AERODROME CHART

NIIGATA AIRPORT
ELEV 1.40m(4.6ft)

CHANGE : THR ELEV. PAPI relocated. Shape of RWY and TWY. Length of Approach lighting system.

VAR 8 W-2008
ANNUAL CHANGE 0.3'W

LOC

ELEV 27ft

PAPI ANGLE 3.0°
MEHT 22.9m (75ft)
535m INSIDE FM THR

7▽1 6▽2 5▽3 4▽4 3▽5 2▽6 1▽7

7△1 6△2 5△ 4△4 3△5

TAXIING GUIDANCE SIGN
WIND SPEED METER
WDI

ARP
375721N
1390642E

VORTAC
(GTC)

PAPI ANGLE 3.0°
MEHT 19.9m (65ft)
455m INSIDE FM THR

GP

A3
RWY TIL
22
ELEV 6ft
ELEV 10ft
28
RUNWAY
GUARD LIGHTS

B5 B4 B3 B2 B1
P4 P3
C6 C5 C4 C3 C2 C1

CEILOMETER
WIND SPEED METER
RVR
WDI
PAPI ANGLE 3.0°
MEHT 18.6m (61ft)
361m INSIDE FM THR

JSDF-A

APRON

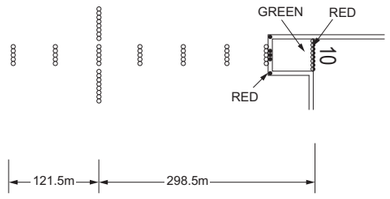
1 2 3 4 5 6 7 8 9 10

FIRE STN
TWR AIS MET
TERMINAL BLDG

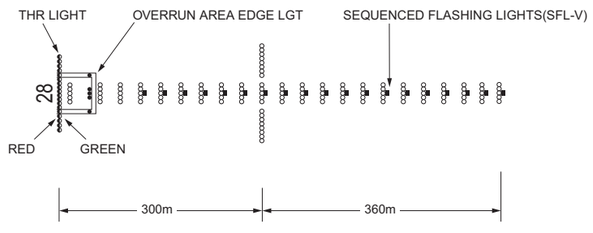
ASR
ABN
JCG

S APRON
S-TWY
A1
ELEV 23ft
04
RWY TIL

SIMPLE APPROACH LIGHTING SYSTEM



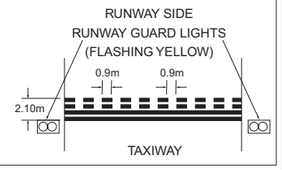
APPROACH LIGHTING SYSTEM



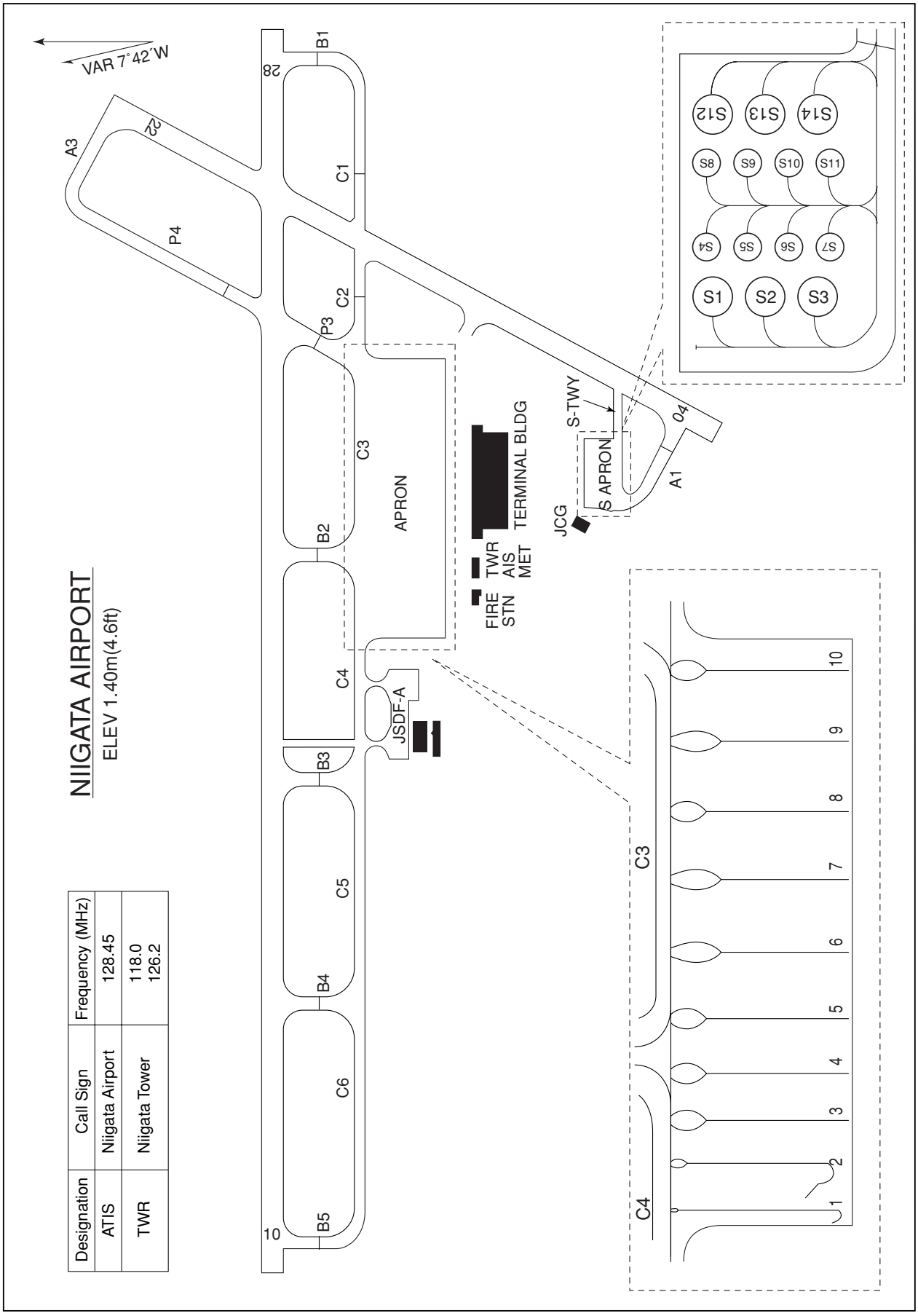
RUNWAY-HOLDING POSITION MARKINGS and RUNWAY GUARD LIGHTS

Runway-holding position markings and Runway guard lights are located on taxiway B-1 through B-5, C-1, C-2 and P-3. Their locations are 75m off the runway centerline.

COMMON WAYS OF ITS MARKING AND LIGHTS



RJSN / NIIGATA AD CHART



Designation	Call Sign	Frequency (MHz)
ATIS	Niigata Airport	128.45
TWR	Niigata Tower	118.0 126.2

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

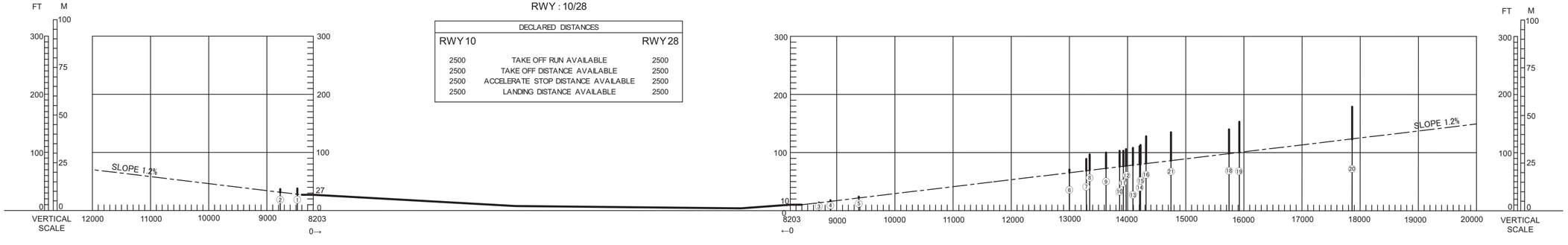
AERODROME OBSTACLE CHART-ICAO

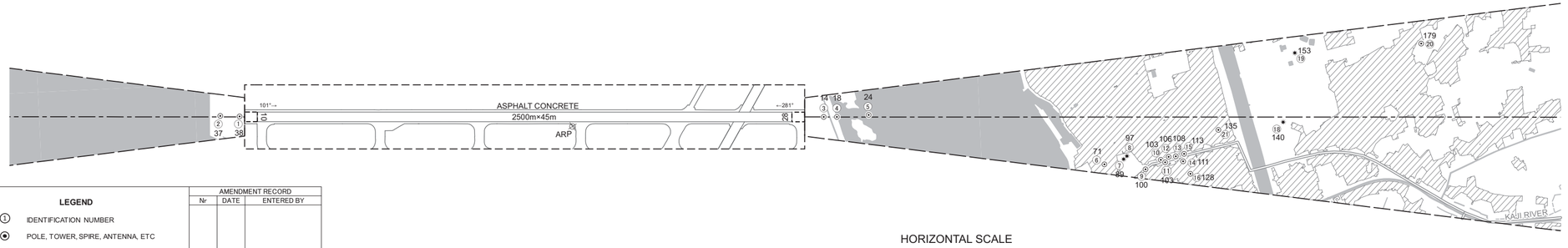
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 9°W - DEC 2022

NIIGATA AIRPORT
RWY : 10/28

DECLARED DISTANCES		
RWY 10		RWY 28
2500	TAKE OFF RUN AVAILABLE	2500
2500	TAKE OFF DISTANCE AVAILABLE	2500
2500	ACCELERATE STOP DISTANCE AVAILABLE	2500
2500	LANDING DISTANCE AVAILABLE	2500





HORIZONTAL SCALE

FEET

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 ft

500 0 500 1000 1500 2000 2500 3000 m

METRES

LEGEND
① IDENTIFICATION NUMBER
POLE, TOWER, SPIRE, ANTENNA, ETC
TREE / LEVEE
RAILROAD / RIVER
TRIANGULATION POINT
AERONAUTICAL GROUND LIGHT
BUILDING OR LARGE STRUCTURE
CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

測量法に基づく国土地理院長承認(使用) R 4JHs 286　国土数値情報 （緊急輸送道路）

CHANGE:Update

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B

AERODROME ELEVATION 4.6ft ARP

VAR 9° W DEC 2022
ANNUAL CHANGE 4'W

HORIZONTAL SURFACE

APPROACH SURFACE
SLOPE 1:50

TRANSITIONAL SURFACE
SLOPE 1:7

TAKE-OFF FLIGHT PATH
SLOPE 1:2%

NATIONAL ROUTE 113

KAJI RIVER

NIIGATA CITY

SHINANO RIVER

AGANO RIVER

NEW SHINANO RIVER

NATIONAL ROUTE 7

AGANO-NIIGATA KONAN BRIDGE

TSUSEN RIVER

NEW KUROSE RIVER

TAIHEI BRIDGE

HAKUSHIN LINE

NATIONAL ROUTE 7
(NIIGATA BYPASS)

JOETSU SHINKANSEN

ASPHALT CONCRETE

LEGEND	
AERODROME REFERENCE POINT	*37° 57'21"N 139° 06'42"E*
POLE, TOWER, SPIRE, ANTENNA, ETC	
AERONAUTICAL GROUND LIGHT	
OBSTRUCTION LIGHT	
BUILDING OR LARGE STRUCTURE	
RAILROAD / TRIANGULATION POINT	
LEVEE / RIVER	
TREE / CONTOURS(ft)	
LAKE	

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

HORIZONTAL SCALE

FEET

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 ft

500 0 500 1000 1500 2000 2500 3000 m

METRE

測量法に基づく国土地理院長承認(使用) R 4JHs 286 国土数値情報（緊急輸送道路）

CHANGE:Update

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

CHANGE : PROC renamed(OKESA SEVEN DEPARTURE). PROC course.

