AD 2 AERODROMES

RJST AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJST - MATSUSHIMA

RJST AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*382411N/1411243E*
2	Direction and distance from (city)	6.6 NM W FM Ishinomaki city
3	Elevation/ Reference temperature	7ft / Nil
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	Nil
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	JSDF-A
7	Types of traffic permitted(IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJST AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Nil
3	Health and sanitation	Nil
4	AIS Briefing Office	H24
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	Nil
9	Handling	Nil
10	Security	Nil
11	De-icing	Nil
12	Remarks	Nil

RJST AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Nil
2	Fuel/ oil types	JET A-1 PLUS
3	Fuelling facilities/ capacity	To be issued later
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJST AD 2.5 PASSENGER FACILITIES

1	Hotels	Nil
2	Restaurants	Nil
3	Transportation	Nil
4	Medical facilities	Nil
5	Bank and Post Office	Nil
6	Tourist Office	Nil
7	Remarks	Nil

RJST AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Nil
2	Rescue equipment	Nil
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJST AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Nil
2	Clearance priorities	Nil
3	Remarks	Nil

RJST AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	To be issued later
2	Taxiway width, surface and strength	To be issued later
3	ACL and elevation	Not available
4	VOR checkpoints	Nil
5	INS checkpoints	Nil
6	Remarks	Nil

RJST 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:RWY07/25 (LGT)RTHL, TKOF aiming LGT TWY: (LGT) TWY edge LGT
3	Stop bars	Nil
4	Remarks	Nil

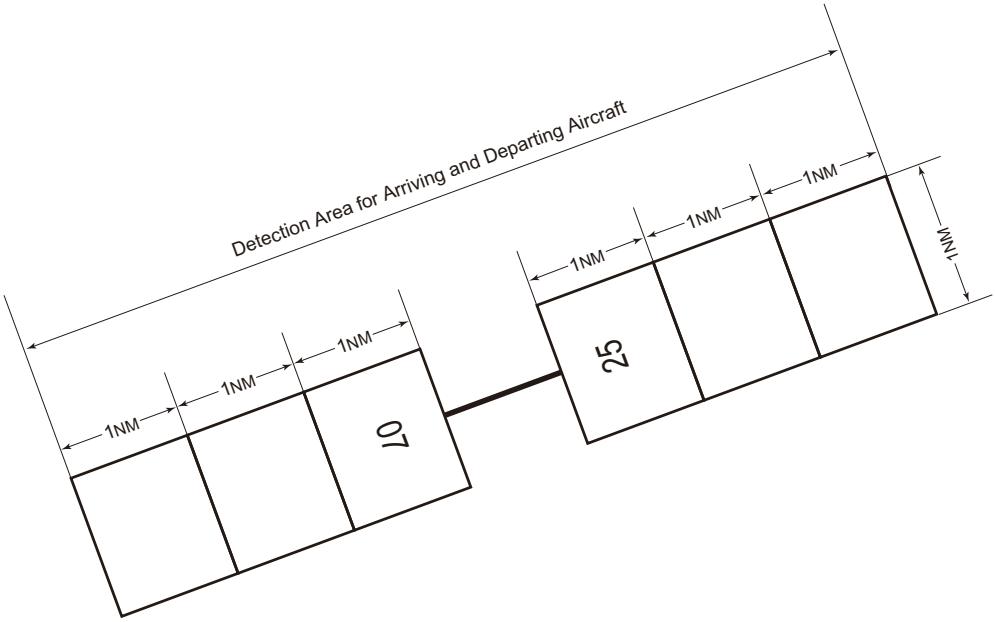
RJST AD 2.10 AERODROME OBSTACLES

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Nil					

RJST AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

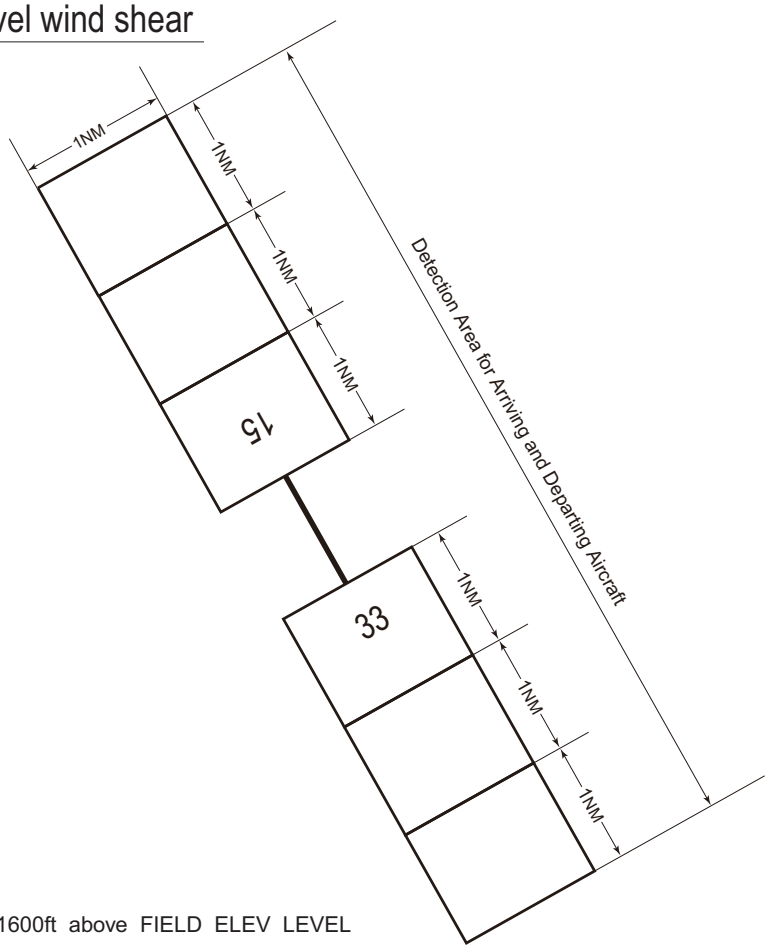
1	Associated MET Office	MATSUSHIMA
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Nil
6	Flight documentation Language(s) used	Ja,En
7	Charts and other information available for briefing or consultation	S,U
8	Supplementary equipment available for providing information	Doppler Radar for Airport Weather (See below figure)
9	ATS units provided with information	Nil
10	Additional information(limitation of service, etc.)	Nil

