

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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SAPPORO REVERSAL FOUR DEPARTURE



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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

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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

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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

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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

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RNAV SID



CHANGE : New PROC .

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STANDARD ARRIVAL CHART-INSTRUMENT

RJCO / SAPPORO

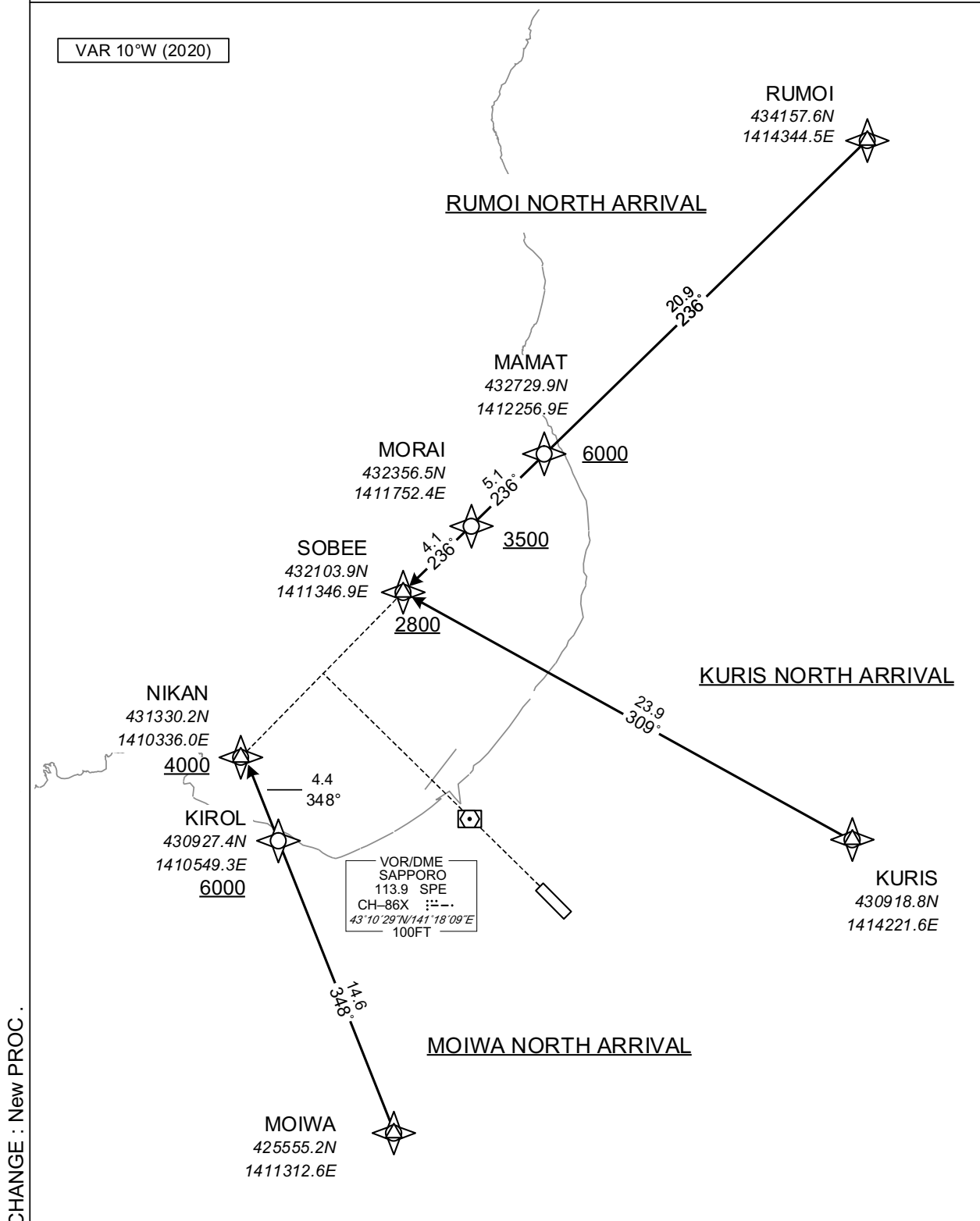
RNAV STAR RWY14

MOIWA NORTH ARRIVAL
RUMOI NORTH ARRIVAL
KURIS NORTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10°W (2020)



