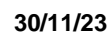


AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

PANKE TWO DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn right HDG 220°...

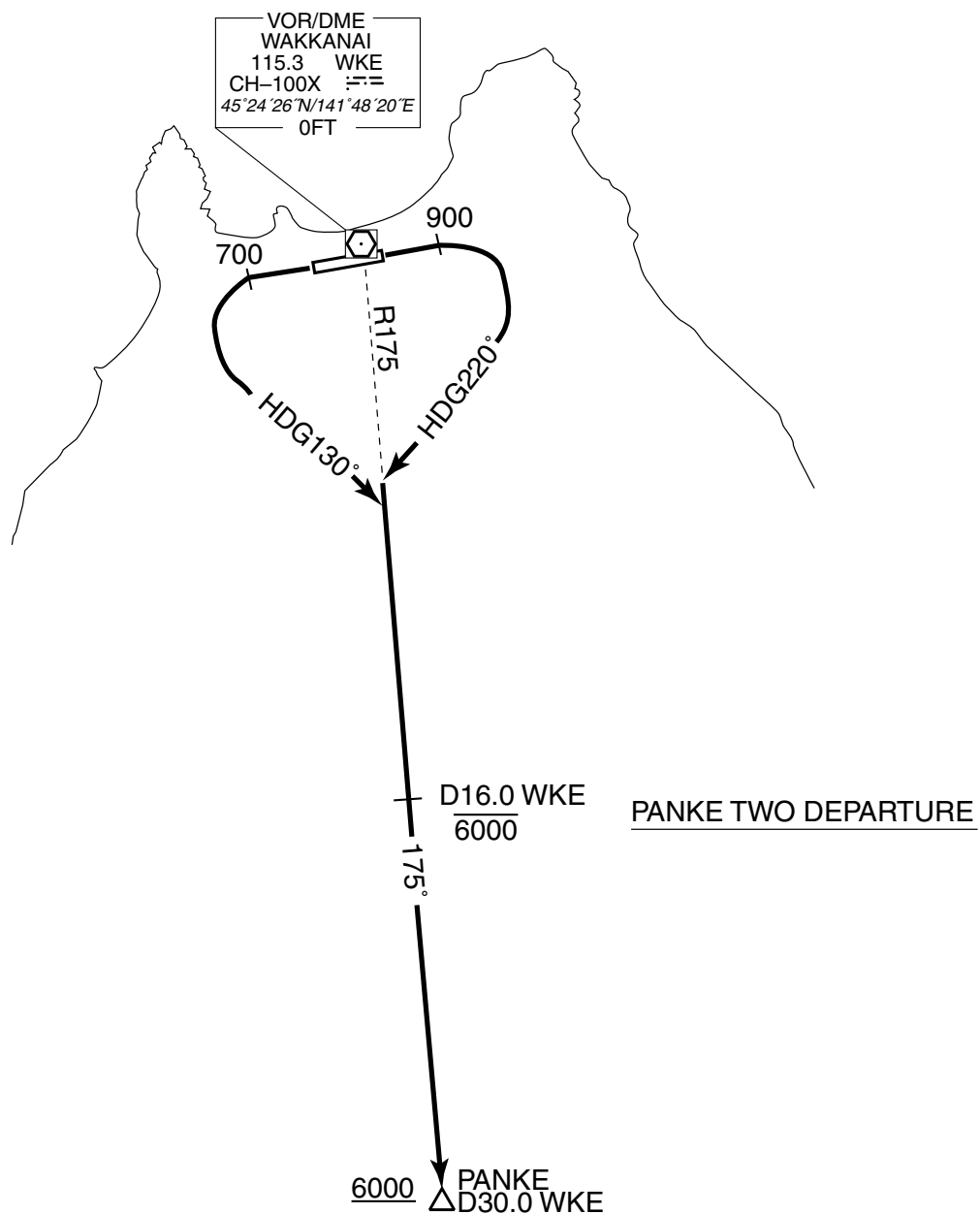
RWY26 : Climb RWY HDG to 700FT, turn left HDG 130°...

...to intercept and proceed via WKE R175 to PANKE.

Cross WKE R175/16.0DME at or below 6000FT, cross PANKE at or above 6000FT.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

TRANSITION

URYU TRANSITION

From over PANKE, proceed via WKE R175/AWE R355 to intercept and proceed via SPE R040 to RUMOI.

Cross WKE R175/60.0DME (AWE R355/48.0DME) at or above 11000FT.

NOTE : PANKE AWE MRA 9000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

RUMOI FIVE DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn right HDG 237°...

RWY26 : Climb RWY HDG to 700FT, turn left HDG 147°...

...to intercept and proceed via WKE R192/CHE R011 to RUMOI.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.

RUMOI WKE MRA FL140.

RUMOI FIVE DEPARTURE



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

WAKKANAI REVERSAL ONE DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn left HDG302°...

RWY26 : Climb RWY HDG to 700FT, turn right HDG032°...

...to intercept and proceed via WKE R347 to 2500FT, turn right direct to WKE VOR/DME.

Cross WKE VOR/DME at or above 5000FT.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.

