

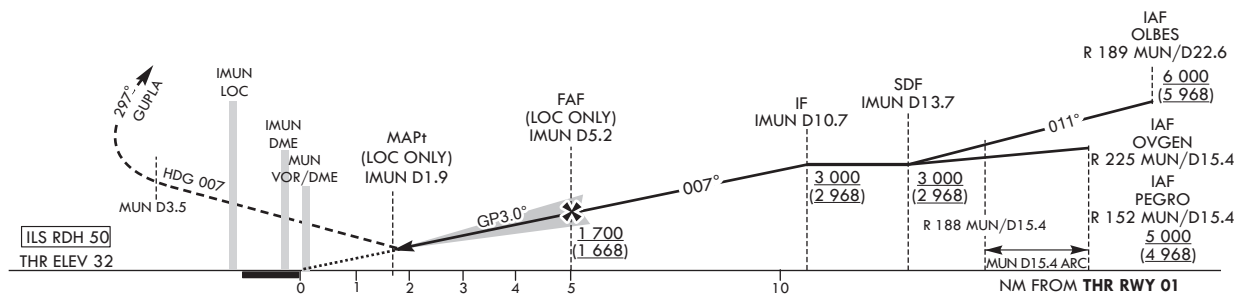
|         |     |         |        |
|---------|-----|---------|--------|
| GWANGJU | APP | 120.475 | 130.0  |
|         |     | 228.9   | 265.5  |
| MUAN    | TWR | 118.25  | 118.85 |

**ILS Y or LOC Y RWY 01**

| RECOMMENDED PROFILE(LOC ONLY)            | DME IMUN | 5                | 4                | 3            | 2            |
|------------------------------------------|----------|------------------|------------------|--------------|--------------|
| Final Approach Gradient 5.31%, 323 ft/NM | ALT(HGT) | 1 645<br>(1 613) | 1 322<br>(1 290) | 999<br>(967) | 660<br>(628) |

Climb on HDG 007° to MUN D3.5, then turn left HDG 297° to GUPLA and Hold at 5 000 ft.

|                |        |
|----------------|--------|
| TRANSITION ALT | 14 000 |
| TRANSITION LVL | FL 140 |



| CATEGORY |       |          | DA(DH)/<br>MDA(MDH) | A                    | B | C | D |                                                                          | Knots      | 60  | 90  | 120 | 150 | 180     |
|----------|-------|----------|---------------------|----------------------|---|---|---|--------------------------------------------------------------------------|------------|-----|-----|-----|-----|---------|
| STA      | CAT-I | FULL     | 232                 | RVR 550 m, VIS 800 m |   |   |   | Rate of<br>descent                                                       | V/V<br>fpm | 318 | 478 | 637 | 796 | 955     |
|          |       | ALS INOP | (200)               |                      |   |   |   |                                                                          |            |     |     |     |     |         |
|          | LOC   | FULL     | 660                 | 2 600 m              |   |   |   | * Timing Not authorized for defining MAPt.<br>* Circling Not authorized. |            |     |     |     |     |         |
|          |       | ALS INOP | (628)               |                      |   |   |   |                                                                          |            |     |     |     |     | 3 300 m |

AIP AMDT 1/24

MUAN/Muan Intl(RKJB)  
ILS Y or LOC Y RWY 01

## AERONAUTICAL DATA TABULATION

| ILS Y or LOC Y Approach to RWY 01 from OVGEN, OLBES or PEGRO |                                               |               |                |
|--------------------------------------------------------------|-----------------------------------------------|---------------|----------------|
| Fix/point                                                    |                                               | Coordinates   |                |
| OVGEN(IAF)                                                   | R 225 MUN /15.4 NM MUN                        | 34°46'22.2"N  | 126°11'47.9"E  |
| OLBES(IAF)                                                   | R 189 MUN /22.5 NM MUN                        | 34°36'08.1"N  | 126°22'32.0"E  |
| PEGRO(IAF)                                                   | R 152 MUN /15.4 NM MUN                        | 34°46'09.0"N  | 126°34'02.1"E  |
| D13.7 IMUN(SDF)                                              | BRG 7.10°/13.7 NM IMUN                        | 34°45'11.5"N  | 126°23'04.1"E  |
| D10.7 IMUN(IF)                                               | BRG 7.10°/10.7 NM IMUN                        | 34°48'10.9"N  | 126°23'03.3"E  |
| D5.2 IMUN(FAF LOC ONLY)                                      | BRG 7.10°/5.2 NM IMUN                         | 34°53'42.6"N  | 126°23'00.5"E  |
| D1.9 IMUN(MAPt LOC ONLY)                                     | BRG 7.10°/1.9 NM IMUN                         | 34°56'59.1"N  | 126°22'59.2"E  |
| MUN VOR/DME                                                  |                                               | 34°58'40.0"N  | 126°23'05.4"E  |
| THR RWY 01                                                   | Final approach descent angle 3.04° (LOC ONLY) | 34°58'43.64"N | 126°22'58.45"E |
| IMUN DME                                                     |                                               | 34°58'53.2"N  | 126°22'53.8"E  |
| IMUN LOC                                                     |                                               | 35°00'23.1"N  | 126°22'57.8"E  |
| D3.5 MUN                                                     | HDG 007                                       | -             |                |
| GUPLA                                                        | HDG 297/11.5 NM MUN                           | 35°07'37.8"N  | 126°14'18.1"E  |

**INSTRUMENT  
APPROACH  
CHART - ICAO**

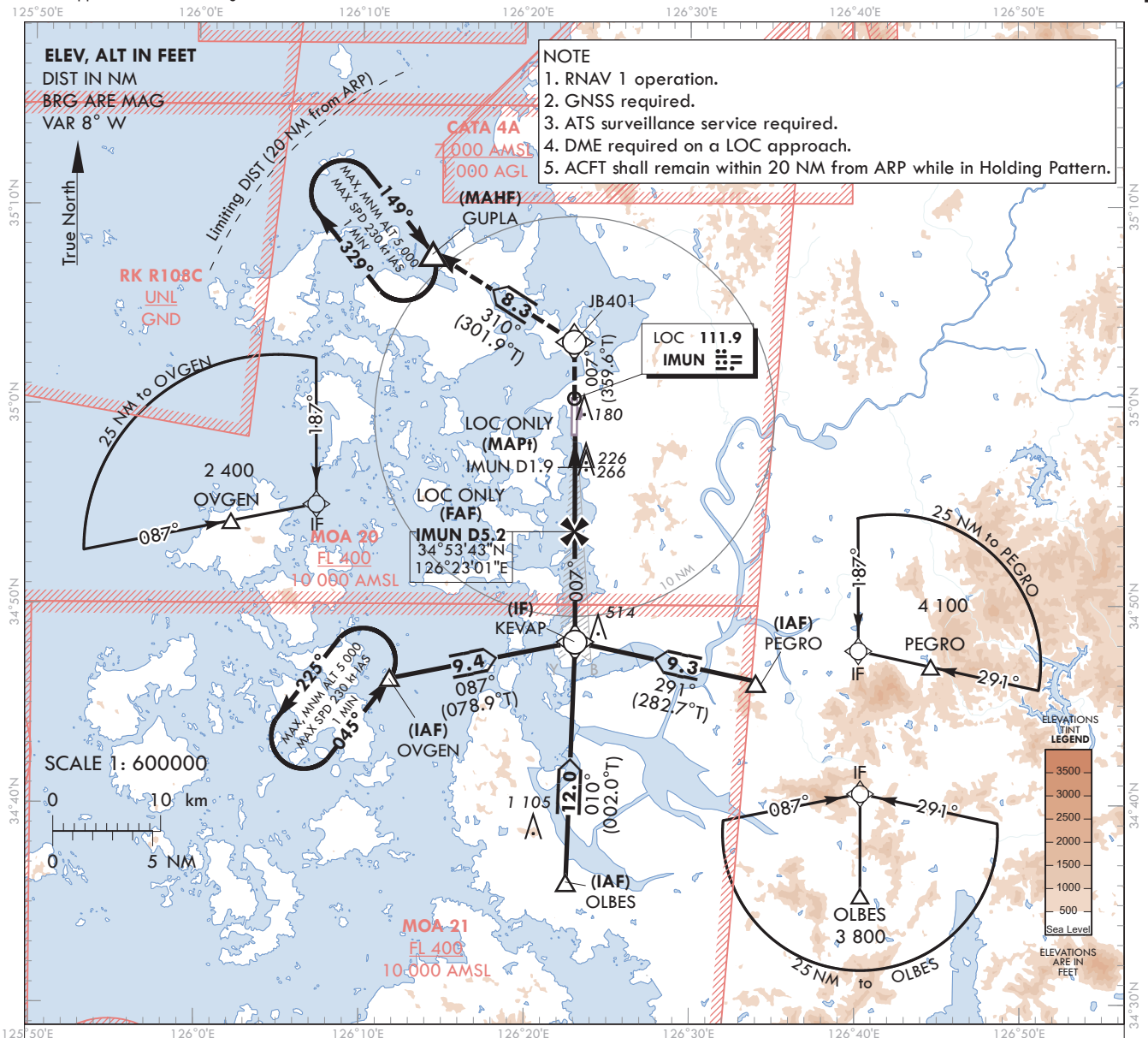
**AERODROME ELEV 51 ft**  
HEIGHTS RELATED TO  
THR RWY 01 - ELEV 32 ft

|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

**MUAN/Muan Intl(RKJB)**

**ILS Z or LOC Z RWY 01**

Note : Approach under ICAO Flight Procedures.

