

RJCO / SAPPORO

AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO

SID

KURIS THREE DEPARTURE

RWY 14: Turn left,....

RWY 32: Turn right,....

....Climb via HDG 057° to intercept and proceed via SPE R103 to KURIS.

Cross KURIS at or above 5000FT.

SAPPORO REVERSAL FOUR DEPARTURE

RWY 14: Turn left,....

RWY 32:

....Climb to SPE VOR/DME, via SPE R335, turn left to intercept and proceed via SPE R310 to SPE VOR/DME within SPE 15.0DME.

Cross SPE R335/6.0DME at or below 6000FT,
cross SPE R310/6.0DME at or above 10000FT.

SAPPORO THREE DEPARTURE

RWY 14: Turn left,....

RWY 32:

....Climb to SPE VOR/DME.

RUMOI TRANSITION

From over SPE VOR/DME, climb via SPE R040 to RUMOI.

Cross SPE R040/8.0DME at or above 4000FT, cross RUMOI at assigned altitude.

BEEBA TRANSITION

From over SPE VOR/DME, climb via SPE R069 to BEEBA.

Cross BEEBA at assigned altitude.

MOIWA TRANSITION

From over SPE VOR/DME, climb via SPE R325 to 3000FT or above, turn left to intercept and proceed via SPE R203 to MOIWA.

Cross MOIWA at or above 7000FT.

Note: Do not start left turn to MOIWA before SPE VOR/DME.

STANDARD DEPARTURE CHART - INSTRUMENT

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SID



SAPPORO REVERSAL FOUR DEPARTURE



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SID

KURIS REVERSAL FOUR DEPARTURE

RWY 14 : Turn left,....

RWY 32 :

....climb direct to SPE VOR/DME, via SPE R325 until passing 3000 FT, turn left to intercept and proceed via SPE R305 to SPE VOR/DME within SPE 10.0DME, via SPE R103 to KURIS.

Cross SPE R103/10.0DME at or above 6000FT,
cross KURIS at or above 7000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO

RNAV SID

BANKE ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 10° W(2020)

BANKE ONE DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, turn left direct to YAFFL at or above 3000FT, to FUUTA, to BANKE, to MOIWA at or above 7000FT.

RWY32 : Climb on HDG325° at or above 2000FT, turn left direct to BANKE, to MOIWA at or above 7000FT.

Note RWY14 : 6.0% climb gradient required up to 2200FT.

OBST ALT 2822FT located at 7.8NM 266° FM end of RWY14.

RWY32 : 6.0% climb gradient required up to 4000FT.

OBST ALT 3585FT located at 8.4NM 261° FM end of RWY32.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO

RNAV SID

BANKE ONE DEPARTURE

RWY14

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	—	—	145 (134.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	YAFFL	—	—	-9.7	—	L	+3000	—	—	Basic RNP1
003	TF	FUUTA	—	245 (235.2)	-9.7	6.1	—	—	—	—	Basic RNP1
004	TF	BANKE	—	180 (170.4)	-9.7	6.2	—	—	—	—	Basic RNP1
005	TF	MOIWA	—	204 (193.9)	-9.7	7.3	—	+7000	—	—	Basic RNP1

RWY32

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	—	—	325 (314.8)	-9.7	—	—	+2000	—	—	Basic RNP1
002	DF	BANKE	—	—	-9.7	—	L	—	—	—	Basic RNP1
003	TF	MOIWA	—	204 (193.9)	-9.7	7.3	—	+7000	—	—	Basic RNP1

CHANGE : New PROC .

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO

RNAV SID

TOBET EAST ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 10° W(2020)



TOBET EAST ONE DEPARTURE

TOBET EAST ONE DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, turn left direct to TOBET, to KURIS at or above 5000FT.

RWY32 : Climb on HDG325° at or above 500FT, turn right direct to TOBET, to KURIS at or above 5000FT.

Note RWY14 : 6.0% climb gradient required up to 500FT.

RWY32 : 6.0% climb gradient required up to 500FT.