Airspace for the advisory service concerning low level wind shear



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL
LOWER LIMIT : FIELD ELEV LEVEL

Airspace for the advisory service concerning low level wind shear



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL
LOWER LIMIT : FIELD ELEV LEVEL

RJST 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
07	To be issued	2700×45	SW26300kg	Nil	Nil
25	Later	2700×45	(58000lbs)	Nil	Nil
15		1500×45	DW65100kg	Nil	Nil
33		1500×45	(143500lbs)	Nil	Nil
			Concrete		

Slope of RWY	Strip Dimensions (M)	Remarks
7	10	12
Nil	3300×450	Nil
Nil	3300×450	
Nil	1620×200	
Nil	1620×200	

RJST AD 2.13 DECLARED DISTANCES

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

RJST 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
07	AVBL		PAPI 3.0° (*1) 43ft					
25			PAPI 3.0° (*2) 38ft					
15								
33								
Remarks								
10								
(*1)879ft from RWY07 APCH END and 51ft S side from RWY edge (*2)784ft from RWY25 APCH END and 51ft S side from RWY edge RWY THR ID LGT for RWY07 THR(Color:White)								

RJST AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN:*382459N/1411314E*, Altn Gp Flg(3) WWG ev 10sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:LGTD
3	TWY edge and centerline lighting	TWY edge LGT:AVBL
4	Secondary power supply/switch-over time	Nil
5	Remarks	WDI LGT, OBST LGT

