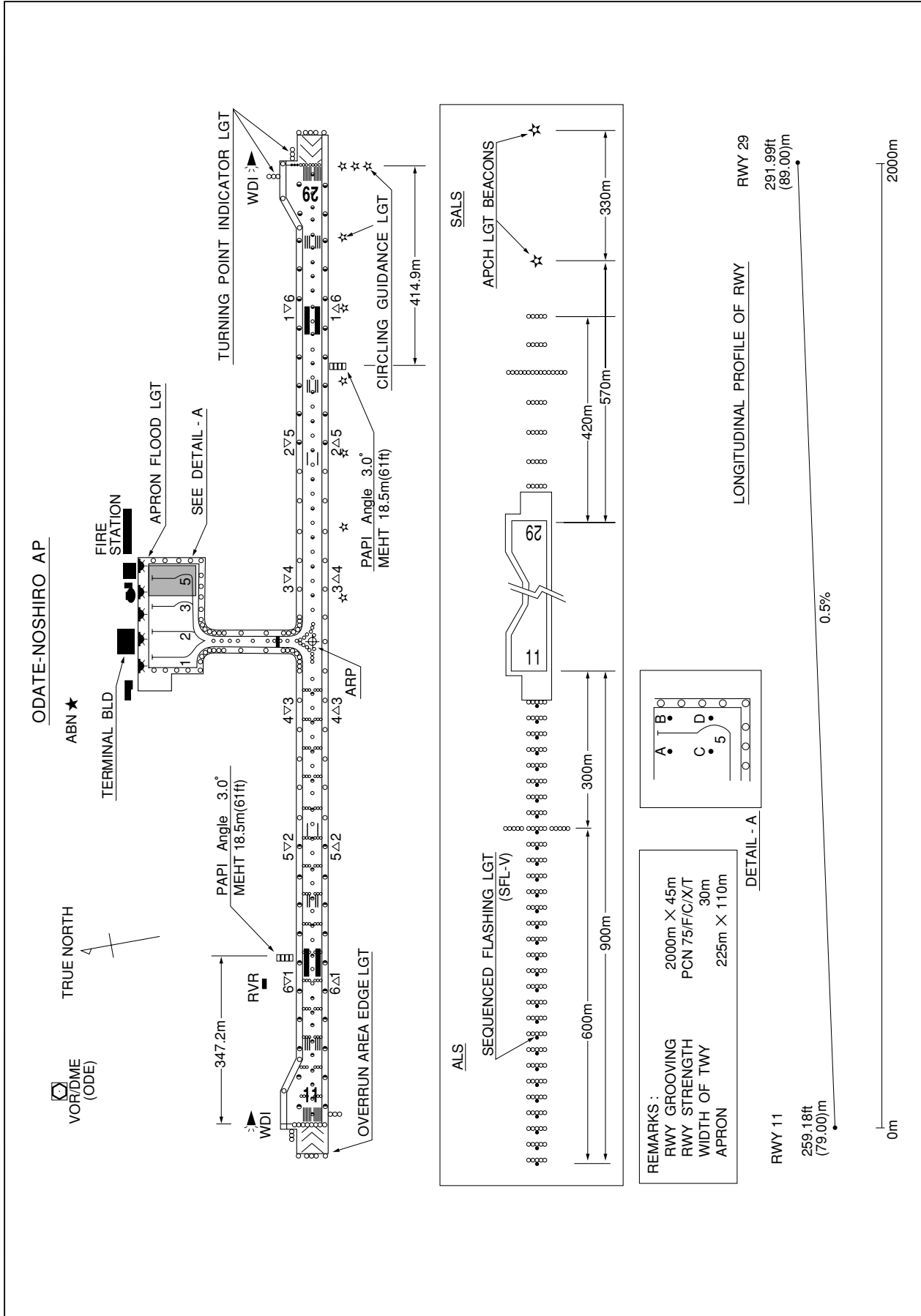


RJSR / ODATE-NOSHIRO

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

ODATE REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to 6.0DME, turn left, direct to ODE VOR/DME.

