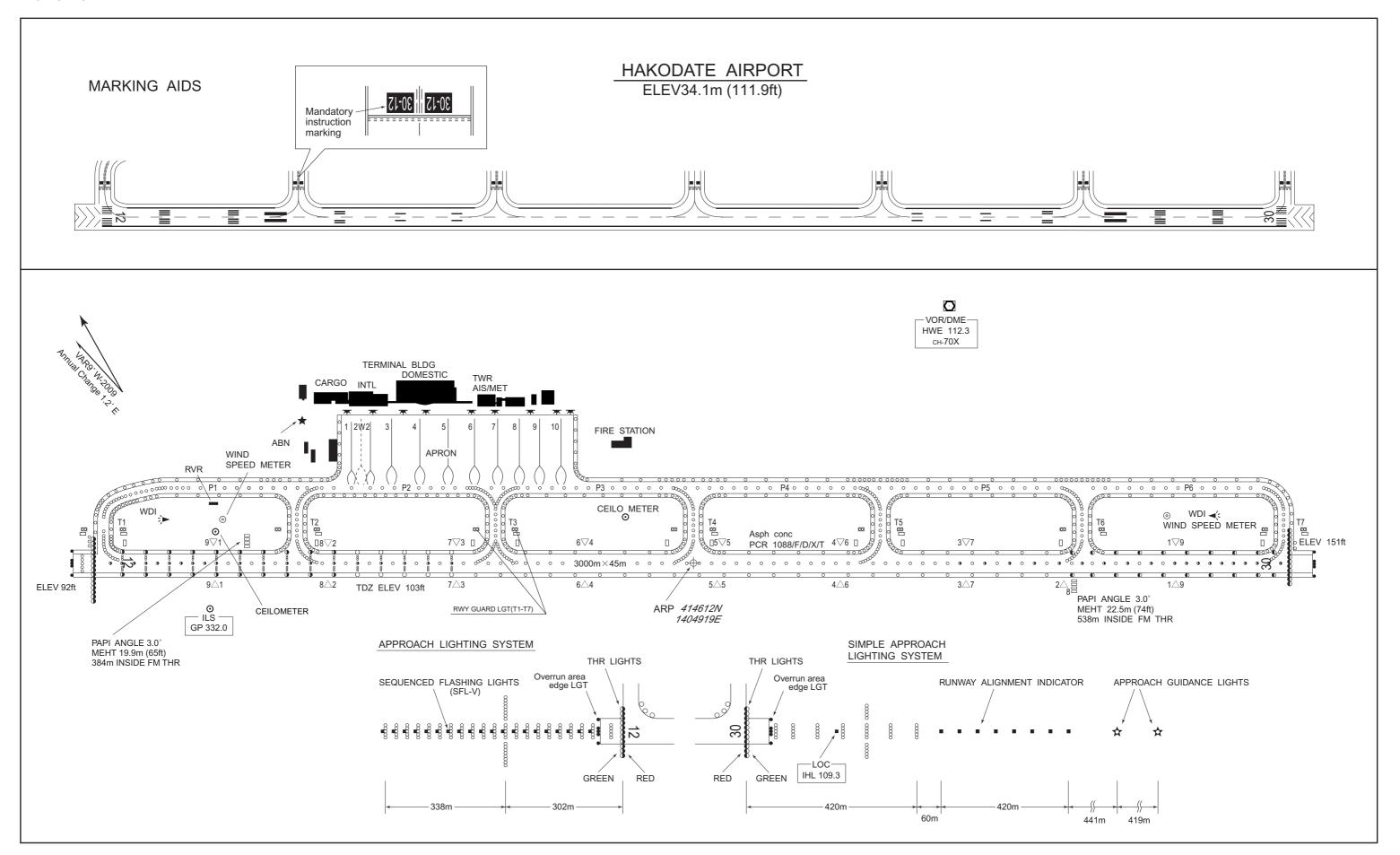
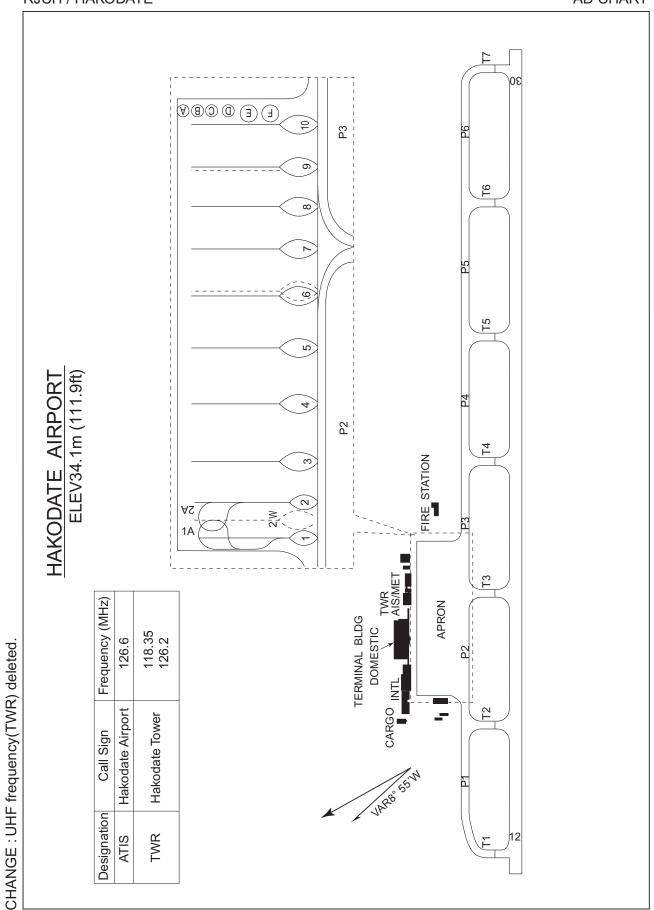
AERODROME CHART



