

GENERAL

Operational Hours

ATS Hours: 2230-1130

Airport Information

RFF: CAT 9

PCN: RWY 12/30: 98/F/C/X/T

Operation

TWY Restriction

Wing-tip CLR at TWY INT between the ACFT HLDG at the stop marking on the TWY and the other ACFT taxiing behind it are as follows.

When B772 HLDG at stop marking on TWY T2 or T6

Wingspan (WS) of ACFT taxiing on TWY P1-P2 or P5-P6	WS ≤35.4m	35.4m <WS ≤52.4m	WS >52.4m
Wing-tip CLR	Wing-tip CLR ≥15m	6.5m ≤ Wing-tip CLR <15m	Wing-tip CLR <6.5m

Warnings

HWE VOR/DME unusable:

VOR

R070-R090 beyond 25NM below 5000ft.

R100-R110 beyond 20NM below 4000ft.

R350-R010 beyond 15NM below 6000ft.

DME

R000-R020 beyond 25NM below 6000ft.

Mountainous terrain 2.5NM NE of THR RWY 30.

ARRIVAL

Speed

MAX IAS 250KT at or below 10000ft.

MAX IAS 200KT at or below 3000ft within CTR (APRX 5NM around ARP)

PROP only:

MAX IAS 160KT at or below 3000ft within CTR (APRX 5NM around ARP)

Communication

COM Failure

Proceed in accordance with VFR.

If unable, proceed to HWE VOR/DME at last assigned ALT or 5000ft whichever is higher, and execute APCH.

PROCs other than above will be issued when situation required.

ARRIVAL

Arrival Procedure

Critical DME and DME Gap for DME/DME/IRU navigation on RNAV STAR

YAGEN

- RNAV Critical DME
RWY 30: **HWE**: 7NM to YAGEN - YAGEN.
MKE: 7NM to YAGEN - YAGEN.
- RNAV DME GAP
RWY 30: HIBAR - 7NM to YAGEN.

EMINA

- RNAV Critical DME
RWY 30: **HWE**: 10NM to EMINA - EMINA.
MRE: 10NM to EMINA - 9NM to EMINA.
- RNAV DME GAP
RWY 30: HIBAR - 10NM to EMINA.

KURMI

- RNAV Critical DME
RWY 12: **MRE**: 22NM to KANTA - KANTA.
HWE: 22NM to KANTA - KANTA.
- RNAV DME GAP
RWY 12: HIBAR - 22NM to KANTA.
KANTA - KURMI.

Noise Abatement Procedure: RWY 12: Delayed flap APCH PROC and reduced flap setting PROC.

DEPARTURE

Take-off Minima

RWY		12	
Multi ENG	ft - m/km	0 - 400R/400V	REDL+RCLL
		0 - 400V	-
RWY		30	
Multi ENG	ft - m/km	0 - 400V	-

Speed

MAX IAS 250KT at or below 10000ft.

MAX IAS 200KT at or below 3000ft within CTR (APRX 5NM around ARP)

PROP only:

MAX IAS 160KT at or below 3000ft within CTR (APRX 5NM around ARP)

DEPARTURE

Departure Procedure

Critical DME and DME Gap for DME/DME/IRU navigation on RNAV SIDs

TSUGARU RNAV

- RNAV Critical DME

RWY 12: **MRE:** 30NM to TAPPI - TAPPI.RWY 30: **MRE:** 47.6NM to TAPPI - TAPPI.**HWE:** 47.6NM to TAPPI - 40NM to TAPPI.

KOMACHI TR:

MRE: TAPPI - 24NM to UWE.**HWE:** TAPPI - 55NM to UWE.**UWE:** 55NM to UWE - 24NM to UWE.**HPE:** 16NM to UWE - UWE.

- RNAV DME GAP

RWY 12: RWY 12 DER - 30NM to TAPPI.

RWY 30: RWY 30 DER - 47.6NM to TAPPI

KOMACHI TR: 24NM to UWE - 22NM to UWE.

19NM to UWE - 16NM to UWE.

Noise Abatement Procedure: RWY 30: Steepest climb PROC.