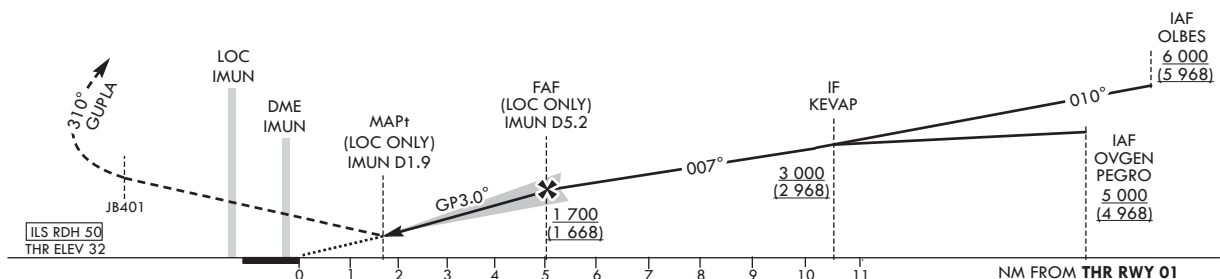


| RECOMMENDED PROFILE(LOC ONLY)            | DME IMUN | 5                | 4                | 3            | 2            |
|------------------------------------------|----------|------------------|------------------|--------------|--------------|
| Final Approach Gradient 5.31%, 323 ft/NM | ALT(HGT) | 1 645<br>(1 613) | 1 322<br>(1 290) | 999<br>(967) | 660<br>(628) |

TRANSITION ALT 14 000  
TRANSITION LVL FL 140

**MISSED APPROACH**

Climb to 5 000 ft on track of 007° to JB401,  
then LEFT turn on track of 310° to GUPLA.  
Hold as published.



| CATEGORY |       |          | DA(DH)/<br>MDA(MDH) | A                    | B | C | D |                    | Knots   | 60  | 90  | 120 | 150 | 180 |                                            |
|----------|-------|----------|---------------------|----------------------|---|---|---|--------------------|---------|-----|-----|-----|-----|-----|--------------------------------------------|
| STA      | CAT-I | FULL     | 232                 | RVR 550 m, VIS 800 m |   |   |   | Rate of<br>descent | V/V fpm | 318 | 478 | 637 | 796 | 955 |                                            |
|          |       | ALS INOP | (200)               | 1 200 m              |   |   |   |                    |         |     |     |     |     |     |                                            |
|          | LOC   | FULL     | 660                 | 2 600 m              |   |   |   |                    |         |     |     |     |     |     | * Timing Not authorized for defining MAPt. |
|          |       | ALS INOP | (628)               | 3 300 m              |   |   |   |                    |         |     |     |     |     |     | * Circling Not authorized.                 |

\* Timing Not authorized for defining MAPt.  
\* Circling Not authorized.

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)  
ILS Z or LOC Z RWY 01

## AERONAUTICAL DATA TABULATION

| ILS Z or LOC Z Approach to RWY 01 from OVGEN, OLBES or PEGRO |                                              |               |                |
|--------------------------------------------------------------|----------------------------------------------|---------------|----------------|
| Fix/point                                                    |                                              | Coordinates   |                |
| OVGEN(IAF)                                                   |                                              | 34°46'22.2"N  | 126°11'47.9"E  |
| OLBES(IAF)                                                   |                                              | 34°36'08.1"N  | 126°22'32.0"E  |
| PEGRO(IAF)                                                   |                                              | 34°46'09.0"N  | 126°34'02.1"E  |
| KEVAP(IF)                                                    | BRG 7.10°/10.69 NM IMUN                      | 34°48'10.9"N  | 126°23'03.3"E  |
| D5.2 IMUN(FAF LOC ONLY)                                      | BRG 7.10°/5.17 NM IMUN                       | 34°53'42.6"N  | 126°23'00.5"E  |
| D1.9 IMUN(MAPt LOC ONLY)                                     | BRG 7.10°/1.90 NM IMUN                       | 34°56'59.1"N  | 126°22'59.2"E  |
| THR RWY 01                                                   | Final approach descent angle 3.04°(LOC ONLY) | 34°58'43.64"N | 126°22'58.45"E |
| IMUN DME                                                     |                                              | 34°58'53.2"N  | 126°22'53.8"E  |
| IMUN LOC                                                     |                                              | 35°00'23.1"N  | 126°22'57.8"E  |
| JB401                                                        |                                              | 35°03'13.1"N  | 126°22'56.4"E  |
| GUPLA                                                        |                                              | 35°07'37.8"N  | 126°14'18.1"E  |

**INSTRUMENT  
APPROACH  
CHART - ICAO**

**AERODROME ELEV 51 ft**  
HEIGHTS RELATED TO  
THR RWY 01 - ELEV 32 ft

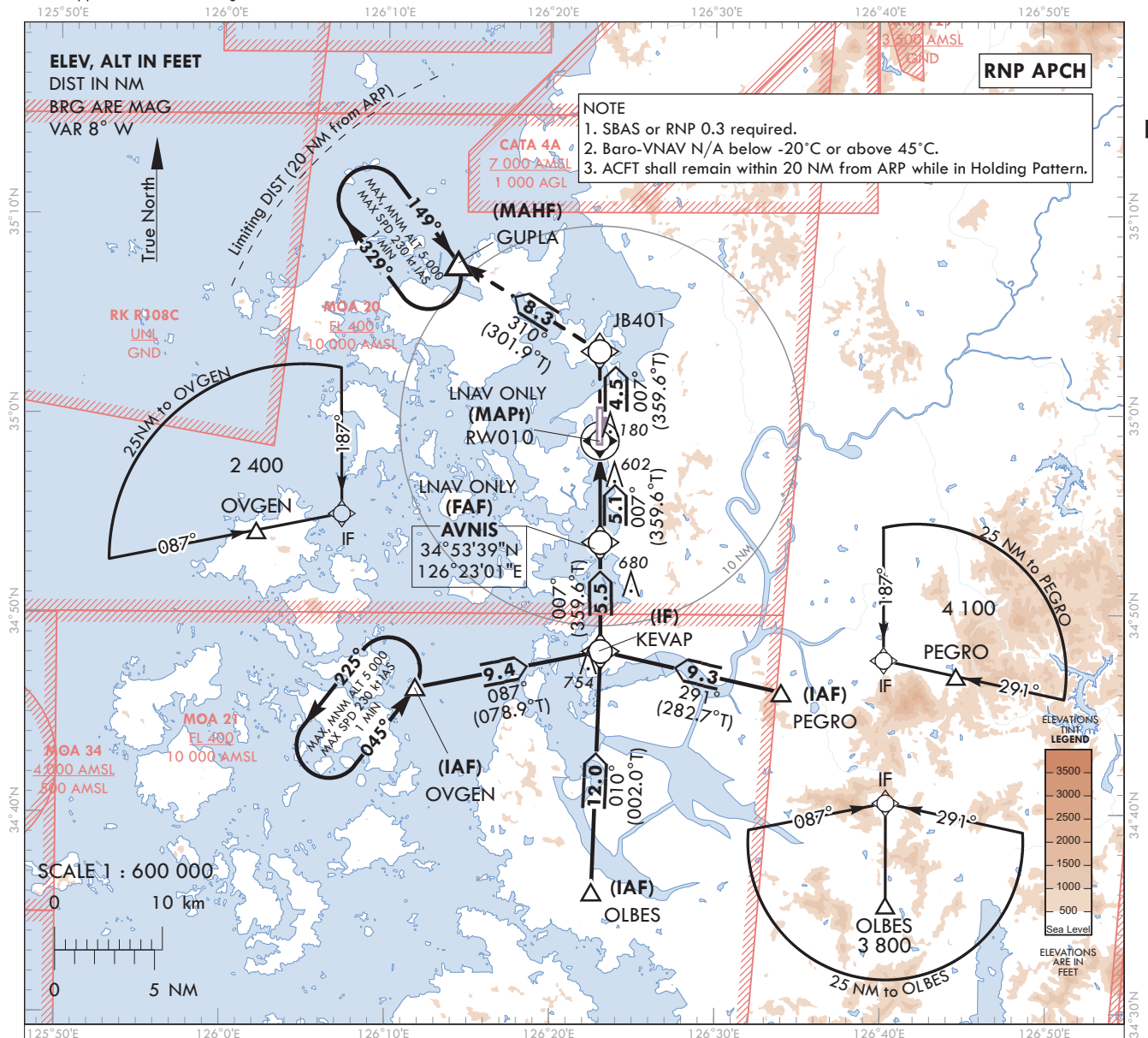
|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

