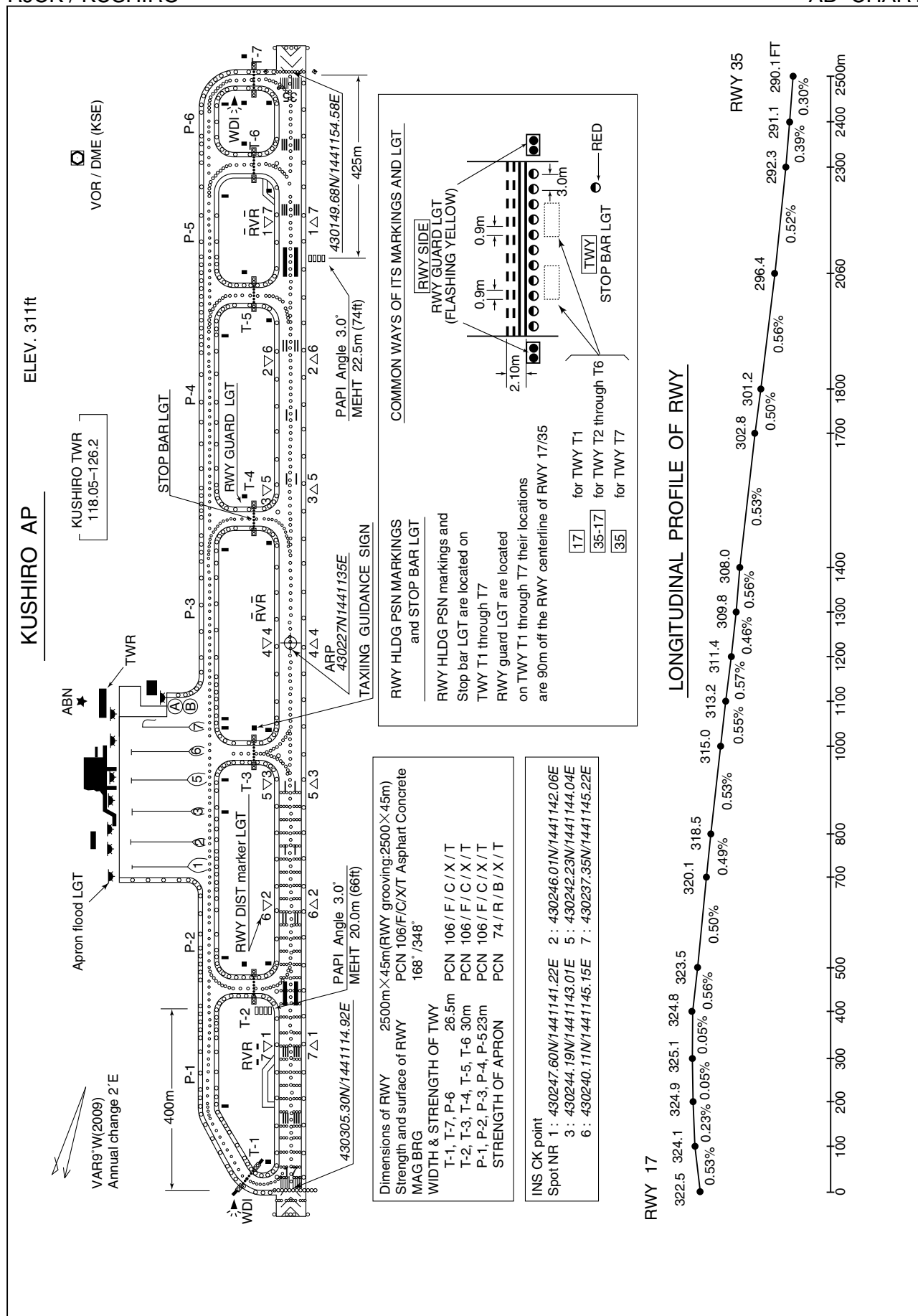


RJCK / KUSHIRO

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.

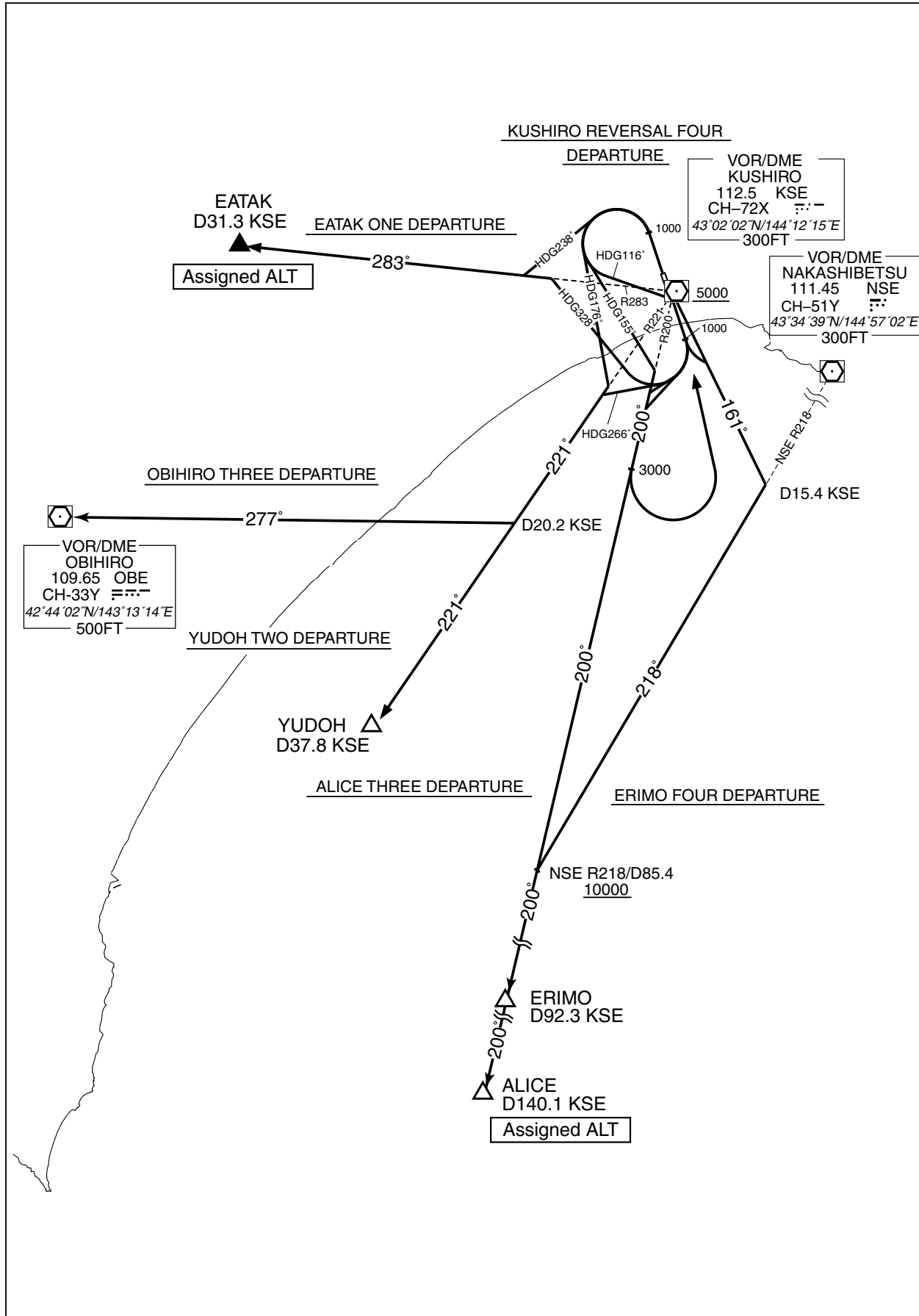
Note : No turn before DER.