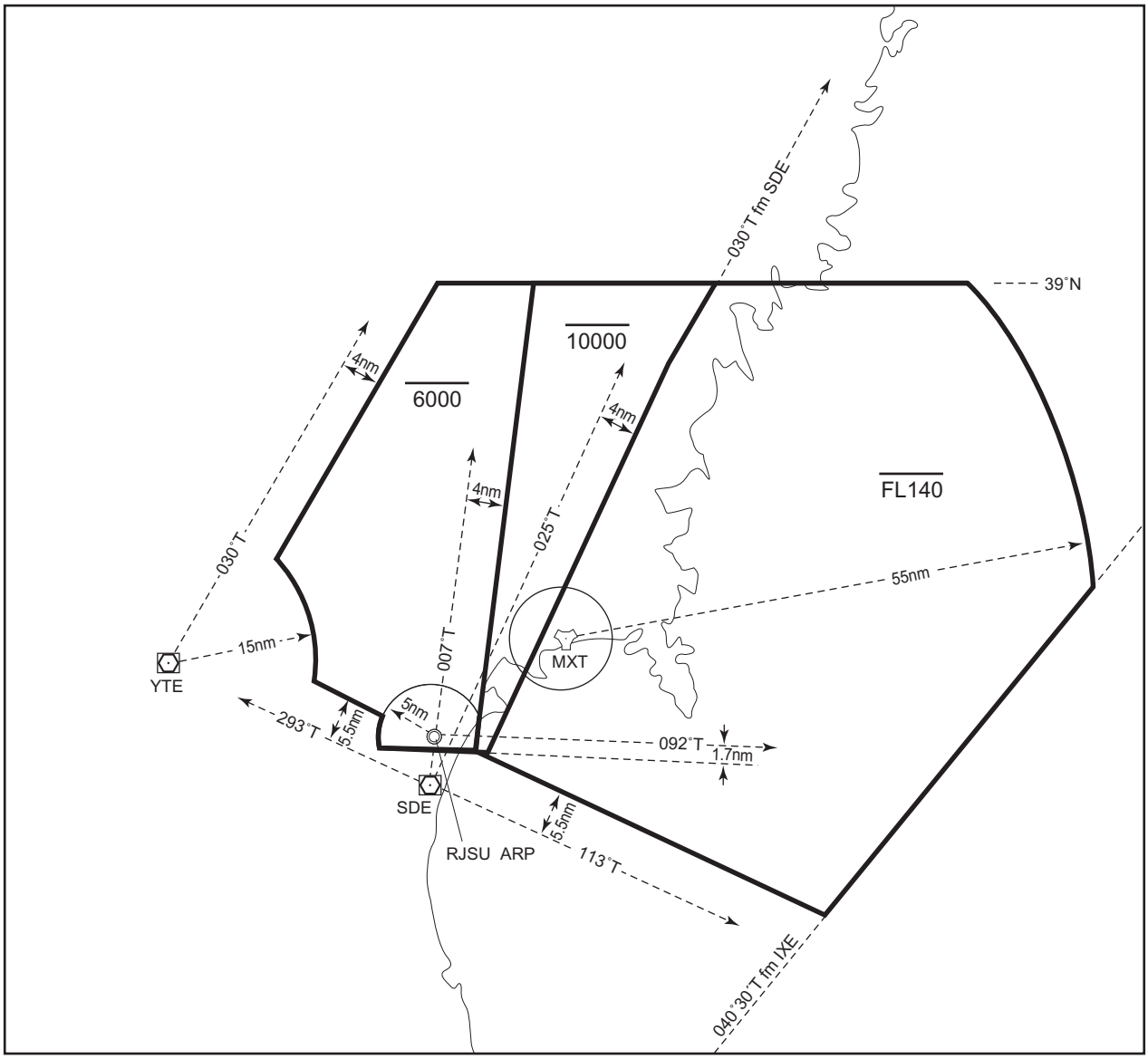
RJST AD 2.16 HELICOPTER LANDING AREA

Nil

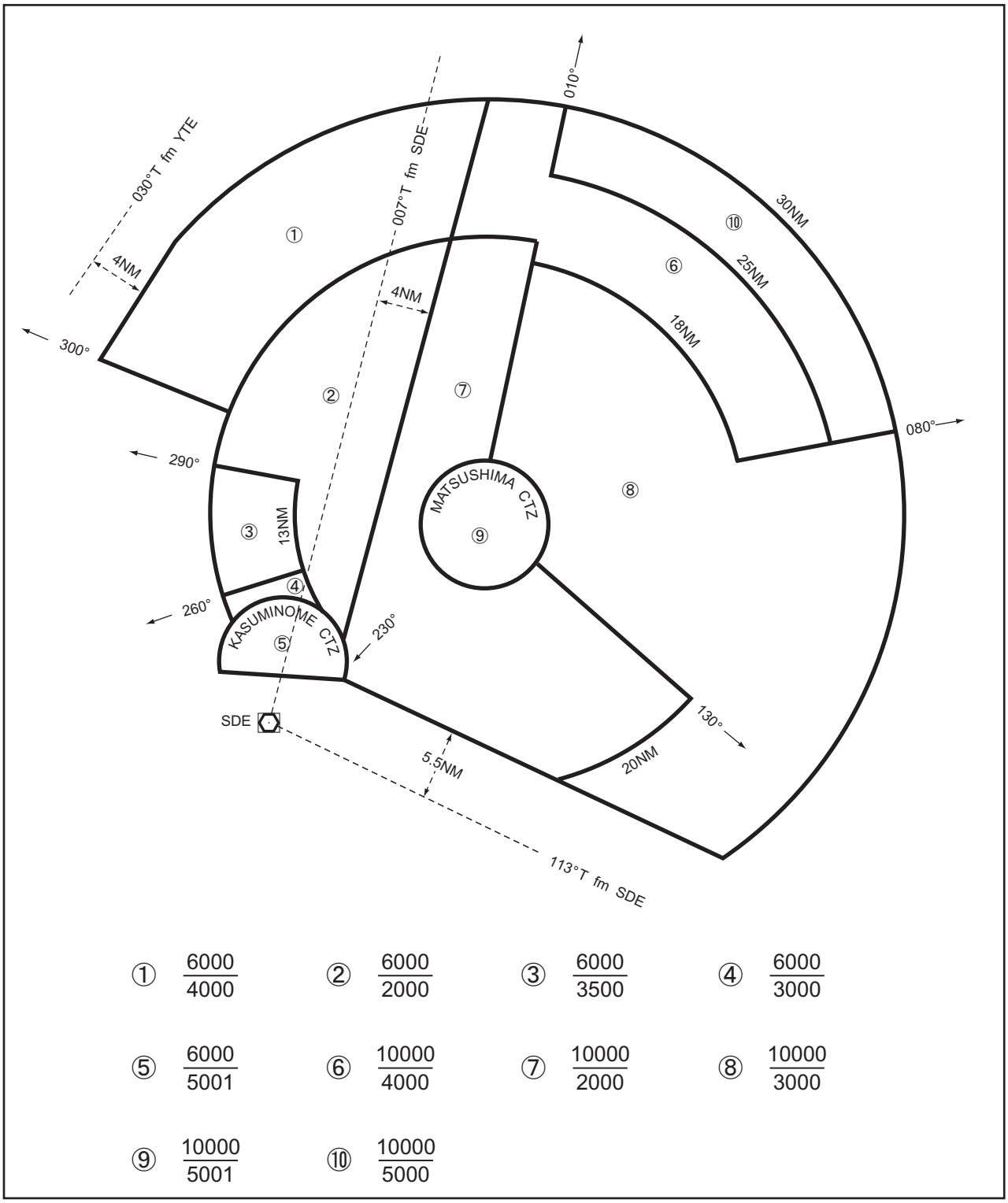
RJST AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
MATSUSHIMA CTR	Area within a radius of 5nm of MATSUSHIMA ARP(*38°24'N141°13'E*)	5.000 or below	D	MATSUSHIMA TOWER	
MATSUSHIMA ACA	See below Figure		E		
MATSUSHIMA TCA	See below Figure		E		

松島進入管制区
Matsushima Approach Control Area



松島ターミナルコントロールエリア
Matsushima Terminal Control Area



RJST AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Matsushima Approach/ Matsushima Radar	261.2MHz 120.1MHz 315.0MHz 243.0MHz(E) 121.5MHz(E)	H24	
TWR	Matsushima Tower	236.8MHz 126.2MHz 304.6MHz 138.05MHz(1) 247.0MHz(1)(2) 123.1MHz(1) 243.0MHz(E) 121.5MHz(E)	H24	 (1)For rescue only. (2)AVBL on request.
DEP	Matsushima Departure	362.3MHz 120.1MHz	H24	
GCA-ASR -PAR	Matsushima Radar	335.6MHz 270.8MHz 134.1MHz 125.3MHz 307.0MHz 315.0MHz 300.7MHz 316.0MHz 238.8MHz 302.4MHz 243.0MHz(E) 121.5MHz(E)	H24	ASR/PAR RWY 07/25. Glide path 3.0° RWY 07. Glide path 3.0° RWY 25.
GND	Matsushima Ground	275.8MHz	H24	
TCA	Matsushima TCA	123.85MHz	2300 - 1100 SUN - THU (EXC HOL)	

