# **AD 2 AERODROMES**

# **RJSI AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

# **RJSI - HANAMAKI**

# RJSI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	392543N 1410807E 010°/1.25km FM RWY 02 THR			
2	Direction and distance from (city)	6km NNE FM Hanamaki City			
3	Elevation/ Reference temperature	294ft / 29°C(2003-2007)			
4	Geoid undulation at AD ELEV PSN	126ft			
5	MAG VAR/ Annual change	8° W(2009) / 1'E			
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Hanamaki Airport office (Iwate prefectual government) 3-183-1 Kuzu Hanamaki-shi Iwate 025-0004 Japan Tel: 0198-26-2016 Fax: 0198-26-4588 e-mail: CF0003@pref.iwate.jp URL: http://www.pref.iwate.jp			
7	Types of traffic permitted(IFR/VFR)	IFR/VFR			
8	Remarks	Hanamaki Airport Branch(Civil Aviation Bureau) 3-183-1 Kuzu Hanamaki-shi Iwate 025-0004 Japan Tel: 0198-26-2015 Fax: 0198-26-4804			

# **RJSI AD 2.3 OPERATIONAL HOURS**

1	AD Administration	2300 - 1030			
2	Customs and immigration	Customs: On request(0192-26-2326) Immigration: INTL SKED FLT hours only			
		,			
3	Health and sanitation	INTL SKED FLT hours only			
4	AIS Briefing Office	Nil			
5	ATS Reporting Office(ARO)	Nil			
6	MET Briefing Office	H24 (SENDAI)			
7	ATS	2300 - 1030			
8	Fuelling	2300 - 1030			
9	Handling	2300 - 1030			
10	Security	2330 - 1030			
11	De-icing	Nil			
12	Remarks	Nil			

1	Cargo-handling facilities	All the modern institutions that deal with the weight thing to a Boeing 747 type freighter.	
2	Fuel/ oil types	AVGAS 100LL JET A-1	
3	Fuelling facilities/ capacity	AVGAS 100LL : Fuel truck / Ask AD administration JET A-1 : Fuel truck / 200KL x 2tank	
4	De-icing facilities	Nil	
5	Hangar space for visiting aircraft	Ask AD Administration	
6	Repair facilities for visiting aircraft	Nil	
7	Remarks	Nil	

# **RJSI AD 2.5 PASSENGER FACILITIES**

1	Hotels	At Hanamaki City	
2	Restaurants	At Airport	
3	Transportation	Buses and Taxi	
4	Medical facilities	Hospital in Hanamaki city 5km	
5	Bank and Post Office	Bank/ATM at airport	
		Post Office/Postage stamp shop and mailbox at airport	
6	Tourist Office	At Airport	
7	Remarks	Nil	

# **RJSI AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 8	
2	Rescue equipment	Chemical fire fighting truck x 3 , Emergency medical equipments conveyance truck	
3	Capability for removal of disabled aircraft	Ask AD Administration	
4	Remarks	Nil	

# **RJSI AD 2.7 SEASONAL AVAILABILITY-CLEARING**

1	Types of clearing equipment	Snow Removal Equipments: snow plough x 7 , snow sweeper x 4 , rotary snow plough x 3 , anti-freezing-agent spreader x 3
2	Clearance priorities	1.RWY , TWY 2.Apron
3	Remarks	Seasonal availability:All seasons.  Snow removal will be commenced,if the RWY is covered with a depth of 3cm snow or more.

# RJSI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Spot NR 1-5 Surface:concrete, Strength:PCN 74/R/B/X/T W-Apron Surface:concrete, Strength:PCN 52/R/B/X/T Small Aircraft Apron Surface: asphalt, Strength:AUW 5700kg/0.28Mpa	
2	Taxiway width, surface and strength	TWY T1, T4 Width: 28.5m, Surface:asphalt, Strength: PCN 68/F/B/X/T TWY T2, T3 Width: 34m, Surface:asphalt, Strength: PCN 67/F/B/X/T TWY T5 Width: 30m, Surface:asphalt, Strength: PCN 75/F/C/X/T TWY P1-P3 Width: 23m, Surface:asphalt, Strength: PCN 68/F/B/X/T	
3	ACL and elevation	Not available	
4	VOR checkpoints	Not available	
5	INS checkpoints	Spot NR 1: 392521.80N 1410817.13E 2: 392520.04N 1410815.81E 3: 392518.26N 1410816.15E 4: 392516.16N 1410815.68E 5: 392514.55N 1410815.36E	
6	Remarks	Nil	

## RJSI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual dock- ing/ parking guidance system of aircraft stands	ACFT stand ID signs : Nil ACFT stand taxi lane : See AD2.24 AD chart Visual docking guidance system : Nil	
2	RWY and TWY markings and LGT	RWY: 02/20 (Marking) RWY designation, RWY CL, RWY THR, TDZ, Aiming point, RWY side stripe (LGT) RCLL, REDL, RTHL, RENL, RTZL(RWY20), WBAR(RWY20), RWY DIST marker LGT  TWY T1 THRU T5: (Marking) TWY CL, RWY HLDG PSN, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance sign, RWY guard LGT  TWY P1 THRU P3: (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT	
3	Stop bars	Nil	
4	Remarks	(Marking) Overrun area, Apron TWY CL (LGT) Apron flood LGT	

# **RJSI AD 2.10 AERODROME OBSTACLES**

# In approach/TKOF areas

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/LGT	Remarks
RWY02	Building	392451.2N1410801.0E	300ft	- / LIL	
RWY02	Pylon	392451.5N1410747.8E	301ft	-/LIL	
RWY20	Building	392632.6N1410827.6E	312ft	-/-	
RWY20	Pylon	392630.1N1410824.7E	304ft	-/-	
RWY20	Pylon	392630.1N1410824.8E	306ft	-/LIL	
RWY20	Building	392653.2N1410816.1E	347ft	-/LIL	
RWY20	Pylon	392629.8N1410823.9E	303ft	-/-	
RWY20	Pylon	392631.6N1410812.2E	304ft	-/-	
RWY20	Pylon	392631.8N1410813.9E	302ft	-/-	
RWY20	Pylon	392631.5N1410815.9E	302ft	-/-	
RWY20	Pylon	392631.1N1410818.0E	301ft	-/-	
RWY20	Pylon	392630.6N1410820.0E	300ft	-/-	
RWY20	Pylon	392630.2N1410822.0E	301ft	-/-	
RWY20	Pylon	392629.9N1410823.8E	304ft	-/-	
RWY20	Pylon	392629.3N1410825.8E	304ft	-/-	