KASS  
CH86099  
K01A  
RDH : 50

**MUAN/Muan Intl(RKJB)**

**RNP RWY 01**

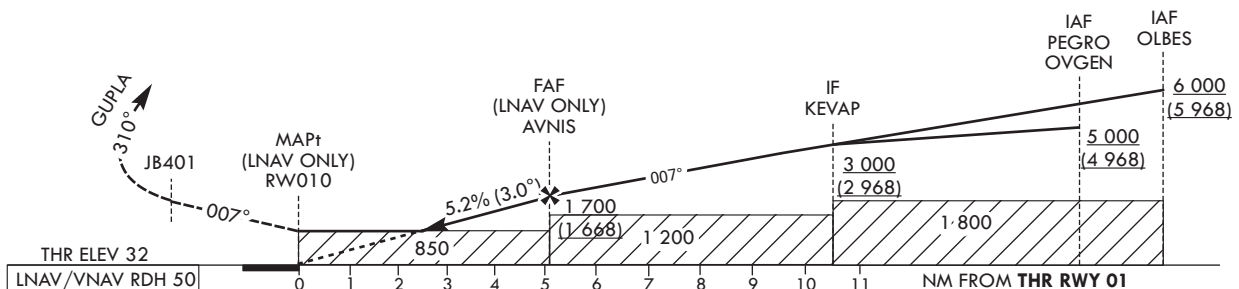
Note : Approach under ICAO Flight Procedure.



TRANSITION ALT 14 000  
TRANSITION LVL FL 140

**MISSED APPROACH**

Climb to 5 000 ft on track of 007° to JB401,  
then LEFT turn on track of 310° to GUPLA.  
Hold as published.



| CATEGORY |           |          | DA(H)/MDA(H) | A       | B | C | D |                                            |       |    |    |     |     |     |
|----------|-----------|----------|--------------|---------|---|---|---|--------------------------------------------|-------|----|----|-----|-----|-----|
| STA      | LPV       | FULL     | 320          | 700 m   |   |   |   | Rate of descent                            | Knots | 60 | 90 | 120 | 150 | 180 |
|          |           | ALS INOP | (288)        | 1 400 m |   |   |   |                                            |       |    |    |     |     |     |
|          | LNAV/VNAV | FULL     | 790          | 2 700 m |   |   |   |                                            |       |    |    |     |     |     |
|          |           | ALS INOP | (758)        | 3 500 m |   |   |   |                                            |       |    |    |     |     |     |
|          | LNAV      | FULL     | 850          | 3 100 m |   |   |   |                                            |       |    |    |     |     |     |
|          |           | ALS INOP | (818)        | 3 800 m |   |   |   |                                            |       |    |    |     |     |     |
|          |           |          |              |         |   |   |   | * Timing Not authorized for defining MAPt. |       |    |    |     |     |     |
|          |           |          |              |         |   |   |   | * Circling Not authorized.                 |       |    |    |     |     |     |

Change : Establishment of SBAS procedure.

MUAN/Muan Intl(RKJB)  
RNP RWY 01  
HOLDING PROCEDURE

## AERONAUTICAL DATA TABULATION

## Instrument Approach Procedure Coding Tables

RNP RWY 01 - via OVGEN to KEVAPI(IF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| 001           | IF              | OVGEN               | -        | -                   | -             | -              | +5 000        | -          | 34°46'22.2"N 126°11'47.9"E | -       | RNP APCH                 | IAF     |
| 002           | TF              | KEVAP               | -        | 087(078.9)          | 9.4           | -              | +3 000        | -          | 34°48'10.9"N 126°23'03.3"E | -       | RNP APCH                 | IF      |

RNP RWY 01 - via OLBES to KEVAPI(IF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| 001           | IF              | OLBES               | -        | -                   | -             | -              | +6 000        | -          | 34°36'08.1"N 126°22'32.0"E | -       | RNP APCH                 | IAF     |
| 002           | TF              | KEVAP               | -        | 010(002.0)          | 12.0          | -              | +3 000        | -          | 34°48'10.9"N 126°23'03.3"E | -       | RNP APCH                 | IF      |

RNP RWY 01 - via PEGRO to KEVAPI(IF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| 001           | IF              | PEGRO               | -        | -                   | -             | -              | +5 000        | -          | 34°46'09.0"N 126°34'02.1"E | -       | RNP APCH                 | IAF     |
| 002           | TF              | KEVAP               | -        | 291(282.7)          | 9.3           | -              | +3 000        | -          | 34°48'10.9"N 126°23'03.3"E | -       | RNP APCH                 | IF      |

RNP RWY 01 - via KEVAPI(IF) to GUPLA(MAHF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                  | VPA/RDH  | Navigation specification | Remarks                    |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|------------------------------|----------|--------------------------|----------------------------|
| 002           | TF              | KEVAP               | -        | -                   | -             | -              | +3 000        | -          | 34°48'10.9"N 126°23'03.3"E   | -        | RNP APCH                 | IF                         |
| 003           | TF              | AVNIS               | -        | 007(359.6)          | 5.5           | -              | +1 700        | -          | 34°53'38.8"N 126°23'00.8"E   | -        | RNP APCH                 | FAF                        |
| 004           | TF              | RW010               | Y        | 007(359.6)          | 5.1           | -              | +850          | -          | 34°58'43.64"N 126°22'58.45"E | -3.00/50 | RNP APCH                 | MAPt                       |
| 005           | TF              | JB401               | -        | 007(359.6)          | 4.5           | -              | -             | -          | 35°03'13.1"N 126°22'56.4"E   | -        | RNP APCH                 | -                          |
| 006           | TF              | GUPLA               | Y        | 310(301.9)          | 8.3           | -              | -             | -          | 35°07'37.8"N 126°14'18.1"E   | -        | RNP APCH                 | -                          |
| 007           | HM              | GUPLA               | Y        | 149(141.1)          | -             | R              | @5 000        | -230       | 35°07'37.8"N 126°14'18.1"E   | -        | RNP APCH                 | 1 MIN<br>(Outbound timing) |

## HOLDING PROCEDURE

| Holding Identification | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Time (min) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|------------------------|-----------------|---------------------|----------|---------------------|------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| RNP RWY 01             | HM              | OVGEN               | Y        | 045 (037.0)         | 1          | L              | @5 000        | -230       | 34°46'22.2"N 126°11'47.9"E | -       | RNAV 1                   | -       |

MUAN/Muan Intl(RKJB)  
RNP RWY 01

## FAS DATA BLOCK INFORMATION

## INPUT DATA

| Parameters                           | Values           |
|--------------------------------------|------------------|
| Operation Type                       | 0                |
| SBAS Provider                        | 6 (KASS)         |
| Airport Identifier                   | RKJB             |
| Runway                               | 01               |
| Runway Letter                        | 0 (None)         |
| Approach Performance Designator      | 0                |
| Route Indicator                      |                  |
| Reference Path Data Selector         | 0                |
| Reference Path Identifier            | K01A             |
| LTP/FTP Latitude                     | 34°58'43.6370"N  |
| LTP/FTP Longitude                    | 126°22'58.4515"E |
| LTP/FTP Ellipsoidal Height (metres)  | 33.6             |
| FPAP Latitude                        | 35°00'14.4945"N  |
| Delta FPAP Latitude (seconds)        | 90.8575          |
| FPAP Longitude                       | 126°22'57.8165"E |
| Delta FPAP Longitude (seconds)       | -0.6350          |
| Threshold Crossing Height (TCH)      | 50.0             |
| TCH Units Selector                   | 0 (Feet)         |
| Glidepath Angle (GPA, degrees)       | 3.00             |
| Course Width (metres)                | 105.00           |
| Length Offset (metres)               | 0                |
| Horizontal Alert Limit (HAL, meters) | 40.0             |
| Vertical Alert Limit (VAL, meters)   | 50.0             |

## OUTPUT DATA

|                      |                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Data Block           | 60 02 0A 0B 12 01 00 00 01 31 30<br>0B 6A E2 02 0F 27 D7 3C 36 50 15<br>D3 C5 02 0A FB FF F4 01 2C 01 64<br>00 C8 FA F7 D9 C7 7B |
| Calculated CRC Value | F7D9C77B                                                                                                                         |

Change : Establishment of FAS data block information.