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

RJCK / KUSHIROSID

STANDARD DEPARTURE CHART -INSTRUMENT

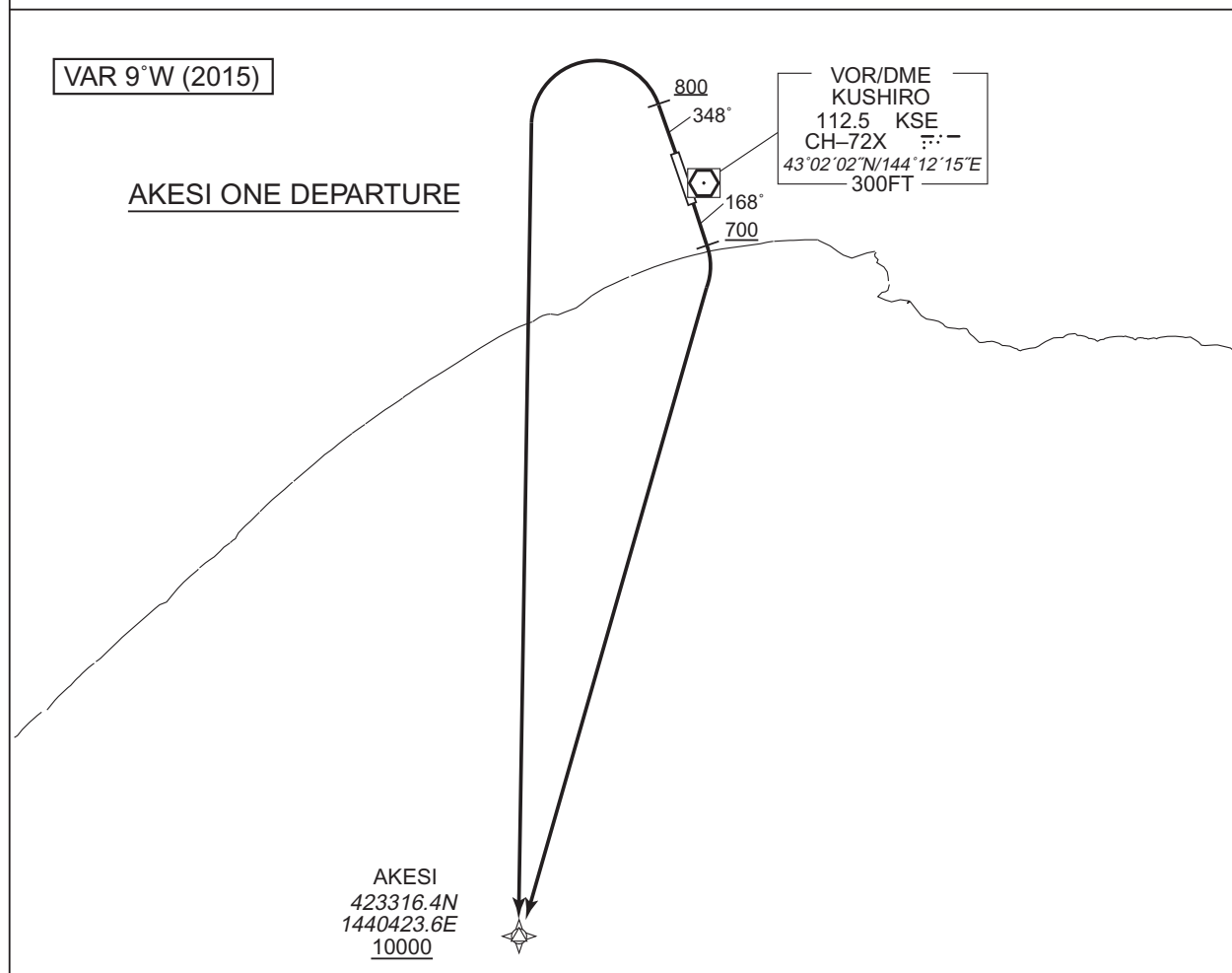
RJCK / KUSHIRO

RNAV SID

AKESI ONE DEPARTURE

Basic RNP1

Note GNSS required.