13-JUL-2017
HKD-RJCH

Japan Hakodate

AGC
AFC

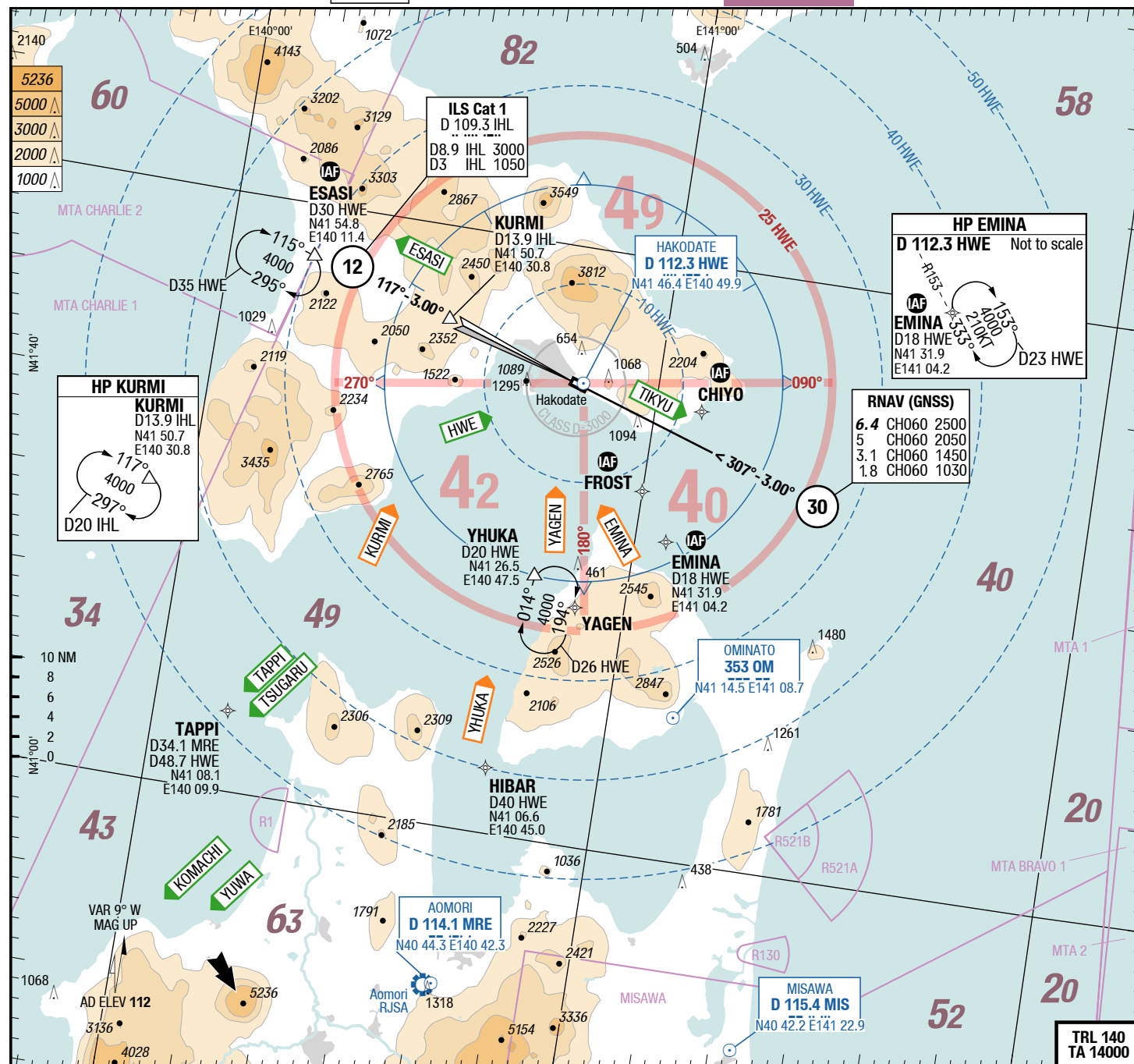
AFC

AFC

Hakodate Japan

AGC
AFC

2-10



ATIS	126.600	2230-1130
APP	121.000	119.000 2230-1130
DEP	121.000	127.900 2230-1130
TWR	118.350	2230-1130 126.200

Landing RWY system:

