

AD 2 AERODROMES

RJSR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJSR - ODATE-NOSHIRO

RJSR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	401131N/1402218E 109°/1.0km from RWY11 THR
2	Direction and distance from (city)	8.3NM W FM OODATE City
3	Elevation/ Reference temperature	276ft /31°C (1997-2008)
4	Geoid undulation at AD ELEV PSN	126ft
5	MAG VAR/ Annual change	8°W(2006) / 1'E
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Odate-Noshiro Airport Administration Office (Akita prefectural government) 21-144,Wakigami-aza,karamushi-tai,kita-Akita City,AKITA,018-3454 JAPAN. TEL:0186-63-1001 FAX:0186-63-1009 E-mail:oodatenoshirokuukoujimusho@pref.akita.lg.jp
7	Types of traffic permitted (IFR/ VFR)	IFR/VFR
8	Remarks	Nil

RJSR AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 1030
2	Customs and immigration	On request Customs: 018-845-0735 Immigration: 018-895-5221
3	Health and sanitation	Quarantine(human): On request(018-846-8280) Quarantine(animal, plant): Nil
4	AIS Briefing Office	Nil
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24(SENDAL)
7	ATS	2300 - 1030 Remarks: Airport Remote Mobile Communication Service provided by Sendai FSC
8	Fuelling	2300 - 0930
9	Handling	2240 - 0900
10	Security	2300 - 1030
11	De-icing	Nil
12	Remarks	Nil

RJSR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	AVBL up to B767 passenger plane
2	Fuel/ oil types	JET A1
3	Fuelling facilities/ capacity	Fuel truck /200kl
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJSR AD 2.5 PASSENGER FACILITIES

1	Hotels	Nil
2	Restaurants	At Airport
3	Transportation	Bus,Taxi
4	Medical facilities	Nil
5	Bank and Post Office	Nil
6	Tourist Office	Nil
7	Remarks	Nil

RJSR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 7
2	Rescue equipment	Chemical fire fighting truck x 2 Emergency medical equipments conveyance truck x 1
3	Capability for removal of disabled aircraft	Ask AD administration
4	Remarks	Nil

RJSR AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Snow plow x 4, Snow sweeper x 4, rotary x 4, spreader equipment x 1
2	Clearance priorities	RWY, TWY, APRON
3	Remarks	Nil

RJSR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface: Concrete Strength: PCN 55/R/B/X/T
2	Taxiway width, surface and strength	Width 30m Surface: asphalt-Concrete Strength: PCN 75/F/C/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	(Spot NR) 1 401142.42N ,1402218.33E 2 401142.04N ,1402220.50E 3 401141.71N ,1402223.00E 5 401141.37N ,1402225.50E
6	Remarks	Nil

RJSR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY:RWY 11/29 (Marking): RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe, RWY turn pad edge, RWY turn pad CL (LGT): RCLL, REDL, RTHL, RENL, RTZL(RWY11), WBAR, Turning point indicator LGT, RWY DIST marker LGT TWY: (Marking):TWY CL, RWY HLDG PSN, TWY side stripe (LGT):TWY edge LGT, TWY CL LGT, Taxiing guidance sign
3	Stop bars	Nil
4	Remarks	(Marking):Overrun area (LGT):Apron flood LGT

RJSR / ODATE-NOSHIRO

180° Turn on RWY

B767 型機用の滑走路 180° 転回実施要領

1. 滑走路中心線からターニングパッド中心線標識に従って進行する。
2. 転回灯 1 が一直線に見えるように進行し、転回灯 2 が一直線に見えたとき転回を開始する。転回時は MAX STEERING ANGLE を使用する。

180° turn procedure on RWY for B767 aircraft

1. Proceed along the RWY Center Line to the starting point of the RWY Turn Pad Center Line Marking ; then
2. Proceed along the RWY Turn Pad Center Line Marking to see the Turning Point Indicator Light 1 on a straight line, then commence turn at the spot where you (pilot) can see the Turning Point Indicator Light 2 on a straight line at an angle of 9 o'clock. When turning, take MAX STEERING ANGLE.

ODATE-NOSHIRO AP

RJSR AD 2.10 AERODROME OBSTACLES

■ In Area2 See Obstacle data

■ In Area3 To be developed

RJSR 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	Nil
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	S ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U ₂ /T ₁ , 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
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	REMOTE
10	Additional information(limitation of service, etc.)	Nil

RJSR 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
11	100.30°	2000×45	PCN 75/F/C/X/T Asphalt-Concrete	401136.37N 1402135.51E 125.7FT	THR ELEV:259.2FT TDZ ELEV:269FT
29	280.30°	2000×45	PCN 75/F/C/X/T Asphalt-Concrete	401125.10N 1402258.78E 126FT	THR ELEV:292.0FT
Slope of RWY		Strip Dimensions(M)	RESA (Overrun) Dimensions (M)		Remarks
7		10	11		14
See below figure		2120×300	190×(MNM:149 MAX:297)*		RWY Grooving : 2000×45m
		2120×300	40×(MNM:250 MAX:300)*		
		*For detail, ask airport administrator			
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RJSR AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
11	2000	2000	2000	2000	Nil
29	2000	2000	2000	2000	Nil

