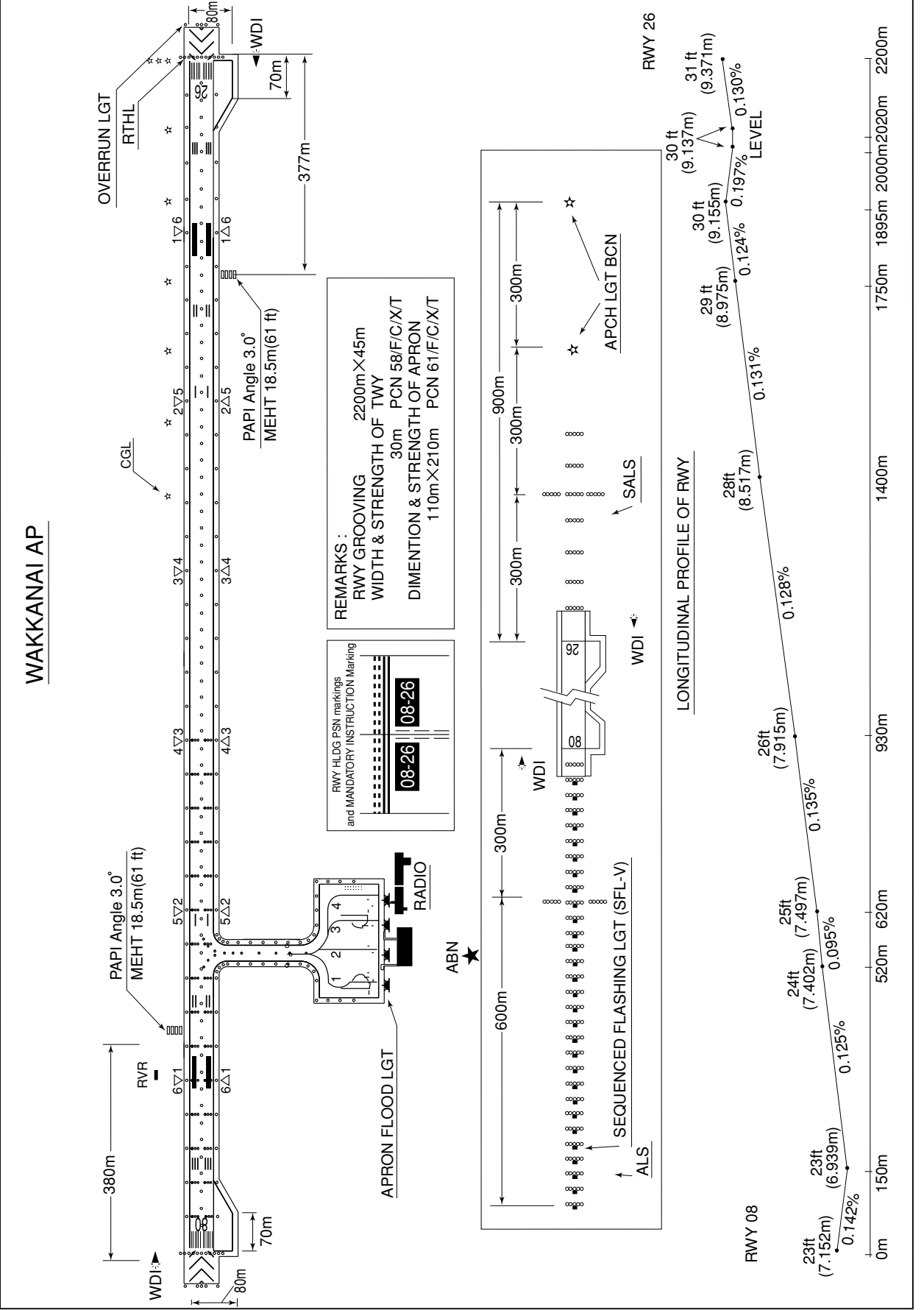


RJCW / WAKKANAI

AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

PANKE TWO DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn right HDG 220°...