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

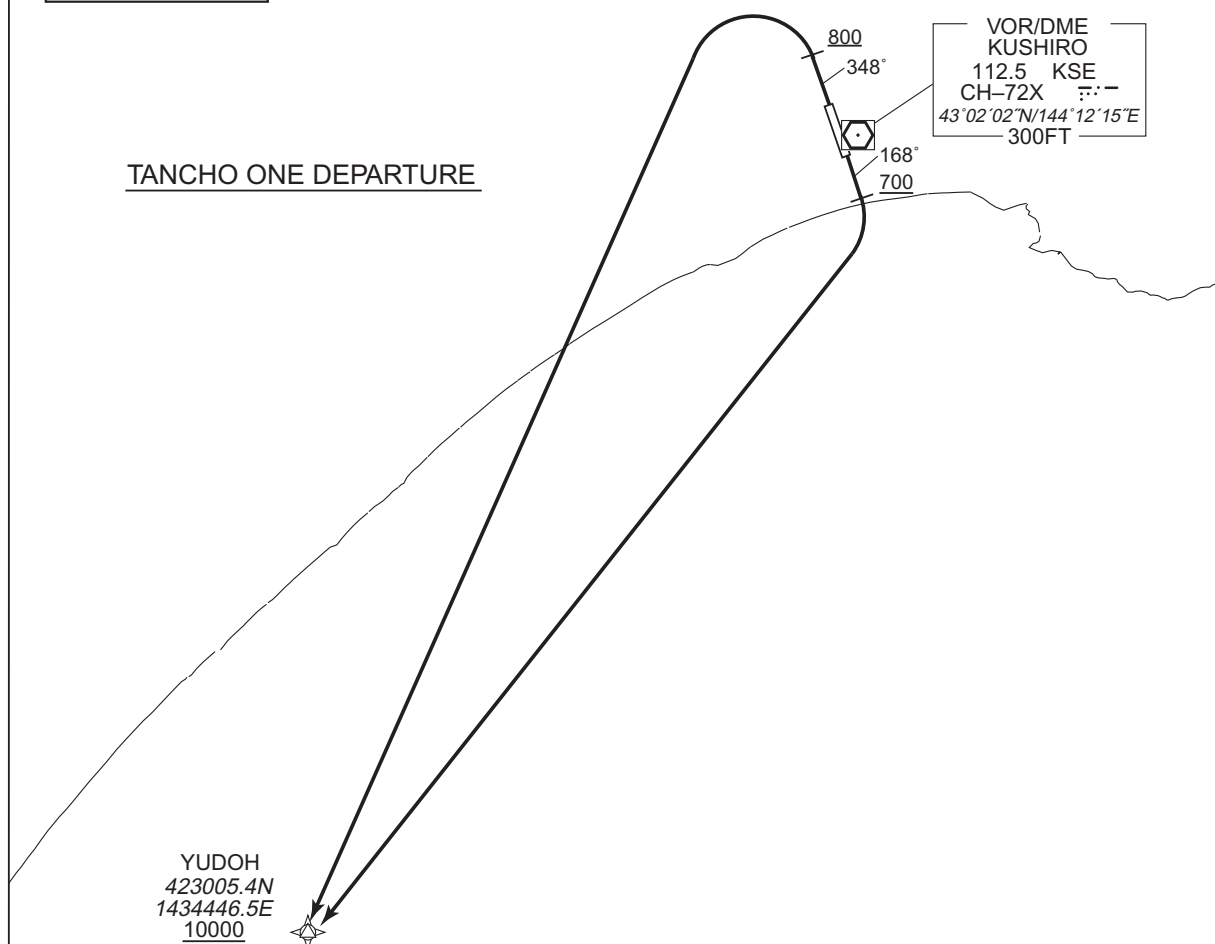
TANCHO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

TANCHO ONE DEPARTURE



TANCHO 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 DEPARTURE



ASHORO 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

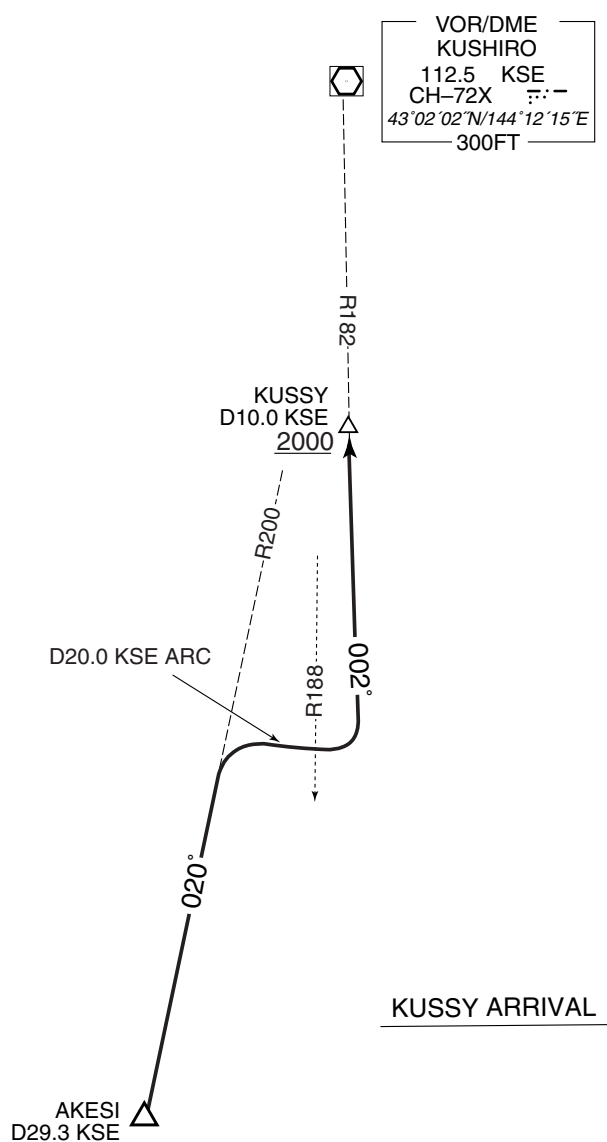
RJCK / KUSHIRO

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.