RJSR 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
11	PALS (CAT I) 900m LIH	Green Green	PAPI 3.0°/Left 347.2m 61ft	900m	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
29	SALS (*1) 420m LIH	Green Nil	PAPI 3.0°/Left 414.9m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
Remarks								
10								
SALS with APCH LGT beacon(570m and 900m FM RWY 29 THR)(*1) Overrun area edge LGT(LEN:60m Color:Red) (*2) CGL for RWY 29 only								

RJSR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 401148N/1402216E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer : RWY11:300m from RWY11 THR. LGTD RWY29:300m from RWY29 THR. LGTD
3	TWY edge and centerline lighting	TWY edge and center line lights installed, see AD 2.9
4	Secondary power supply/ switch-over time	Within 15sec : ALL LGT
5	Remarks	WDI LGT

RJSR AD 2.16 HELICOPTER LANDING AREA

Nil

RJSR 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
Odate Noshiro information zone	Area within a radius of 9km(5NM) of Odate-Noshiro ARP.	3,000 or below	E	Odate Remote En	

RJSR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
A/G	Odate Remote	118.75MHz	2300 - 1030	RAG Controlled by Sendai FSC

RJSR 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 (9°W/2015)	ODE	114.75MHz	2300 - 1030	401154.03N/ 1402142.68E		VOR unusable: 010°-020° beyond 35nm BLW 8000ft. 100°-110° beyond 35nm BLW 6000ft. 110°-130° beyond 35nm BLW 9000ft. 150°-160° beyond 30nm BLW 8000ft. 320°-340° beyond 35nm BLW 6000ft. 340°-350° beyond 25nm BLW 6000ft. 350°-360° beyond 35nm BLW 8000ft.
DME	ODE	1055MHz (CH-94Y)	2300 - 1030	401154.03N/ 1402142.68E	308ft	DME unusable: 100°-110° beyond 35nm BLW 6000ft. 110°-130° beyond 35nm BLW 9000ft. 150°-160° beyond 30nm BLW 8000ft. 320°-340° beyond 35nm BLW 6000ft. 340°-350° beyond 35nm BLW 6000ft. 350°-360° beyond 35nm BLW 8000ft.
ILS-LOC 11	IOD	110.15MHz	2300 - 1030	401123.77N/ 1402308.57E		LOC:235m(771ft) away FM RWY 29 THR, BRG(MAG)110°.
ILS-GP 11	-	334.25MHz	2300 - 1030	401130.74N/ 1402146.51E		GP:287m(942ft) inside FM RWY 11 THR. 125m(410ft) S of RCL. HGT of ILS REF datum 16.5m (54ft). GP angle 3.0°.
ILS-DME 11	IOD	1125MHz	2300 - 1030	401130.42N/ 1402146.43E	278ft	DME:287m(942ft) inside FM RWY 11 THR. 135m(443ft) S of RCL.



RJSR AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Nil

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJSR AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJSR AD 2.22 FLIGHT PROCEDURES**1.TAKE OFF MINIMA**

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	11	A, B, C, D	200'-800m	200'-800m	200'-800m	200'-800m	-	200'-800m
	29	A, B, C, D	-	200'-800m	-	200'-800m	-	200'-800m
OTHER	11	A, B, C, D	AVBL LDG MINIMA					
	29	A, B, C, D						