AIRCRAFT PARKING/DOCKING CHART

RJCH / HAKODATE

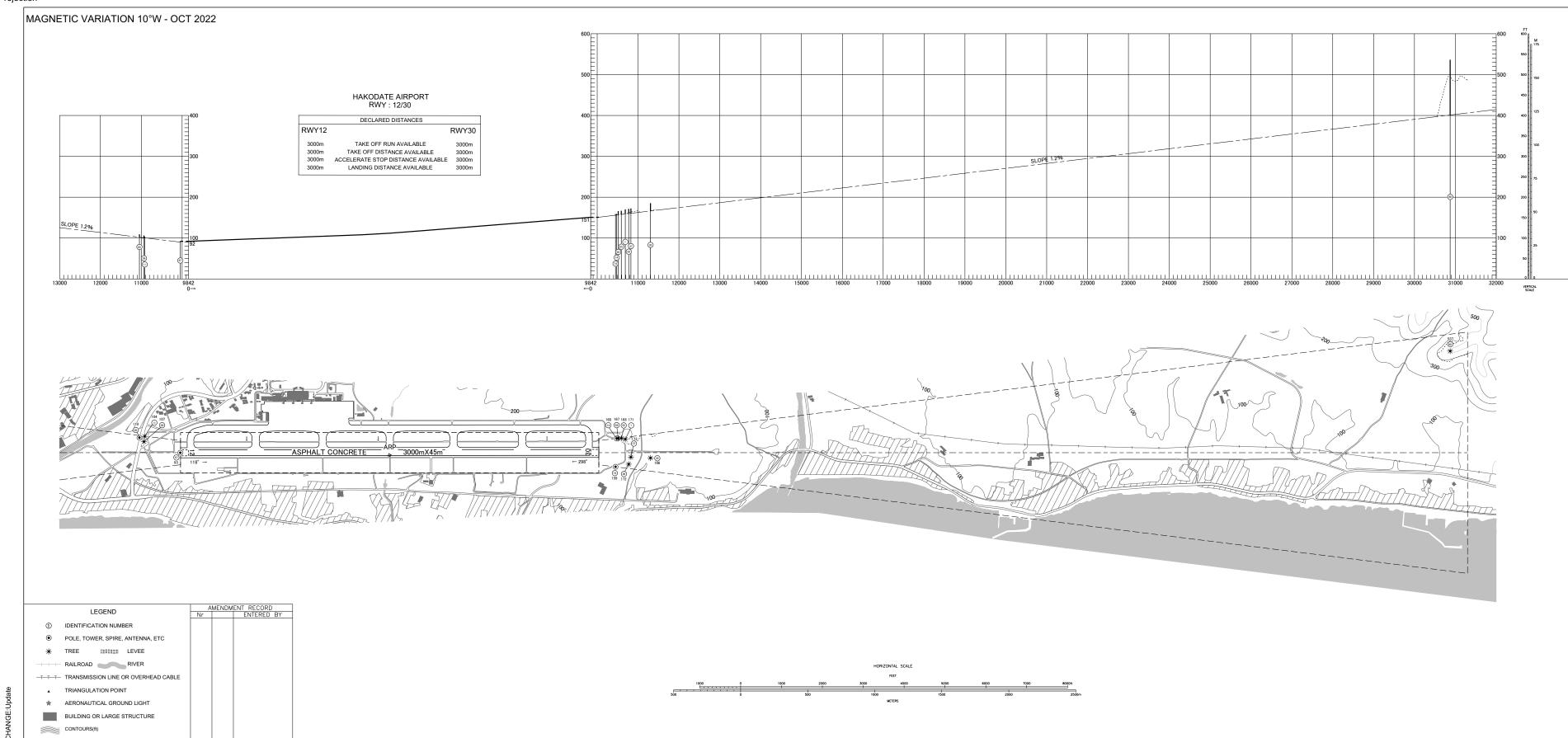
AD CHART



AERODROME OBSTACLE CHART - ICAO TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

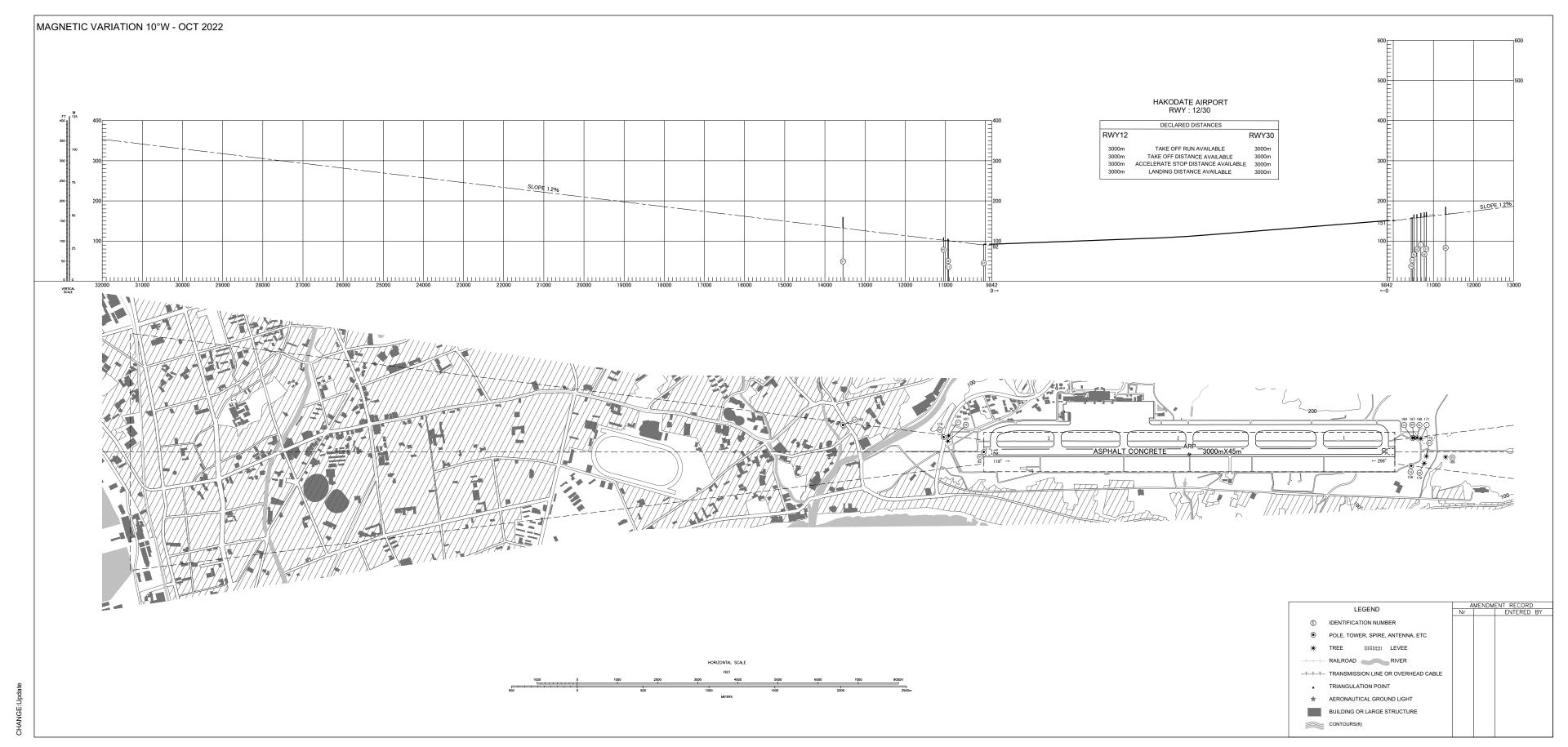
Transverse Mercator Projection



AERODROME OBSTACLE CHART - ICAO TYPE A (OPERATING LIMITATIONS)

