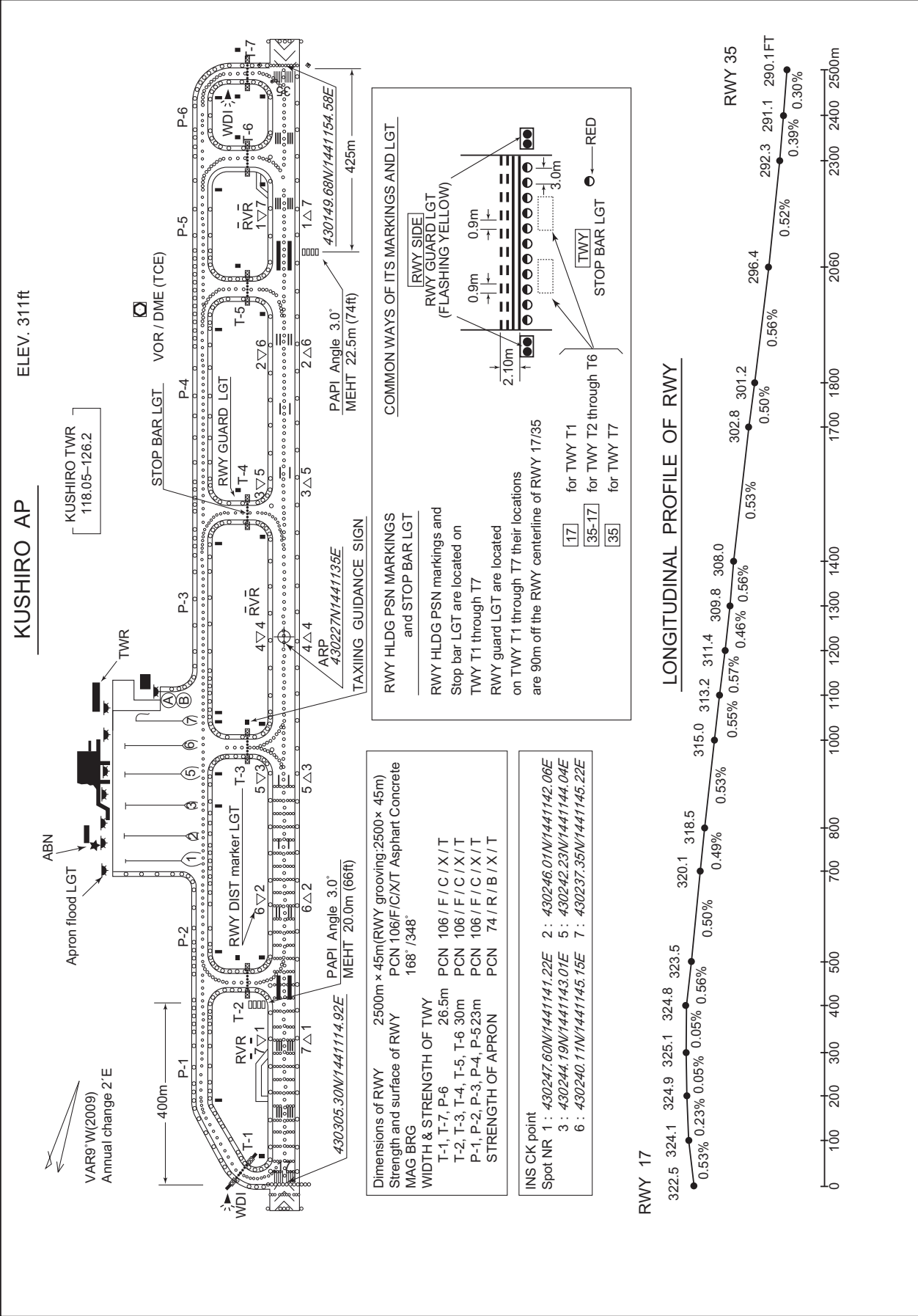


RJCK / KUSHIRO

AD CHART

CHANGE : ABN relocated.



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RJCK/KUSHIRO

PRECISION APPROACH TERRAIN CHART – ICAO



STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

SID

KUSHIRO REVERSAL FIVE DEPARTURE

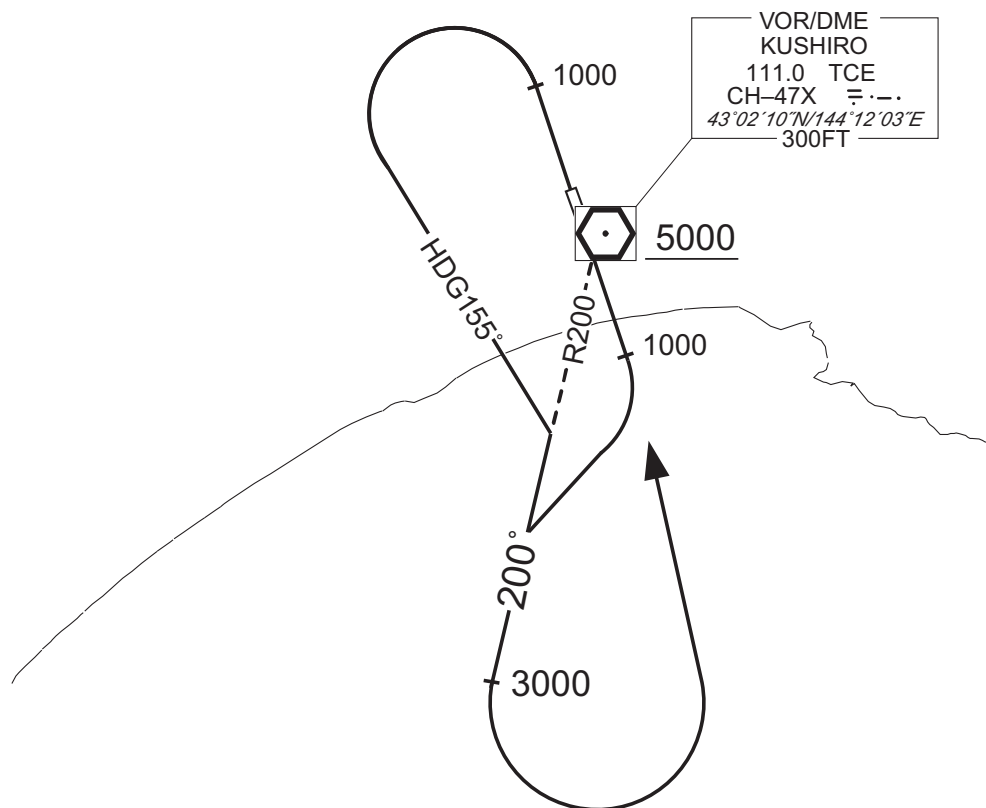
RWY17 : Climb RWY HDG to 1000FT, turn right...

RWY35 : Climb RWY HDG to 1000FT, turn left HDG155°...

...to intercept and proceed via TCE R200 to 3000FT, turn left, direct to
TCE VOR/DME.

Cross TCE VOR/DME at or above 5000FT.

Note : No turn before DER.



CHANGE : PROC abolished(ALICE THREE DEPARTURE, ERIMO FOUR DEPARTURE, OBIHIRO THREE DEPARTURE, YUDOH TWO DEPARTURE, EATAK ONE DEPARTURE).
PROC renamed. KUSHIRO VOR/DME relocated(KSE→TCE).

