

## AD CHART

**KOCHI AP**

TRUE NORTH

ABN

TOWER

WIND SPEED METER

VOR/DME(KRE)

CEILOMETER

RVR WDI

RUNWAY GUARD LIGHTS

T-1

T-2

T-3

T-4

T-5

T-6

WDI

ARP

TAXIING GUIDANCE SIGNS

CIRCLING GUIDANCE LIGHTS

WIND SPEED METER

MEHT 25.5m(84ft)

PAPI Angle 3.0°

OVERRUN LIGHTS

583.5m

404.4m

PAPI Angle 3.0°

MEHT 20m(66ft)

REMARKS: RUNWAY GROOVING 2500m x 30m  
WIDTH OF TAXIWAY  
T-2, T-3, T-4 & T-5 34m  
T-1 & T-6 28.5m  
A-1, A-2, A-3, A-4 & A-5 23m

Example for MANDATORY INSTRUCTION MARKING

32-14

32-14

Installed on TWY T1 THRU T6.

APPROACH LIGHTING SYSTEM

SEQUENCED FLASHING LIGHT (SFL-V)

420m

420m

420m

362.929m(169.358m)

37ft (11.26m)

32ft (9.63m)

0.55%

0.69%

0.10%

0.60%

0.15%

0.34%

0.20%

0.03%

LONGITUDINAL PROFILE OF RUNWAY

RWY 14

42ft (12.77m)

37ft (11.26m)

32ft (9.63m)

0.55%

0.69%

0.10%

0.60%

0.15%

0.34%

0.20%

0.03%

RWY 32

18ft (5.43m)

18ft (5.46m)

0.03%

0m

275m

511.5m

1240m

1540m

1940m

2060m

2400m

2500m

STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

SHIMIZU SEVEN 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.

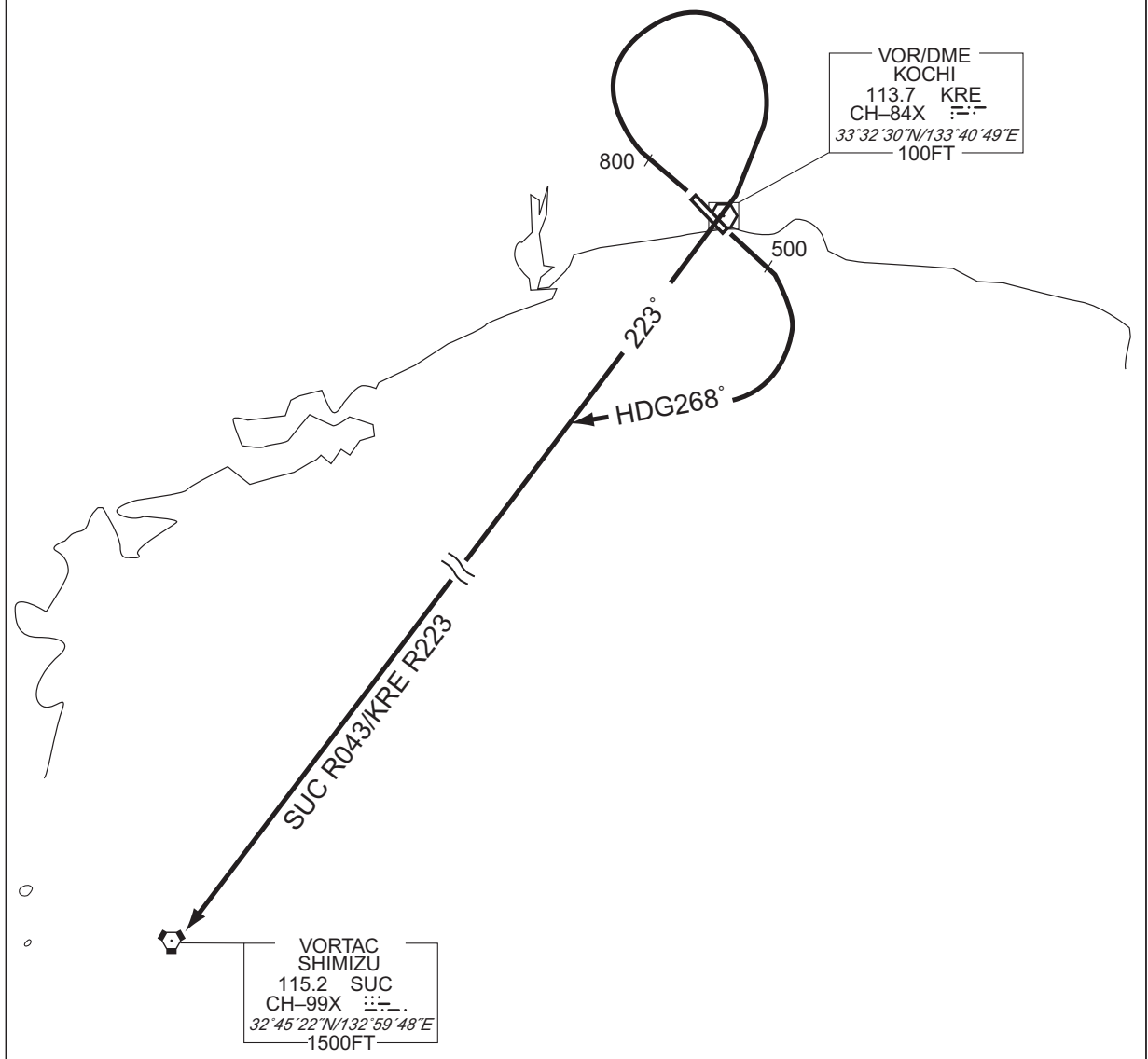
Note RWY14 : 5.0% climb gradient required up to 500FT.

OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.

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

OBST ALT 2165FT located at 6.6NM 359° FM end of RWY32.

CHANGE : PROC renamed. Note RWY14 added.



## STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

KOCHI REVERSAL SIX 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, turn left  
proceed to KRE VOR/DME.

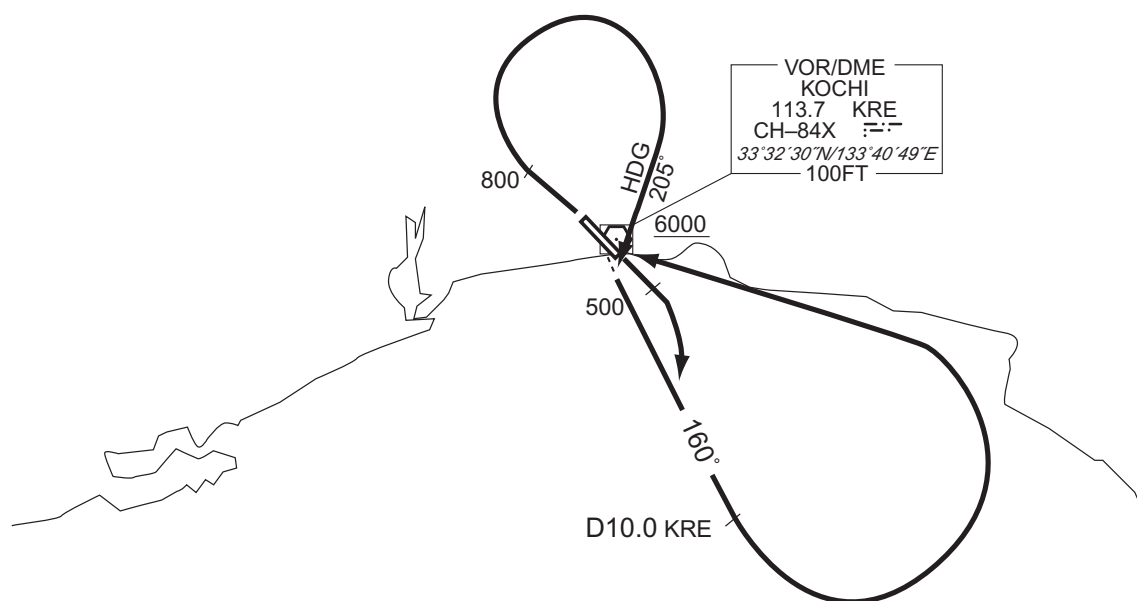
Cross KRE VOR/DME at or above 6000FT.

Note RWY14 : 5.0% climb gradient required up to 500FT.

OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.

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

OBST ALT 2165FT located at 6.6NM 359° FM end of RWY32.



CHANGE : PROC renamed. Note RWY14 added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOK / KOCHI

SID

URADO REVERSAL FOUR DEPARTURE

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

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

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

Cross KRE VOR/DME at or above 6000FT.