12 H-P1F 640 **92 / 3hPa** TDZ +0.4% +0.6%

30 H-S 420 **151 / 6hPa** TDZ -0.8%

HP EMINA
D 112.3 HWE Not to scale
EMINA
D18 HWE
N41 31.9
E141 04.2

RNAV (GNSS)
6.4 CH060 2500
5 CH060 2050
3.1 CH060 1450
1.8 CH060 1030

13-JUL-2017
HKD-RJCH

Japan Hakodate

AGC

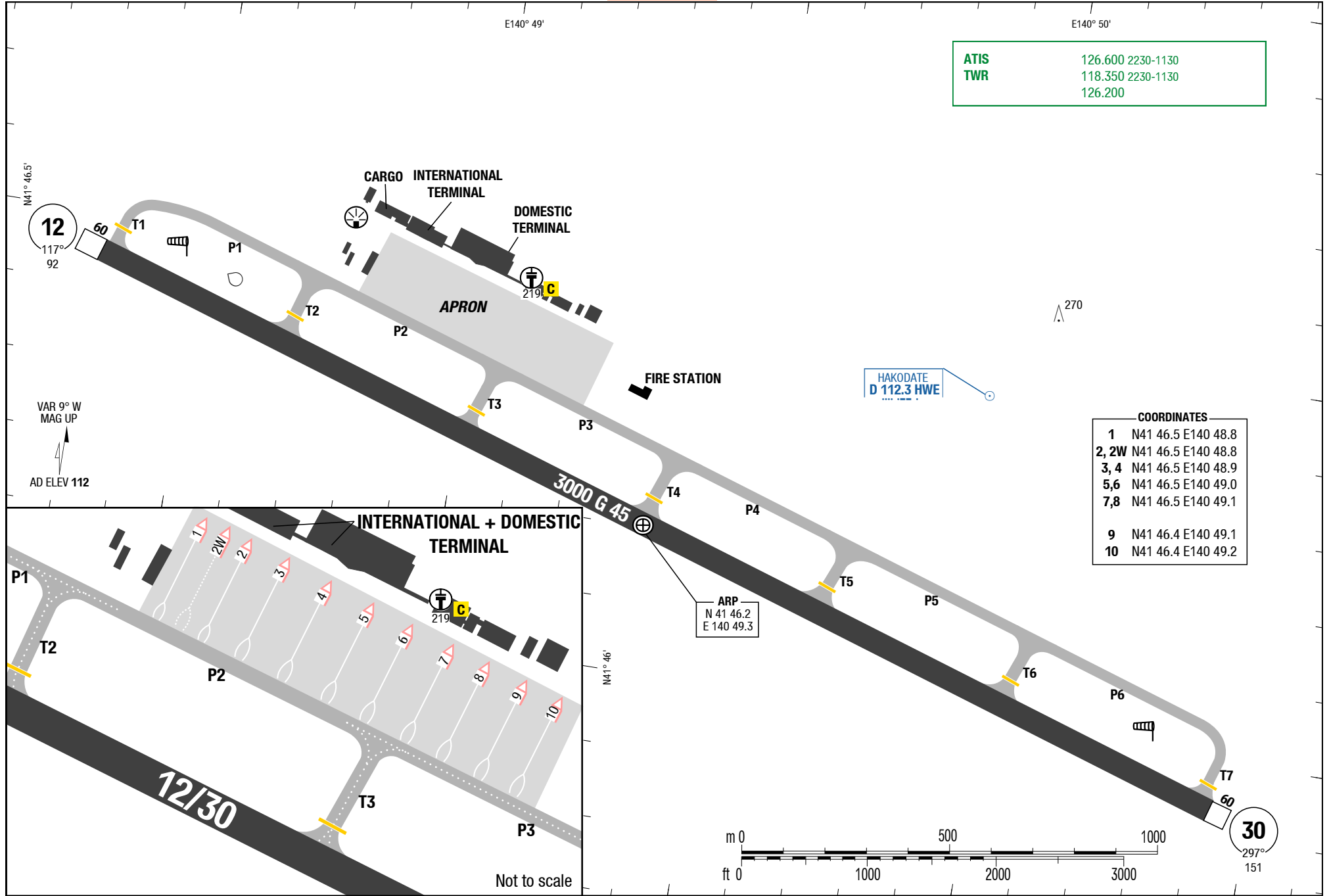
AGC

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Hakodate Japan

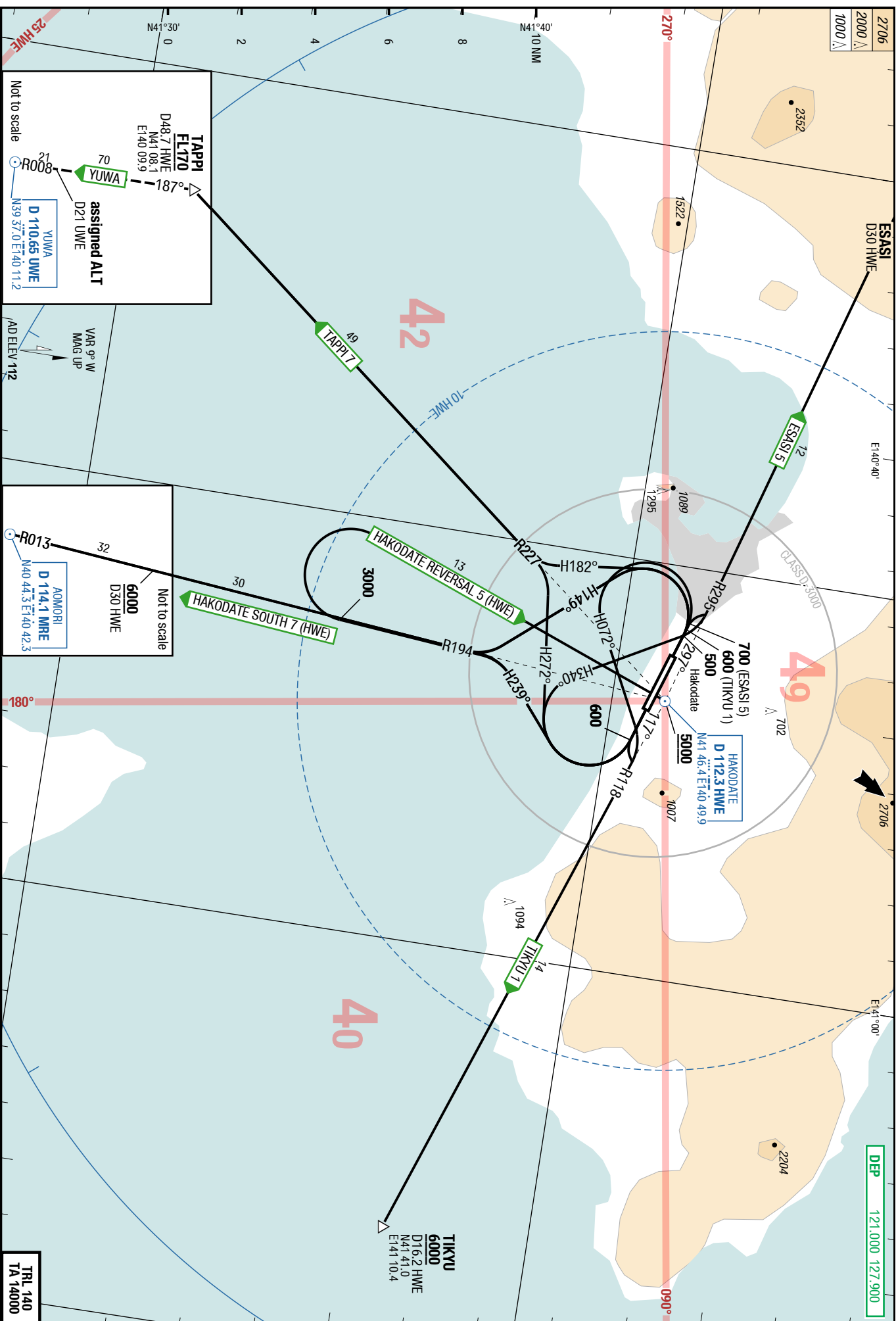
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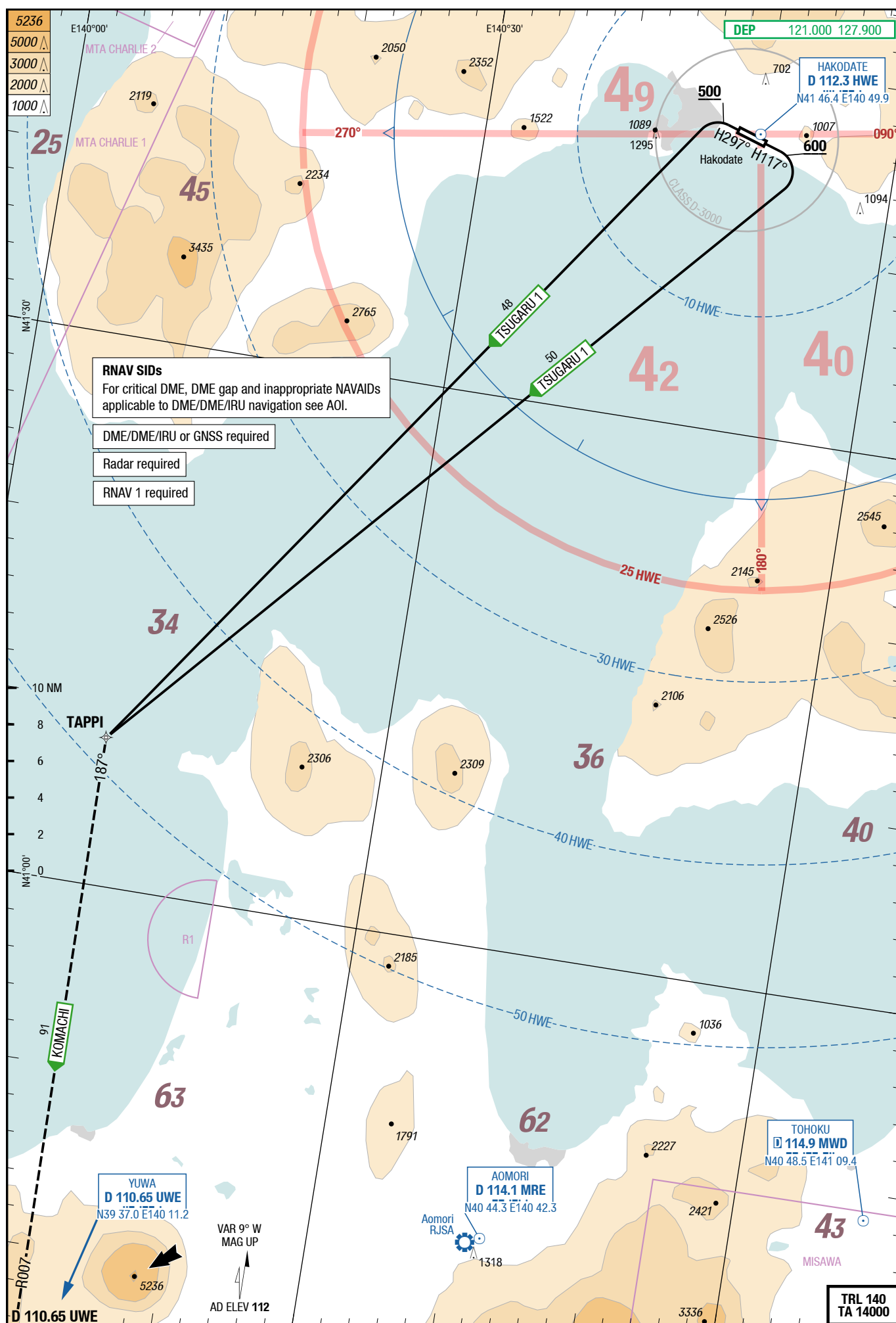
3-20