RJST AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
TACAN	MXT	1177MHz (CH-90X)	H24	*382414N/1411332E*		Unusable: 050°-060° beyond 30nm BLW 5,000ft. 060°-070° beyond 31nm BLW 5,000ft. 070°-080° beyond 29nm BLW 4,000ft. 080°-090° beyond 33nm BLW 4,000ft. 090°-100° beyond 28nm BLW 4,000ft. 100°-110° beyond 32nm BLW 4,000ft. 110°-120° beyond 35nm BLW 4,000ft.

RJST AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

RWY 15/33 CLSD for JET TYPE ACFT during night except emergency.

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

RJST AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJST AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY	REDL AVBL		REDL OUT	
		CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
TKOF ALTN AP FILED	07	300′-1600m	300′-1600m	-	300′-1600m
	25	300′-1600m	300′-1600m	-	300′-1600m
OTHER	07	AVBL LDG MINIMA			
	25				

2. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE

PAR RWY 07

MINIMA THR ELEV:6 AD ELEV:7

CAT			CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	250(244)	750	700(693)	1600
B				
C				2400
D				3200

PAR RWY 25

MINIMA THR ELEV:6 AD ELEV:7

CAT			CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	250(244)	800	700(693)	1600
B				
C				2400
D				3200

ASR RWY 07

MINIMA THR ELEV:6 AD ELEV:7

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600(593)	1000	700(693)	1600
B		1200		
C				2400
D		1600		3200

ASR RWY 25

MINIMA THR ELEV:6 AD ELEV:7

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500(493)	1500	700(693)	1600
B				
C		1800		2400
D		2000		3200

3. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with MATSUSHIMA Radar are lost for 1 minute in the pattern or 5 seconds (PAR)/15 seconds (ASR) on final approach, squawk Mode A/3 Code 7600 and ;

(I) 1. Contact MATSUSHIMA Radar /Tower.
2. If unable, proceed in accordance with visual flight rules.
3. If unable, proceed to TACAN IAF at last assigned altitude or 4,000 feet whichever is higher, and execute TACAN approach.

(II) Procedures other than above will be issued when situation required.

4. Automated Radar Terminal System (ARTS)
When instructed by ATC, aircraft flying in and out of Matsushima approach control area in principle will reply on 4096 Code (Mode A/3) with automatic altitude reporting capability (Mode C) ; Aircraft not equipped with the said transponder shall report ATC to that effect.

松島進入管制区を航行する航空機は, 管制機関の指示があった場合, 原則として自動高度通報機能を有する4096コードによる応答装置を作動させること。上記指示を受けた当該応答装置を有しない航空機は , 管制機関に対しその旨を通報すること。

RJST AD 2.23 ADDITIONAL INFORMATION

Woods 700ft FM APCH end of RWY33.

RJST AD 2.24 CHARTS RELATED TO AN AERODROME

Standard Departure Chart - Instrument-1
Standard Departure Chart - Instrument-2
Standard Departure Chart - Instrument-3
Standard Departure Chart - Instrument-4
Instrument Approach Chart-1 (TACAN NR.1)
Instrument Approach Chart-2 (TACAN NR.2)

INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART - INSTRUMENT

RJST/MATSUSHIMA SID

MATSUSHIMA REVERSAL TWO DEPARTURE

RWY 07 : Climb via RWY HDG to 690FT or above, turn right,....

RWY 25 : Climb via RWY HDG to 600FT or above, turn left,....

....to intercept MXT R-136 within MXT 14DME, then climb via MXT R-136, turn left within MXT 33DME to intercept and proceed via MXT R-116 to MXT TACAN.

Cross MXT TACAN at assigned or specified altitude.

Note 1 : Take off RWY 25, complete left turn within MXT 9DME.

Note 2 : Take off RWY 25, maintain at or below 10,000 FT until MXT R-200.

Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3,000 FT.

Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	230	460	690	920	1150	1380	1610

NORTH THREE DEPARTURE

RWY 07 : Climb via RWY HDG to 750FT or above,....

RWY 25 : Climb via RWY HDG to 600FT or above,....

....turn left to intercept MXT R-050 within MXT 7DME, then climb via MXT R-050 to RIASU.

Cross RIASU at assigned or specified altitude.

Note 1 : Take off RWY 25, complete left turn within MXT 9DME.

Note 2 : Take off RWY 25, maintain at or below 10,000 FT until MXT R-200.

Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3,000 FT.

Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	250	500	750	1000	1250	1500	1750

STANDARD DEPARTURE CHART - INSTRUMENT

RJST/MATSUSHIMA SID

CHANGE : PROC renamed(SOUTH FOUR DEPARTURE). ALT restriction at MATSU for DAIGO TRANSITION.

SOUTH FOUR DEPARTURE

RWY 07 : Climb via RWY HDG to 690FT or above, turn right,....

RWY 25 : Climb via RWY HDG to 600FT or above, turn left,....

....to intercept MXT R-136 within MXT 14DME, then climb via MXT R-136 to MATSU.

Cross MATSU at or above FL150 for HYAKURI TRANSITION, at or above FL210 for DAIGO TRANSITION, or specified altitude.

Note 1 : Take off RWY 25, complete left turn within MXT 9DME.

Note 2 : Take off RWY 25, maintain at or below 10,000 FT until MXT R-200.

Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3,000FT.

Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	230	460	690	920	1150	1380	1610

RIASU TWO DEPARTURE

RWY 07 : Climb via RWY HDG to 750FT or above, turn right,....

RWY 25 : Climb via RWY HDG to 600FT or above, turn left,....

....to intercept MXT R-075 within MXT 7DME, then climb via MXT R-075 to 30DME, turn left via MXT 30DME counterclockwise ARC to RIASU.

Cross RIASU at assigned or specified altitude.

Note 1 : Take off RWY 25, complete left turn within MXT 9DME.

Note 2 : Take off RWY 25, maintain at or below 10,000 FT until MXT R-200.

Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3,000FT.

Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	250	500	750	1000	1250	1500	1750

EAST REVERSAL TWO DEPARTURE

RWY 07 : Climb via RWY HDG to 750FT or above, turn right,....

RWY 25 : Climb via RWY HDG to 600FT or above, turn left,....

....to intercept MXT R-075 within MXT 7DME, then climb via MXT R-075, turn left within MXT 33DME to intercept and proceed via MXT R-055 to MXT TACAN.

Cross MXT R-055/12DME at assigned or specified altitude.

Note 1 : Take off RWY 25, complete left turn within MXT 9DME.

Note 2 : Take off RWY 25, maintain at or below 10,000 FT until MXT R-200.

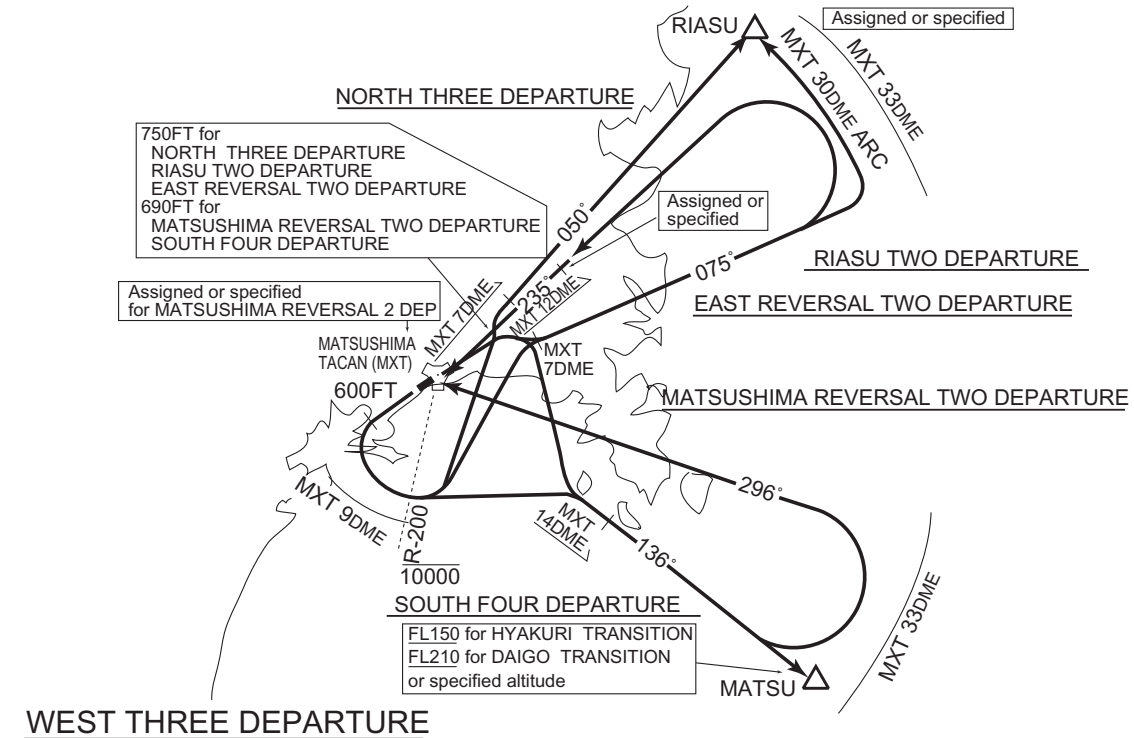
Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3,000FT.

Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	250	500	750	1000	1250	1500	1750

STANDARD DEPARTURE CHART - INSTRUMENT

RJST / MATSUSHIMA SID and TRANSITION

CHANGE : PROC renamed(SOUTH FOUR DEPARTURE).ALT restriction at MATSU for DAIGO TRANSITION.



WEST THREE DEPARTURE

RWY 07 : Climb via RWY HDG to 690FT or above,....

RWY 25 : Climb via RWY HDG to 600FT or above,....
....trun right to intercept MXT R-263 within MXT 9DME, then climb via MXT R-263 to DAIWA.
Cross DAIWA at or above 8000FT.
Note 1 : Take off RWY 07, complete right turn within MXT 8DME.
Note 2 : Take off RWY 07, maintain at or below 10000FT until MXT R-200.
Note 3 : Take off RWY 07, following climb gradient should be maintained until passing 3000FT.