STANDARD DEPARTURE CHART -INSTRUMENT

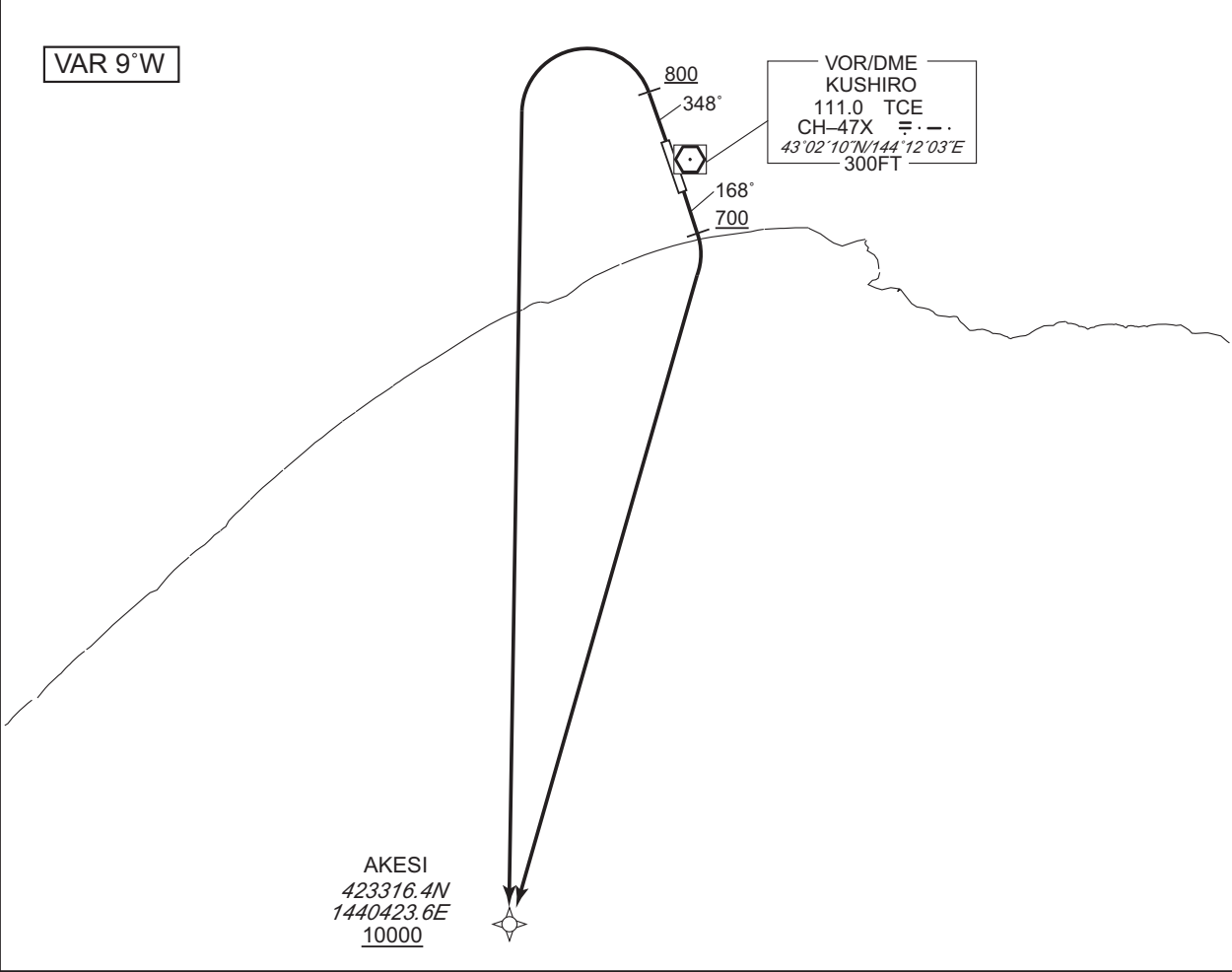
RJCK / KUSHIRO

AKESI ONE DEPARTURE

RNAV SID

Basic RNP1

Note GNSS required.



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

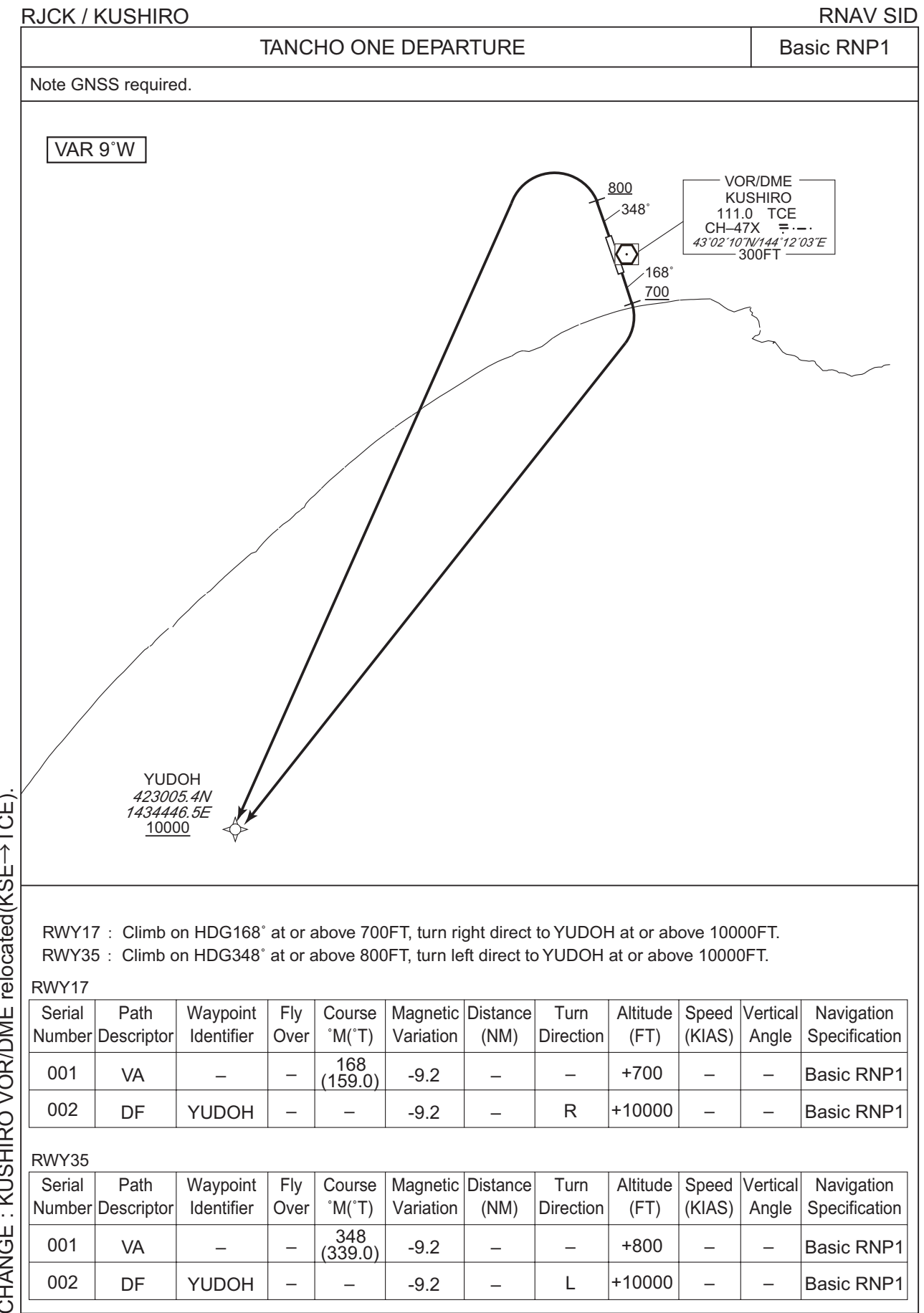
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	168 (159.0)	-9.2	—	—	+700	—	—	Basic RNP1
002	DF	AKESI	—	—	-9.2	—	R	+10000	—	—	Basic RNP1

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)	-9.2	—	—	+800	—	—	Basic RNP1
002	DF	AKESI	—	—	-9.2	—	L	+10000	—	—	Basic RNP1

CHANGE : KUSHIRO VOR/DME relocated(KSE→TCE).

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

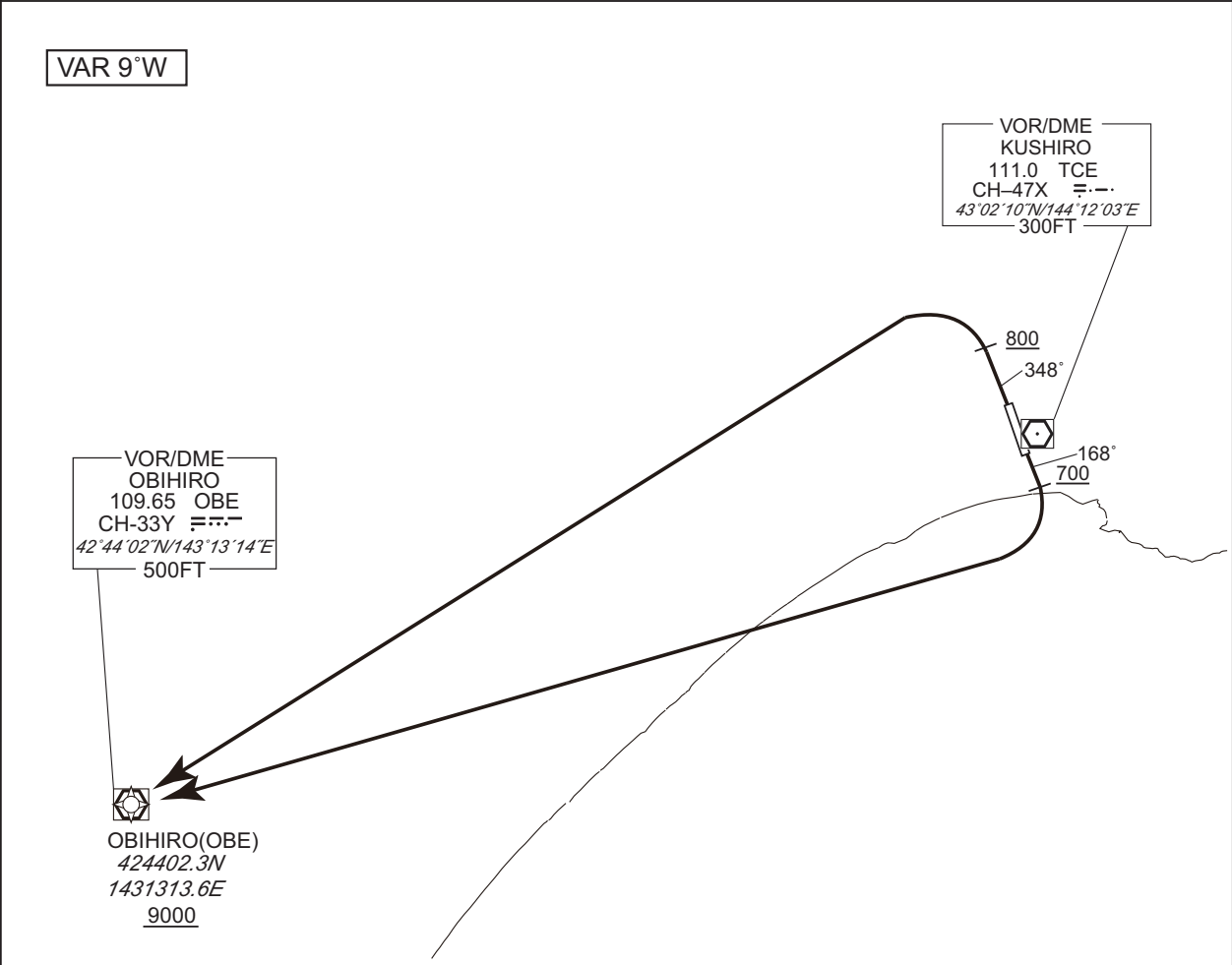
RJCK / KUSHIRO

RNAV SID

HIDAKA ONE DEPARTURE

Basic RNP1

Note GNSS required.