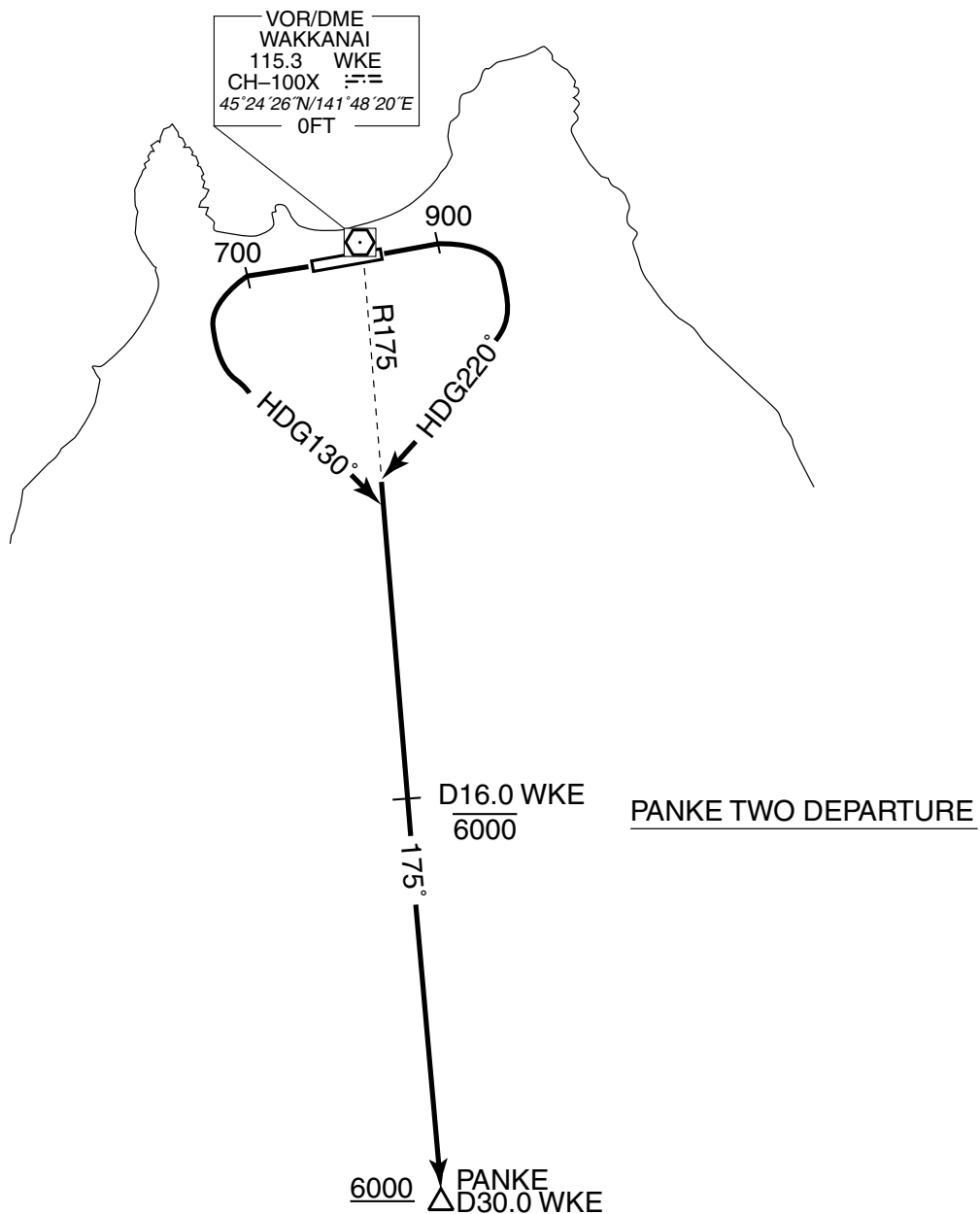
RWY26 : Climb RWY HDG to 700FT, turn left HDG 130°...

...to intercept and proceed via WKE R175 to PANKE.

Cross WKE R175/16.0DME at or below 6000FT, cross PANKE at or above 6000FT.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

