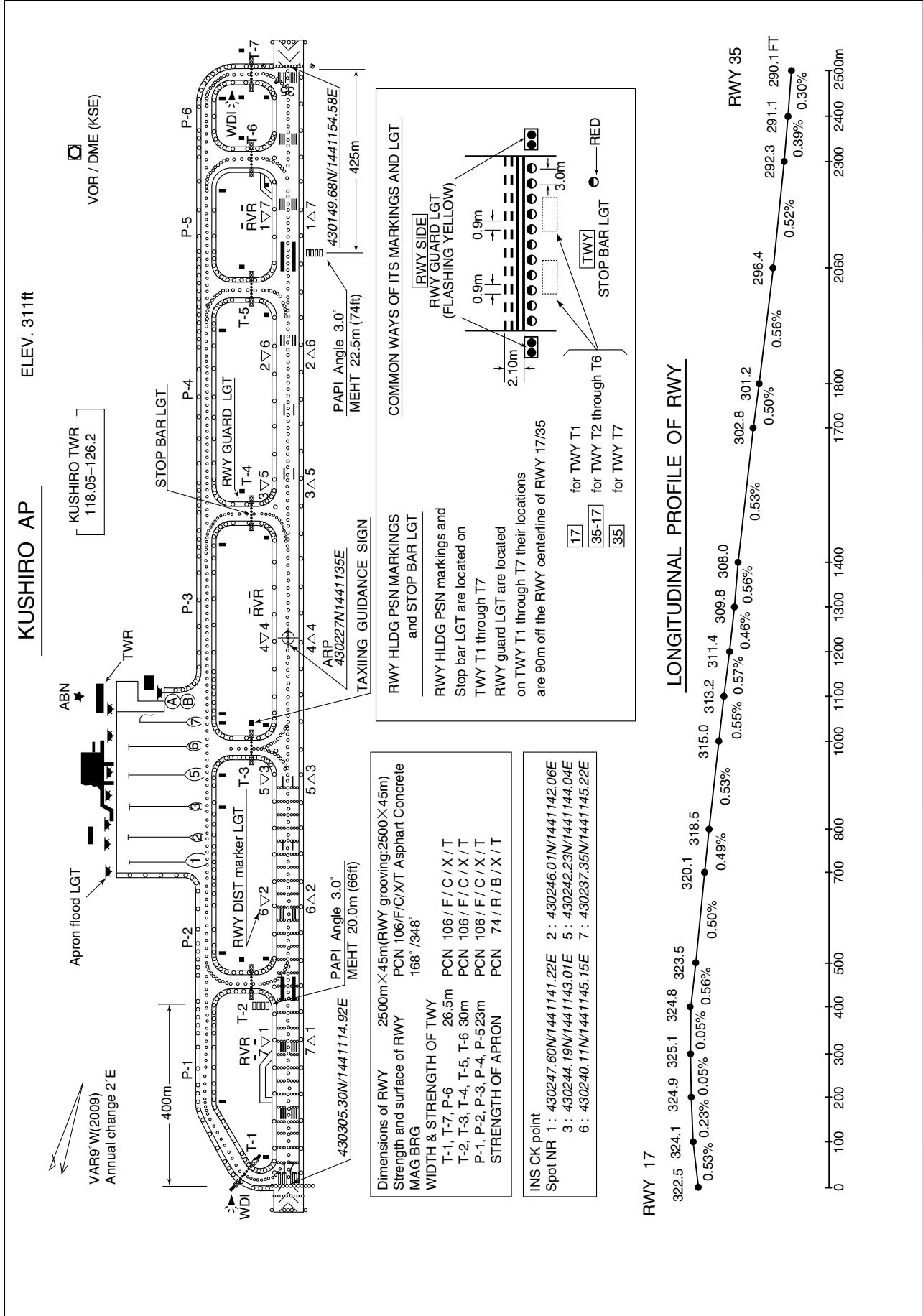


RJCK / KUSHIRO

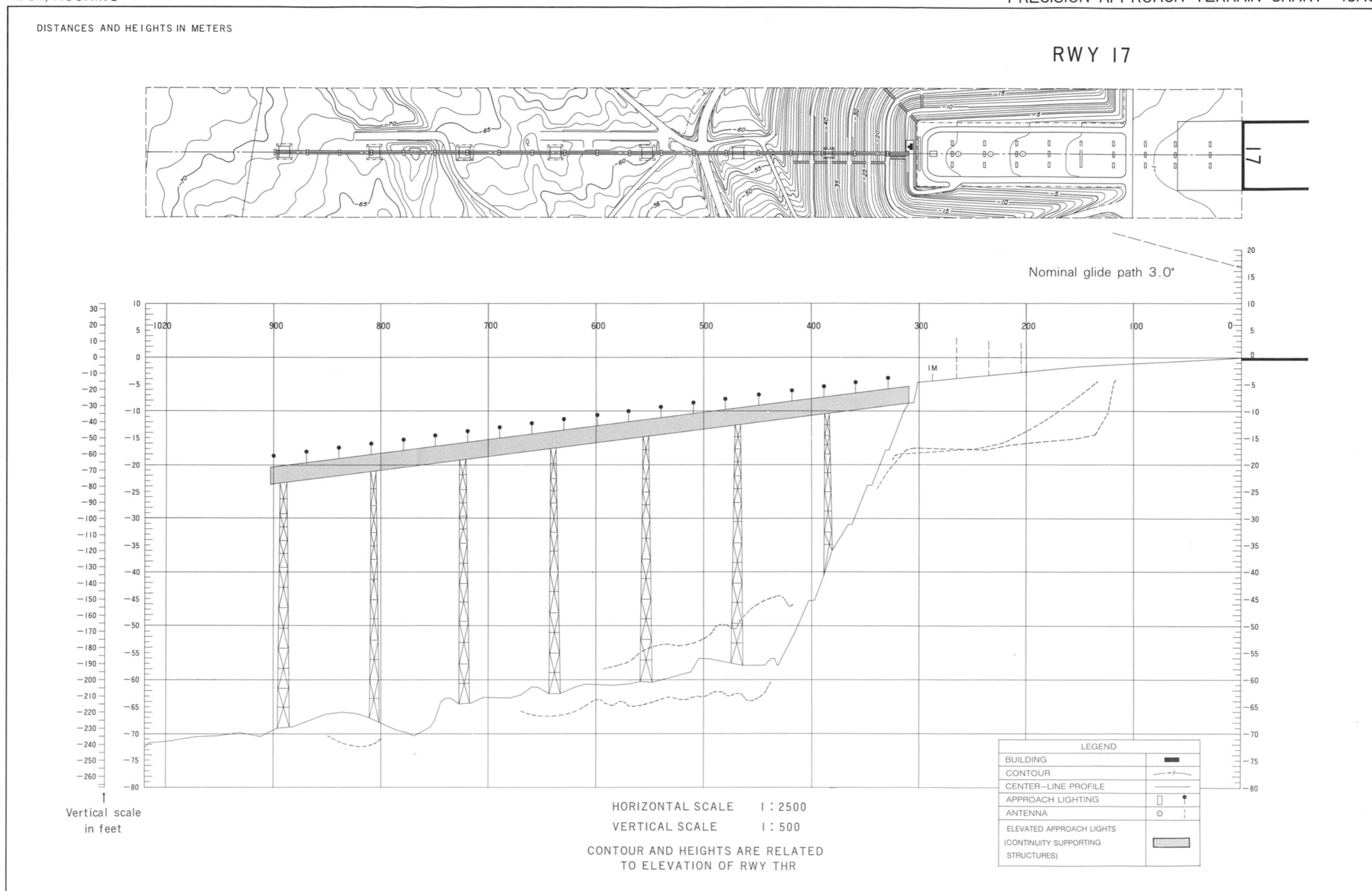
AD CHART



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RJCK/KUSHIRO

PRECISION APPROACH TERRAIN CHART—ICAO



STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

SID

ALICE THREE DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG155°...
...to intercept and proceed via KSE R200 to ALICE.
Cross ALICE at assigned altitude.