RWY14

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	—	—	145 (134.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	L	—	—	—	Basic RNP1
003	TF	KURIS	—	137 (127.7)	-9.7	8.7	—	+5000	—	—	Basic RNP1

RWY32

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	—	—	325 (314.8)	-9.7	—	—	+500	—	—	Basic RNP1
002	DF	TOBET	—	—	-9.7	—	R	—	—	—	Basic RNP1
003	TF	KURIS	—	137 (127.7)	-9.7	8.7	—	+5000	—	—	Basic RNP1

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJCO / SAPPORO

RNAV SID



CHANGE : New PROC .

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STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO

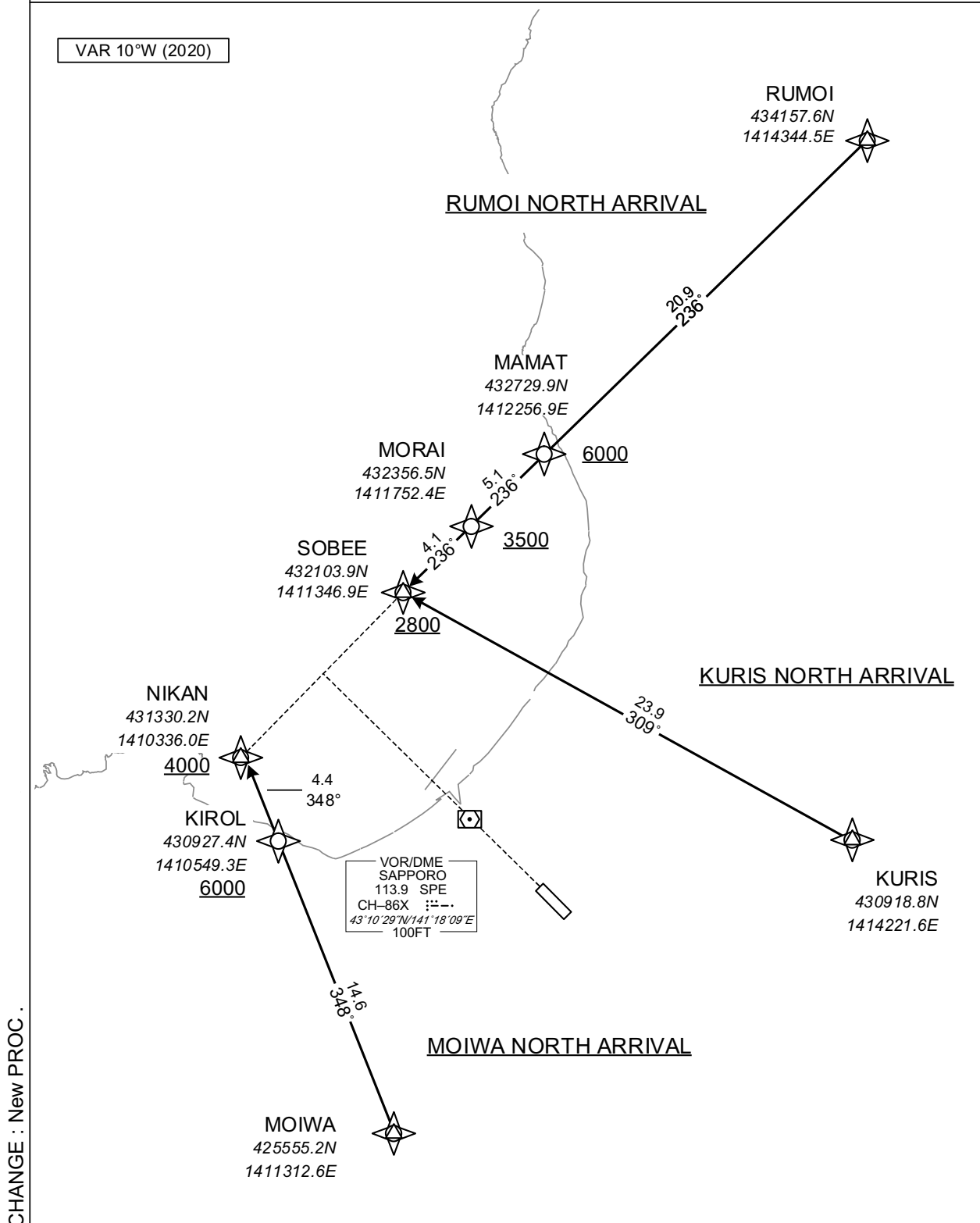
RNAV STAR RWY14

MOIWA NORTH ARRIVAL
RUMOI NORTH ARRIVAL
KURIS NORTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10°W (2020)



CHANGE : New PROC .

STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO

RNAV STAR RWY14

MOIWA NORTH ARRIVAL

From MOIWA, to KIROL at or above 6000FT, to NIKAN at or above 4000FT.

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	MOIWA	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	KIROL	-	348 (338.3)	-9.7	14.6	-	+6000	-	-	Basic RNP1
003	TF	NIKAN	-	348 (338.2)	-9.7	4.4	-	+4000	-	-	Basic RNP1

RUMOI NORTH ARRIVAL

From RUMOI, to MAMAT at or above 6000FT, to MORAI at or above 3500FT, to SOBEE at or above 2800FT.

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	RUMOI	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.7	20.9	-	+6000	-	-	Basic RNP1
003	TF	MORAI	-	236 (226.0)	-9.7	5.1	-	+3500	-	-	Basic RNP1
004	TF	SOBEE	-	236 (226.0)	-9.7	4.1	-	+2800	-	-	Basic RNP1

KURIS NORTH ARRIVAL

From KURIS, to SOBEE at or above 2800FT.

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	KURIS	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	SOBEE	-	309 (299.6)	-9.7	23.9	-	+2800	-	-	Basic RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO

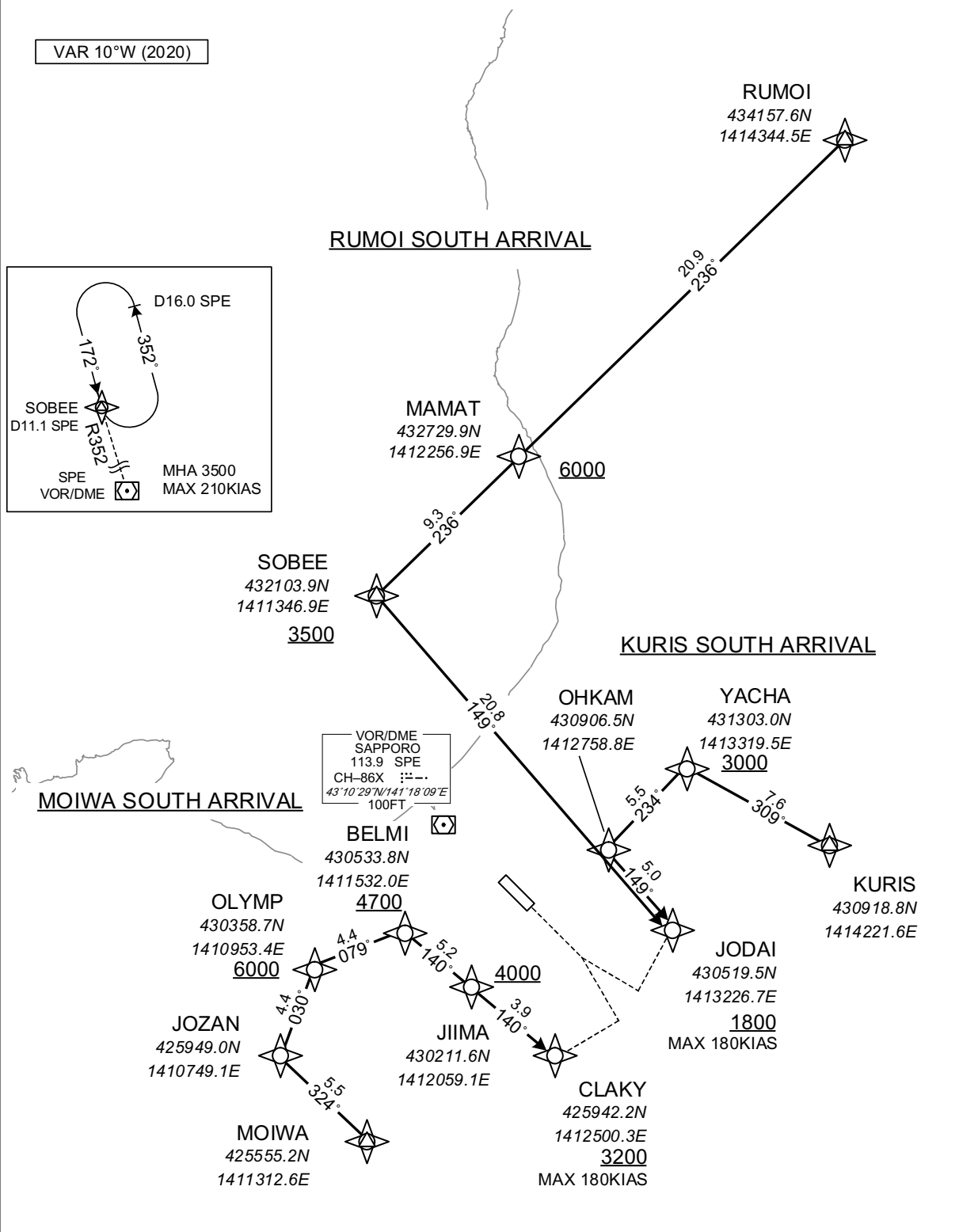
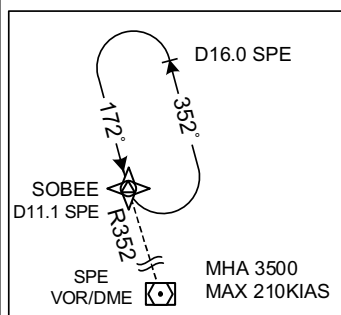
RNAV STAR RWY32

