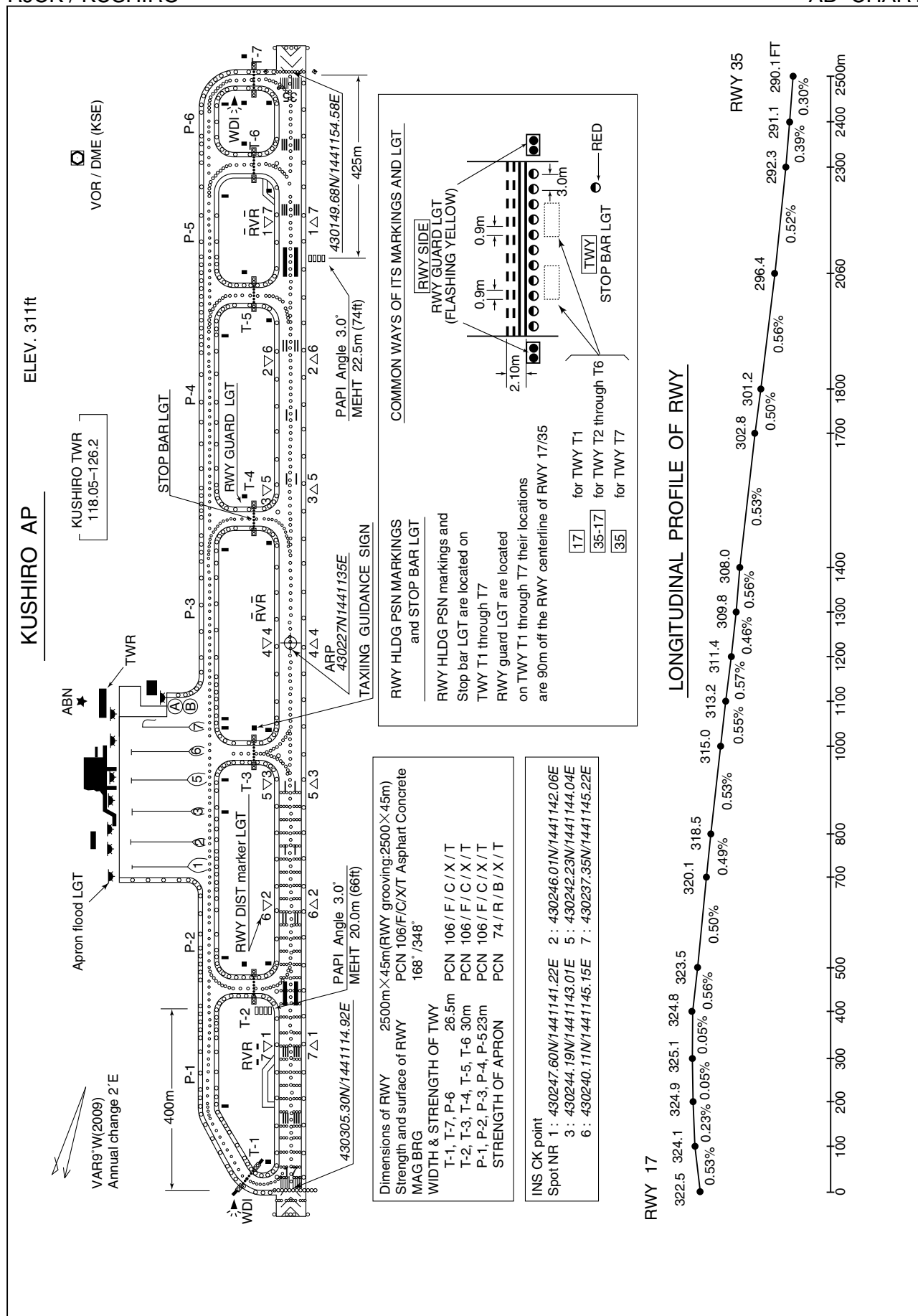


RJCK / KUSHIRO

AD CHART



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RJCK/KUSHIRO

PRECISION APPROACH TERRAIN CHART – ICAO



STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

SID

ALICE THREE DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG155°...
...to intercept and proceed via KSE R200 to ALICE.
Cross ALICE at assigned altitude.

Note : No turn before DER.

ERIMO FOUR DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn left...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG116°...
...to intercept and proceed via KSE R161, via NSE R218, via KSE R200 to
ERIMO.
Cross NSE R218/85.4DME at or above 10000FT.

Note : No turn before DER.

OBIHIRO THREE DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right HDG266°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG176°...
...to intercept and proceed via KSE R221, via OBE R097 to OBE VOR/DME.

Note : No turn before DER.

KUSHIRO REVERSAL FOUR DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG155°...
...to intercept and proceed via KSE R200 to 3000FT, turn left, direct to
KSE VOR/DME.
Cross KSE VOR/DME at or above 5000FT.

Note : No turn before DER.