Note : No turn before DER.

ERIMO FOUR DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn left...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG116°...
...to intercept and proceed via KSE R161, via NSE R218, via KSE R200 to ERIMO.
Cross NSE R218/85.4DME at or above 10000FT.

Note : No turn before DER.

OBIHIRO THREE DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right HDG266°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG176°...
...to intercept and proceed via KSE R221, via OBE R097 to OBE VOR/DME.

Note : No turn before DER.

KUSHIRO REVERSAL FOUR DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG155°...
...to intercept and proceed via KSE R200 to 3000FT, turn left, direct to KSE VOR/DME.
Cross KSE VOR/DME at or above 5000FT.

Note : No turn before DER.

YUDOH TWO DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right HDG266°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG176°...
...to intercept and proceed via KSE R221 to YUDOH.

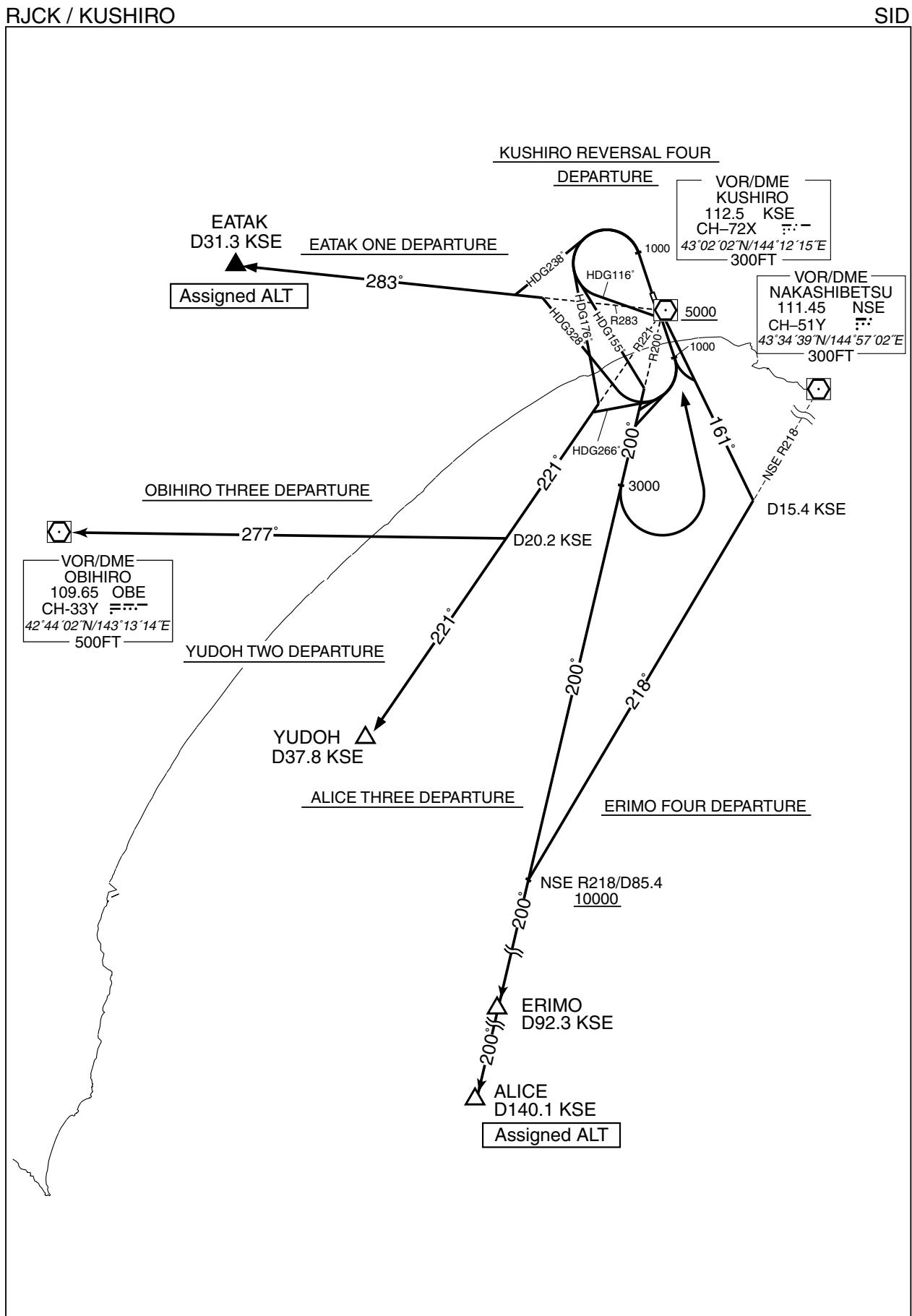
Note : No turn before DER.

EATAK ONE DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right HDG328°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG238°...
...to intercept and proceed via KSE R283 to EATAK.
Cross EATAK at assigned altitude.

Note : No turn before DER.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV SID

AKESI ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

AKESI ONE DEPARTURE

VOR/DME
KUSHIRO
112.5 KSE
CH-72X
43°02'02"N/144°12'15"E
300FT

AKESI
423316.4N
1440423.6E
10000

AKESI ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to AKESI at or above 10000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to AKESI at or above 10000FT.

RWY17

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	—	—	168 (159.0)	-8.9	—	—	+700	—	—	Basic RNP1
002	DF	AKESI	—	—	-8.9	—	R	+10000	—	—	Basic RNP1

RWY35

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	—	—	348 (339.0)	-8.9	—	—	+800	—	—	Basic RNP1
002	DF	AKESI	—	—	-8.9	—	L	+10000	—	—	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