OKESA SEVEN DEPARTURE

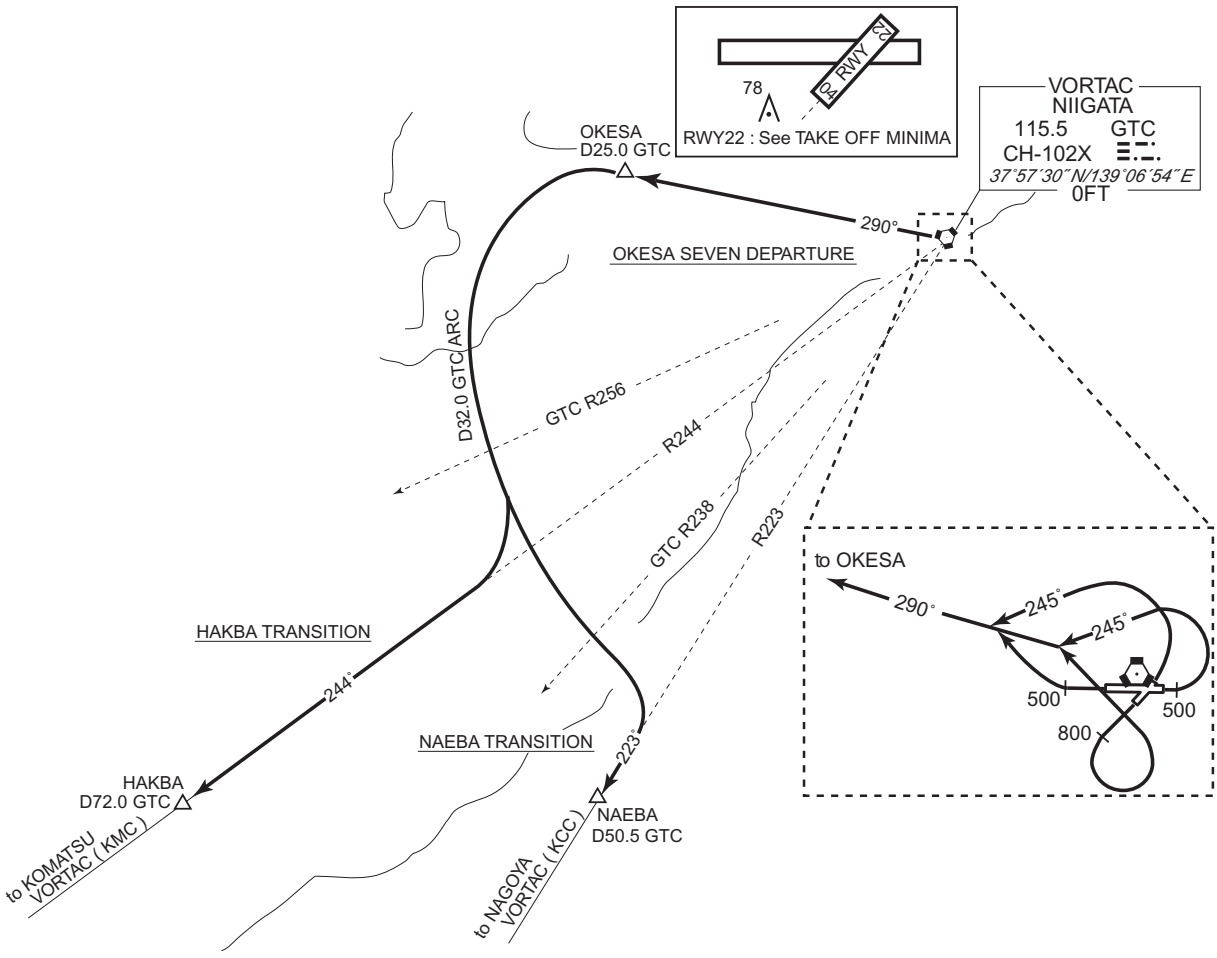
RWY 04 : Turn left HDG 245˚...
RWY 10 : Climb RWY HDG to 500FT, turn left HDG 245°...
RWY 22 : Climb RWY HDG to 800FT, turn left...
RWY 28 : Climb RWY HDG to 500FT, turn right...
...to intercept and proceed via GTC R290 to OKESA.

NAEBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R223 to NAEBA.

HAKBA TRANSITION

From over OKESA, turn left to intercept and proceed via GTC 32.0DME counterclockwise ARC, turn right to intercept and proceed via GTC R244 to HAKBA.

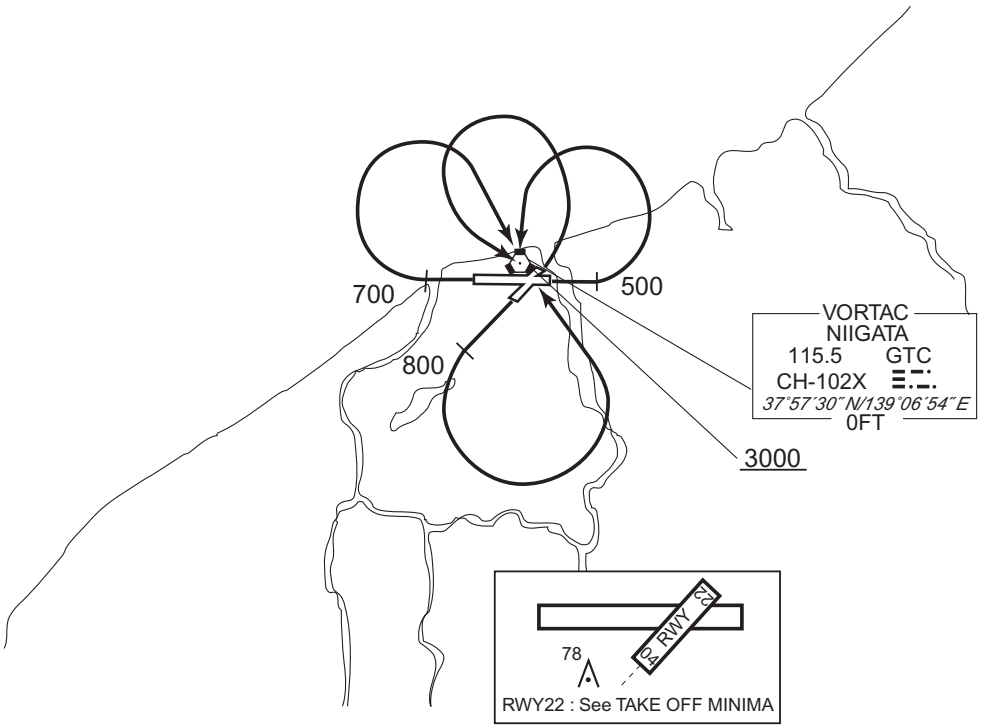


STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA SID

NIIGATA REVERSAL SEVEN DEPARTURE

RWY 04 : Turn left...
RWY 10 : Climb RWY HDG to 500FT, turn left...
RWY 22 : Climb RWY HDG to 800FT, turn left...
RWY 28 : Climb RWY HDG to 700FT, turn right...
...direct to GTC VORTAC.
Cross GTC VORTAC at or above 3000FT.



CHANGE : PROC renamed. ALT restriction.

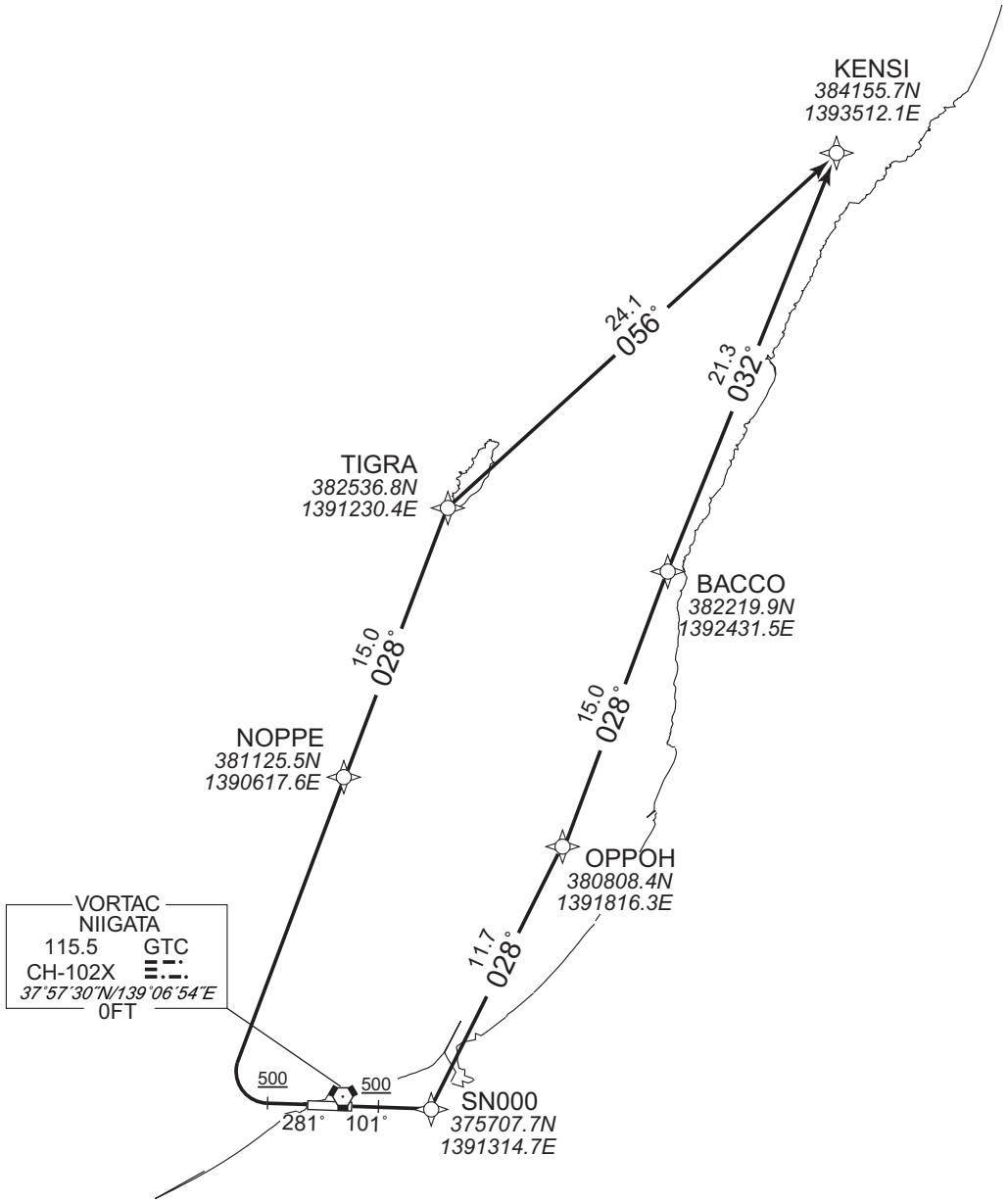
STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA RNAV SID

SASAGA THREE DEPARTURE	Basic RNP1

Note GNSS required.

VAR 9˚W



RWY10 : Climb on HDG101˚ at or above 500FT, direct to SN000, to OPPOH, to BACCO, to KENSI.
RWY28 : Climb on HDG281˚ at or above 500FT, turn right direct to NOPPE, to TIGRA, to KENSI.

NOTE RWY10 : 5.0% climb gradient required up to 500FT.

CHANGE : Description of VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA RNAV SID

SASAGA THREE DEPARTURE

RWY10

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	–	–	101 (092.7)	-8.6	–	–	+500	–	–	Basic RNP1
002	DF	SN000	–	–	-8.6	–	–	–	–	–	Basic RNP1
003	TF	OPPOH	–	028 (019.7)	-8.6	11.7	–	–	–	–	Basic RNP1
004	TF	BACCO	–	028 (019.1)	-8.6	15.0	–	–	–	–	Basic RNP1
005	TF	KENSI	–	032 (023.0)	-8.6	21.3	–	–	–	–	Basic RNP1

RWY28

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	–	–	281 (272.7)	-8.6	–	–	+500	–	–	Basic RNP1
002	DF	NOPPE	–	–	-8.6	–	R	–	–	–	Basic RNP1
003	TF	TIGRA	–	028 (018.9)	-8.6	15.0	–	–	–	–	Basic RNP1
004	TF	KENSI	–	056 (047.3)	-8.6	24.1	–	–	–	–	Basic RNP1

CHANGE : VAR. PROC renamed. Navigation specification. PROC course.