Cross ODE VOR/DME at or above 6000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

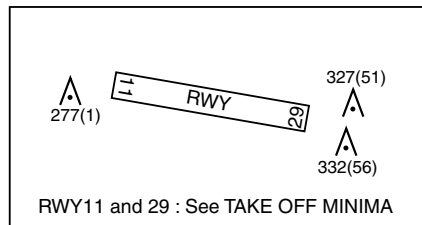
OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

ODATE REVERSAL TWO DEPARTURE



## STANDARD DEPARTURE CHART -INSTRUMENT

RJSR / ODATE-NOSHIRO

SID

LAGOON THREE DEPARTURE

RWY11 : Climb RWY HDG to 1800FT, turn right HDG332° to intercept and proceed...

RWY29 : Climb RWY HDG to ODE 3.0DME,...

...via ODE R287 to NOSSY, turn left, via UWE R360 to UWE VOR/DME.

Cross NOSSY at or above 3000FT.

Note RWY11 : 5.0% climb gradient required up to 1800FT.

OBST ALT 1313FT located at 4.3NM 093° FM end of RWY11.

OBST ALT 2100FT located at 9.5NM 137° FM end of RWY11.

RWY29 : 4.0% climb gradient required up to 700FT.

OBST ALT 656FT located at 2.1NM 276° FM end of RWY29.