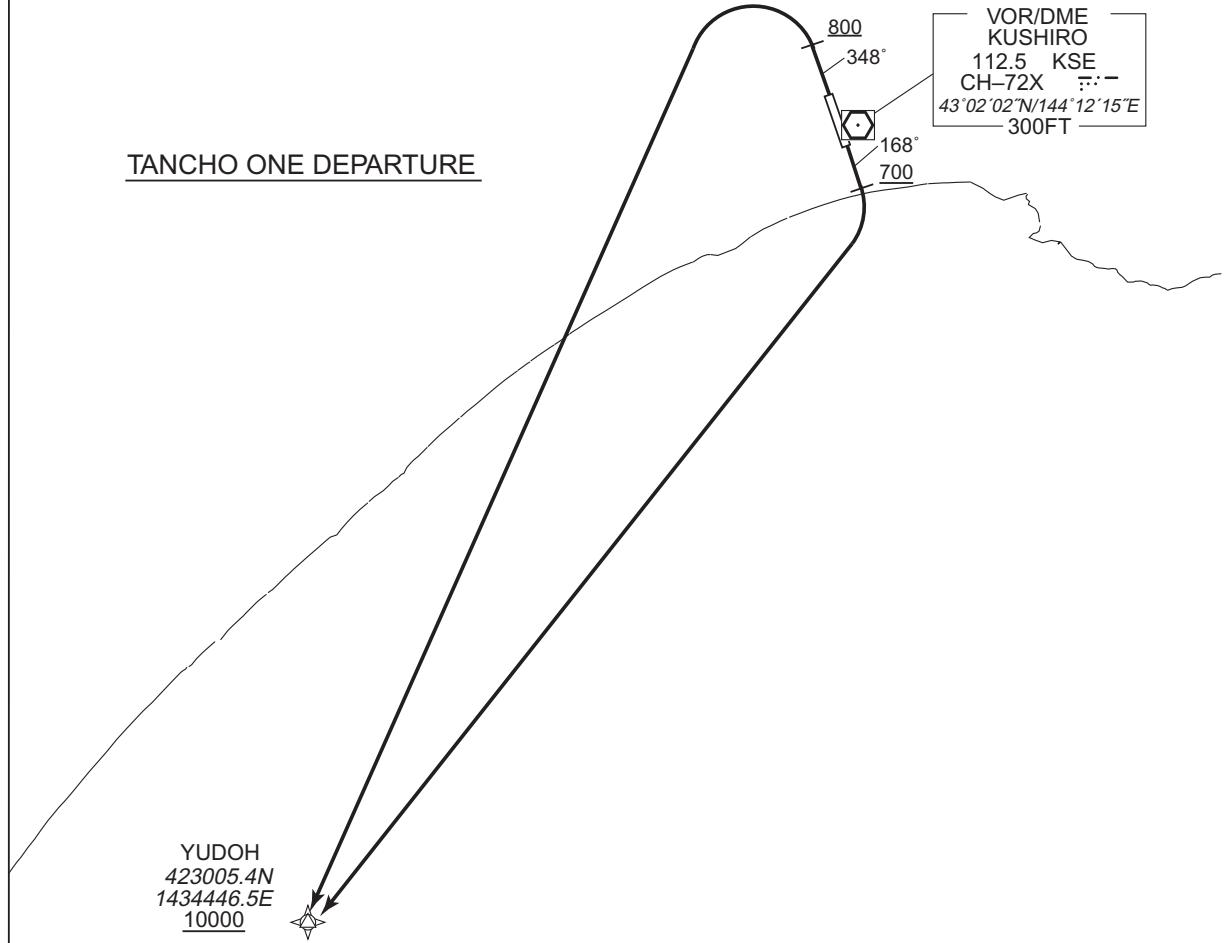
RNAV SID

TANCHO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

TANCHO ONE DEPARTURETANCHO ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to YUDOH at or above 10000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to YUDOH at or above 10000FT.

RWY17

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	—	—	168 (159.0)	-8.9	—	—	+700	—	—	Basic RNP1
002	DF	YUDOH	—	—	-8.9	—	R	+10000	—	—	Basic RNP1

RWY35

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	—	—	348 (339.0)	-8.9	—	—	+800	—	—	Basic RNP1
002	DF	YUDOH	—	—	-8.9	—	L	+10000	—	—	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

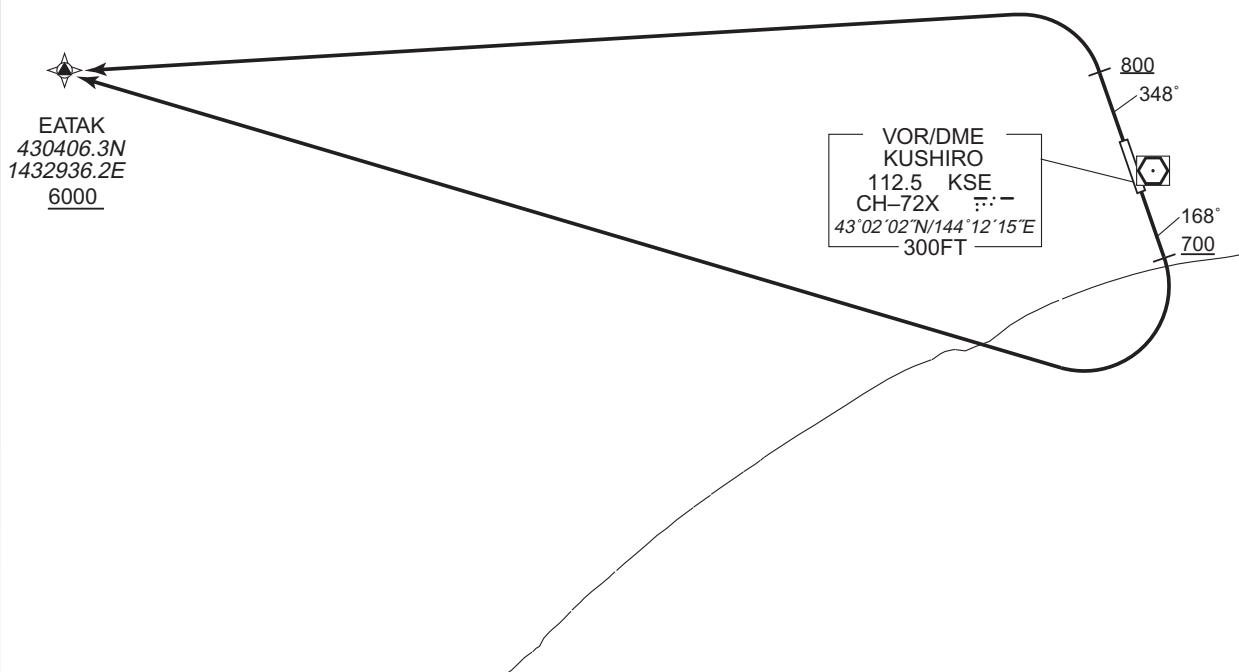
RNAV SID

ASHORO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

ASHORO ONE DEPARTUREASHORO ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to EATAK at or above 6000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to EATAK at or above 6000FT.

Note RWY17: No turn before DER.

RWY17

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	–	–	168 (159.0)	-8.9	–	–	+700	–	–	Basic RNP1
002	DF	EATAK	–	–	-8.9	–	R	+6000	–	–	Basic RNP1

RWY35

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	–	–	348 (339.0)	-8.9	–	–	+800	–	–	Basic RNP1
002	DF	EATAK	–	–	-8.9	–	L	+6000	–	–	Basic RNP1

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STANDARD ARRIVAL CHART -INSTRUMENT