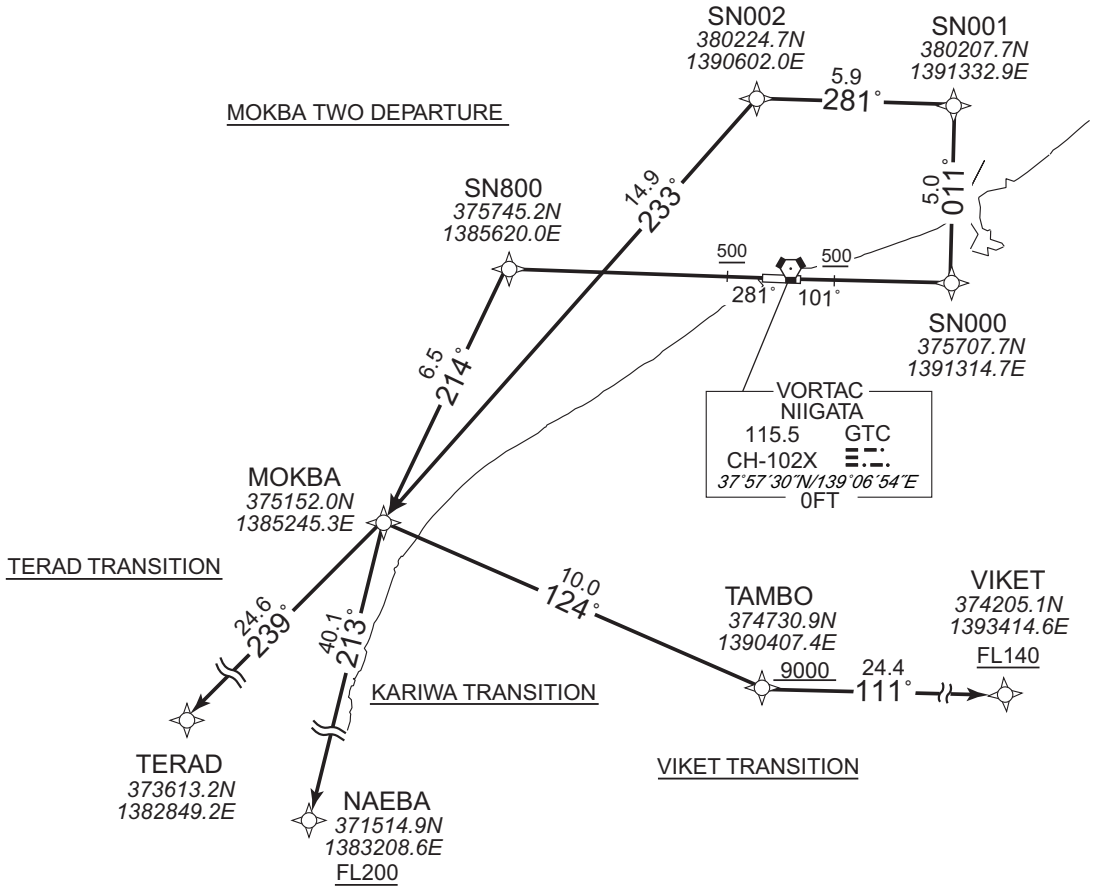
STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA — RNAV SID and TRANSITION

MOKBA TWO DEPARTURE KARIWA TRANSITION / TERAD TRANSITION / VIKET TRANSITION	Basic RNP1

Note GNSS required.

VAR 9˚W



MOKBA TWO DEPARTURE

RWY10 : Climb on HDG101˚ at or above 500FT, direct to SN000, to SN001, to SN002, to MOKBA.
RWY28 : Climb on HDG281˚ at or above 500FT, direct to SN800, to MOKBA.
NOTE RWY10 : 5.0% climb gradient required up to 500FT.

KARIWA TRANSITION

From MOKBA, to NAEBA at or above FL200.

TERAD TRANSITION

From MOKBA, to TERAD.

VIKET TRANSITION

From MOKBA, to TAMBO at or above 9000FT, to VIKET at or above FL140.

CHANGE : Description of VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID and TRANSITION

CHANGE : VAR. PROC renamed. Navigation specification. Course FM MOKBA to NAEBA. ALT restriction at TAMBO established.

MOKBA TWO DEPARTURE

RWY10

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	–	–	101 (092.7)	-8.6	–	–	+500	–	–	Basic RNP1
002	DF	SN000	–	–	-8.6	–	–	–	–	–	Basic RNP1
003	TF	SN001	–	011 (002.7)	-8.6	5.0	–	–	–	–	Basic RNP1
004	TF	SN002	–	281 (272.8)	-8.6	5.9	–	–	–	–	Basic RNP1
005	TF	MOKBA	–	233 (224.9)	-8.6	14.9	–	–	–	–	Basic RNP1

RWY28

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	–	–	281 (272.7)	-8.6	–	–	+500	–	–	Basic RNP1
002	DF	SN800	–	–	-8.6	–	–	–	–	–	Basic RNP1
003	TF	MOKBA	–	214 (205.6)	-8.6	6.5	–	–	–	–	Basic RNP1

KARIWA 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	MOKBA	–	–	-8.6	–	–	–	–	–	Basic RNP1
002	TF	NAEBA	–	213 (204.2)	-8.6	40.1	–	+FL200	–	–	Basic RNP1

TERAD 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	MOKBA	–	–	-8.6	–	–	–	–	–	Basic RNP1
002	TF	TERAD	–	239 (230.5)	-8.6	24.6	–	–	–	–	Basic RNP1

VIKET TRANSITION

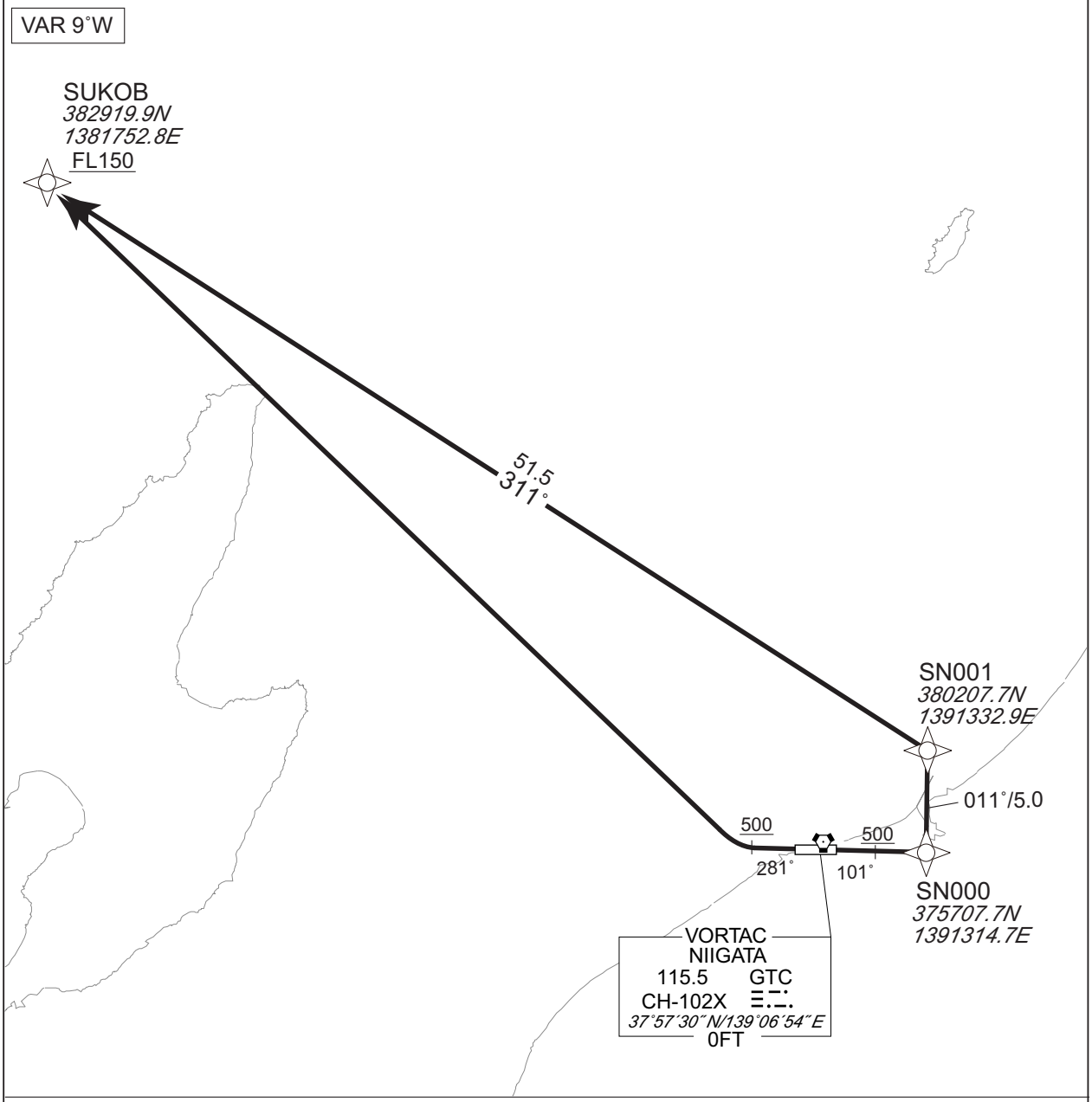
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MOKBA	–	–	-8.6	–	–	–	–	–	Basic RNP1
002	TF	TAMBO	–	124 (115.8)	-8.6	10.0	–	+9000	–	–	Basic RNP1
003	TF	VIKET	–	111 (102.7)	-8.6	24.4	–	+FL140	–	–	Basic RNP1

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN / NIIGATA

RNAV SID

SUKOB ONE DEPARTURE		RNAV 1
NOTE 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required.	Critical DME	RWY10 : GTC : 10.0NM to SUKOB - SUKOB NTE : 10.0NM to SUKOB - SUKOB RWY28 : GTC : 15.0NM to SUKOB - SUKOB NTE : 15.0NM to SUKOB - SUKOB
	DME GAP	RWY10 : DER - 10.0NM to SUKOB RWY28 : DER - 15.0NM to SUKOB
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.



RWY10 : Climb on HDG101˚ at or above 500FT, direct to SN000, to SN001, to SUKOB at or above FL150.

RWY28 : Climb on HDG281˚ at or above 500FT, turn right direct to SUKOB at or above FL150.

Note RWY10 : 5.0% climb gradient required up to 500FT.

CHANGE : Description of VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSN/ NIIGATA RNAV SID

SUKOB ONE DEPARTURE

RWY10

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	—	—	101 (092.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SN000	—	—	-8.6	—	—	—	—	—	RNAV1
003	TF	SN001	—	011 (002.7)	-8.6	5.0	—	—	—	—	RNAV1
004	TF	SUKOB	—	311 (302.2)	-8.6	51.5	—	+FL150	—	—	RNAV1

RWY28

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	—	—	281 (272.7)	-8.6	—	—	+500	—	—	RNAV1
002	DF	SUKOB	—	—	-8.6	—	R	+FL150	—	—	RNAV1