RJSR AD 2.23 ADDITIONAL INFORMATION

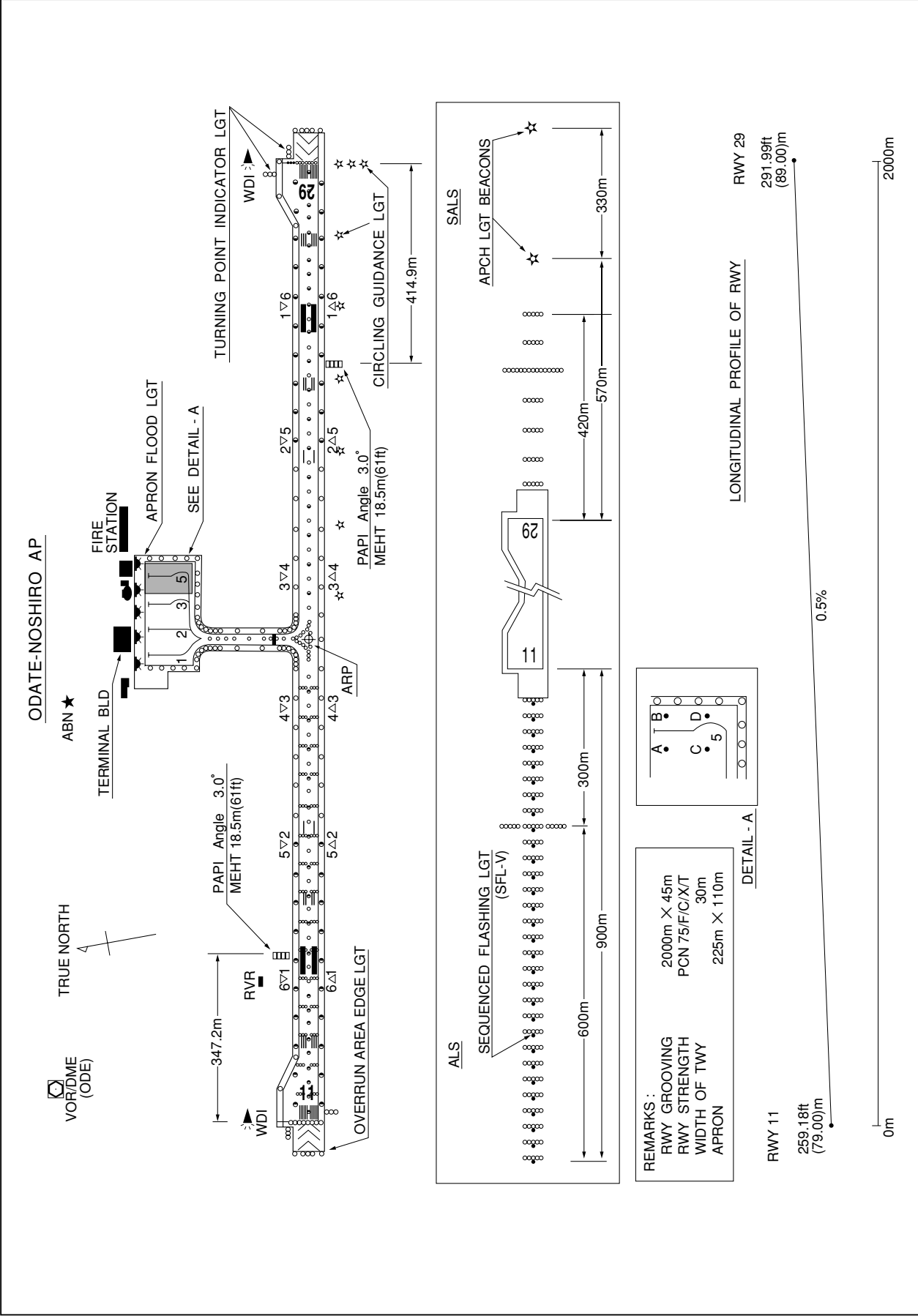
Nil

RJSR AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
 Standard Departure Chart - Instrument (ODATE REVERSAL)
 Standard Departure Chart - Instrument (LAGOON)
 Standard Arrival Chart - Instrument
 Instrument Approach Chart (ILS Z or LOC Z RWY11)
 Instrument Approach Chart (ILS Y or LOC Y RWY11)
 Instrument Approach Chart (VOR A)
 Instrument Approach Chart (RNAV(RNP) Z RWY29)
 Instrument Approach Chart (RNAV(RNP) Y RWY29)
 Other Chart (Visual REP)
 Other Chart (LDG CHART)
 Other Chart (MVA CHART)

RJSR / ODATE-NOSHIRO

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

ODATE REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to 6.0DME, turn left, direct to ODE VOR/DME.

Cross ODE VOR/DME at or above 6000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

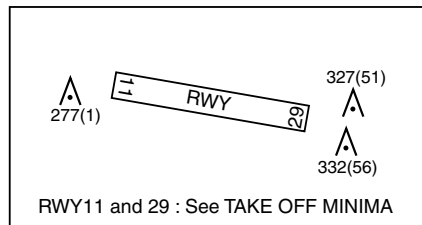
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

ODATE REVERSAL TWO DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

LAGOON THREE DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to NOSSY, turn left, via UWE R360 to UWE VOR/DME.

Cross NOSSY at or above 3000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