**INTENTIONALLY**

**LEFT**

**BLANK**

**INSTRUMENT  
APPROACH  
CHART - ICAO**

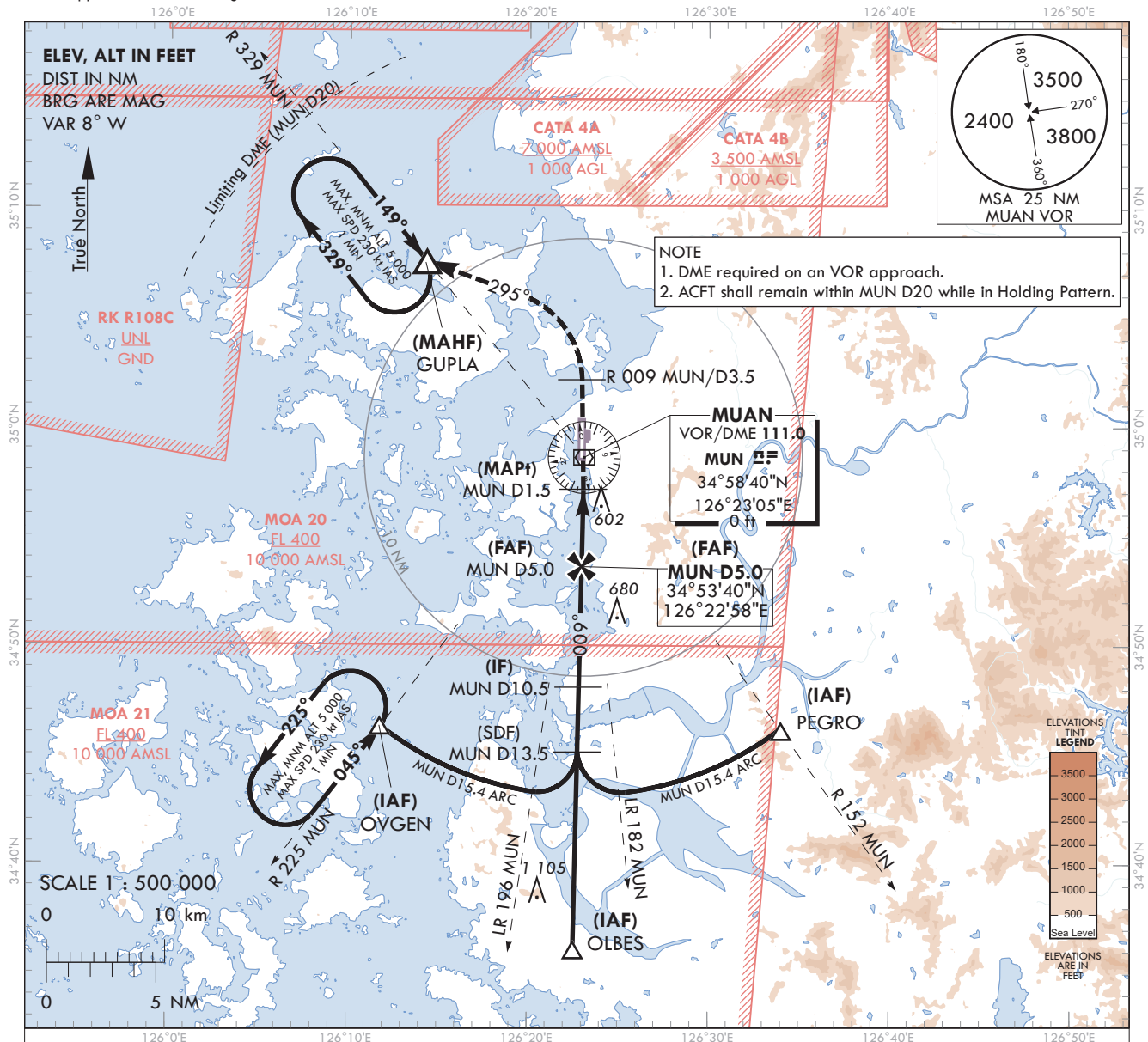
**AERODROME ELEV 51 ft**  
HEIGHTS RELATED TO  
THR RWY 01 - ELEV 32 ft

|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

**MUAN/Muan Intl(RKJB)**

**VOR RWY 01**

Note : Approach under ICAO Flight Procedures.

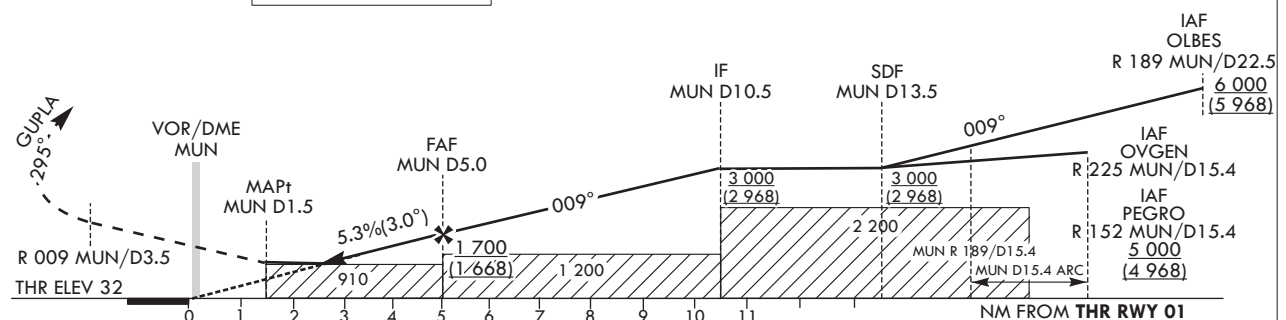


| RECOMMENDED PROFILE                      | DME MUN  | 4                | 3                | 2.5          |
|------------------------------------------|----------|------------------|------------------|--------------|
| Final Approach Gradient 5.26%, 320 ft/NM | ALT(HGT) | 1 381<br>(1 349) | 1 061<br>(1 029) | 910<br>(878) |

**MISSED APPROACH**

Climb to R 009 MUN/D3.5, then turn left HDG 295° to GUPLA and Hold at 5 000 ft.

TRANSITION ALT 14 000  
TRANSITION LVL FL 140



| CATEGORY |          | MDA/(MDH)    | A      | B | C | D |                                                                          | Knots      | 60  | 90  | 120 | 150 | 180 |
|----------|----------|--------------|--------|---|---|---|--------------------------------------------------------------------------|------------|-----|-----|-----|-----|-----|
| STA      | FULL     | 910<br>(878) | 3 300m |   |   |   | Rate of descent                                                          | V/V<br>fpm | 320 | 480 | 640 | 799 | 959 |
|          | ALS INOP |              | 4 000m |   |   |   | * Circling Not authorized.<br>* Timing Not authorized for defining MAPt. |            |     |     |     |     |     |
|          |          |              |        |   |   |   |                                                                          |            |     |     |     |     |     |

Change : Amended phrases(procedure → procedures, IMUN → MUN).