MOIWA SOUTH ARRIVAL
RUMOI SOUTH ARRIVAL
KURIS SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10°W (2020)



STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO

RNAV STAR RWY32

MOIWA SOUTH ARRIVAL

From MOIWA, to JOZAN, to OLYMP at or above 6000FT, to BELMI at or above 4700FT, to JIIMA at or above 4000FT, to CLAKY 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	MOIWA	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	JOZAN	-	324 (314.7)	-9.7	5.5	-	-	-	-	Basic RNP1
003	TF	OLYMP	-	030 (020.0)	-9.7	4.4	-	+6000	-	-	Basic RNP1
004	TF	BELMI	-	079 (068.9)	-9.7	4.4	-	+4700	-	-	Basic RNP1
005	TF	JIIMA	-	140 (130.2)	-9.7	5.2	-	+4000	-	-	Basic RNP1
006	TF	CLAKY	-	140 (130.3)	-9.7	3.9	-	+3200	-180	-	Basic RNP1

RUMOI SOUTH ARRIVAL

From RUMOI, to MAMAT at or above 6000FT, to SOBEE at or above 3500FT, to JODAI at or above 1800FT.

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	RUMOI	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	MAMAT	-	236 (226.3)	-9.7	20.9	-	+6000	-	-	Basic RNP1
003	TF	SOBEE	-	236 (226.0)	-9.7	9.3	-	+3500	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.1)	-9.7	20.8	-	+1800	-180	-	Basic RNP1

KURIS SOUTH ARRIVAL

From KURIS, to YACHA at or above 3000FT, to OHKAM, to JODAI at or above 1800FT.

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	KURIS	-	-	-9.7	-	-	-	-	-	Basic RNP1
002	TF	YACHA	-	309 (299.6)	-9.7	7.6	-	+3000	-	-	Basic RNP1
003	TF	OHKAM	-	234 (224.7)	-9.7	5.5	-	-	-	-	Basic RNP1
004	TF	JODAI	-	149 (139.2)	-9.7	5.0	-	+1800	-180	-	Basic RNP1

CHANGE : New PROC .