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

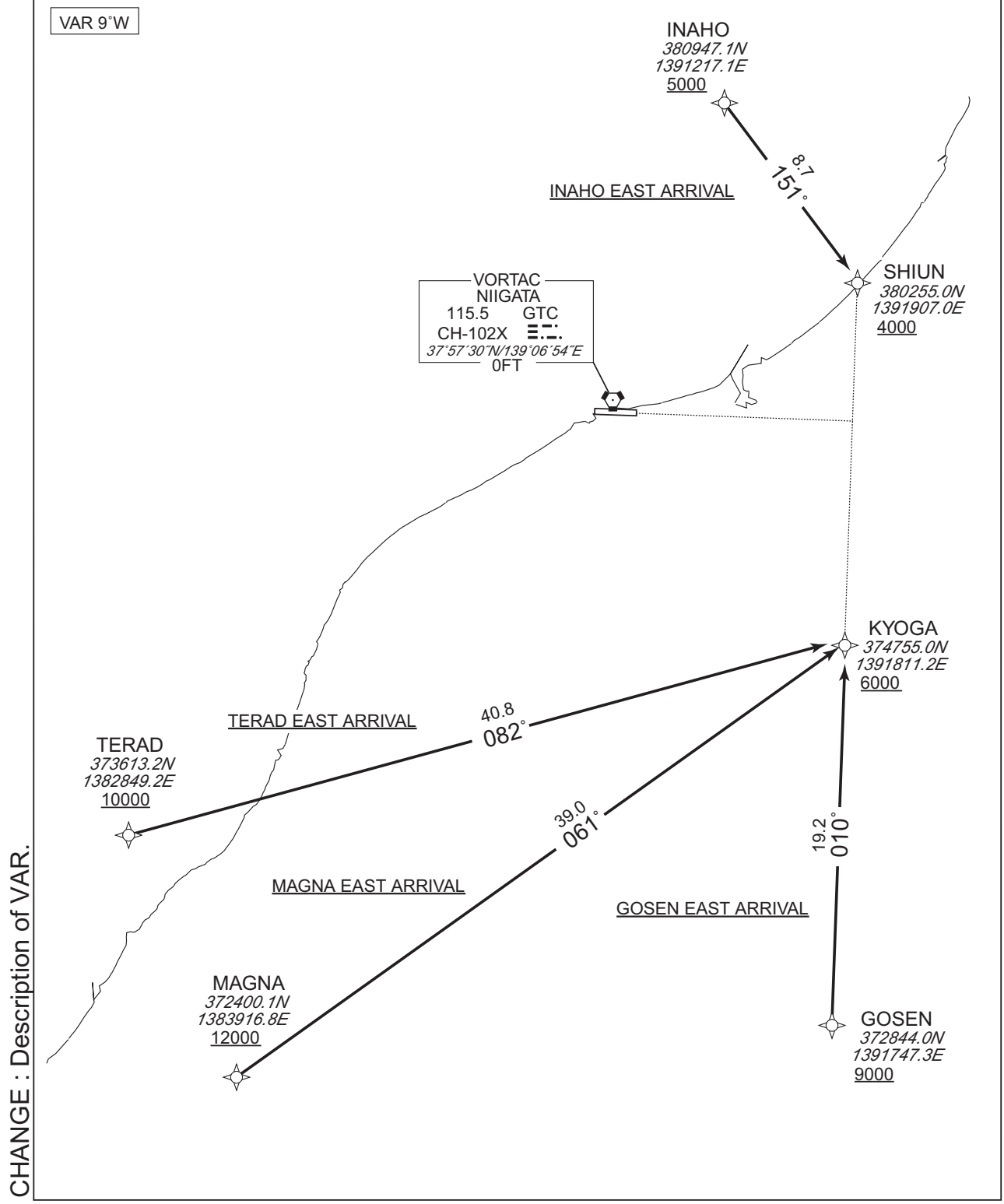
RJSN / NIIGATA

RNAV STAR RWY28

INAHO EAST ARRIVAL
GOSEN EAST ARRIVAL
MAGNA EAST ARRIVAL
TERAD EAST ARRIVAL

RNAV1

Note 1) GNSS required.
2) RADAR service required.



STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA RNAV STAR RWY28

INAHO EAST ARRIVAL

From INAHO at or above 5000FT, to SHIUN at or above 4000FT.

Critical DME	–
DME GAP	INAHO - SHIUN
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	INAHO	–	–	-8.6	–	–	+5000	–	–	RNAV1
002	TF	SHIUN	–	151 (141.9)	-8.6	8.7	–	+4000	–	–	RNAV1

GOSEN EAST ARRIVAL

From GOSEN at or above 9000FT, to KYOGA at or above 6000FT.

Critical DME	–
DME GAP	GOSEN - KYOGA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	GOSEN	–	–	-8.6	–	–	+9000	–	–	RNAV1
002	TF	KYOGA	–	010 (000.9)	-8.6	19.2	–	+6000	–	–	RNAV1

MAGNA EAST ARRIVAL

From MAGNA at or above 12000FT, to KYOGA at or above 6000FT.

Critical DME	GTC:MAGNA - 10.0NM to KYOGA NTE:MAGNA - 10.0NM to KYOGA
DME GAP	10.0NM to KYOGA - KYOGA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	MAGNA	–	–	-8.6	–	–	+12000	–	–	RNAV1
002	TF	KYOGA	–	061 (052.0)	-8.6	39.0	–	+6000	–	–	RNAV1

TERAD EAST ARRIVAL

From TERAD at or above 10000FT, to KYOGA at or above 6000FT.

Critical DME	–
DME GAP	TERAD - KYOGA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	TERAD	–	–	-8.6	–	–	+10000	–	–	RNAV1
002	TF	KYOGA	–	082 (073.1)	-8.6	40.8	–	+6000	–	–	RNAV1

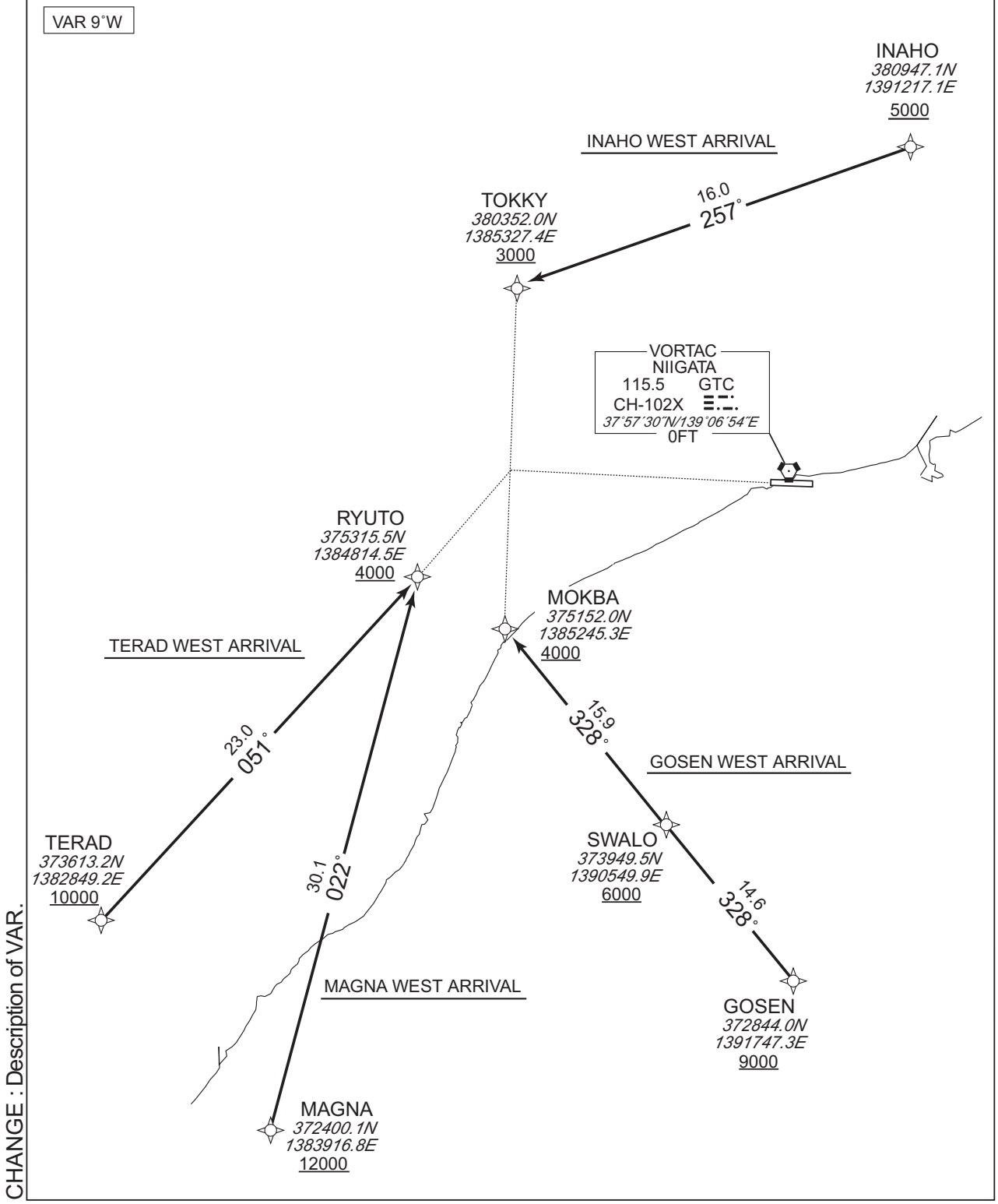
CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA — RNAV STAR RWY10

INAHO WEST ARRIVAL GOSEN WEST ARRIVAL MAGNA WEST ARRIVAL TERAD WEST ARRIVAL	RNAV1

Note 1) GNSS required.
2) RADAR service required.



RJSN / NIIGATA RNAV STAR RWY10

CHANGE : VAR. PROC course FM TERAD to RYUTO.

INAHO WEST ARRIVAL

From INAHO at or above 5000FT, to TOKKY at or above 3000FT.

Critical DME	–
DME GAP	INAHO - TOKKY
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	INAHO	–	–	-8.6	–	–	+5000	–	–	RNAV1
002	TF	TOKKY	–	257 (248.3)	-8.6	16.0	–	+3000	–	–	RNAV1

GOSEN WEST ARRIVAL

From GOSEN at or above 9000FT, to SWALO at or above 6000FT, to MOKBA at or above 4000FT.

Critical DME	–
DME GAP	GOSEN - MOKBA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	GOSEN	–	–	-8.6	–	–	+9000	–	–	RNAV1
002	TF	SWALO	–	328 (319.5)	-8.6	14.6	–	+6000	–	–	RNAV1
003	TF	MOKBA	–	328 (319.4)	-8.6	15.9	–	+4000	–	–	RNAV1

MAGNA WEST ARRIVAL

From MAGNA at or above 12000FT, to RYUTO at or above 4000FT.

Critical DME	GTC:MAGNA - 15.0NM to RYUTO NTE:MAGNA - 15.0NM to RYUTO
DME GAP	15.0NM to RYUTO - RYUTO
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	MAGNA	–	–	-8.6	–	–	+12000	–	–	RNAV1
002	TF	RYUTO	–	022 (013.6)	-8.6	30.1	–	+4000	–	–	RNAV1

TERAD WEST ARRIVAL

From TERAD at or above 10000FT, to RYUTO at or above 4000FT.

Critical DME	–
DME GAP	TERAD - RYUTO
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

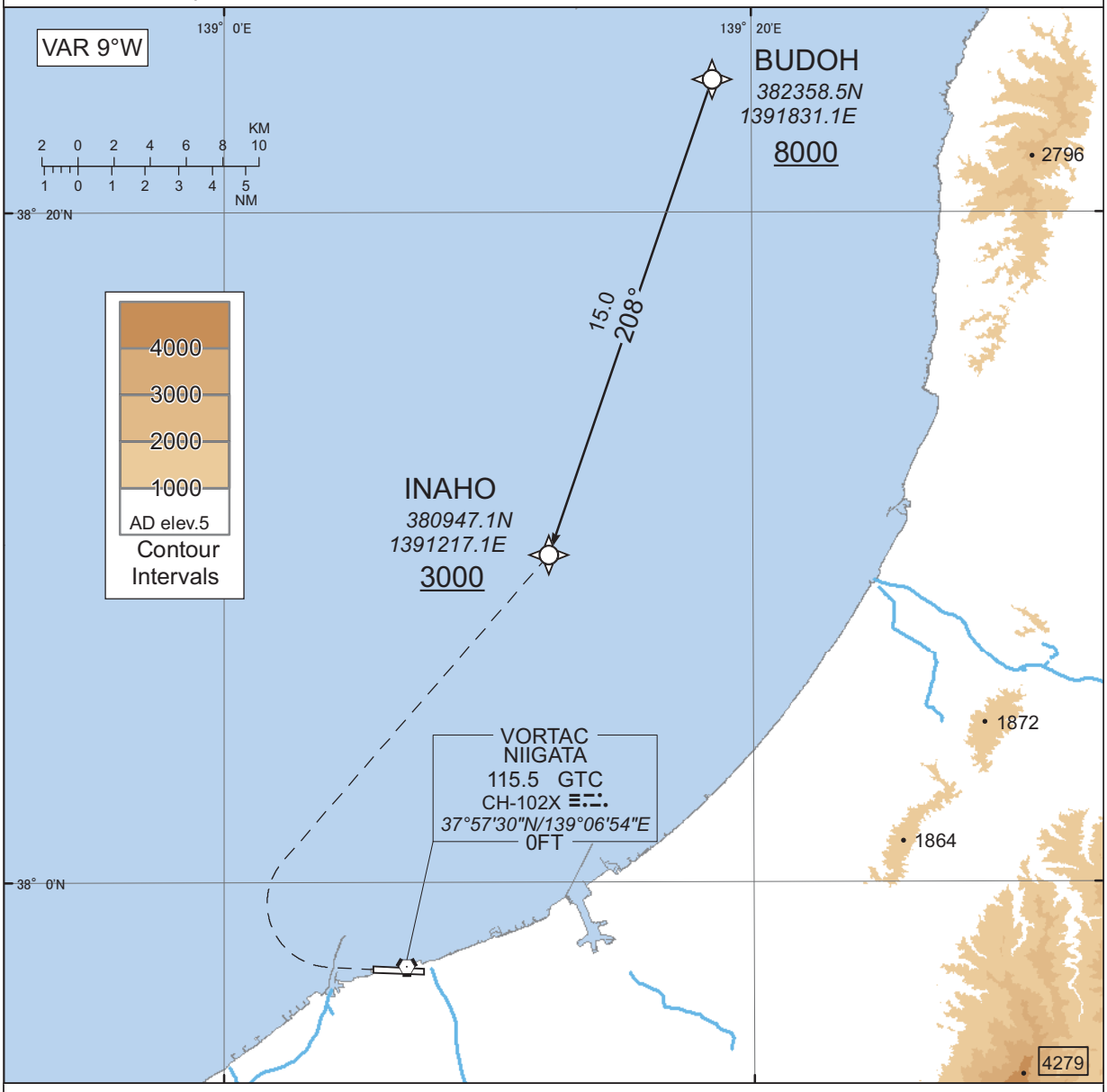
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TERAD	–	–	-8.6	–	–	+10000	–	–	RNAV1
002	TF	RYUTO	–	051 (041.9)	-8.6	23.0	–	+4000	–	–	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJSN / NIIGATA — RNAV STAR RWY10

KAETSU ARRIVAL	Basic RNP1

Note GNSS required.



