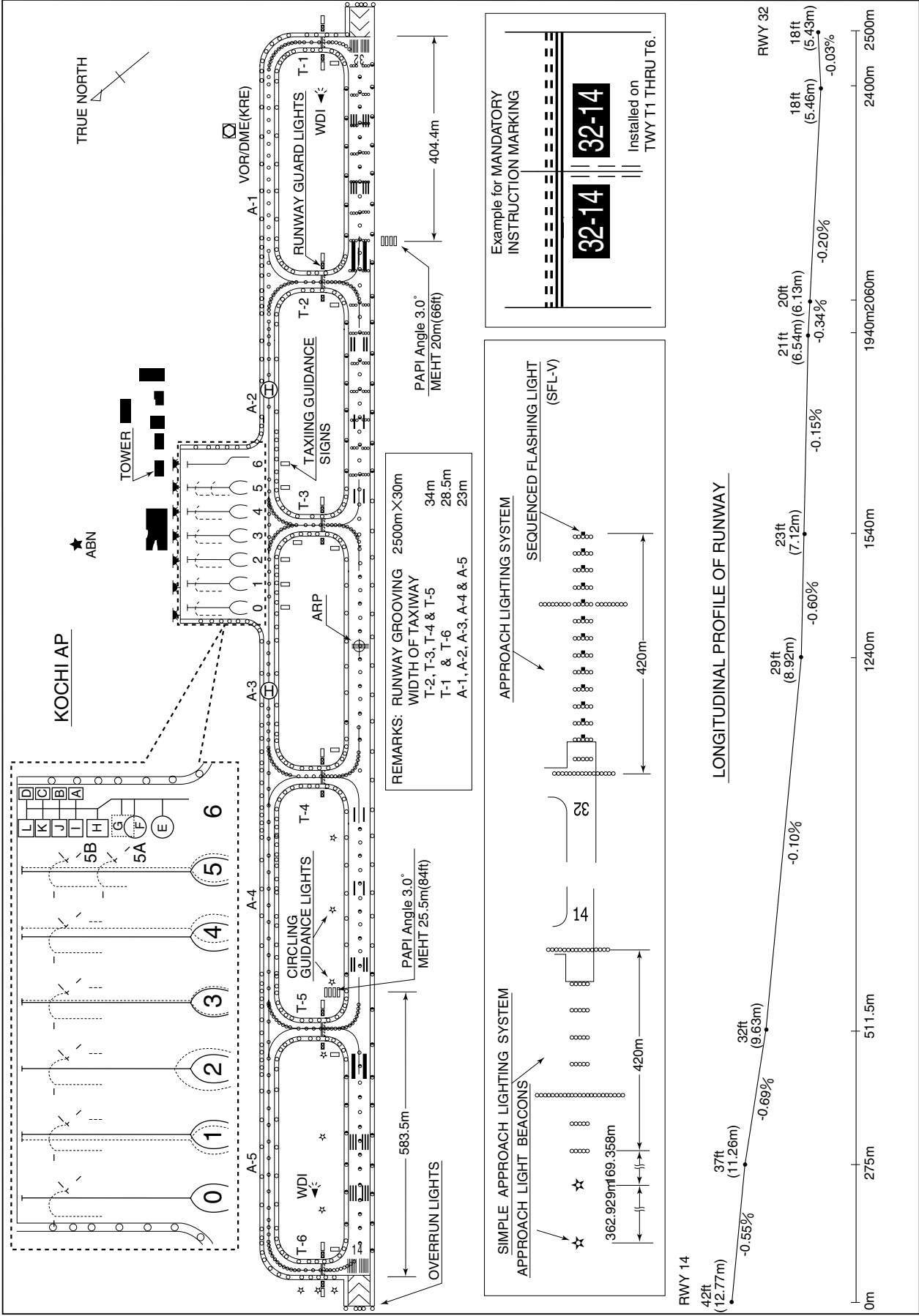


RJOK / KOCHI

AD CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

SHIMIZU SIX DEPARTURE

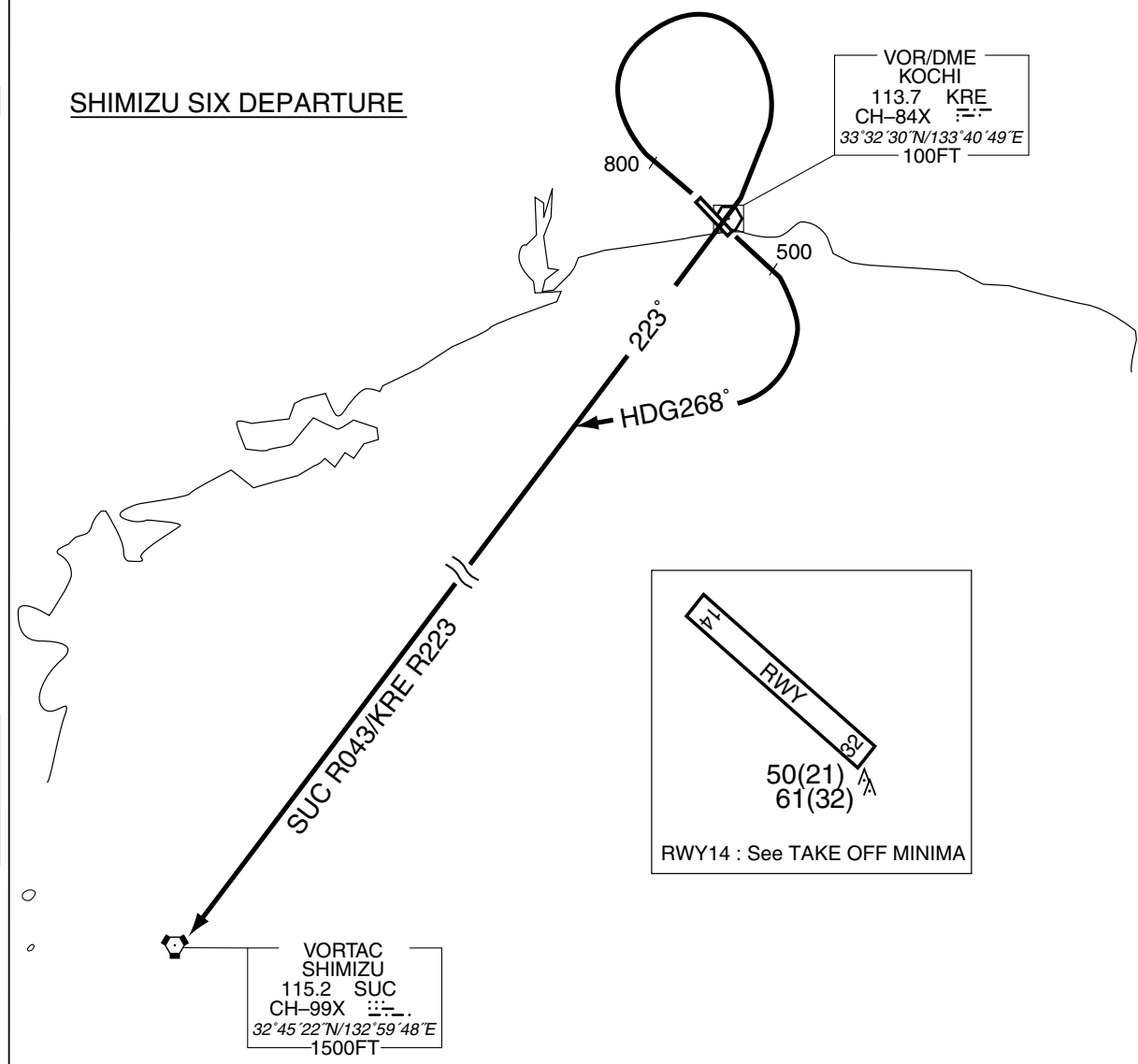
RWY 14 : Climb RWY HDG to 500FT, turn right HDG 268°...