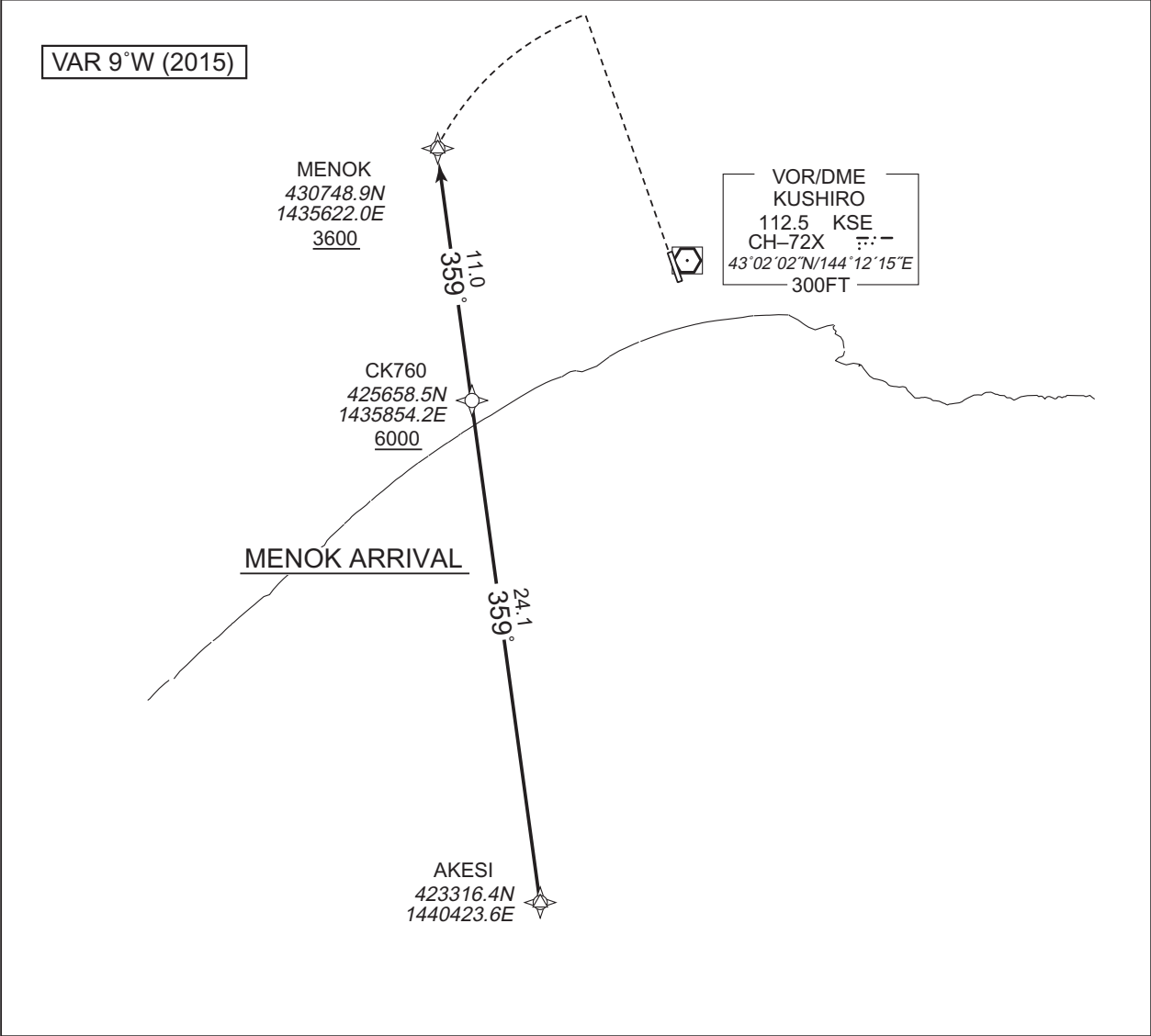
STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

MENOK ARRIVAL	Basic RNP1
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Note GNSS required.



<u>MENOK ARRIVAL</u> 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)



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

CHANGE: MINIMA(CAT IIIA, IIIB → CAT III).

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

VAR 9°W (2008)
MSA 25NM

EQPT REQUIRED
DME
VOR

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

UTARI(IF)
D11.9 IKS
R346/D13.0 KSE

AKANN(FAF) D6.7 IKS

MAPt
D0.8 IKS

D3.0 KSE

CRANE
D13.0 KSE

MHA 3600
MAX 230KIAS
D19.0 KSE

MENOK
D13.0 KSE

KSE
VOR/DME

CRANE
D13.0 KSE

D19.0 KSE

AKANN(FAF) : 430911.57N/1440802.37E

NM to IKS	FAF	6	5	4	3	2	1	MAPt
ALT (3.0° APCH Path)	-	2226	1908	1589	1271	952	633	-

MISSED APPROACH
Climb to 3600FT via HDG 168° until KSE 3.0DME, turn right to intercept and proceed via KSE R200 to CRANE and hold.
Contact KUSHIRO TOWER.

Timing not authorized defining the MAPt.

