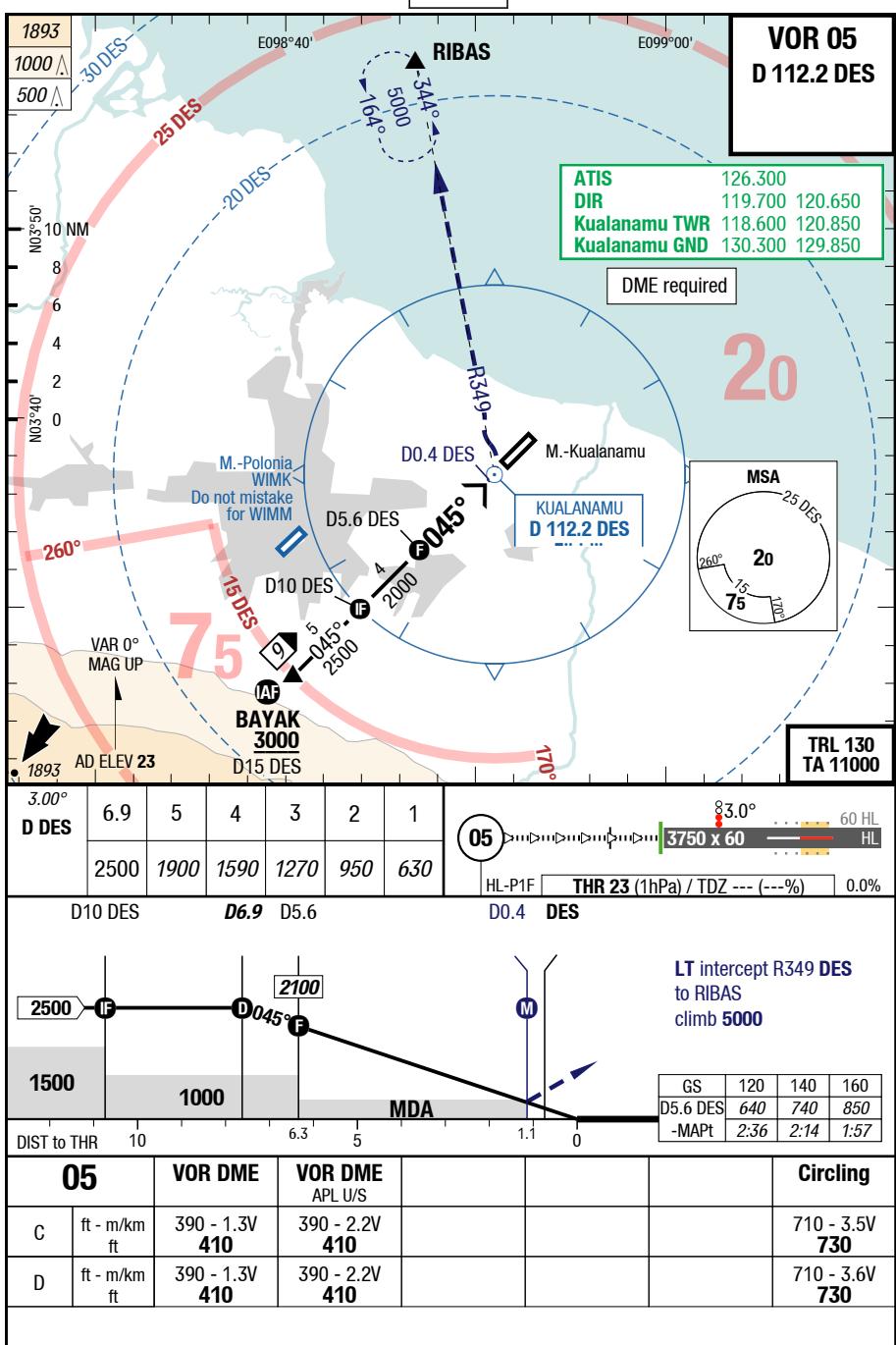
12-JUL-2018

Indonesia Medan Kualanamu

## KNO-WIMM

7-50

VOR 05



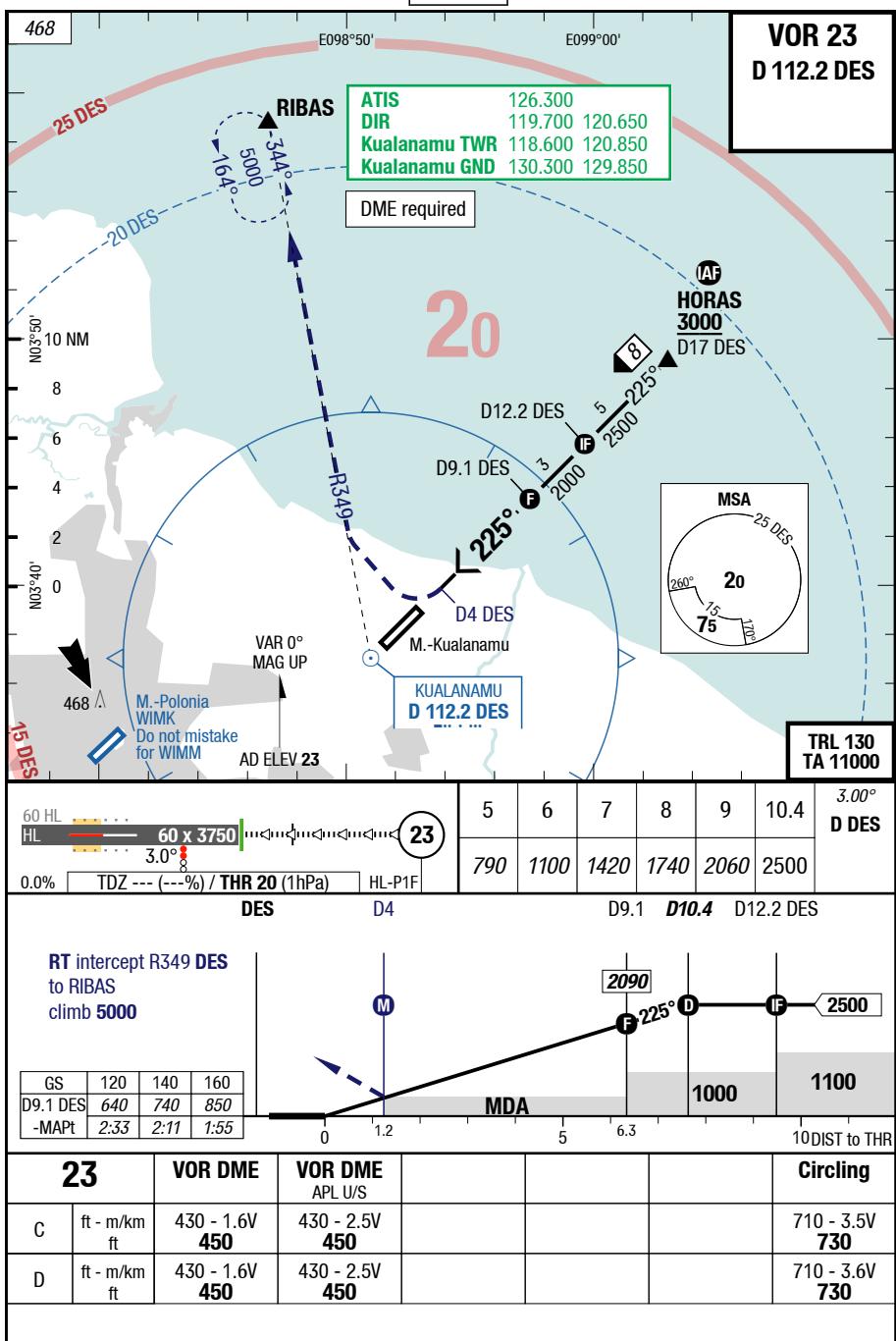
Changes: Completely revised

KNO-WIMM

7-60

VOR 23

IAC



Changes: Completely revised