INSTRUMENT APPROACH CHART

RJCO / SAPPORO

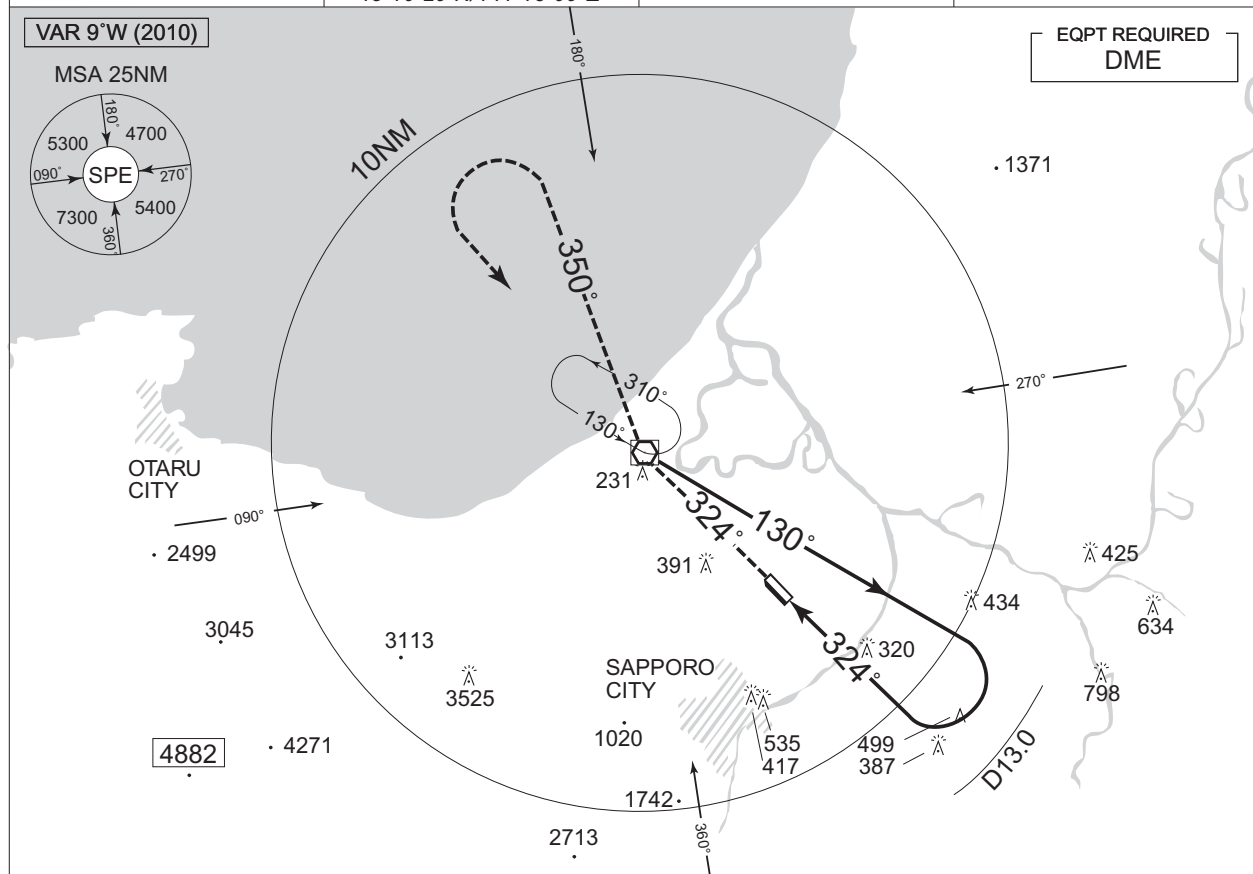
VOR RWY14



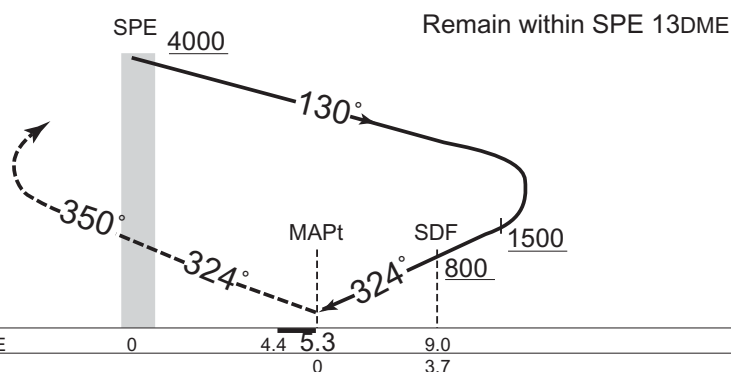
RJCO / SAPPORO

VOR RWY32

SAPPORO APP 119.225 – 121.075 315.9	SAPPORO VOR/DME 113.9 SPE 三三 CH-86X 43°10'29"N/141°18'09"E	SAPPORO TWR 118.1 – 126.2 – 140.5 138.05 – 121.8G	GCA AVBL CALL SAPPORO APP
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At 5.3DME prior to SPE VOR/DME
climb to 4000FT via SPE R144
then SPE R350, turn left
within SPE 10.0DME, proceed to
SPE VOR/DME and hold.
Contact SAPPORO APP.

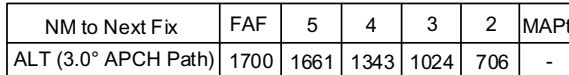