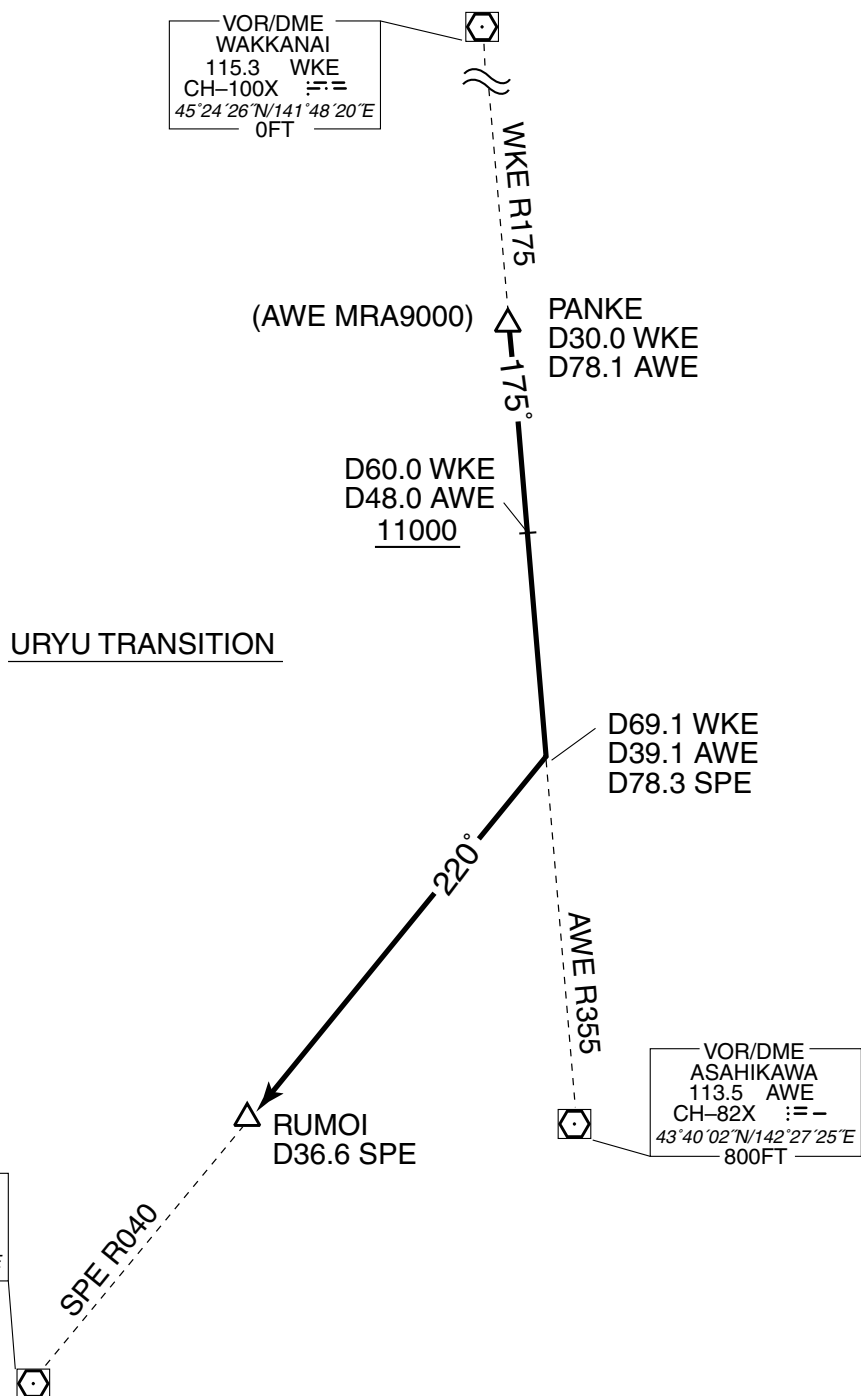
TRANSITION

URYU TRANSITION

From over PANKE, proceed via WKE R175/AWE R355 to intercept and proceed via SPE R040 to RUMOI.

Cross WKE R175/60.0DME (AWE R355/48.0DME) at or above 11000FT.

NOTE : PANKE AWE MRA 9000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

RUMOI FIVE DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn right HDG 237°...

RWY26 : Climb RWY HDG to 700FT, turn left HDG 147°...