STANDARD ARRIVAL CHART-INSTRUMENT

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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

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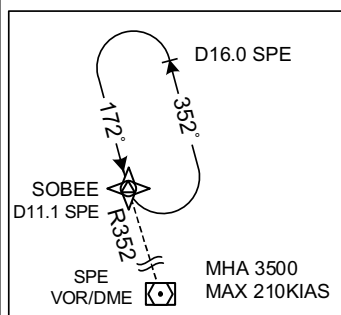
RNAV STAR RWY32

MOIWA SOUTH ARRIVAL
RUMOI SOUTH ARRIVAL
KURIS SOUTH ARRIVAL

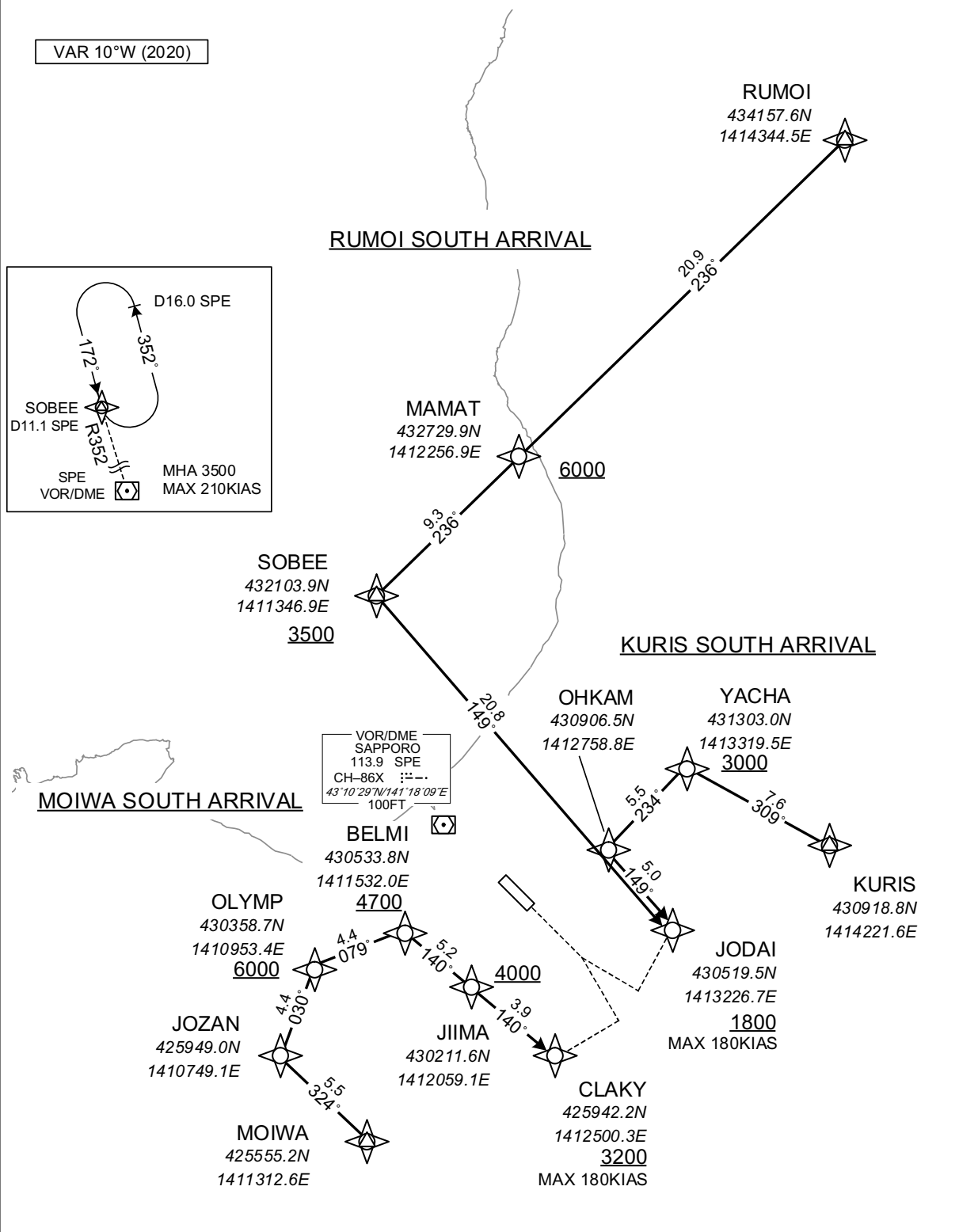
Basic RNP1

Note GNSS required.

VAR 10°W (2020)



CHANGE : New PROC.



STANDARD ARRIVAL CHART-INSTRUMENT

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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

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VOR RWY14



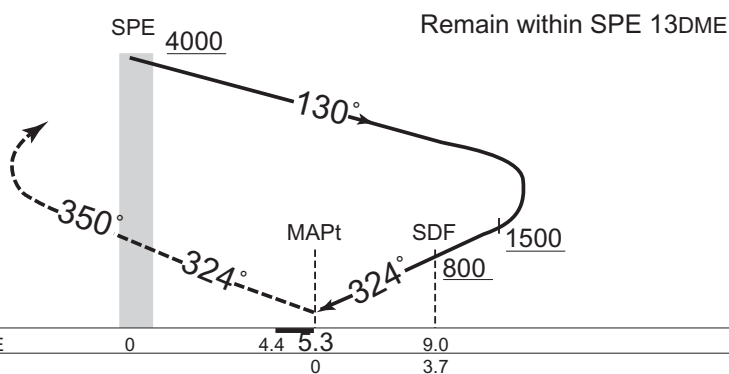
INSTRUMENT APPROACH CHART

RJCO / SAPPORO

VOR RWY32

**MISSED APPROACH**

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.



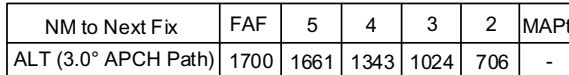
| | | | |
|---------------|---------------------|--------------------|--|
| MINIMA | THR elev. 27 | AD elev. 26 | |
|---------------|---------------------|--------------------|--|

| CAT | MDA(H) | RVR/ CMV | CIRCLING MDA(H) | VIS |
|-----|-----------|-------------|--------------------|------|
| A | 620 (594) | 1500 | 620 (594) | 1600 |
| B | | 2000 | | 2400 |
| C | | — | | — |
| D | — | — | — | — |

Circling to EAST side of RWY only.

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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 | - | - | - | - | - | - |