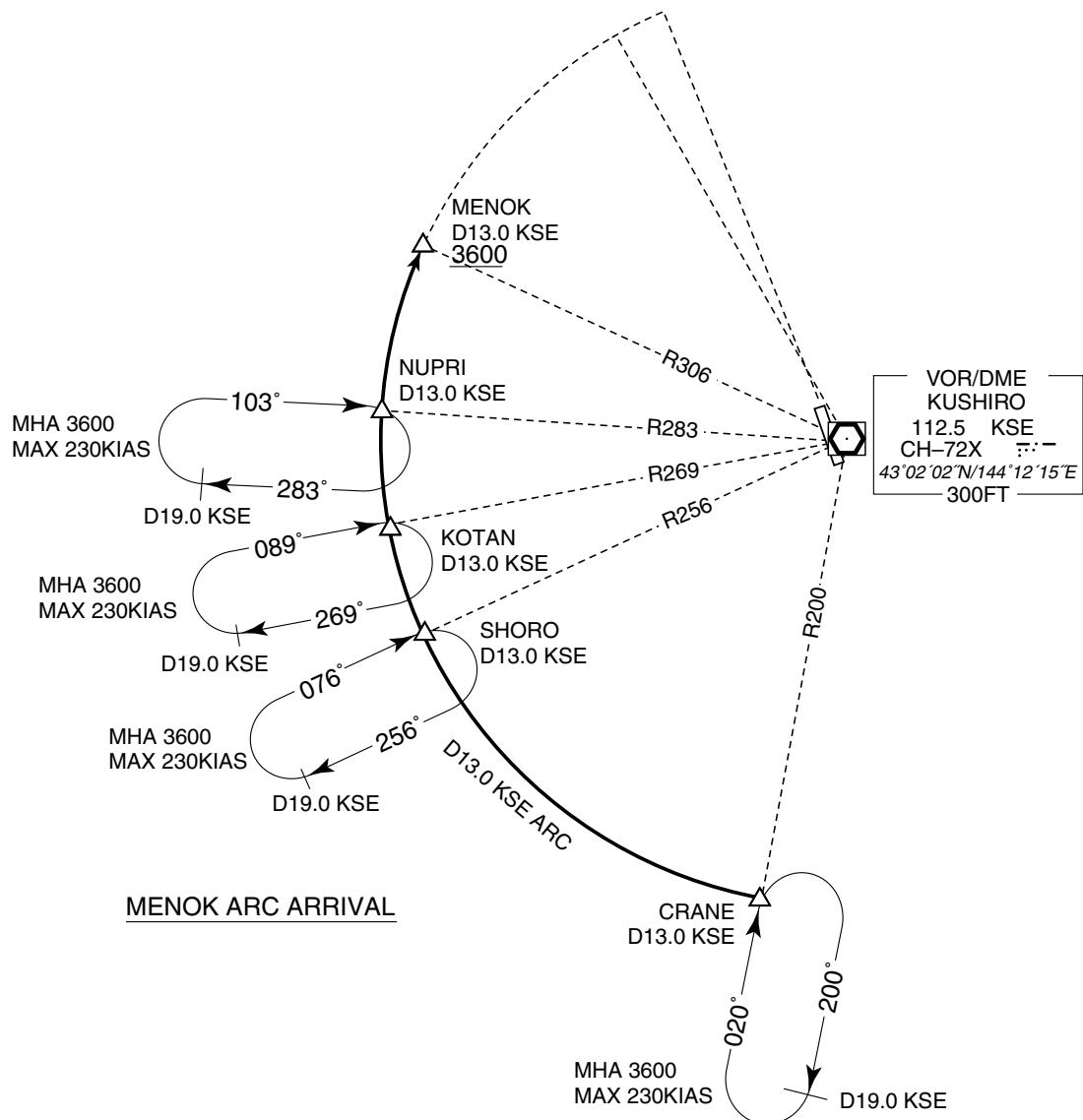
RJCK / KUSHIRO

STAR

MENOK ARC ARRIVAL

From over CRANE, SHORO, KOTAN, NUPRI, via KSE 13.0DME clockwise ARC to MENOK.

Cross MENOK at or above 3600FT.



STANDARD ARRIVAL CHART -INSTRUMENT

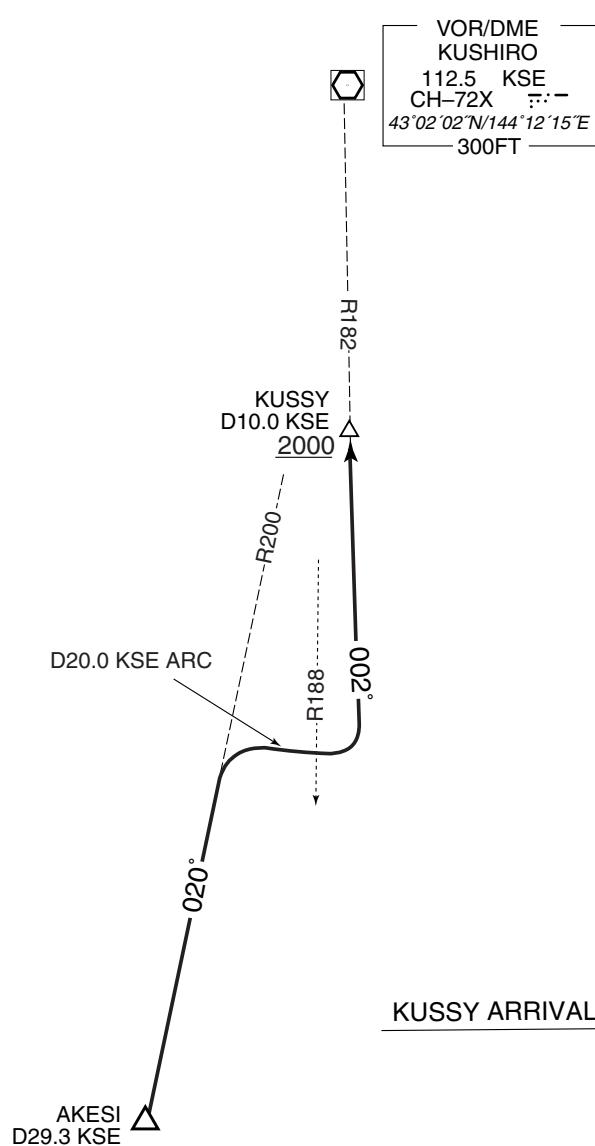
RJCK / KUSHIRO

STAR

KUSSY ARRIVAL

From over AKESI, via KSE R200 to intercept and proceed via KSE 20.0DME counterclockwise ARC, via KSE R182 to KUSSY.

Cross KUSSY at or above 2000FT.



STANDARD ARRIVAL CHART -INSTRUMENT

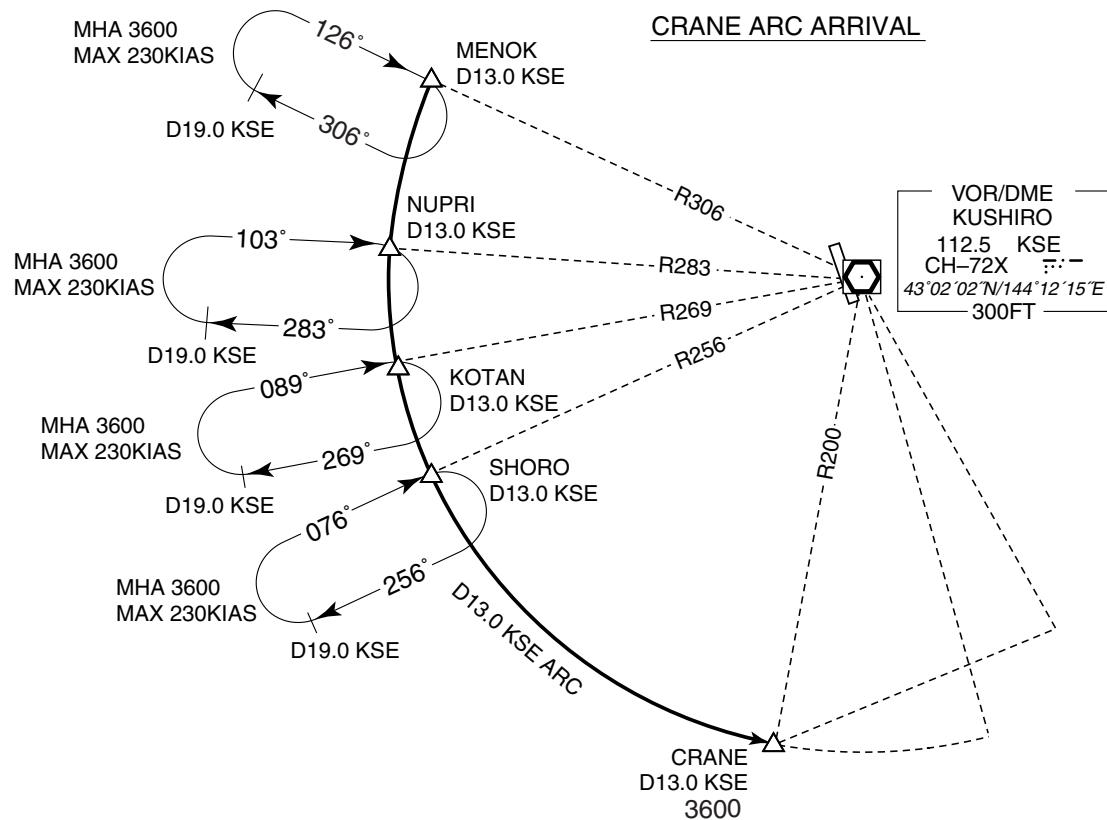
RJCK / KUSHIRO

STAR

CRANE ARC ARRIVAL

From over MENOK, NUPRI, KOTAN, SHORO, via KSE 13.0DME counterclockwise ARC to CRANE.

Cross CRANE at or above 3600FT.



STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

MENOK ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

MENOK
43°07'48.9N
143°56'22.0E
3600

359°

11.0

VOR/DME
KUSHIRO
112.5 KSE
CH-72X $\frac{1}{2} \text{--}$
43°02'02"N/144°12'15"E
300FT

CK760
42°56'58.5N
143°58'54.2E
6000

359°

24.1

MENOK ARRIVAL

AKESI
42°33'16.4N
144°04'23.6E

MENOK ARRIVAL

From AKESI, to CK760 at or above 6000FT, to MENOK at or above 3600FT.