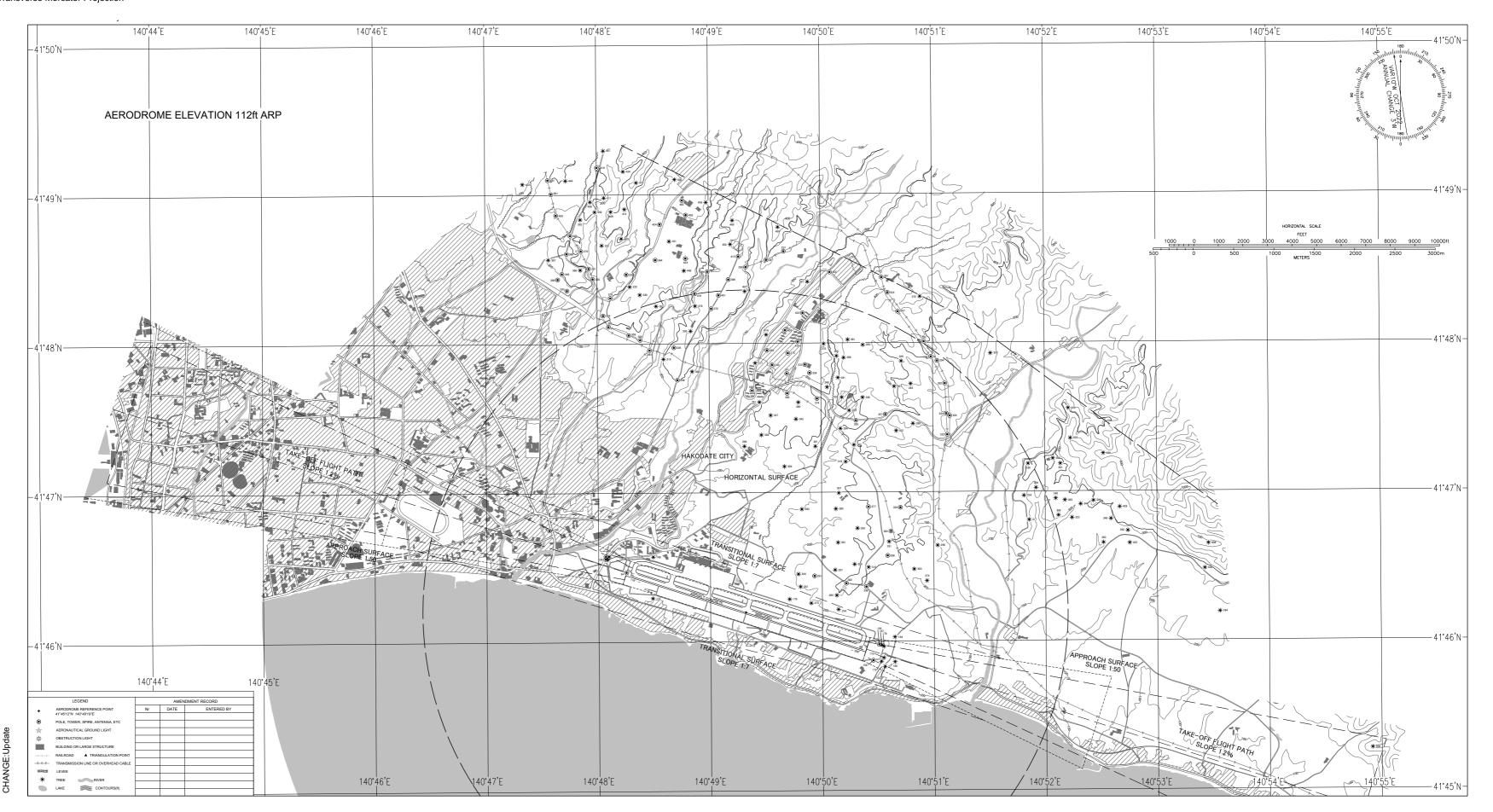
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

Transverse Mercator Projection



AERODROME OBSTACLE CHART - ICAO TYPE B

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC Transverse Mercator Projection



RJCH / HAKODATE SID

HAKODATE REVERSAL SIX DEPARTURE

RWY 12: Climb RWY HDG to 600FT, turn right HDG239°...

RWY 30: Climb RWY HDG to 500FT, turn left HDG149°...

...to intercept and proceed via HWE R194 to 3000FT, turn right direct to HWE VOR/DME.

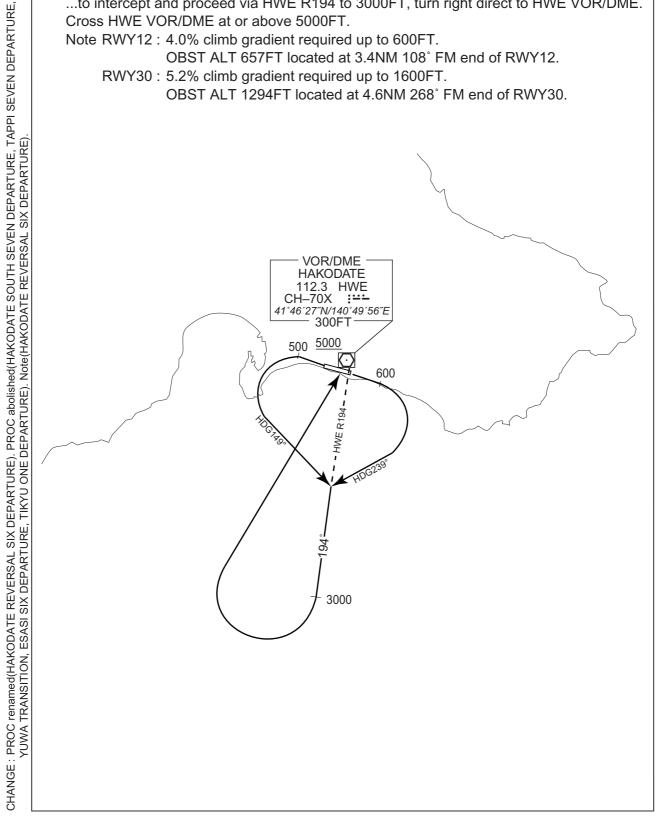
Cross HWE VOR/DME at or above 5000FT.