WAKKANAI REVERSAL
ONE DEPARTURE

STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

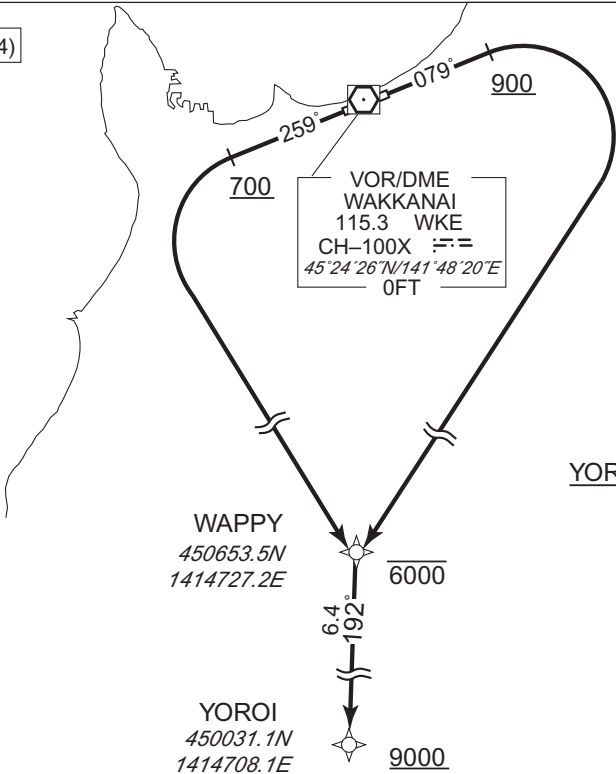
RNAV SID

YOROI ONE DEPARTURE

RNP1

Note GNSS required.

VAR 10°W (2014)



YOROI ONE DEPARTURE

YOROI ONE DEPARTURE

- RWY08 : Climb on HDG079° at or above 900FT, turn right direct to WAPPY at or below 6000FT, to YOROI at or above 9000FT.
- RWY26 : Climb on HDG259° at or above 700FT, turn left direct to WAPPY at or below 6000FT, to YOROI at or above 9000FT.

Note RWY08 : 6.0% climb gradient required up to 900FT.
RWY26 : 5.0% climb gradient required up to 700FT.

RWY08

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	—	—	079 (068.8)	-9.9	—	—	+900	—	—	RNP1
002	DF	WAPPY	—	—	-9.9	—	R	-6000	—	—	RNP1
003	TF	YOROI	—	192 (182.0)	-9.9	6.4	—	+9000	—	—	RNP1

RWY26

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	—	—	259 (248.9)	-9.9	—	—	+700	—	—	RNP1
002	DF	WAPPY	—	—	-9.9	—	L	-6000	—	—	RNP1
003	TF	YOROI	—	192 (182.0)	-9.9	6.4	—	+9000	—	—	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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STANDARD ARRIVAL CHART-INSTRUMENT

RJCW / WAKKANAI

STAR

IKURA ARRIVAL

From over KABTO, turn right proceed via WKE 10.0DME counterclockwise ARC to IKURA.

Cross WKE R120 at or above 2100FT, cross IKURA at or above 2000FT.