Changes: Nil

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ESASI 5 / HAKODATE REVERSAL 5 / HAKODATE SOUTH 7 / TAPPI 7

RWYs 12 (117°) / 30 (297°)

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100
4.9%	ft/MIN	600	800	900	1100	1200	1400
5.4%	ft/MIN	700	900	1000	1200	1400	1500

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
ESASI 5 4.9% to 1300 (RWY 12) 121.000 127.900	RWY 12 HDG 117° - at 600 RT HDG 340° - intercept R295 HWE to ESASI RWY 30 HDG 297° - at 700 RT intercept R295 HWE to ESASI	
HAKODATE REVERSAL 5 HWE REVERSAL 5 4.0% to 1300 (RWY 12) 5.4% to 1600 (RWY 30) 121.000 127.900	RWY 12 HDG 117° - at 600 RT HDG 239° - intercept R194 HWE - at 3000 RT direct HWE RWY 30 HDG 297° - at 500 LT HDG 149° - intercept R194 HWE - at 3000 RT direct HWE	HWE MNM 5000 HWE MNM 5000
HAKODATE SOUTH 7 HWE SOUTH 7 4.0% to 1300 (RWY 12) 5.4% to 1600 (RWY 30) 121.000 127.900	RWY 12 HDG 117° - at 600 RT HDG 239° - intercept R194 HWE to MRE RWY 30 HDG 297° - at 500 LT HDG 149° - intercept R194 HWE to MRE	D30 HWE MNM 6000 D30 HWE MNM 6000
TAPPI 7 4.0% to 1300 (RWY 12) 5.4% to 1600 (RWY 30) 121.000 127.900	RWY 12 HDG 117° - at 600 RT HDG 272° - intercept R227 HWE to TAPPI RWY 30 HDG 297° - at 500 LT HDG 182° - intercept R227 HWE to TAPPI	TAPPI MNM FL170 TAPPI MNM FL170
	TRANSITION	
	YUWA TAPPI - R008 UWE to UWE	D21 UWE at assigned altitude

TIKYU 1

RWYs 12 (117°) / 30 (297°)

	GS	120	150	180	210	240	270
5.4%	ft/MIN	700	900	1000	1200	1400	1500
6.3%	ft/MIN	800	1000	1200	1400	1600	1800

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
TIKYU 1 6.3% to 1700 (RWY 12) 5.4% to 1600 (RWY 30) 121.000 127.900	RWY 12 HDG 117° - at 600 LT intercept R118 HWE to TIKYU RWY 30 HDG 297° - at 600 LT HDG 072°- intercept R118 HWE to TIKYU	TIKYU MNM 6000 TIKYU MNM 6000

TSUGARU 1

RWYs 12 (117°) / 30 (297°)

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100
5.4%	ft/MIN	700	900	1000	1200	1400	1500

DESIGNATOR	ROUTING	ALTITUDES
	All RWYs	
TSUGARU 1 4.0% to 1300 (RWY 12) 5.4% to 1600 (RWY 30) 121.000 127.900 ①②	RWY 12 HDG 117° - at MNM 600 RT direct TAPPI	
	RWY 30 HDG 297° - at MNM 500 LT direct TAPPI	
	TRANSITION	
	KOMACHI TAPPI - UWE	

- ① Obstacle ALT 919ft located at 3.43NM 105° from DER of RWY 12.
 ② Obstacle ALT 1296ft located at 4.63NM 267° from DER of RWY 30.

Effective 05-MAR-2015

26-FEB-2015

HKD-RJCH

6-10

STARs / RNAV STARs

NIL

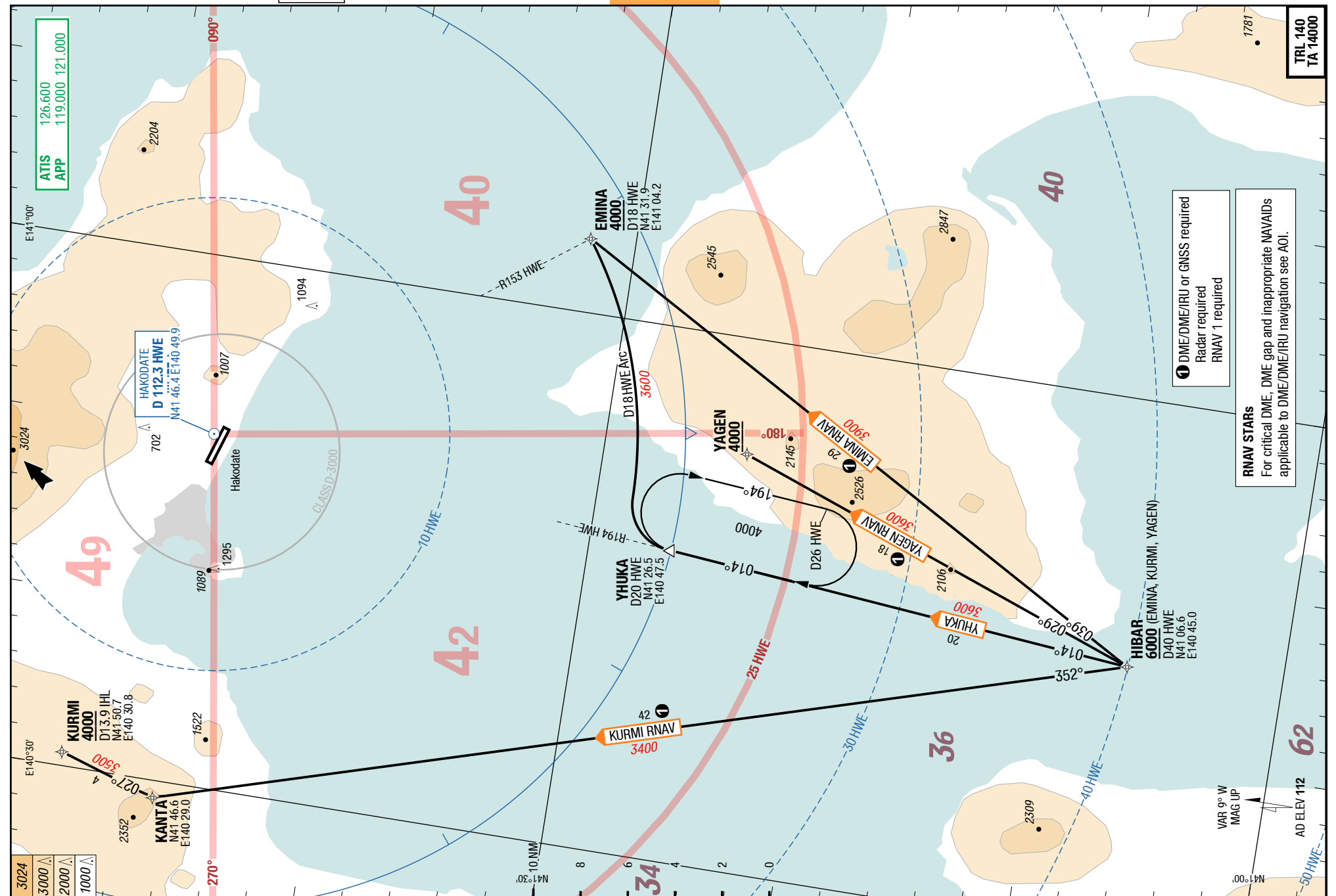
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STAR