**Effective 19-JUL-2018**

12-JUL-2018

KNO-WIMM

Indonesia Medan Kualanamu

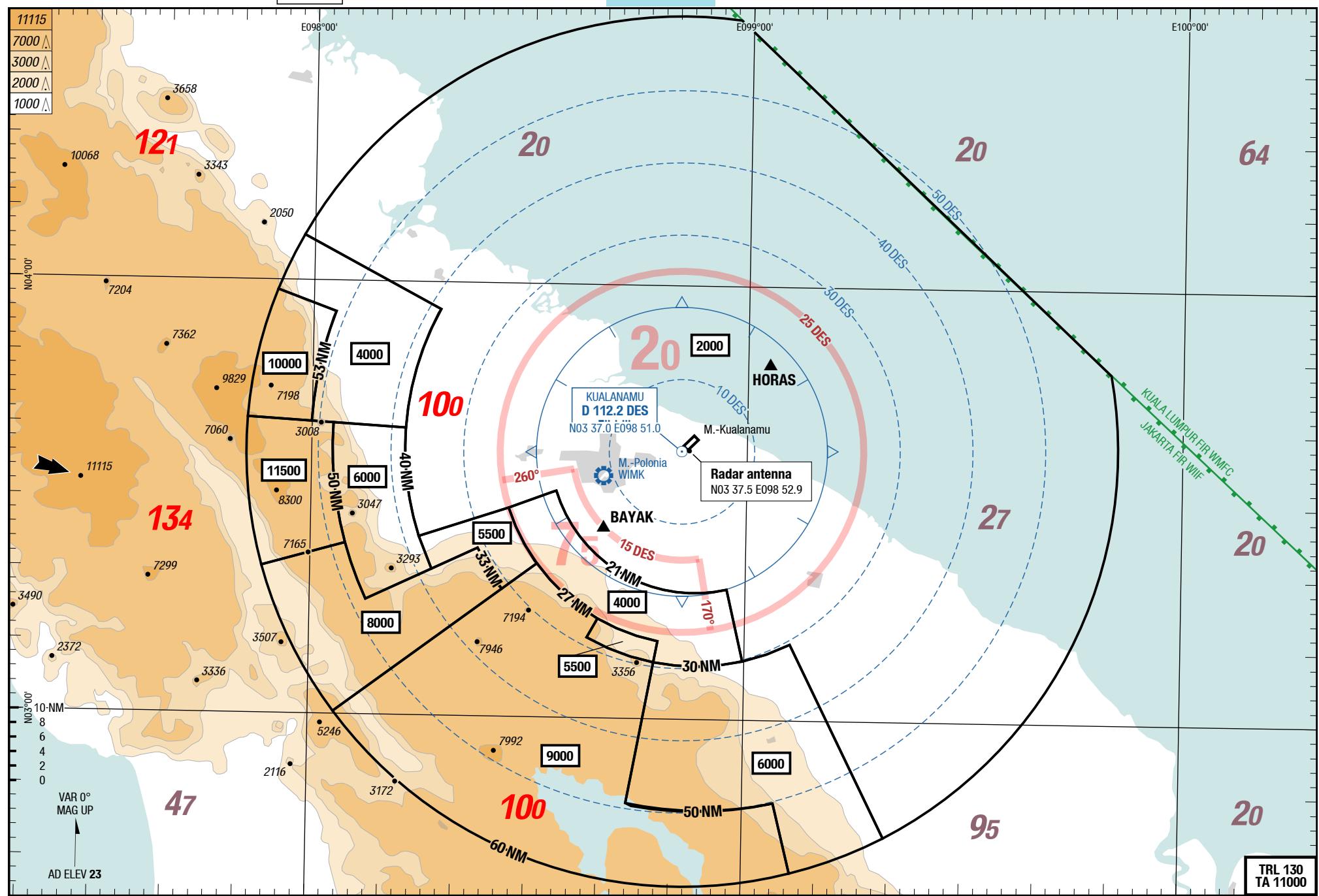
Kualanamu **Medan** Indonesia

The logo consists of the letters "MRC" in a bold, black, sans-serif font. To the left of "MRC" is a small rectangular box containing the letters "NIL". A thick black arrow points from the right side of the "NIL" box towards the right side of the "MRC" letters.

ANDO

ANDO

8-10



Changes: MSA, WPT , Navaid , OBST, VAR