RWY17 : Climb on HDG168° at or above 700FT, turn right direct to OBE at or above 9000FT.
RWY35 : Climb on HDG348° at or above 800FT, turn left direct to OBE at or above 9000FT.

RWY17

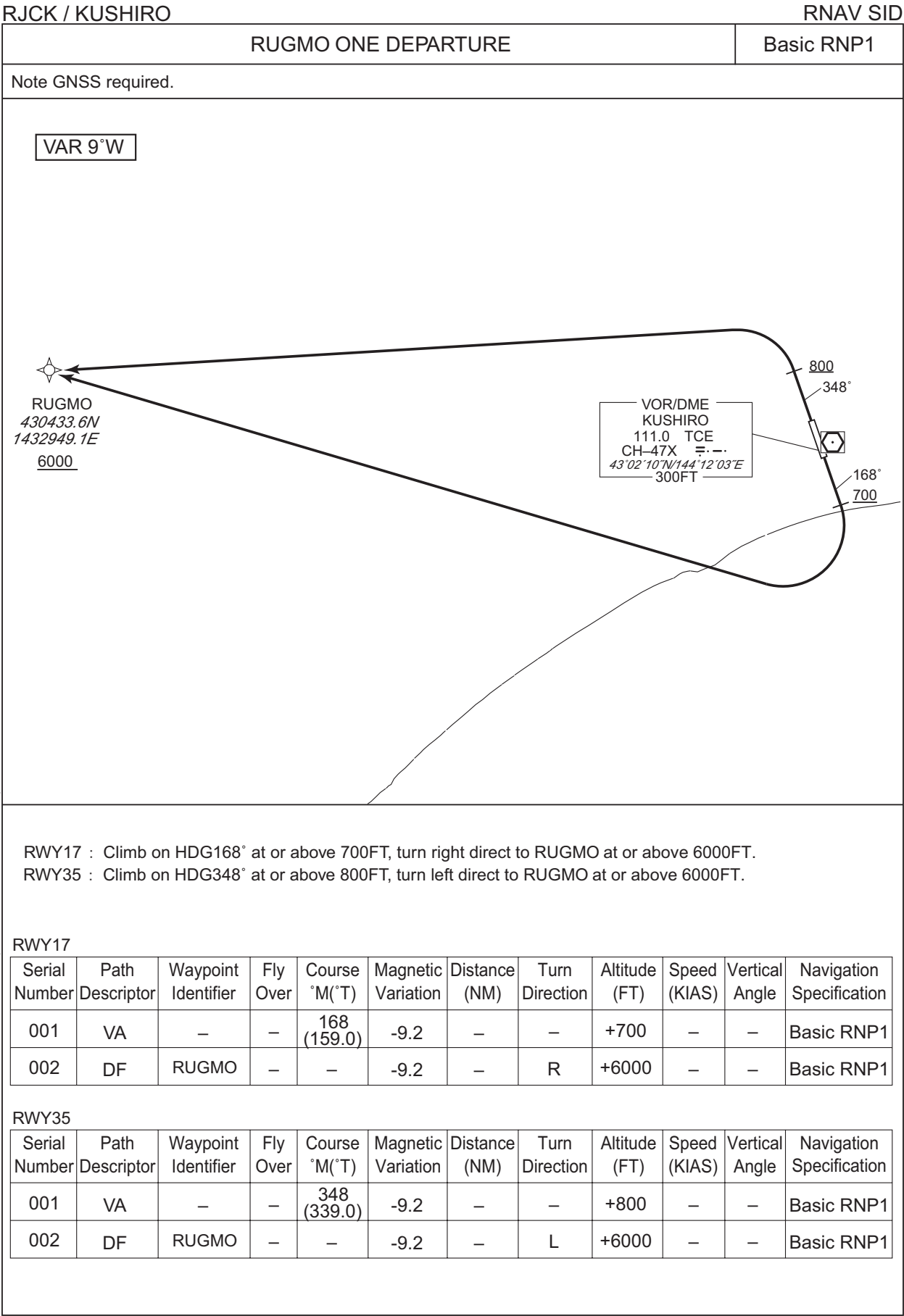
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	168 (159.0)	-9.2	—	—	+700	—	—	Basic RNP1
002	DF	OBE	—	—	-9.2	—	R	+9000	—	—	Basic RNP1

RWY35

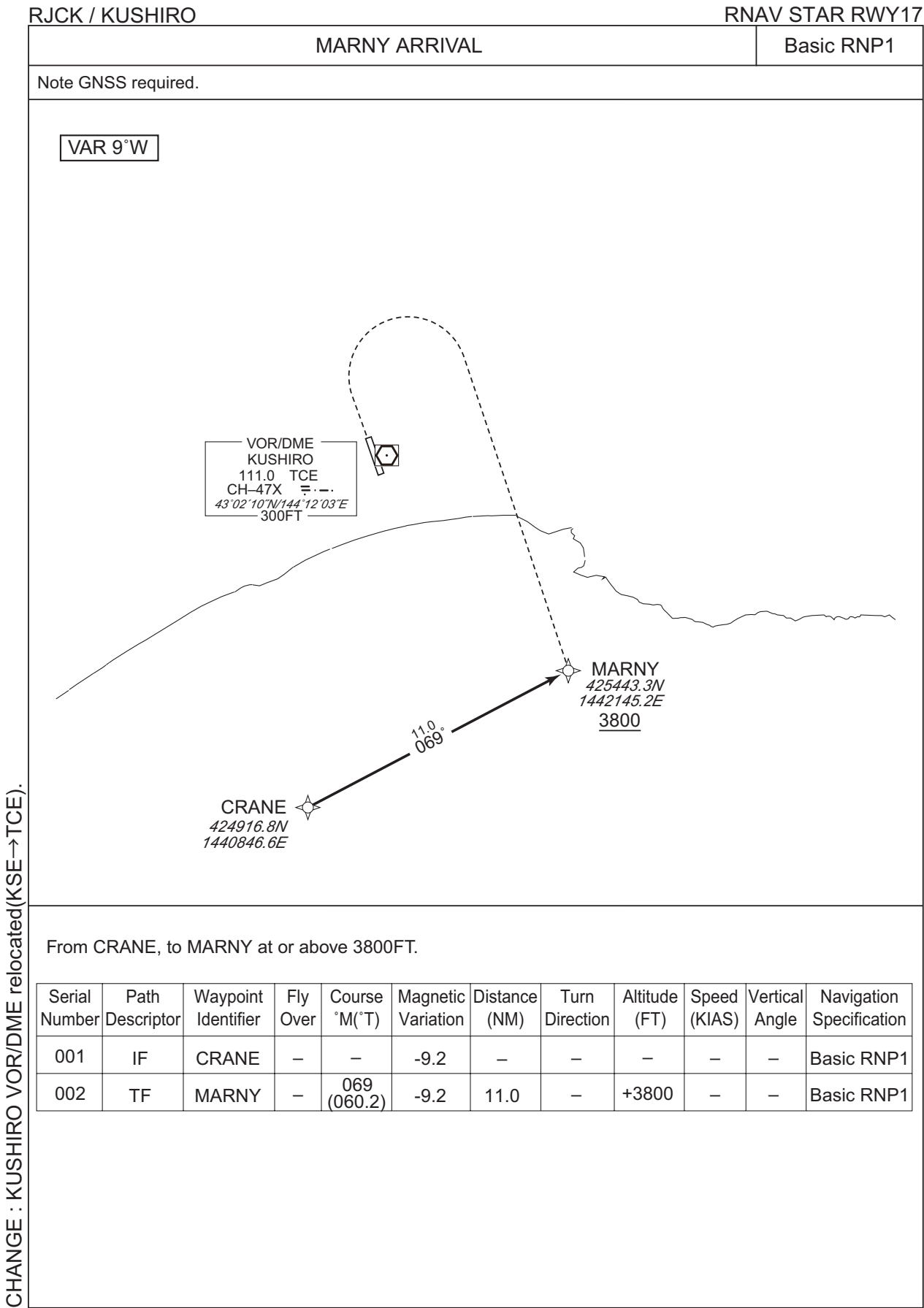
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	348 (339.0)	-9.2	—	—	+800	—	—	Basic RNP1
002	DF	OBE	—	—	-9.2	—	L	+9000	—	—	Basic RNP1