Hakodate Japan

NIL

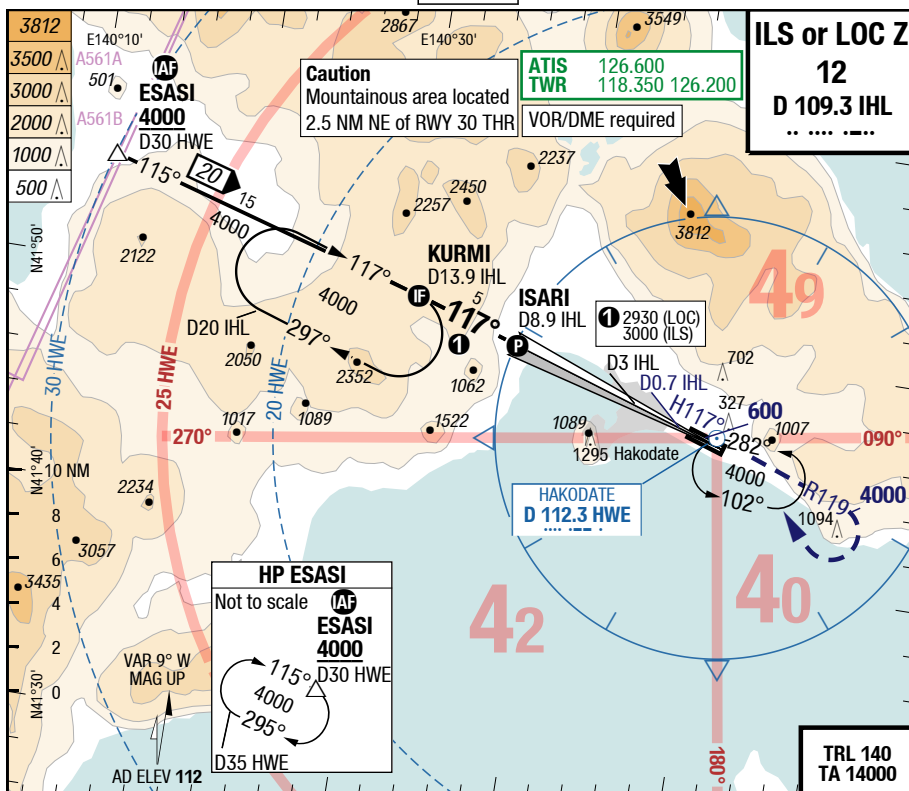
STARs / RNAV STARs



Changes: ALT, Note, Editorial

7-10

ILS or LOC Z 12



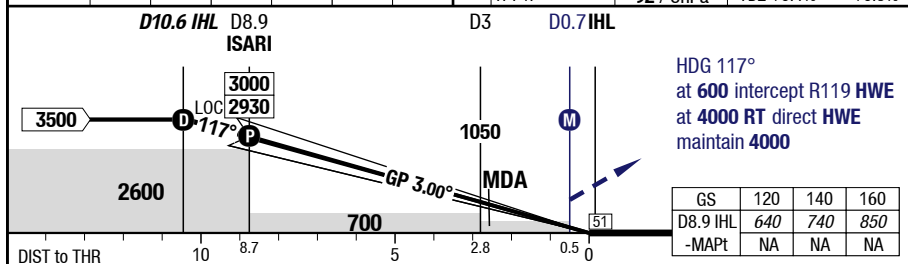
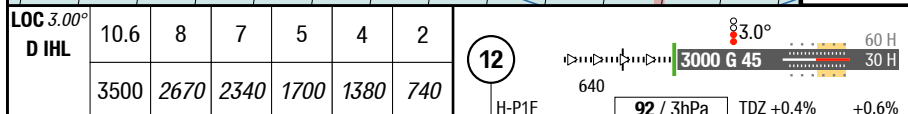
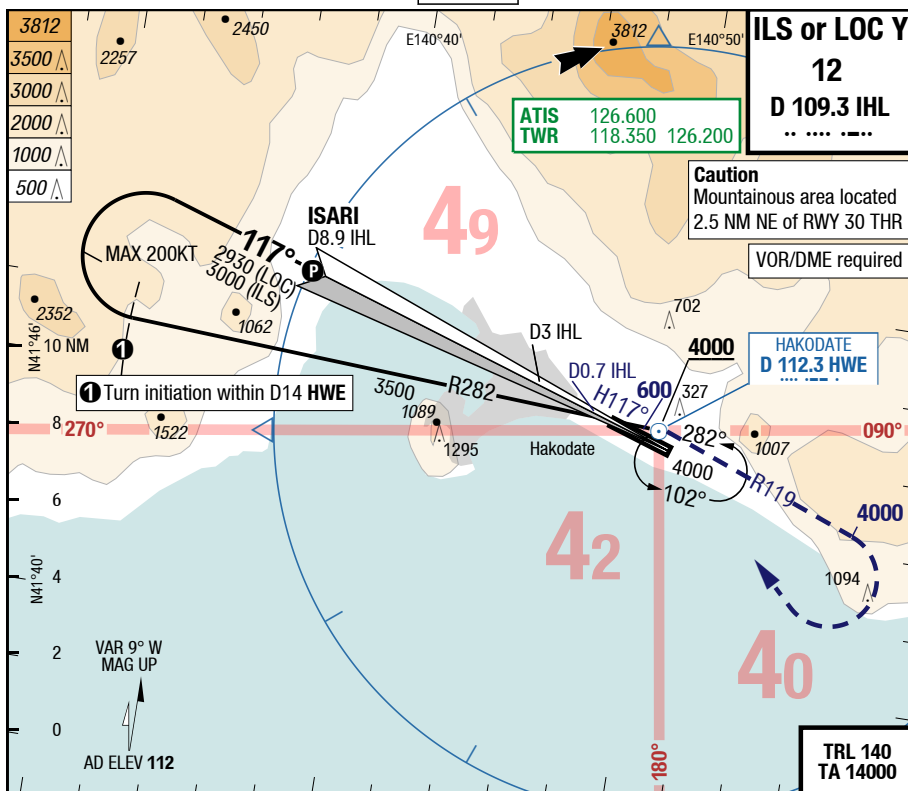
12		Cat 1 DME GA 5.0% 1)	LOC DME GA 5.0%	Circling 2)	
TERPS					
C	ft - m/km ft	200 - 750 310	440 - 1.6 540	600 - 2.4V 720	
D	ft - m/km ft	210 - 750 310	440 - 1.6 540	700 - 3.6V 820	