LAGOON THREE DEPARTURE

STANDARD ARRIVAL CHART - INSTRUMENT

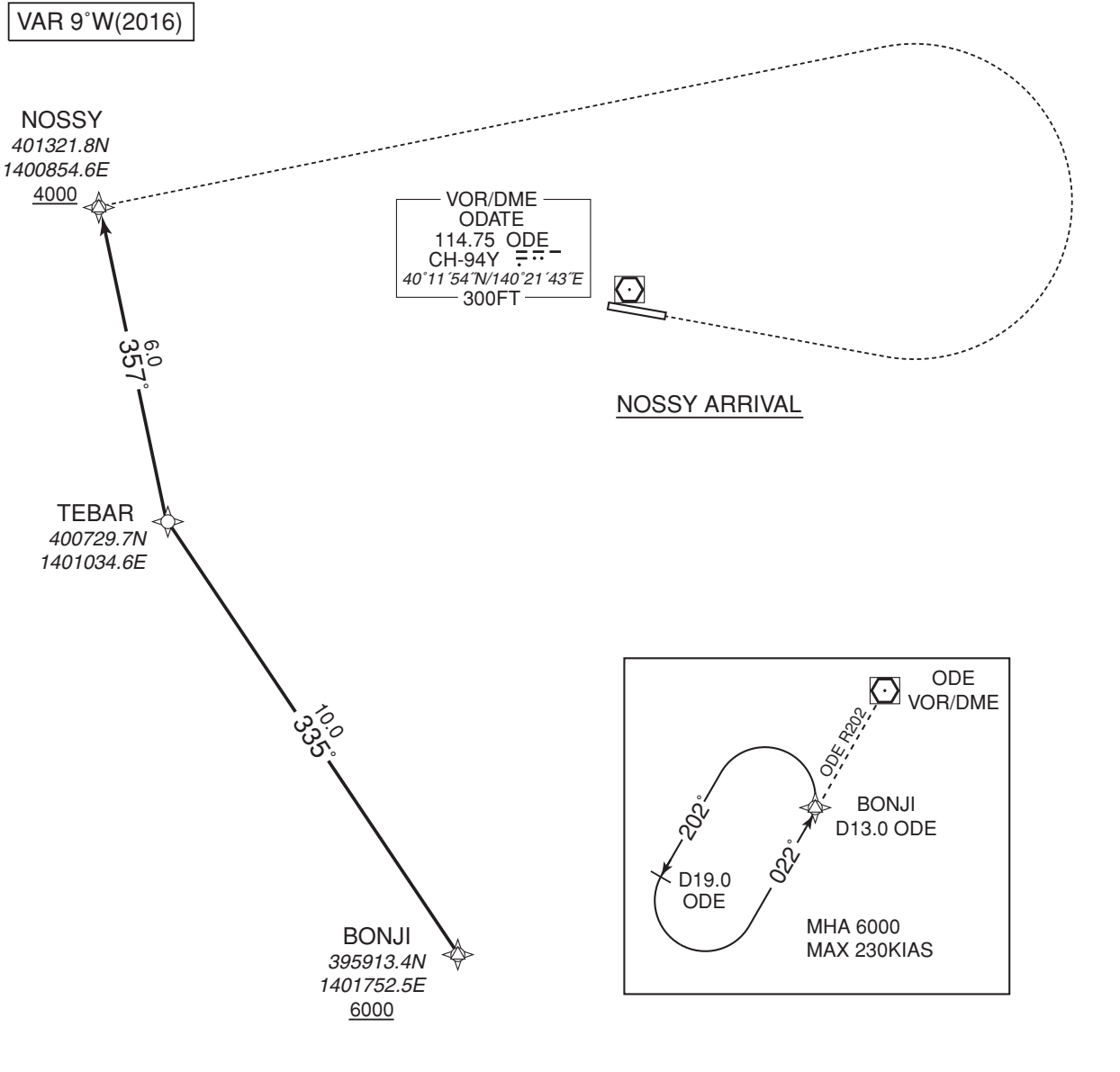
RJSR / ODATE-NOSHIRO

RNAV STAR RWY29

NOSSY ARRIVAL

Basic RNP1

Note GNSS required.



NOSSY ARRIVAL

From BONJI at or above 6000FT, to TEBAR, to NOSSY at or above 4000FT.

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	BONJI	—	—	-8.8	—	—	+6000	—	—	Basic RNP1
002	TF	TEBAR	—	335 (326.0)	-8.8	10.0	—	—	—	—	Basic RNP1
003	TF	NOSSY	—	357 (347.8)	-8.8	6.0	—	+4000	—	—	Basic RNP1

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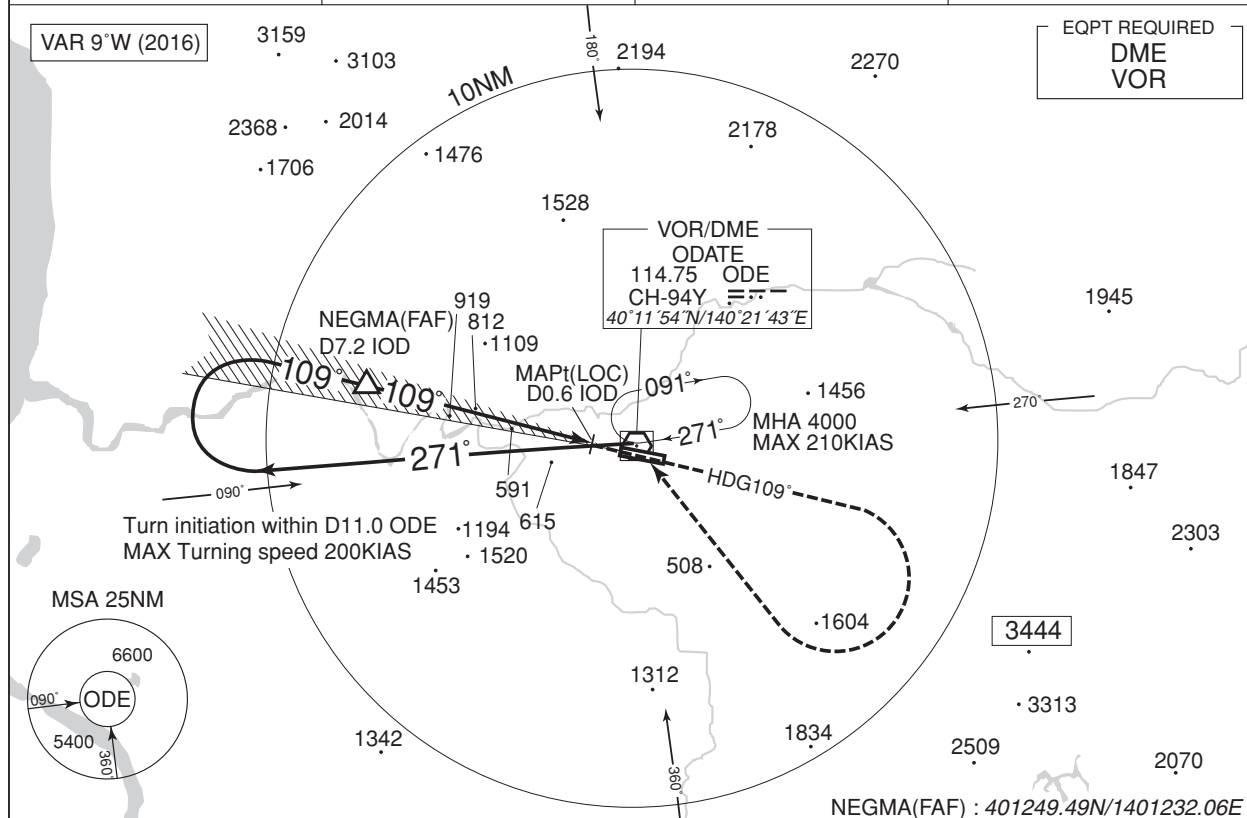
ILS Z or LOC Z RWY11