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	AKESI	—	—	-8.9	—	—	—	—	—	Basic RNP1
002	TF	CK760	—	359 (350.4)	-8.9	24.1	—	+6000	—	—	Basic RNP1
003	TF	MENOK	—	359 (350.3)	-8.9	11.0	—	+3600	—	—	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

MARNY ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

VOR/DME
KUSHIRO
112.5 KSE
CH-72X
43°02'02"N/144°12'15"E
300FT

MARNY ARRIVAL

MARNY
425443.3N
1442145.2E
3800

CRANE
424916.8N
1440846.6E

11.0
069°

MARNY ARRIVAL

From CRANE, to MARNY at or above 3800FT.

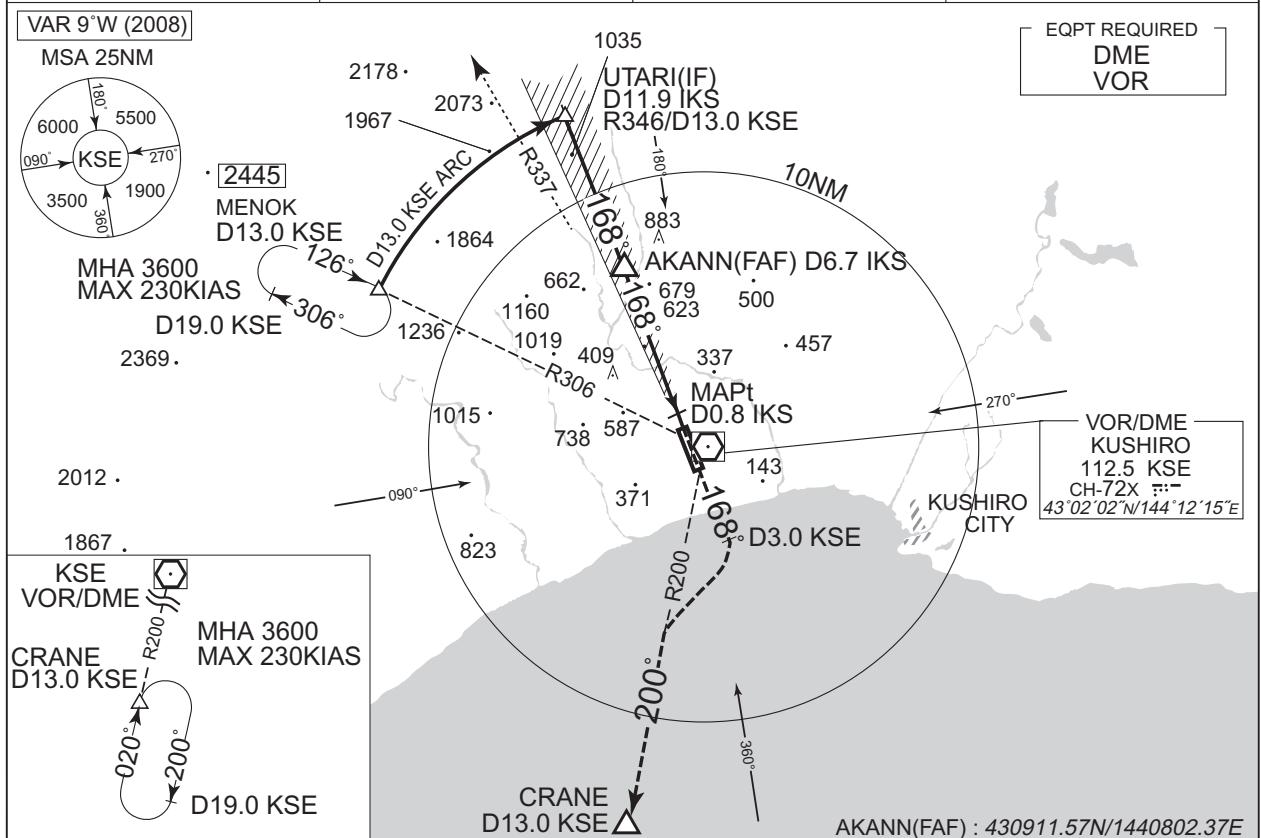
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CRANE	—	—	-8.9	—	—	—	—	—	Basic RNP1
002	TF	MARNY	—	069 (060.2)	-8.9	11.0	—	+3800	—	—	Basic RNP1

INSTRUMENT APPROACH CHART

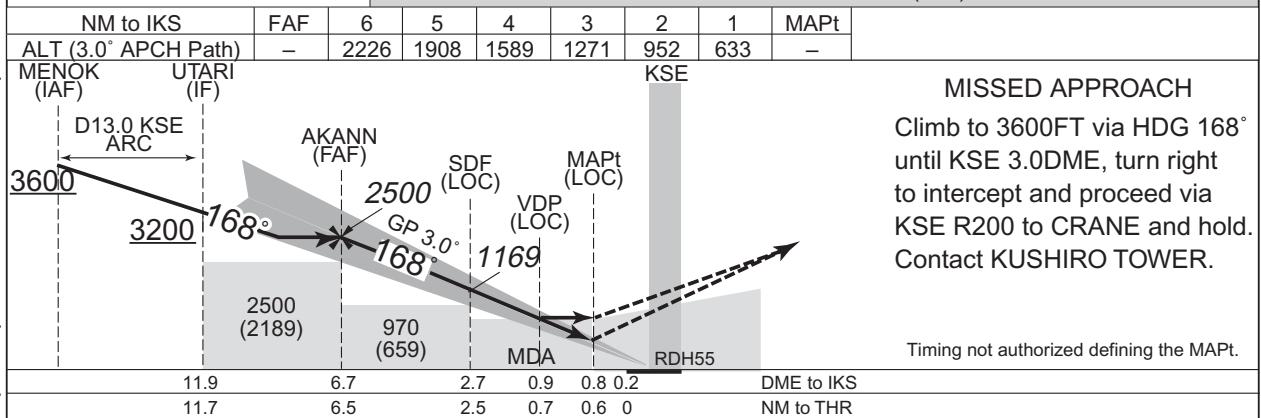
RJCK / KUSHIRO

ILS or LOC RWY17 (CAT III)

SAPPORO CONTROL 128.325 – 246.1 134.25 – 260.4	ILS-LOC 108.9 IKS ::- ILS-GP 329.3 ILS-DME CH-26X	KUSHIRO TOWER 118.05 – 126.2	NO RADAR
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CHANGE : Correction of misdescription(EQPT REQUIRED)



MINIMA THR elev. 323 AD elev. 311

CAT	CAT III B	CAT III A	CAT II			CAT I		LOC		CIRCLING	
	RVR	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	100	175	Not applicable.	523 (200)	550	590 (279)	800	730 (419)	800	1600	2400
B											
C											
D								1200	870 (559)	3200	

Circling to EAST side of RWY only

Values of RA may increase or decrease rapidly affected by terrain between IKS 0.4DME and 0.8DME.

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR RWY17

AIRPORTS & CONTROL

- SAPPORO CONTROL: 128.325 – 246.1, 134.25 – 260.4
- KUSHIRO VOR/DME: 112.5 KSE, CH-72X, 43°02'02"N/144°12'15"E
- KUSHIRO TOWER: 118.05 – 126.2
- NO RADAR

VAR 9°W (2008)
MSA 25NM

EQPT REQUIRED DME

Approach Routes and Radar Stations:

- GENYA(IF) D13.0 KSE:** Located at 2178. 161° arc.
- MENOK D13.0 KSE:** Located at 2073. 161° arc.
- MHA 3600 MAX 230KIAS:** Located at 1967. 161° arc.
- D19.0 KSE:** Located at 2445. 161° arc.
- ICORO(FAF) D8.0 KSE:** Located at 1864. 161° arc.
- MAPt D1.3 KSE:** Located at 2012. 161° arc.
- D3.0 KSE:** Located at 1867. 161° arc.
- CRANE D13.0 KSE:** Located at 2012. 161° arc.
- KSE VOR/DME:** Located at 2012. 161° arc.
- CRANE D13.0 KSE:** Located at 2012. 161° arc.
- MHA 3600 MAX 230KIAS:** Located at 2012. 161° arc.

Missed Approach Procedure (MAPt):

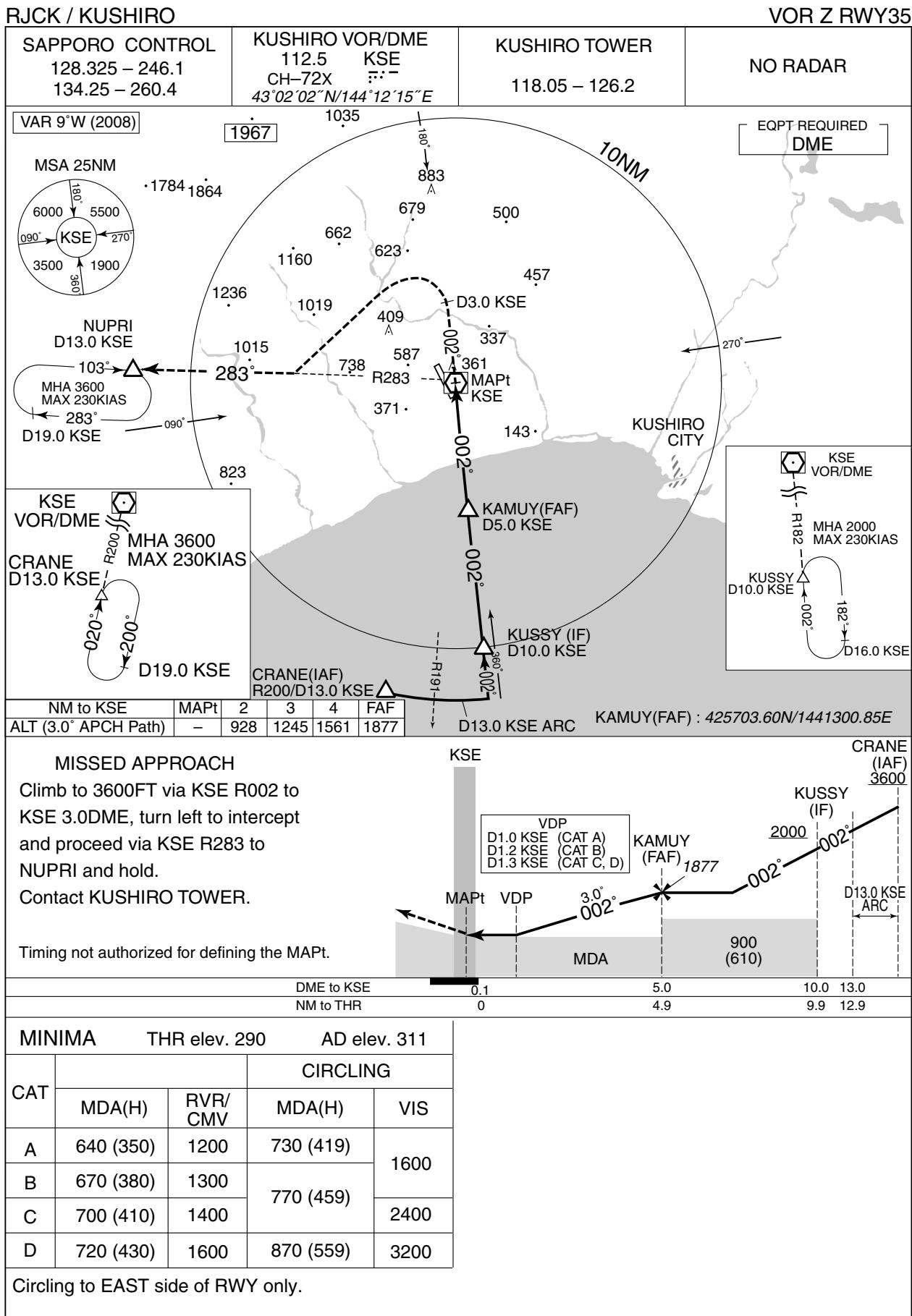
ICORO(FAF) : 430907.97N/1440713.77E

MINIMA THR elev. 323 AD elev. 311

CAT	CIRCLING			
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	1000		1600	
B	780 (469)	1200	780 (469)	2400
C				
D	1600	870 (559)	3200	

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR Y RWY35

SAPPORO CONTROL
128.325 – 246.1
134.25 – 260.4

KUSHIRO VOR/DME
112.5 KSE
CH-72X
43°02'02"N/144°12'15"E

KUSHIRO TOWER
118.05 – 126.2

NO RADAR

VAR 9°W (2008)

MSA 25NM

1967

EQPT REQUIRED DME

NUPRI
D13.0 KSE
MHA 3600 MAX 230KIAS
D19.0 KSE

D3.0 KSE
MHA 3500 MAX 230KIAS

KAMUY(FAF)
D5.0 KSE

KUSHIRO CITY

Turn initiation within D11.0 KSE MAX Turning speed 220KIAS

KAMUY(FAF) : 425703.60N/1441300.85E

NM to KSE	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	-	928	1245	1561	1877

MISSED APPROACH
Climb to 3600FT via KSE R002 to KSE 3.0DME, turn left to intercept and proceed via KSE R283 to NUPRI and hold.
Contact KUSHIRO TOWER.

Timing not authorized for defining the MAPt.

KSE

VDP
D1.0 KSE (CAT A)
D1.2 KSE (CAT B)
D1.3 KSE (CAT C, D)

KAMUY (FAF) 1877

Turn initiation within D11.0 KSE

MDA
900 (610)