LAGOON THREE DEPARTURE

STANDARD ARRIVAL CHART - INSTRUMENT

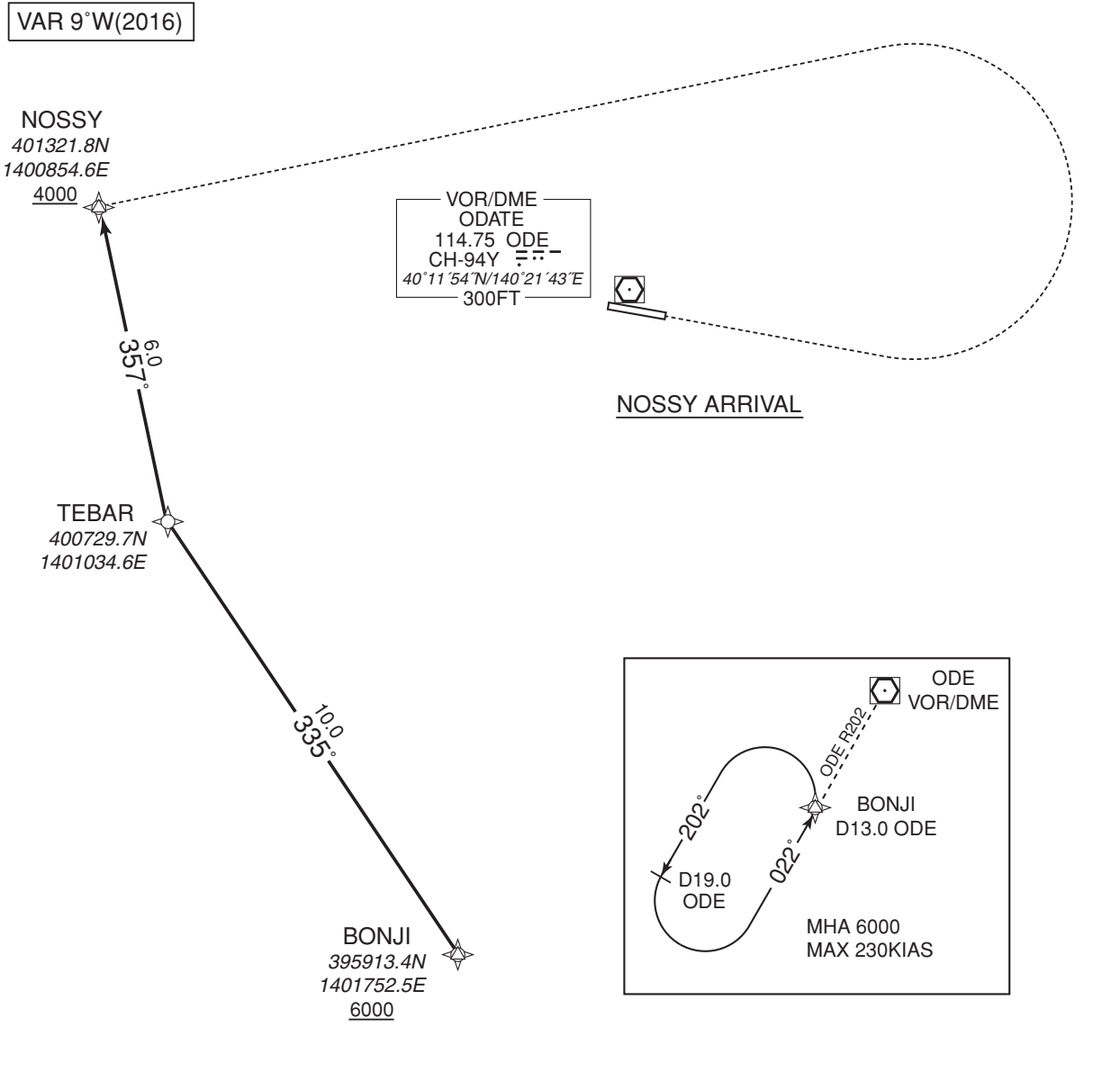
RJSR / ODATE-NOSHIRO

RNAV STAR RWY29

NOSSY ARRIVAL

Basic RNP1

Note GNSS required.



NOSSY ARRIVAL

From BONJI at or above 6000FT, to TEBAR, to NOSSY at or above 4000FT.

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | BONJI               | —        | —              | -8.8               | —             | —              | +6000         | —            | —              | Basic RNP1               |
| 002           | TF              | TEBAR               | —        | 335<br>(326.0) | -8.8               | 10.0          | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | NOSSY               | —        | 357<br>(347.8) | -8.8               | 6.0           | —              | +4000         | —            | —              | Basic RNP1               |

## RJSR / ODATE-NOSHIRO

ILS Z or LOC Z RWY11



## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

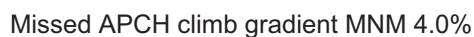
ILS Y or LOC Y RWY11



CHANGE : Call sign(REMOTE→RADIO), AFIS unit added.

## RJSR / ODATE-NOSHIRO

VOR A



| MINIMA |           | AD elev. 276 |
|--------|-----------|--------------|
| CAT    | CIRCLING  |              |
|        | MDA(H)    | VIS          |
| A      | 870 (594) | 1600         |
| B      |           |              |
| C      | 890 (614) | 2400         |
| D      | 920 (644) | 3200         |

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

## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

SAPPORO CONTROL  
127.575 - 315.3  
120.575 - 277.1

GNSS and RF required.

ODATE RADIO  
118.75  
AFIS provided  
by New Chitose Airport Office

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C

VAR 8°W (2011)

NOSSY  
(MAHF)

RW29

SR963

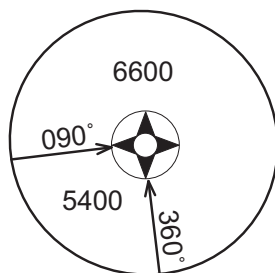
SR962

SR961  
(FAF)SR960  
(IF)  
3900MAGGY  
(IAF)  
6000ODATE  
(ODE)

NOT TO SCALE

MAGGY  
(IAF)  
D17.1ODEMHA6000  
MAX 230KIASMAGGY  
(IAF)