# In circling area and at AD

Obstacle type	Coordinates	Elevation	Markings/LGT	Remarks
Pylon	392629.2N1410807.5E	346ft	- / LIL	
Pylon	392629.0N1410826.7E	313ft	-/-	
Pylon	392626.4N1410826.7E	316ft	-/-	
Mountain	392405N1410940E	700ft	- /LIM(Red) -	Mt.Koshiou
Tower	392653.9N1410730.9E	441ft	-/-	
Tower	392602.4N1410710.1E	446ft	- / LIL(LIM(white)HJ)	above horizontal surface
Tower	392545.5N1410702.9E	433ft	-/-	
Tower	392431.5N1410628.5E	441ft	- / LIL	
Tower	392716.8N1410721.2E	442ft	-/-	
Tower	392715.5N1410711.9E	442ft	- / LIL(LIM(white)HJ)	above horizontal surface
Tower	392713.8N1410700.6E	438ft	-/-	
Tower	392705.6N1410658.7E	441ft	-/-	
Tower	392656.9N1410701.0E	438ft	-/-	
Pylon	392628.0N1410825.4E	304ft	-/-	
Antenna	392537.9N1410740.3E	437ft	-/-	
Antenna	392640.5N1410714.5E	439ft	-/-	
Antenna	392451.7N1410610.9E	438ft	-/-	
Pylon	392629.1N1410827.0E	317ft	- / LIL	
Building	392454.0N1410740.5E	362ft	- / LIL	
Tower	392655.0N1410650.0E	440ft	-/-	
Tower	392656.0N1410700.0E	434ft	-/-	

# **RJSI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	SENDAI			
2	Hours of service MET Office outside hours	H24 (SENDAI)			
3	Office responsible for TAF preparation Periods of validity	SENDAI 30 Hours			
4	Trend forecast Interval of issuance	Nil			
5	Briefing/ consultation provided	Briefing is available upon inquiry at SENDAI			
6	Flight documentation Language(s) used	C En			
7	Charts and other information available for briefing or consultation	$\begin{array}{c} S_6,\ U_{85},\ U_7,\ U_5,\ U_3,\ U_{25},\ U_2/T_r,\ P_S,\ P_5,\ P_3,\ P_{25},\ P_{SWE},\ P_{SWF},\ P_{SWG},\ P_{SWI}, \\ P_{SWM},\ P_{SW}(domestic),\ E,\ C,\ W_E,\ W_F,\ W_G,\ W_I,\ W,\ N \end{array}$			
8	Supplementary equipment available for providing information	Nil			
9	ATS units provided with information	RADIO			
10	Additional information (limitation of service, etc.)	Nil			

## **RJSI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
02	010.73°	2500×45	PCN 68/F/A/X/T Asphalt Concrete	392503.58N 1410757.62E 135ft	THR ELEV: 283ft
20	190.73°	2500×45	PCN 68/F/A/X/T Asphalt Concrete	392623.24N 1410817.11E 135.5ft	THR ELEV: 297.5ft TDZ ELEV: 297.5ft
Slope of RWY		Strip Dimensions(M)	,	Overrun) sions(M)	Remarks
7		10	11		14
SEE AD2.24 AD chart		2620×300	40 × 300		RWY grooving:2500×45m
	2620×300 193 × (MNM:166 MAX:300)*  *For detail, ask airport administrator				

# **RJSI AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
02 20	2500 2500	2500 2500	2500 2500	2500 2500	Nil Nil

RJSI AD2-6 AIP Japan HANAMAKI

# **RJSI AD 2.14 APPROACH AND RUNWAY LIGHTING**

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color	
1	2	3	4	5	6	7	8	9	
02	SALS (*1) 420m LIH	Green -	PAPI 3.0°/Left 452.4m 74ft	-	2500m 30m Coded color (White/Red) LIH	2500m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)	
20	PALS (CAT I) 900m LIH	Green Green	PAPI 3.0°/Left 429.0m 65.6ft	900m	2500m 30m Coded color (White/Red) LIH	2500m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)	
Remarks									
10									

# RJSI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 392547N/1410755E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI: Nil Anemometer: RWY02: 350m from RWY02 THR, LGTD RWY20: 200m from RWY20 THR, LGTD
3	TWY edge and center line lighting	TWY edge LGT: Blue TWY CL LGT: ALTN Green/Yellow from RWY leaving Report point, other Green
4	Secondary power supply/ switch-over time	Within 1sec: REDL, RTHL, WBAR, RENL, RCLL, Overrun area edge LGT Within 15sec: Other LGT
5	Remarks	WDI LGT

# **RJSI AD 2.16 HELICOPTER LANDING AREA**

		Nil
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# **RJSI AD 2.17 ATS AIRSPACE**

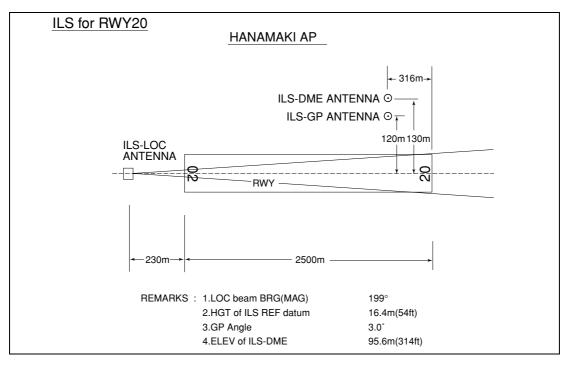
Designation and lateral limits	Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1	2	3	4	6
Area within a radius of 5nm(9km) of Hanamaki ARP	3,000	E	Hanamaki Radio En	