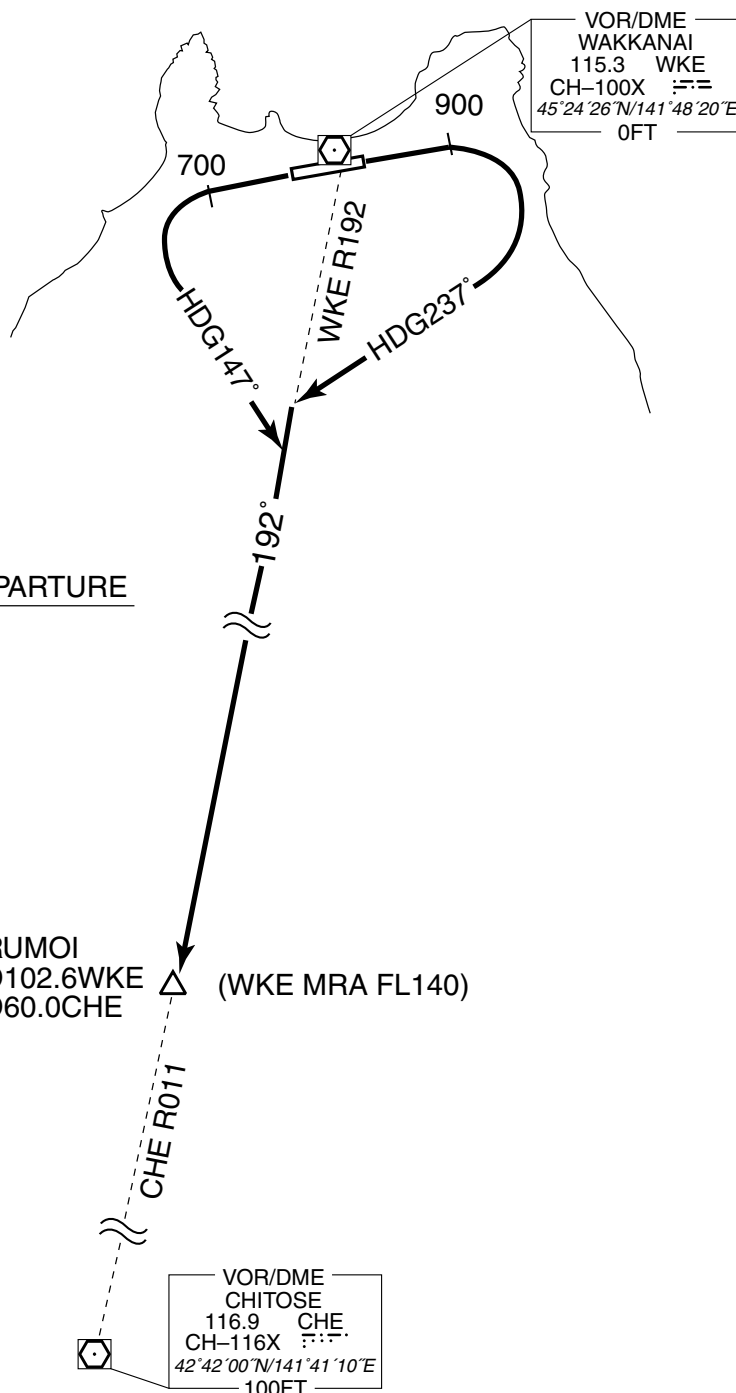
...to intercept and proceed via WKE R192/CHE R011 to RUMOI.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.

RUMOI WKE MRA FL140.

RUMOI FIVE DEPARTURE



STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

SID

WAKKANAI REVERSAL ONE DEPARTURE

RWY08 : Climb RWY HDG to 900FT, turn left HDG302°...

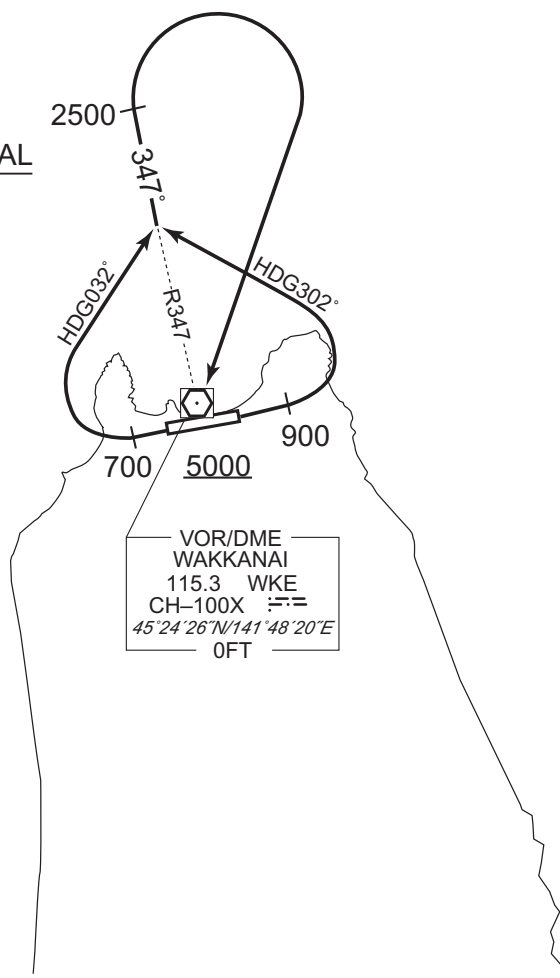
RWY26 : Climb RWY HDG to 700FT, turn right HDG032°...

...to intercept and proceed via WKE R347 to 2500FT, turn right direct to WKE VOR/DME.

Cross WKE VOR/DME at or above 5000FT.

NOTE RWY08 : 4.4% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.6NM 096° FM end of RWY08.