MINIMA		THR elev. 27	AD elev. 26	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	620 (594)	1500	620 (594)	1600
B		2000		2400
C				
D	—	—	—	—

Circling to **EAST** side of RWY only.

RJCO / SAPPORO

RNAV(GNSS) RWY14

Baro-VNAV not authorized below -15°C

(For using VOR/DME)
Turn left climb to 2800FT via HDG 307° to
intercept and proceed via SPE R352 to
SOBEE and hold.
Contact SAPPORO APP.

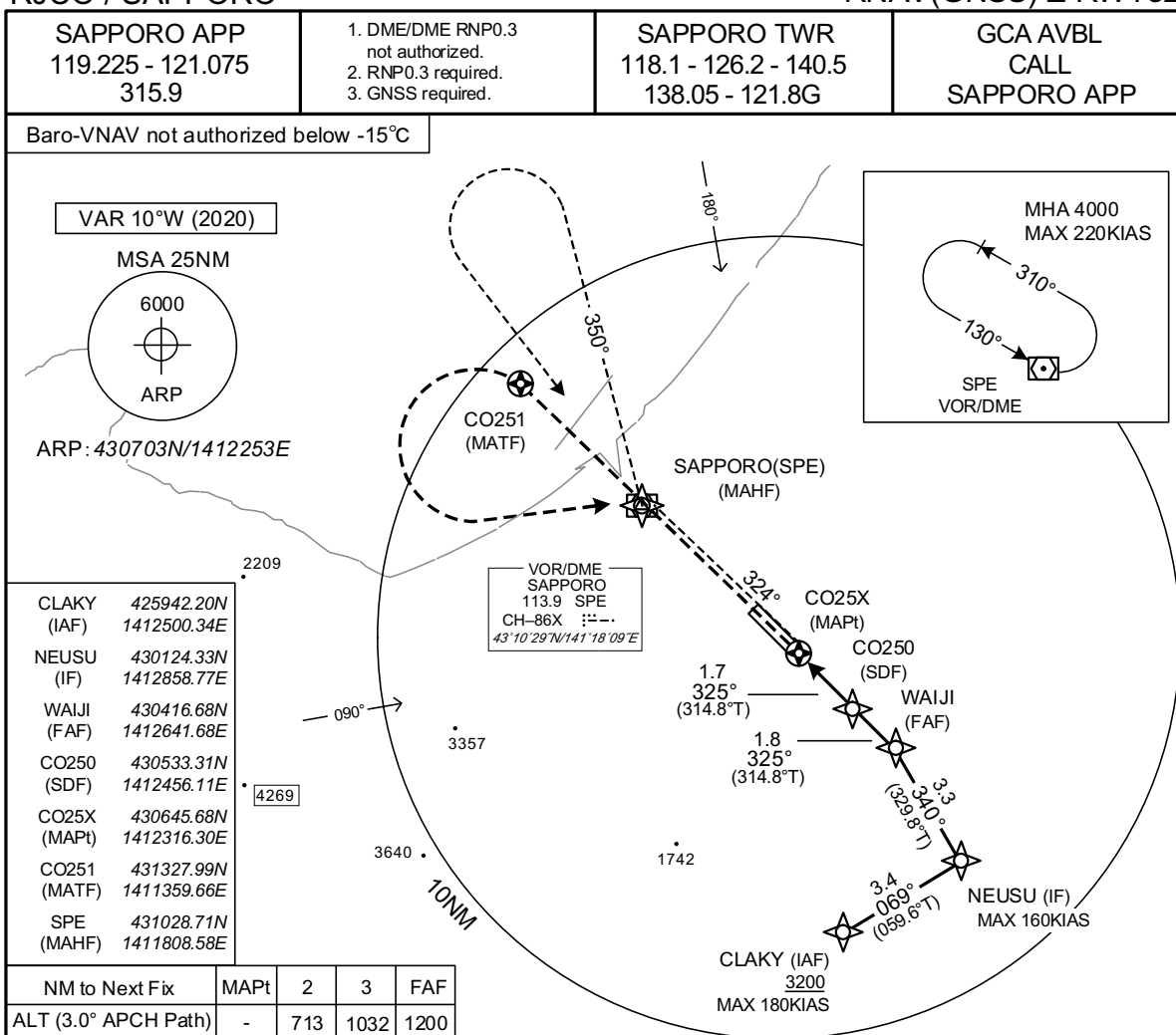
MINIMA		THR elev. 20		AD elev. 26		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	440 (420)	1500	440 (414)	1500	600 (574)	1600
B		1800		1800		2400
C						
D	-	-	-	-	-	-