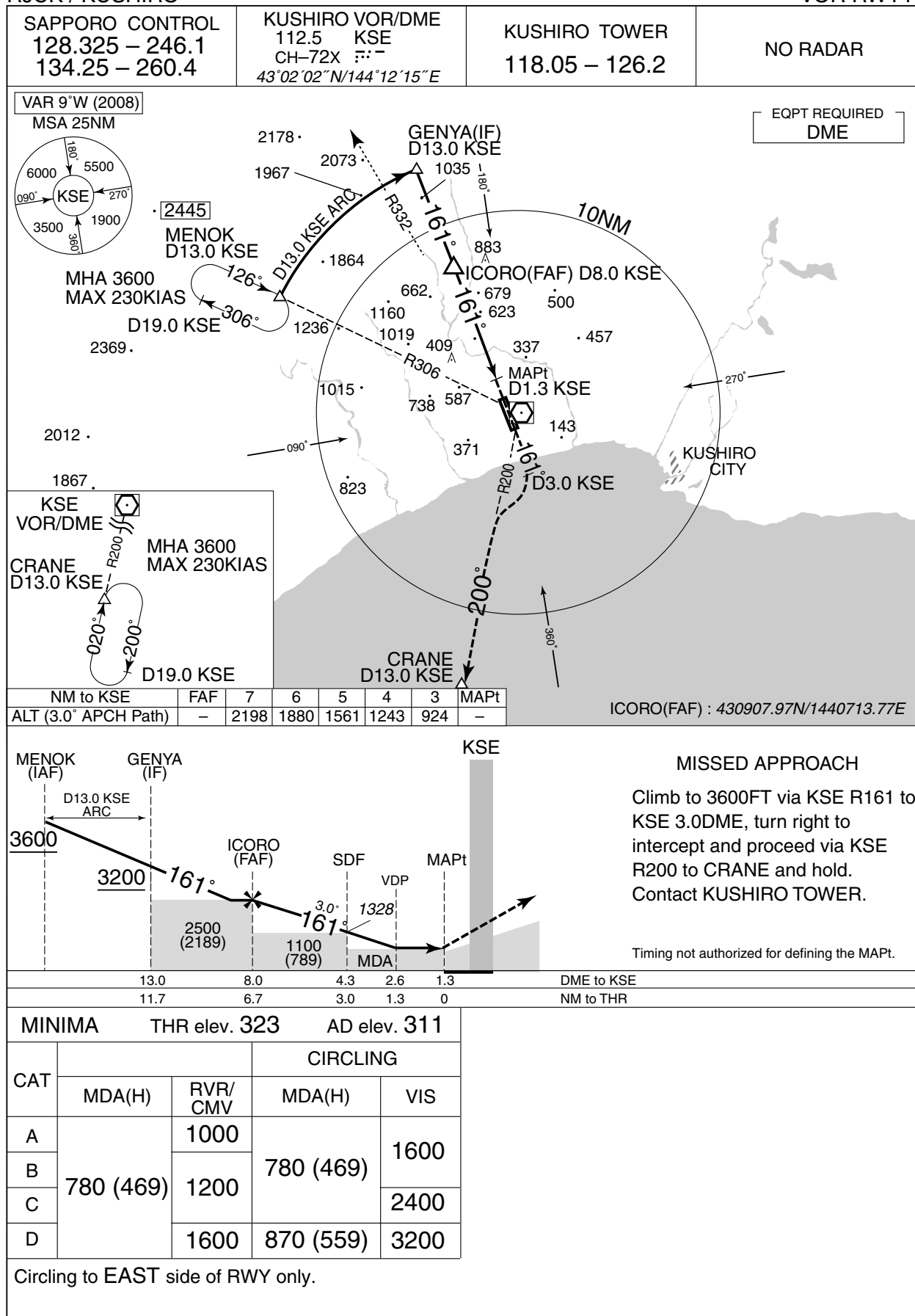
MINIMA		THR elev. 323			AD elev. 311					
CAT	CAT III	CAT II		CAT I		LOC		CIRCLING		
	RVR	DA(H)	RA	RVR	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H) VIS	
A	100	Not applicable.			523 (200)	550	590 (279)	800	730 (419)	1600
B									770 (459)	
C										
D									870 (559)	3200