WAKKANAI REVERSAL
ONE DEPARTURE

STANDARD DEPARTURE CHART - INSTRUMENT

RJCW / WAKKANAI

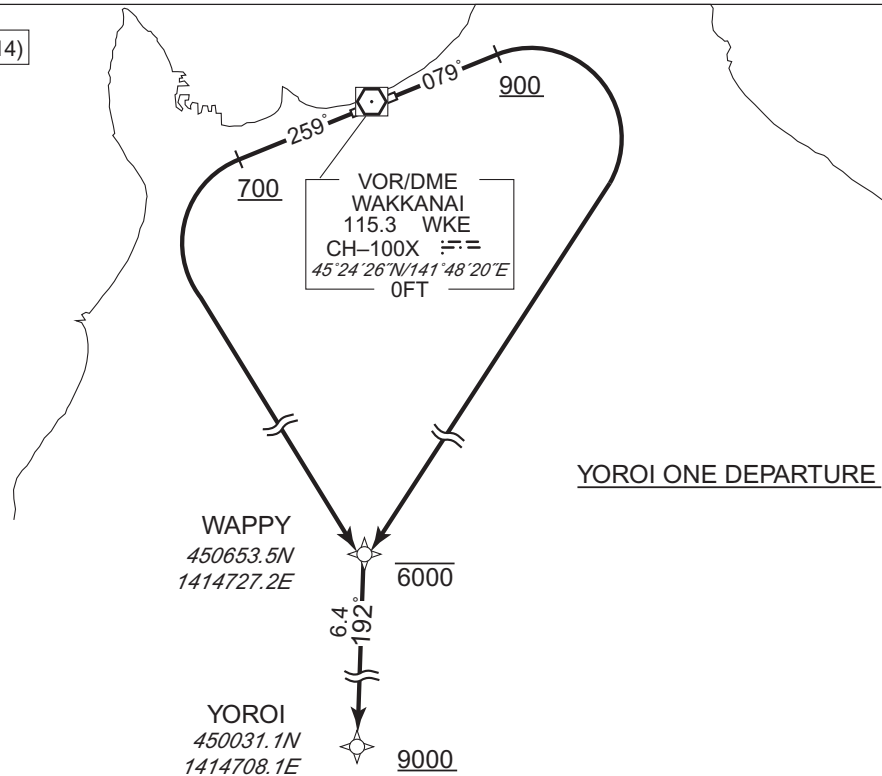
RNAV SID

YOROI ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 10°W (2014)

YOROI ONE DEPARTURE

RWY08 : Climb on HDG079° at or above 900FT, turn right direct to WAPPY at or below 6000FT, to YOROI at or above 9000FT.

RWY26 : Climb on HDG259° at or above 700FT, turn left direct to WAPPY at or below 6000FT, to YOROI at or above 9000FT.

Note RWY08 : 6.0% climb gradient required up to 900FT.
RWY26 : 5.0% climb gradient required up to 700FT.

RWY08

| 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 | — | — | 079 (068.8) | -9.9 | — | — | +900 | — | — | Basic RNP1 |
| 002 | DF | WAPPY | — | — | -9.9 | — | R | -6000 | — | — | Basic RNP1 |
| 003 | TF | YOROI | — | 192 (182.0) | -9.9 | 6.4 | — | +9000 | — | — | Basic RNP1 |

RWY26

| 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 | — | — | 259 (248.9) | -9.9 | — | — | +700 | — | — | Basic RNP1 |
| 002 | DF | WAPPY | — | — | -9.9 | — | L | -6000 | — | — | Basic RNP1 |
| 003 | TF | YOROI | — | 192 (182.0) | -9.9 | 6.4 | — | +9000 | — | — | Basic RNP1 |

CHANGE : FIX symbol(YOROI).

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STANDARD ARRIVAL CHART-INSTRUMENT

RJCW / WAKKANAI

STAR

IKURA ARRIVAL

From over KABTO, turn right proceed via WKE 10.0DME counterclockwise ARC to IKURA.

Cross WKE R120 at or above 2100FT, cross IKURA at or above 2000FT.



STANDARD ARRIVAL CHART - INSTRUMENT

RJCW / WAKKANAI

RNAV STAR

| | |
|---------------|------------|
| DASSY ARRIVAL | Basic RNP1 |
|---------------|------------|

Note GNSS required.



| <u>DASSY ARRIVAL</u> From YOROI, to DASSY at or above 3000FT. | | | | | | | | | | | |
|--|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 | YOROI | — | — | -9.9 | — | — | — | — | — | Basic RNP1 |
| 002 | TF | DASSY | — | 012 (002.0) | -9.9 | 16.6 | — | +3000 | — | — | Basic RNP1 |

CHANGE : FIX symbol(DASSY, YOROI).