# **RJSI AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
A/G	Hanamaki Radio	118.2MHz(1) 126.2MHz	2300 - 1030	(1)Primary

# **RJSI AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR (8°W/2010)	HPE	112.8MHZ	H24	392600.09N 1410800.60E		VOR unusable : 060°-080° beyond 30nm BLW 9000ft. 280°-290° beyond 30nm BLW 9000ft. 350°-360° beyond 30nm BLW 9000ft.
DME	HPE	1162MHz (CH-75X)	H24	392600.09N 1410800.60E	339ft	DME unusable: 050°-090° beyond 30nm BLW 9000ft. 280°-360° beyond 30nm BLW 9000ft.
ILS-LOC 20	IHP	109.3MHz	2300 - 1030	392456.26N 1410755.86E		LOC : 230m (755ft) away FM RWY 02 THR, BRG (MAG)199°
ILS-GP 20	-	332.0MHz	2300 - 1030	392613.90N 1410809.72E		GP: 316m (1037ft) inside FM RWY 20 THR, 120m (394ft) W of RCL. Angle 3.0° HGT of ILS Ref datum16.5m (54ft).
ILS-DME 20	IHP	991MHz (CH-30X)	2300 - 1030	392613.93N 1410809.29E	314ft	DME:316m (1037ft) inside FM RWY 20 THR, 130m W of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.



# **RJSI AD 2.20 LOCAL TRAFFIC REGULATIONS**

1. Airport	regulations
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	Aircraft operations other than scheduled flights or in an emergency     On use of this airport, aircraft operator is required to obtain the permission of the airport authority.
2. Ta:	xiing to and from stands
	Nil
3. Pa	arking area for small aircraft(General aviation)
	Nil
4. Pa	arking area for helicopters
	Nil
5. Ap	oron - taxiing during winter conditions
	Nil
6. Ta	xiing - limitations
	Nil
7. Sc	shool and training flights - technical test flights - use of runways
	Nil
8. He	elicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

#### **RJSI AD 2.21 NOISE ABATEMENT PROCEDURES**

Nil
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#### **RJSI AD 2.22 FLIGHT PROCEDURES**

### **TAKE OFF MINIMA**

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with	02	A, B, C, D	-	400m	-	400m	-	500m
TKOF ALTN AP Filed	20	A, B, C, D	400m	400m	400m	400m	-	500m
OTHER	02	A B C D	AVBL LDG MINIMA					
	20	A, B, C, D						

### **RJSI AD 2.23 ADDITIONAL INFORMATION**

Nil

# **RJSI AD 2.24 CHARTS RELATED TO AN AERODROME**

Aerodrome/Heliport Chart

Standard Departure Chart - Instrument (OHSHU)

Standard Departure Chart - Instrument (NIIGATA)

Standard Departure Chart - Instrument (HANAMAKI)

Standard Departure Chart - Instrument (SAMBO-RNAV)

Standard Departure Chart - Instrument (HANKA-RNAV)

Standard Arrival Chart - Instrument (REMEN-RNAV)

Standard Arrival Chart - Instrument (WANKO-RNAV) Standard Arrival Chart - Instrument (SIOMO-RNAV)

Standard Arrival Chart - Instrument (SUIHO-RNAV)

Instrument Approach Chart (ILS Z or LOC Z RWY20)

Instrument Approach Chart (ILS Y or LOC Y RWY20)

Instrument Approach Chart (VOR RWY20)

Instrument Approach Chart (VOR RWY02)

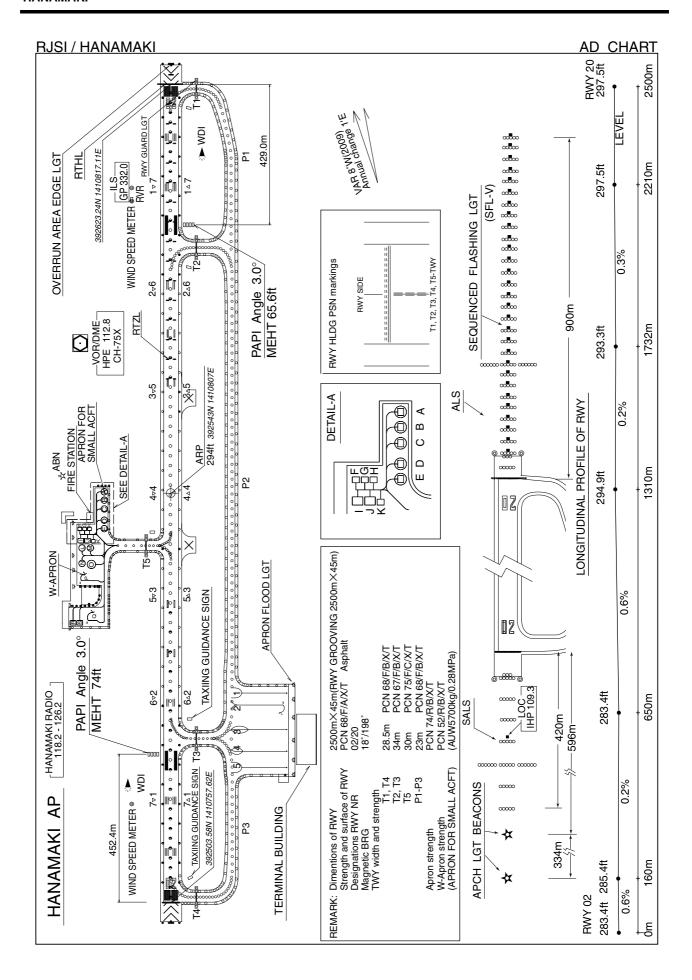
Instrument Approach Chart (RNAV(GNSS) RWY02)