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

RJCO / SAPPORO

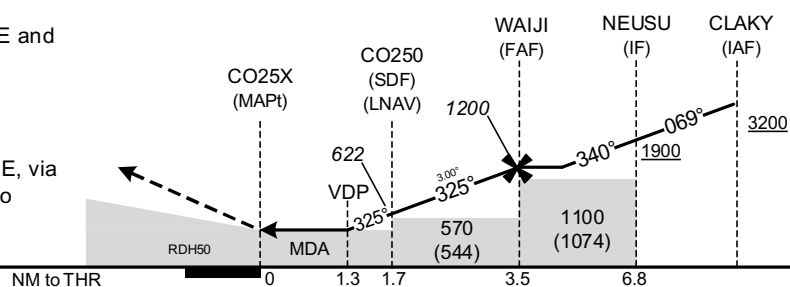
RNAV(GNSS) Z RWY32



MISSED APPROACH

Direct to CO251, turn left direct to SPE and hold at 4000FT.
Contact SAPPORO APP.

(For using VOR/DME)
Climb via SPE R144 to SPE VOR/DME, via SPE R350 to 4000FT, turn left direct to SPE VOR/DME and hold.
Contact SAPPORO APP.



MINIMA

THR elev. 27

AD elev. 26

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	460 (433)	1500	460 (434)	1500	600 (574)	1600
B		1800		1800		2400
C	-	-	-	-	-	-
D	-	-	-	-	-	-

Circling to EAST side of RWY only.

CHANGE : New PROC.