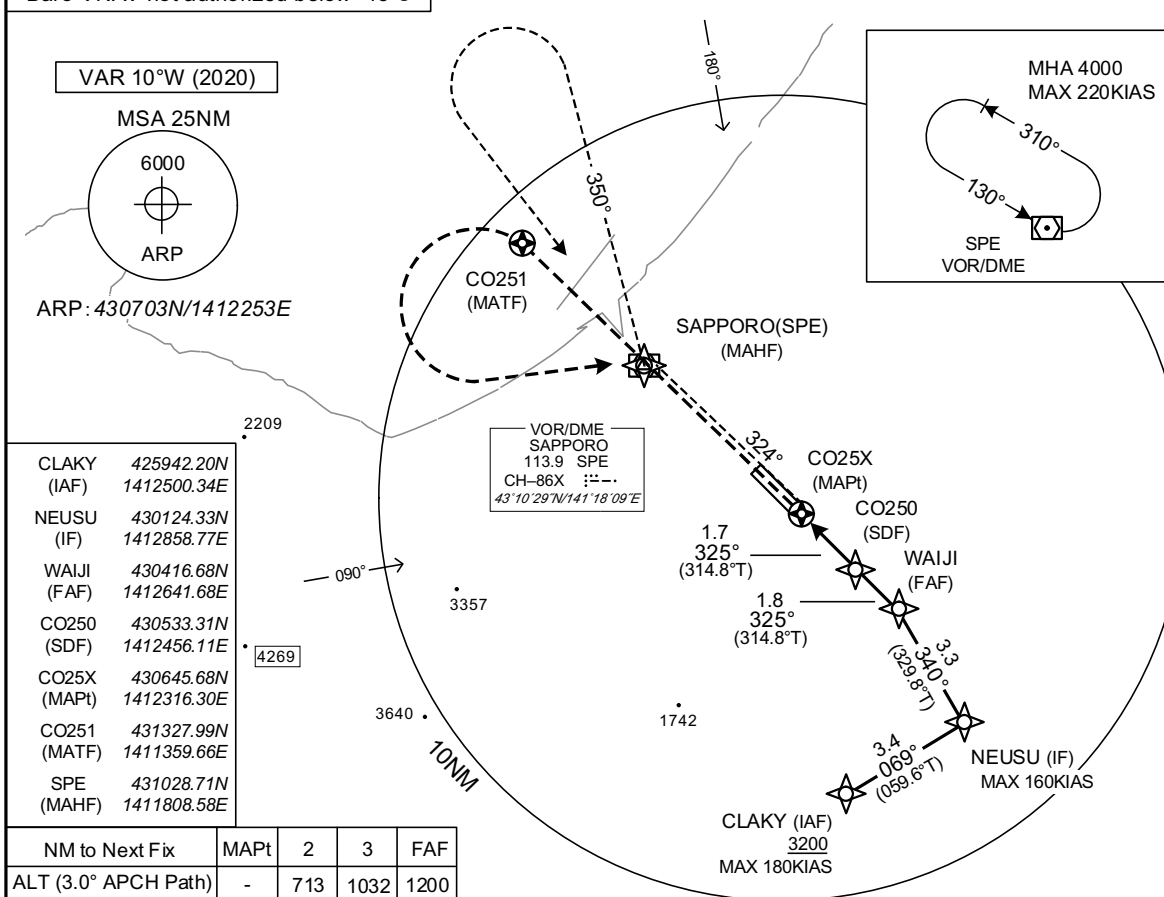
Circling to EAST side of RWY only.

RJCO / SAPPORO

RNAV(GNSS) Z RWY32

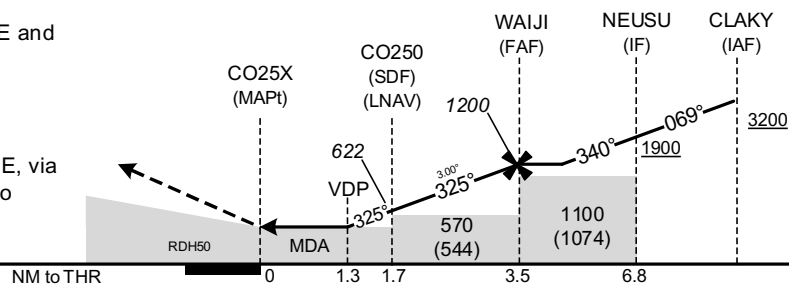
| | | | |
|---|--|---|---------------------------------|
| SAPPORO APP 119.225 - 121.075 315.9 | 1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required. | SAPPORO TWR 118.1 - 126.2 - 140.5 138.05 - 121.8G | GCA AVBL CALL SAPPORO APP |
|---|--|---|---------------------------------|

Baro-VNAV not authorized below -15°C



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.