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

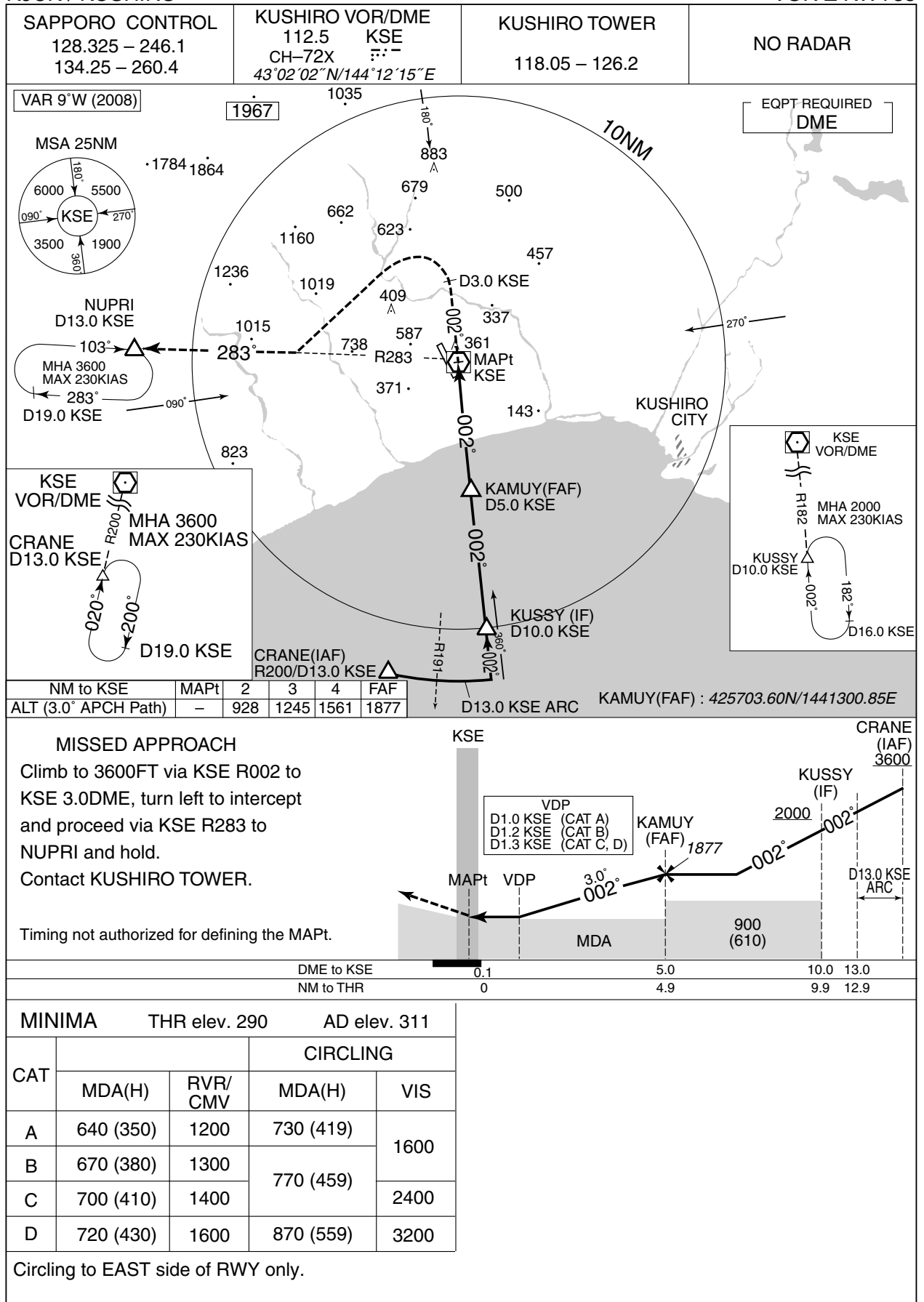
VOR RWY17



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR Z RWY35



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR Y RWY35



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Z RWY17



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

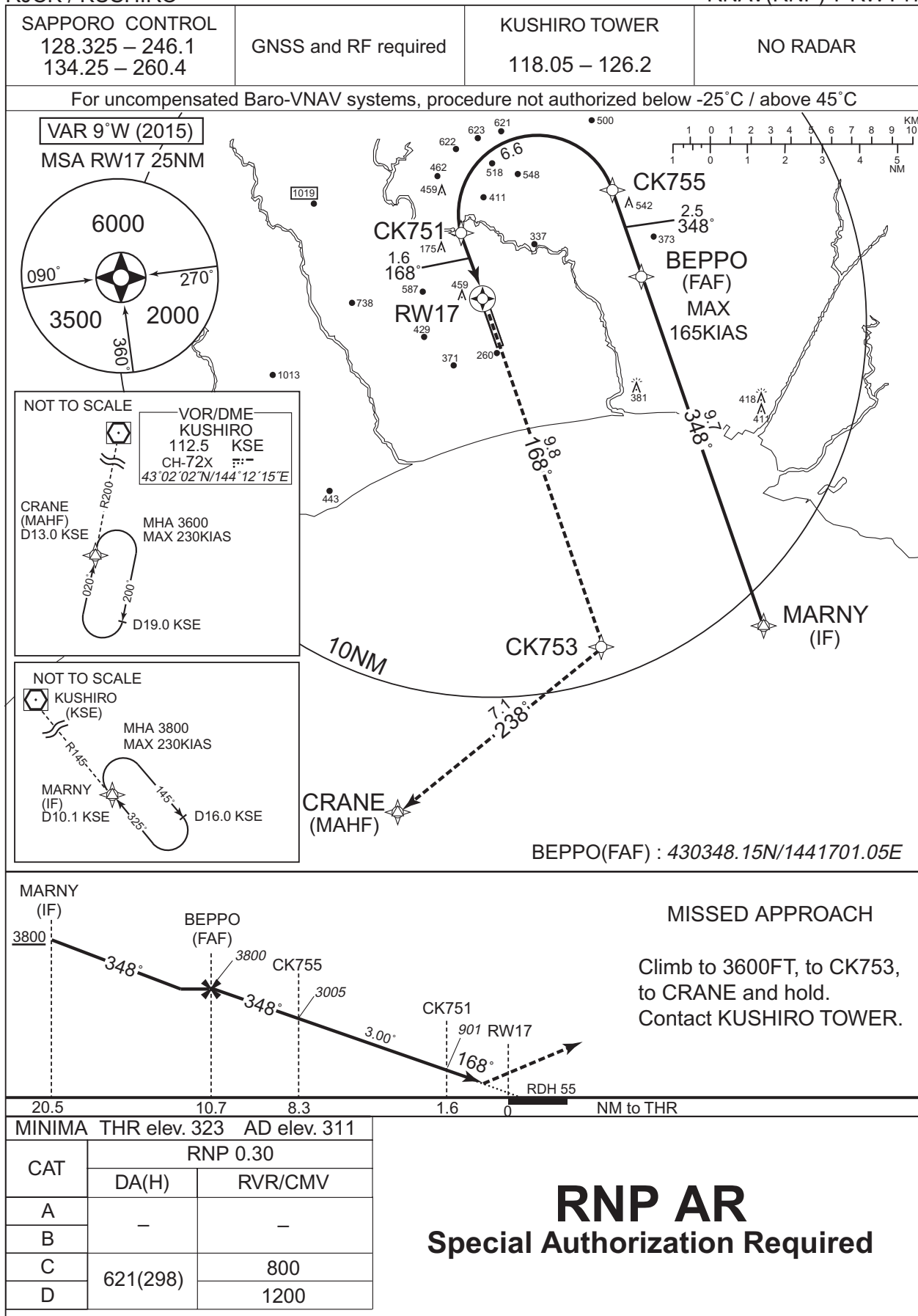
Waypoint Coordinates

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

RJCK / KUSHIRO

RNAV(RNP) Y RWY17



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	BEPP0	—	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