MUAN/Muan Intl(RKJB)  
VOR RWY 01

## AERONAUTICAL DATA TABULATION

| VOR Approach to RWY 01 from OVGEN, OLBES or PEGRO |                                    |               |                |
|---------------------------------------------------|------------------------------------|---------------|----------------|
| Fix/point                                         |                                    | Coordinates   |                |
| OVGEN(IAF)                                        | R 225 MUN /15.4 NM MUN             | 34°46'22.2"N  | 126°11'47.9"E  |
| OLBES(IAF)                                        | R 189 MUN /22.5 NM MUN             | 34°36'08.1"N  | 126°22'32.0"E  |
| PEGRO(IAF)                                        | R 152 MUN /15.4 NM MUN             | 34°46'09.0"N  | 126°34'02.1"E  |
| D13.5 MUN(SDF)                                    | R 189 MUN/13.5 NM MUN              | 34°45'08.9"N  | 126°22'45.3"E  |
| D10.5 MUN(IF)                                     | R 189 MUN/10.5 NM MUN              | 34°48'09.1"N  | 126°22'49.8"E  |
| D5.0 MUN(FAF)                                     | R 189 MUN/5.0 NM MUN               | 34°53'39.6"N  | 126°22'57.9"E  |
| D1.5 MUN(MAPt)                                    | R 189 MUN/1.5 NM MUN               | 34°57'09.9"N  | 126°23'03.1"E  |
| MUN VOR/DME                                       |                                    | 34°58'40.0"N  | 126°23'05.4"E  |
| THR RWY 01                                        | Final approach descent angle 3.01° | 34°58'43.64"N | 126°22'58.45"E |
| D3.5 MUN                                          | R 009 MUN /3.5 NM MUN              | 35°02'10.2"N  | 126°22'57.2"E  |
| GUPLA                                             | HDG 294.81/11.5 NM MUN             | 35°07'37.8"N  | 126°14'18.1"E  |

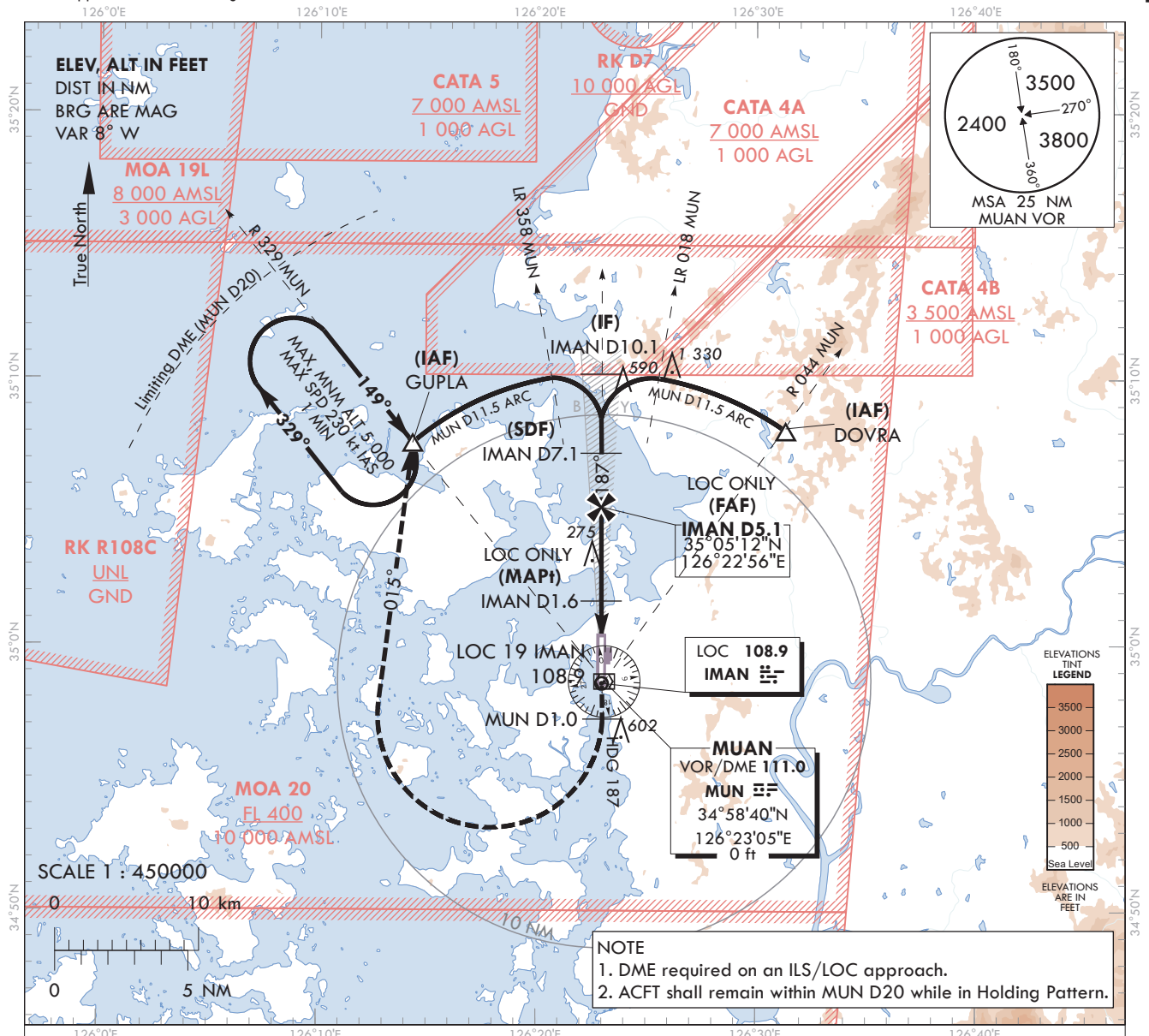
INSTRUMENT  
APPROACH  
CHART - ICAOAERODROME ELEV 51 ft  
HEIGHTS RELATED TO  
THR RWY 19 - ELEV 51 ft

|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

MUAN/Muan Intl(RKJB)

ILS Y or LOC Y RWY 19

Note : Approach under ICAO Flight Procedures.



| RECOMMENDED PROFILE(LOC ONLY)            |  | DME IMAN     | 5                | 4                | 3              | 2            | 1.7          | MISSED APPROACH<br>Climb on HDG 187° to MUN D1.0 then turn right<br>HDG 015° to GUPLA and Hold at 5 000 ft. |
|------------------------------------------|--|--------------|------------------|------------------|----------------|--------------|--------------|-------------------------------------------------------------------------------------------------------------|
| Final Approach Gradient 5.31%, 323 ft/NM |  | ALT<br>(HGT) | 1 660<br>(1 609) | 1 338<br>(1 287) | 1 015<br>(964) | 692<br>(641) | 590<br>(539) |                                                                                                             |

TRANSITION ALT 14 000  
TRANSITION LVL FL 140

NM FROM **THR RWY 19**

| CATEGORY |                    |          | DA(DH)/<br>MDA(MDH) | A                    | B | C | D |                                                                          |         |     |     |     |     |     |
|----------|--------------------|----------|---------------------|----------------------|---|---|---|--------------------------------------------------------------------------|---------|-----|-----|-----|-----|-----|
| STA      | CAT-I<br>(CG 2.5%) | FULL     | 414<br>(363)        | 1 200 m              |   |   |   | Rate of<br>descent                                                       | Knots   | 60  | 90  | 120 | 150 | 180 |
|          |                    | ALS INOP |                     | 1 900 m              |   |   |   |                                                                          | V/V fpm | 318 | 478 | 637 | 796 | 955 |
|          | CAT-I<br>(CG 5.0%) | FULL     | 251<br>(200)        | RVR 550 m, VIS 800 m |   |   |   |                                                                          |         |     |     |     |     |     |
|          |                    | ALS INOP |                     | 1 200 m              |   |   |   |                                                                          |         |     |     |     |     |     |
|          | LOC                | FULL     | 590<br>(539)        | 2 000 m              |   |   |   |                                                                          |         |     |     |     |     |     |
|          |                    | ALS INOP |                     | 2 700 m              |   |   |   |                                                                          |         |     |     |     |     |     |
|          |                    |          |                     |                      |   |   |   | * Timing Not authorized for defining MAPt.<br>* Circling Not authorized. |         |     |     |     |     |     |