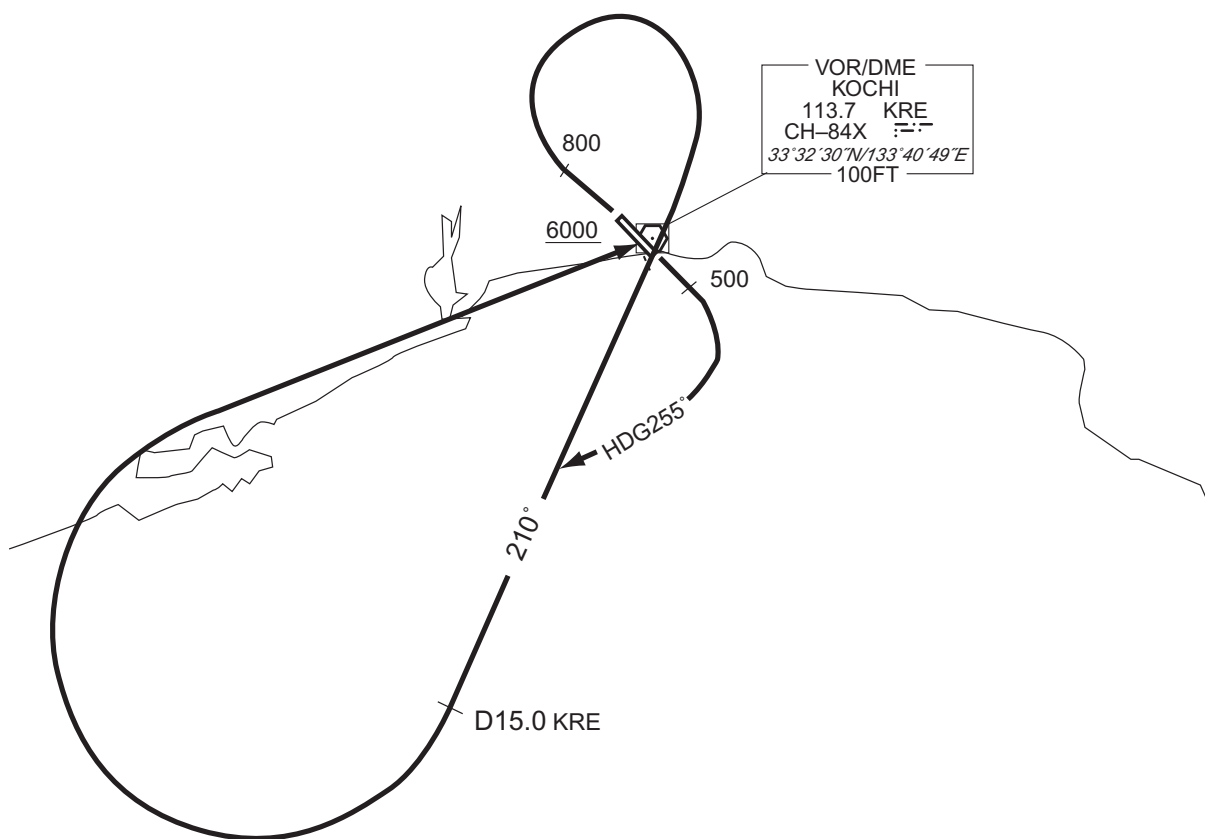
Note RWY14 : 5.0% climb gradient required up to 500FT.

OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.

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

OBST ALT 2165FT located at 6.6NM 359° FM end of RWY32.

CHANGE : PROC renamed. Note RWY14 added.



## STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

## KAIFU TWO 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

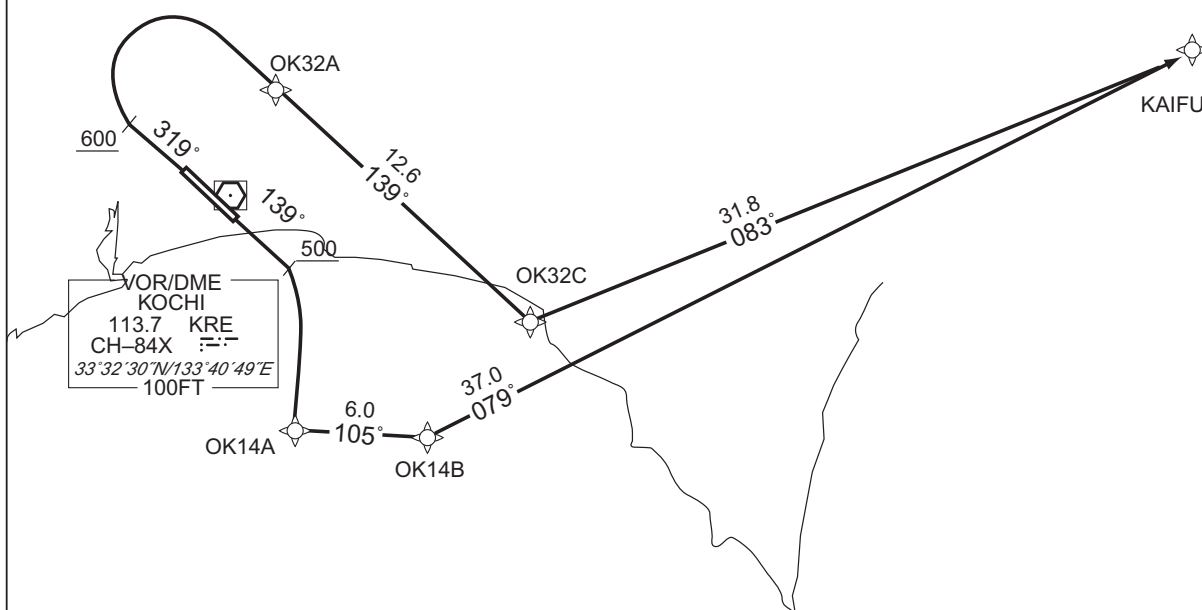
DME GAP

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

Inappropriate NavAids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W



RWY14 : Climb on HDG139° at or above 500FT, turn right direct to OK14A, to OK14B, to KAIFU.

RWY32 : Climb on HDG319° at or above 600FT, turn right direct to OK32A, to OK32C, to KAIFU.

Note RWY14 : 5.0% climb gradient required up to 500FT.

OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.

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

OBST ALT 1970FT located at 6.1NM 005° FM end of RWY32.

CHANGE : PROC renamed. VAR. PROC course. Note RWY14 added.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

KAIFU TWO 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              | —                   | —        | 139 (130.6)   | -7.9               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | OK14A               | —        | —             | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK14B               | —        | 105 (097.5)   | -7.9               | 6.0           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | KAIFU               | —        | 079 (070.7)   | -7.9               | 37.0          | —              | —             | —            | —              | 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              | —                   | —        | 319 (310.6)   | -7.9               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF              | OK32A               | —        | —             | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK32C               | —        | 139 (130.7)   | -7.9               | 12.6          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | KAIFU               | —        | 083 (075.0)   | -7.9               | 31.8          | —              | —             | —            | —              | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| OK14A               | 332450.3N / 1334334.2E | KAIFU               | 333610.0N / 1343231.2E |
| OK14B               | 332402.9N / 1335040.3E |                     |                        |
| OK32A               | 333615.7N / 1334417.5E |                     |                        |
| OK32C               | 332804.1N / 1335542.6E |                     |                        |

CHANGE : PROC renamed. PROC course. VAR added. Navigation Specification. Waypoint Coordinates added.

RJOK / KOCHI

## RNAV SID and TRANSITION

RWY14 : Climb on HDG139° at or above 500FT, turn right direct to OK14A, to MUROT.  
 RWY32 : Climb on HDG319° at or above 600FT, turn right direct to OK32A, to OK32D, to MUROT.  
 Note RWY14 : 5.0% climb gradient required up to 500FT.  
                   OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.  
 RWY32 : 6.0% climb gradient required up to 2300FT.  
                   OBST ALT 1970FT located at 6.1NM 005° FM end of RWY32.

From MUROT, to MIYAT, to MERID, to KEC.

CHANGE : PROC renamed. Critical DME, VAR, Note RWY14 added. PROC course.

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID and TRANSITION

MUROT TWO 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              | —                   | —        | 139<br>(130.6) | -7.9               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | OK14A               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | MUROT               | —        | 105<br>(097.6) | -7.9               | 30.9          | —              | —             | —            | —              | 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              | —                   | —        | 319<br>(310.6) | -7.9               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF              | OK32A               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK32D               | —        | 139<br>(130.7) | -7.9               | 20.9          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | MUROT               | —        | 106<br>(097.7) | -7.9               | 14.3          | —              | —             | —            | —              | RNAV1                    |

KUSHIMOTO TRANSITION

| 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              | MUROT               | —        | —              | -7.9               | —             | —              | —             | —            | —              | RNAV1                    |
| 002           | TF              | MIYAT               | —        | 101<br>(093.3) | -7.9               | 19.0          | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | MERID               | —        | 090<br>(082.0) | -7.9               | 12.3          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | KEC                 | —        | 090<br>(082.2) | -7.9               | 42.3          | —              | —             | —            | —              | RNAV1                    |

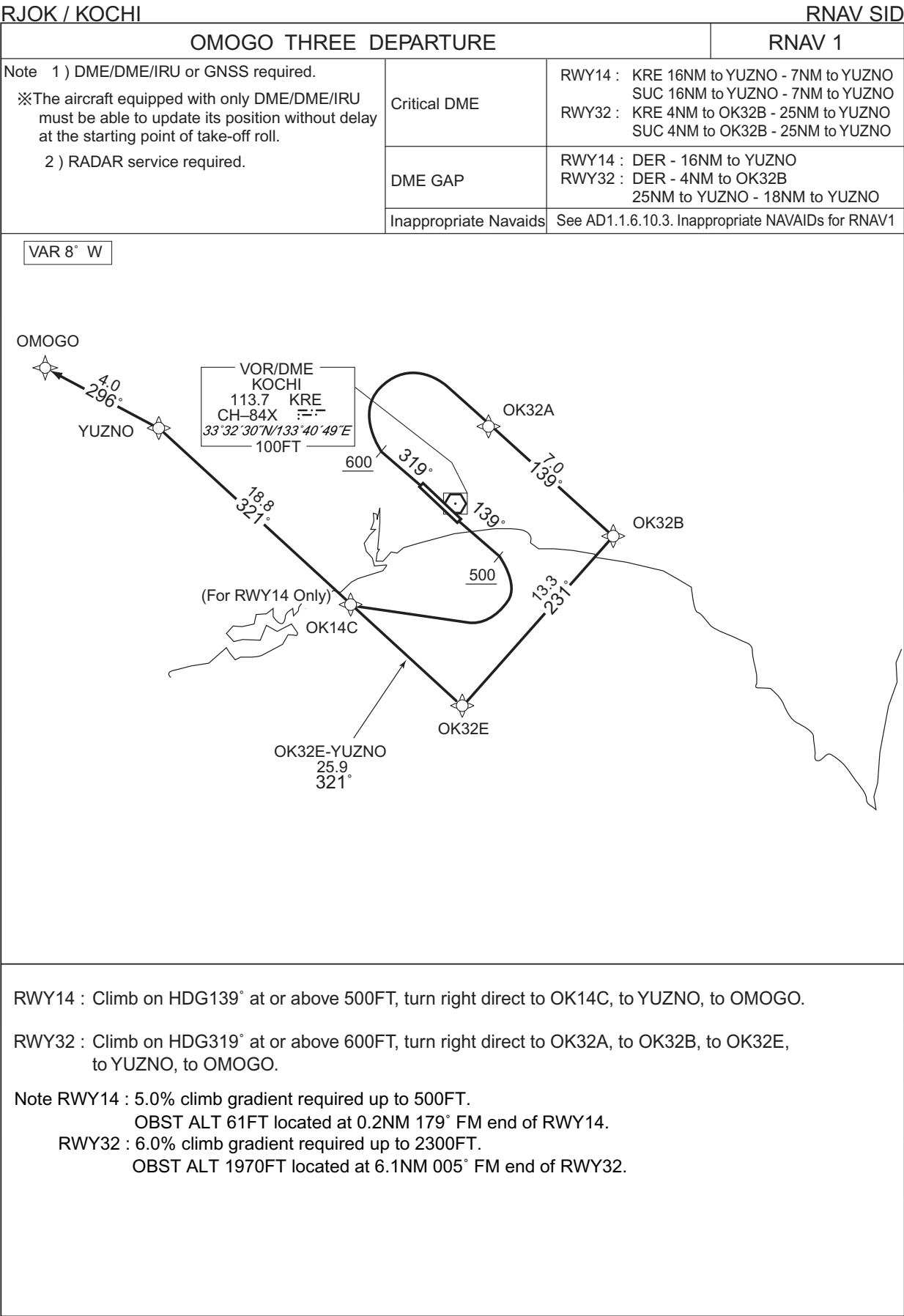
Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| OK14A               | 332450.3N / 1334334.2E | MIYAT               | 331934.3N / 1344250.9E |
| OK32A               | 333615.7N / 1334417.5E | MERID               | 332115.9N / 1345728.1E |
| OK32D               | 332238.0N / 1340314.9E | KEC                 | 332651.9N / 1354740.2E |
| MUROT               | 332041.6N / 1342010.7E |                     |                        |