RWY 32 : Climb RWY HDG to 800FT, turn right...

...to intercept and proceed via KRE R223/SUC R043 to SUC VORTAC.

Note RWY32 : 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.

SHIMIZU SIX DEPARTURE

STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

KOCHI REVERSAL FIVE DEPARTURE

RWY 14 : Climb RWY HDG to 500FT, turn right...

RWY 32 : Climb RWY HDG to 800FT, turn right HDG 205°...

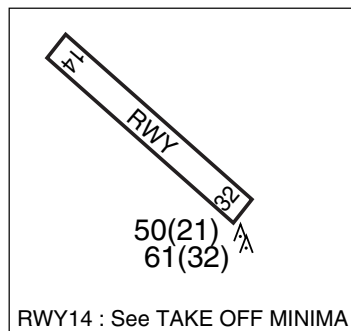
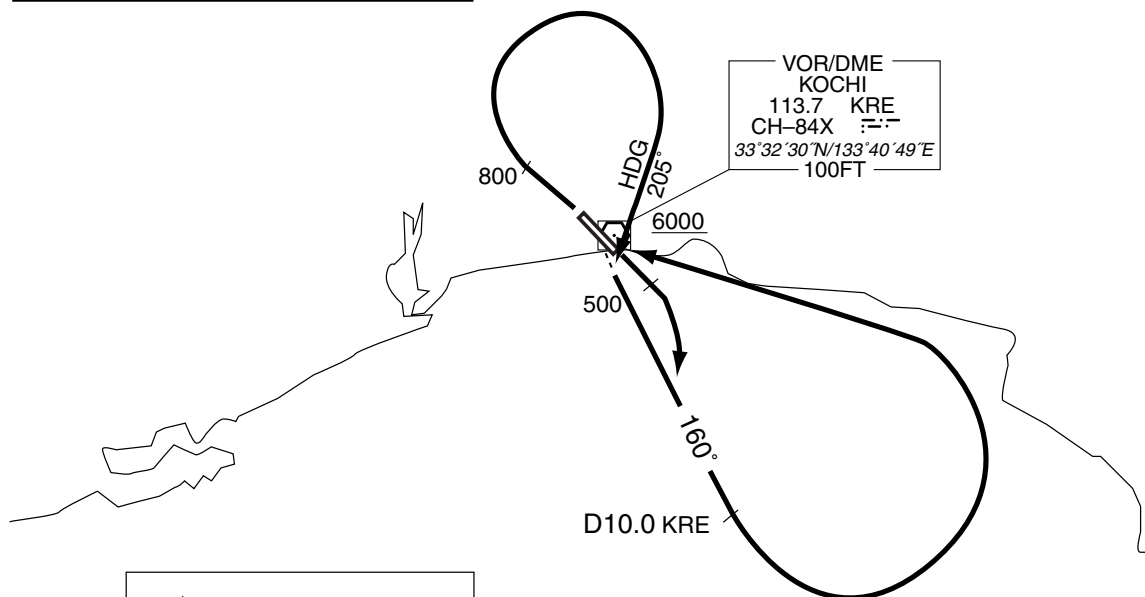
...to intercept and proceed via KRE R160 to KRE 10.0DME, then turn left
proceed to KRE VOR/DME.

Cross KRE VOR/DME at or above 6000FT.

Note RWY32 : 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.

KOCHI REVERSAL FIVE DEPARTURE



STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

URADO REVERSAL THREE DEPARTURE

RWY 14 : Climb RWY HDG to 500FT, turn right HDG 255°...