MSA RW29 25NM

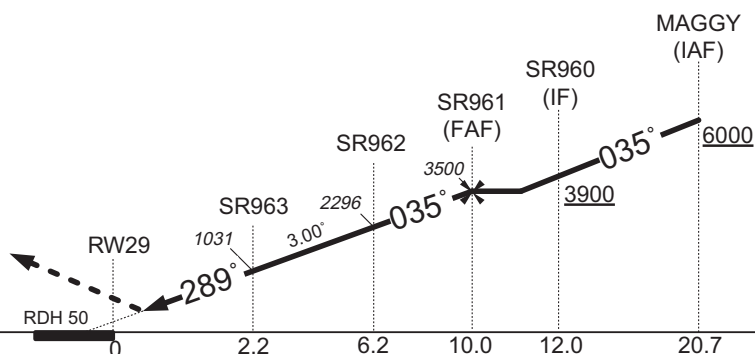


SR961(FAF) : 400434.91N/1402536.32E

## MISSED APPROACH

Climb to 4000FT, to NOSSY  
and hold.

Contact ODATE RADIO.



MINIMA THR elev. 292 AD elev. 276

| CAT | RNP 0.27 |      | RNP 0.30 |      |
|-----|----------|------|----------|------|
|     | DA(H)    | CMV  | DA(H)    | CMV  |
| A   | -        | -    | -        | -    |
| B   | -        | -    | -        | -    |
| C   | 592(300) | 1400 | 643(351) | 1400 |
| D   | -        | -    | -        | -    |

# RNP AR

Special Authorization Required

CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.



## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Z RWY29

RNAV(RNP) Z RWY29
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                                 | MAGGY               | —        | —               | -8.5               | —             | —              | +6000         | —            | —              | —            |
| 002           | TF                                 | SR960               | —        | 035<br>(026.1)  | -8.5               | 8.7           | —              | +3900         | —            | —              | 1.0          |
| 003           | TF                                 | SR961               | —        | 035<br>(026.1)  | -8.5               | 2.0           | —              | 3500          | —            | —              | 1.0          |
| 004           | TF                                 | SR962               | —        | 035<br>(026.1)  | -8.5               | 3.8           | —              | 2296          | —            | -3.00          | 0.27<br>0.30 |
| 005           | RF<br>Center:<br>SRRF1<br>r=2.15NM | SR963               | —        | —               | -8.5               | 4.0           | L              | 1031          | —            | -3.00          | 0.27<br>0.30 |
| 006           | TF                                 | RW29                | Y        | 289<br>(280.1)  | -8.5               | 2.2           | —              | 342           | —            | -3.00/50       | 0.27<br>0.30 |
| 007           | TF                                 | NOSSY               | —        | 289<br>(280.3)  | -8.5               | 10.9          | —              | 4000          | —            | —              | 1.0          |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| MAGGY               | 395456.61N / 1401926.80E | SRRF1                    | 400855.54N / 1402516.24E |
| SR960               | 400247.11N / 1402427.29E |                          |                          |
| SR961               | 400434.91N / 1402536.32E |                          |                          |
| SR962               | 400758.60N / 1402746.93E |                          |                          |
| SR963               | 401102.48N / 1402545.54E |                          |                          |
| RW29                | 401125.10N / 1402258.78E |                          |                          |
| NOSSY               | 401321.82N / 1400854.64E |                          |                          |

## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Y RWY29

SAPPORO CONTROL  
127.575 - 315.3  
120.575 - 277.1

GNSS and RF required.