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD ARRIVAL CHART -INSTRUMENT

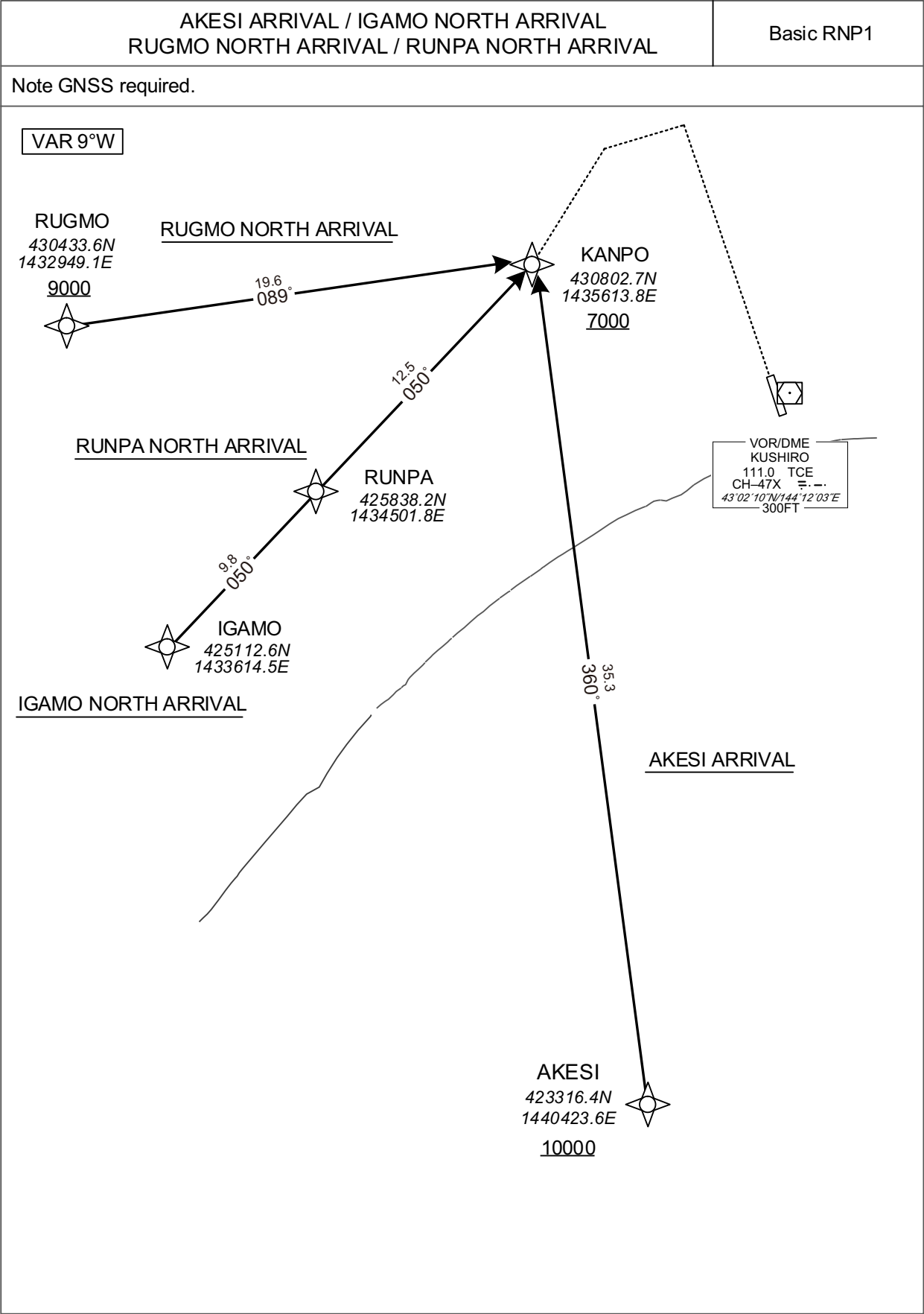


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STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17



CHANGE : New PROC.

STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

AKESI ARRIVAL

From AKESI at or above 10000FT, to KANPO at or above 7000FT.

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	—	—	-9.2	—	—	+10000	—	—	Basic RNP1
002	TF	KANPO	—	360 (350.3)	-9.2	35.3	—	+7000	—	—	Basic RNP1

IGAMO NORTH ARRIVAL

From IGAMO, to RUNPA, to KANPO at or above 7000FT.

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	IGAMO	—	—	-9.2	—	—	—	—	—	Basic RNP1
002	TF	RUNPA	—	050 (040.9)	-9.2	9.8	—	—	—	—	Basic RNP1
003	TF	KANPO	—	050 (041.0)	-9.2	12.5	—	+7000	—	—	Basic RNP1

RUGMO NORTH ARRIVAL

From RUGMO at or above 9000FT, to KANPO at or above 7000FT.

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	RUGMO	—	—	-9.2	—	—	+9000	—	—	Basic RNP1
002	TF	KANPO	—	089 (079.6)	-9.2	19.6	—	+7000	—	—	Basic RNP1

RUNPA NORTH ARRIVAL

From RUNPA, to KANPO at or above 7000FT.

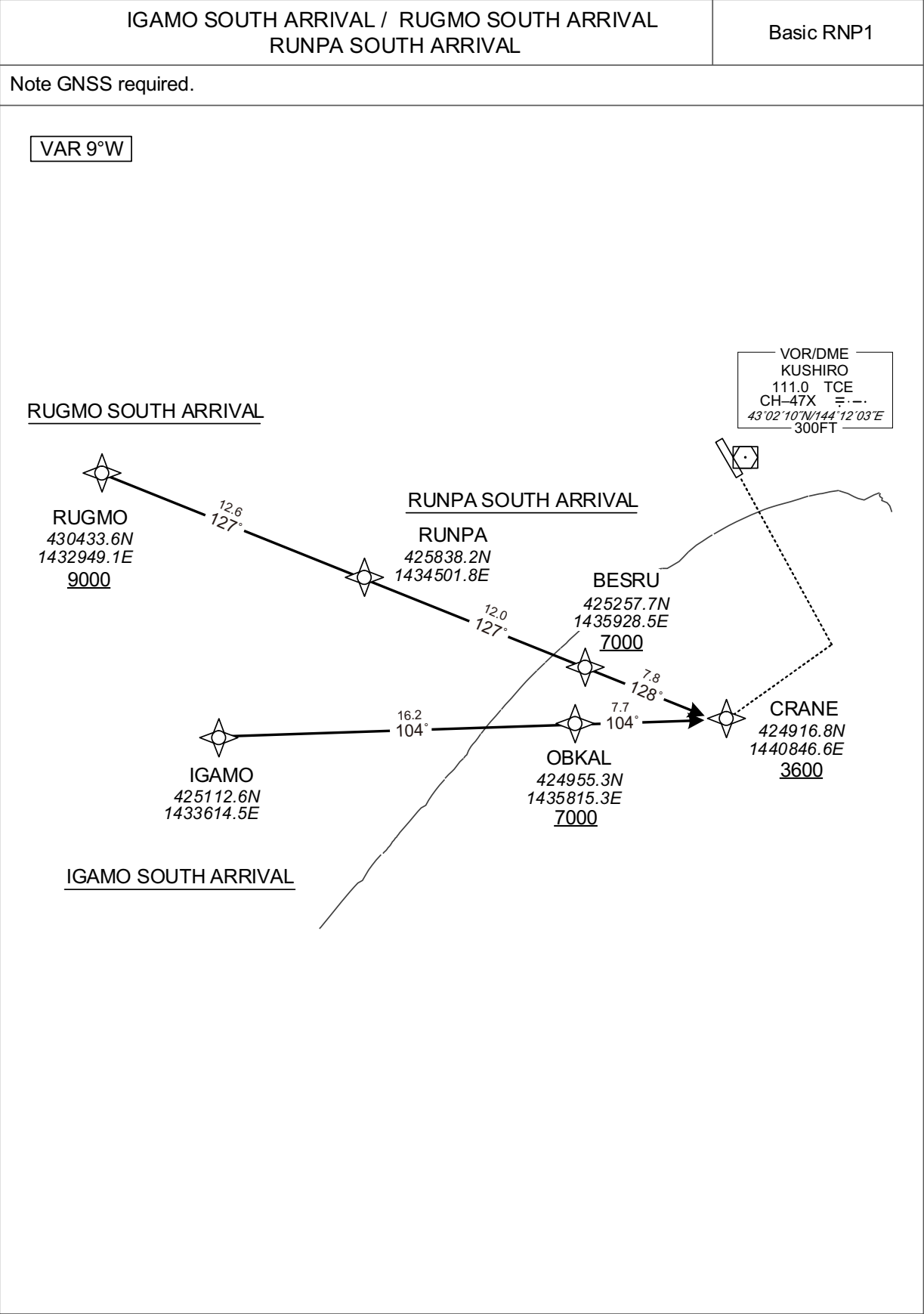
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	RUNPA	—	—	-9.2	—	—	—	—	—	Basic RNP1
002	TF	KANPO	—	050 (041.0)	-9.2	12.5	—	+7000	—	—	Basic RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY35



STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY35

IGAMO SOUTH ARRIVAL

From IGAMO, to OBKAL at or above 7000FT, to CRANE 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	IGAMO	—	—	-9.2	—	—	—	—	—	Basic RNP1
002	TF	OBKAL	—	104 (094.4)	-9.2	16.2	—	+7000	—	—	Basic RNP1
003	TF	CRANE	—	104 (094.7)	-9.2	7.7	—	+3600	—	—	Basic RNP1

RUGMO SOUTH ARRIVAL

From RUGMO at or above 9000FT, to RUNPA, to BESRU at or above 7000FT, to CRANE 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	RUGMO	—	—	-9.2	—	—	+9000	—	—	Basic RNP1
002	TF	RUNPA	—	127 (118.0)	-9.2	12.6	—	—	—	—	Basic RNP1
003	TF	BESRU	—	127 (118.1)	-9.2	12.0	—	+7000	—	—	Basic RNP1
003	TF	CRANE	—	128 (118.3)	-9.2	7.8	—	+3600	—	—	Basic RNP1

RUNPA SOUTH ARRIVAL

From RUNPA, to BESRU at or above 7000FT, to CRANE 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	RUNPA	—	—	-9.2	—	—	—	—	—	Basic RNP1
002	TF	BESRU	—	127 (118.1)	-9.2	12.0	—	+7000	—	—	Basic RNP1
003	TF	CRANE	—	128 (118.3)	-9.2	7.8	—	+3600	—	—	Basic RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