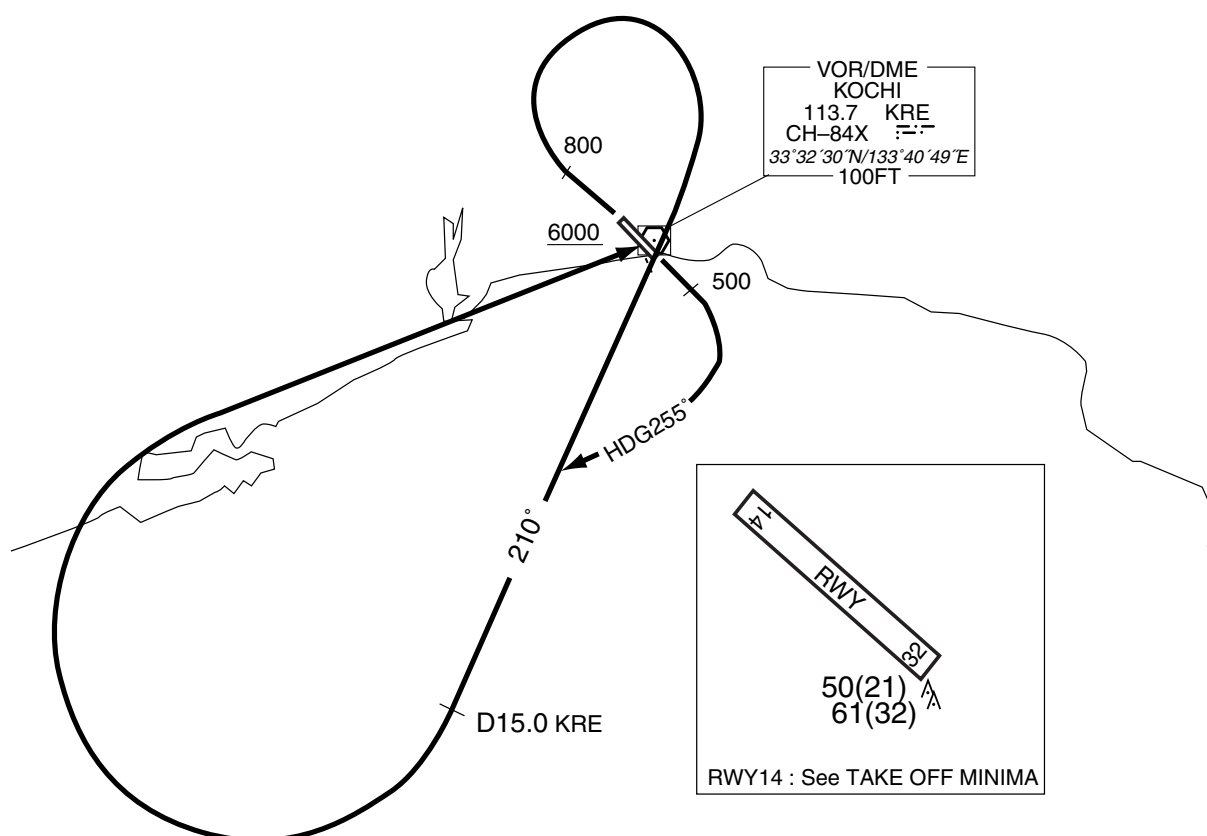
RWY 32 : Climb RWY HDG to 800FT, turn right...

...to intercept and proceed via KRE R210 to KRE 15.0DME, then turn right
proceed to KRE VOR/DME.

Cross KRE VOR/DME at or above 6000FT.

Note RWY32 : 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.

URADO REVERSAL THREE DEPARTURE

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

KARIN ONE RNAV DEPARTURE

RNAV 1

Note 1) DME/DME/IRU or GNSS required.

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll.

2) RADAR service required.

Critical DME

RWY14 : KRE 3.0NM fm DER - 7NM to KARIN
SUC 3.0NM fm DER - 10NM to KARIN
RWY32 : KRE 9NM to OK32C - 10NM to KARIN
SUC 9NM to OK32C - 4NM to OK32C

DME GAP

RWY14 : DER - 3.0NM fm DER
RWY32 : DER - 9NM fm OK32C

Inappropriate NavAids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2009)



| DESIGNATION | COORDINATES |
|-------------|--------------------------|
| OK14A | 33 24 50.3N 133 43 34.2E |
| OK14B | 33 24 02.9N 133 50 40.3E |
| OK32A | 33 36 15.7N 133 44 17.5E |
| OK32C | 33 28 04.1N 133 55 42.6E |
| KARIN | 33 40 24.4N 134 11 14.9E |

Note RWY32: 6.0% climb gradient required up to 2300FT.

RWY14 : Climb on HDG137° at or above 500FT, turn right direct to OK14A, to OK14B, to KARIN at or above 8000FT.

RWY32 : Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32C, to KARIN at or above 8000FT.

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

KARIN ONE RNAV DEPARTURE

RWY14

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 137° (130.6°) | — | +500 | — | — | RNAV1 |
| DF | OK14A | — | — | — | R | — | — | — | RNAV1 |
| TF | OK14B | — | 6.0 | 104° (097.5°) | — | — | — | — | RNAV1 |
| TF | KARIN | — | 23.7 | 053° (046.3°) | — | +8000 | — | — | RNAV1 |

RWY32

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 317° (310.6°) | — | +600 | — | — | RNAV1 |
| DF | OK32A | — | — | — | R | — | — | — | RNAV1 |
| TF | OK32C | — | 12.6 | 138° (130.7°) | — | — | — | — | RNAV1 |
| TF | KARIN | — | 17.9 | 053° (046.3°) | — | +8000 | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

KAIFU ONE RNAV DEPARTURE

RNAV 1

Note 1) DME/DME/IRU or GNSS required.

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll.

2) RADAR service required.

Critical DME

RWY14 : KRE 3.0NM fm DER - 23NM to KAIFU
SUC 3.0NM fm DER - 32NM to KAIFU
RWY32 : KRE 9NM to OK32C - 28NM to KAIFU
SUC 9NM to OK32C - 4NM to OK32C

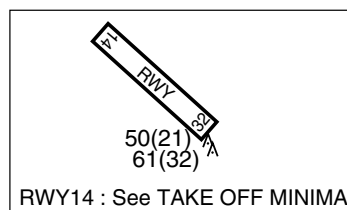
DME GAP

RWY14 : DER - 3.0NM fm DER
RWY32 : DER - 9NM to OK32C

Inappropriate NavAids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2009)



| DESIGNATION | COORDINATES |
|-------------|--------------------------|
| OK14A | 33 24 50.3N 133 43 34.2E |
| OK14B | 33 24 02.9N 133 50 40.3E |
| OK32A | 33 36 15.7N 133 44 17.5E |
| OK32C | 33 28 04.1N 133 55 42.6E |
| KAIFU | 33 36 10.0N 134 32 31.2E |

Note RWY32: 6.0% climb gradient required up to 2300FT.

RWY14 : Climb on HDG137° at or above 500FT, turn right direct to OK14A, to OK14B, to KAIFU.

RWY32 : Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32C, to KAIFU.