From BUDOH at or above 8000FT, to INAHO at or above 3000FT.

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	BUDOH	-	208 (199.1)	-8.6	-	-	+8000	-	-	Basic RNP1
002	TF	INAHO	-	-	-8.6	15.0	-	+3000	-	-	Basic RNP1

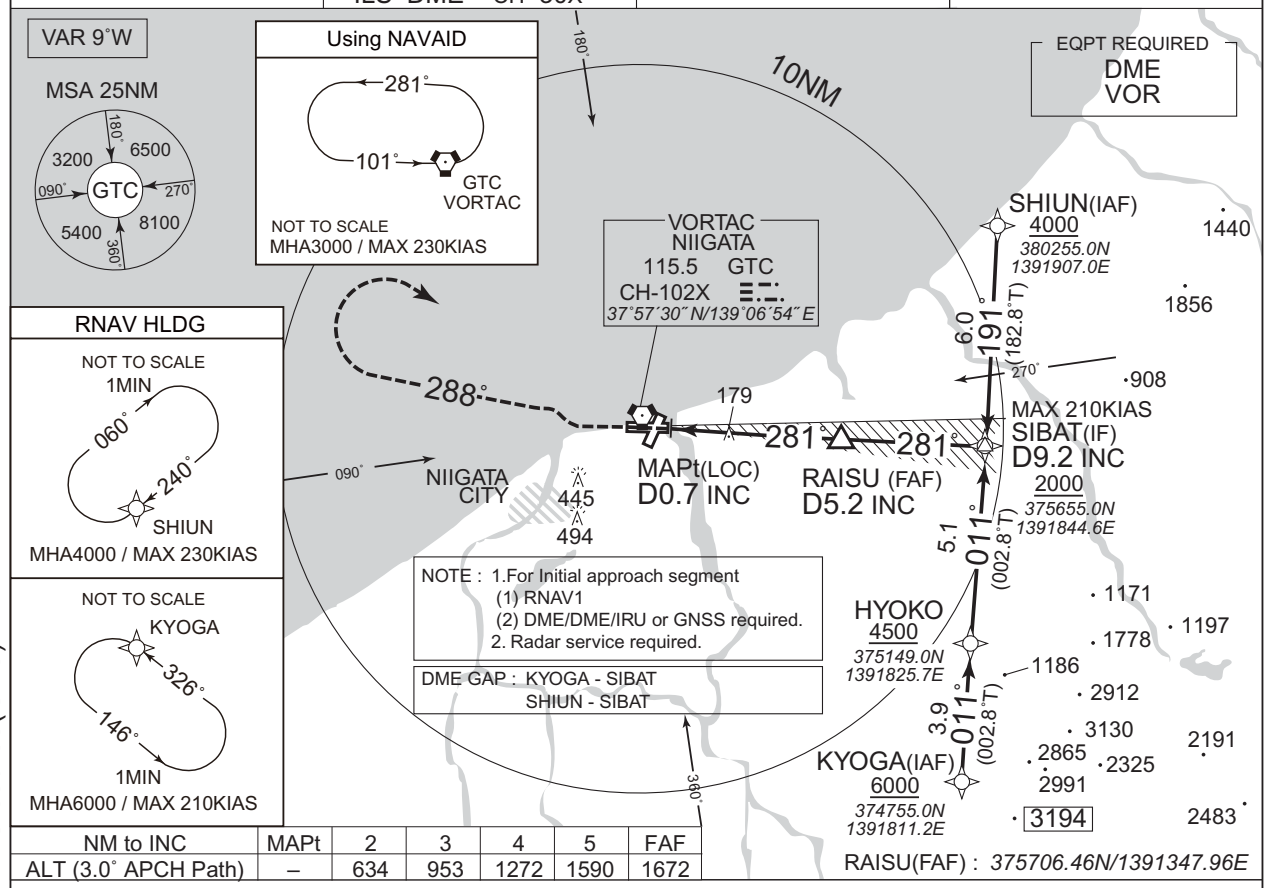
CHANGE : New PROC.

INTENTIONALLY LEFT BLANK

INSTRUMENT APPROACH CHART

RJSN / NIIGATA — ILS Z or LOC Z RWY28

NIIGATA APP	ILS – LOC	NIIGATA TOWER	RADAR AVBL
121.4	109.3 INC ILS–GP 332.0 ILS–DME CH–30X	118.0 – 126.2	ATIS 128.45



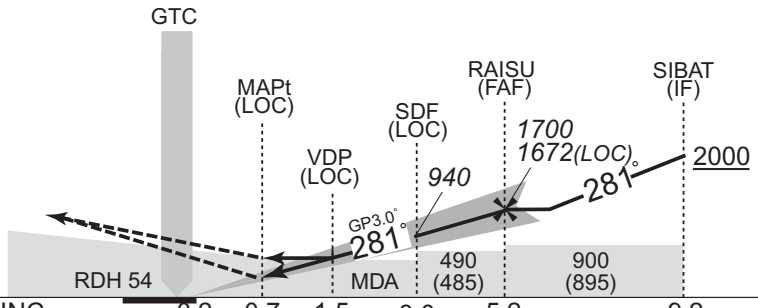
RAISU(FAF) : *375706.46N/1391347.96E*

NM to INC	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	634	953	1272	1590	1672

MISSED APPROACH

Climb to 2000FT via GTC R288,
turn right, direct to GTC VORTAC
and hold at 3000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.



DME to INC	0.2	0.7	1.5	3.0	5.2	9.2
NM to THR	0	0.5	1.3	2.8	5.1	9.0

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 10 AD elev. 5

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	210 (200)	700	470 (465)	1400	710 (705)	1600
B				1500		
C				1600	790 (785)	2400
D				1800		3200

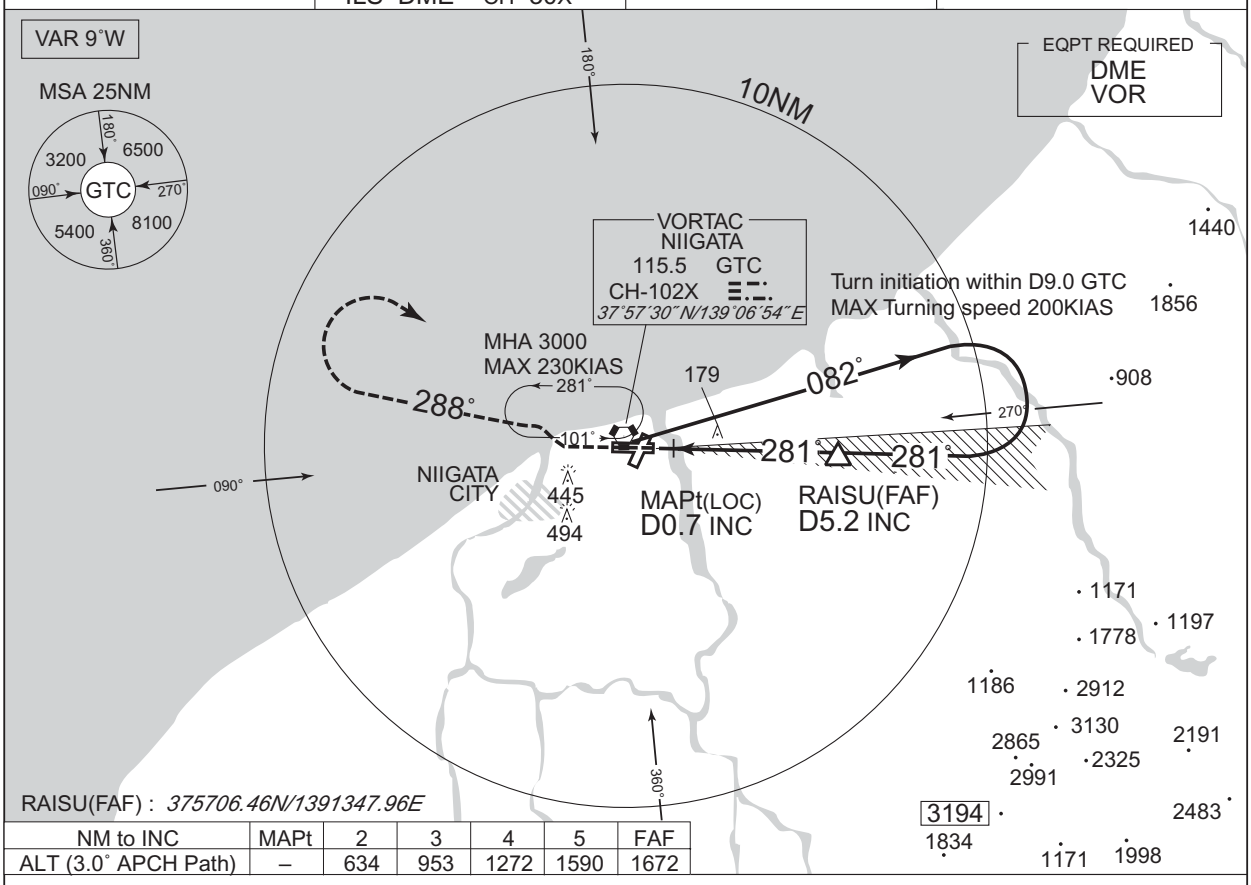
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : MSA(BTN 270°and 360°). Missed APCH course. HLDG course(GTC).

INSTRUMENT APPROACH CHART

RJSN / NIIGATA — ILS Y or LOC Y RWY28

NIIGATA APP	ILS – LOC	NIIGATA TOWER	RADAR AVBL
121.4	109.3 INC ILS–GP 332.0 ILS–DME CH–30X	118.0 – 126.2	ATIS 128.45

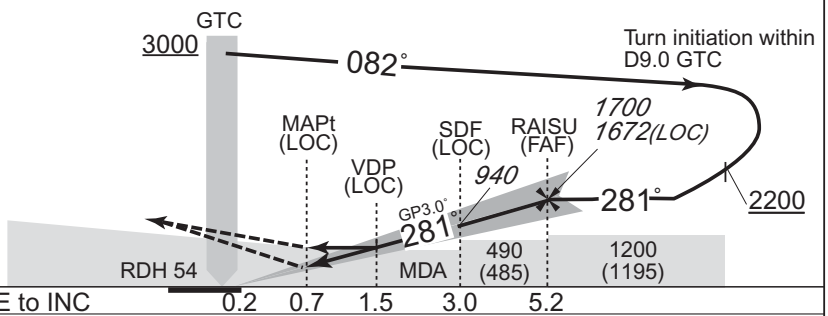


NM to INC	MAPt	2	3	4	5	FAF
ALT (3.0˚ APCH Path)	–	634	953	1272	1590	1672

MISSED APPROACH

Climb to 2000FT via GTC R288,
turn right, direct to GTC
VORTAC and hold at 3000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.