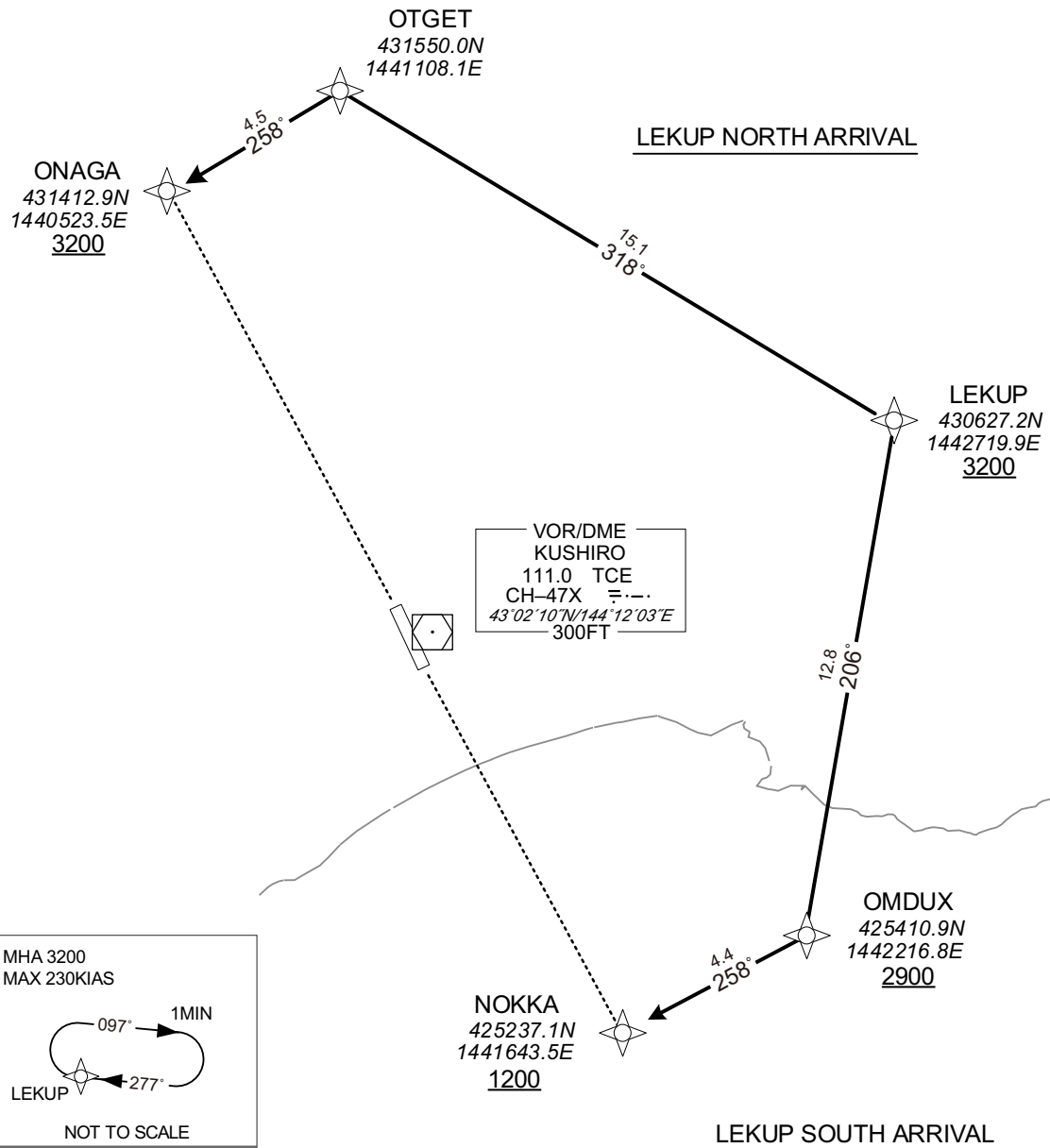
RNAV STAR

LEKUP NORTH ARRIVAL / LEKUP SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W



STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR

LEKUP NORTH ARRIVAL

From LEKUP at or above 3200FT, to OTGET, to ONAGA at or above 3200FT.

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	LEKUP	—	—	-9.2	—	—	+3200	—	—	Basic RNP1
002	TF	OTGET	—	318 (308.5)	-9.2	15.1	—	—	—	—	Basic RNP1
003	TF	ONAGA	—	258 (248.9)	-9.2	4.5	—	+3200	—	—	Basic RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	LEKUP	277 (268.1)	-9.2	1.0(-14000)	R	3200	FL140	-230(-14000)	Basic RNP1

LEKUP SOUTH ARRIVAL

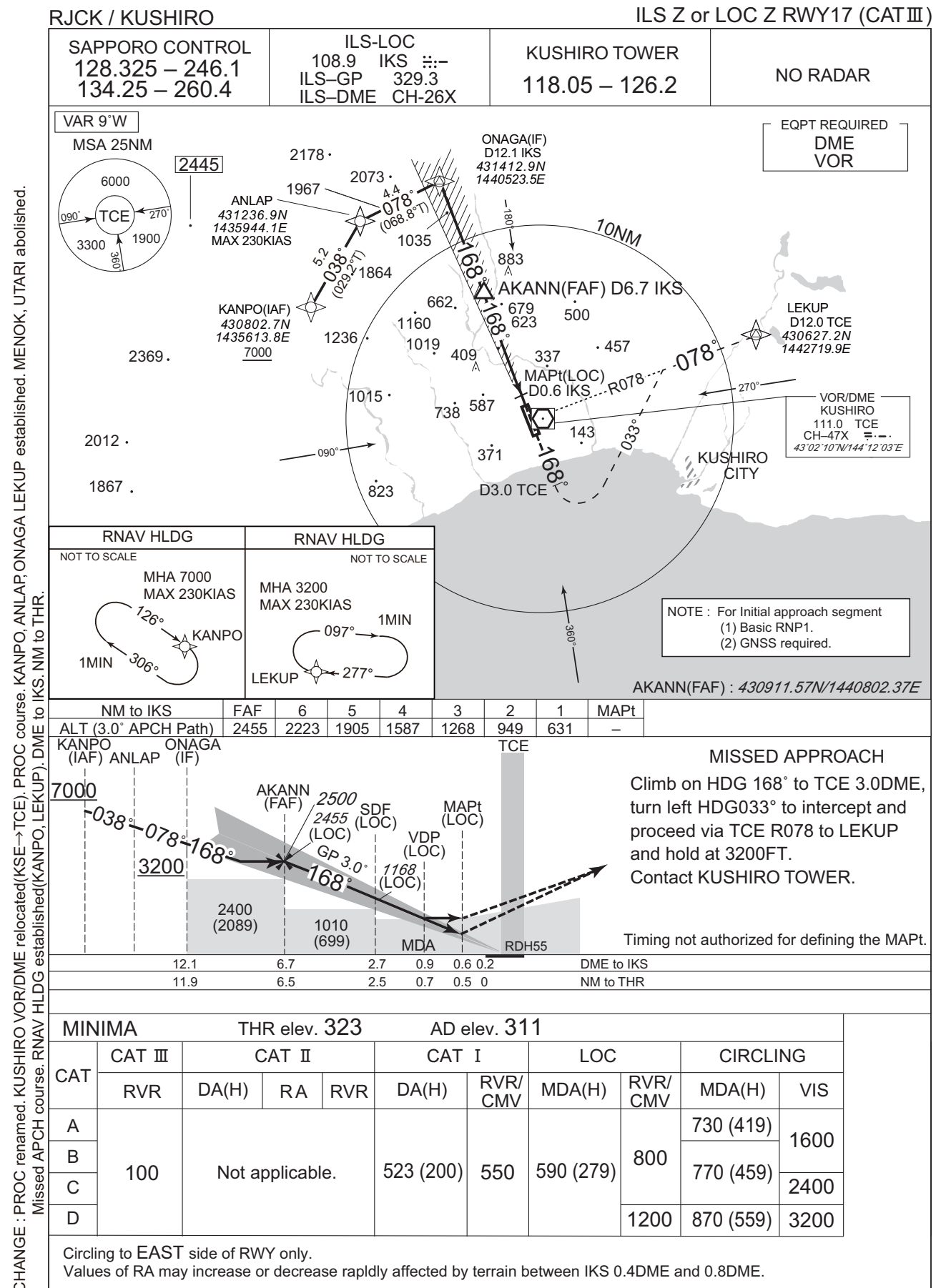
From LEKUP at or above 3200FT, to OMDUX at or above 2900FT, to NOKKA at or above 1200FT.

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	LEKUP	—	—	-9.2	—	—	+3200	—	—	Basic RNP1
002	TF	OMDUX	—	206 (196.8)	-9.2	12.8	—	+2900	—	—	Basic RNP1
003	TF	NOKKA	—	258 (249.0)	-9.2	4.4	—	+1200	—	—	Basic RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	LEKUP	277 (268.1)	-9.2	1.0(-14000)	R	3200	FL140	-230(-14000)	Basic RNP1
Hold	OMDUX	258 (249.0)	-9.2	1.0(-14000)	L	2900	FL140	-230(-14000)	Basic RNP1