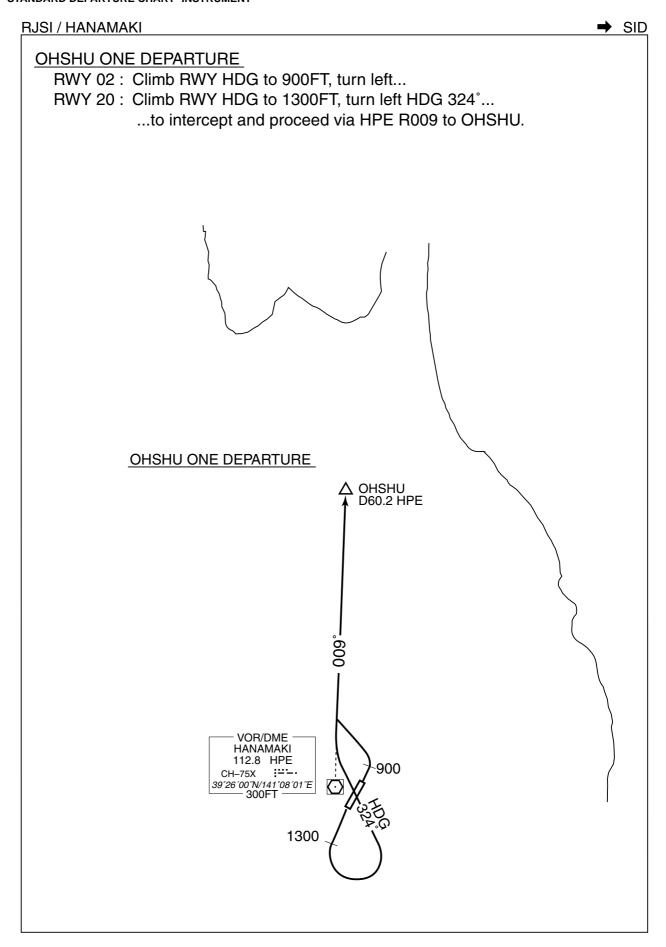
Other Chart (Visual REP)

Other Chart (LDG CHART)

Other Chart (MVA CHART)







RJSI / HANAMAKI SID

# NIIGATA FOUR DEPARTURE

RWY 02: Climb RWY HDG to HPE 3.5 DME, turn right... RWY 20: Climb RWY HDG to HPE 3.5 DME, turn left...

...proceed to HPE VOR/DME, via HPE R236 to GTC VORTAC.

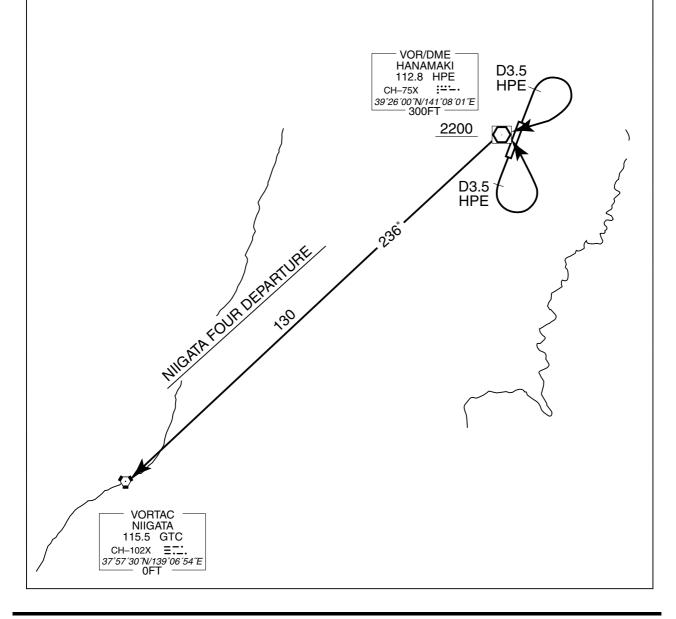
Cross HPE VOR/DME at or above 2200 FT.

Note RWY02: 4.5% climb gradient required up to 2400FT.

OBST ALT 1641FT located at 4.1NM 091° FM end of RWY02.

RWY20: 3.9% climb gradient required up to 1100FT.

OBST ALT 722FT located at 2.8NM 166° FM end of RWY20.



RJSI / HANAMAKI SID

# HANAMAKI REVERSAL TWO DEPARTURE

RWY 02 : Climb RWY HDG to 700FT, via HPE R022 to 6.0 DME, turn right...

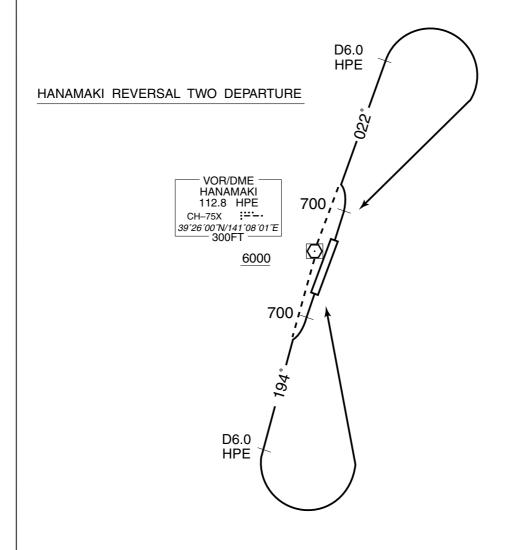
RWY 20: Climb RWY HDG to 700FT, via HPE R194 to 6.0 DME, turn left...

...proceed to HPE VOR/DME.

Cross HPE VOR/DME at or above 6000FT.

Note RWY02: 5.0% climb gradient required up to 3200FT.

OBST ALT 2691FT located at 9.1NM 058° FM end of RWY02.



RJSI / HANAMAKI **RNAV SID** SAMBO ONE DEPARTURE Basic RNP1 Note GNSS required. VAR 9°W (2019) SAMBO 401115.9N 1405701.4E DASCO 395109.2N 1410826.4E AKARI 394317.5N 1410818.3E SAMBO ONE DEPARTURE <u>700</u> SI010 019° 392659.4N 1410155.6E

# SAMBO ONE DEPARTURE

RWY02 : Climb on HDG 019° at or above 700FT, direct to AKARI, to DASCO to SAMBO.