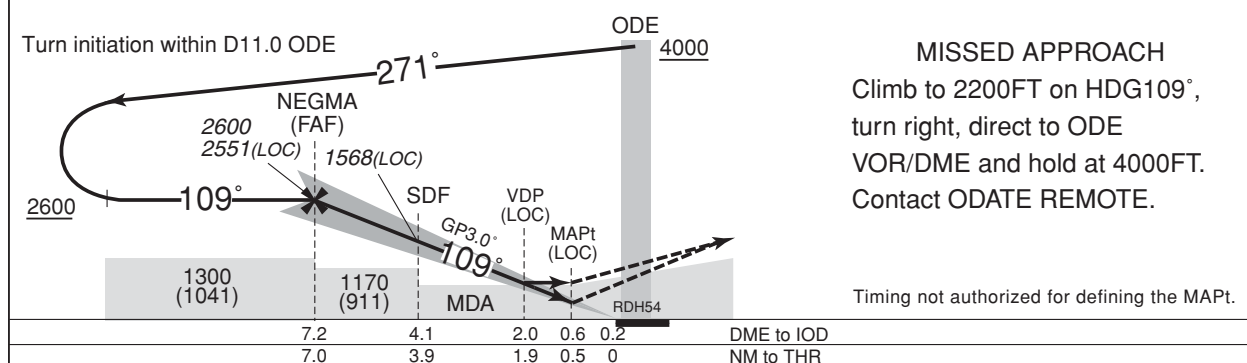
INSTRUMENT APPROACH CHART

ILS Y or LOC Y RWY11

SAPPORO CONTROL 127.575 - 315.3 120.575 - 277.1	ILS - LOC 110.15 IOD 33- ILS-GP 334.25 ILS-DME CH-38Y	ODATE REMOTE 118.75	NO RADAR
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NM to IOD	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2551	2487	2169	1850	1532	1214	895	—



Missed APCH climb gradient MNM 5.0%

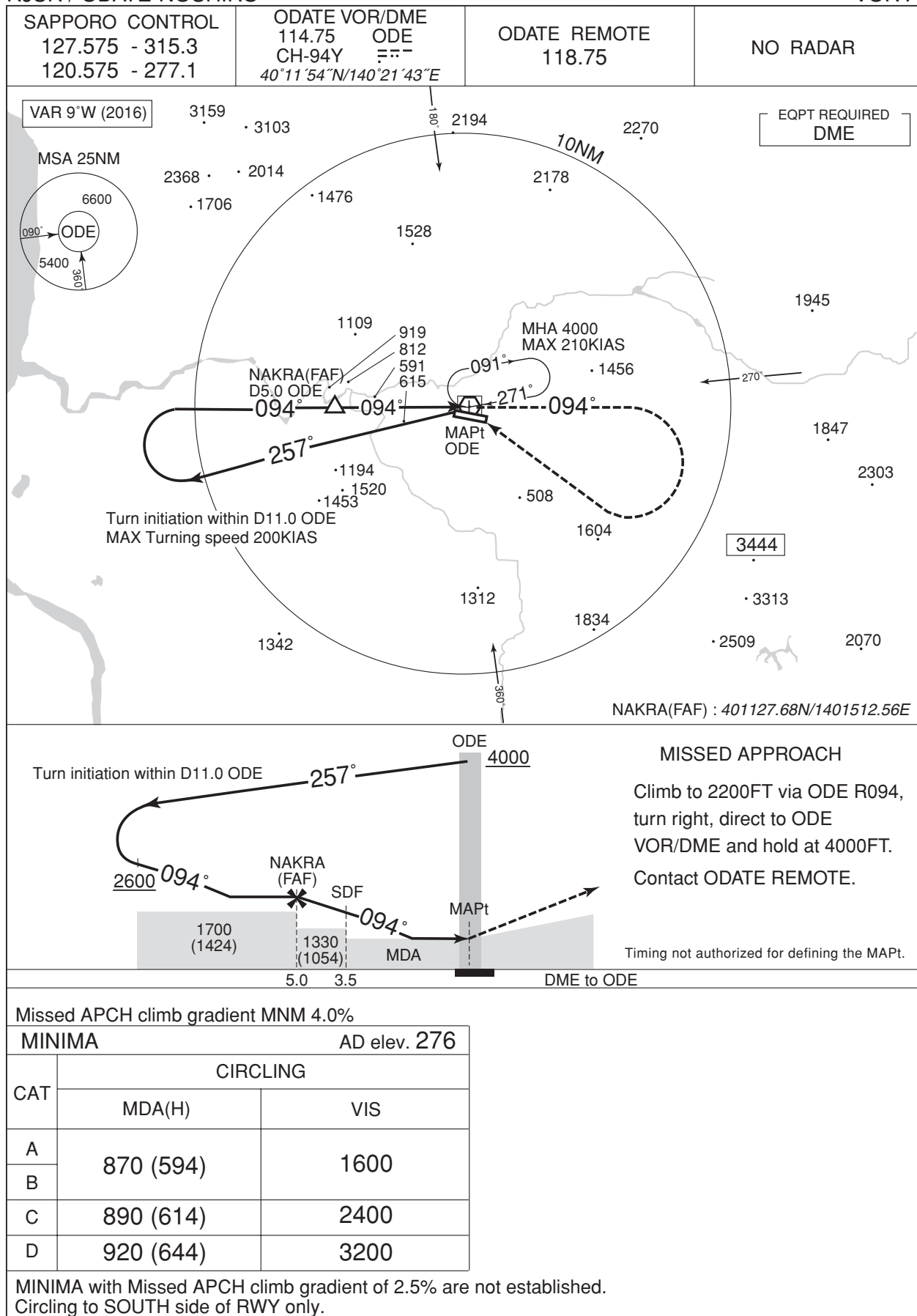
MINIMA		THR elev. 259		AD elev. 276		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	459 (200)	550	870 (611)	1000	870 (594)	1600
B				1200		
C					890 (614)	2400
D				1600	920 (644)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