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

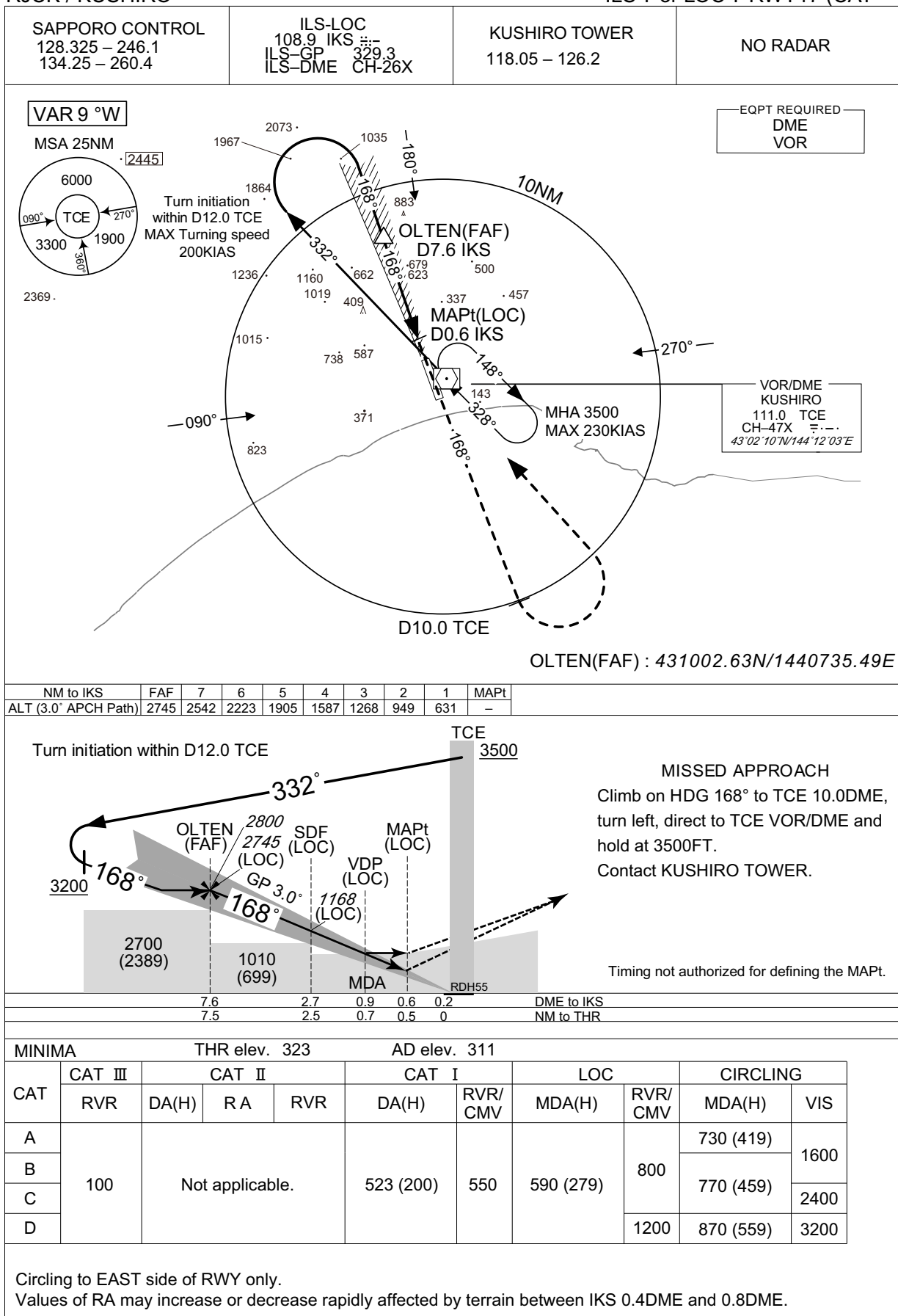


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INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

ILS Y or LOC Y RWY17 (CAT III)



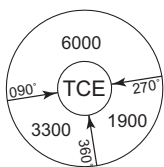
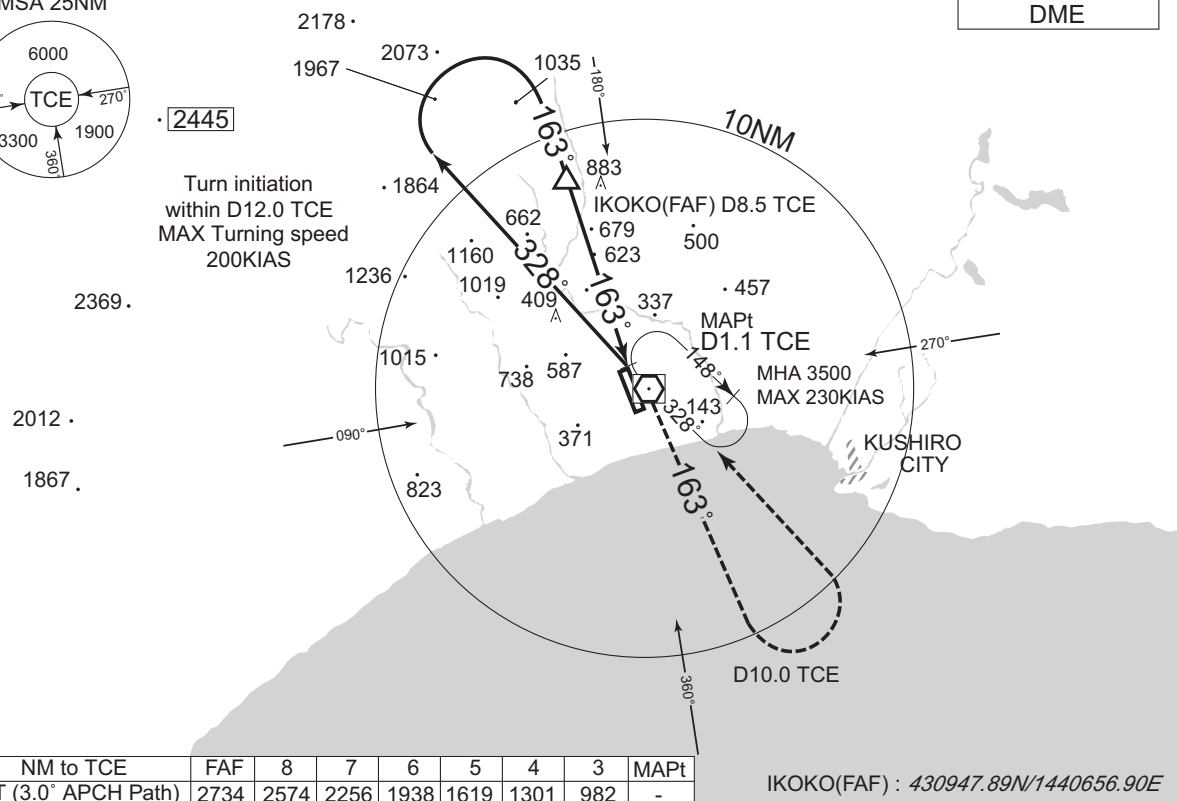
INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

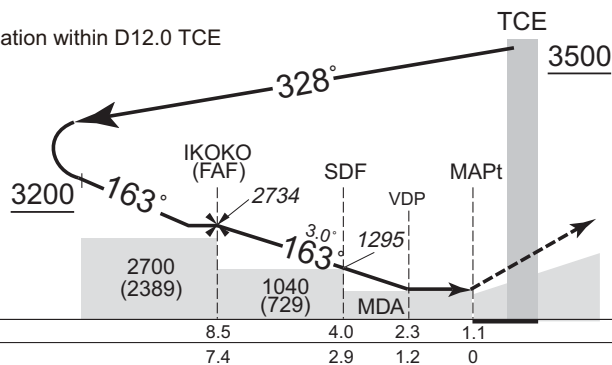
VOR RWY17

SAPPORO CONTROL
128.325 – 246.1
134.25 – 260.4KUSHIRO VOR/DME
111.0 TCE
CH-47X $\overline{\text{---}}$
43°02'10"N/144°12'03"EKUSHIRO TOWER
118.05 – 126.2

NO RADAR

VAR 9°W
MSA 25NMEQPT REQUIRED
DME

Turn initiation within D12.0 TCE



MISSED APPROACH

Climb via TCE R163 to
TCE 10.0DME, turn left,
direct to TCE VOR/DME and
hold at 3500FT.
Contact KUSHIRO TOWER.

Timing not authorized for defining the MAPt.

MINIMA THR elev. 323 AD elev. 311

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	740 (429)	900	780 (469)	1600
B		1000		2400
C				
D		1400	870 (559)	3200

Circling to EAST side of RWY only.

CHANGE : KUSHIRO VOR/DME relocated(KSE→TCE). MSA. PROC course. IKOKO established. ICORO, GENYA, MENOK abolished. ALT(3.0°APCH Path).
Missed APCH course. DME to TCE. NM to THR. OCA(H). MINIMA.

RJCK / KUSHIRO

SAPPHORO CONTROL
128.325 – 246.1
134.25 – 260.4

KUSHIRO VOR/DME
111.0 TCE
CH-47X
43°02'10"N/144°12'03"E

KUSHIRO TOWER
118.05 – 126.2

NO RADAR

VAR 9°W

EQPT REQUIRED DME

MSA 25NM

NM to TCE	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	-	881	1199	1518	1836

MISSED APPROACH
Climb via TCE R360 to TCE 10.0DME, turn left, direct to TCE VOR/DME and hold at 3500FT.
Contact KUSHIRO TOWER.

Timing not authorized for defining the MAPt.