RWY20: Climb on HDG 199° at or above 1300FT, turn right direct to SI010, to AKARI, to DASCO to SAMBO.

1300

199

VOR/DME HANAMAKI

39°26′00″N/141°08′01″E 300FT

112.8

CH-75X

HPE

<u>:--</u>.

Note RWY02: 4.0% climb gradient required up to 700FT.

OBST ALT 318FT located at 0.2NM 061° FM end of RWY02.

RWY20: 4.0% climb gradient required up to 2700FT.

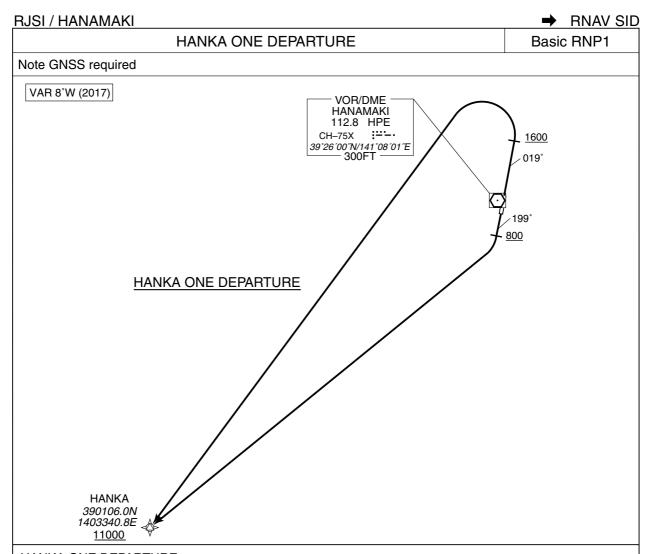
OBST ALT 3117FT located at 10.7NM 350° FM end of RWY20.

## RWY02

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	_	_	019 (010.7)	-8.6	_	_	+700	_	_	Basic RNP1
002	DF	AKARI	_	_	-8.6	_	-	-	_	_	Basic RNP1
003	TF	DASCO	_	009 (000.8)	-8.6	7.9	-	_	_	_	Basic RNP1
004	TF	SAMBO	_	345 (336.6)	-8.6	21.9	_	_	_	_	Basic RNP1

### RWY20

П	TVV I ZU											
	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	_	_	199 (190.7)	-8.6	_	-	+1300	_	_	Basic RNP1
	002	DF	SI010	_	_	-8.6	_	R	-	-	_	Basic RNP1
	003	TF	AKARI	_	025 (016.7)	-8.6	17.0	_	-	-	_	Basic RNP1
	004	TF	DASCO	_	009 (000.8)	-8.6	7.9	-	_	_	_	Basic RNP1
	005	TF	SAMBO	_	345 (336.6)	-8.6	21.9	-	_	_	_	Basic RNP1
1												



## HANKA ONE DEPARTURE

RWY02: Climb on HDG 019° at or above 1600FT, turn left direct to HANKA, at or above 11000FT. RWY20: Climb on HDG 199° at or above 800FT, turn right direct to HANKA, at or above 11000FT.

Note RWY02: 5.0% climb gradient required up to 3600FT.

OBST ALT 1936FT located at 5.5NM 340° FM end of RWY02. OBST ALT 3018FT located at 8.2NM 310° FM end of RWY02.

RWY20: 5.0% climb gradient required up to 5400FT.

199

(190.7)

OBST ALT 4593FT located at 18.2NM 227° FM end of RWY20. OBST ALT 5151FT located at 20.8NM 231° FM end of RWY20.

-8.4

-8.4

### RWY02

001

002

VA

DF

RWY02											
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	_	_	019 (010.7)	-8.4	_	_	+1600	_	_	Basic RNP1
002	DF	HANKA	_	-	-8.4	-	┙	+11000	ĺ	_	Basic RNP1
RWY20											
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