VOR A



INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

SAPPORO CONTROL
127.575 - 315.3
120.575 - 277.1

GNSS and RF required.

ODATE REMOTE
118.75

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C

VAR 8°W (2011)

NOT TO SCALE

NOSSY
(MAHF)

D9.9 ODE

VOR/DME

ODATE

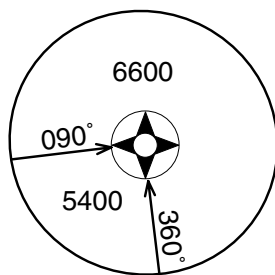
114.75 ODE

CH-94Y

40°11'54"N/140°21'43"E

MHA4000
MAX 230KIAS

MSA RW29 25NM

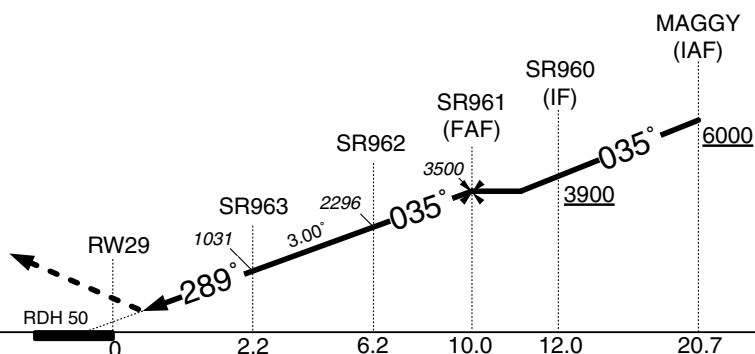


SR961(FAF) : 400434.91N/1402536.32E

MISSED APPROACH

Climb to 4000FT, to NOSSY
and hold.

Contact ODATE REMOTE.



MINIMA THR elev. 292

AD elev. 276

RNP 0.27

RNP 0.30

CAT	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	592(300)	1400	643(351)	1400
D	-	-	-	-

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

RNAV(RNP) Z RWY29
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	MAGGY	—	—	-8.5	—	—	+6000	—	—	—
002	TF	SR960	—	035 (026.1)	-8.5	8.7	—	+3900	—	—	1.0
003	TF	SR961	—	035 (026.1)	-8.5	2.0	—	3500	—	—	1.0
004	TF	SR962	—	035 (026.1)	-8.5	3.8	—	2296	—	-3.00	0.27 0.30
005	RF Center: SRRF1 r=2.15NM	SR963	—	—	-8.5	4.0	L	1031	—	-3.00	0.27 0.30
006	TF	RW29	Y	289 (280.1)	-8.5	2.2	—	342	—	-3.00/50	0.27 0.30
007	TF	NOSSY	—	289 (280.3)	-8.5	10.9	—	4000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MAGGY	395456.61N / 1401926.80E	SRRF1	400855.54N / 1402516.24E
SR960	400247.11N / 1402427.29E		
SR961	400434.91N / 1402536.32E		
SR962	400758.60N / 1402746.93E		
SR963	401102.48N / 1402545.54E		
RW29	401125.10N / 1402258.78E		
NOSSY	401321.82N / 1400854.64E		