IKURA ARRIVAL

STANDARD ARRIVAL CHART - INSTRUMENT

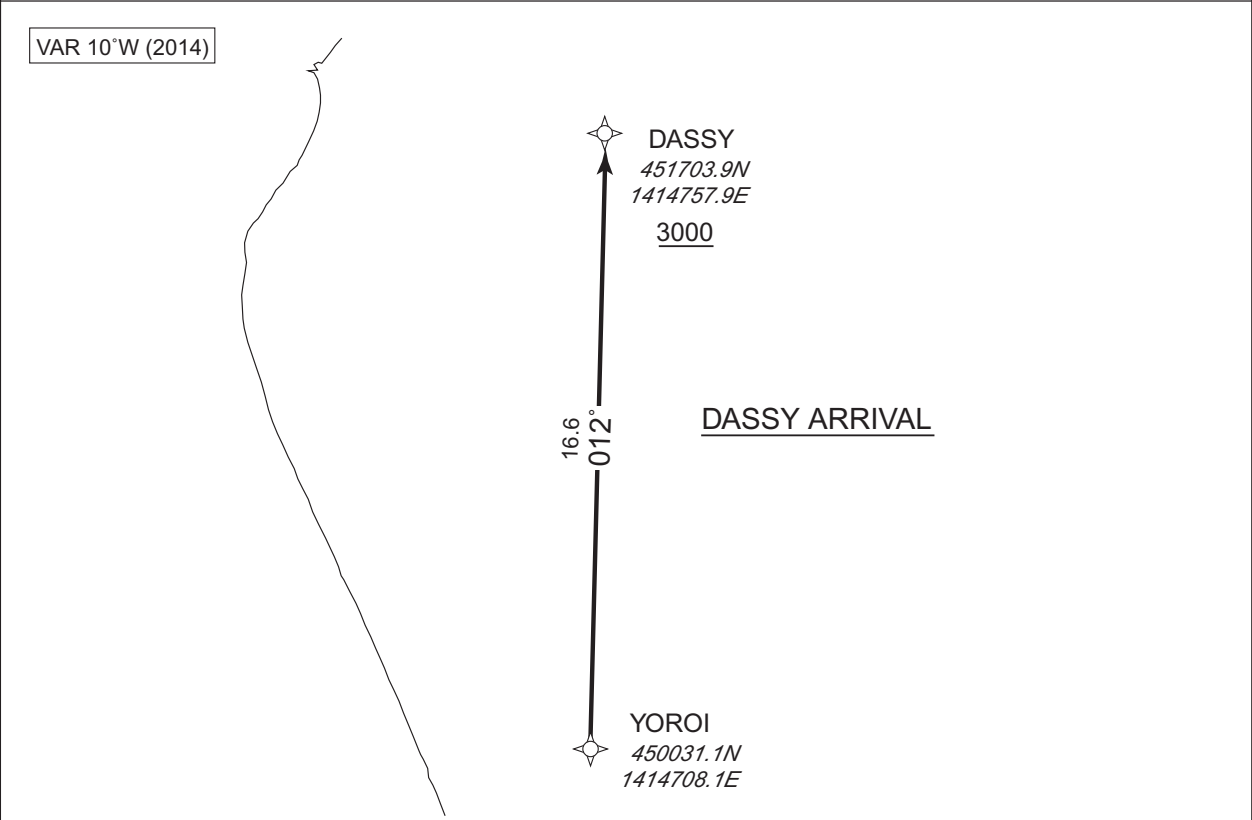
RJCW / WAKKANAI

RNAV STAR

DASSY ARRIVAL

RNP1

Note GNSS required.



DASSY ARRIVAL

From YOROI, to DASSY at or above 3000FT.

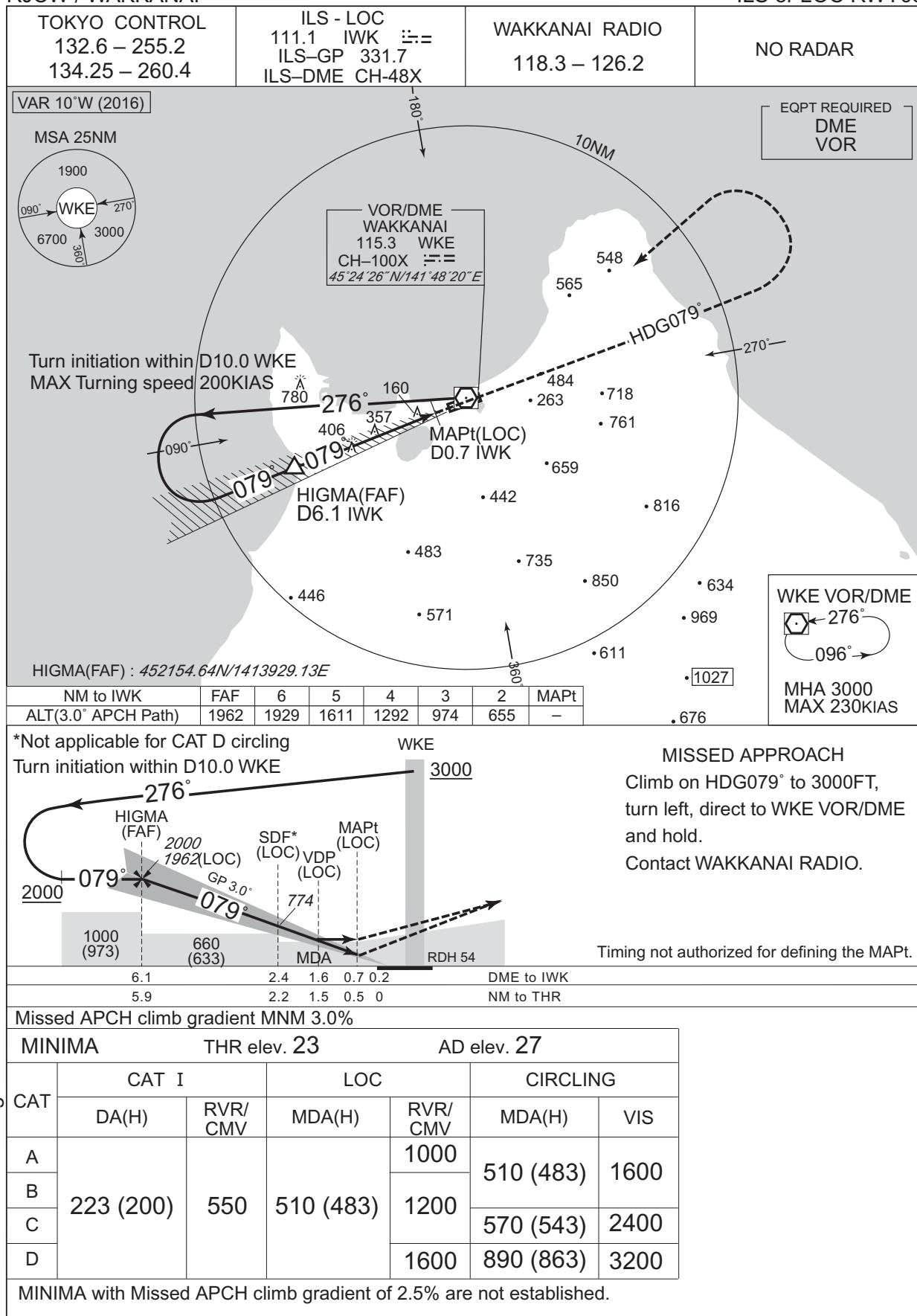
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YOROI	—	—	-9.9	—	—	—	—	—	RNP1
002	TF	DASSY	—	012 (002.0)	-9.9	16.6	—	+3000	—	—	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

ILS or LOC RWY08



CHANGE : ATC call sign.