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)  
ILS Y or LOC Y RWY 19

## AERONAUTICAL DATA TABULATION

| ILS Y or LOC Y Approach to RWY 19 from GUPLA or DOVRA |                                              |               |                |
|-------------------------------------------------------|----------------------------------------------|---------------|----------------|
| Fix/point                                             |                                              | Coordinates   |                |
| GUPLA(IAF)                                            | R 329 MUN /11.5 NM MUN                       | 35°07'37.8"N  | 126°14'18.1"E  |
| DOVRA(IAF)                                            | R 044 MUN /11.5 NM MUN                       | 35°07'57.8"N  | 126°31'22.0"E  |
| D10.1 IMAN(IF)                                        | BRG 187.14°/10.14 NM IMAN                    | 35°10'11.0"N  | 126°22'53.2"E  |
| D7.1 IMAN(SDF)                                        | BRG 187.14°/7.14 NM IMAN                     | 35°07'13.4"N  | 126°22'54.7"E  |
| D5.1 IMAN(FAF LOC ONLY)                               | BRG 187.14°/5.12 NM IMAN                     | 35°05'12.3"N  | 126°22'55.7"E  |
| D1.6 IMAN(MAPt LOC ONLY)                              | BRG 187.14°/1.60 NM IMAN                     | 35°01'40.5"N  | 126°22'57.2"E  |
| THR RWY 19                                            | Final approach descent angle 3.04°(LOC ONLY) | 35°00'14.49"N | 126°22'57.82"E |
| IMAN DME                                              |                                              | 35°00'04.3"N  | 126°22'53.3"E  |
| IMAN LOC                                              |                                              | 34°58'35.0"N  | 126°22'58.5"E  |
| MUN VOR/DME                                           |                                              | 34°58'40.0"N  | 126°23'05.4"E  |
| D1.0 MUN                                              | HDG 187                                      | -             |                |
| GUPLA                                                 | HDG 015/11.5 NM MUN                          | 35°07'37.8"N  | 126°14'18.1"E  |

|         |     |         |        |
|---------|-----|---------|--------|
| GWANGJU | APP | 120.475 | 130.0  |
|         |     | 228.9   | 265.5  |
| MUAN    | TWR | 118.25  | 118.85 |

**ILS Z or LOC Z RWY 19**

**ELEV. ALT IN FEET**  
DIST IN NM  
BRG ARE MAG  
VAR 8° W

**CATA 5**  
7 000 AMSL  
1 000 AGL

**CATA 4A**  
7 000 AMSL  
1 000 AGL

**CATA 4B**  
3 500 AMSL  
1 000 AGL

**RK R129**  
3 500 AMSL  
GND

**RK R108C**  
UNL  
GND

**MOA 20**  
FL 400  
10 000 AMSL

**(MAHF) GUPLA**

**IF**

**LOC ONLY (FAF)**  
**IMAN D5.1**  
35°05'12"N  
126°22'56"E

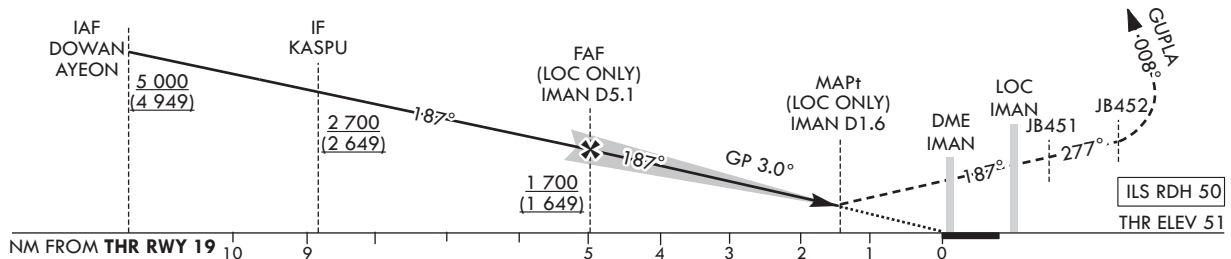
**LOC ONLY (MAPt)**  
**IMAN D1.6**

**LOC 108.9 IMAN**

**NOTE**  
1. RNAV 1 operation.  
2. GNSS required.  
3. ATS surveillance service required.  
4. DME required on a LOC approach.  
5. Cross KASPU at 220 kt IAS or less.  
6. ACFT shall remain within 20 NM from ARP while in Holding Pattern.

| RECOMMENDED PROFILE(LOC ONLY)            | DME IMAN | 5                | 4                | 3              | 2            | 1.7          |
|------------------------------------------|----------|------------------|------------------|----------------|--------------|--------------|
| Final Approach Gradient 5.31%, 323 ft/NM | ALT(HGT) | 1 660<br>(1 609) | 1 338<br>(1 287) | 1 015<br>(964) | 692<br>(641) | 590<br>(539) |

|                |        |
|----------------|--------|
| TRANSITION ALT | 14 000 |
| TRANSITION LVL | FL 140 |



| CATEGORY |                    |          | DA(DH)/<br>MDA(MDH) | A                    | B | C | D |                    |                                                                          |     |     |     |     |     |
|----------|--------------------|----------|---------------------|----------------------|---|---|---|--------------------|--------------------------------------------------------------------------|-----|-----|-----|-----|-----|
| STA      | CAT-I<br>(CG 2.5%) | FULL     | 414                 | 1 200 m              |   |   |   | Rate of<br>descent | Knots                                                                    | 60  | 90  | 120 | 150 | 180 |
|          |                    | ALS INOP | (363)               | 1 900 m              |   |   |   |                    | V/V fpm                                                                  | 318 | 478 | 637 | 796 | 955 |
|          | CAT-I<br>(CG 5.0%) | FULL     | 251                 | RVR 550 m, VIS 800 m |   |   |   |                    | * Timing Not authorized for defining MAPt.<br>* Circling Not authorized. |     |     |     |     |     |
|          |                    | ALS INOP | (200)               | 1 200 m              |   |   |   |                    |                                                                          |     |     |     |     |     |
|          | LOC                | FULL     | 590                 | 2 000 m              |   |   |   |                    |                                                                          |     |     |     |     |     |
|          |                    | ALS INOP | (539)               | 2 700 m              |   |   |   |                    |                                                                          |     |     |     |     |     |

AIP AMDT 1/24

MUAN/Muan Intl(RKJB)  
ILS Z or LOC Z RWY 19

## AERONAUTICAL DATA TABULATION

| ILS Z or LOC Z Approach to RWY 19 from AYEON or DOWAN |                                               |               |                |
|-------------------------------------------------------|-----------------------------------------------|---------------|----------------|
| Fix/point                                             |                                               | Coordinates   |                |
| AYEON(IAF)                                            |                                               | 35°09'10.2"N  | 126°12'32.1"E  |
| DOWAN(IAF)                                            |                                               | 35°09'16.1"N  | 126°33'16.0"E  |
| KASPU(IF)                                             |                                               | 35°09'07.5"N  | 126°22'54.1"E  |
| D5.1 IMAN(FAF LOC ONLY)                               | BRG 187.14°/5.12 NM IMAN                      | 35°05'12.3"N  | 126°22'55.7"E  |
| D1.6 IMAN(MAPt LOC ONLY)                              | BRG 187.14°/1.60 NM IMAN                      | 35°01'40.5"N  | 126°22'57.2"E  |
| THR RWY 19                                            | Final approach descent angle 3.04° (LOC ONLY) | 35°00'14.49"N | 126°22'57.82"E |
| IMAN DME                                              |                                               | 35°00'04.3"N  | 126°22'53.3"E  |
| IMAN LOC                                              |                                               | 34°58'35.0"N  | 126°22'58.5"E  |
| JB451                                                 |                                               | 34°53'13.8"N  | 126°23'01.0"E  |
| JB452                                                 |                                               | 34°53'10.9"N  | 126°14'17.1"E  |
| GUPLA                                                 |                                               | 35°07'37.8"N  | 126°14'18.1"E  |