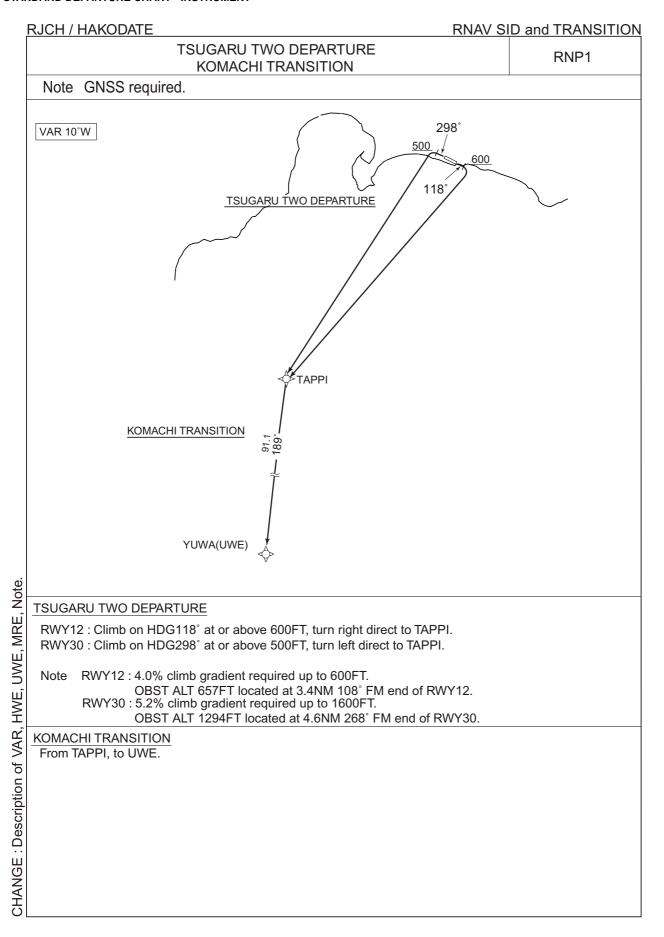
Note RWY12: 4.0% climb gradient required up to 600FT.

OBST ALT 657FT located at 3.4NM 108° FM end of RWY12.

RWY30: 5.2% climb gradient required up to 1600FT.

OBST ALT 1294FT located at 4.6NM 268° FM end of RWY30.





RJCH / HAKODATE

RNAV SID and TRANSITION

TSUGARU TWO DEPARTURE

RWY12

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	118 (108.0)	-9.6	-	-	+600	1	-	RNP1
002	DF	TAPPI	-	-	-9.6	-	R	-	-	-	RNP1

RWY30

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	1	-	298 (288.1)	-9.6	-	1	+500	1	-	RNP1
002	DF	TAPPI	-	-	-9.6	-	L	-	-	-	RNP1

KOMACHI TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TAPPI	-	-	-9.6	-	-	-	-	-	RNP1
002	TF	UWE	1	189 (179.4)	-9.6	91.1	1	-	1	1	RNP1

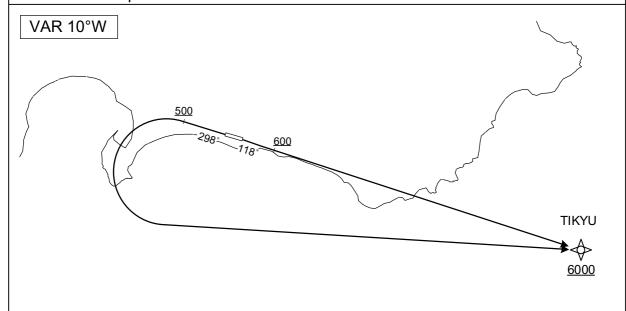
Waypoint Identifier	Coordinates
TAPPI	410805.5N / 1400954.5E
UWE	393701.7N / 1401113.0E

RJCH / HAKODATE

RNAV SID

TOI ONE DEPARTURE RNP1

Note GNSS required.



RWY12: Climb on HDG118° at or above 600FT, direct to TIKYU at or above 6000FT.

RWY30: Climb on HDG298° at or above 500FT, turn left direct to TIKYU at or above 6000FT.

Note RWY12 : 6.0% climb gradient required up to 1500FT.

OBST ALT 1247FT located at 3.6NM 101° FM end of RWY12.

RWY30 : 5.2% climb gradient required up to 1600FT.

OBST ALT 1294FT located at 4.6NM 268° FM end of RWY30.

RWY12

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	١	118 (108.1)	-9.6	-	_	+600	ı	ı	RNP1
002	DF	TIKYU	-	-	-9.6	-		+6000	ļ	-	RNP1

RWY30

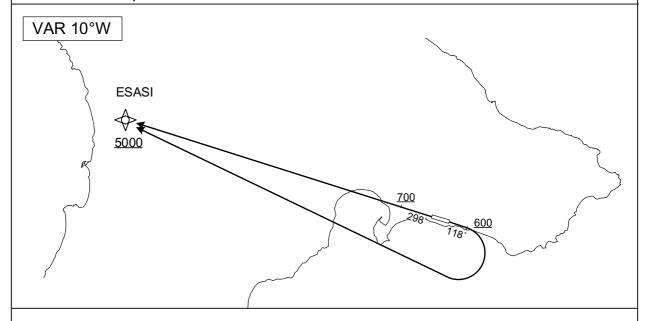
l	Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
l	Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
	001	VA	-	_	298 (288.1)	-9.6	ı		+500	ı	ı	RNP1
	002	DF	TIKYU	_	_	-9.6	_	L	+6000	-	_	RNP1

Waypoint Identifier	Coordinates
TIKYU	414102.5N / 1411021.5E

RJCH / HAKODATE RNAV SID

OKUSHIRI ONE DEPARTURE RNP1

Note GNSS required.



RWY12: Climb on HDG118° at or above 600FT, turn right direct to ESASI at or above 5000FT.

RWY30: Climb on HDG298° at or above 700FT, direct to ESASI at or above 5000FT.

Note RWY12: 4.0% climb gradient required up to 600FT.

OBST ALT 657FT located at 3.4NM 108° FM end of RWY12.

RWY30: 3.4% climb gradient required up to 700FT.

OBST ALT 1969FT located at 12.2NM 304° FM end of RWY30.