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

ILS or LOC RWY08



INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

VOR RWY08



RJCW / WAKKANAI

VOR RWY26

28/1/21

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

VOR A



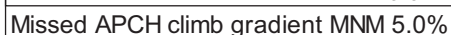
RJCW / WAKKANAI

RNP RWY08(AR)

For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C



From RW08 on track 079°,
at or above 1000FT turn right
direct to DASSY and hold at
3000FT.
Contact WAKKANAI RADIO.



| | | | | |
|--------|----------|--|--------------|-------------|
| MINIMA | | | THR elev. 23 | AD elev. 27 |
| CAT | RNP 0.30 | | | |
| | DA(H) | | RVR/CMV | |
| A | - | | - | |
| B | | | | |
| C | 323(300) | | 1000 | |
| D | | | 1400 | |

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

Authorization Required

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY08(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 | DASSY | - | - | -10.5 | - | - | +3000 | -210 | - | - |
| 002 | TF | CW850 | - | 331 (320.5) | -10.5 | 3.6 | - | 2000 | -165 | - | 1.0 |
| 003 | TF | CW851 | - | 331 (320.5) | -10.5 | 0.7 | - | 1781 | - | -3.00 | 0.3 |
| 004 | RF Center: CWRF1 r=2.01NM | CW852 | - | - | -10.5 | 3.8 | R | 568 | - | -3.00 | 0.3 |
| 005 | TF | RW08 | Y | 079 (068.8) | -10.5 | 1.5 | - | 77 | - | -3.00/54 | 0.3 |
| 006 | FA | - | - | 079 (068.8) | -10.5 | - | - | +1000 | - | - | 1.0 |
| 007 | DF | DASSY | - | - | -10.5 | - | R | 3000 | - | - | 1.0 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | DASSY | 012 (002.0) | -10.5 | 1.0 (-14000) | L | 3000 | FL140 | -210 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| CW850 | 451948.50N / 1414445.13E | CWRF1 | 452137.25N / 1414619.72E |
| CW851 | 452020.32N / 1414407.80E | | |
| CW852 | 452329.85N / 1414518.02E | | |
| RW08 | 452403.14N / 1414720.43E | | |
| DASSY | 451703.92N / 1414757.93E | | |

CHANGE : PROC renamed.

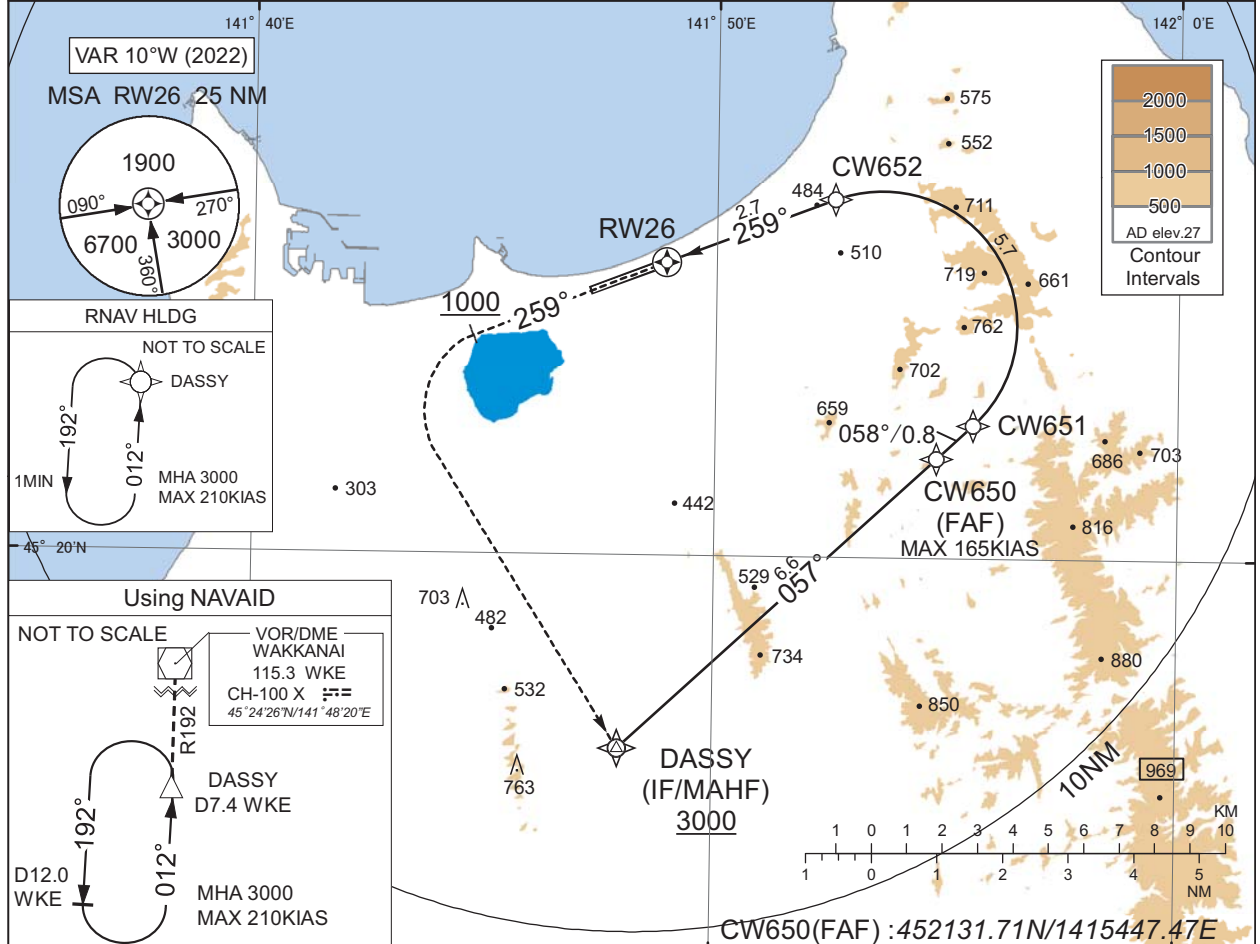
INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY26(AR)