**INSTRUMENT  
APPROACH  
CHART - ICAO**

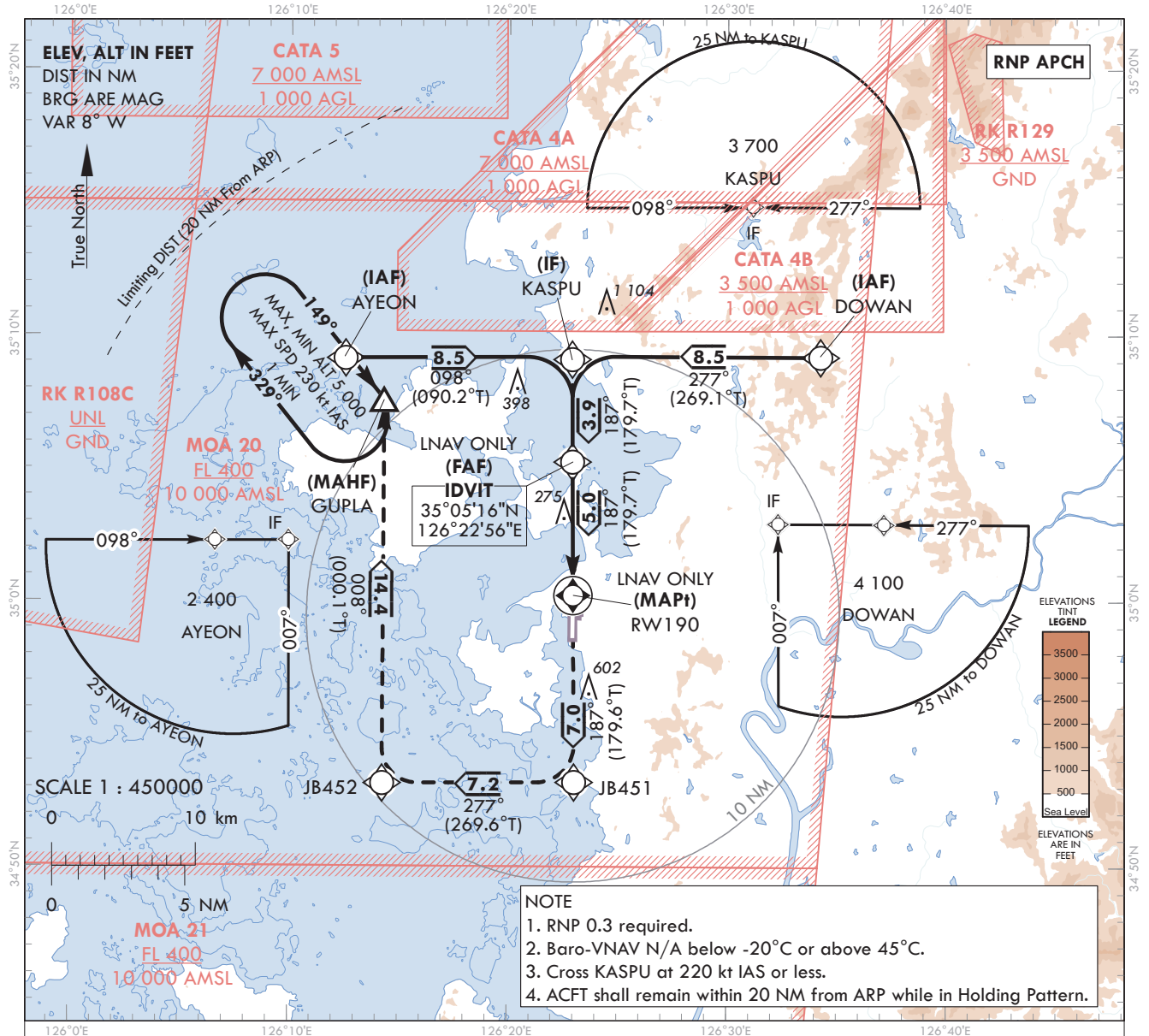
**AERODROME ELEV 51 ft**  
HEIGHTS RELATED TO  
THR RWY 19 - ELEV 51 ft

|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

**MUAN/Muan Intl(RKJB)**

**RNP RWY 19**

Note : Approach under ICAO Flight Procedures.



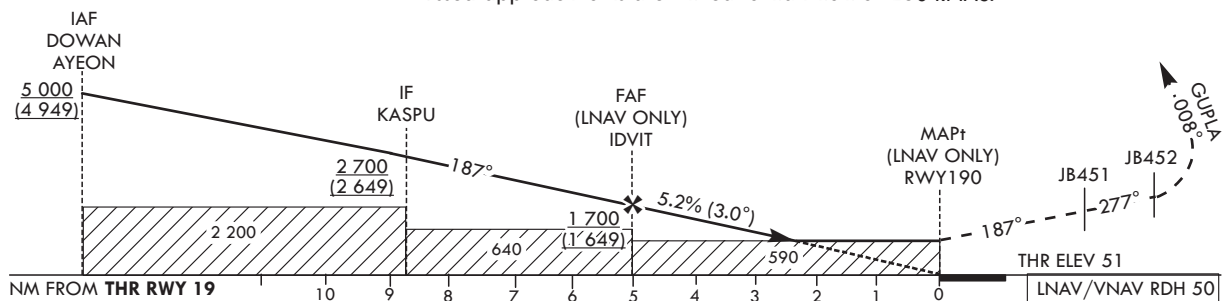
TRANSITION ALT 14 000  
TRANSITION LVL FL 140

**MISSED APPROACH**

Climb to 5 000 ft on track of 187° to JB451, RIGHT turn on track of 277° to JB452, Then RIGHT turn on track of 008° to GUPLA.

Hold as published.

\* Missed approach turns are limited to maximum of 230 kt IAS.



| CATEGORY |            |          | DA(H)/<br>MDA(H) | A       | B | C | D |                                                                          | Knots   | 60  | 90  | 120 | 150 | 180 |
|----------|------------|----------|------------------|---------|---|---|---|--------------------------------------------------------------------------|---------|-----|-----|-----|-----|-----|
| STA      | LNNAV/VNAV | FULL     | 460              | 1 200 m |   |   |   | Rate of<br>descent                                                       | V/V fpm | 319 | 478 | 637 | 797 | 957 |
|          |            | ALS INOP | (409)            | 1 900 m |   |   |   |                                                                          |         |     |     |     |     |     |
|          | LNNAV      | FULL     | 590              | 1 700 m |   |   |   | * Timing Not authorized for defining MAPt.<br>* Circling Not authorized. |         |     |     |     |     |     |
|          |            | ALS INOP | (539)            | 2 400 m |   |   |   |                                                                          |         |     |     |     |     |     |

Change : Amended phrase(procedure → procedures).

## AERONAUTICAL DATA TABULATION

## Instrument Approach Procedure Coding Tables

RNP RWY 19 - via DOWAN to KASPU(IF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| 001           | IF              | DOWAN               | -        | -                   | -             | -              | +5 000        | -          | 35°09'16.1"N 126°33'16.0"E | -       | RNP APCH                 | IAF     |
| 002           | TF              | KASPU               |          | 277(269.1)          | 8.5           | -              | +2 700        | -220       | 35°09'07.5"N 126°22'54.1"E | -       | RNP APCH                 | IF      |

RNP RWY 19 - via AYEON to KASPU(IF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                | VPA/RDH | Navigation specification | Remarks |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|----------------------------|---------|--------------------------|---------|
| 001           | IF              | AYEON               | -        | -                   | -             | -              | +5 000        | -          | 35°09'10.2"N 126°12'32.1"E | -       | RNP APCH                 | IAF     |
| 002           | TF              | KASPU               | -        | 098(090.2)          | 8.5           | -              | +2 700        | -220       | 35°09'07.5"N 126°22'54.1"E | -       | RNP APCH                 | IF      |

RNP RWY 19 - via KASPU(IF) to GUPLA(MAHF)

| Serial Number | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates                  | VPA/RDH  | Navigation specification | Remarks                               |
|---------------|-----------------|---------------------|----------|---------------------|---------------|----------------|---------------|------------|------------------------------|----------|--------------------------|---------------------------------------|
| 002           | TF              | KASPU               | -        | -                   | -             | -              | +2 700        | -220       | 35°09'07.5"N 126°22'54.1"E   | -        | RNP APCH                 | IF                                    |
| 003           | TF              | IDVIT               | -        | 187(179.7)          | 3.9           | -              | +1 700        | -          | 35°05'15.9"N 126°22'55.7"E   | -        | RNP APCH                 | FAF                                   |
| 004           | TF              | RW190               | Y        | 187(179.7)          | 5.0           | -              | +590          | -          | 35°00'14.49"N 126°22'57.82"E | -3.00/50 | RNP APCH                 | MAPt                                  |
| 005           | TF              | JB451               | -        | 187(179.6)          | 7.0           | -              | -             | -230       | 34°53'13.8"N 126°23'01.0"E   | -        | RNP APCH                 | -                                     |
| 006           | TF              | JB452               | -        | 277(269.6)          | 7.2           | -              | -             | -230       | 34°53'10.9"N 126°14'17.1"E   | -        | RNP APCH                 | -                                     |
| 007           | TF              | GUPLA               | Y        | 008(000.1)          | 14.4          | -              | -             | -230       | 35°07'37.8"N 126°14'18.1"E   | -        | RNP APCH                 | -                                     |
| 008           | HM              | GUPLA               | Y        | 149(141.1)          | -             | R              | @5 000        | -230       | 35°07'37.8"N 126°14'18.1"E   | -        | RNP APCH                 | <sup>1</sup> MIN<br>(Outbound timing) |