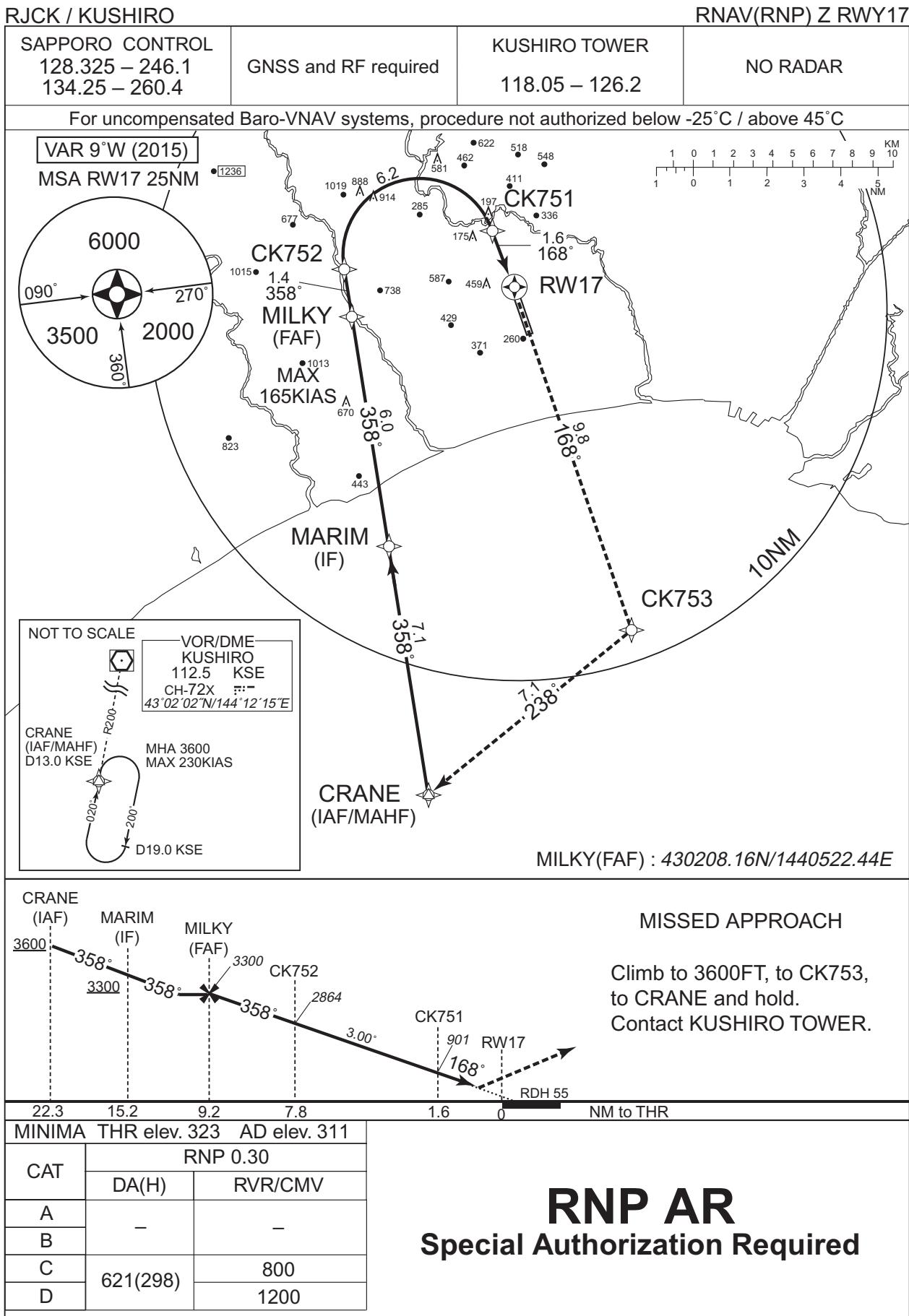
DME to KSE
0.1 5.0

NM to THR
0 4.9

MINIMA		THR elev. 290	AD elev. 311	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	640 (350)	1200	730 (419)	1600
B	670 (380)	1300	770 (459)	
C	700 (410)	1400		2400
D	720 (430)	1600	870 (559)	3200

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Z RWY17

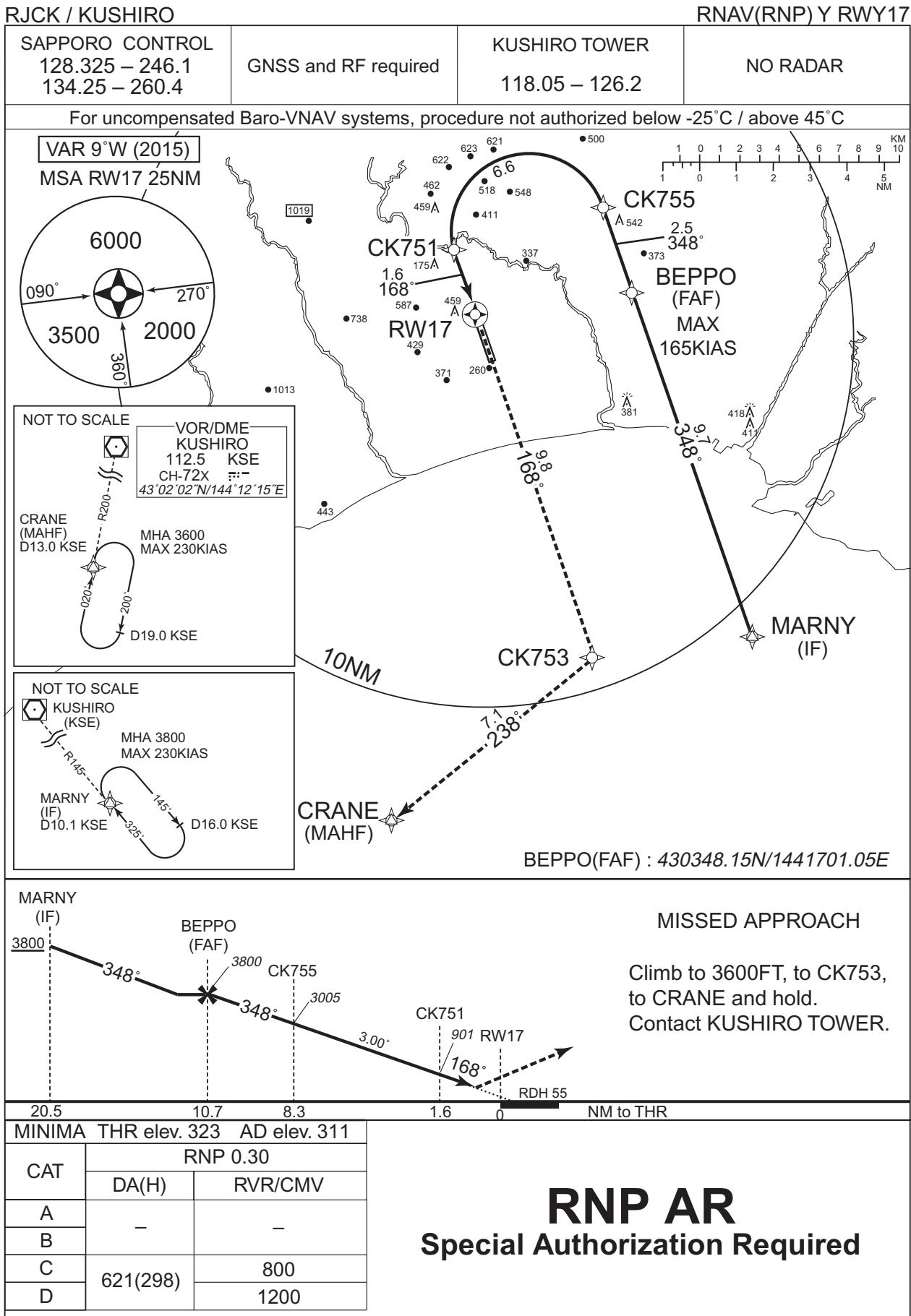
RNAV(RNP) Z RWY17Coding Table

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	CRANE	—	—	-8.9	—	—	+3600	—	—	—
002	TF	MARIM	—	358 (349.1)	-8.9	7.1	—	+3300	—	—	1.0
003	TF	MILKY	—	358 (349.0)	-8.9	6.0	—	3300	-165	—	1.0
004	TF	CK752	—	358 (349.0)	-8.9	1.4	—	2864	—	-3.00	0.3
005	RF Center: CKRF1 r=2.08NM	CK751	—	—	-8.9	6.2	R	901	—	-3.00	0.3
006	TF	RW17	Y	168 (159.0)	-8.9	1.6	—	378	—	-3.00/55	0.3
007	TF	CK753	—	168 (159.0)	-8.9	9.8	—	—	—	—	1.0
008	TF	CRANE	—	238 (229.0)	-8.9	7.1	—	3600	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CRANE	424916.84N / 1440846.59E	CKRF1	430352.65N / 1440747.87E
MARIM	425614.81N / 1440656.16E		
MILKY	430208.16N / 1440522.44E		
CK752	430328.83N / 1440501.00E		
CK751	430437.47N / 1441026.54E		
RW17	430305.30N / 1441114.92E		
CK753	425355.48N / 1441602.58E		

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Y RWY17

RNAV(RNP) Y RWY17Coding 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	MARNY	—	—	-8.9	—	—	+3800	—	—	—
002	TF	BEPOPO	—	348 (339.1)	-8.9	9.7	—	3800	-165	—	1.0
003	TF	CK755	—	348 (339.1)	-8.9	2.5	—	3005	—	-3.00	0.3
004	RF Center: CKRF2 r=2.10NM	CK751	—	—	-8.9	6.6	L	901	—	-3.00	0.3
005	TF	RW17	Y	168 (159.0)	-8.9	1.6	—	378	—	-3.00/55	0.3
006	TF	CK753	—	168 (159.0)	-8.9	9.8	—	—	—	—	1.0
007	TF	CRANE	—	238 (229.0)	-8.9	7.1	—	3600	—	—	1.0