DME to INC		0.2	0.7	1.5	3.0	5.2
NM to THR		0	0.5	1.3	2.8	5.1

Missed APCH climb gradient MNM 3.0%

MINIMA — THR elev. 10 — AD elev. 5

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	210 (200)	700	470 (465)	1400	710 (705)	1600
B				1500		
C				1600	790 (785)	2400
D				1800		3200

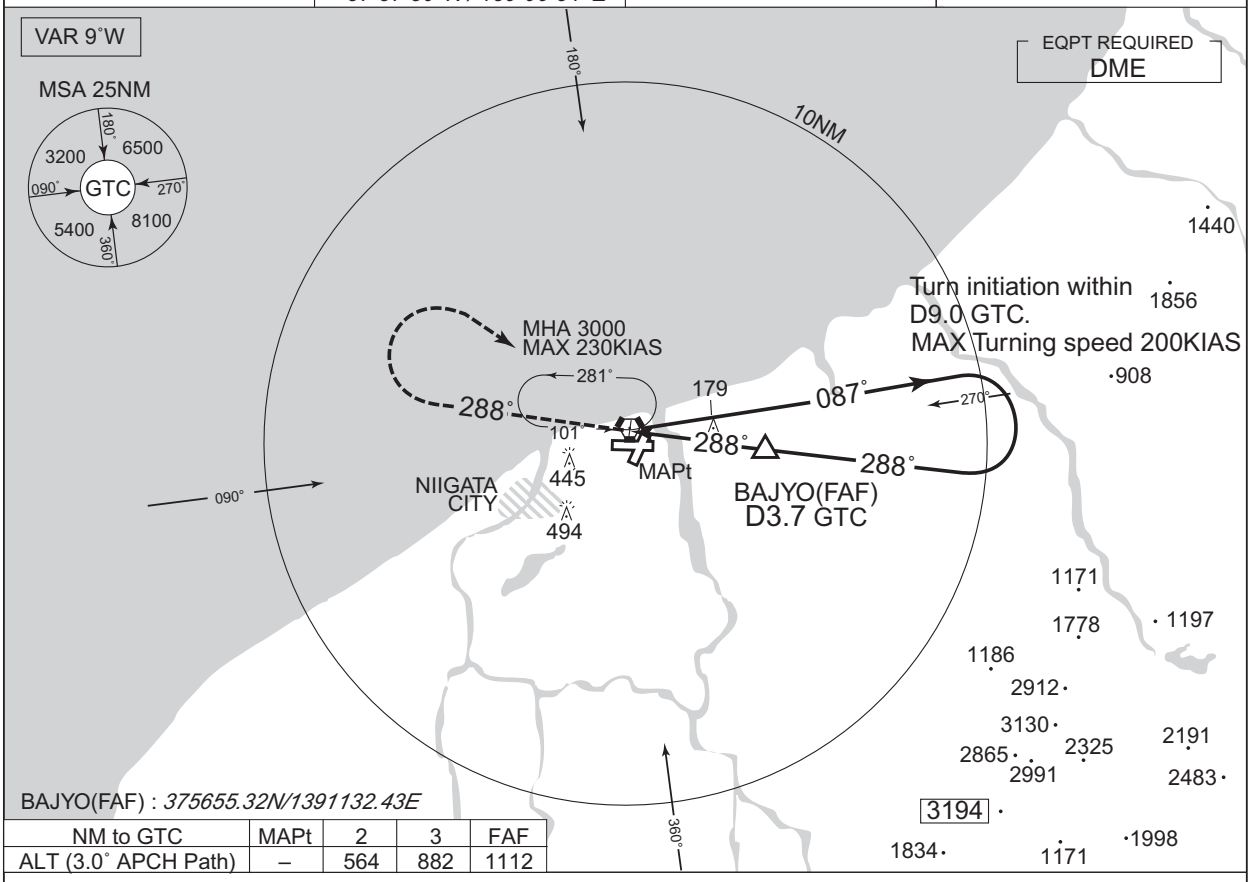
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : MSA(BTN 270˚and 360˚). PROC course. Missed APCH course. HLDG course.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA VOR RWY28

NIIGATA APP	NIIGATA VORTAC	NIIGATA TOWER	RADAR AVAILABLE
121.4	115.5 GTC CH–102X 37°57′30″N / 139°06′54″E	118.0 – 126.2	ATIS 128.45

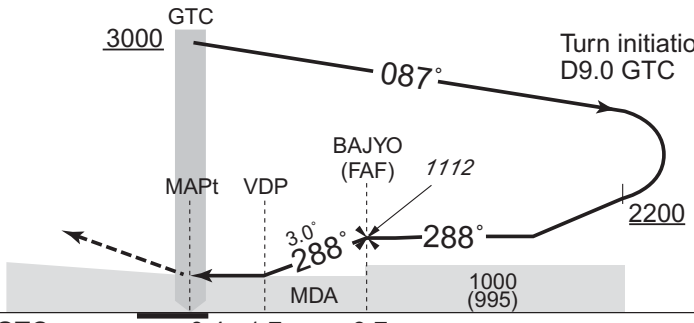


NM to GTC	MAPt	2	3	FAF
ALT (3.0° APCH Path)	–	564	882	1112

MISSED APPROACH

Climb to 2000FT via GTC R288,
turn right, direct to GTC VORTAC
and hold at 3000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.



DME to GTC	0.4	1.7	3.7
NM to THR	0	1.3	3.3

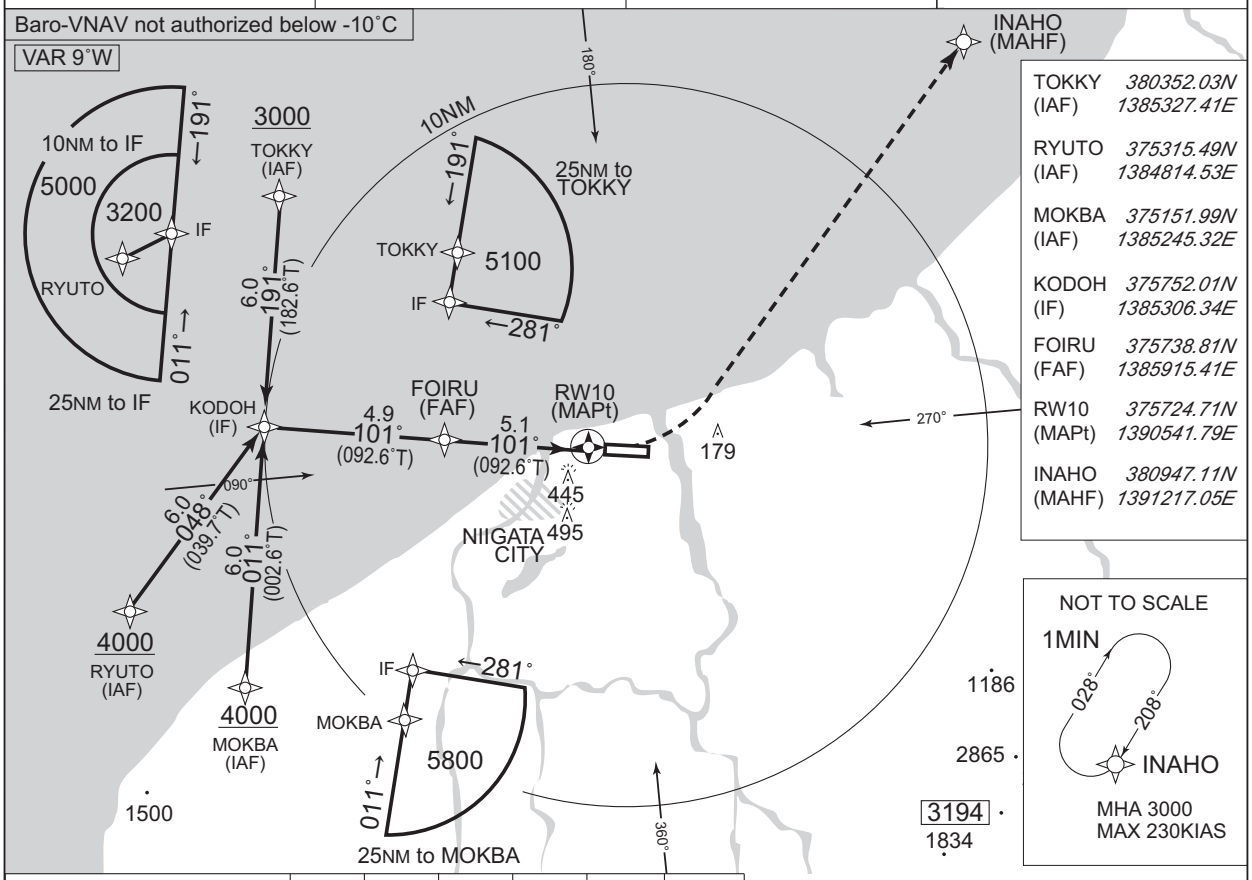
MINIMA	THR elev. 10		AD elev. 5	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	450 (445)	1200	710 (705)	1600
B		1300		
C		1400	790 (785)	2400
D		1600		3200

CHANGE : MSA(BTN 270°and 360°). PROC course. Missed APCH course. HLDG course.

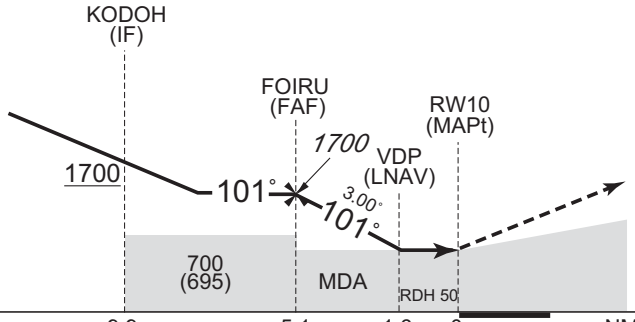
INSTRUMENT APPROACH CHART

RJSN / NIIGATA RNP Z RWY10

NIIGATA APP	RNP APCH	NIIGATA TOWER	RADAR AVBL
121.4		118.0 – 126.2	ATIS 128.45



NM To Next Fix	FAF	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	1700	1669	1350	1032	713	–



MISSED APPROACH

Turn left, direct to INAHO
and hold at 3000FT.
Contact NIIGATA APP.