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

KAIFU ONE RNAV DEPARTURE

RWY14

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 137° (130.6°) | — | +500 | — | — | RNAV1 |
| DF | OK14A | — | — | — | R | — | — | — | RNAV1 |
| TF | OK14B | — | 6.0 | 104° (097.5°) | — | — | — | — | RNAV1 |
| TF | KAIFU | — | 37.0 | 077° (070.7°) | — | — | — | — | RNAV1 |

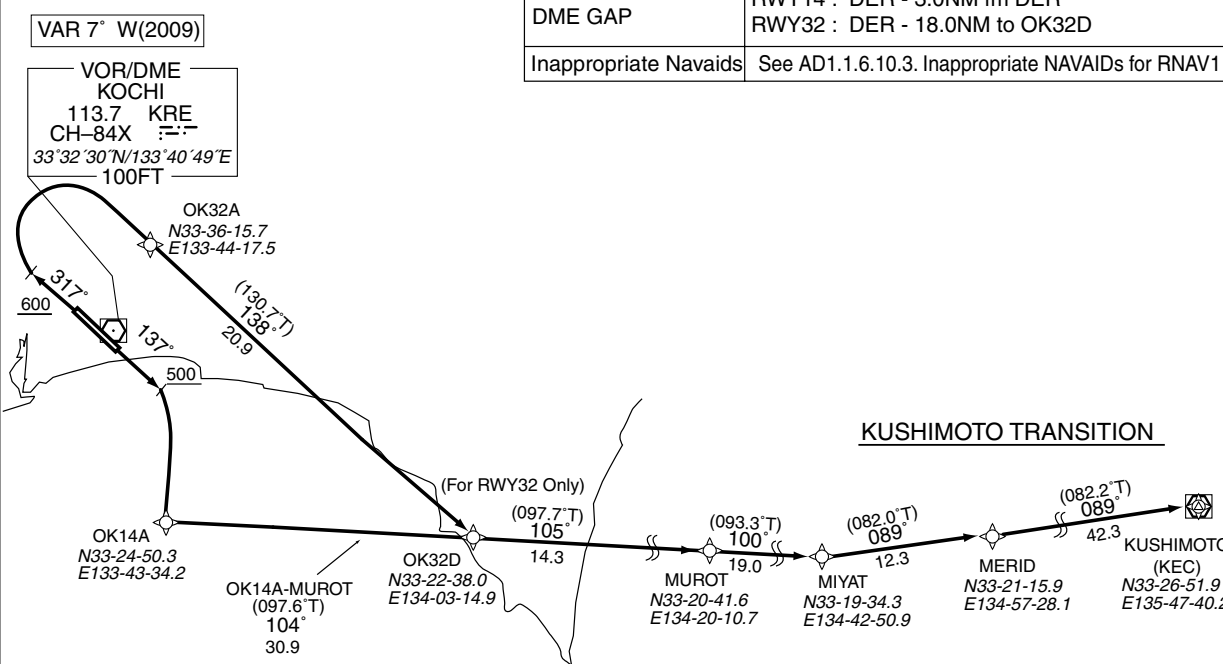
RWY32

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 317° (310.6°) | — | +600 | — | — | RNAV1 |
| DF | OK32A | — | — | — | R | — | — | — | RNAV1 |
| TF | OK32C | — | 12.6 | 138° (130.7°) | — | — | — | — | RNAV1 |
| TF | KAIFU | — | 31.8 | 082° (075.0°) | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID and TRANSITION

| MUROT ONE RNAV DEPARTURE | | RNAV 1 | | | | | | | | | | | | | | | | |
|---|---|--------|-------------|-------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|----------------|--------------------------|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required. | | | | | | | | | | | | | | | | | | |
| Critical DME | - | | | | | | | | | | | | | | | | | |
| DME GAP | RWY14 : DER - 3.0NM fm DER RWY32 : DER - 18.0NM to OK32D | | | | | | | | | | | | | | | | | |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | | | | | | | | | | | | | | | | | |
| <div><div><div>VAR 7° W(2009)</div><div><div>VOR/DME KOCHI 113.7 KRE CH-84X 33°32'30"N/133°40'49"E 100FT</div><div><div>MUROT ONE RNAV DEPARTURE</div><table><tr><th>DESIGNATION</th><th>COORDINATES</th></tr><tr><td>OK14A</td><td>33 24 50.3N 133 43 34.2E</td></tr><tr><td>OK32A</td><td>33 36 15.7N 133 44 17.5E</td></tr><tr><td>OK32D</td><td>33 22 38.0N 134 03 14.9E</td></tr><tr><td>MUROT</td><td>33 20 41.6N 134 20 10.7E</td></tr><tr><td>MIYAT</td><td>33 19 34.3N 134 42 50.9E</td></tr><tr><td>MERID</td><td>33 21 15.9N 134 57 28.1E</td></tr><tr><td>KUSHIMOTO(KEC)</td><td>33 26 51.9N 135 47 40.2E</td></tr></table><div>Note RWY32: 6.0% climb gradient required up to 2300FT.</div></div></div></div></div> | | | DESIGNATION | COORDINATES | OK14A | 33 24 50.3N 133 43 34.2E | OK32A | 33 36 15.7N 133 44 17.5E | OK32D | 33 22 38.0N 134 03 14.9E | MUROT | 33 20 41.6N 134 20 10.7E | MIYAT | 33 19 34.3N 134 42 50.9E | MERID | 33 21 15.9N 134 57 28.1E | KUSHIMOTO(KEC) | 33 26 51.9N 135 47 40.2E |
| DESIGNATION | COORDINATES | | | | | | | | | | | | | | | | | |
| OK14A | 33 24 50.3N 133 43 34.2E | | | | | | | | | | | | | | | | | |
| OK32A | 33 36 15.7N 133 44 17.5E | | | | | | | | | | | | | | | | | |
| OK32D | 33 22 38.0N 134 03 14.9E | | | | | | | | | | | | | | | | | |
| MUROT | 33 20 41.6N 134 20 10.7E | | | | | | | | | | | | | | | | | |
| MIYAT | 33 19 34.3N 134 42 50.9E | | | | | | | | | | | | | | | | | |
| MERID | 33 21 15.9N 134 57 28.1E | | | | | | | | | | | | | | | | | |
| KUSHIMOTO(KEC) | 33 26 51.9N 135 47 40.2E | | | | | | | | | | | | | | | | | |
| <div><div>MUROT ONE RNAV DEPARTURE</div><div>RWY14 : Climb on HDG137° at or above 500FT, turn right direct to OK14A, to MUROT. RWY32 : Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32D, to MUROT.</div></div> | | | | | | | | | | | | | | | | | | |
| <div><div>KUSHIMOTO TRANSITION</div><div>From MUROT to MIYAT, to MERID, to KUSHIMOTO(KEC).</div></div> | | | | | | | | | | | | | | | | | | |
| <div>Note RWY32: 6.0% climb gradient required up to 2300FT. OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.</div> | | | | | | | | | | | | | | | | | | |