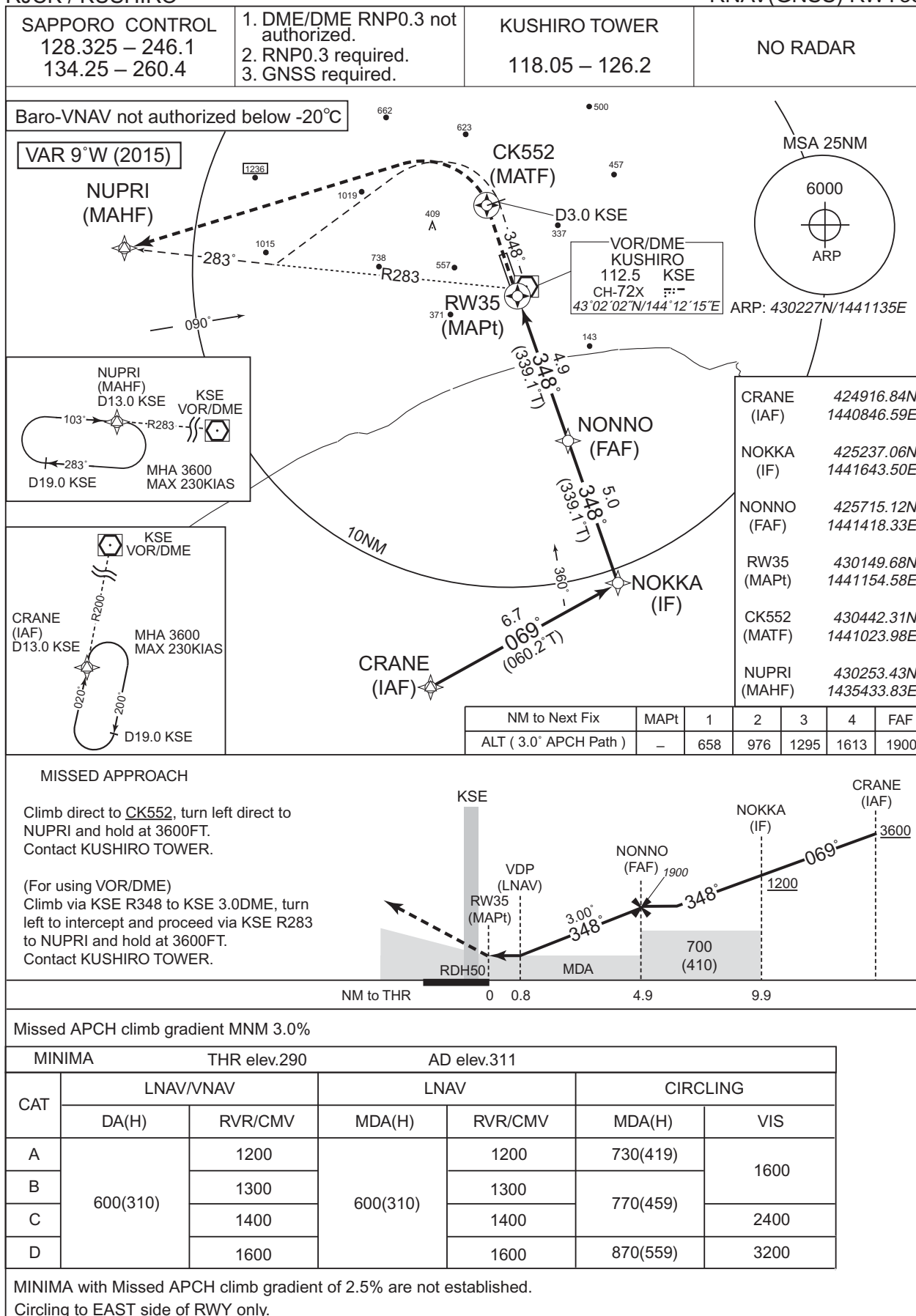
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MARNY	425443.27N / 1442145.22E	CKRF2	430522.76N / 1441307.17E
BEPP0	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		