TCE
3500

VDP
D1.2 TCE (CAT A)
D1.3 TCE (CAT B)
D1.4 TCE (CAT C)
D1.5 TCE (CAT D)

IGNAM (FAF) 1836

MDA 900 (610)

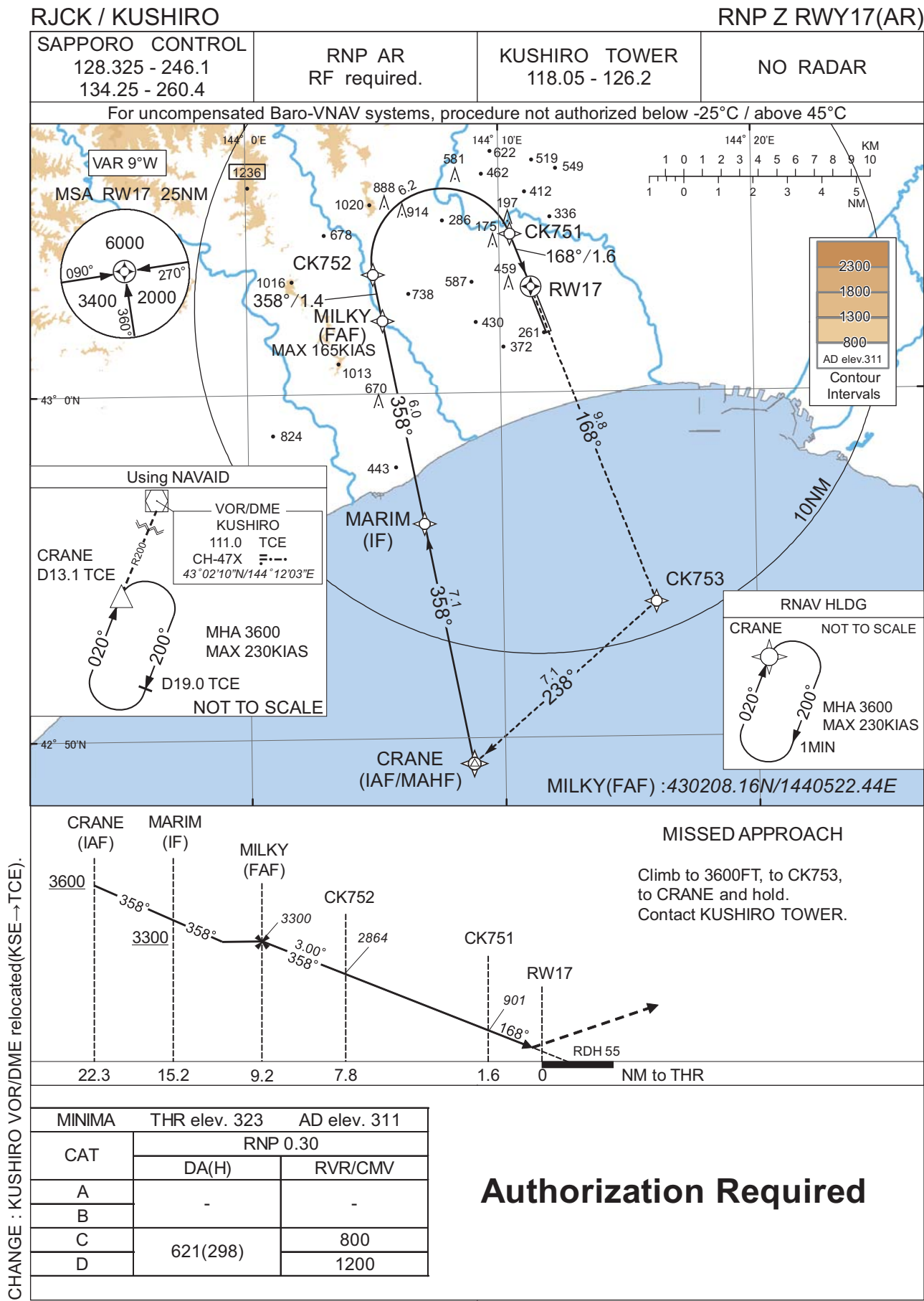
DME to TCE
0.3
NM to THR
0 5.0 4.7

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

Circling to EAST side of RWY only.

CHANGE :PROC renamed. KUSHIRO VOR/DME relocated(KSE →TCE). MSA. PROC course. IGNAM established. KAMUY abolished.
ALT(3.0°APCH Path). VDP. Missed APCH course: DME to TCE. NM to THR. MINIMA.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNP Z RWY17(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	CRANE	—	—	-9.2	—	—	+3600	—	—	—
002	TF	MARIM	—	358 (349.1)	-9.2	7.1	—	+3300	—	—	1.0
003	TF	MILKY	—	358 (349.0)	-9.2	6.0	—	3300	-165	—	1.0
004	TF	CK752	—	358 (349.0)	-9.2	1.4	—	2864	—	-3.00	0.3
005	RF Center: CKRF1 r=2.08NM	CK751	—	—	-9.2	6.2	R	901	—	-3.00	0.3
006	TF	RW17	Y	168 (159.0)	-9.2	1.6	—	378	—	-3.00/55	0.3
007	TF	CK753	—	168 (159.0)	-9.2	9.8	—	—	—	—	1.0
008	TF	CRANE	—	238 (229.0)	-9.2	7.1	—	3600	—	—	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	CRANE	020 (010.5)	-9.2	1.0(-14000)	R	3600	FL140	-230(-14000)	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		

CHANGE:PROC renamed.

RJCK / KUSHIRO

RNP Y RWY17(AR)

For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C



Climb to 3600FT, to CK753,
to CRANE and hold.
Contact KUSHIRO TOWER.

MINIMA	THR elev. 323	AD elev. 311
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	621(298)	800
D		1200

Authorization Required

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNP Y RWY17(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	MARNY	—	—	-9.2	—	—	+3800	—	—	—
002	TF	BEPP0	—	348 (339.1)	-9.2	9.7	—	3800	-165	—	1.0
003	TF	CK755	—	348 (339.1)	-9.2	2.5	—	3005	—	-3.00	0.3
004	RF Center: CKRF2 r=2.10NM	CK751	—	—	-9.2	6.6	L	901	—	-3.00	0.3
005	TF	RW17	Y	168 (159.0)	-9.2	1.6	—	378	—	-3.00/55	0.3
006	TF	CK753	—	168 (159.0)	-9.2	9.8	—	—	—	—	1.0
007	TF	CRANE	—	238 (229.0)	-9.2	7.1	—	3600	—	—	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	CRANE	020 (010.5)	-9.2	1.0(-14000)	R	3600	FL140	-230(-14000)	1.0
Hold	MARNY	326 (316.4)	-9.2	1.0(-14000)	R	3800	FL140	-230(-14000)	1.0

Waypoint Coordinates

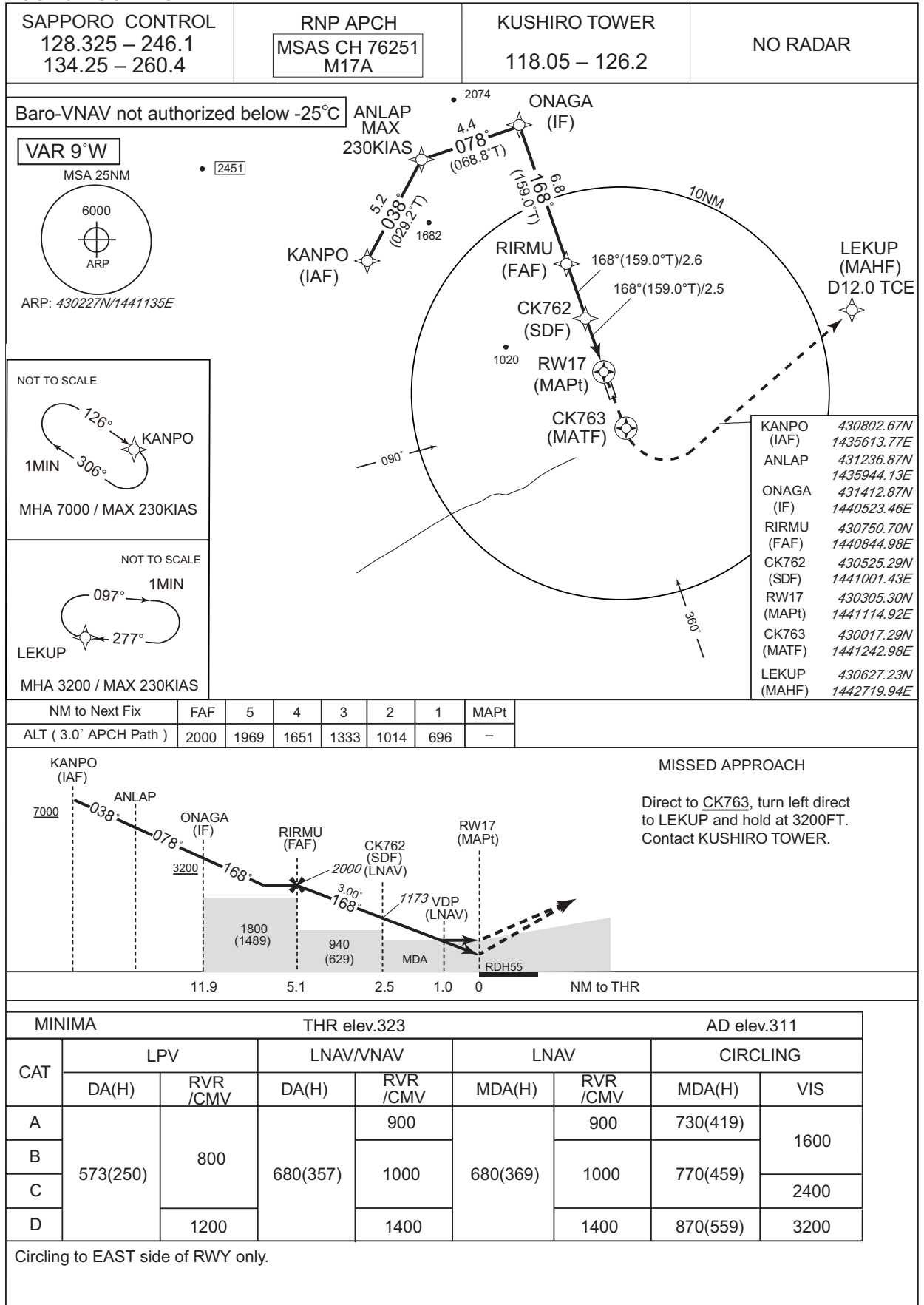
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MARNY	425443.27N / 1442145.22E	CKRF2	430522.76N / 1441307.17E
BEPP0	430348.15N / 1441701.05E		
CK755	430607.99N / 1441547.87E		
CK751	430437.47N / 1441026.54E		
RW17	430305.30N / 1441114.92E		
CK753	425355.48N / 1441602.58E		
CRANE	424916.84N / 1440846.59E		

CHANGE:PROC renamed.

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNP X RWY17



CHANGE : PROC ALT at CK762 added.