CHANGE : PROC renamed. PROC course. VAR added. Navigation Specification. Waypoint Coordinates added.



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

OMOGO THREE 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              | —                   | —        | 139<br>(130.6) | -7.9               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | OK14C               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | YUZNO               | —        | 321<br>(312.9) | -7.9               | 18.8          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | OMOGO               | —        | 296<br>(288.5) | -7.9               | 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              | —                   | —        | 319<br>(310.6) | -7.9               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF              | OK32A               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK32B               | —        | 139<br>(130.7) | -7.9               | 7.0           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | OK32E               | —        | 231<br>(222.8) | -7.9               | 13.3          | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | YUZNO               | —        | 321<br>(312.9) | -7.9               | 25.9          | —              | —             | —            | —              | RNAV1                    |
| 006           | TF              | OMOGO               | —        | 296<br>(288.5) | -7.9               | 4.0           | —              | —             | —            | —              | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| OK14C               | 332650.1N / 1333334.8E | YUZNO               | 333934.0N / 1331704.7E |
| OK32A               | 333615.7N / 1334417.5E | OMOGO               | 334049.7N / 1331233.1E |
| OK32B               | 333143.9N / 1335036.8E |                     |                        |
| OK32E               | 332159.2N / 1333949.8E |                     |                        |

CHANGE : PROC renamed. PROC course. VAR: Waypoint Coordinates added.

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

## RUSEV ONE 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 - 10.0NM to OK400  
SUC 3.0NM FM DER - 10.0NM to OK400  
5.0NM to OK400 - 13.0NM to RUSEV  
RWY32 : KRE 9.0NM to OK32C - OK32C  
SUC 9.0NM to OK32C - 4.0NM to OK32C  
5.0NM to OK400 - 13.0NM to RUSEV

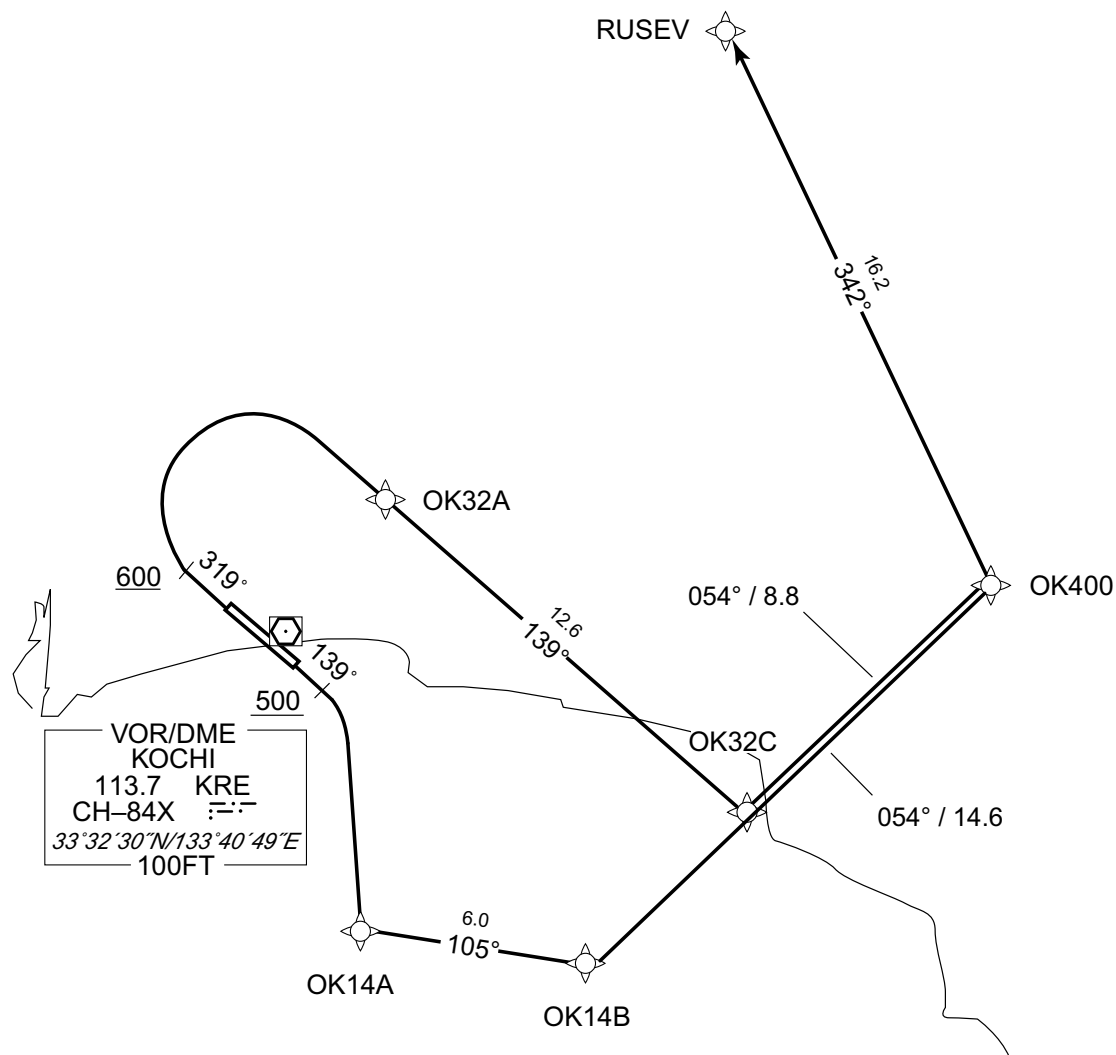
DME GAP

RWY14 : DER - 3.0NM FM DER  
RWY32 : DER - 9.0NM to OK32C

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W



RWY14 : Climb on HDG139° at or above 500FT, turn right direct to OK14A, to OK14B, to OK400, to RUSEV.

RWY32 : Climb on HDG319° at or above 600FT, turn right direct to OK32A, to OK32C, to OK400, to RUSEV.

Note RWY14 : 5.0% climb gradient required up to 1200FT.

OBST ALT 61FT located at 0.2NM 179° FM end of RWY14.

OBST ALT 4560FT located at 16.9NM 068° FM end of RWY14.

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

OBST ALT 1970FT located at 6.1NM 005° FM end of RWY32.

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOK / KOCHI

RNAV SID

RUSEV 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              | —                   | —        | 139<br>(130.6) | -7.9               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | OK14A               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK14B               | —        | 105<br>(097.5) | -7.9               | 6.0           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | OK400               | —        | 054<br>(046.3) | -7.9               | 14.6          | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | RUSEV               | —        | 342<br>(334.2) | -7.9               | 16.2          | —              | —             | —            | —              | 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              | —                   | —        | 319<br>(310.6) | -7.9               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF              | OK32A               | —        | —              | -7.9               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | OK32C               | —        | 139<br>(130.7) | -7.9               | 12.6          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | OK400               | —        | 054<br>(046.3) | -7.9               | 8.8           | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | RUSEV               | —        | 342<br>(334.2) | -7.9               | 16.2          | —              | —             | —            | —              | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| OK14A               | 332450.3N / 1334334.2E | OK400               | 333408.5N / 1340320.6E |
| OK14B               | 332402.9N / 1335040.3E | RUSEV               | 334844.3N / 1335450.3E |
| OK32A               | 333615.7N / 1334417.5E |                     |                        |
| OK32C               | 332804.1N / 1335542.6E |                     |                        |