1) With EVS 550m
2) S of RWY only

Changes: MIN

7-20

ILS or LOC Y 12



12		Cat 1 DME GA 5.0% 1)	LOC DME GA 5.0%	Circling 2)	
				TERPS	
C	ft - m/km ft	200 - 750 310	440 - 1.6 540	600 - 2.4V 720	
D	ft - m/km ft	210 - 750 310	440 - 1.6 540	700 - 3.6V 820	

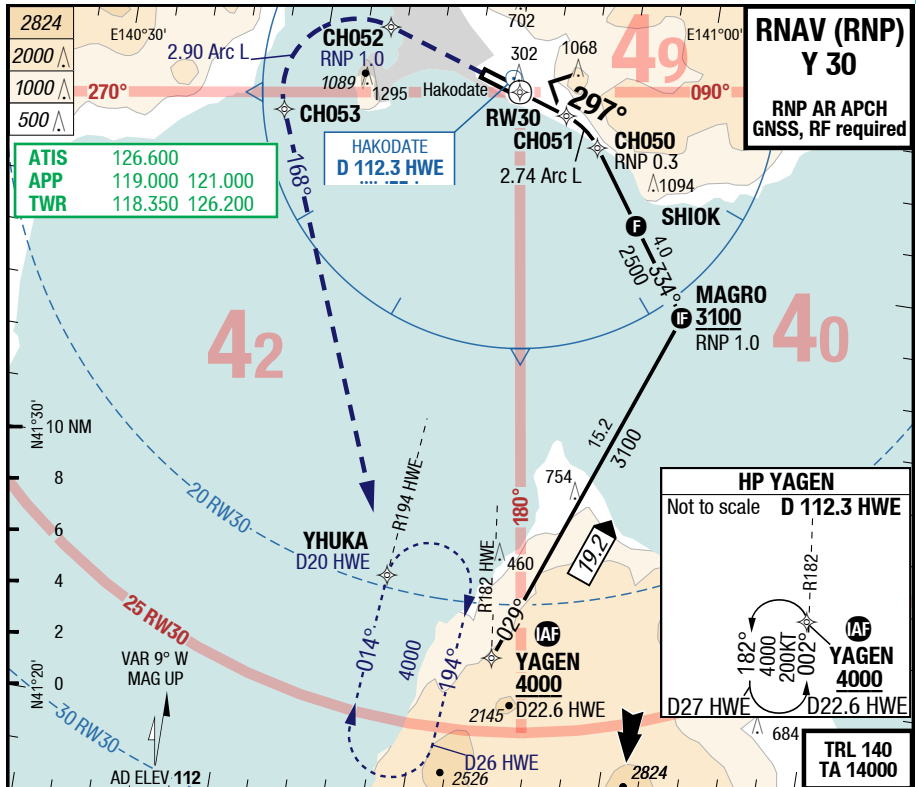
1) With EVS 550m

2) S of RWY only

Changes: MIN

7-30

RNAV (RNP) Y 30



60 H
30 H
45 G 3000
3.0°
-0.6% TDZ -0.8% 151 / 6hPa

30

H-S

3.00°
RW30

direct CH052
LT direct CH053
LT direct YHUKA
climb 4000
contact APP

GS	120	140	160
	640	740	850

RW30

2 RW30

CH051

CH050

SHIOK

M

297°

MDA

860

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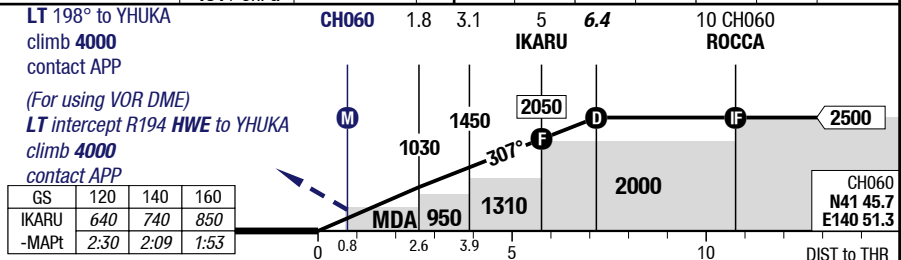
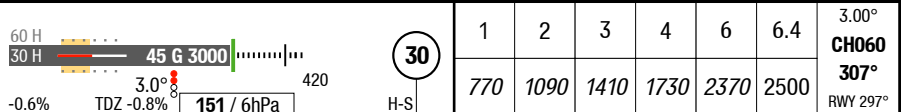
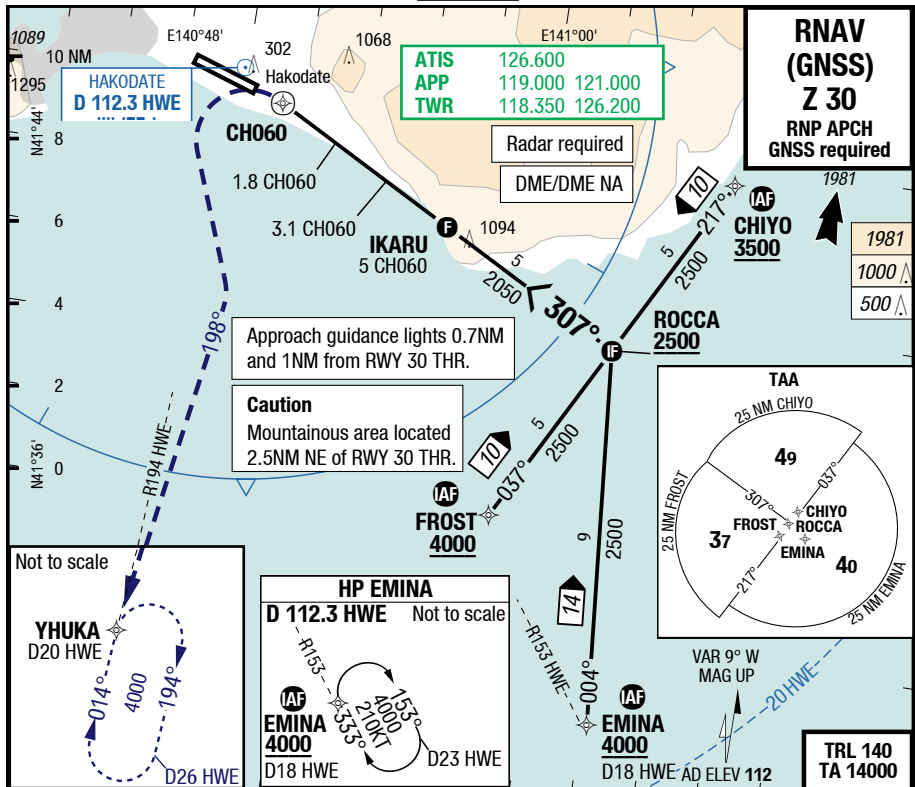
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7-50

RNAV (GNSS) Z 30



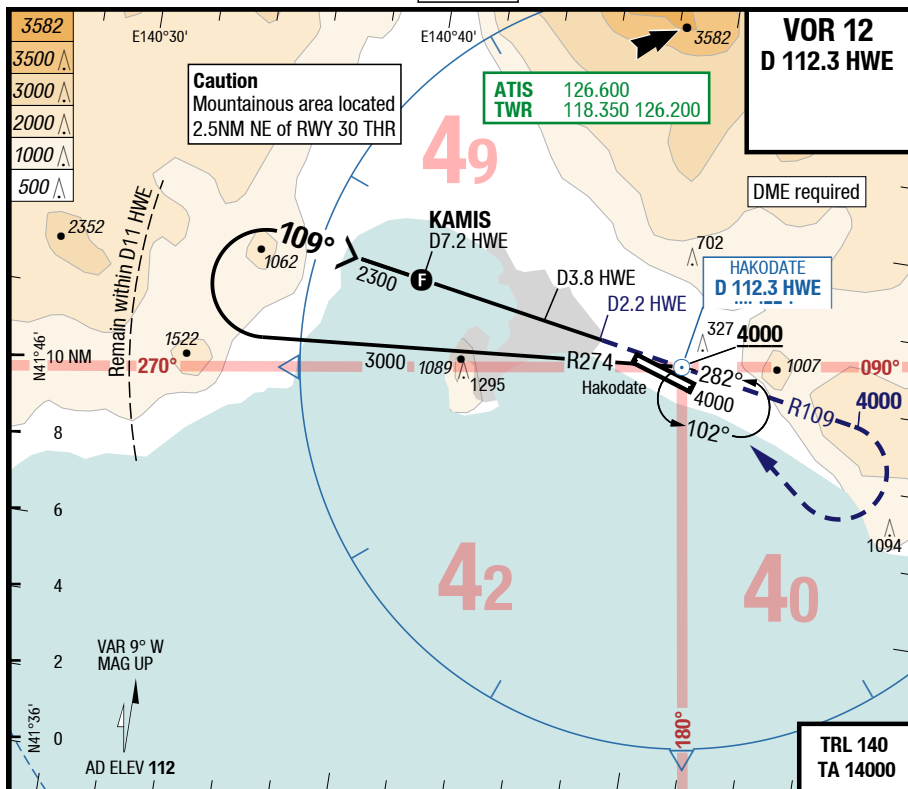
30		RNAV GNSS	Circling ¹⁾	
		LNAV	TERPS	
C	ft - m/km ft	380 - 1.2 530	600 - 2.4V 720	
D	ft - m/km ft	400 - 1.4 550	700 - 3.6V 820	