INSTRUMENT APPROACH CHART

RJCK /KUSHIRO

RNP X RWY17

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+01279
SBAS service provider identifier	2	FPAP latitude	430149.6680N
Airport identifier	RJCK	FPAP longitude	1441154.5465E
Runway	17	Threshold crossing height	00016.7
Approach performance designator	0	TCH units selector	1
Route indicator	X	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M17A	∠ length offset	0000
LTP/FTP latitude	430305.2840N	HAL	40.0
LTP/FTP longitude	1441114.8770E	VAL	50.0
CRC remainder	A0B919FD		

Required additional data

LTP/FTP orthometric height	98.0
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).

CHANGE : KUSHIRO VOR/DME deleted. LEKUP established. NUPRI abolished. Missed APCH course. RNAV HLDG established(LEKUP).
HLDG for NAVAID abolished(NUPRI).



INSTRUMENT APPROACH CHART

RJCK /KUSHIRO

RNP RWY35

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+01179
SBAS service provider identifier	2	FPAP latitude	430305.2840N
Airport identifier	RJCK	FPAP longitude	1441114.8770E
Runway	35	Threshold crossing height	00015.0
Approach performance designator	0	TCH units selector	1
Route indicator		Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M35A	∠ length offset	0000
LTP/FTP latitude	430149.6680N	HAL	40.0
LTP/FTP longitude	1441154.5465E	VAL	50.0
CRC remainder	F9C3454C		

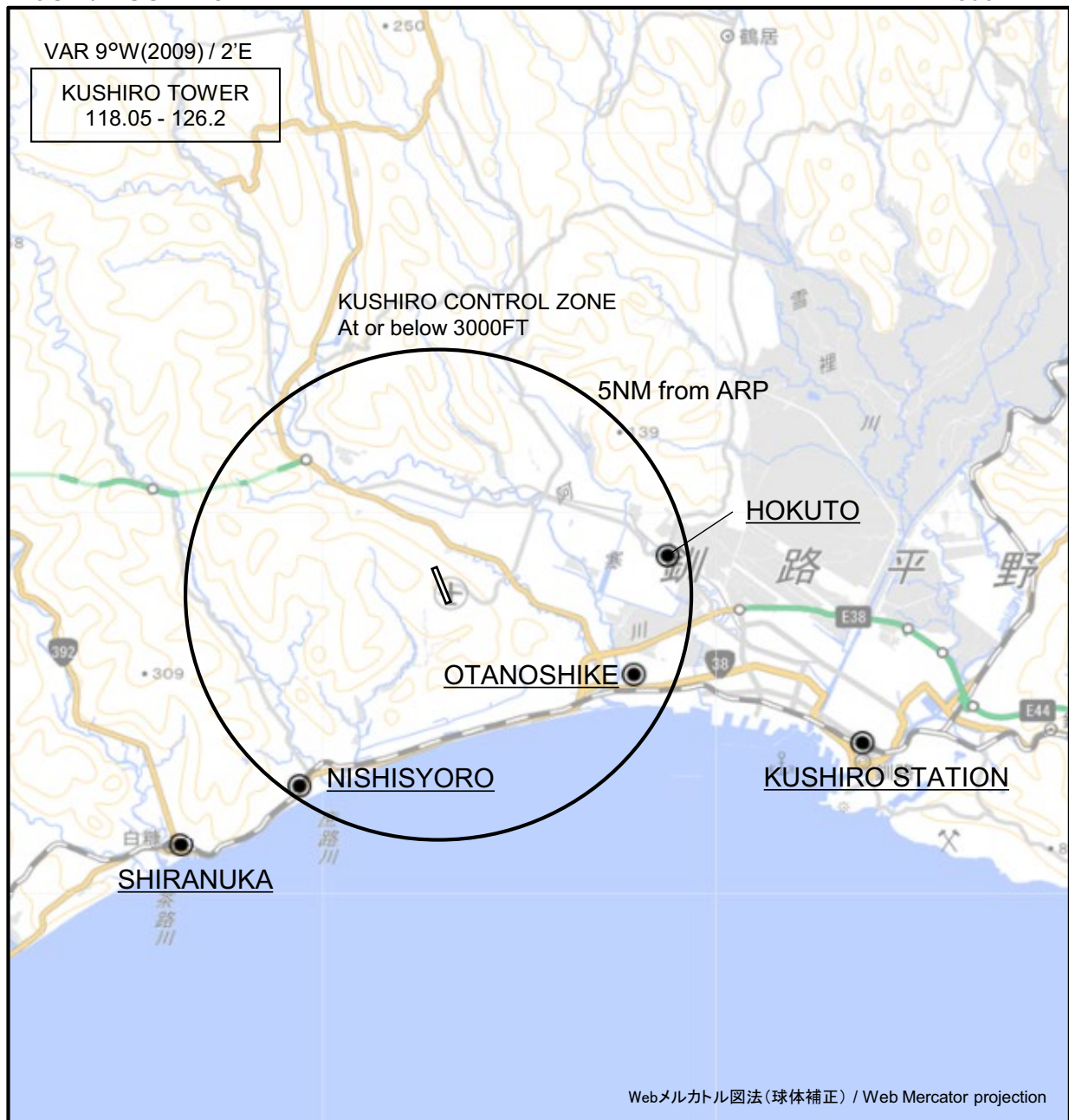
Required additional data

LTP/FTP orthometric height	88.1
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).

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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).

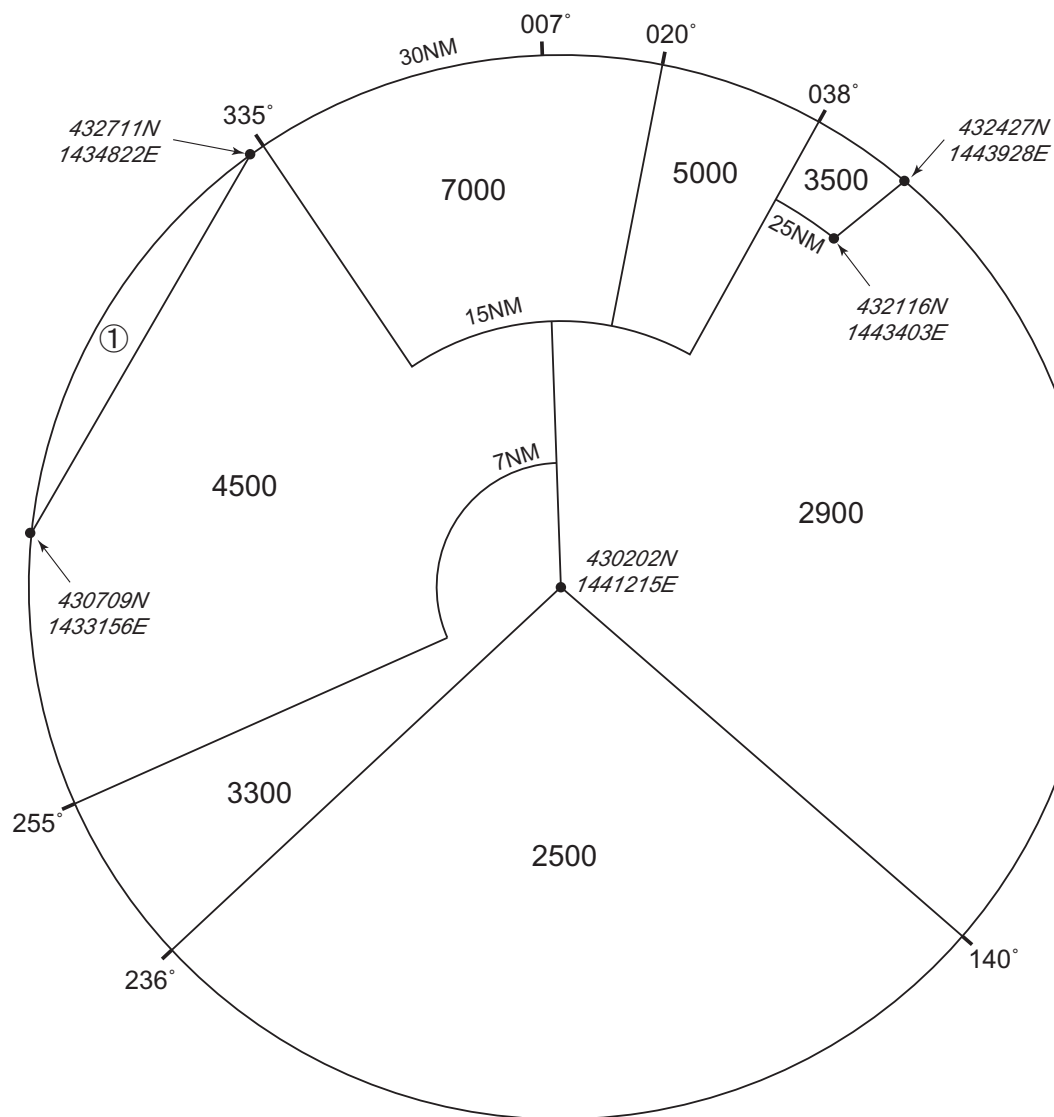
Call sign	BRG / DIST from ARP	Remarks
北斗 Hokuto	080°T / 4.6NM	T字路交差点 Intersection
大楽毛 Otanoshike	113°T / 4.2NM	製紙工場煙突群 Chimneys
釧路ステーション Kushiro Station	110°T / 8.8NM	JR駅 Station
西庶路 Nishisyoro	215°T / 4.7NM	JR駅 Station
白糖 Shiranuka	225°T / 7.2NM	JR駅 Station

CHANGE : Map updated. BRG/DIST from ARP.

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Minimum Vectoring Altitude CHART

VAR 9°W (2007)



CHANGE : KSE deleted.