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID and TRANSITION

MUROT ONE RNAV DEPARTURE

RWY14

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 137° (130.6°) | — | +500 | — | — | RNAV1 |
| DF | OK14A | — | — | — | R | — | — | — | RNAV1 |
| TF | MUROT | — | 30.9 | 104° (097.6°) | — | — | — | — | RNAV1 |

RWY32

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| VA | — | — | — | 317° (310.6°) | — | +600 | — | — | RNAV1 |
| DF | OK32A | — | — | — | R | — | — | — | RNAV1 |
| TF | OK32D | — | 20.9 | 138° (130.7°) | — | — | — | — | RNAV1 |
| TF | MUROT | — | 14.3 | 105° (097.7°) | — | — | — | — | RNAV1 |

KUSHIMOTO TRANSITION

| Rcmd. Path Terminator | Fix ID (Waypoint Name) | Fly Over | Distance (NM) | MAG Track (TRUE Track) | Turn Direction | Altitude (FT) | Speed Limit (KIAS) | Vertical Angle | Navigation Performance |
|-----------------------|------------------------|----------|---------------|------------------------|----------------|---------------|--------------------|----------------|------------------------|
| IF | MUROT | — | — | — | — | — | — | — | RNAV1 |
| TF | MIYAT | — | 19.0 | 100° (093.3°) | — | — | — | — | RNAV1 |
| TF | MERID | — | 12.3 | 089° (082.0°) | — | — | — | — | RNAV1 |
| TF | KUSHIMOTO (KEC) | — | 42.3 | 089° (082.2°) | — | — | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

OMOGO TWO RNAV DEPARTURE

RNAV 1

Note 1) DME/DME/IRU or GNSS required.

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll.

2) RADAR service required.

Critical DME

RWY14 : KRE 16NM to YUZNO - 7NM to YUZNO
SUC 16NM to YUZNO - 7NM to YUZNO
RWY32 : KRE 4NM to OK32B - 25NM to YUZNO
SUC 4NM to OK32B - 25NM to YUZNO

DME GAP

RWY14 : DER - 16NM to YUZNO
RWY32 : DER - 4NM to OK32B
25NM to YUZNO - 18NM to YUZNO

Inappropriate NavAids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2017)



RWY14 : Climb on HDG138° at or above 500FT, turn right direct to OK14C, to YUZNO, to OMOGO.

RWY32 : Climb on HDG318° at or above 600FT, turn right direct to OK32A, to OK32B, to OK32E, to YUZNO, to OMOGO.

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.1NM 004° FM end of RWY32.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

OMOGO TWO RNAV 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 | — | — | 138 (130.6) | -7.4 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | OK14C | — | — | -7.4 | — | R | — | — | — | RNAV1 |
| 003 | TF | YUZNO | — | 320 (312.9) | -7.4 | 18.8 | — | — | — | — | RNAV1 |
| 004 | TF | OMOGO | — | 296 (288.5) | -7.4 | 4.0 | — | — | — | — | RNAV1 |

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 | — | — | 318 (310.6) | -7.4 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | OK32A | — | — | -7.4 | — | R | — | — | — | RNAV1 |
| 003 | TF | OK32B | — | 138 (130.7) | -7.4 | 7.0 | — | — | — | — | RNAV1 |
| 004 | TF | OK32E | — | 230 (222.8) | -7.4 | 13.3 | — | — | — | — | RNAV1 |
| 005 | TF | YUZNO | — | 320 (312.9) | -7.4 | 25.9 | — | — | — | — | RNAV1 |
| 006 | TF | OMOGO | — | 296 (288.5) | -7.4 | 4.0 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

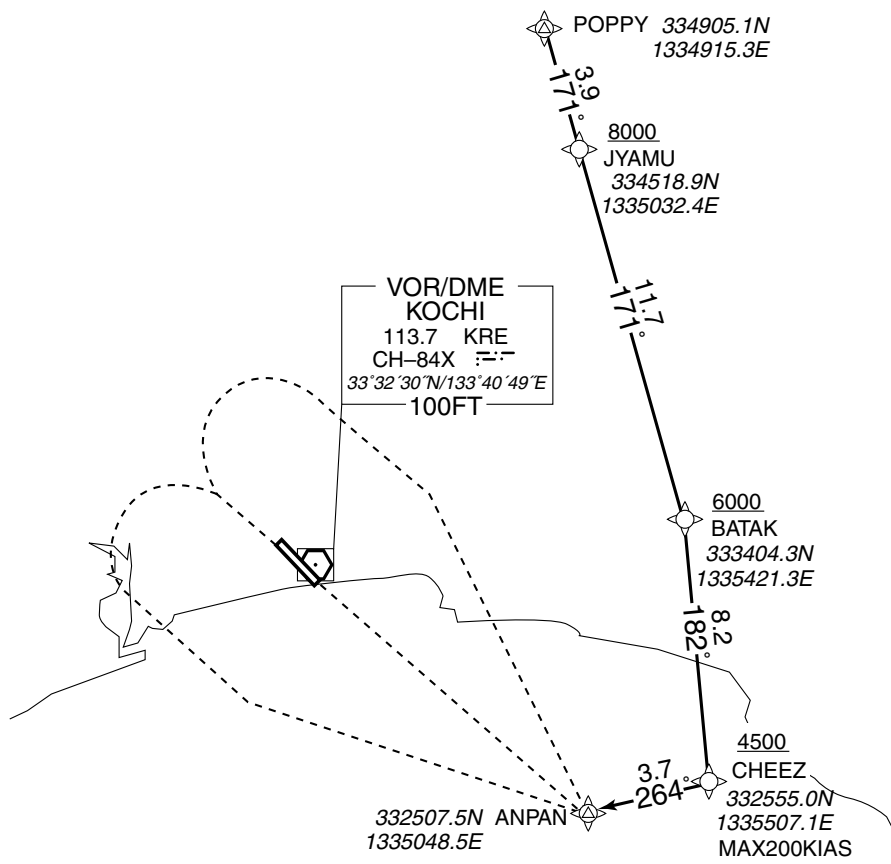
RNAV STAR

YOSAKOI NORTH ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 7° W(2012)