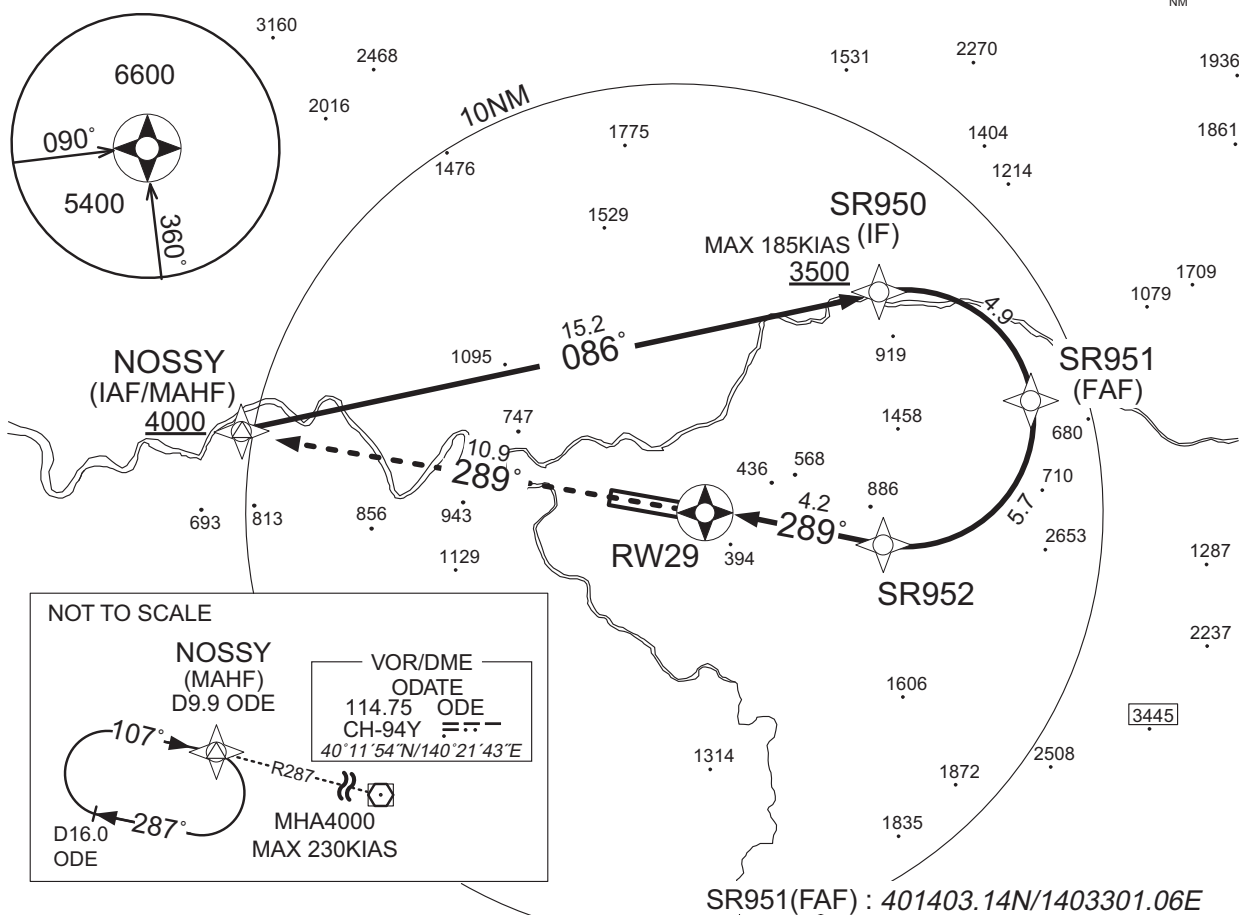
ODATE RADIO  
118.75  
AFIS provided  
by New Chitose Airport Office

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -15°C/above 45°C

VAR 8°W (2011)