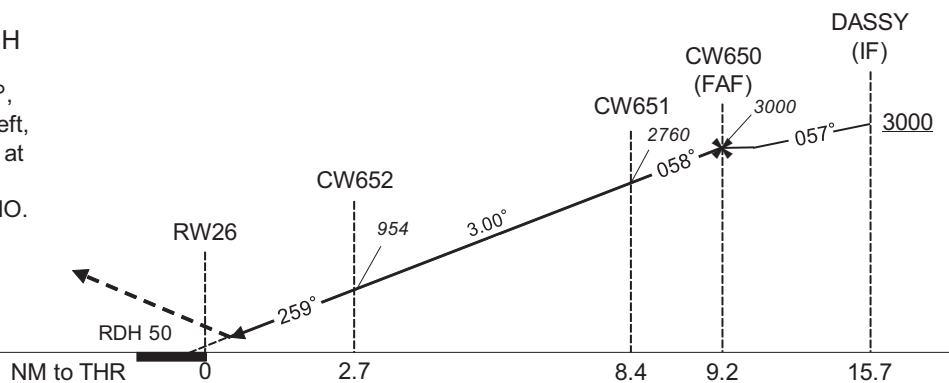
| | | | |
|--|------------------------|---------------------------------|----------|
| SAPPORO CONTROL 132.6 - 255.2 134.25 - 260.4 | RNP AR RF required. | WAKKANAI RADIO 118.3 - 126.2 | NO RADAR |
|--|------------------------|---------------------------------|----------|

For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C



MISSED APPROACH

From RW26 on track 259°, at or above 1000FT turn left, direct to DASSY and hold at 3000FT.
Contact WAKKANAI RADIO.



Missed APCH climb gradient MNM 5.0%

| MINIMA | THR elev. 31 | AD elev. 27 |
|--------|--------------|-------------|
| CAT | RNP 0.30 | |
| | DA(H) | CMV |
| A | - | - |
| B | - | - |
| C | 331(300) | 1400 |
| D | 331(300) | 1600 |

Authorization Required

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

CHANGE : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJCW / WAKKANAI

RNP RWY26(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 | DASSY | - | - | -10.5 | - | - | +3000 | - | - | - |
| 002 | TF | CW650 | - | 057 (047.0) | -10.5 | 6.6 | - | 3000 | -165 | - | 1.0 |
| 003 | TF | CW651 | - | 058 (047.1) | -10.5 | 0.8 | - | 2760 | - | -3.00 | 0.3 |
| 004 | RF Center: CWRF2 r=2.05NM | CW652 | - | - | -10.5 | 5.7 | L | 954 | - | -3.00 | 0.3 |
| 005 | TF | RW26 | Y | 259 (248.9) | -10.5 | 2.7 | - | 81 | - | -3.00/50 | 0.3 |
| 006 | FA | - | - | 259 (248.9) | -10.5 | - | - | +1000 | - | - | 1.0 |
| 007 | DF | DASSY | - | - | -10.5 | - | L | 3000 | - | - | 1.0 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | DASSY | 012 (002.0) | -10.5 | 1.0 (-14000) | L | 3000 | FL140 | -210 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| CW650 | 452131.71N / 1415447.47E | CWRF2 | 452332.87N / 1415335.73E |
| CW651 | 452202.42N / 1415534.54E | | |
| CW652 | 452527.92N / 1415232.94E | | |
| RW26 | 452428.77N / 1414854.78E | | |
| DASSY | 451703.92N / 1414757.93E | | |

CHANGE : PROC renamed.