From POPPY, to JYAMU at or above 8000FT, to BATAK at or above 6000FT, to CHEEZ at or above 4500FT, to ANPAN.

| | | |
|------------------------|---|----------------------|
| Critical DME | GBD | POPPY - 2NM to BATAK |
| | SUC | 7NM to BATAK - ANPAN |
| | KRE | 1NM to BATAK - ANPAN |
| DME GAP | - | |
| Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |

| 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 | POPPY | — | — | -6.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | JYAMU | — | 171 (164.2) | -6.9 | 3.9 | — | +8000 | — | — | RNAV1 |
| 003 | TF | BATAK | — | 171 (164.2) | -6.9 | 11.7 | — | +6000 | — | — | RNAV1 |
| 004 | TF | CHEEZ | — | 182 (175.5) | -6.9 | 8.2 | — | +4500 | -200 | — | RNAV1 |
| 005 | TF | ANPAN | — | 264 (257.6) | -6.9 | 3.7 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

RNAV STAR

YOSAKOI EAST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 7° W(2012)



From PANCH, to ANPAN.

| | | |
|------------------------|---|----------------------|
| Critical DME | KRE | PANCH - ANPAN |
| | SUC | 8NM to ANPAN - ANPAN |
| DME GAP | - | |
| Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |

| 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 | PANCH | — | — | -6.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANPAN | — | 326 (318.7) | -6.9 | 18.3 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

RNAV STAR

YOSAKOI SOUTH ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 7° W(2012)



From OKITU, to BIRKN, to ANPAN.

| | | |
|-----------------------|---|-----------------------|
| Critical DME | IWT | OKITU - 26NM to BIRKN |
| | SUC | 12NM to BIRKN - ANPAN |
| | KRE | 12NM to BIRKN - ANPAN |
| DME GAP | 26NM to BIRKN - 12NM to BIRKN | |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |

| 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 | OKITU | — | — | -6.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | BIRKN | — | 064 (057.3) | -6.9 | 29.6 | — | — | -230 | — | RNAV1 |
| 003 | TF | ANPAN | — | 047 (040.6) | -6.9 | 4.5 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

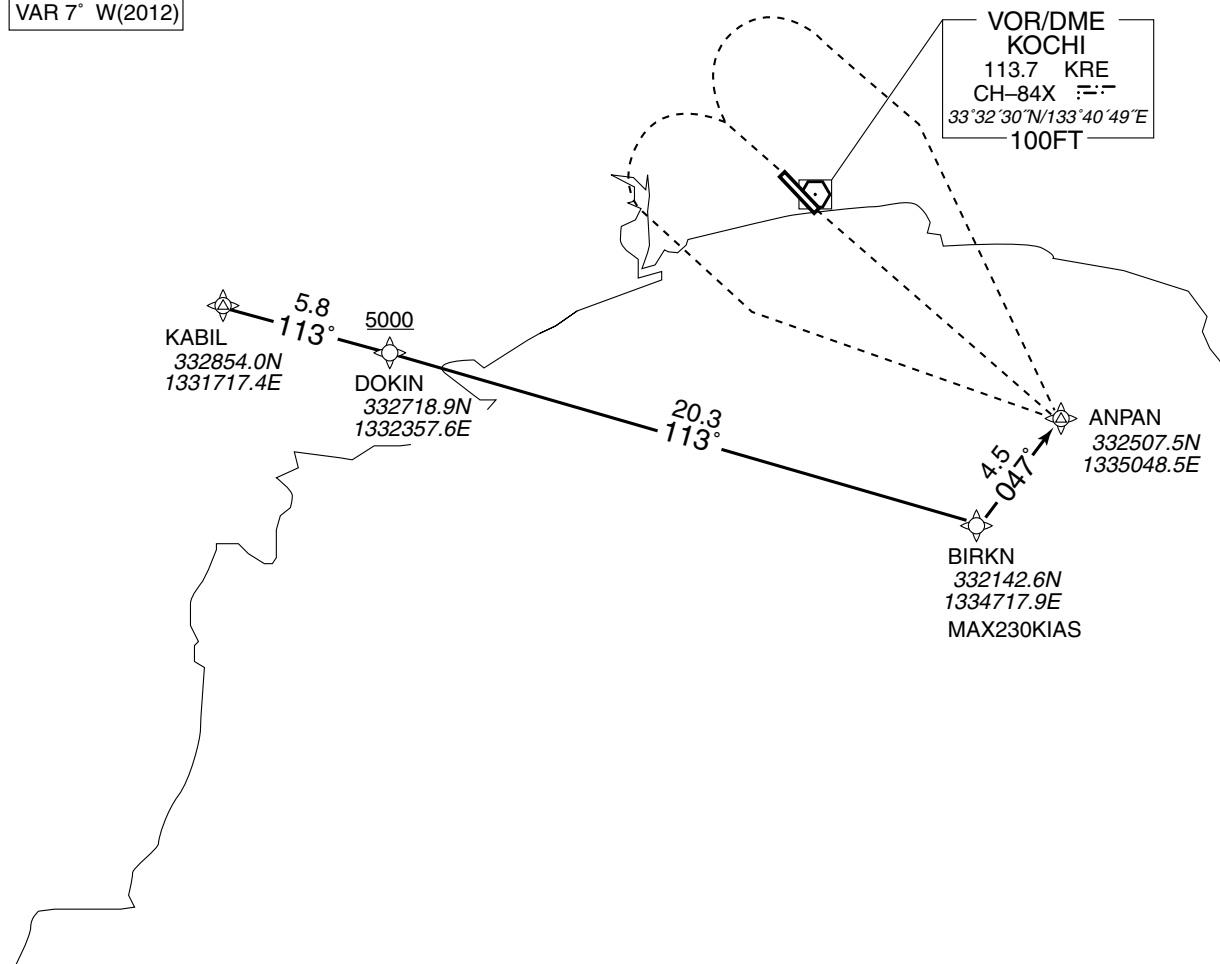
RNAV STAR

YOSAKOI WEST ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 7° W(2012)