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

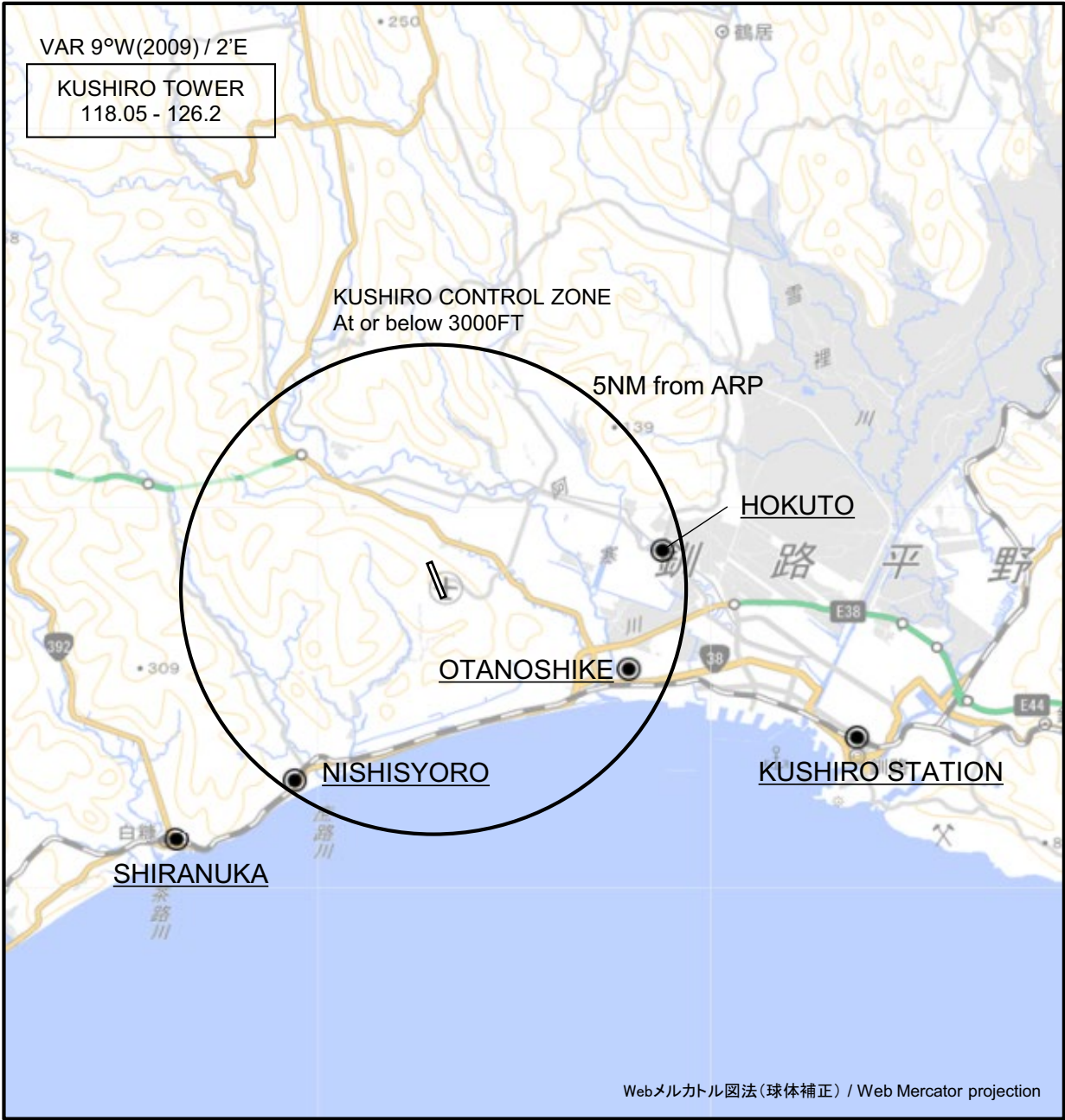
RNAV(GNSS) RWY35



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RJCK / KUSHIRO

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).

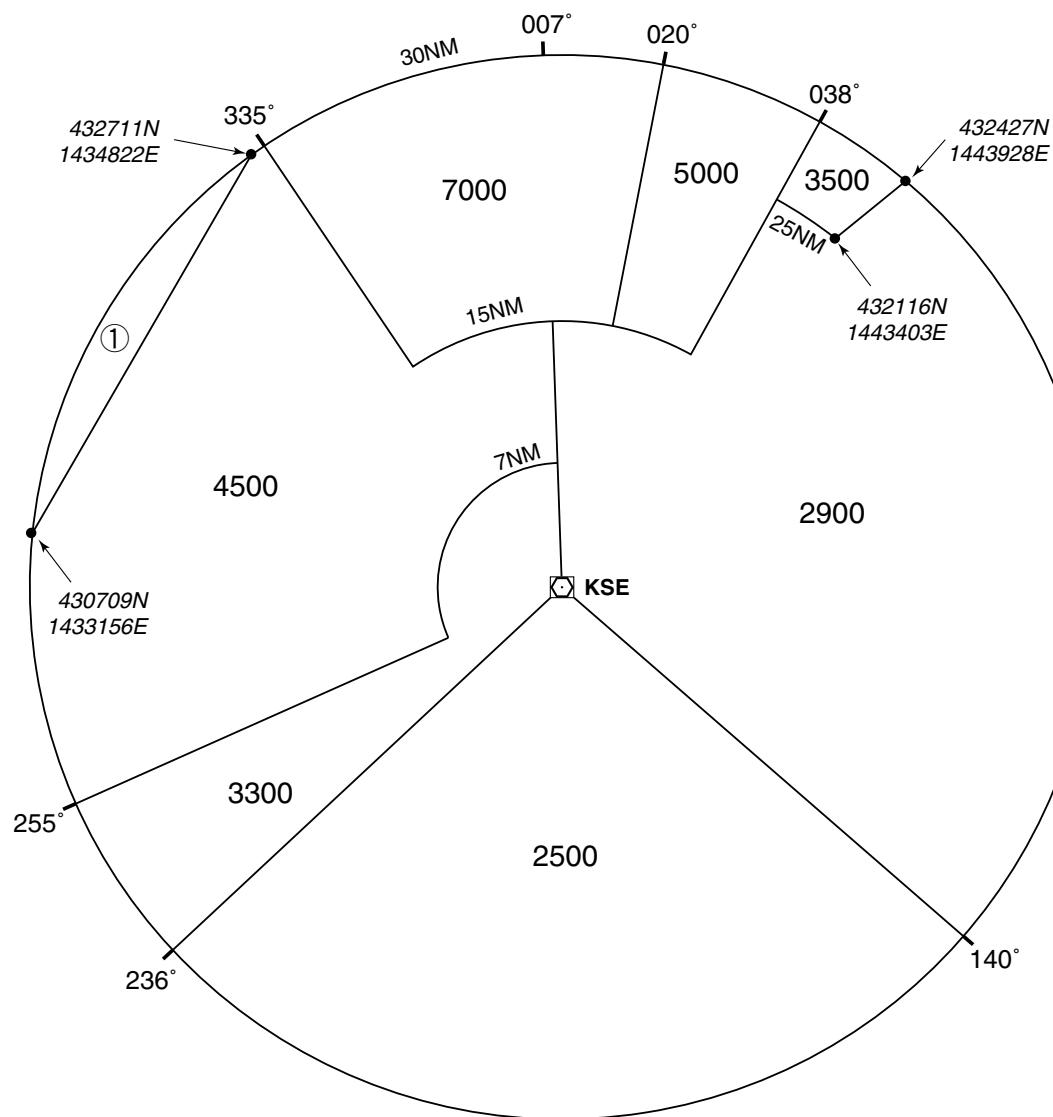
CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
北斗 Hokuto	080°T / 4.6NM	T字路交差点 Intersection
大楽毛 Otanoshike	113°T / 4.2NM	製紙工場煙突群 Chimneys
釧路ステーション Kushiro Station	110°T / 8.8NM	JR駅 Station
西庶路 Nishisyoro	215°T / 4.7NM	JR駅 Station
白糖 Shiranuka	225°T / 7.2NM	JR駅 Station

RJCK / KUSHIRO

Minimum Vectoring Altitude CHART

VAR 9°W (2007)



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