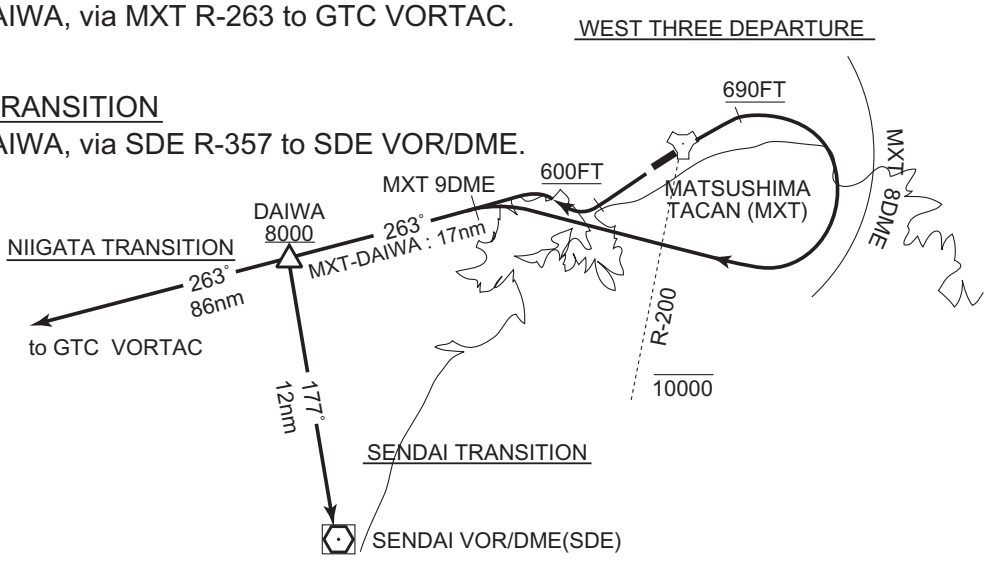
Speed (Knots)	60	120	180	240	300	360	420
Rate (Feet/Min)	230	460	690	920	1150	1380	1610

NIIGATA TRANSITION

After DAIWA, via MXT R-263 to GTC VORTAC.

SENDAI TRANSITION

After DAIWA, via SDE R-357 to SDE VOR/DME.



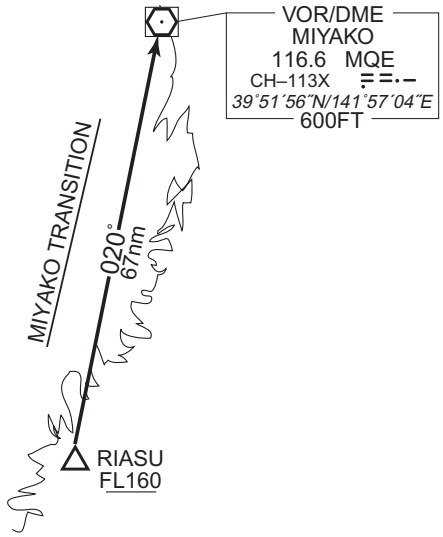
STANDARD DEPARTURE CHART - INSTRUMENT

RJST / MATSUSHIMA TRANSITION

CHANGE: Course FM MATSU to GOT (DAIGO TRANSITION).

MIYAKO TRANSITION

After RIASU, via MQE R200 to MQE VOR/DME.
Cross RIASU at or above FL160.

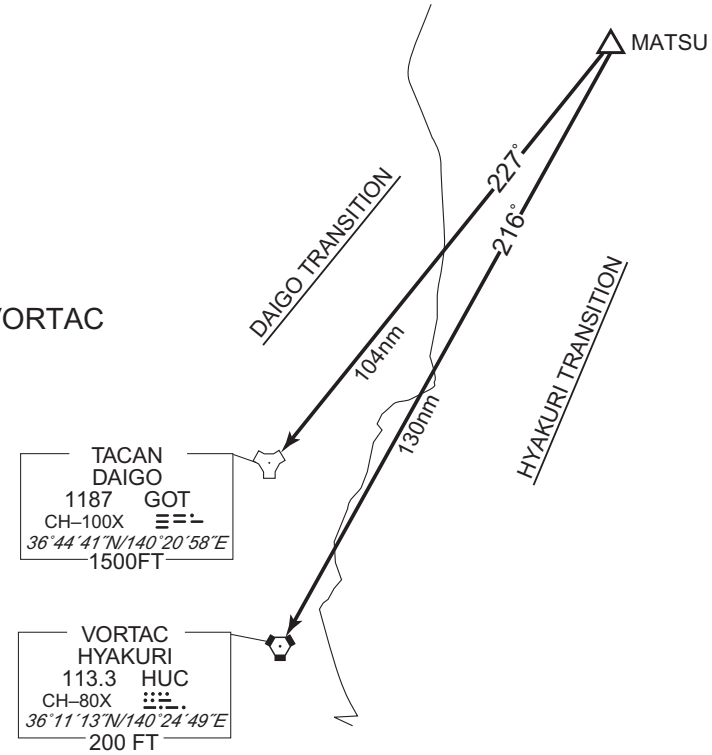


DAIGO TRANSITION

After MATSU, via GOT R047 to GOT TACAN.

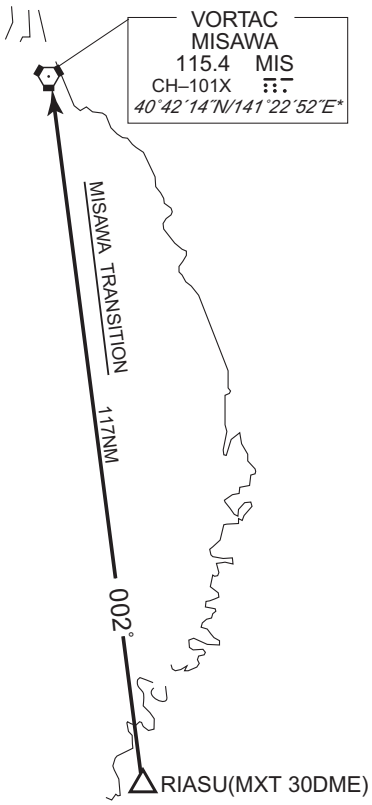
HYAKURI TRANSITION

After MATSU, via HUC R036 to HUC VORTAC.