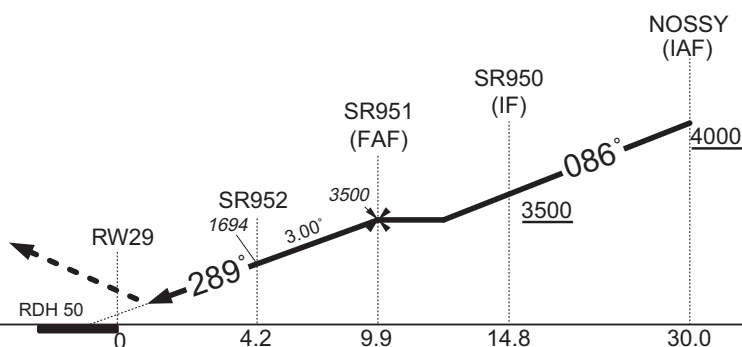
MSA RW29 25NM



## MISSED APPROACH

Climb to 4000FT, to NOSSY  
and hold.

Contact ODATE RADIO.



MINIMA THR elev. 292

AD elev. 276

| CAT | RNP 0.27 |      | RNP 0.30 |      |
|-----|----------|------|----------|------|
|     | DA(H)    | CMV  | DA(H)    | CMV  |
| A   | -        | -    | -        | -    |
| B   | -        | -    | -        | -    |
| C   | 592(300) | 1400 | 643(351) | 1400 |
| D   | -        | -    | -        | -    |

# RNP AR

Special Authorization Required

CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

## INSTRUMENT APPROACH CHART

RJSR / ODATE-NOSHIRO

RNAV(RNP) Y RWY29

RNAV(RNP) Y RWY29
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                                 | NOSSY               | —        | —               | -8.5               | —             | —              | +4000         | —            | —              | —            |
| 002           | TF                                 | SR950               | —        | 086<br>(077.7)  | -8.5               | 15.2          | —              | +3500         | -185         | —              | 1.0          |
| 003           | RF<br>Center:<br>SRRF2<br>r=3.00NM | SR951               | —        | —               | -8.5               | 4.9           | R              | 3500          | —            | —              | 1.0          |
| 004           | RF<br>Center:<br>SRRF2<br>r=3.00NM | SR952               | —        | —               | -8.5               | 5.7           | R              | 1694          | —            | -3.00          | 0.27<br>0.30 |
| 005           | TF                                 | RW29                | Y        | 289<br>(280.1)  | -8.5               | 4.2           | —              | 342           | —            | -3.00/50       | 0.27<br>0.30 |
| 006           | TF                                 | NOSSY               | —        | 289<br>(280.3)  | -8.5               | 10.9          | —              | 4000          | —            | —              | 1.0          |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| SR950               | 401634.48N / 1402818.75E | SRRF2                    | 401338.11N / 1402908.01E |
| SR951               | 401403.14N / 1403301.06E |                          |                          |
| SR952               | 401040.53N / 1402826.85E |                          |                          |
| RW29                | 401125.10N / 1402258.78E |                          |                          |
| NOSSY               | 401321.82N / 1400854.64E |                          |                          |

RJSR / ODATE-NOSHIRO

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(REMOTE→RADIO).

| Call sign            | BRG / DIST from ARP | Remarks   |
|----------------------|---------------------|---|
| 樹海ドーム<br>Jyukai Dome | 058°T / 11.6NM      | 大館市白色ドーム<br>White Dome Odate City                   |
| 藤琴<br>Fujikoto       | 314°T / 7.2NM       | 粕毛川・藤琴川交点<br>Intersection Kasuge and Fujikoto River |
| 鷹巣<br>Takanosu       | 357°T / 2.5NM       | JR駅北側<br>North of JR Station                        |
| 能代<br>Noshiro        | 272°T / 17.3NM      | 能代港<br>Noshiro Harbor                               |
| 米内沢<br>Yonaizawa     | 183°T / 4.2NM       | 内陸線米内沢駅南側米内沢橋<br>Bridge                             |
| 阿仁<br>Ani            | 173°T / 11.6NM      | 内陸線阿仁合駅<br>Station                                  |

RJSR / ODATE-NOSHIRO

LDG CHART



RJSR / ODATE-NOSHIRO

Minimum Vectoring Altitude CHART