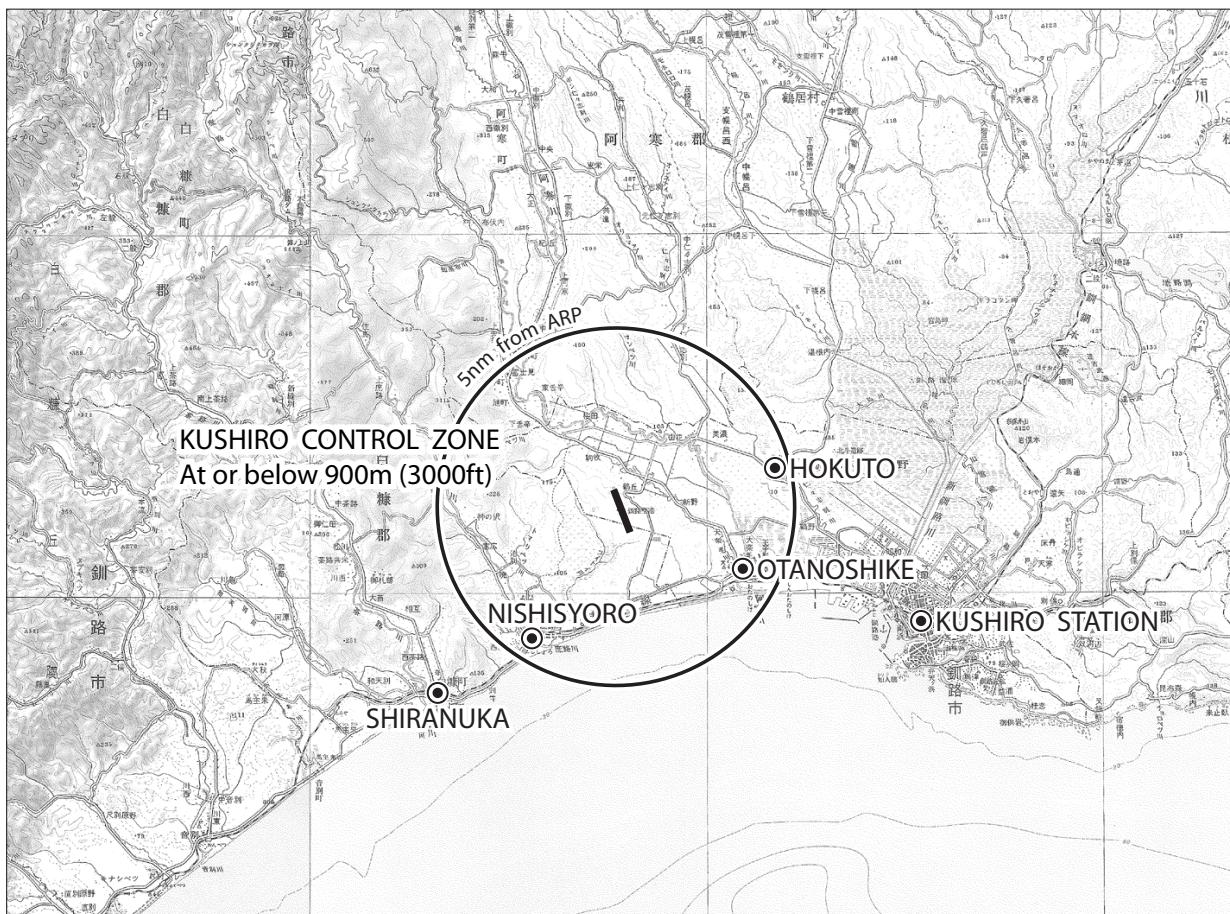
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MARNY	425443.27N / 1442145.22E	CKRF2	430522.76N / 1441307.17E
BEPOPO	430348.15N / 1441701.05E		
CK755	430607.99N / 1441547.87E		
CK751	430437.47N / 1441026.54E		
RW17	430305.30N / 1441114.92E		
CK753	425355.48N / 1441602.58E		
CRANE	424916.84N / 1440846.59E		

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RJCK / KUSHIRO

Visual REP

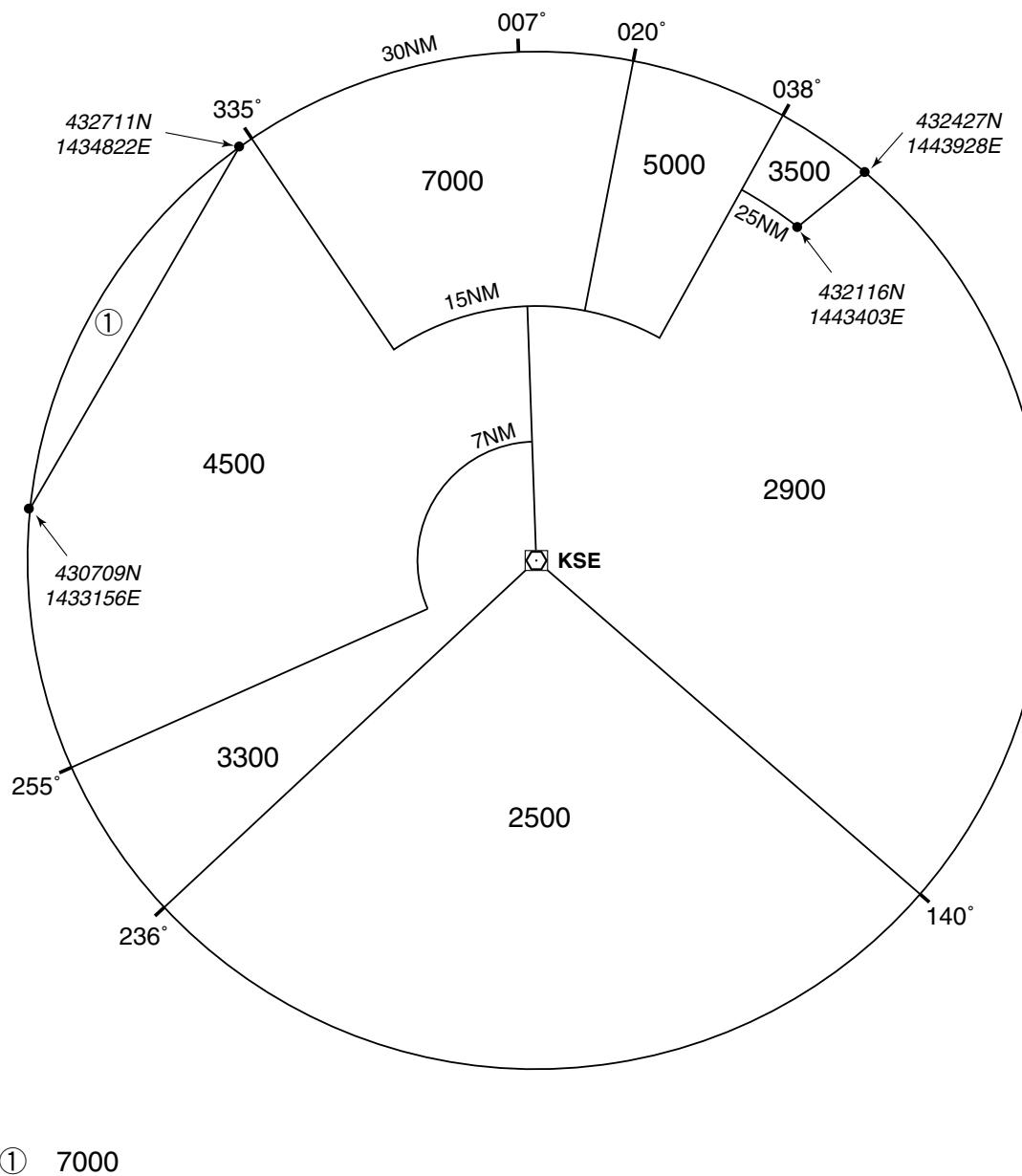


Call sign	BRG / DIST from ARP	Remarks
白糠 Shiranuka	235°/ 7.3NM	JR駅 Station
西庶路 Nishisyoro	224°/ 4.8NM	JR駅 Station
北斗 Hokuto	089°/ 4.5NM	T字路交差点 Intersection
大楽毛 Otanoshike	121°/ 4.3NM	製紙工場煙突群 Chimneys
釧路ステーション Kushiro Station	119°/ 8.9NM	JR駅 Station

RJCK / KUSHIRO

Minimum Vectoring Altitude CHART

VAR 9°W (2007)



CENTER : 430202N/1441215E (KSE VOR/DME)