From KABIL, to DOKIN at or above 5000FT, to BIRKN, to ANPAN.

| | | |
|------------------------|---|--|
| Critical DME | KRE | 1NM to DOKIN - 16NM to BIRKN 7NM to BIRKN - ANPAN |
| | SUC | 1NM to DOKIN - 16NM to BIRKN 7NM to BIRKN - ANPAN |
| DME GAP | 16NM to BIRKN - 7NM to BIRKN | |
| Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |

| 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 | KABIL | — | — | -6.9 | — | — | — | — | — | RNAV1 |
| 002 | TF | DOKIN | — | 113 (105.9) | -6.9 | 5.8 | — | +5000 | — | — | RNAV1 |
| 003 | TF | BIRKN | — | 113 (105.9) | -6.9 | 20.3 | — | — | -230 | — | RNAV1 |
| 004 | TF | ANPAN | — | 047 (040.6) | -6.9 | 4.5 | — | — | — | — | RNAV1 |

INSTRUMENT APPROACH CHART

RJOK / KOCHI

ILS Z or LOC Z RWY32



MISSED APPROACH

Climb to 800FT on HDG318°, turn left HDG178° to intercept and proceed via KRE R223 to SUSAK and hold at 3000FT. Contact KANSAI APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA

THR elev. 18

AD elev. 29

| CAT | CAT I | | LOC | | CIRCLING | |
|-----|-----------|---------|-----------|---------|-----------|------|
| | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 218 (200) | 700 | 320 (302) | 1200 | 690 (661) | 1600 |
| B | | | | 1300 | | |
| C | | | | 1400 | 760 (731) | 2400 |
| D | | | | 1600 | 830 (801) | 3200 |

Circling to EAST side of RWY only.

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

CHANGE : VAR

RJOK / KOCHI

ILS Y or LOC Y RWY32

| | | | |
|---------------|------------------------------------|----------------|-------------|
| KANSAI APP | ILS - LOC 110.9 IKR 330.8 | KOCHI TOWER | RADAR AVBL |
| 125.0 – 124.8 | ILS - GP 330.8 ILS - DME CH-46X | 118.75 – 126.2 | ATIS 126.45 |



Climb to 800FT on HDG318°, turn left HDG178° to intercept and proceed via KRE R223 to SUSAK and hold at 3000FT. Contact KANSAI APP.



Timing not authorized for defining the MAPt.

| | | | | |
|------------|-----|-----|-----|-----|
| DME to IKR | 0.6 | 1.0 | 4.6 | |
| NM to THR | 0 | 0.4 | 0.8 | 4.4 |

Missed APCH climb gradient MNM 5.0%

| | | |
|--------|--------------|-------------|
| MINIMA | THR elev. 18 | AD elev. 29 |
|--------|--------------|-------------|

| CAT | CAT I | | LOC | | CIRCLING | |
|-----|-----------|-------------|-----------|-------------|-----------|------|
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 218 (200) | 700 | 320 (302) | 1200 | 690 (661) | 1600 |
| B | | | | 1300 | | |
| C | | | | 1400 | 760 (731) | 2400 |
| D | | | | 1600 | 830 (801) | 3200 |

Circling to EAST side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : VAR

INSTRUMENT APPROACH CHART

RJOK / KOCHI

VOR RWY32



MISSED APPROACH

Climb via KRE R324 to 500FT,
turn left HDG178° to intercept
and proceed via KRE R223 to
SUSAK and hold at 3000FT.
Contact KANSAI APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.5%

MINIMA THR elev. 18 AD elev. 29

| CAT | MINIMA | | CIRCLING | |
|-----|-----------|---------|-----------|------|
| | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 360 (342) | 1200 | 690 (661) | 1600 |
| B | 400 (382) | 1300 | | |
| C | 430 (412) | 1400 | 760 (731) | 2400 |
| D | 450 (432) | 1600 | 830 (801) | 3200 |

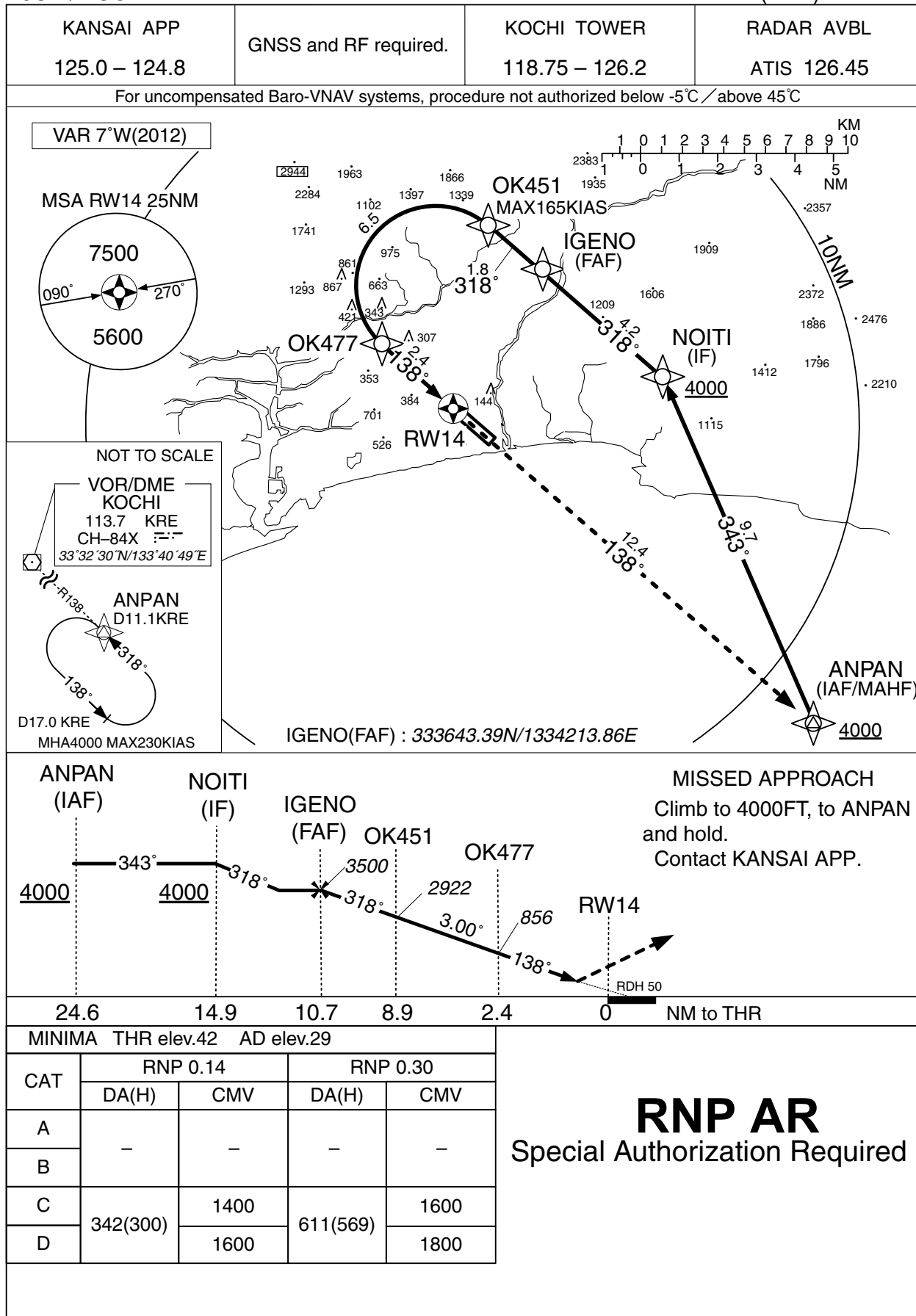
Circling to EAST side of RWY only.

