

## STANDARD DEPARTURE CHART -INSTRUMENT

RJAA / NARITA INTL

RNAV SID

## GULBO TWO DEPARTURE

RNAV1

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 rolling.

2) RADAR service required.

Critical DME

RWY16R:TLD DER – 1.3NM FM DER

RWY16L:TLD DER – 3.4NM FM DER

DME GAP

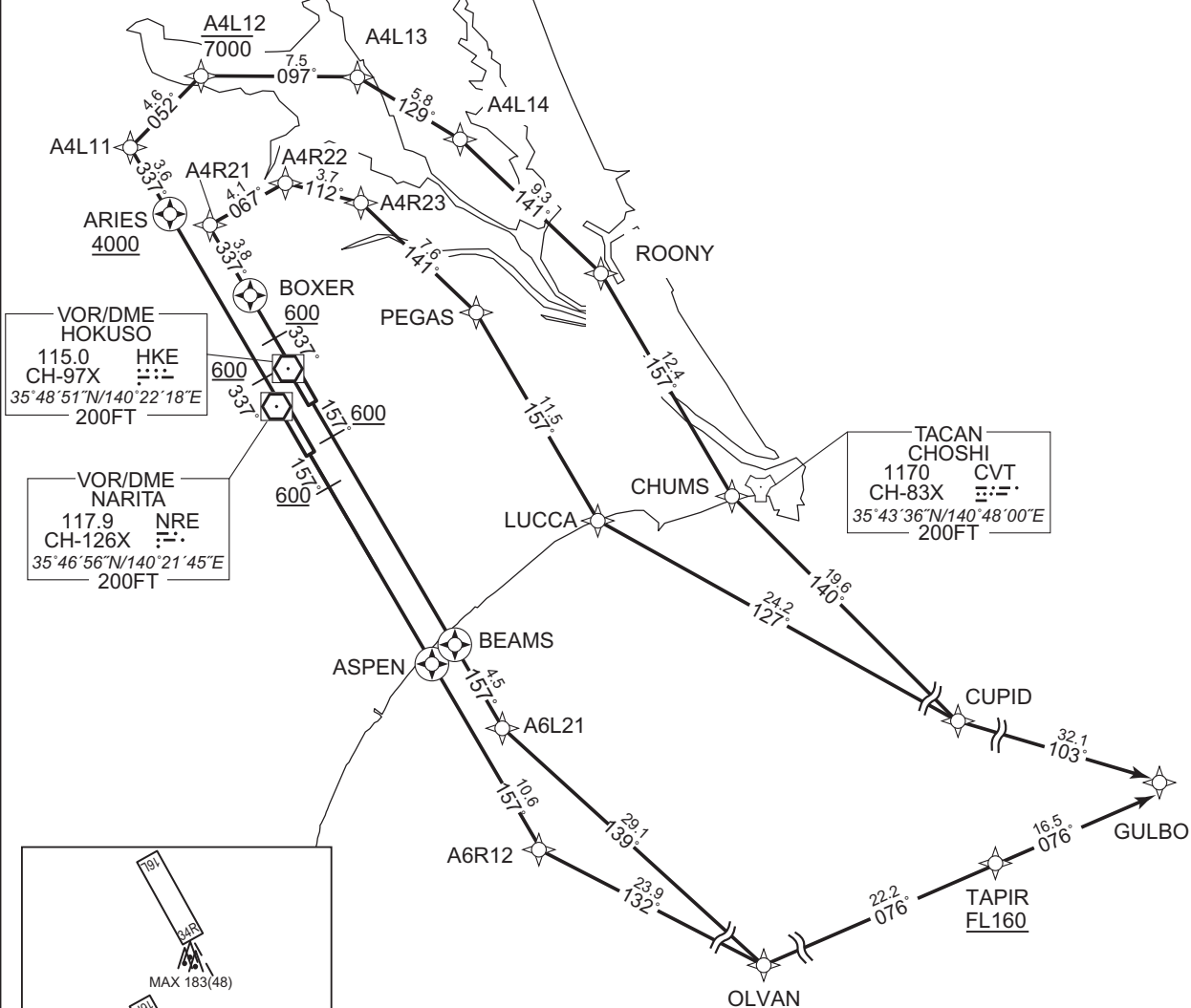
RWY34L :DER – 1.3NM FM DER

Inappropriate  
Nav aids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR 8° W(2019)

## GULBO TWO DEPARTURE



CHANGE : ALT Restriction on A4R23. PROC renamed.

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GULBO TWO DEPARTURE

RWY16R : Climb on HDG 157° at or above 600FT, direct to ASPEN, to A6R12, to OLVAN, to TAPIR at or above FL160, to GULBO.

RWY16L : Climb on HDG 157° at or above 600FT, direct to BEAMS, to A6L21, to OLVAN, to TAPIR at or above FL160, to GULBO.

RWY34L : Climb on HDG 337° at or above 600FT, direct to ARIES at or above 4000FT, to A4L11, to A4L12 at or below 7000FT, to A4L13, to A4L14, to ROONY, to CHUMS, to CUPID, to GULBO.

RWY34R : Climb on HDG 337° at or above 600FT, direct to BOXER, to A4R21, to A4R22, to A4R23, to PEGAS, to LUCCA, to CUPID, to GULBO.