RWY12

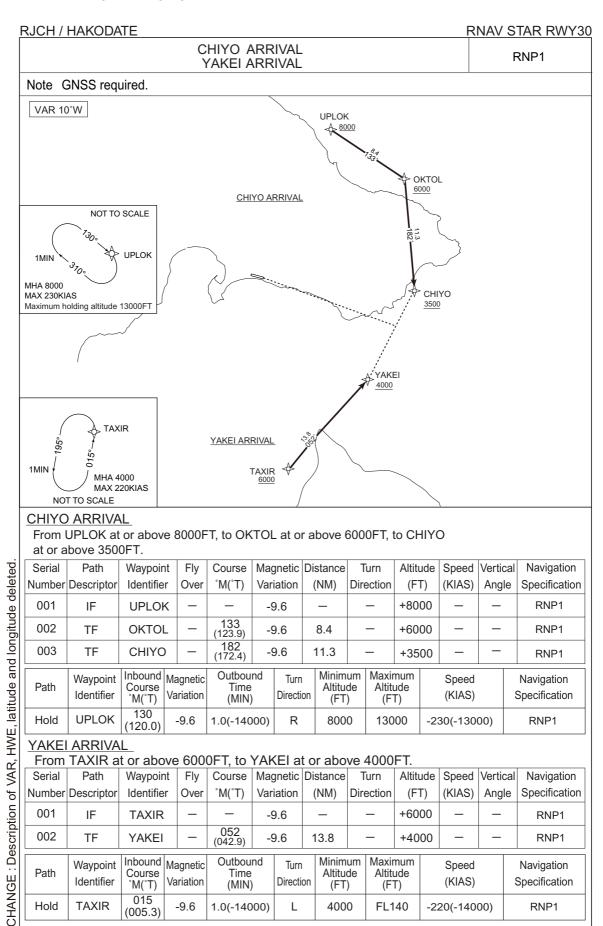
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	118 (108.1)	-9.6	-	_	+600	-	-	RNP1
002	DF	ESASI	ı	ı	-9.6	-	R	+5000	ı	ı	RNP1

RWY30

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	1	ı	298 (288.1)	-9.6	ı		+700	ı		RNP1
002	DF	ESASI		ı	-9.6		_	+5000	ı	_	RNP1

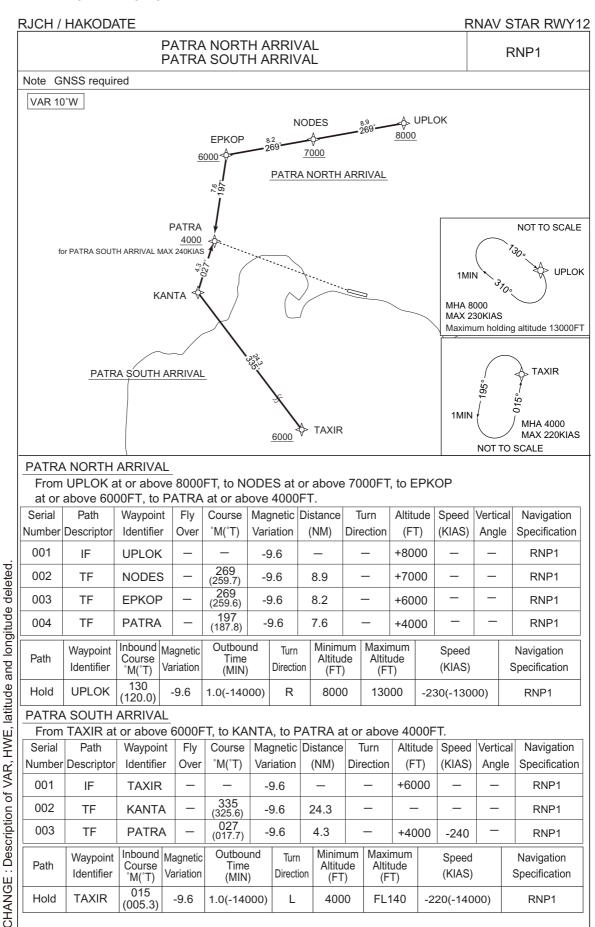
Waypoint Identifier	Coordinates
ESASI	415448.3N / 1401124.5E