1) S of RWY only

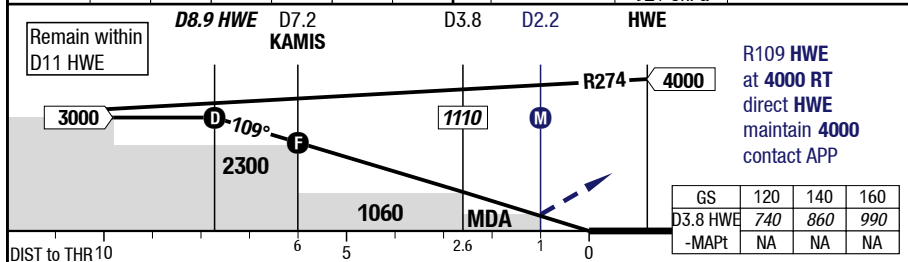
Changes: chart title, OBST

7-70

VOR 12



3.48° D HWE 109° RWY 117°	8.9	7	6	5	4	3	12	3.0°	60 H	30 H
	3000	2300	1930	1550	1180	810	H-P1F	92 / 3hPa	TDZ +0.4%	+0.6%

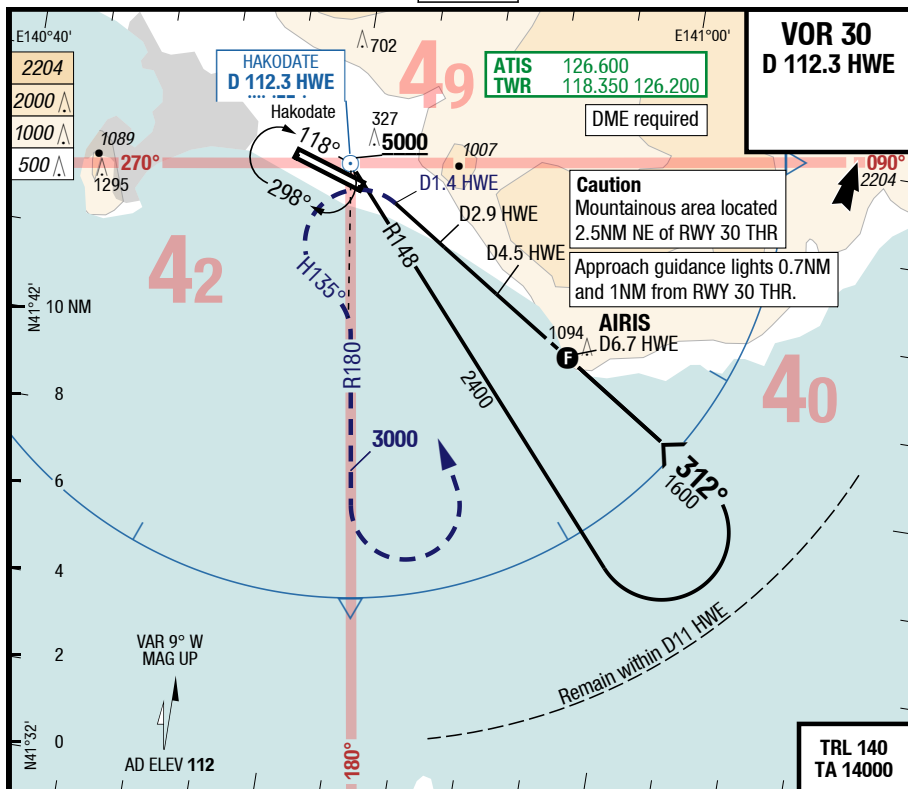


12	VOR DME GA 3.6%					Circling ⁽¹⁾ TERPS
C	ft - m/km ft	430 - 1.6 530				600 - 2.4V 720
D	ft - m/km ft	430 - 1.6 530				700 - 3.6V 820

1) S of RWY only

7-80

VOR 30



30		VOR DME		Circling (1)	
TERPS					
C	ft - m/km ft	580 - 1.9 730		620 - 2.4V 730	
D	ft - m/km ft	580 - 1.9 730		700 - 3.6V 820	

1) S of RWY only

HKD-RJCH

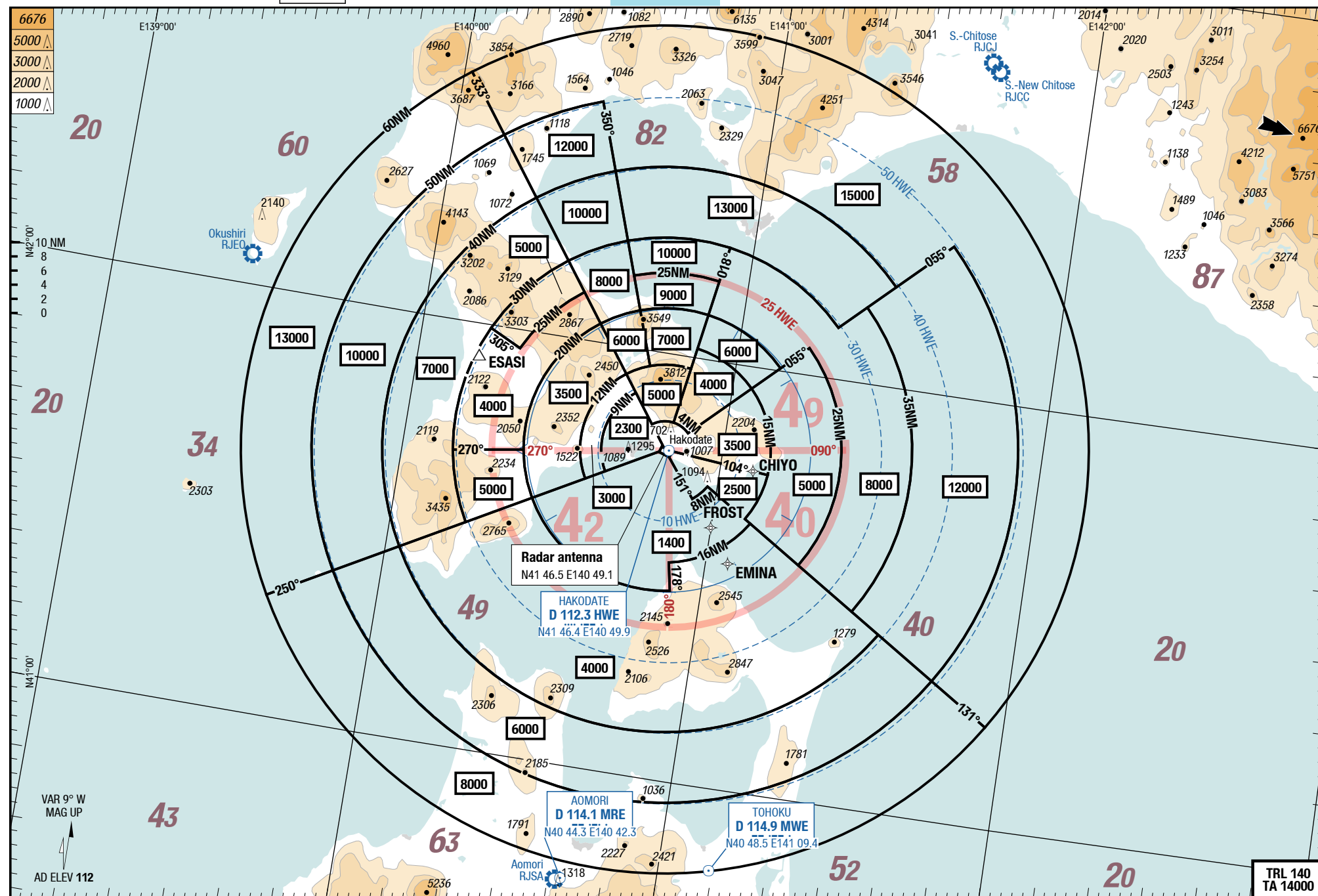
8-10

NIL
MRC

MRC

MRC

NIL
MRC



Changes: new

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