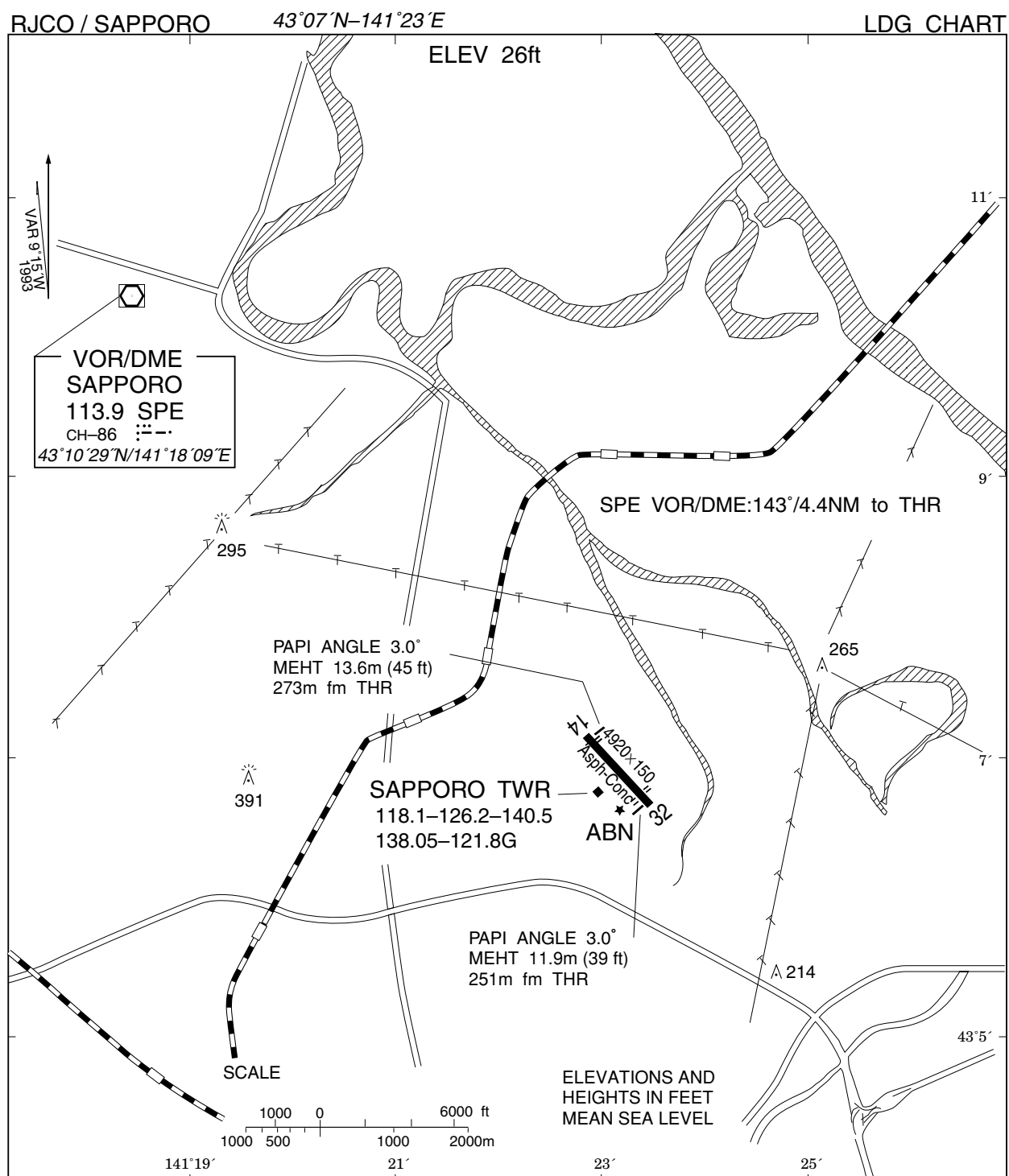
INSTRUMENT APPROACH CHART

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RNAV(GNSS) Y RWY32



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Minimum Vectoring Altitude CHART

VAR 9°W (2013)