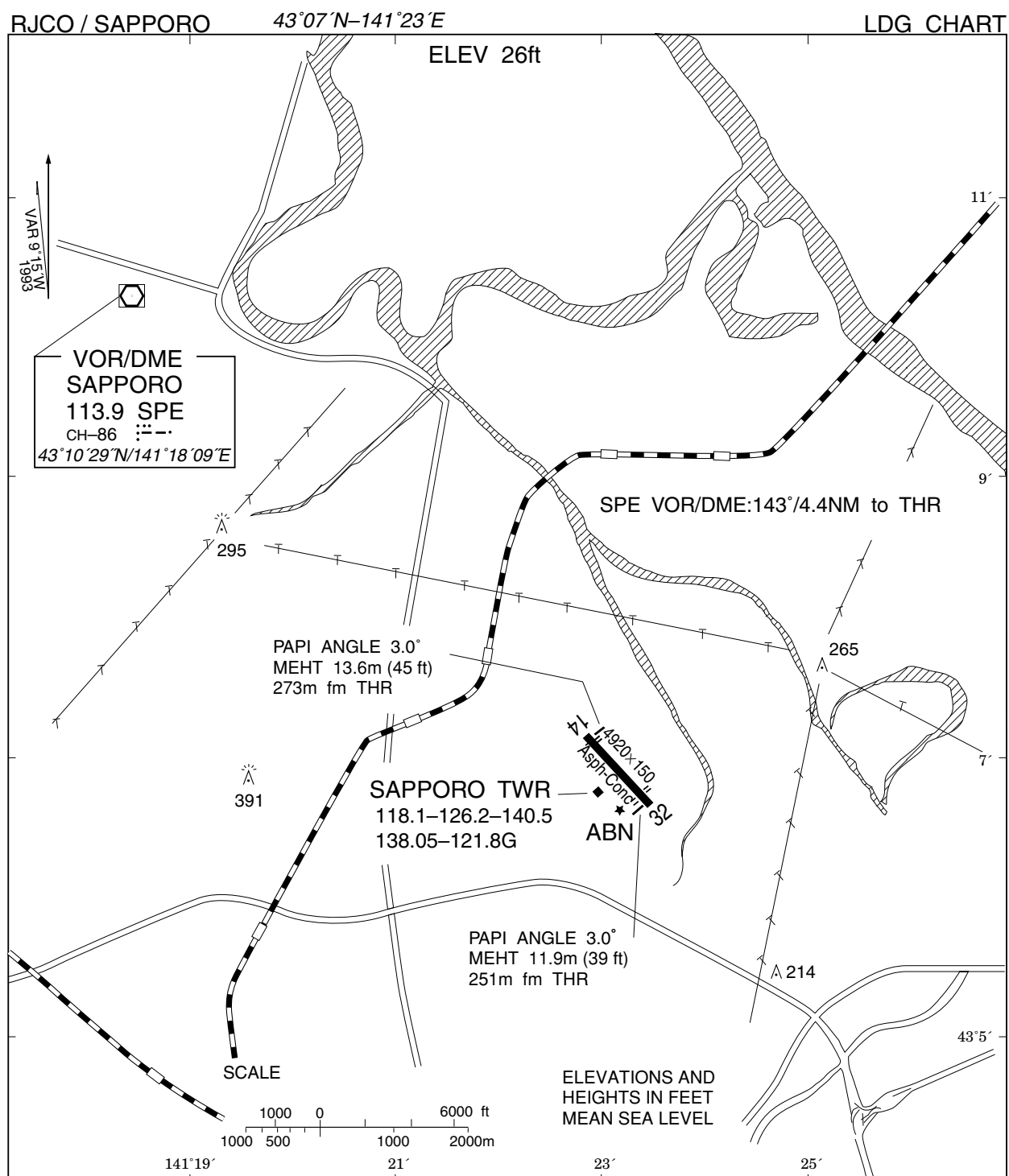
INSTRUMENT APPROACH CHART

RJCO / SAPPORO

RNAV(GNSS) Y RWY32



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Minimum Vectoring Altitude CHART

VAR 9°W (2013)



- ① 1600
- ② 2500
- ③ 1700
- ④ 3000
- ⑤ 2100
- ⑥ 2700
- ⑦ 3200
- ⑧ 4000
- ⑨ 4700
- ⑩ 4000

CENTER : 430703N/1412253E (ARP)

*1 : 430405N/1412108E RADIUS : 3.2NM

*2 : 430520N/1413527E RADIUS : 3NM