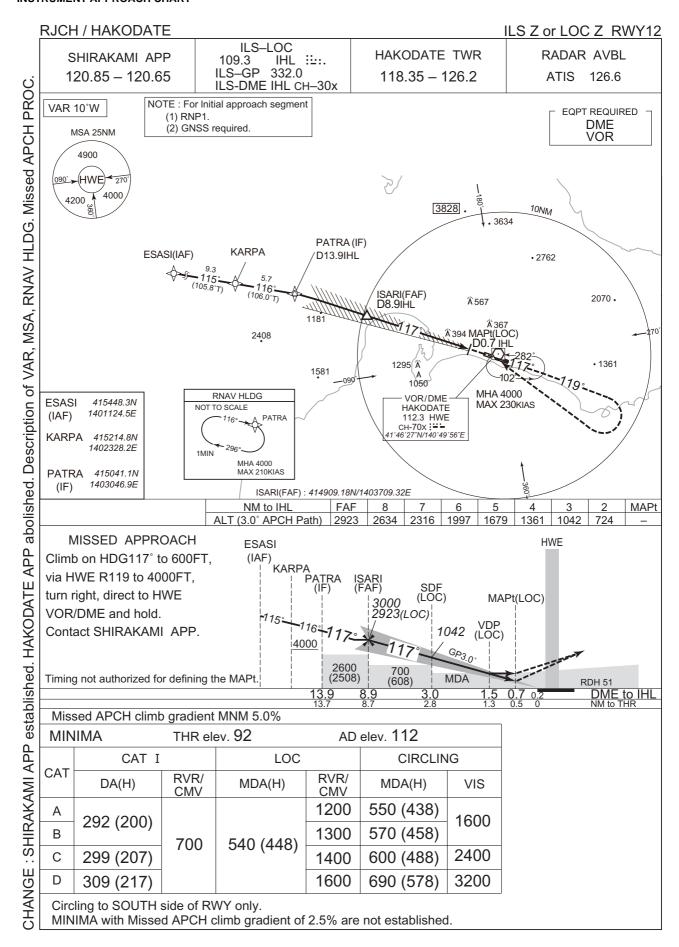
RJCH/HAKODATE	RNAV STAR

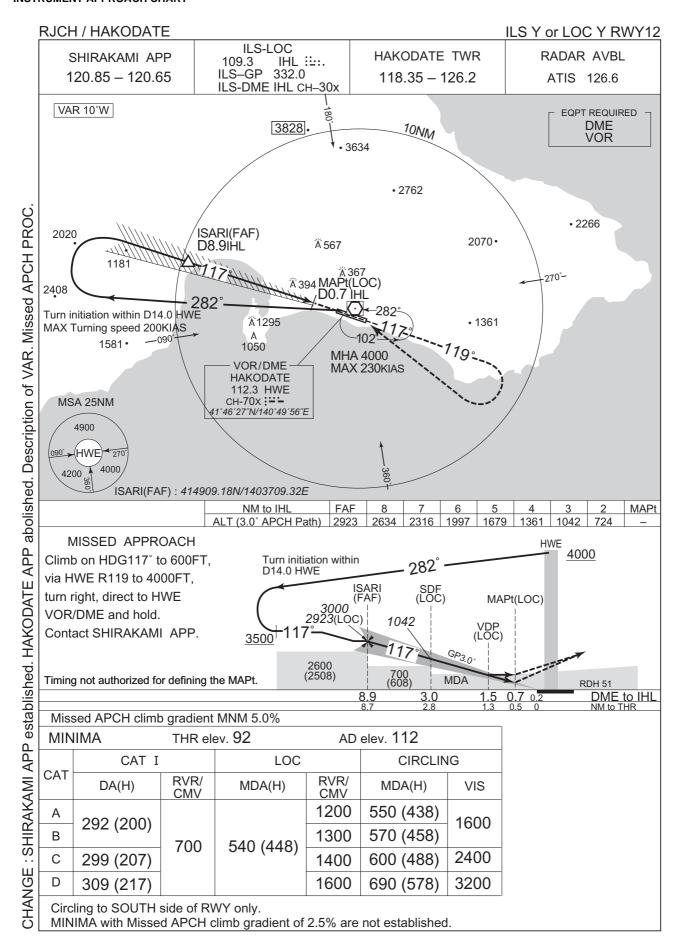
Waypoint Identifier	Coordinates
UPLOK	420119.1N / 1405451.7E
OKTOL	415638.3N / 1410413.3E
CHIYO	414526.1N / 1410614.2E
TAXIR	412632.4N / 1404728.0E
YAKEI	413636.2N / 1405958.0E