MISAWA TRANSITION

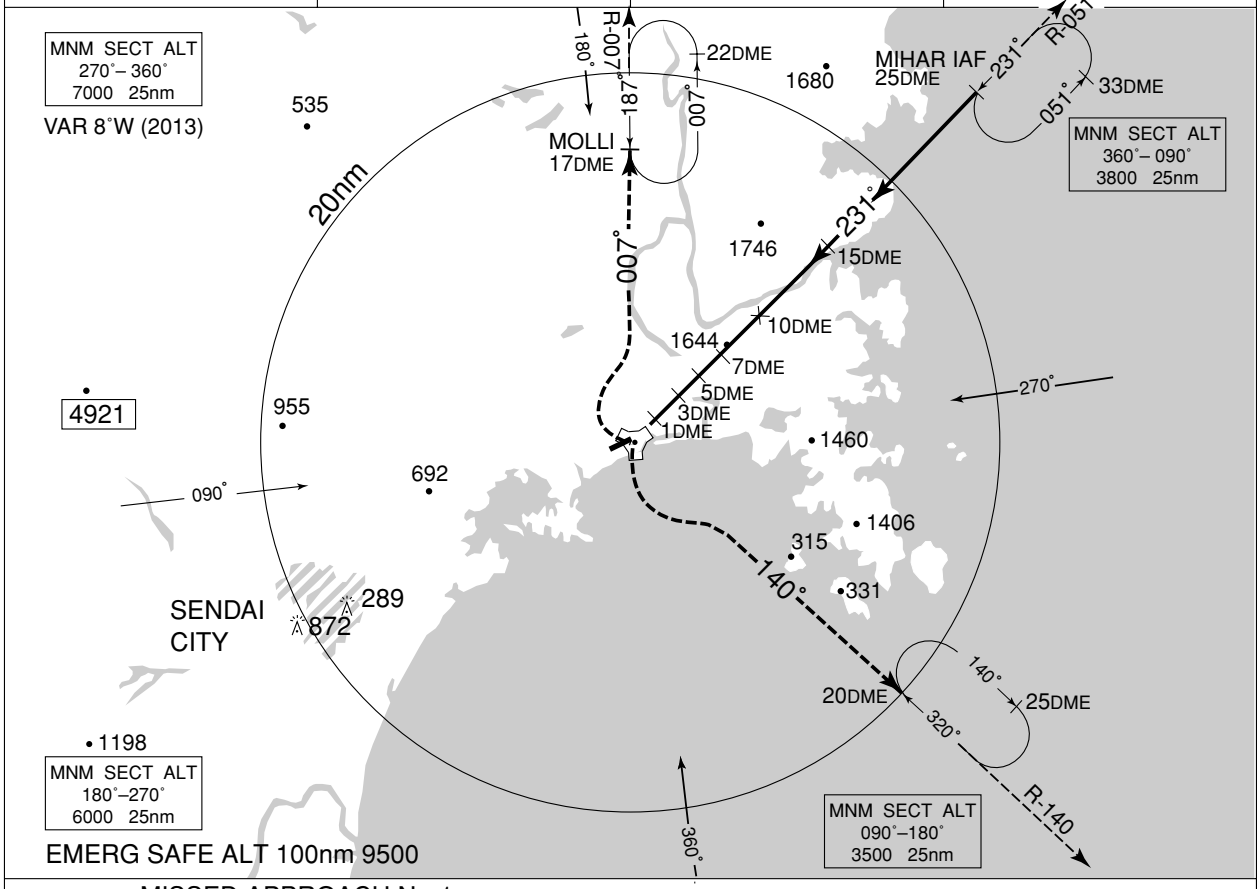
After RIASU, via MIS R182 to MIS VORTAC
Cross RIASU at or above FL180.



INSTRUMENT APPROACH CHART

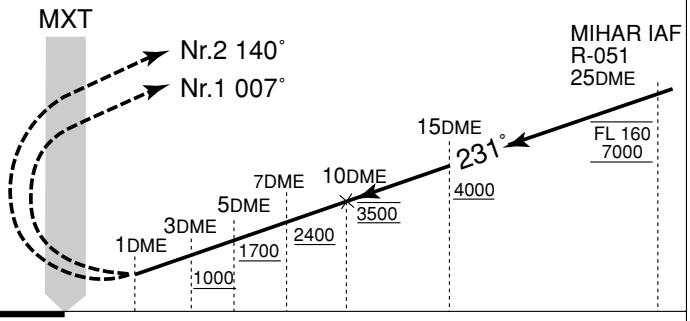
RJST / MATSUSHIMA TACAN NR.1

MATSUSHIMA APP	MATSUSHIMA TACAN	MATSUSHIMA TOWER	GCA AVBL
120.1 - 261.2 - 362.3	MXT CH-90X	126.2 - 236.8 304.6 - 275.8G	CALL MATSUSHIMA APP



MISSED APPROACH Nr. 1
At 1.0DME prior to MXT TACAN, turn right climb via MXT R-007 to MOLLI and hold at 4,000ft.
Contact MATSUSHIMA APP.

MISSED APPROACH Nr. 2
At 1.0DME prior to MXT TACAN, turn left climb via MXT R-140 to 20DME fix and hold at 4,000ft.
Contact MATSUSHIMA APP.