CHANGE : New PROC.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

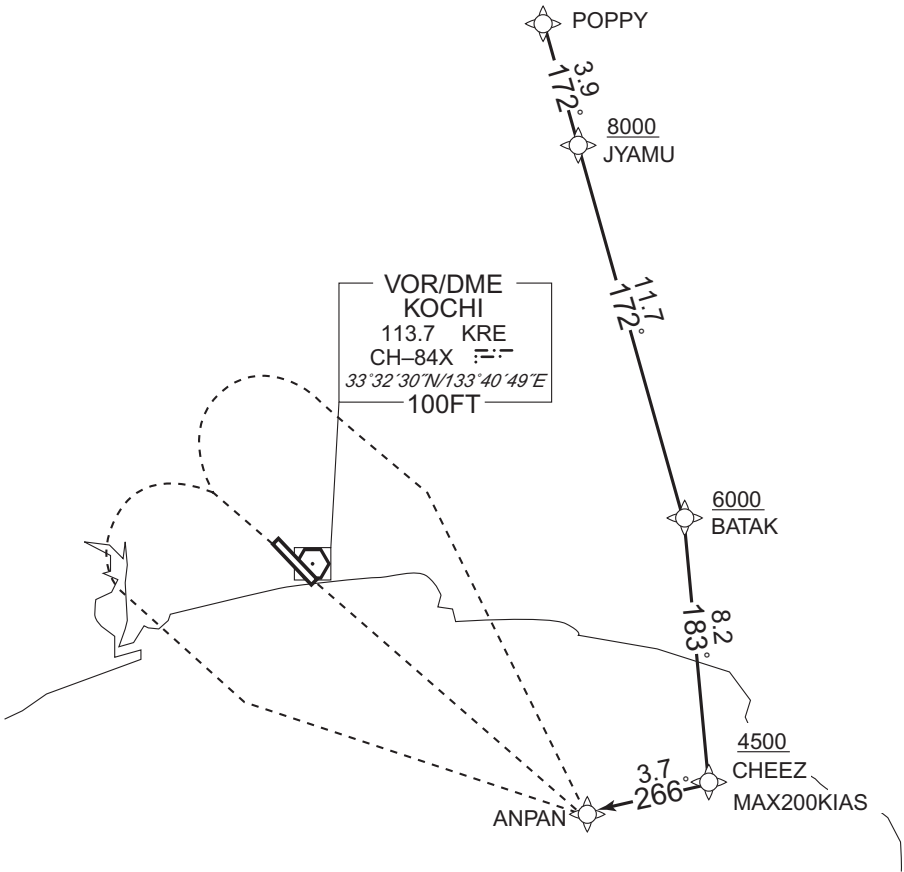
RNAV STAR

YOSAKOI NORTH ARRIVAL

RNAV 1

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

VAR 8° W



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

|                       |   |               |
|-----------------------|---|---------------|
| Critical DME          | SUC   | BATAK - ANPAN |
|                       | KRE   | BATAK - ANPAN |
| DME GAP               | -   |               |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |               |

CHANGE : VAR. PROC course.

| 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               | -        | -               | -7.9               | -             | -              | -             | -            | -              | RNAV1                    |
| 002           | TF              | JYAMU               | -        | 172 (164.2)     | -7.9               | 3.9           | -              | +8000         | -            | -              | RNAV1                    |
| 003           | TF              | BATAK               | -        | 172 (164.2)     | -7.9               | 11.7          | -              | +6000         | -            | -              | RNAV1                    |
| 004           | TF              | CHEEZ               | -        | 183 (175.5)     | -7.9               | 8.2           | -              | +4500         | -200         | -              | RNAV1                    |
| 005           | TF              | ANPAN               | -        | 266 (257.6)     | -7.9               | 3.7           | -              | -             | -            | -              | RNAV1                    |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

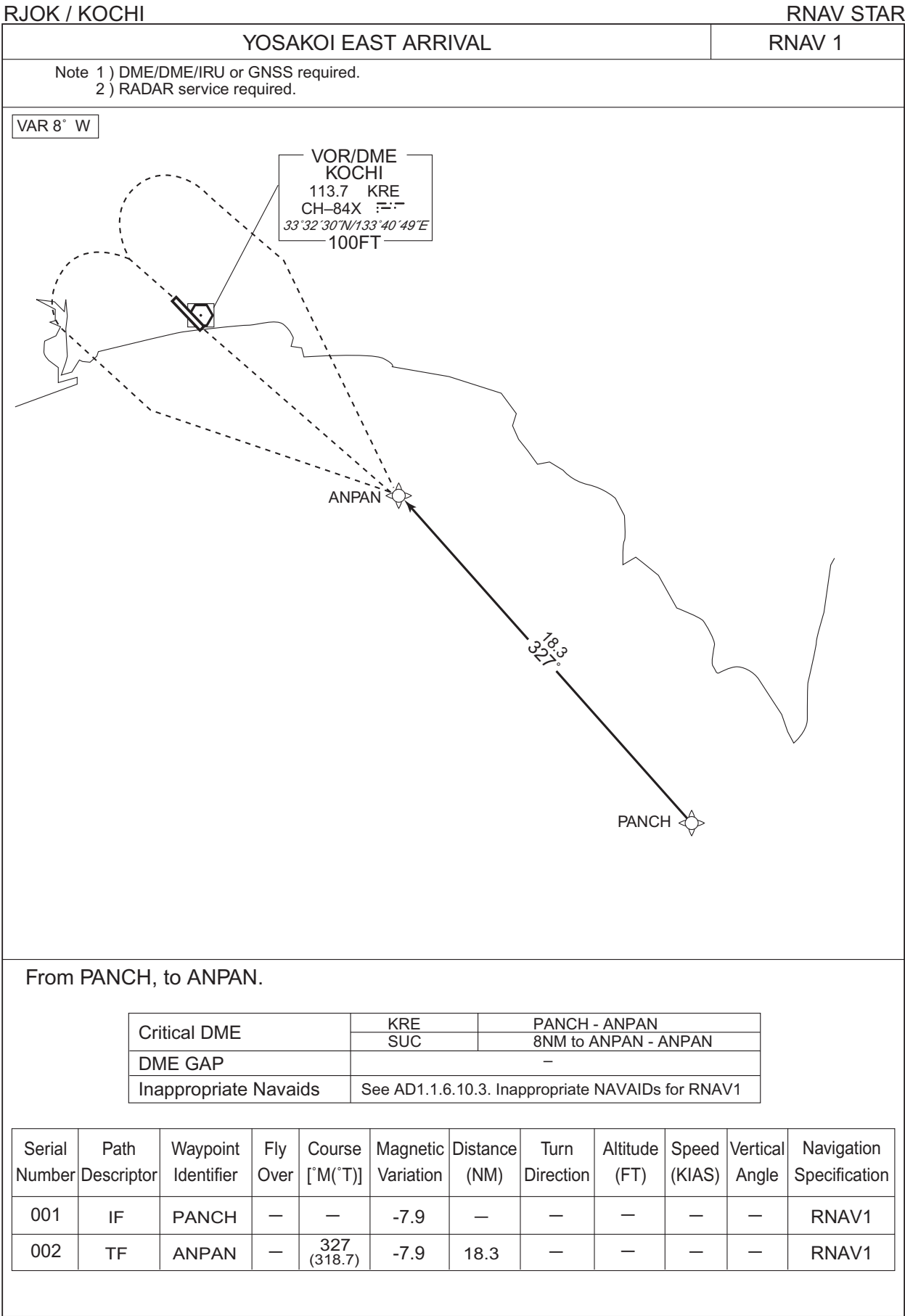
RNAV STAR

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| POPPY               | 334905.1N / 1334915.3E | CHEEZ               | 332555.0N / 1335507.1E |
| JYAMU               | 334518.9N / 1335032.4E | ANPAN               | 332507.5N / 1335048.5E |
| BATAK               | 333404.3N / 1335421.3E |                     |                        |

CHANGE : Waypoint Coordinates added.

STANDARD ARRIVAL CHART -INSTRUMENT



STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

RNAV STAR

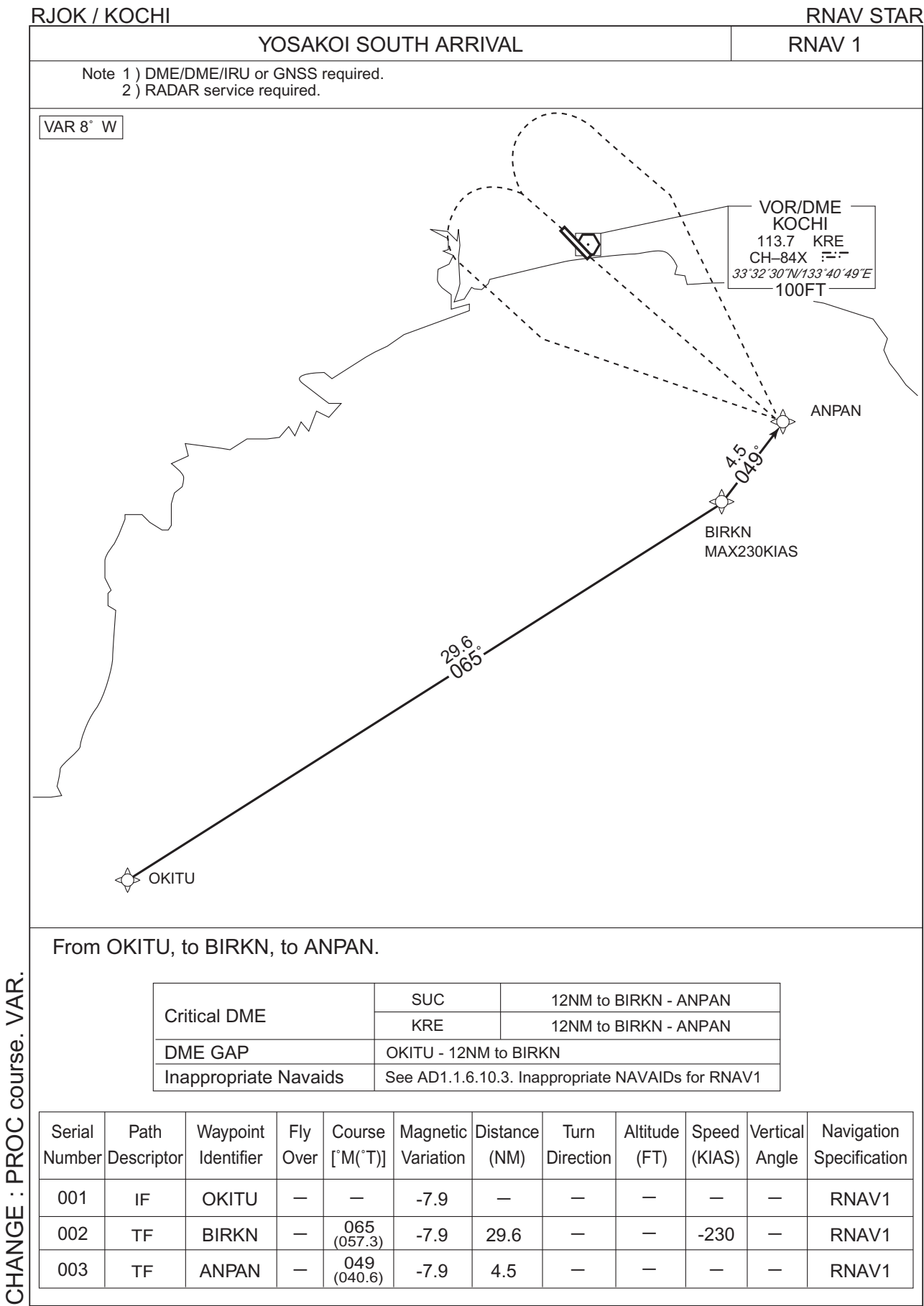
Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| PANCH               | 331121.3N / 1340517.6E | ANPAN               | 332507.5N / 1335048.5E |

CHANGE : Waypoint Coordinates added.