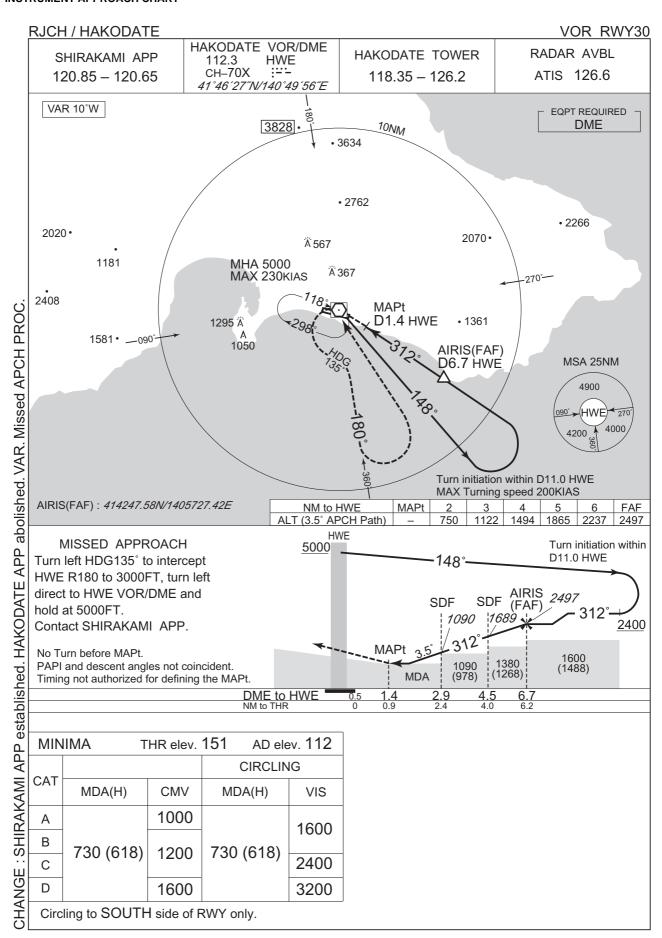


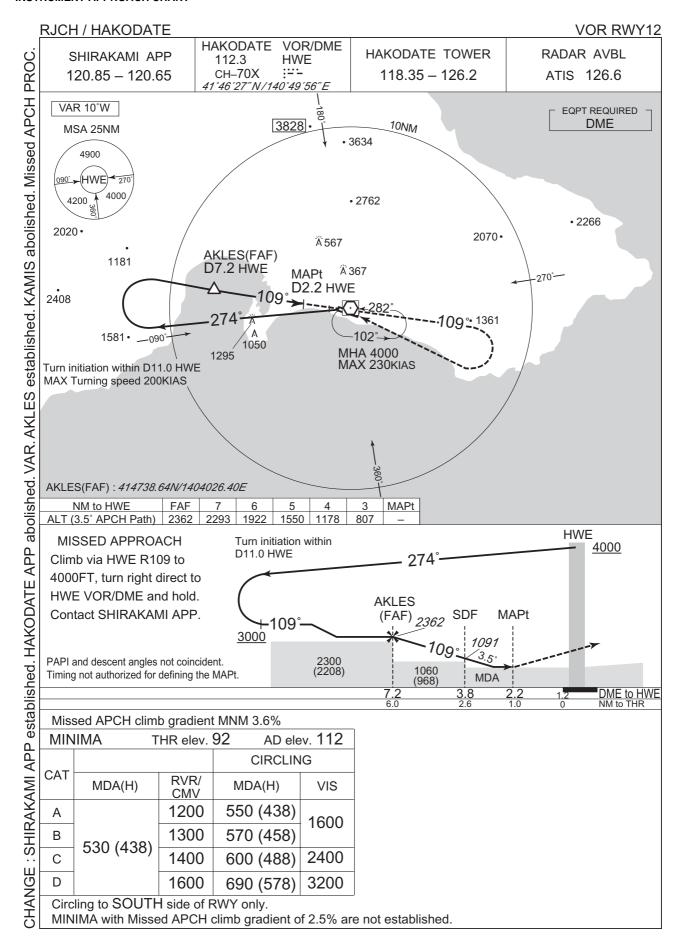
RJCH/HAKODATE RNAV STAR

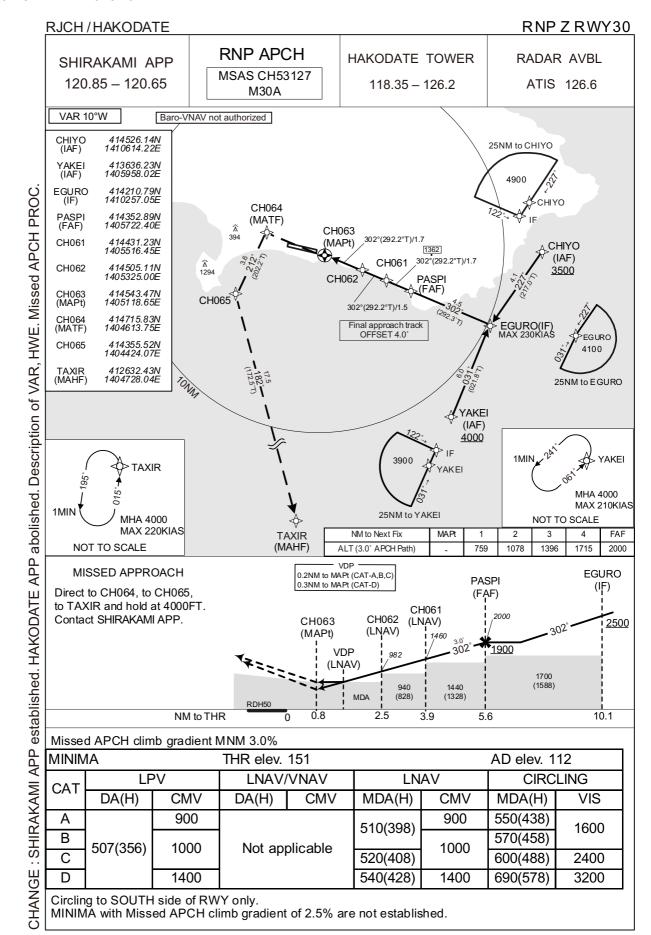
Waypoint Identifier	Coordinates
UPLOK	420119.1N / 1405451.7E
NODES	415943.0N / 1404301.8E
EPKOP	415813.5N / 1403209.6E
PATRA	415041.1N / 1403046.9E
TAXIR	412632.4N / 1404728.0E
KANTA	414635 2N / 1402901 6F











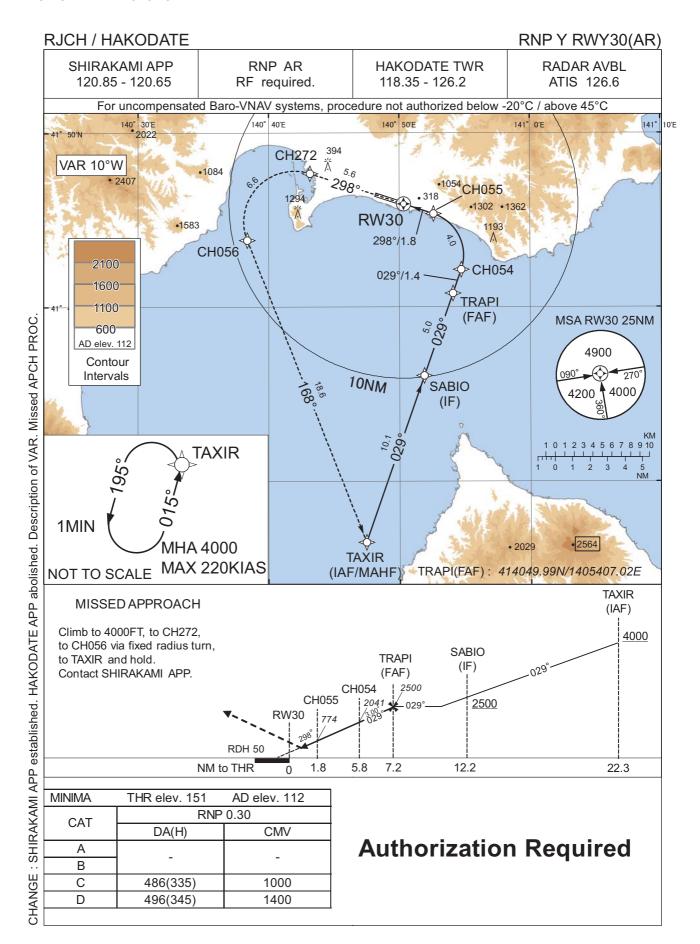
RJCH / HAKODATE

RNP Z RWY30

FAS DATA BLOCK			
Operation type	0	LTP/FTP ellipsoidal height	+00803
SBAS service provider identifier	2	FPAP latitude	414636.9835N
Airport identifier	RJCH	FPAP longitude	1404822.0795E
Runway	30	Threshold crossing height	00015.0
Approach performance designator	0	TCH units selector	1
Route indicator	Z	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M30A	✓ length offset	0000
LTP/FTP latitude	414600.5615N	HAL	40.0
LTP/FTP longitude	1405022.5820E	VAL	50.0
CRC remainder	5F964DC7		

Required additional data

LTP/FTP orthometric height	46.0



RJCH / HAKODATE

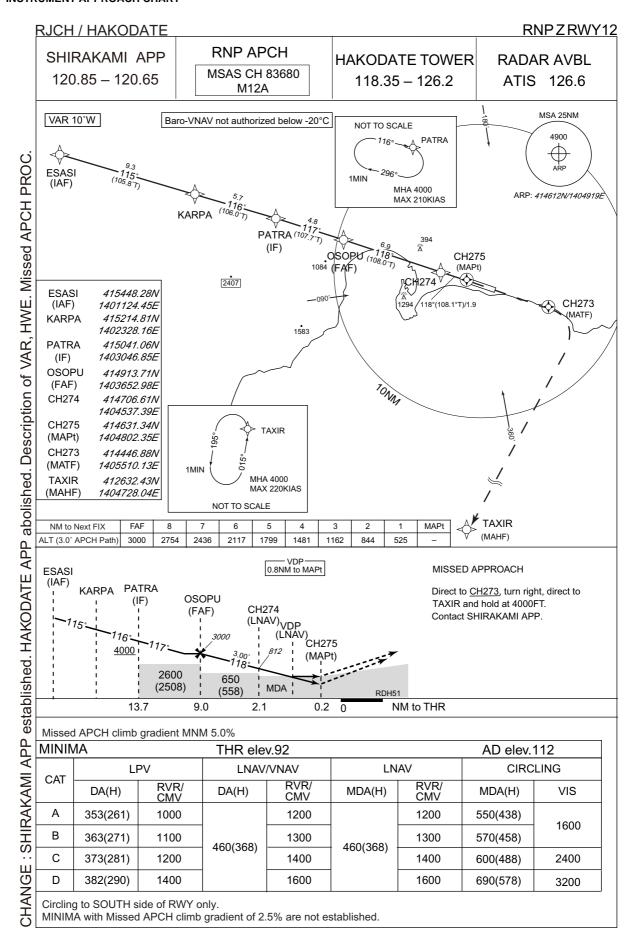
RNP Y RWY30(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	TAXIR	1	-	-9.6	-	-	+4000	-	-	-
002	TF	SABIO	-	029 (019.2)	-9.6	10.1	-	+2500	-	-	1.0
003	TF	TRAPI	-	029 (019.2)	-9.6	5.0	-	2500	-	-	1.0
004	TF	CH054	-	029 (019.2)	-9.6	1.4	-	2041	-	-3.00	0.3
005	RF Center: CHRF3 r=2.50NM	CH055	-	-	-9.6	4.0	L	774	-	-3.00	0.3
006	TF	RW30	Υ	298 (288.1)	-9.6	1.8	-	201	-	-3.00/50	0.3
007	TF	CH272	-	298 (288.1)	-9.6	5.6	-	-	-	-	1.0
008	RF Center: CHRF4 r=2.90NM	CH056	-	-	-9.6	6.6	L	-	-	-	1.0
009	TF	TAXIR	-	168 (158.5)	-9.6	18.6	-	4000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Time	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	TAXIR	015 (005.3)	-9.6	1.0 (-14000)	L	4000	FL140	-220 (-14000)	1.0