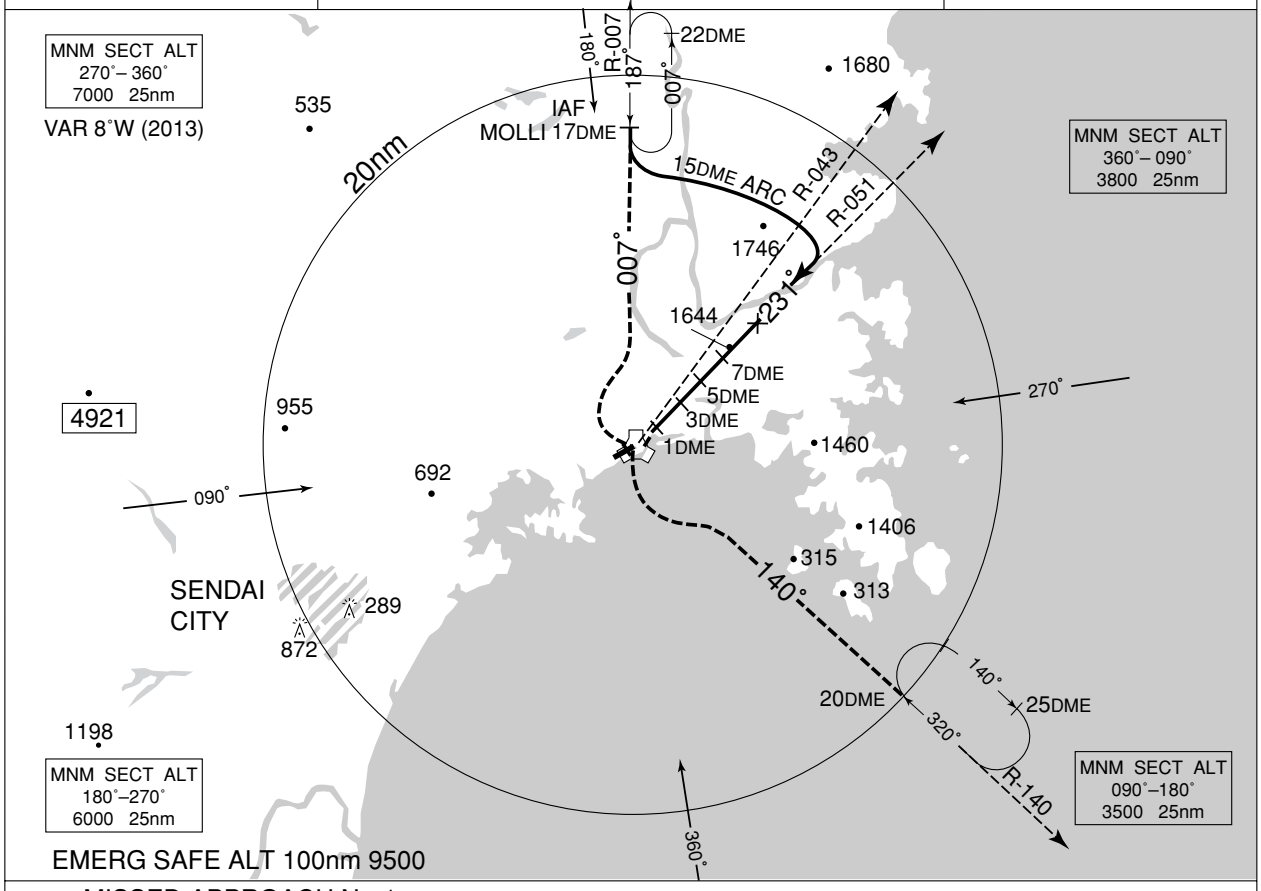
MINIMA	THR elev. 6		AD elev. 7	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	460 (453)	1500	600 (593)	1600
B				
C		1800		2400
D		2000		3200

Circling to South side of RWY only.
Missed approach procedure will be assigned by ATC by leaving IAF.
In case of radio failure, MISSED APPROACH Nr.1 will be applied.

INSTRUMENT APPROACH CHART

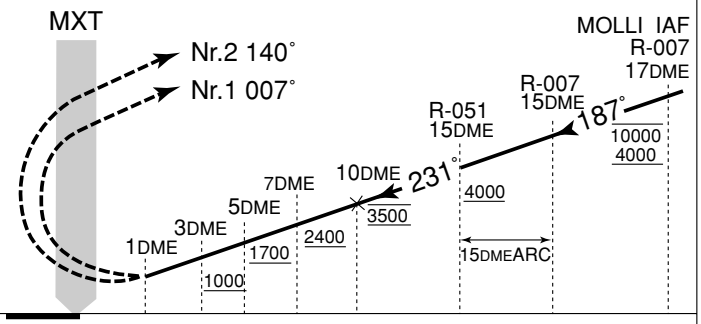
RJST / MATSUSHIMA TACAN NR.2

MATSUSHIMA APP	MATSUSHIMA TACAN	MATSUSHIMA TOWER	GCA AVBL
120.1 - 261.2 - 362.3	MXT CH-90X	126.2 - 236.8 304.6 - 275.8G	CALL MATSUSHIMA APP



MISSED APPROACH Nr. 1
At 1.0DME prior to MXT TACAN, turn right climb via MXT R-007 to MOLLI and hold at 4,000ft.
Contact MATSUSHIMA APP.

MISSED APPROACH Nr. 2
At 1.0DME prior to MXT TACAN, turn left climb via MXT R-140 to 20DME fix and hold at 4,000ft.
Contact MATSUSHIMA APP.



MINIMA THR elev. 6 AD elev. 7

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	460 (453)	1500	600 (593)	1600
B				
C		1800		2400
D		2000		3200

Circling to South side of RWY only.
Missed approach procedure will be assigned by ATC by leaving IAF.
In case of radio failure, MISSED APPROACH Nr.1 will be applied.