**INSTRUMENT  
APPROACH  
CHART - ICAO**

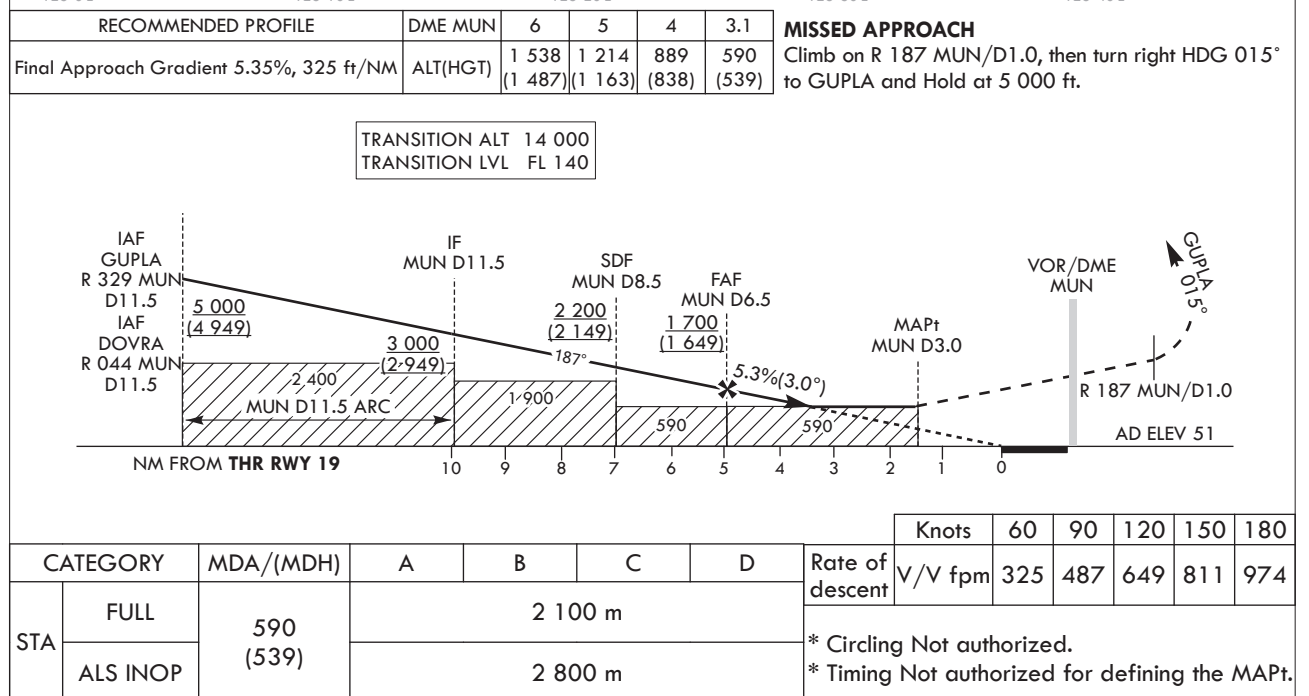
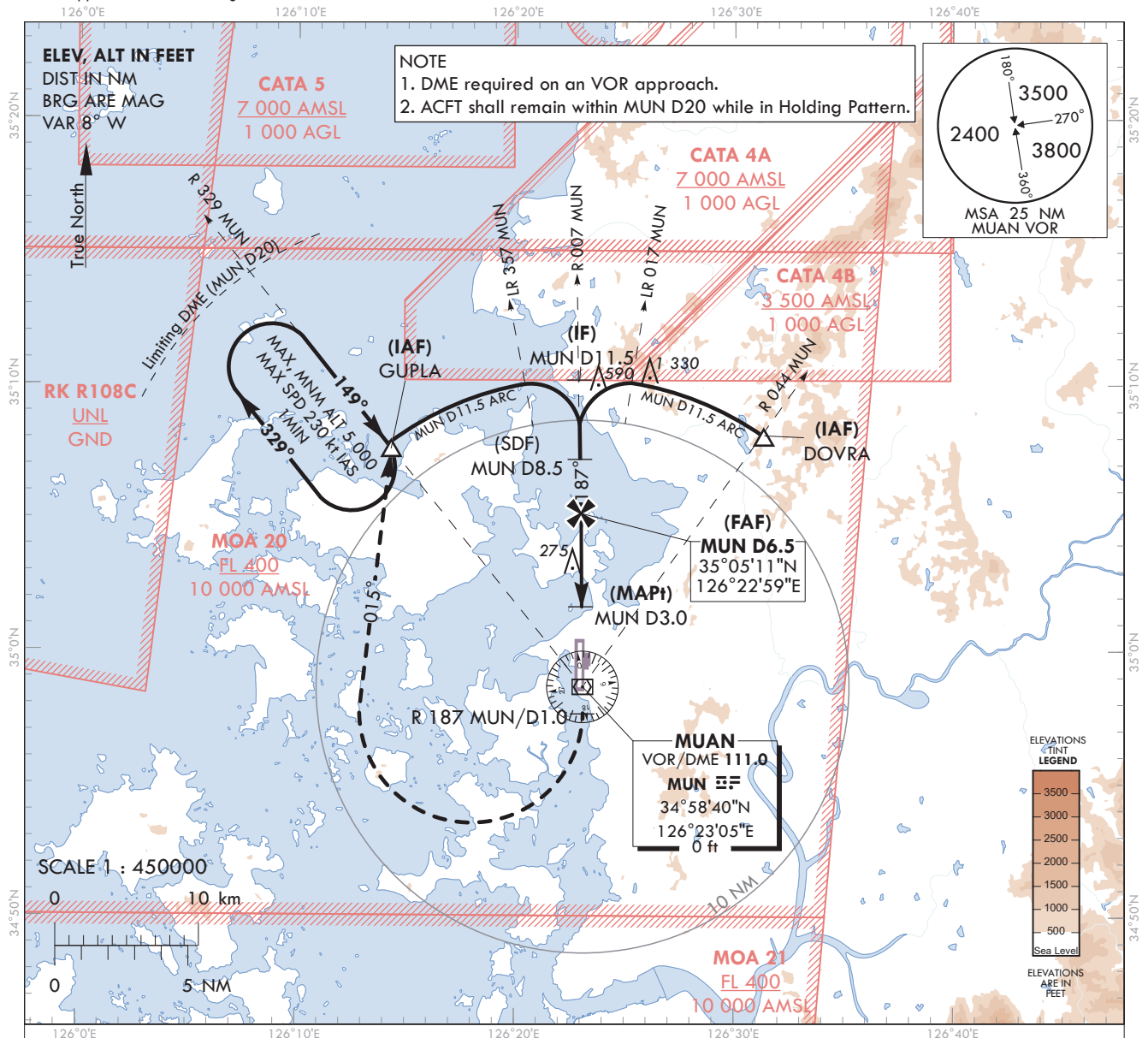
Note : Approach under ICAO Flight Procedures.

**AERODROME ELEV 51 ft**  
HEIGHTS RELATED TO AD ELEV

|             |         |        |
|-------------|---------|--------|
| GWANGJU APP | 120.475 | 130.0  |
|             | 228.9   | 265.5  |
| MUAN TWR    | 118.25  | 118.85 |

**MUAN/Muan Intl(RKJB)**

**VOR RWY 19**



Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)  
VOR RWY 19

## AERONAUTICAL DATA TABULATION

| VOR Approach to RWY 19 from GUPLA or DOVRA |                                    |               |                |
|--------------------------------------------|------------------------------------|---------------|----------------|
| Fix/point                                  |                                    | Coordinates   |                |
| GUPLA(IAF)                                 | R 329 MUN /11.5 NM MUN             | 35°07'37.8"N  | 126°14'18.1"E  |
| DOVRA(IAF)                                 | R 044 MUN /11.5 NM MUN             | 35°07'57.8"N  | 126°31'22.0"E  |
| D11.5 MUN(IF)                              | R 007 MUN/11.5 NM MUN              | 35°10'11.0"N  | 126°22'53.2"E  |
| D8.5 MUN(SDF)                              | R 007 MUN/8.5 NM MUN               | 35°07'13.6"N  | 126°22'56.3"E  |
| D6.5 MUN(FAF)                              | R 007 MUN/6.5 NM MUN               | 35°05'10.6"N  | 126°22'59.5"E  |
| D3.0 MUN(MAPt)                             | R 007 MUN/3.0 NM MUN               | 35°01'40.2"N  | 126°23'02.2"E  |
| THR RWY 19                                 | Final approach descent angle 3.06° | 35°00'14.49"N | 126°22'57.82"E |
| MUN VOR/DME                                |                                    | 34°58'40.0"N  | 126°23'05.4"E  |
| D1.0 MUN                                   | R 187 MUN /1.0 NM MUN              | 34°57'39.9"N  | 126°23'06.3"E  |
| GUPLA                                      | HDG 014.75/11.5 NM MUN             | 35°07'37.8"N  | 126°14'18.1"E  |