RWY16R \*MUST be used for database coding.

| 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               | —                   | —        | 157<br>(149.6) | -7.5               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF               | ASPEN               | Y        | —              | -7.5               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF               | A6R12               | —        | 157<br>(149.7) | -7.5               | 10.6          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF               | OLVAN               | —        | 132<br>(124.2) | -7.5               | 23.9          | —              | —             | —            | —              | RNAV1                    |
| 005           | TF               | TAPIR               | —        | 076<br>(068.0) | -7.5               | 22.2          | —              | +FL160        | —            | —              | RNAV1                    |
| 006           | TF               | GULBO               | —        | 076<br>(068.3) | -7.5               | 16.5          | —              | —             | —            | —              | RNAV1                    |

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| 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               | —                   | —        | 157<br>(149.6) | -7.5               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF               | BEAMS               | Y        | —              | -7.5               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF               | A6L21               | —        | 157<br>(149.7) | -7.5               | 4.5           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF               | OLVAN               | —        | 139<br>(131.8) | -7.5               | 29.1          | —              | —             | —            | —              | RNAV1                    |
| 005           | TF               | TAPIR               | —        | 076<br>(068.0) | -7.5               | 22.2          | —              | +FL160        | —            | —              | RNAV1                    |
| 006           | TF               | GULBO               | —        | 076<br>(068.3) | -7.5               | 16.5          | —              | —             | —            | —              | RNAV1                    |

CHANGE : ALT Restriction on A4R23. PROC renamed.

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RWY34L \*MUST be used for database coding.

| 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               | —                   | —        | 337<br>(329.6) | -7.5               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF               | ARIES               | Y        | —              | -7.5               | —             | —              | +4000         | —            | —              | RNAV1                    |
| 003           | TF               | A4L11               | —        | 337<br>(329.5) | -7.5               | 3.6           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF               | A4L12               | —        | 052<br>(044.3) | -7.5               | 4.6           | —              | -7000         | —            | —              | RNAV1                    |
| 005           | TF               | A4L13               | —        | 097<br>(089.4) | -7.5               | 7.5           | —              | —             | —            | —              | RNAV1                    |
| 006           | TF               | A4L14               | —        | 129<br>(121.2) | -7.5               | 5.8           | —              | —             | —            | —              | RNAV1                    |
| 007           | TF               | ROONY               | —        | 141<br>(133.2) | -7.5               | 9.3           | —              | —             | —            | —              | RNAV1                    |
| 008           | TF               | CHUMS               | —        | 157<br>(149.7) | -7.5               | 12.4          | —              | —             | —            | —              | RNAV1                    |
| 009           | TF               | CUPID               | —        | 140<br>(132.0) | -7.5               | 19.6          | —              | —             | —            | —              | RNAV1                    |
| 010           | TF               | GULBO               | —        | 103<br>(095.1) | -7.5               | 32.1          | —              | —             | —            | —              | RNAV1                    |

RWY34R \*MUST be used for database coding.

| 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               | —                   | —        | 337<br>(329.6) | -7.5               | —             | —              | +600          | —            | —              | RNAV1                    |
| 002           | DF               | BOXER               | Y        | —              | -7.5               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF               | A4R21               | —        | 337<br>(329.6) | -7.5               | 3.8           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF               | A4R22               | —        | 067<br>(059.3) | -7.5               | 4.1           | —              | —             | —            | —              | RNAV1                    |
| 005           | TF               | A4R23               | —        | 112<br>(104.6) | -7.5               | 3.7           | —              | —             | —            | —              | RNAV1                    |
| 006           | TF               | PEGAS               | —        | 141<br>(133.4) | -7.5               | 7.6           | —              | —             | —            | —              | RNAV1                    |
| 007           | TF               | LUCCA               | —        | 157<br>(149.6) | -7.5               | 11.5          | —              | —             | —            | —              | RNAV1                    |
| 008           | TF               | CUPID               | —        | 127<br>(119.8) | -7.5               | 24.2          | —              | —             | —            | —              | RNAV1                    |
| 009           | TF               | GULBO               | —        | 103<br>(095.1) | -7.5               | 32.1          | —              | —             | —            | —              | RNAV1                    |

CHANGE : ALT Restriction on A4R23.

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Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| A4L11               | 355915.6N / 1401249.1E | BEAMS               | 353533.0N / 1403153.1E |
| A4L12               | 360232.6N / 1401646.8E | BOXER               | 355213.0N / 1401951.6E |
| A4L13               | 360236.7N / 1402559.7E | CHUMS               | 354237.0N / 1404806.0E |
| A4L14               | 355937.8N / 1403205.0E | CUPID               | 352930.3N / 1410557.3E |
| A4R21               | 355529.4N / 1401729.2E | GULBO               | 352632.9N / 1414509.6E |
| A4R22               | 355734.5N / 1402150.1E | LUCCA               | 354132.8N / 1404011.4E |
| A4R23               | 355638.8N / 1402614.7E | OLVAN               | 351214.1N / 1410111.3E |
| A6L21               | 353137.9N / 1403441.9E | PEGAS               | 355126.3N / 1403302.1E |
| A6R12               | 352543.5N / 1403700.7E | ROONY               | 355317.4N / 1404024.4E |
| ARIES               | 355607.4N / 1401505.9E | TAPIR               | 352028.5N / 1412621.9E |
| ASPEN               | 353451.0N / 1403028.1E |                     |                        |

CHANGE : New PROC