STANDARD ARRIVAL CHART -INSTRUMENT



STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

RNAV STAR

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| OKITU               | 330547.5N / 1331731.5E | ANPAN               | 332507.5N / 1335048.5E |
| BIRKN               | 332142.6N / 1334717.9E |                     |                        |

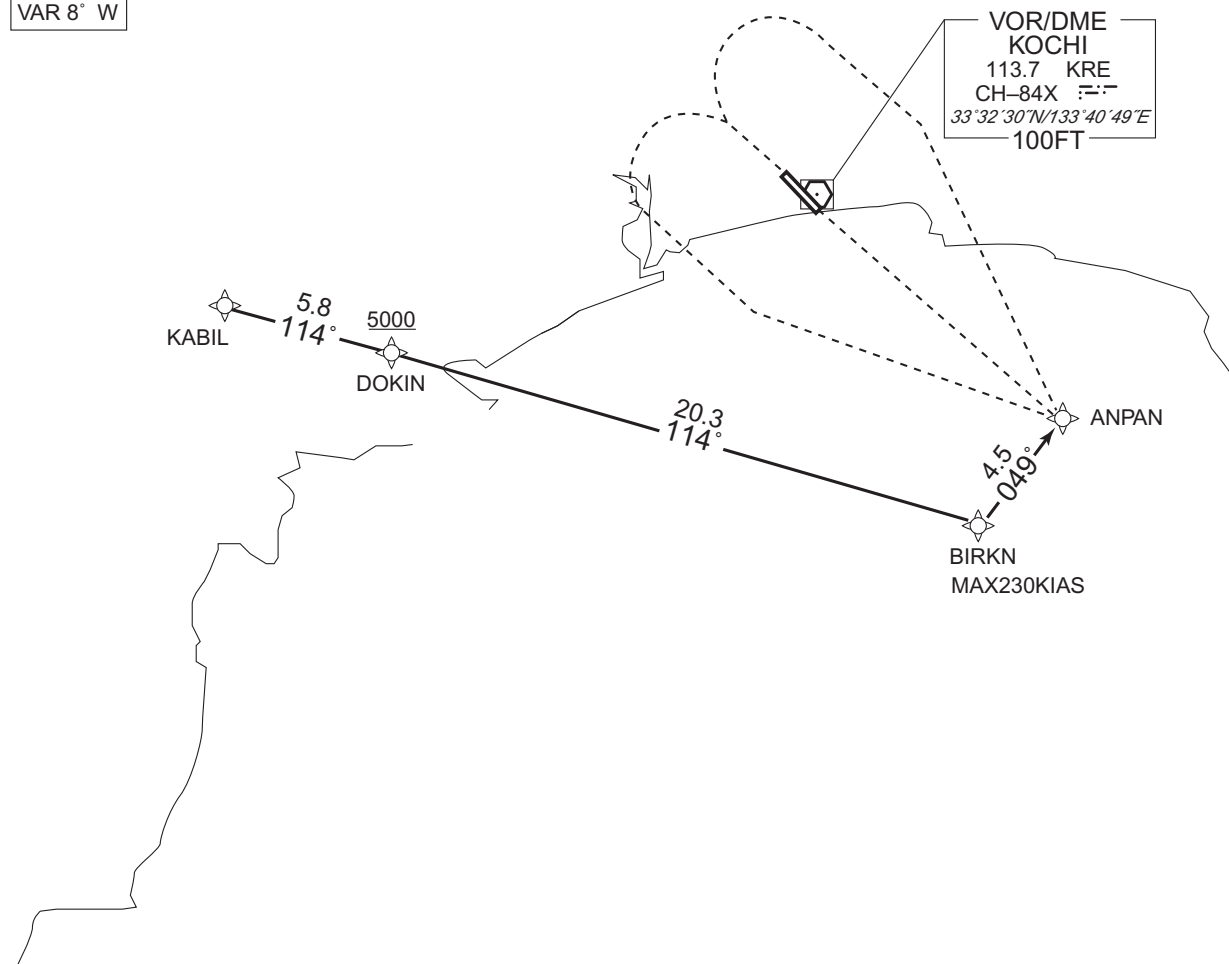
CHANGE : Waypoint Coordinates added.

## RJOK / KOCHI

RNAV STAR

## RNAV 1

VAR 8° W



|                       |   |  |
|-----------------------|---|--|
| Critical DME          | KRE   | 1NM to DOKIN - 16NM to BIRKN<br>7NM to BIRKN - ANPAN |
|                       | SUC   | 1NM to DOKIN - 16NM to BIRKN<br>7NM to BIRKN - ANPAN |
| DME GAP               | 16NM to BIRKN - 7NM to BIRKN                      |  |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1 |  |

CHANGE : PROC course. VAR.

| 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               | —        | —               | -7.9               | —             | —              | —             | —            | —              | RNAV1                    |
| 002           | TF              | DOKIN               | —        | 114<br>(105.9)  | -7.9               | 5.8           | —              | +5000         | —            | —              | RNAV1                    |
| 003           | TF              | BIRKN               | —        | 114<br>(105.9)  | -7.9               | 20.3          | —              | —             | -230         | —              | RNAV1                    |
| 004           | TF              | ANPAN               | —        | 049<br>(040.6)  | -7.9               | 4.5           | —              | —             | —            | —              | RNAV1                    |

STANDARD ARRIVAL CHART -INSTRUMENT

RJOK / KOCHI

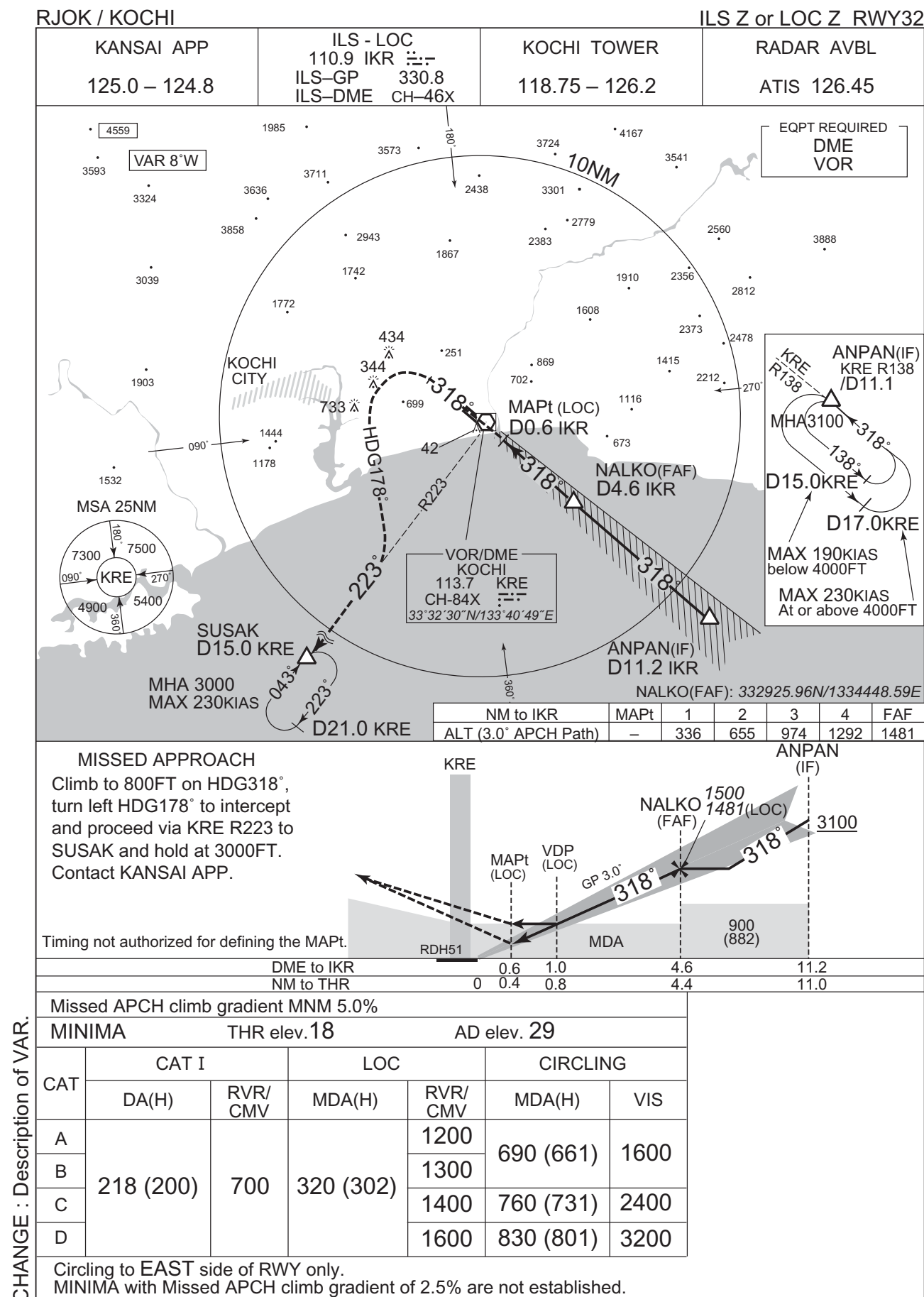
RNAV STAR

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| KABIL               | 332854.0N / 1331717.4E | BIRKN               | 332142.6N / 1334717.9E |
| DOKIN               | 332718.9N / 1332357.6E | ANPAN               | 332507.5N / 1335048.5E |

CHANGE : Waypoint Coordinates added.