RJCW / WAKKANAI

Visual REP

VAR 10°W(2005) / 1°W

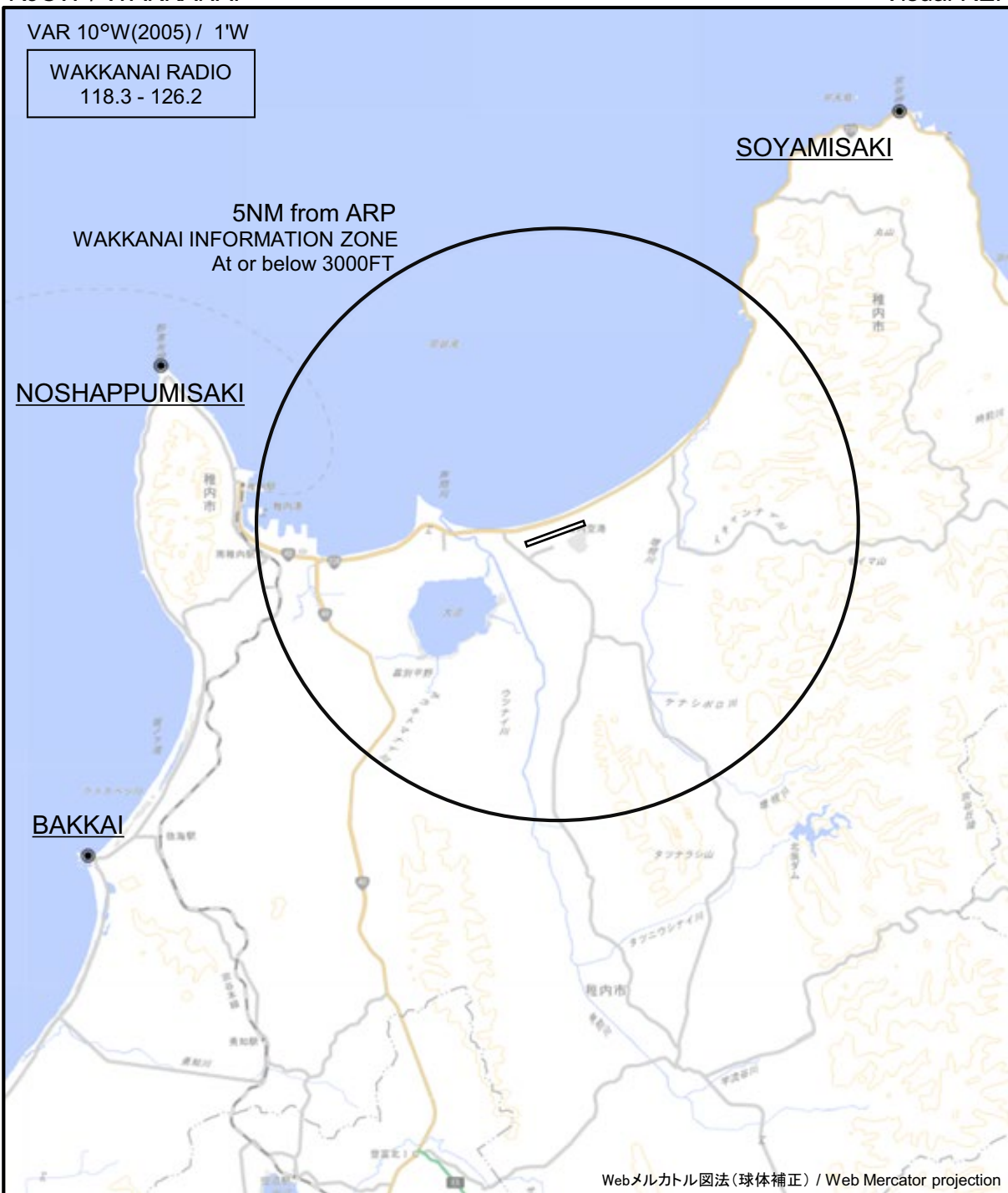
WAKKANAI RADIO
118.3 - 126.2

5NM from ARP
WAKKANAI INFORMATION ZONE
At or below 3000FT

NOSHAPPUMISAKI

SOYAMISAKI

BAKKAI



※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 : Map updated. BRG/DIST from ARP.

| Call sign | BRG / DIST from ARP | Remarks |
|------------------------|---------------------|------------------|
| 宗谷岬 Soyamisaki | 039°T / 9.0NM | 灯台 Lighthouse |
| 野寒布岬 Noshappumisaki | 292°T / 7.2NM | 灯台 Lighthouse |
| 抜海 Bakkai | 234°T / 9.7NM | 岬 Cape |



Remarks : Interference by foreign broadcast exists on 126.2

RJCW / WAKKANAI

Minimum Vectoring Altitude CHART