MINIMA THR elev. 27 AD elev. 5

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	580 (553)	1400	580 (575)	1400	710 (705)	1600
B		1500		1500		
C		1600		1600	790 (785)	2400
D		1800		1800		3200

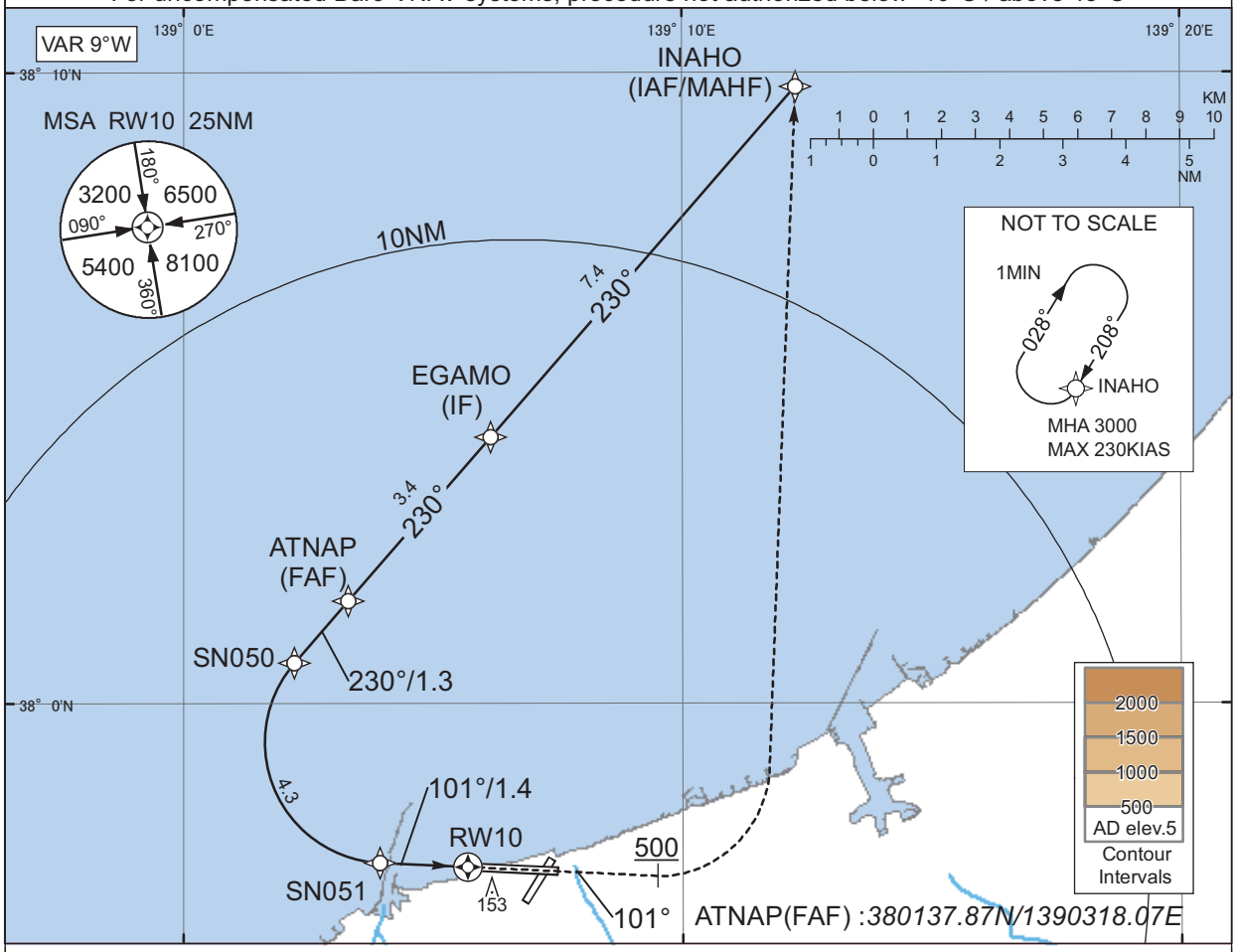
CHANGE : PROC renamed.

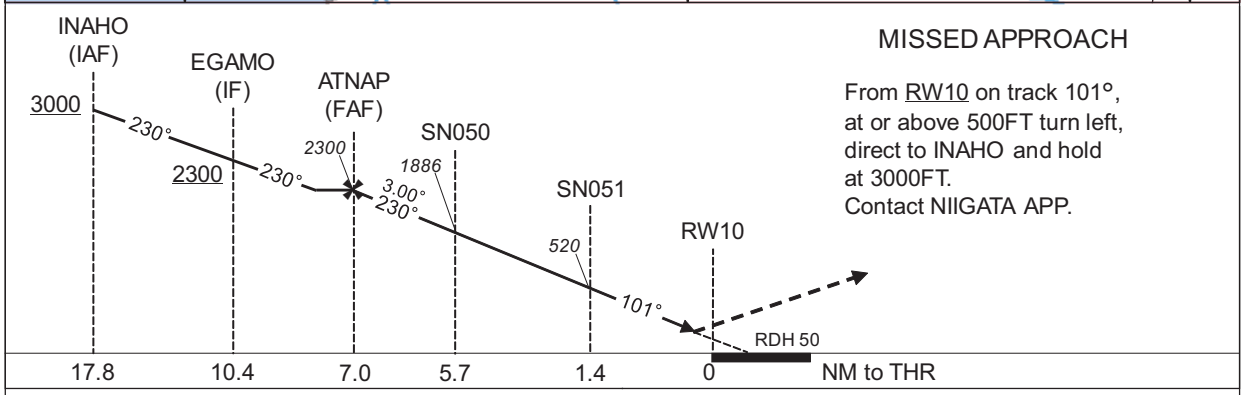
INSTRUMENT APPROACH CHART

RJSN / NIIGATA — RNP Y RWY10(AR)

NIIGATA APP 121.4	RNP AR RF required.	NIIGATA TOWER 118.0 – 126.2	RADAR AVBL ATIS 128.45

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C





MISSED APPROACH

From RW10 on track 101°,
at or above 500FT turn left,
direct to INAHO and hold
at 3000FT.
Contact NIIGATA APP.

MINIMA	THR elev. 27	AD elev. 5
CAT	RNP 0.30	
	DA(H)	CMV
A	-	-
B		
C	305(278)	1200
D	315(288)	1400

Authorization Required

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA RNP Y RWY10(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	INAHO	-	-	-8.6	-	-	+3000	-	-	-
002	TF	EGAMO	-	230 (221.0)	-8.6	7.4	-	+2300	-	-	1.0
003	TF	ATNAP	-	230 (220.9)	-8.6	3.4	-	2300	-	-	1.0
004	TF	SN050	-	230 (220.9)	-8.6	1.3	-	1886	-	-3.00	0.3
005	RF Center: SNRF1 r=1.91NM	SN051	-	-	-8.6	4.3	L	520	-	-3.00	0.3
006	TF	RW10	Y	101 (092.7)	-8.6	1.4	-	77	-	-3.00/50	0.3
007	FA	-	-	101 (092.7)	-8.6	-	-	+500	-	-	1.0
008	DF	INAHO	-	-	-8.6	-	L	3000	-	-	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	INAHO	208 (199.1)	-8.6	1.0 (-14000)	R	3000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

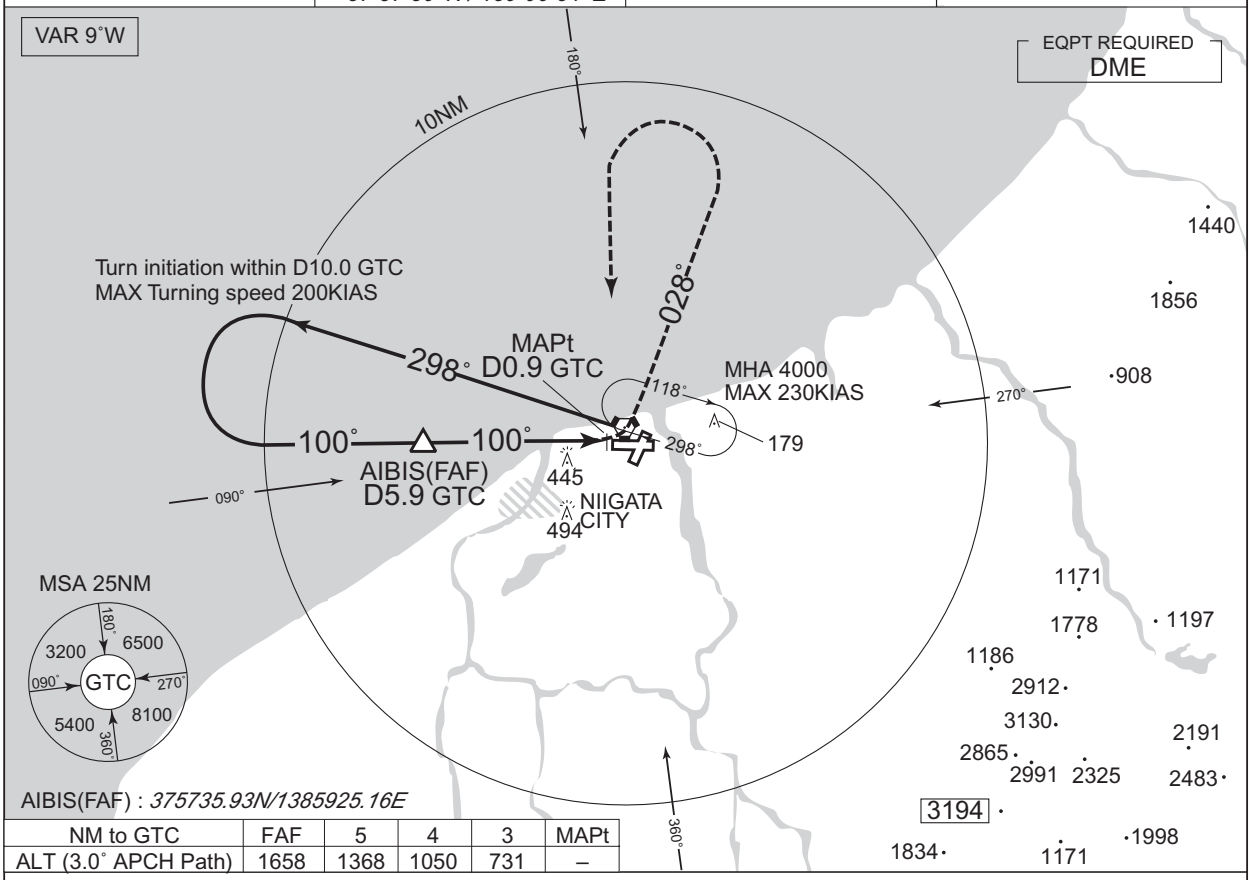
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
INAHO	*380947.11N / 1391217.05E*	SNRF1	*375923.46N / 1390402.94E*
EGAMO	*380413.79N / 1390609.55E*		
ATNAP	*380137.87N / 1390318.07E*		
SN050	*380038.89N / 1390213.27E*		
SN051	*375728.60N / 1390356.21E*		
RW10	*375724.71N / 1390541.79E*		

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJSN / NIIGATA VOR RWY10

NIIGATA APP	NIIGATA VORTAC	NIIGATA TOWER	RADAR AVAILABLE
121.4	115.5 GTC CH–102X *37°57′30″N / 139°06′54″E*	118.0 – 126.2	ATIS 128.45

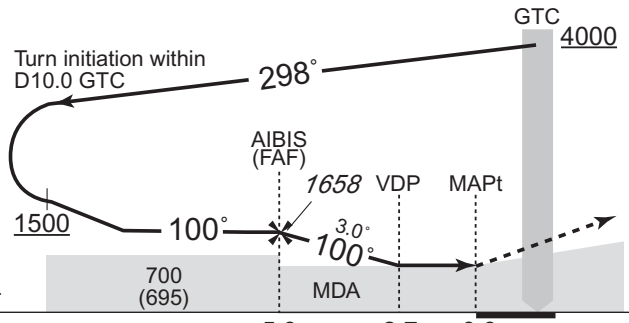


NM to GTC	FAF	5	4	3	MAPt
ALT (3.0° APCH Path)	1658	1368	1050	731	–

MISSED APPROACH

Turn left, climb to 2000FT via GTC R028, turn left, direct to GTC VORTAC and hold at 4000FT.
Contact NIIGATA APP.

Timing not authorized for defining the MAPt.