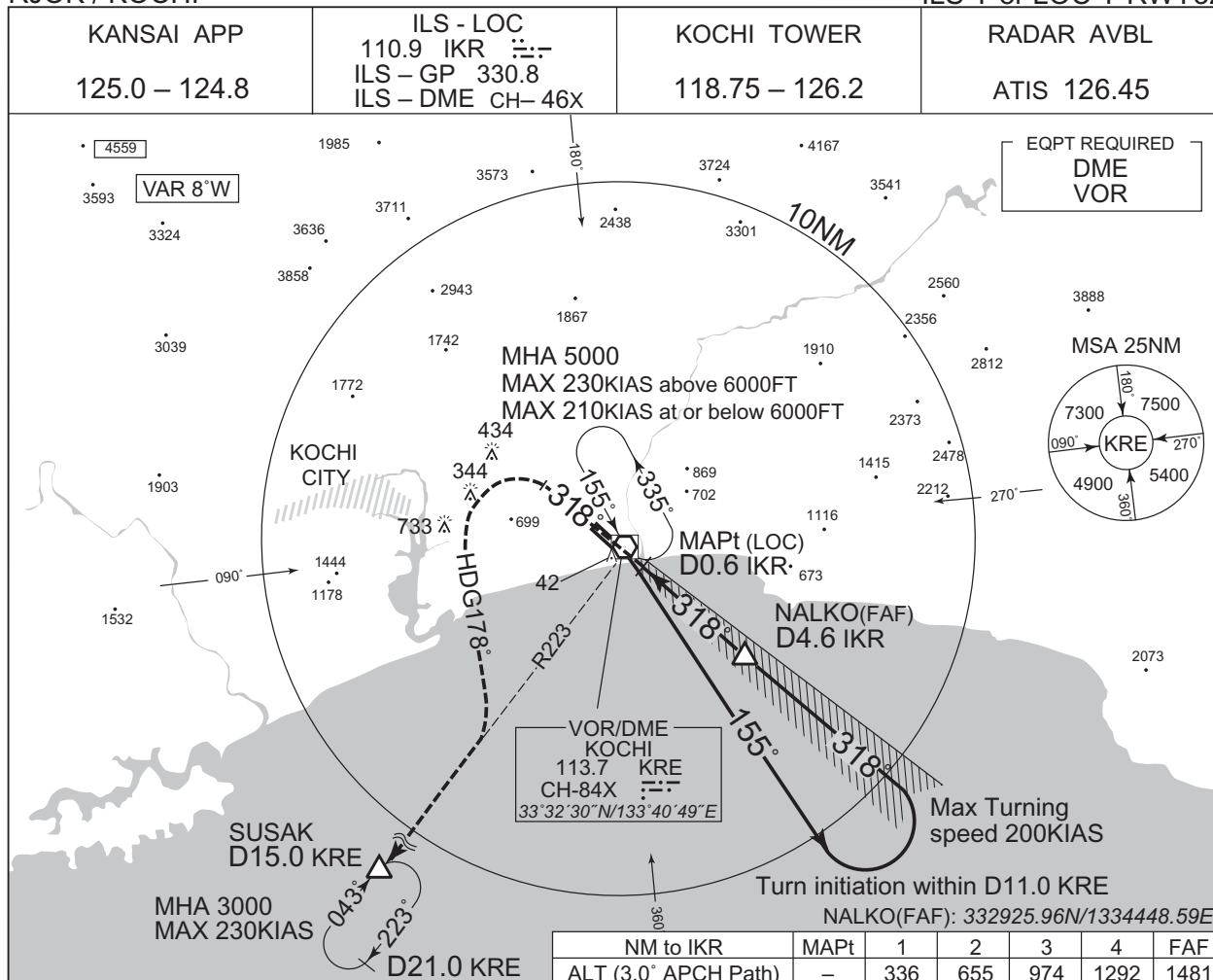
## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJOK / KOCHI

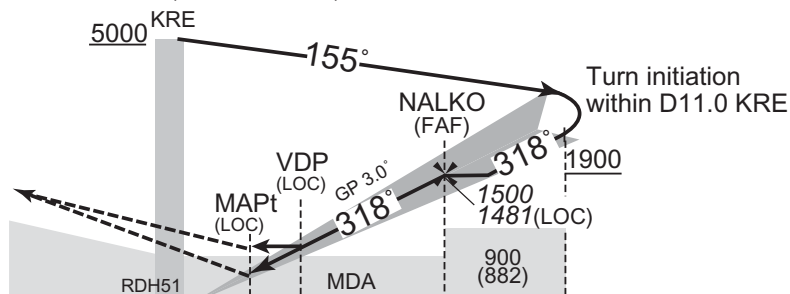
ILS Y or LOC Y RWY32



## 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.



|            |     |     |     |     |
|------------|-----|-----|-----|-----|
| 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 : Description of VAR.

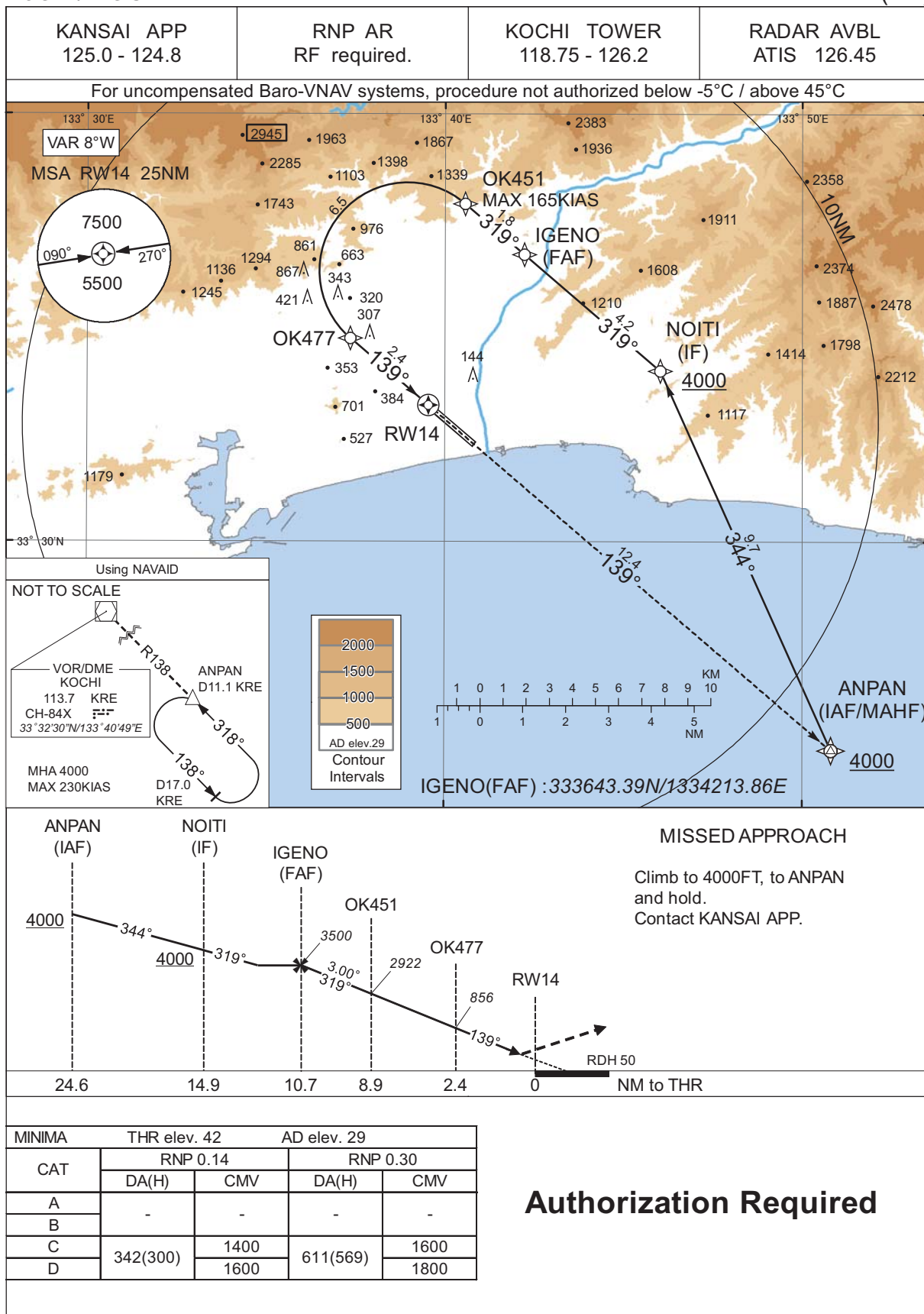
## RJOK / KOCHI VOR RWY32



## INSTRUMENT APPROACH CHART

RJOK / KOCHI

RNP Z RWY14(AR)



CHANGE : PROC course. VAR. MSA. RNAV HLDG abolished.