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TAXIR	412632.43N / 1404728.04E	CHRF3	414301.30N / 1405136.09E
SABIO	413606.58N / 1405154.81E	CHRF4	414456.26N / 1404159.49E
TRAPI	414049.99N / 1405407.02E		
CH054	414211.71N / 1405445.20E		
CH055	414524.03N / 1405238.26E		
RW30	414557.54N / 1405021.00E		
CH272	414742.10N / 1404311.31E		
CH056	414352.33N / 1403822.94E	1	
		•	



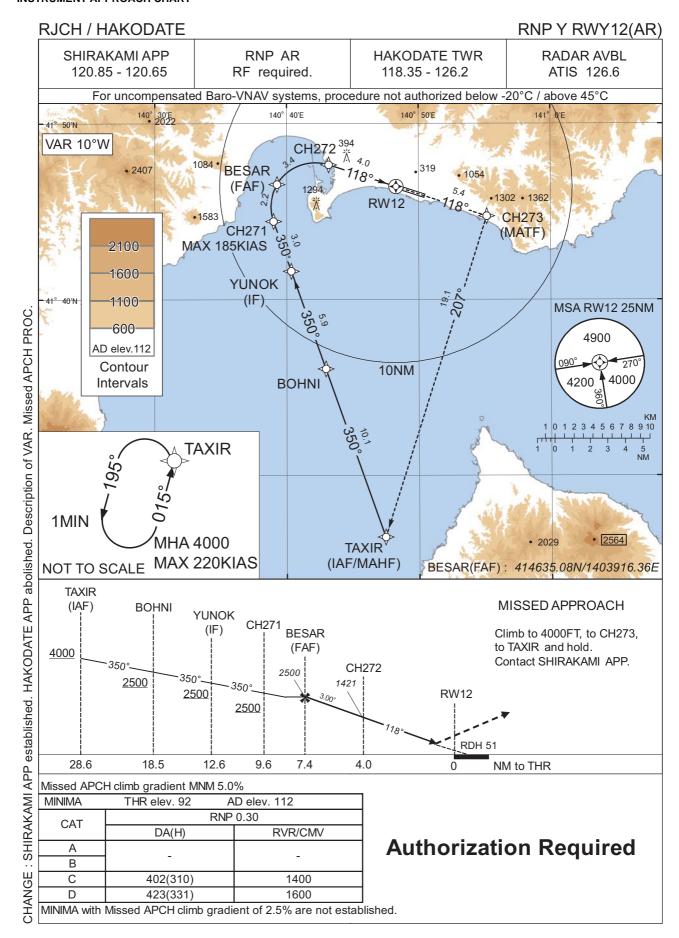
RJCH / HAKODATE

RNP Z RWY12

FAS DATA BLOCK			
Operation type	0	LTP/FTP ellipsoidal height	+00625
SBAS service provider identifier	2	FPAP latitude	414557.5735N
Airport identifier	RJCH	FPAP longitude	1405021.1555E
Runway	12	Threshold crossing height	00015.5
Approach performance designator	0	TCH units selector	1
Route indicator	Z	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M12A	✓ length offset	0000
LTP/FTP latitude	414627.5895N	HAL	40.0
LTP/FTP longitude	1404817.5995E	VAL	50.0
CRC remainder	69B323C3		

Required additional data

- 1		
	LTP/FTP orthometric height	28.1



RJCH / HAKODATE

RNP Y RWY12(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	TAXIR	1	-	-9.6	-	1	+4000	1	1	-
002	TF	BOHNI	-	350 (340.6)	-9.6	10.1	-	+2500	-	-	1.0
003	TF	YUNOK	-	350 (340.6)	-9.6	5.9	-	+2500	-	-	1.0
004	TF	CH271	1	350 (340.5)	-9.6	3.0	-	+2500	-185	ı	1.0
005	RF Center: CHRF5 r=2.50NM	BESAR	,	-	-9.6	2.2	R	2500	-	-	1.0
006	RF Center: CHRF5 r=2.50NM	CH272	1	-	-9.6	3.4	R	1421	-	-3.00	0.3
007	TF	RW12	Υ	118 (108.0)	-9.6	4.0	-	143	-	-3.00/51	0.3
008	TF	CH273	1	118 (108.1)	-9.6	5.4	-	-	-	-	1.0
009	TF	TAXIR	1	207 (197.6)	-9.6	19.1	-	4000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	TAXIR	015 (005.3)	-9.6	1.0 (-14000)	L	4000	FL140	-220 (-14000)	1.0

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TAXIR	412632.43N / 1404728.04E	CHRF5	414519.29N / 1404209.46E
BOHNI	413606.23N / 1404258.19E		
YUNOK	414139.34N / 1404020.87E		
CH271	414429.13N / 1403900.50E		
BESAR	414635.08N / 1403916.36E		
CH272	414742.10N / 1404311.31E		
RW12	414627.62N / 1404817.61E		
CH273	414446.88N / 1405510.13E		
	•	•	



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

	Call sign BRG / DIST from ARP		Remarks
	大沼 Onuma	330°T / 13.9NM	JR駅 JR Station
	桔梗 Kikyo	316°T / 6.4NM	JR駅 JR Station
	矢別 Yabetsu	043°T / 5.7NM	ダム Dam
	恵山岬 Esanmisaki	081°T / 16.5NM	灯台 Lighthouse
ıara).	美原 Mihara	310°T / 3.9NM	NHKラジオアンテナ NHK radio antenna
R)	立待 Tachimachi	252°T / 4.8NM	岬 Cape
om AF	当別 Tobetsu	261°T / 11.5NM	トラピスト修道院 Religious house
:DIST from ARP(Mihara).	汐首岬 Shiokubimisaki	119°T / 7.3NM	灯台 Lighthouse
	5NM S	180°T / 5.0NM	海上 Over the sea
CHANGE	大間崎 Omazaki	163°T / 14.0NM	岬 Cape

LDG CHART