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

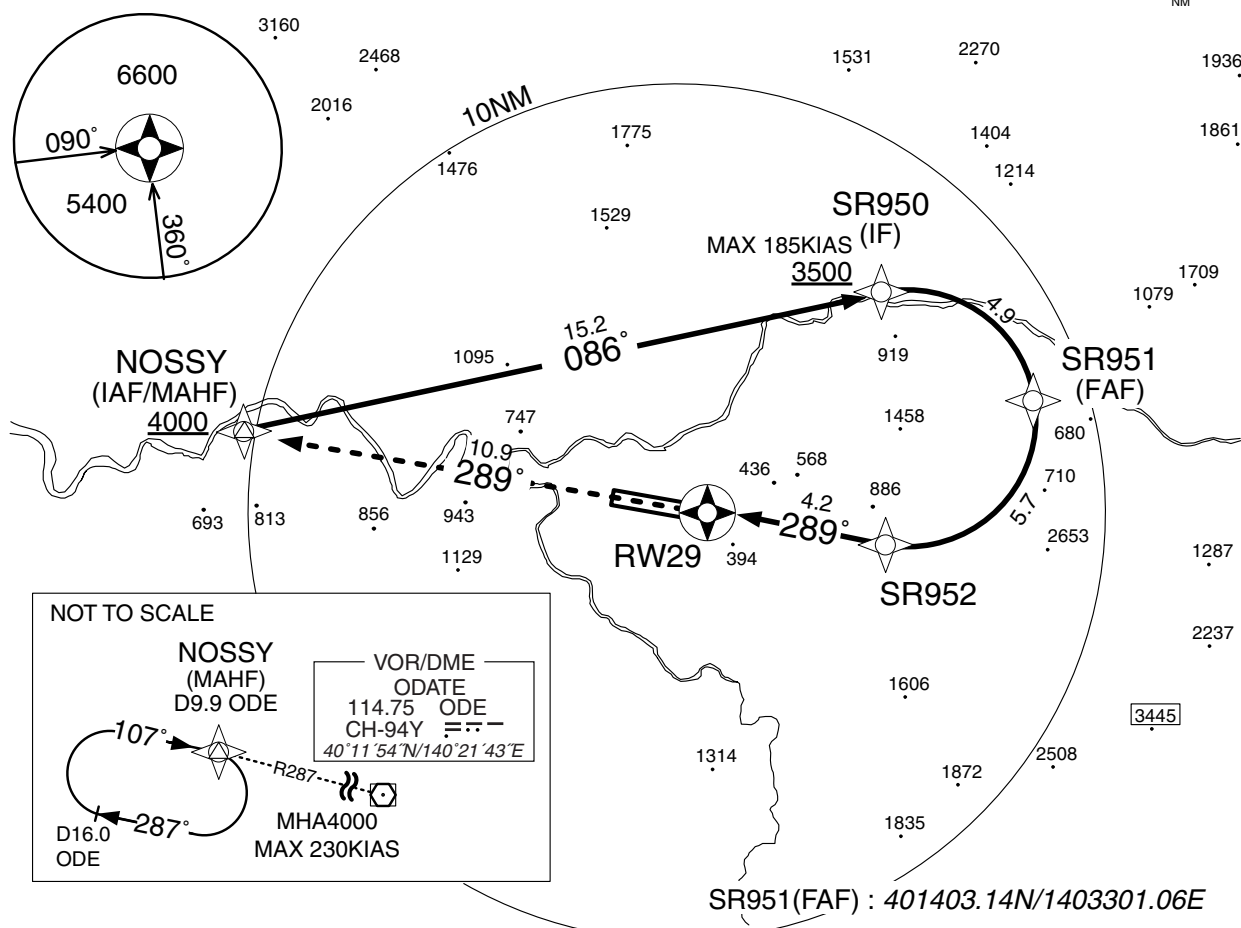
RNAV(RNP) Y RWY29

SAPPORO CONTROL 127.575 - 315.3 120.575 - 277.1	GNSS and RF required.	ODATE REMOTE 118.75	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C

VAR 8°W (2011)

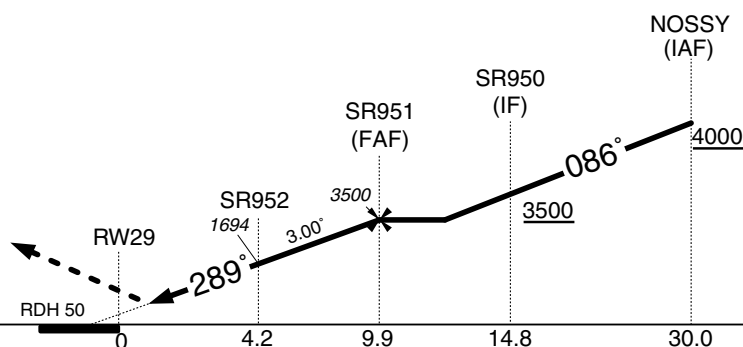
MSA RW29 25NM



MISSED APPROACH

Climb to 4000FT, to NOSSY
and hold.

Contact ODATE REMOTE.