RJCW / WAKKANAI

TOKYO CONTROL
132.6 – 255.2
134.25 – 260.4

WAKKANAI VOR/DME
115.3 WKE
CH-100X
45°24'26"N/141°48'20"E

WAKKANAI RADIO
118.3 – 126.2

NO RADAR

VAR 10°W (2016)

MSA 25NM
1900
090° WKE 270°
6700 3000
360°

EQPT REQUIRED
DME

Turn initiation within D10.0 WKE
MAX Turning speed 200KIAS

TALBA(FAF) : 452158.31N/1414053.20E

NM to WKE	FAF	5	4	3	MAPt
ALT(3.0° APCH Path)	1665	1410	1091	773	—

WKE VOR/DME
276°
096°
MHA 3000
MAX 230KIAS

*Not applicable for CAT D circling
Turn initiation within D10.0 WKE

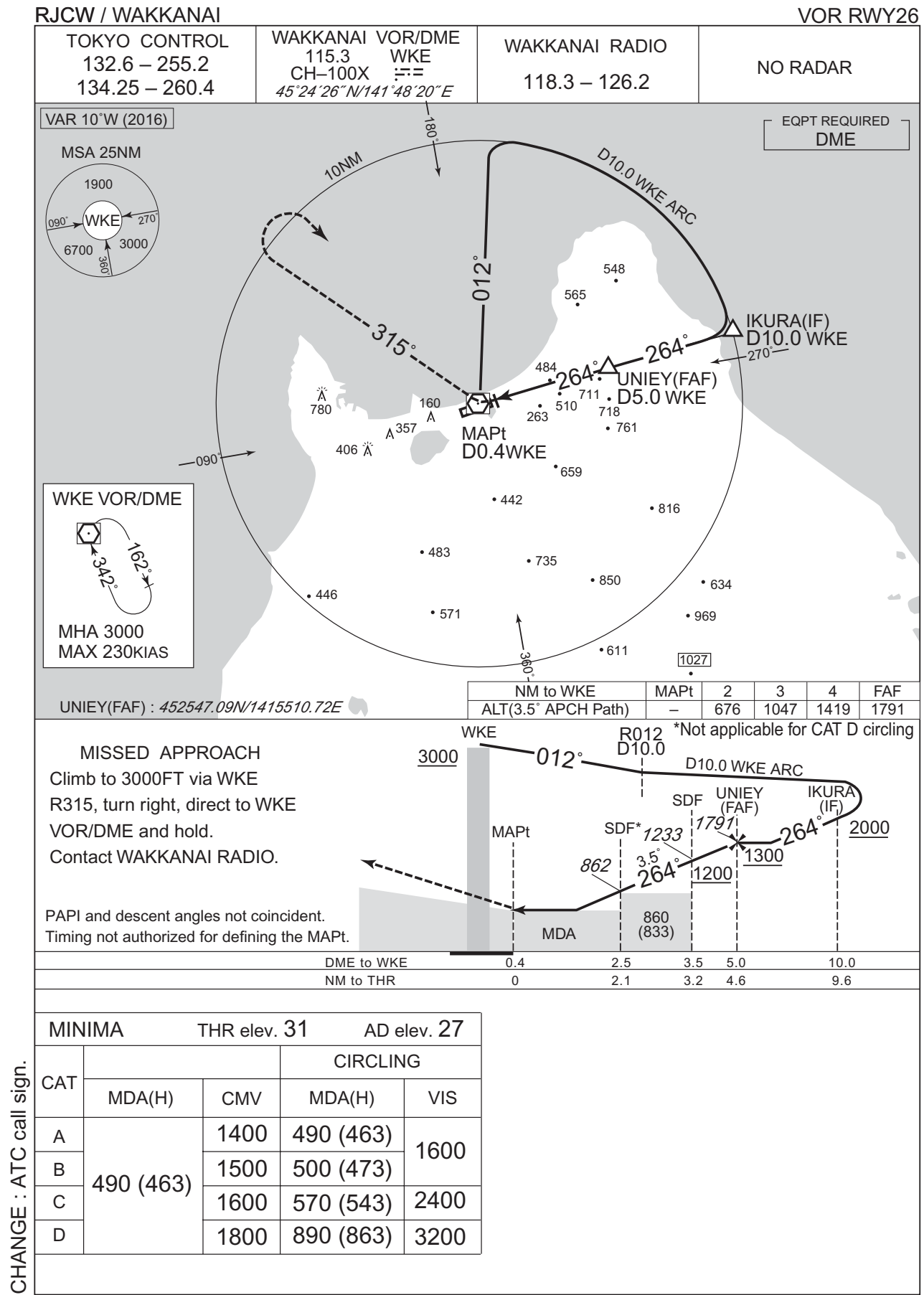
MISSED APPROACH
Climb to 3000FT via WKE
R075, turn left, direct to WKE
VOR/DME and hold.
Contact WAKKANAI RADIO.

Timing not authorized for defining the MAPt.

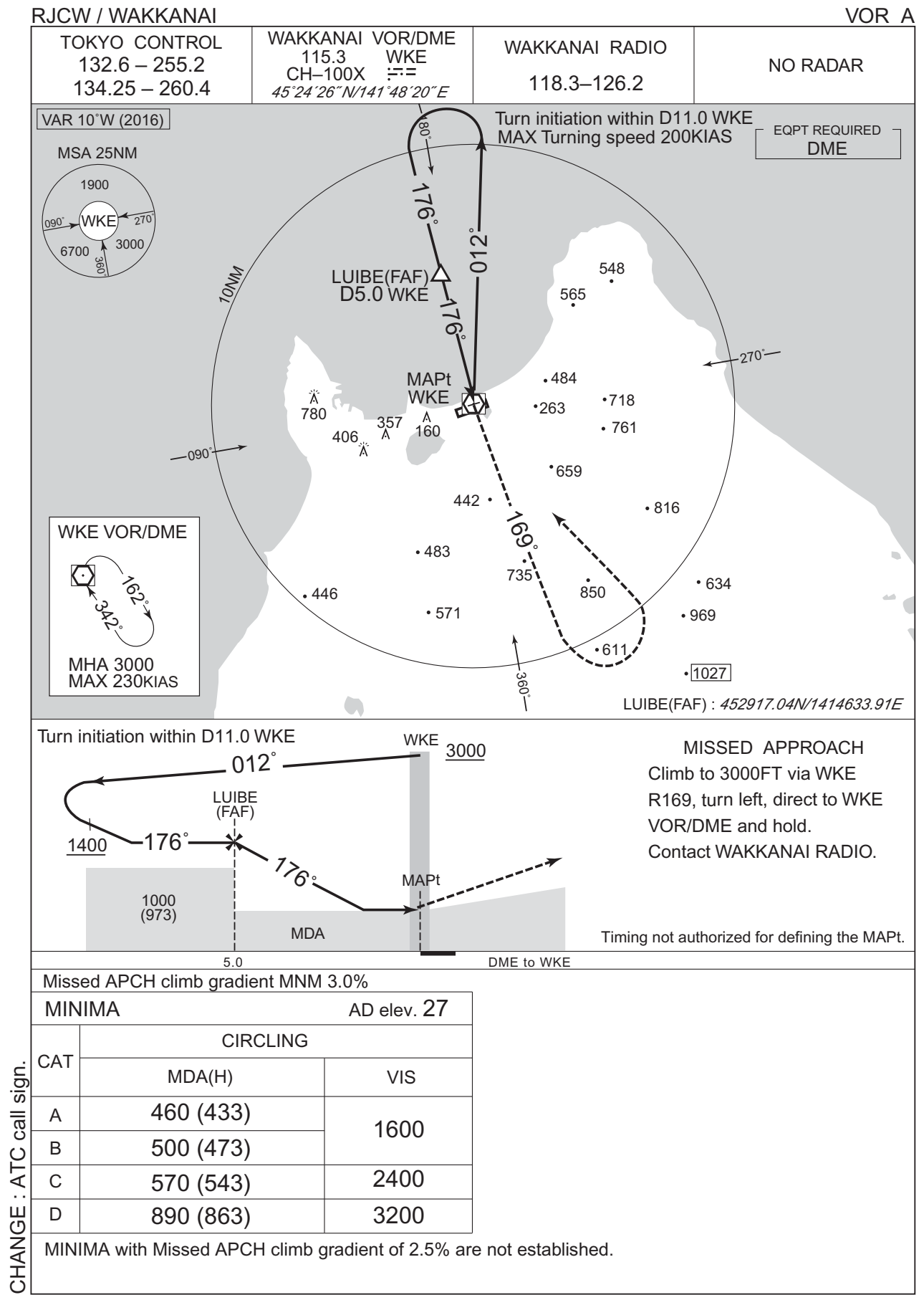
MINIMA	THR elev. 23	AD elev. 27		
CAT	MDA(H)	RVR/CMV	MDA(H)	VIS
A	510 (483)	1000	510 (483)	1600
B		1200		
C		1200		
D		1600		

CHANGE : ATC call sign.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

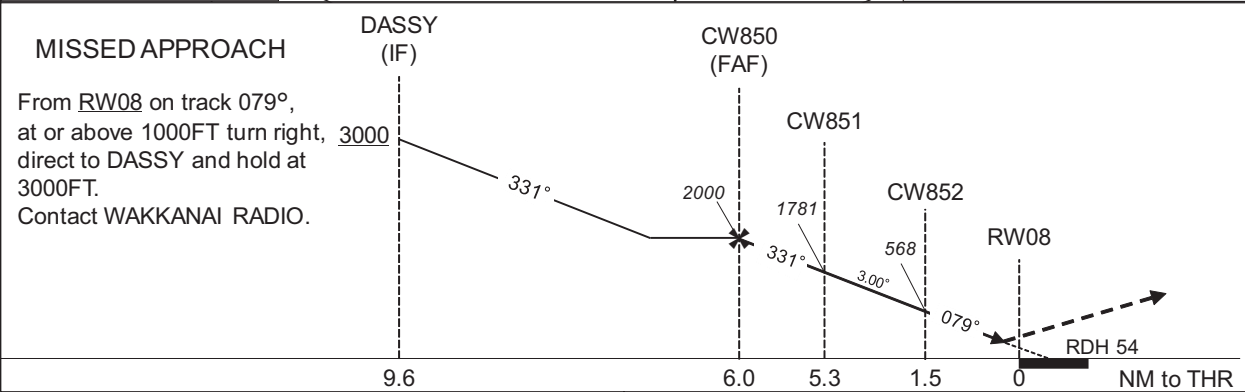
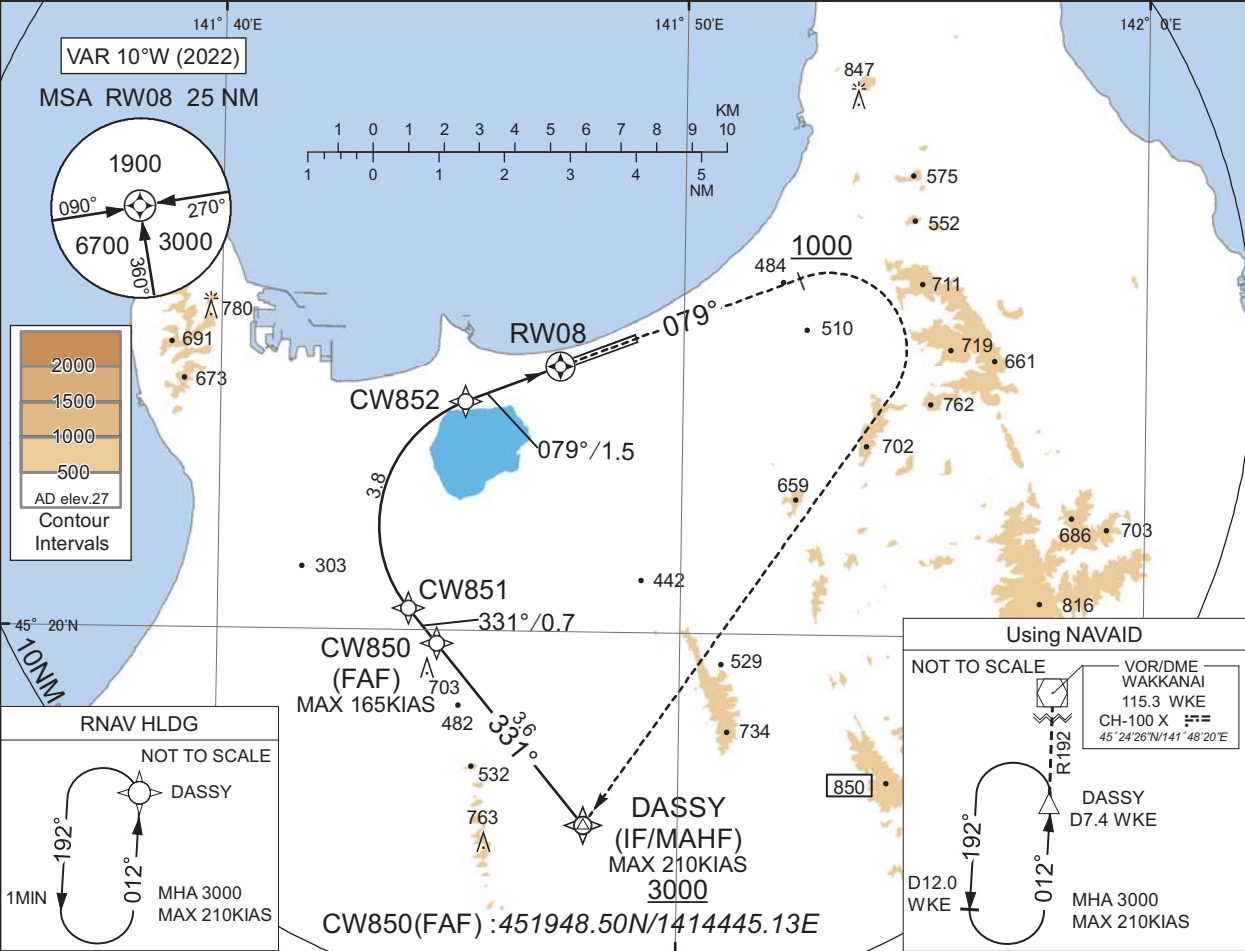


INSTRUMENT APPROACH CHART

RJCW / WAKKANAI RNP RWY08(AR)

TOKYO CONTROL 132.6 - 255.2 134.25 - 260.4	RNP AR RF required.	WAKKANAI RADIO 118.3 - 126.2	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 23	AD elev. 27
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	323(300)	1000
D	323(300)	1400