+800

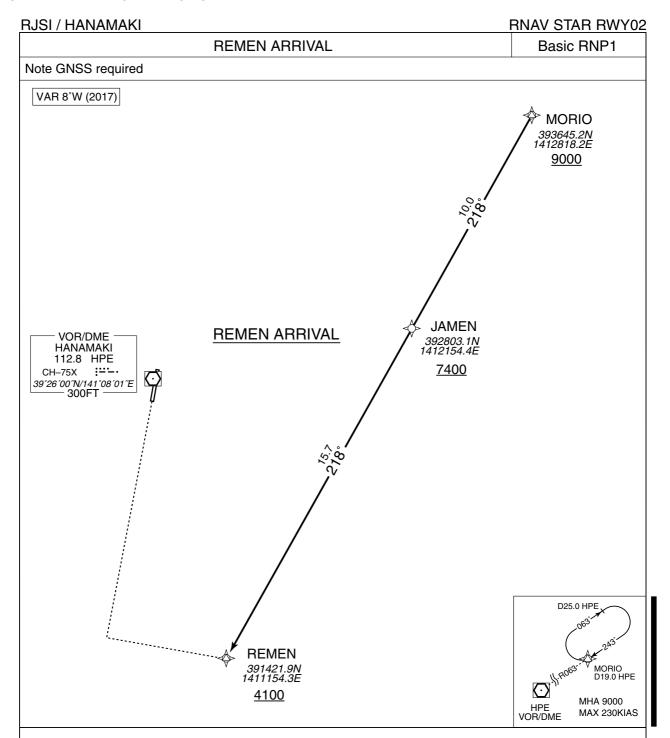
+11000

R

**HANKA** 

Basic RNP1

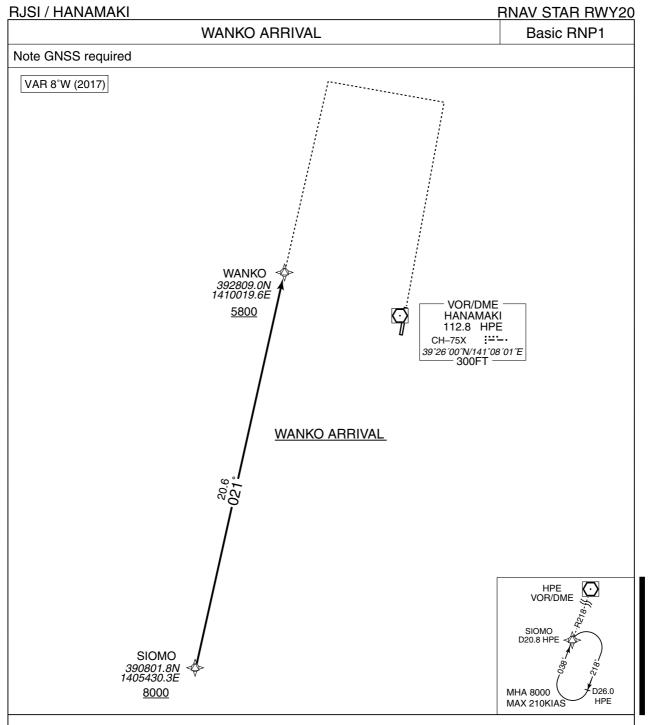
Basic RNP1



# REMEN ARRIVAL

From MORIO at or above 9000FT, to JAMEN at or above 7400FT, to REMEN at or above 4100FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)		Navigation Specification
001	IF	MORIO	_	_	-8.4	_	_	+9000	_	_	Basic RNP1
002	TF	JAMEN	_	218 (209.6)	-8.4	10.0	_	+7400	_	_	Basic RNP1
003	TF	REMEN	_	218 (209.5)	-8.4	15.7	_	+4100	_	_	Basic RNP1

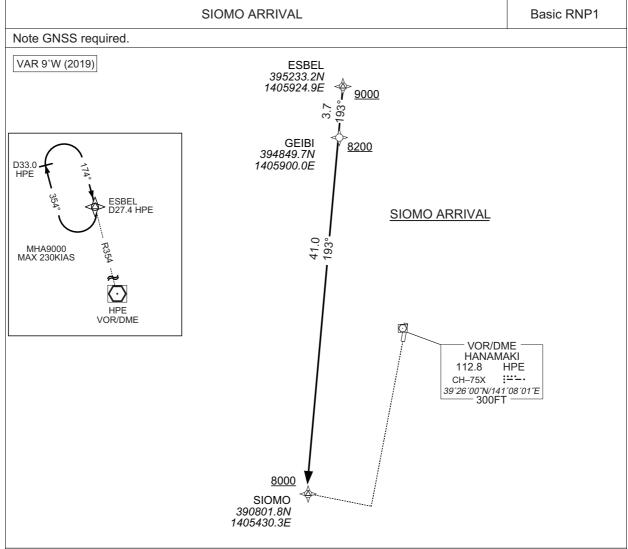


# WANKO ARRIVAL

From SIOMO at or above 8000FT, to WANKO at or above 5800FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	•		Navigation Specification
001	IF	SIOMO	_	_	-8.4	-	_	+8000	_	_	Basic RNP1
002	TF	WANKO	_	021 (012.6)	-8.4	20.6	_	+5800	_	_	Basic RNP1

RJSI / HANAMAKI RNAV STAR RWY02

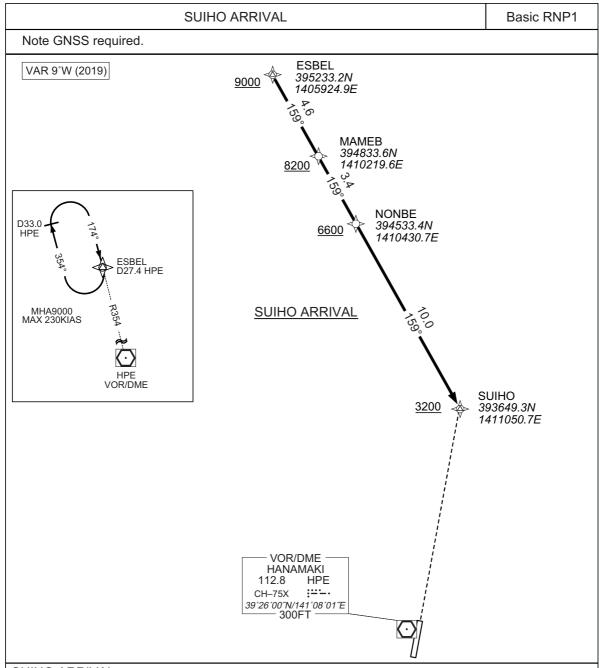


# SIOMO ARRIVAL

From ESBEL at or above 9000FT, to GEIBI at or above 8200FT, to SIOMO at or above 8000FT.

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	ESBEL	_	_	-8.6	_	-	+9000	_	_	Basic RNP1
002	TF	GEIBI	_	193 (184.9)	-8.6	3.7	_	+8200	_	_	Basic RNP1
003	TF	SIOMO	_	193 (184.9)	-8.6	41.0	_	+8000	_	_	Basic RNP1