INSTRUMENT APPROACH CHART

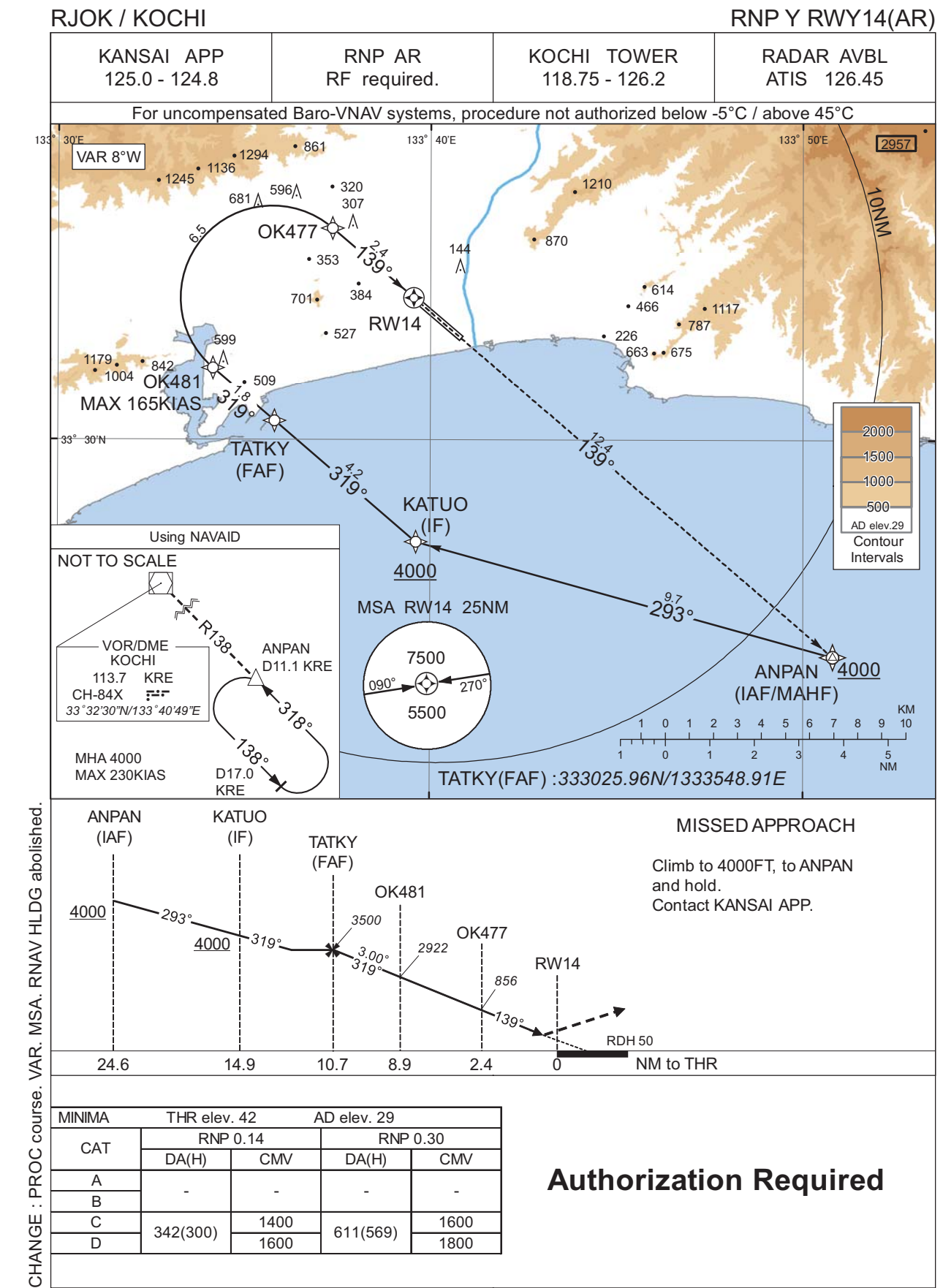
RJOK / KOCHI

RNP Z RWY14(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                                 | ANPAN                    | -        | -                        | -7.9               | -                        | -              | +4000         | -            | -               | -            |
| 002                  | TF                                 | NOITI                    | -        | 344<br>(335.9)           | -7.9               | 9.7                      | -              | +4000         | -            | -               | 1.0          |
| 003                  | TF                                 | IGENO                    | -        | 319<br>(310.7)           | -7.9               | 4.2                      | -              | 3500          | -            | -               | 1.0          |
| 004                  | TF                                 | OK451                    | -        | 319<br>(310.7)           | -7.9               | 1.8                      | -              | 2922          | -165         | -3.00           | 0.14<br>0.30 |
| 005                  | RF<br>Center:<br>OKRF1<br>r=2.07NM | OK477                    | -        | -                        | -7.9               | 6.5                      | L              | 856           | -            | -3.00           | 0.14<br>0.30 |
| 006                  | TF                                 | RW14                     | Y        | 139<br>(130.6)           | -7.9               | 2.4                      | -              | 92            | -            | -3.00/50        | 0.14<br>0.30 |
| 007                  | TF                                 | ANPAN                    | -        | 139<br>(130.6)           | -7.9               | 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 |          |                          |                    |                          |                |               |              |                 |              |

CHANGE : PROC course. VAR.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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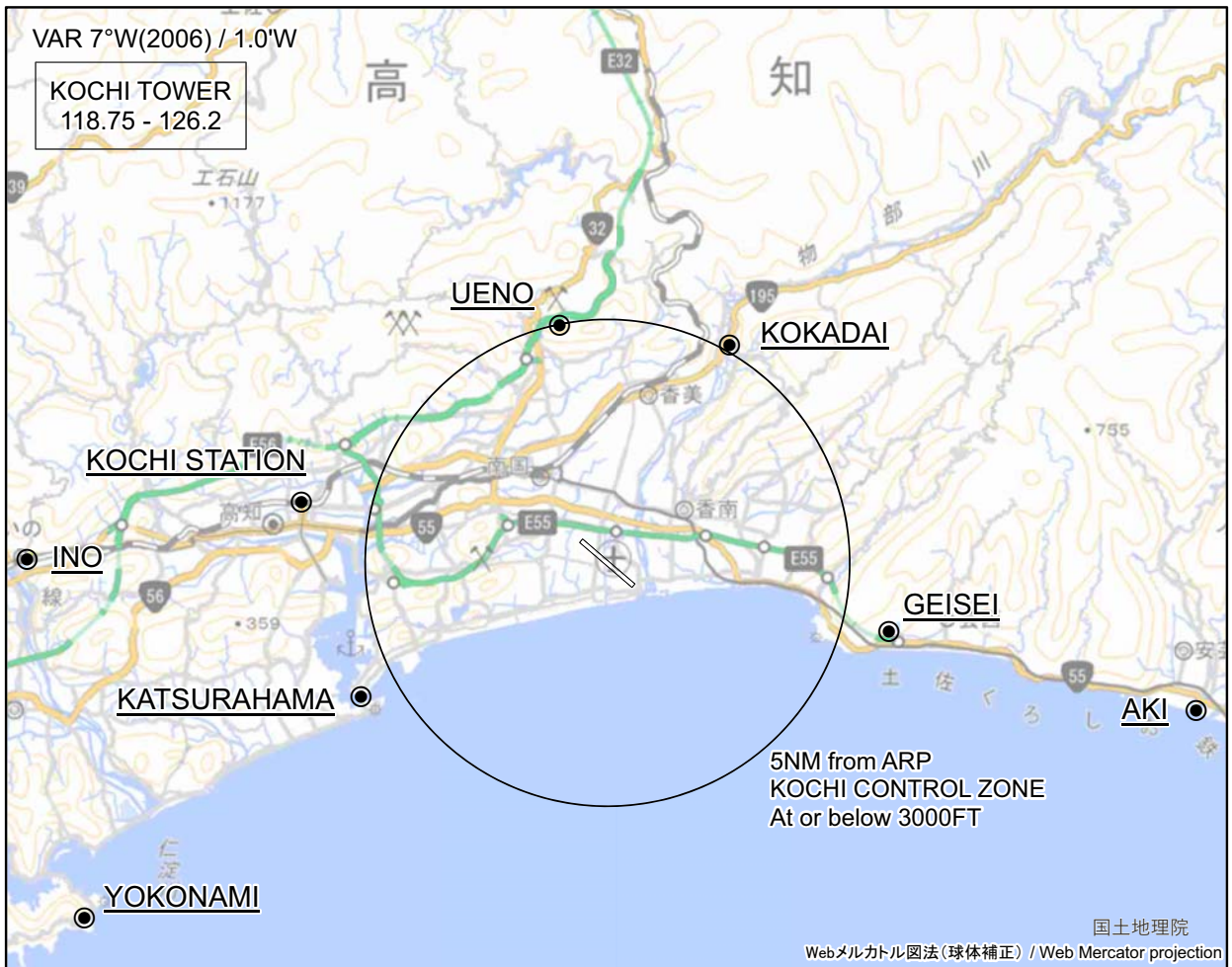
RNP Y RWY14(AR)

| 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                                 | ANPAN                    | -        | -                        | -7.9               | -                        | -              | +4000         | -            | -               | -            |
| 002                  | TF                                 | KATUO                    | -        | 293<br>(285.5)           | -7.9               | 9.7                      | -              | +4000         | -            | -               | 1.0          |
| 003                  | TF                                 | TATKY                    | -        | 319<br>(310.6)           | -7.9               | 4.2                      | -              | 3500          | -            | -               | 1.0          |
| 004                  | TF                                 | OK481                    | -        | 319<br>(310.6)           | -7.9               | 1.8                      | -              | 2922          | -165         | -3.00           | 0.14<br>0.30 |
| 005                  | RF<br>Center:<br>OKRF2<br>r=2.07NM | OK477                    | -        | -                        | -7.9               | 6.5                      | R              | 856           | -            | -3.00           | 0.14<br>0.30 |
| 006                  | TF                                 | RW14                     | Y        | 139<br>(130.6)           | -7.9               | 2.4                      | -              | 92            | -            | -3.00/50        | 0.14<br>0.30 |
| 007                  | TF                                 | ANPAN                    | -        | 139<br>(130.6)           | -7.9               | 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 |          |                          |                    |                          |                |               |              |                 |              |

CHANGE : PROC course. VAR.