MINIMA THR elev. 292 AD elev. 276

CAT	RNP 0.27		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	592(300)	1400	643(351)	1400
D	-	-	-	-

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Y RWY29

RNAV(RNP) Y RWY29
Coding Table

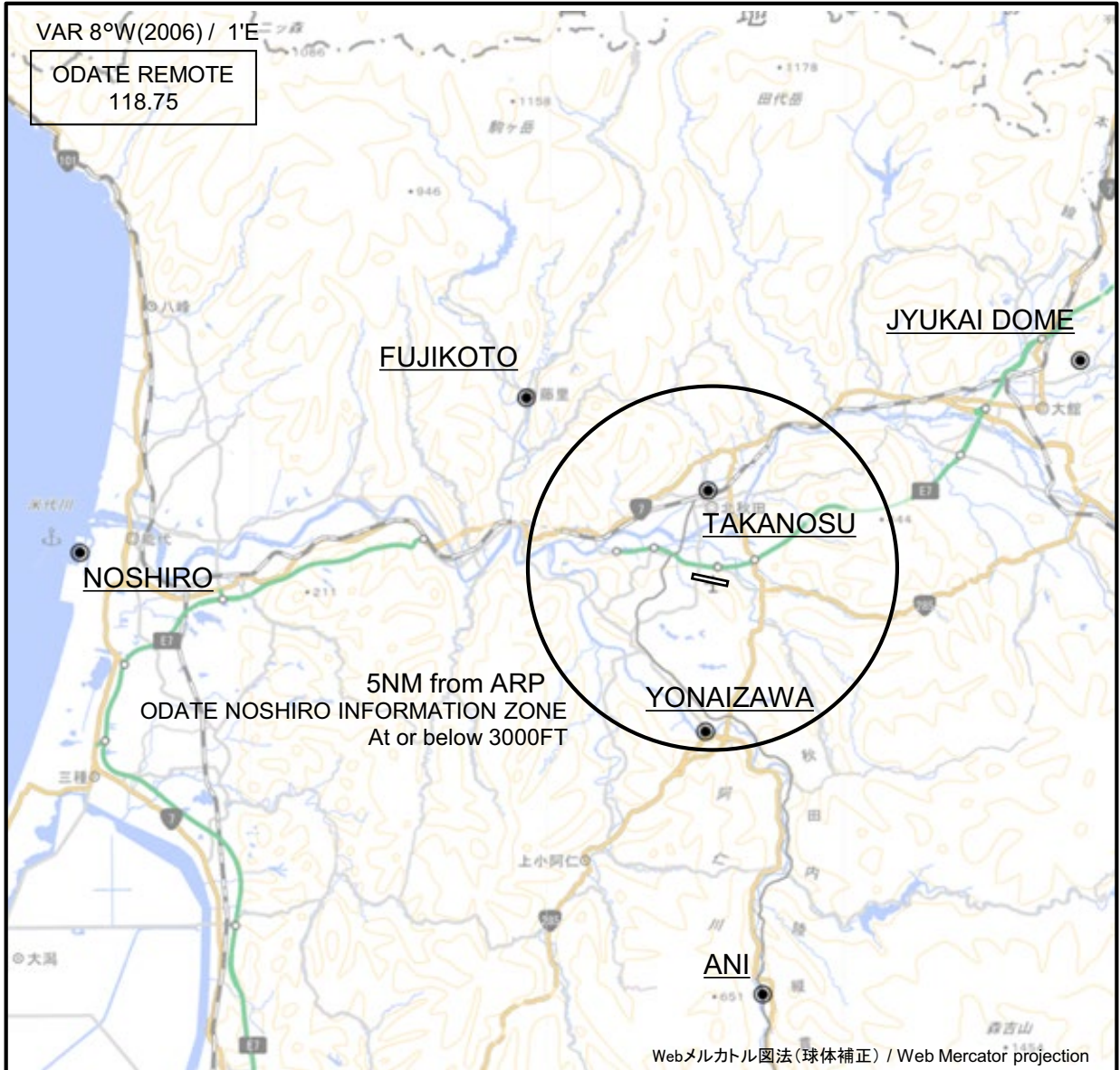
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	NOSSY	—	—	-8.5	—	—	+4000	—	—	—
002	TF	SR950	—	086 (077.7)	-8.5	15.2	—	+3500	-185	—	1.0
003	RF Center: SRRF2 r=3.00NM	SR951	—	—	-8.5	4.9	R	3500	—	—	1.0
004	RF Center: SRRF2 r=3.00NM	SR952	—	—	-8.5	5.7	R	1694	—	-3.00	0.27 0.30
005	TF	RW29	Y	289 (280.1)	-8.5	4.2	—	342	—	-3.00/50	0.27 0.30
006	TF	NOSSY	—	289 (280.3)	-8.5	10.9	—	4000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SR950	401634.48N / 1402818.75E	SRRF2	401338.11N / 1402908.01E
SR951	401403.14N / 1403301.06E		
SR952	401040.53N / 1402826.85E		
RW29	401125.10N / 1402258.78E		
NOSSY	401321.82N / 1400854.64E		

RJSR / ODATE-NOSHIRO

Visual REP



※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).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
樹海ドーム Jyukai Dome	058°T / 11.6NM	大館市白色ドーム White Dome Odate City
藤琴 Fujikoto	314°T / 7.2NM	粕毛川・藤琴川交点 Intersection Kasuge and Fujikoto River
鷹巣 Takanosu	357°T / 2.5NM	JR駅北側 North of JR Station
能代 Noshiro	272°T / 17.3NM	能代港 Noshiro Harbor
米内沢 Yonaizawa	183°T / 4.2NM	内陸線米内沢駅南側米内沢橋 Bridge
阿仁 Ani	173°T / 11.6NM	内陸線阿仁合駅 Station

RJSR / ODATE-NOSHIRO

LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART