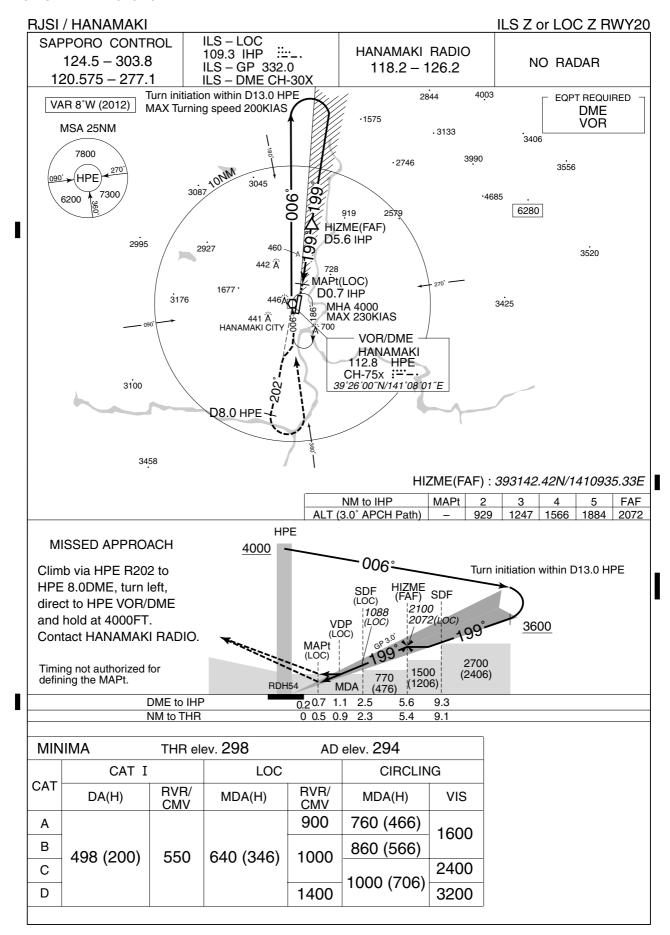
RJSI / HANAMAKI RNAV STAR RWY20

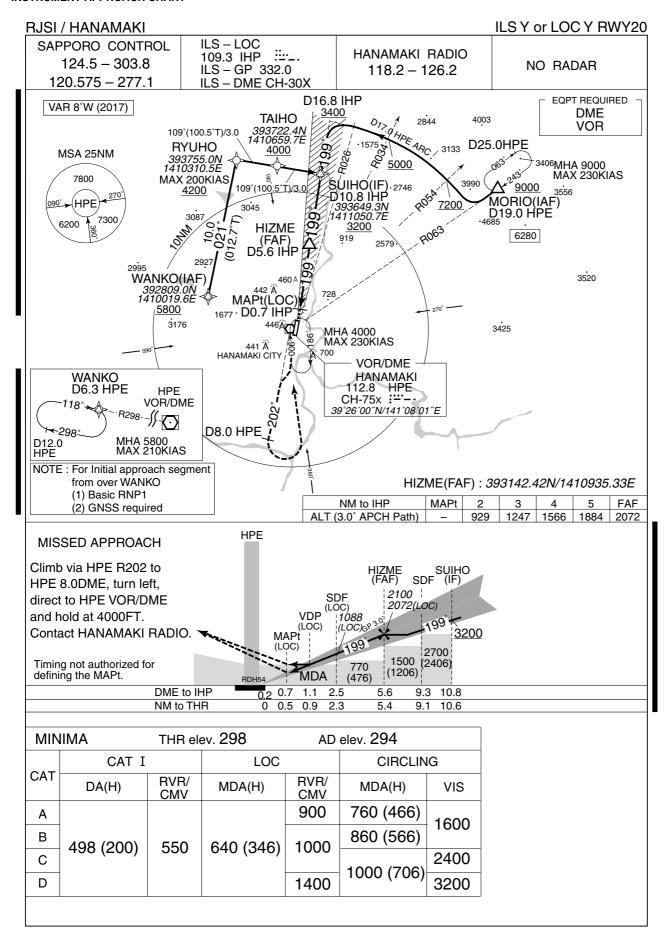


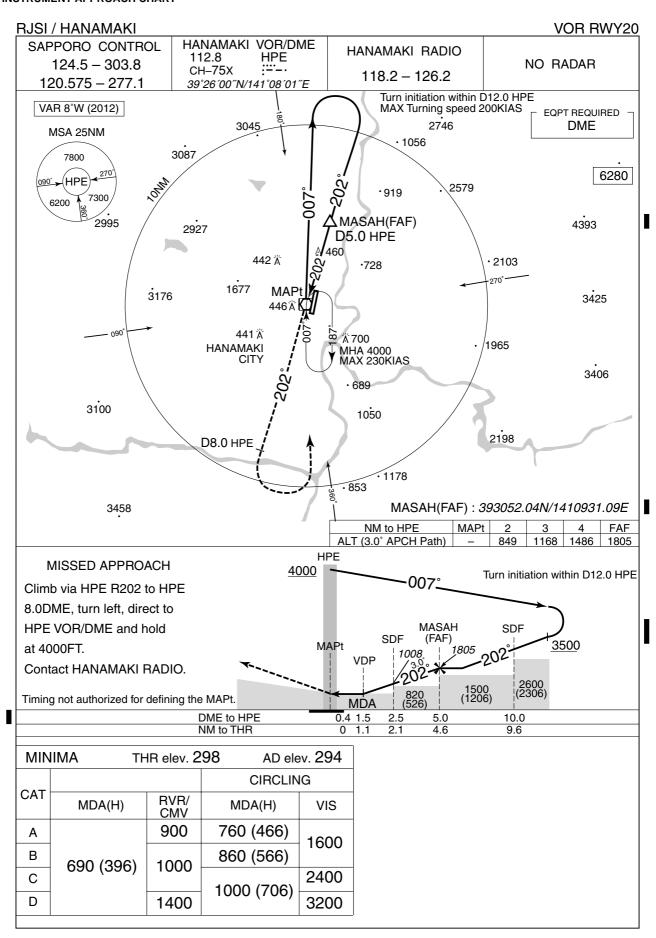
# **SUIHO ARRIVAL**

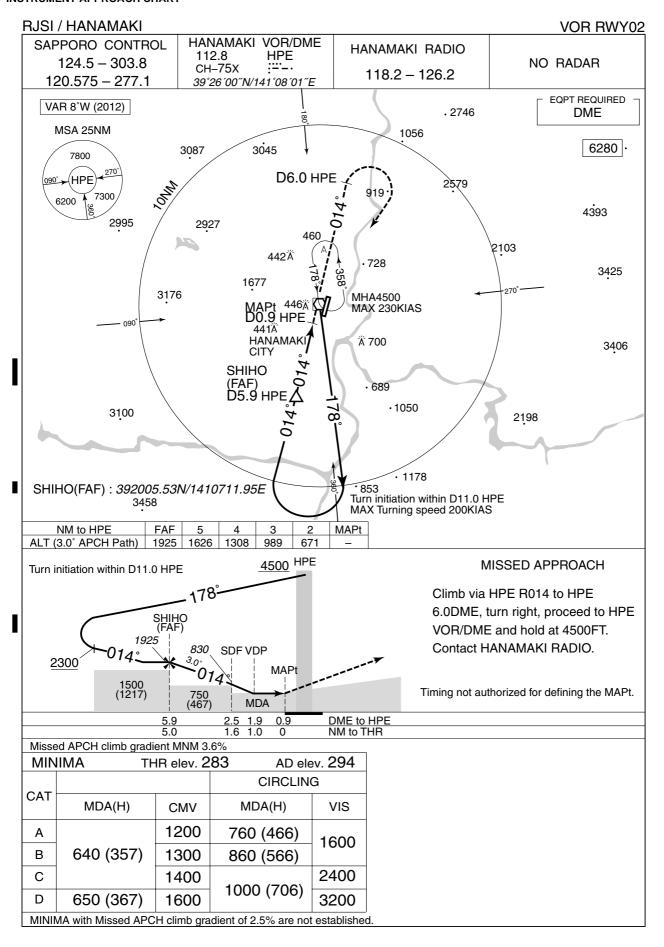
From ESBEL at or above 9000FT, to MAMEB at or above 8200FT, to NONBE at or above 6600FT, to SUIHO at or above 3200FT.

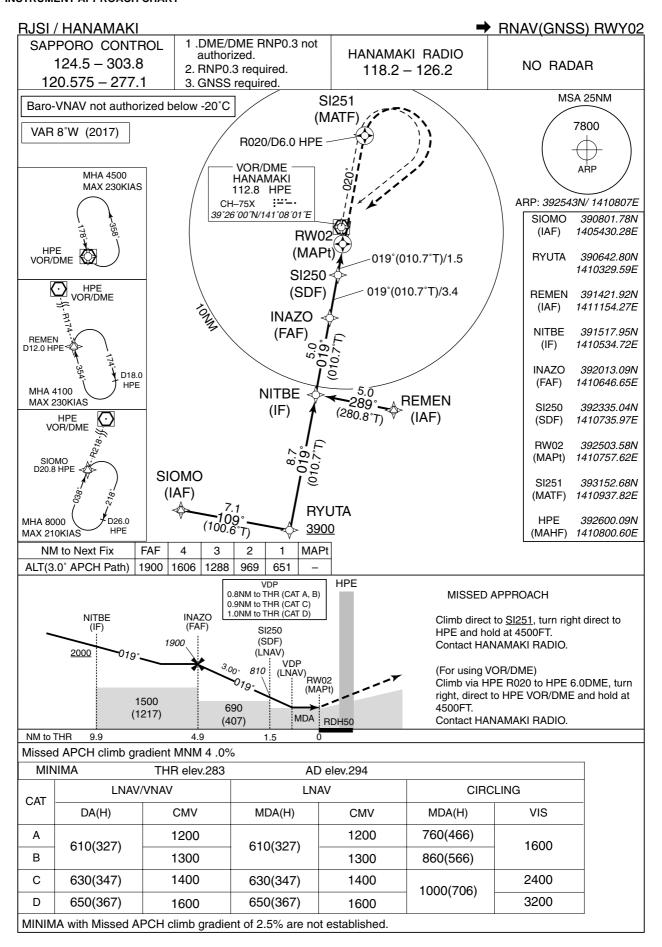
- 1												
)	Serial Number	Path Desc- riptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direc -tion	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