RJOK / KOCHI

Visual REP



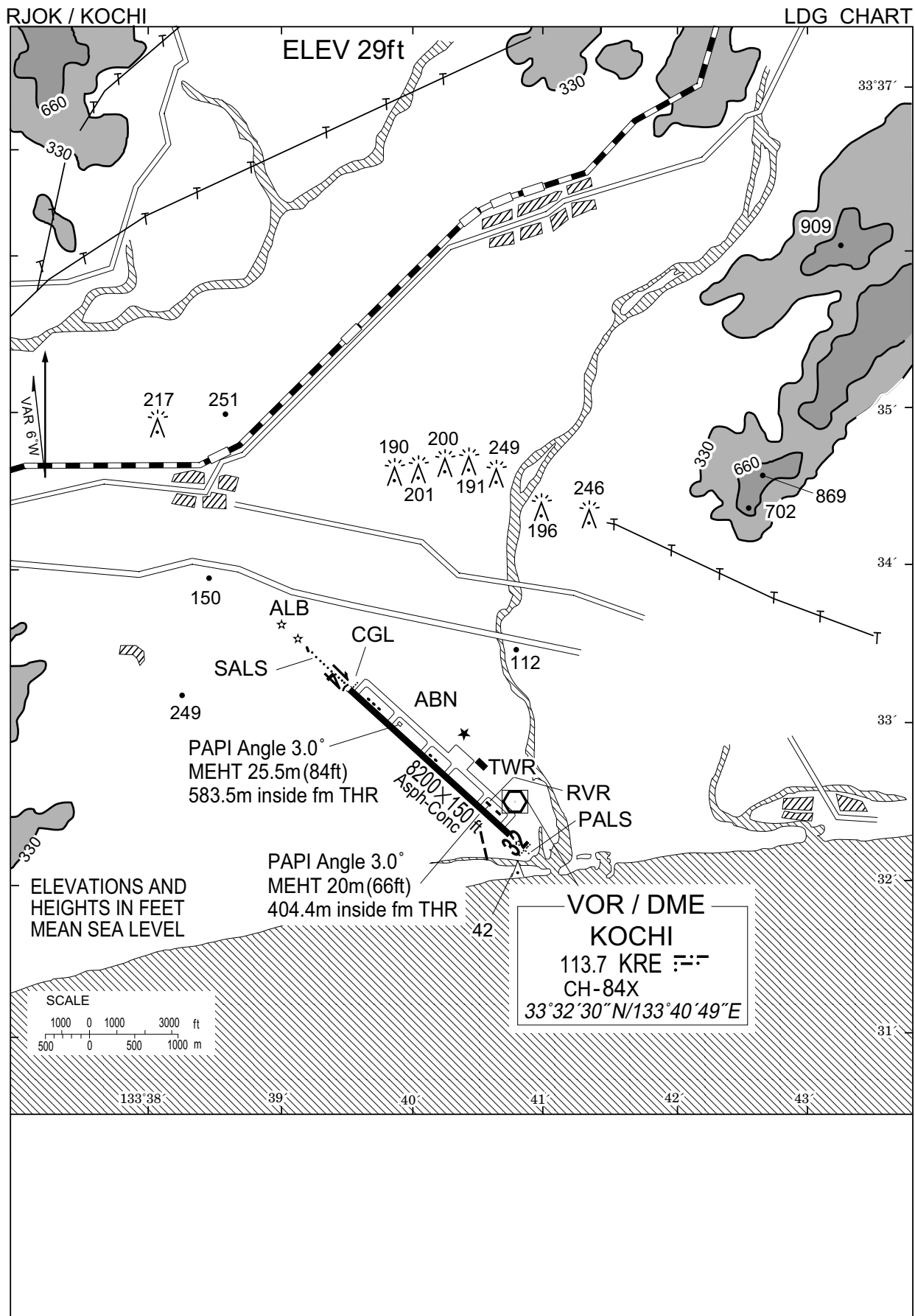
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Call sign(Ino), Note established.

| Call sign            | BRG / DIST from ARP | Remarks                                  |
|----------------------|---------------------|--|
| 植野<br>Ueno           | 349°T / 5.0NM       | ゴルフ場<br>Golf Course                      |
| 工科大<br>Kokadai       | 029°T / 5.2NM       | 高知工科大学<br>Kochi University of Technology |
| 高知駅<br>Kochi Station | 281°T / 6.4NM       | JR高知駅<br>Station                         |
| 伊野<br>Ino            | 270°T / 10.2NM      | JR伊野駅<br>Station                         |
| 芸西<br>Geisei         | 104°T / 6.0NM       | ホテル<br>Hotel                             |
| 桂浜<br>Katsurahama    | 242°T / 5.8NM       | 浦戸大橋<br>Bridge                           |
| 安芸<br>Aki            | 104°T / 12.5NM      | 安芸川河口<br>River mouth                     |
| 横浪<br>Yokonami       | 236°T / 13.0NM      | ホテル<br>Hotel                             |

注: 有視界飛行方式により高知空港に着陸しようとする航空機又は高知航空交通管制圏を通過しようとする航空機は、競合する航空機の交通情報の提供を早期に受けるため、特に北西～北東方向から進入する場合、飛行場標点から10NM以遠で、高知タワーと通信設定することが推奨される。

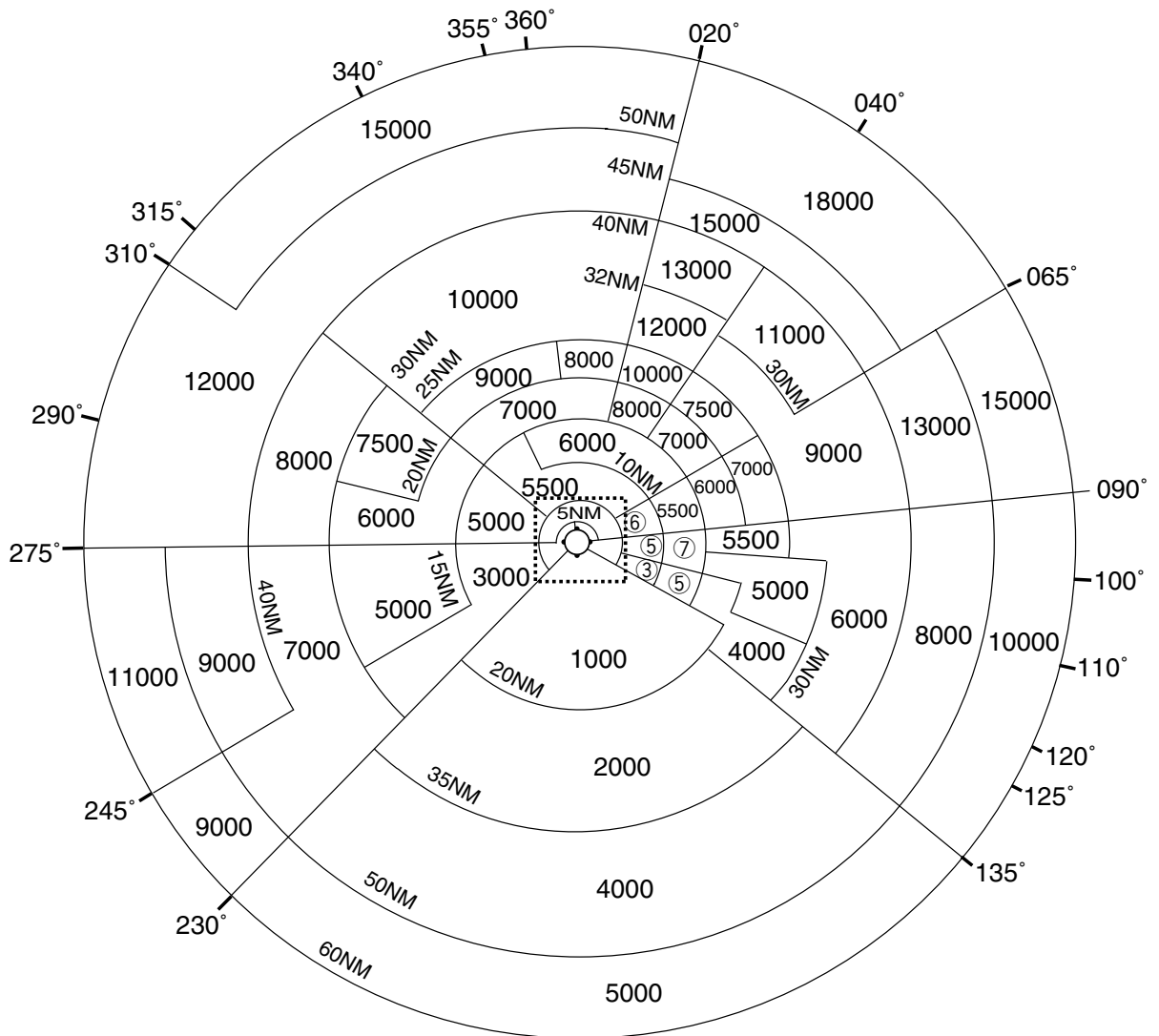
NOTE: When VFR flight is going to enter the control zone for landing or passing through, the pilot is recommended to contact the control tower before passing 10NM from ARP especially in case of coming from northwest to northeast in order to be provided related traffic information as soon as possible.



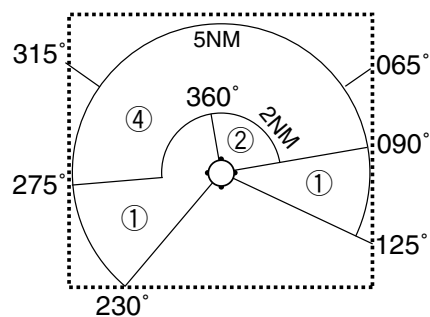
RJOK / KOCHI

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)