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

INSTRUMENT APPROACH CHART

RJOK / KOCHI

RNAV(RNP) Z RWY14



INSTRUMENT APPROACH CHART

RJOK / KOCHI

RNAV(RNP) Z RWY14

RNAV(RNP) Z RWY14Coding 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 | ANPAN | — | — | -6.9 | — | — | +4000 | — | — | — |
| 002 | TF | NOITI | — | 343 (335.9) | -6.9 | 9.7 | — | +4000 | — | — | 1.0 |
| 003 | TF | IGENO | — | 318 (310.7) | -6.9 | 4.2 | — | 3500 | — | — | 1.0 |
| 004 | TF | OK451 | — | 318 (310.7) | -6.9 | 1.8 | — | 2922 | -165 | -3.00 | 0.14 0.30 |
| 005 | RF Center: OKRF1 r=2.07NM | OK477 | — | — | -6.9 | 6.5 | L | 856 | — | -3.00 | 0.14 0.30 |
| 006 | TF | RW14 | Y | 138 (130.6) | -6.9 | 2.4 | — | 92 | — | -3.00/50 | 0.14 0.30 |
| 007 | TF | ANPAN | — | 138 (130.6) | -6.9 | 12.4 | — | 4000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| ANPAN | 332507.54N/1335048.52E | OKRF1 | 333620.13N/1333858.11E |
| NOITI | 333400.03N/1334602.07E | | |
| IGENO | 333643.39N/1334213.86E | | |
| OK451 | 333754.48N/1334034.43E | | |
| OK477 | 333445.76N/1333721.85E | | |
| RW14 | 333312.04N/1333932.98E | | |

INSTRUMENT APPROACH CHART

RJOK / KOCHI

RNAV(RNP) Y RWY14



INSTRUMENT APPROACH CHART

RJOK / KOCHI

RNAV(RNP) Y RWY14

RNAV(RNP) Y RWY14Coding 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 | ANPAN | — | — | -6.9 | — | — | +4000 | — | — | — |
| 002 | TF | KATUO | — | 292 (285.5) | -6.9 | 9.7 | — | +4000 | — | — | 1.0 |
| 003 | TF | TATKY | — | 318 (310.6) | -6.9 | 4.2 | — | 3500 | — | — | 1.0 |
| 004 | TF | OK481 | — | 318 (310.6) | -6.9 | 1.8 | — | 2922 | -165 | -3.00 | 0.14 0.30 |
| 005 | RF Center: OKRF2 r=2.07NM | OK477 | — | — | -6.9 | 6.5 | R | 856 | — | -3.00 | 0.14 0.30 |
| 006 | TF | RW14 | Y | 138 (130.6) | -6.9 | 2.4 | — | 92 | — | -3.00/50 | 0.14 0.30 |
| 007 | TF | ANPAN | — | 138 (130.6) | -6.9 | 12.4 | — | 4000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| ANPAN | 332507.54N/1335048.52E | OKRF2 | 333311.37N/1333545.65E |
| KATUO | 332742.79N/1333937.02E | | |
| TATKY | 333025.96N/1333548.91E | | |
| OK481 | 333136.96N/1333409.51E | | |
| OK477 | 333445.76N/1333721.85E | | |
| RW14 | 333312.04N/1333932.98E | | |

RJOK / KOCHI

Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|---------------------|---------------------|--|
| 工 科 大 Koukadai | 035°/ 5.2NM | 高知工科大学 Kochi University of Technology |
| 芸 西 Geisei | 113°/ 5.9NM | 観光ホテル Hotel |
| 桂 浜 Katsurahama | 248°/ 6.0NM | 浦戸大橋 Bridge |
| 高 知 市 Kochi city | 290°/ 6.5NM | JR高知駅 Station |
| 植 野 Ueno | 355°/ 5.0NM | ゴルフ場 Golf course |
| 安 芸 Aki | 110°/12.5NM | 安芸川河口 River mouth |
| 横 浪 Yokonami | 243°/12.9NM | 国民宿舎 Hotel |



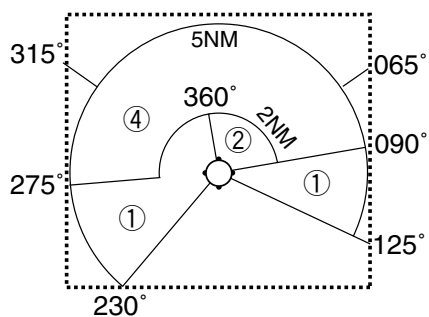
RJOK / KOCHI

Minimum Vectoring Altitude CHART

VAR 7°W (2009)



- ① 2000
- ② 2300
- ③ 2500
- ④ 3000
- ⑤ 3500
- ⑥ 4000
- ⑦ 4500



CENTER : 333245N/1334039E (RADAR SITE)