	001	IF	ESBEL	_	_	-8.6	_	_	+9000	-	_	Basic RNP1
2	002	TF	MAMEB	_	159 (150.7)	-8.6	4.6	_	+8200	_	_	Basic RNP1
)	003	TF	NONBE	_	159 (150.8)	-8.6	3.4	_	+6600	_	_	Basic RNP1
	004	TF	SUIHO	_	159 (150.8)	-8.6	10.0	_	+3200	_	_	Basic RNP1
<i>'</i>												

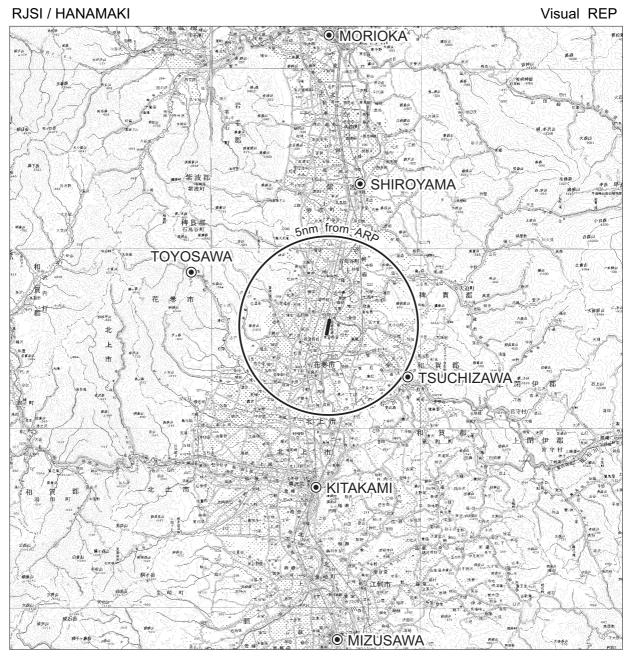












Call sign	BRG / DIST from ARP	Remarks
盛 岡 Morioka	006°/16.5NM	駅 Station
城 山 Shiroyama	018°/ 8.4NM	城跡 The site of a castle
豊 沢 Toyosawa	301°/ 8.0NM	豊沢湖ダム Dam
土 沢 Tsuchisawa	127°/ 5.1NM	駅 Station
北 上 Kitakami	192°/ 8.9NM	駅 Station
水 沢 Mizusawa	186°/17.5NM	駅 Station