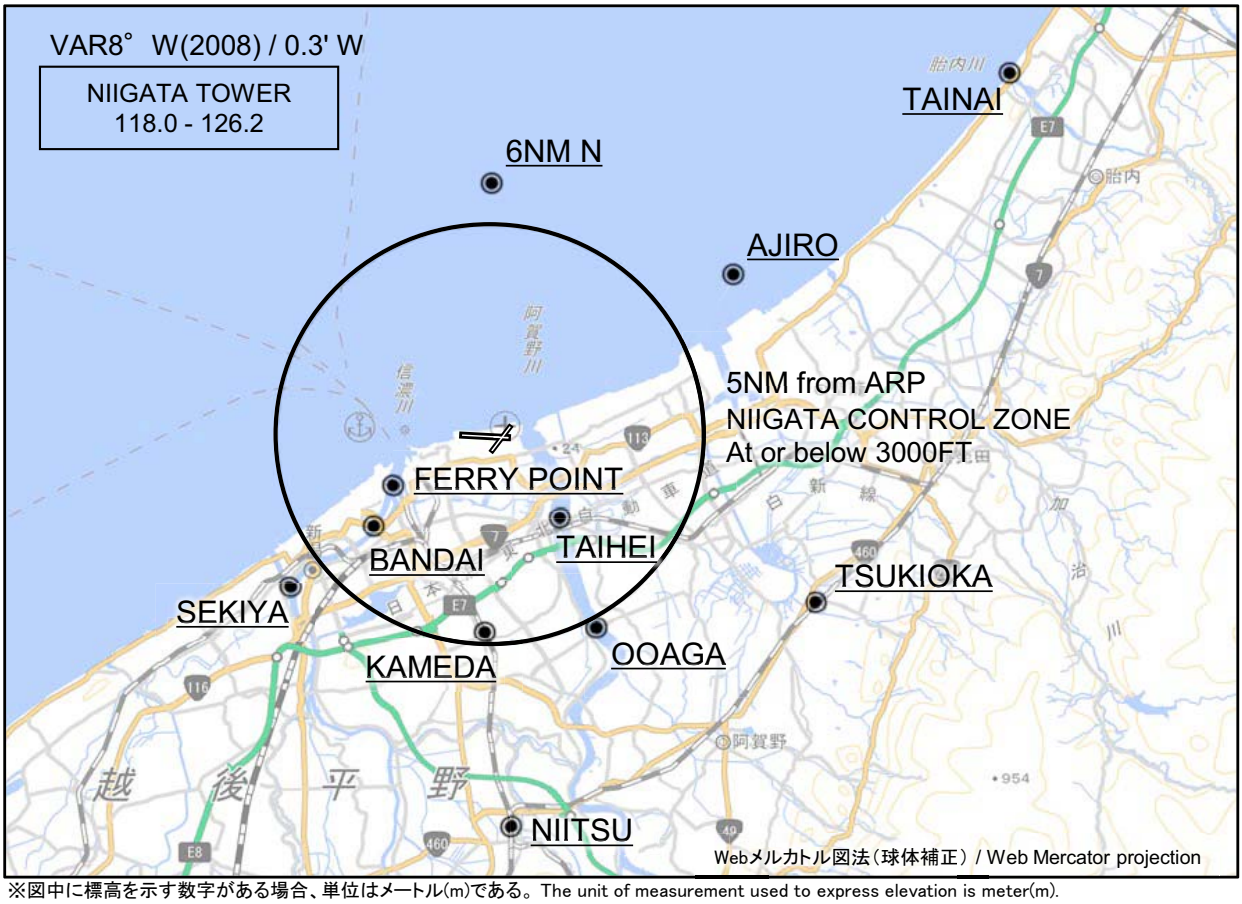


MINIMA	THR elev. 27		AD elev. 5	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	630 (625)	1400	710 (705)	1600
B		1500		
C		1600	790 (785)	2400
D		1800		3200

INTENTIONALLY LEFT BLANK

RJSN / NIIGATA

Visual REP



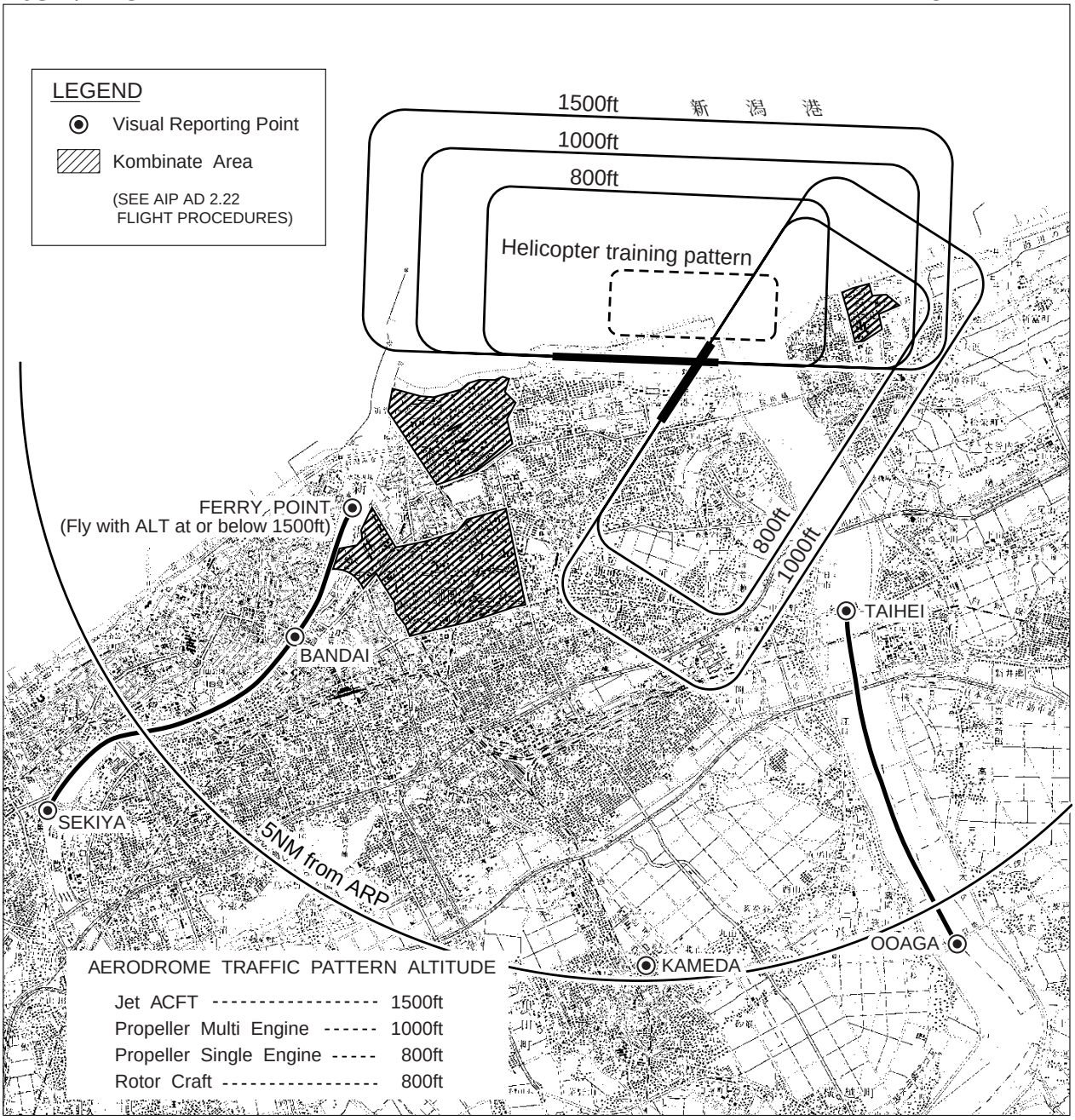
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
胎内 Tainai	054°T / 14.9NM	胎内川河口 River-mouth
6NM N	360°T / 6.0NM	海上 Over the sea
網代 Ajiro	056°T / 6.9NM	防波堤突端の赤色灯台 Red lighthouse at the tip of breakwater
*フェリーポイント Ferry point	243°T / 2.6NM	万代橋より信濃川下流2kmの地点 （1,500FT以下で通過すること） The point 2km down the Shinano from the Bandai Bridge.(Fly with ALT at or below 1500FT)
*泰平 Taihei	141°T / 2.5NM	橋 Bridge
*万代 Bandai	232°T / 3.5NM	橋 Bridge
関屋 Sekiya	232°T / 6.0NM	分水路への分岐点 Diverging-point for Flood-control channel
月岡 Tsukioka	118°T / 8.6NM	JR駅 Station
大阿賀 Ooaga	152°T / 5.2NM	橋 Bridge
亀田 Kameda	182°T / 4.7NM	JR駅 Station
新津 Niitsu	177°T / 9.4NM	JR駅 Station

*ヘリコプター Use for helicopter

RJSN / NIIGATA TFC PATTERN



阿賀野ルート：大阿賀～泰平間の阿賀野川に沿う飛行経路（回転翼航空機用）

AGANO ROUTE : The route along Agano river between OOAGA and TAIHEI (Use for Rotor Craft)

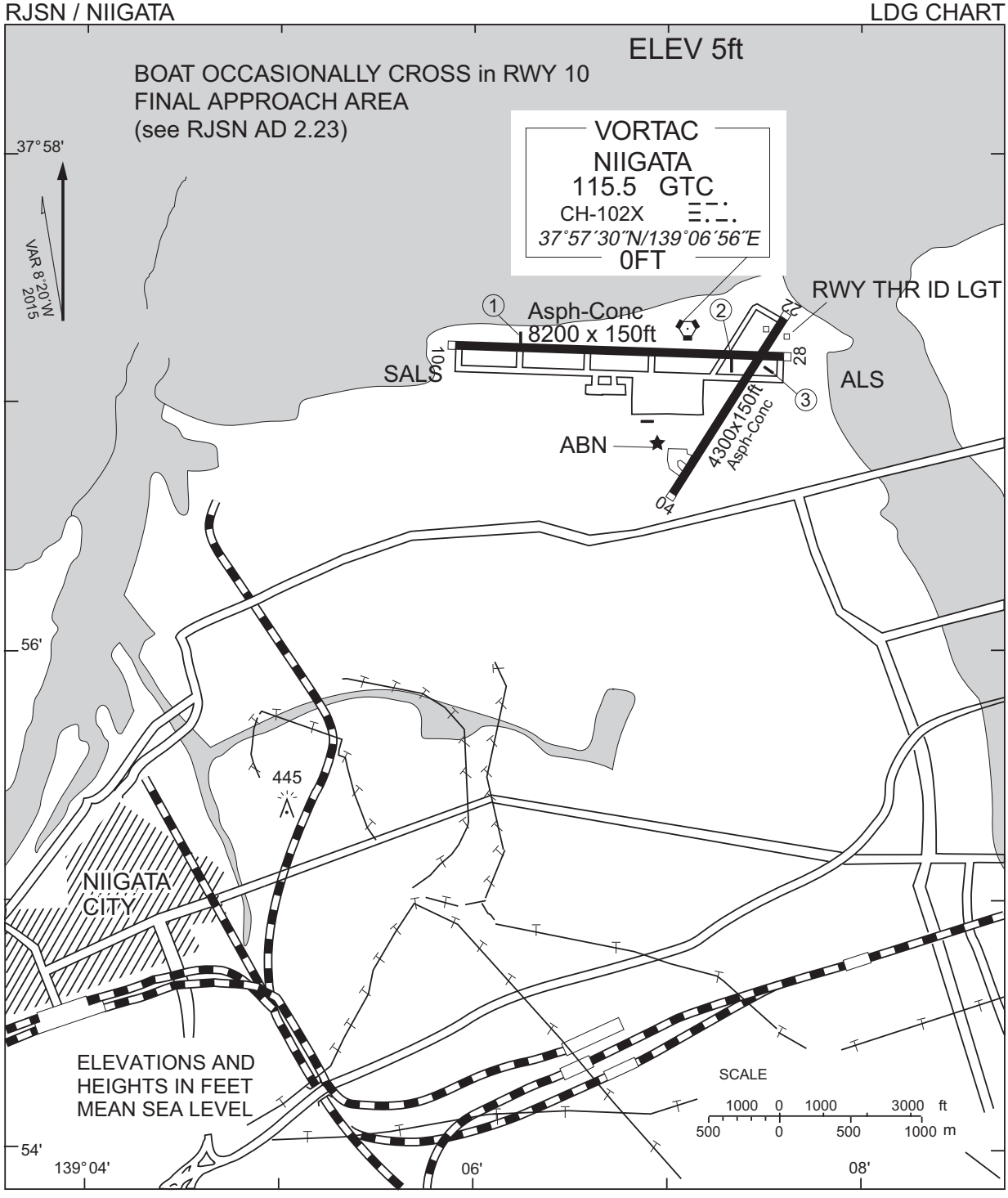
信濃ルート：関屋～万代～フェリーポイント間の信濃川に沿う飛行経路（回転翼航空機用）

SHINANO ROUTE : The route along Shinano river between SEKIYA, BANDAI and FERRY POINT (Use for Rotor Craft)

※新潟タワーから上記ルートによる飛行の指示があった場合、VFR回転翼航空機は空港周辺における航空機騒音軽減のためVMCを維持できない場合を除き可能な限り当該ルートに沿って飛行することが望ましい。

※In order to reduce aircraft noise in the vicinity of airport, VFR Rotor Craft is expected to follow the above mentioned route when insrtucted by Niigata tower. (except the case of IMC)

RJSN / NIIGATA LDG CHART



CHANGE : PAPI for RWY10, RWY28(MEHT, DIST FM THR).

①RWY10:	②RWY28:	③RWY22:
Angle 3.0°	Angle 3.0°	Angle 3.0°
MEHT 22.9m (75ft)	MEHT 19.9m (65ft)	MEHT 18.6m (61ft)
535m inside fm THR	455m inside fm THR	361m inside fm THR

RJSN / NIIGATA Minimum Vectoring Altitude CHART