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

Authorization Required

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY08(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	DASSY	-	-	-10.5	-	-	+3000	-210	-	-
002	TF	CW850	-	331 (320.5)	-10.5	3.6	-	2000	-165	-	1.0
003	TF	CW851	-	331 (320.5)	-10.5	0.7	-	1781	-	-3.00	0.3
004	RF Center: CWRF1 r=2.01NM	CW852	-	-	-10.5	3.8	R	568	-	-3.00	0.3
005	TF	RW08	Y	079 (068.8)	-10.5	1.5	-	77	-	-3.00/54	0.3
006	FA	-	-	079 (068.8)	-10.5	-	-	+1000	-	-	1.0
007	DF	DASSY	-	-	-10.5	-	R	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	DASSY	012 (002.0)	-10.5	1.0 (-14000)	L	3000	FL140	-210 (-14000)	1.0

Waypoint Coordinates

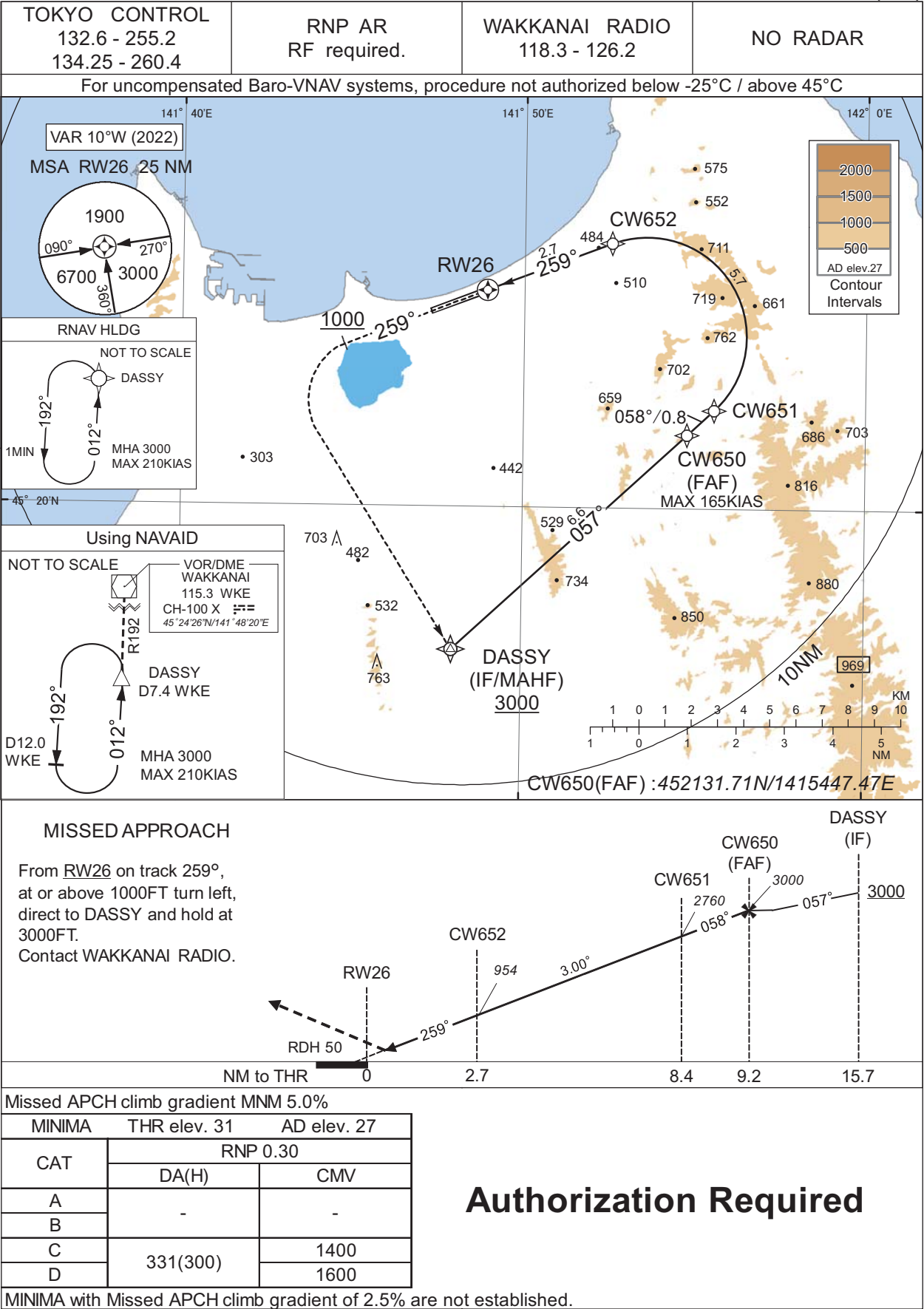
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CW850	451948.50N / 1414445.13E	CWRF1	452137.25N / 1414619.72E
CW851	452020.32N / 1414407.80E		
CW852	452329.85N / 1414518.02E		
RW08	452403.14N / 1414720.43E		
DASSY	451703.92N / 1414757.93E		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY26(AR)



INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY26(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	DASSY	-	-	-10.5	-	-	+3000	-	-	-
002	TF	CW650	-	057 (047.0)	-10.5	6.6	-	3000	-165	-	1.0
003	TF	CW651	-	058 (047.1)	-10.5	0.8	-	2760	-	-3.00	0.3
004	RF Center: CWRF2 r=2.05NM	CW652	-	-	-10.5	5.7	L	954	-	-3.00	0.3
005	TF	RW26	Y	259 (248.9)	-10.5	2.7	-	81	-	-3.00/50	0.3
006	FA	-	-	259 (248.9)	-10.5	-	-	+1000	-	-	1.0
007	DF	DASSY	-	-	-10.5	-	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	DASSY	012 (002.0)	-10.5	1.0 (-14000)	L	3000	FL140	-210 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CW650	452131.71N / 1415447.47E	CWRF2	452332.87N / 1415335.73E
CW651	452202.42N / 1415534.54E		
CW652	452527.92N / 1415232.94E		
RW26	452428.77N / 1414854.78E		
DASSY	451703.92N / 1414757.93E		

CHANGE : PROC renamed.

RJCW / WAKKANAI

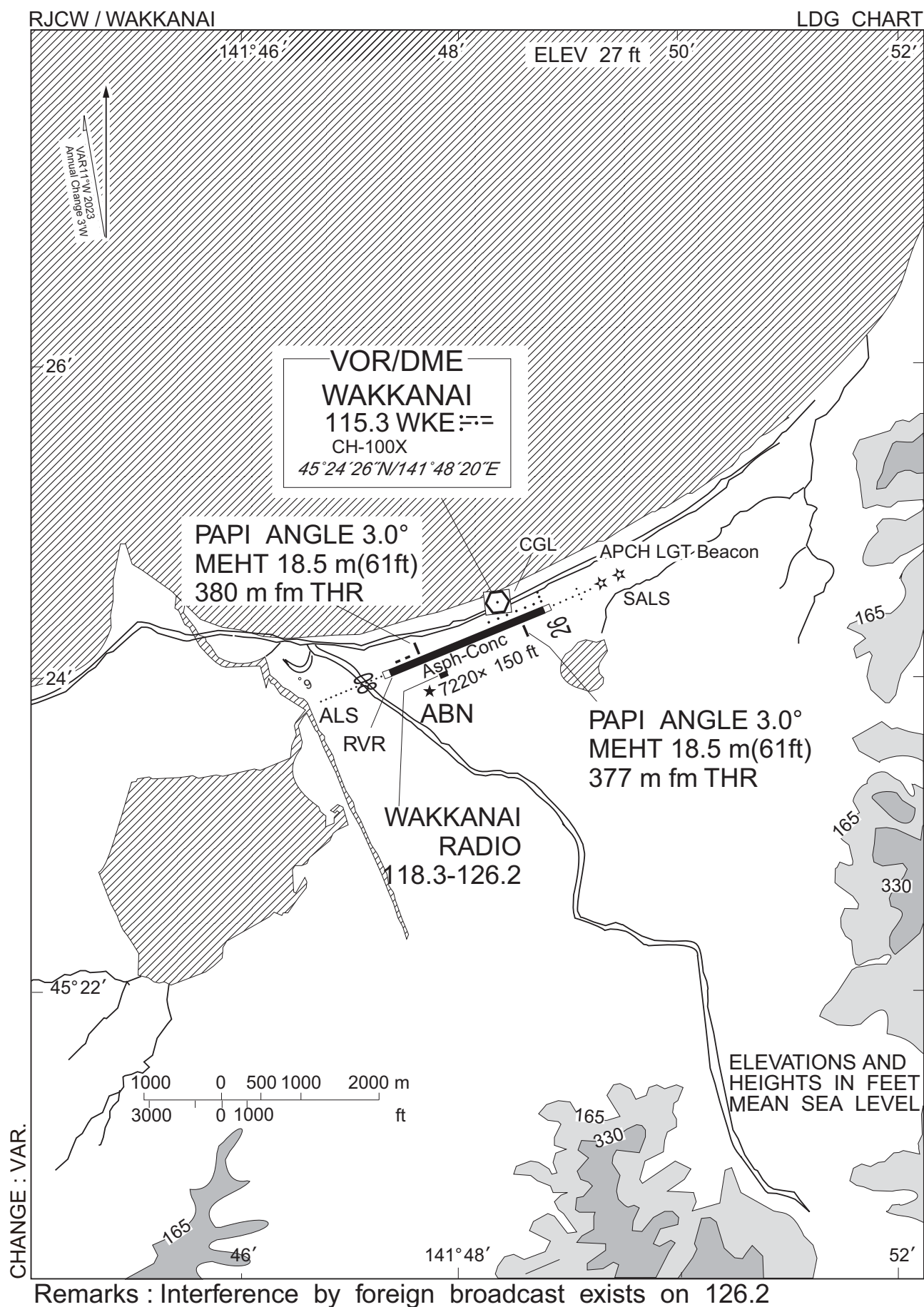
Visual REP



※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 : VAR.

Call sign	BRG / DIST from ARP	Remarks
宗谷岬 Soyamisaki	039°T / 9.0NM	灯台 Lighthouse
野寒布岬 Noshappumisaki	292°T / 7.2NM	灯台 Lighthouse
抜海 Bakkai	234°T / 9.7NM	岬 Cape



RJCW / WAKKANAI

Minimum Vectoring Altitude CHART

CHANGE : Description of VAR.