YUDOH TWO DEPARTURE

RWY17 : Climb RWY HDG to 1000FT, turn right HDG266°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG176°...
...to intercept and proceed via KSE R221 to YUDOH.

Note : No turn before DER.

EATAK ONE DEPARTURE

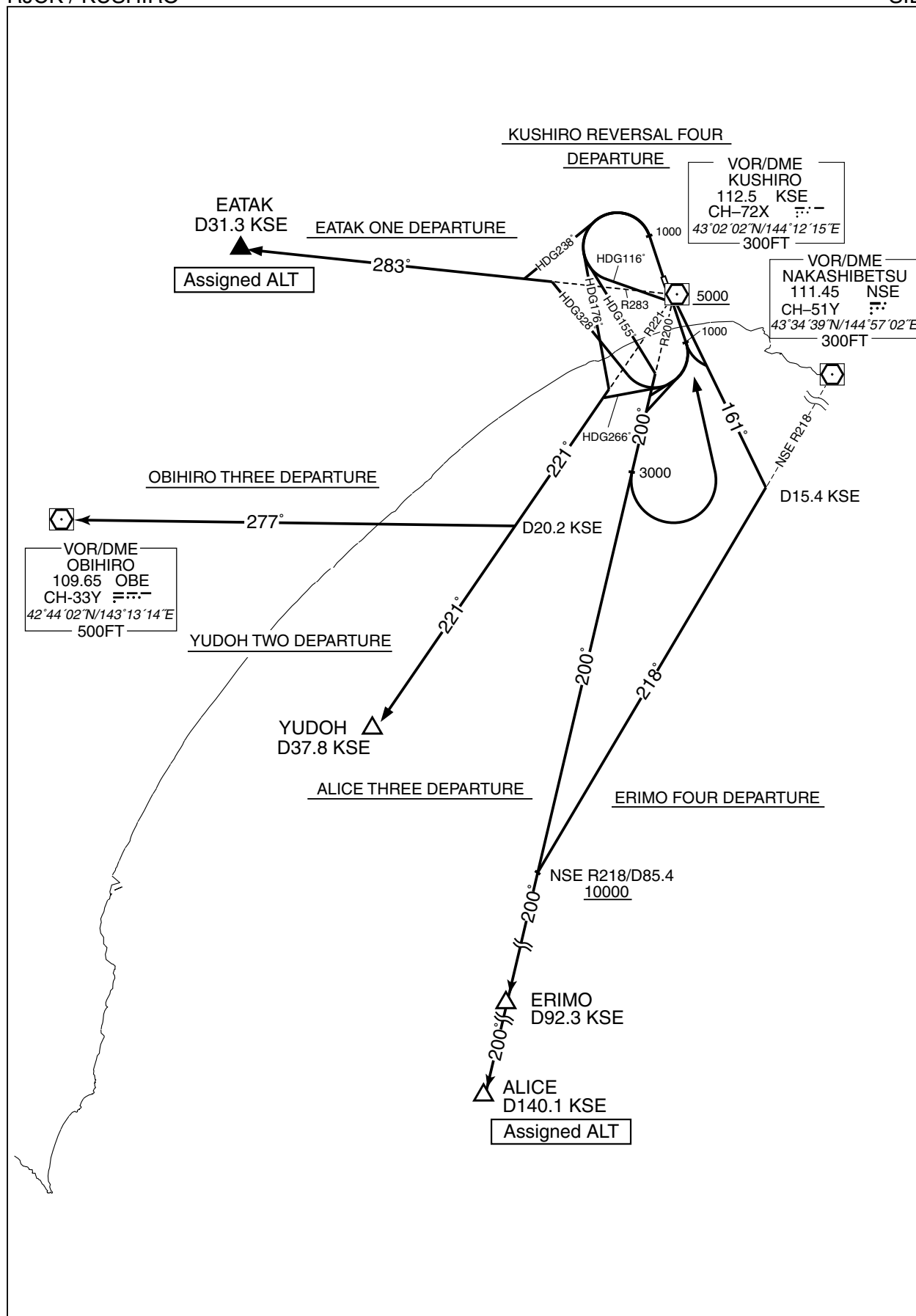
RWY17 : Climb RWY HDG to 1000FT, turn right HDG328°...
RWY35 : Climb RWY HDG to 1000FT, turn left HDG238°...
...to intercept and proceed via KSE R283 to EATAK.
Cross EATAK at assigned altitude.

Note : No turn before DER.

STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

SID



STANDARD DEPARTURE CHART -INSTRUMENT

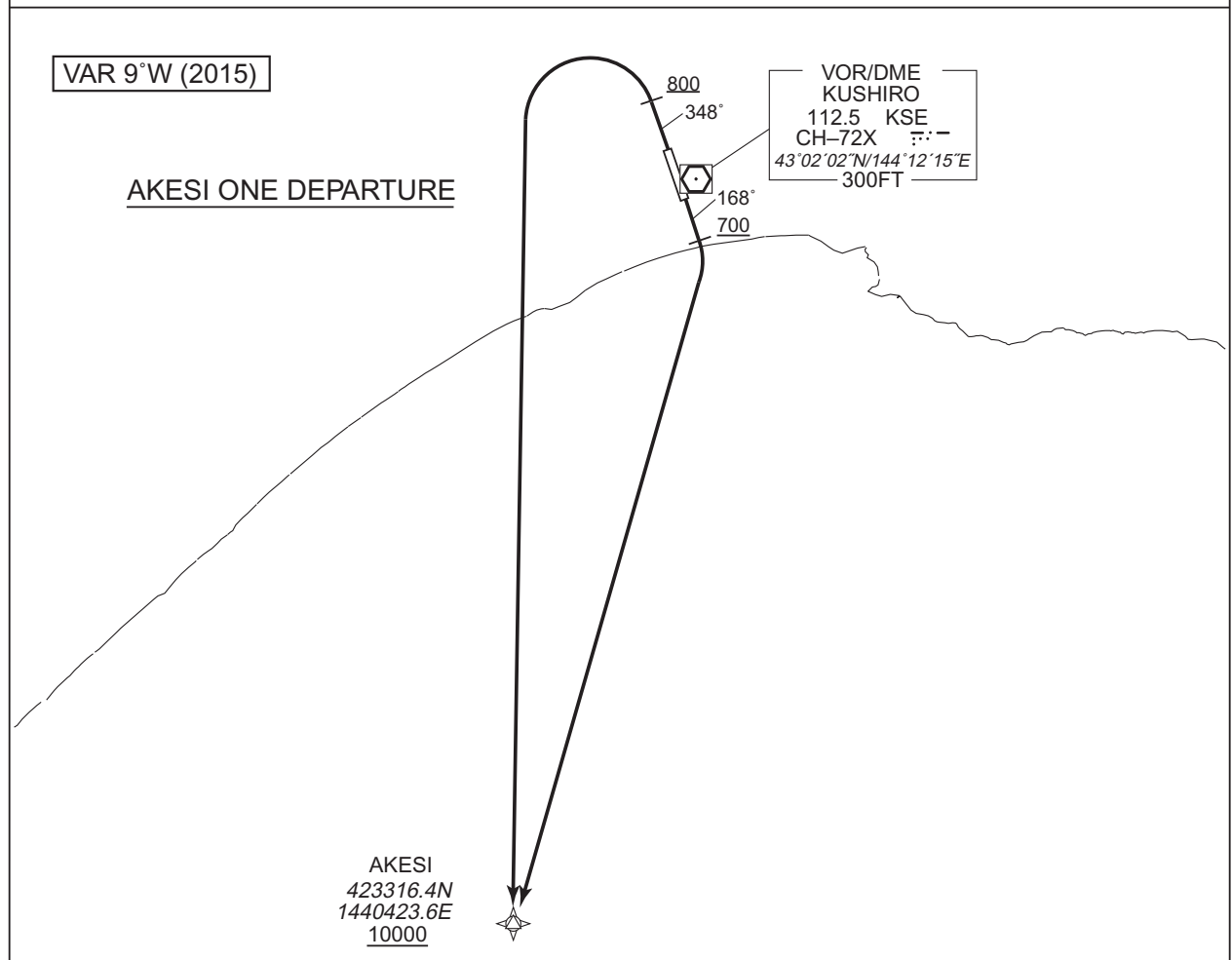
RJCK / KUSHIRO

RNAV SID

AKESI ONE DEPARTURE

Basic RNP1

Note GNSS required.



AKESI ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to AKESI at or above 10000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to AKESI at or above 10000FT.

RWY17

| 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 | — | — | 168 (159.0) | -8.9 | — | — | +700 | — | — | Basic RNP1 |
| 002 | DF | AKESI | — | — | -8.9 | — | R | +10000 | — | — | Basic RNP1 |

RWY35

| 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 | — | — | 348 (339.0) | -8.9 | — | — | +800 | — | — | Basic RNP1 |
| 002 | DF | AKESI | — | — | -8.9 | — | L | +10000 | — | — | Basic RNP1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV SID

TANCHO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

TANCHO ONE DEPARTURE

VOR/DME
KUSHIRO
112.5 KSE
CH-72X
43°02'02"N/144°12'15"E
300FT

YUDOH
423005.4N
1434446.5E
10000

TANCHO ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to YUDOH at or above 10000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to YUDOH at or above 10000FT.

RWY17

| 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 | — | — | 168 (159.0) | -8.9 | — | — | +700 | — | — | Basic RNP1 |
| 002 | DF | YUDOH | — | — | -8.9 | — | R | +10000 | — | — | Basic RNP1 |

RWY35

| 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 | — | — | 348 (339.0) | -8.9 | — | — | +800 | — | — | Basic RNP1 |
| 002 | DF | YUDOH | — | — | -8.9 | — | L | +10000 | — | — | Basic RNP1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV SID

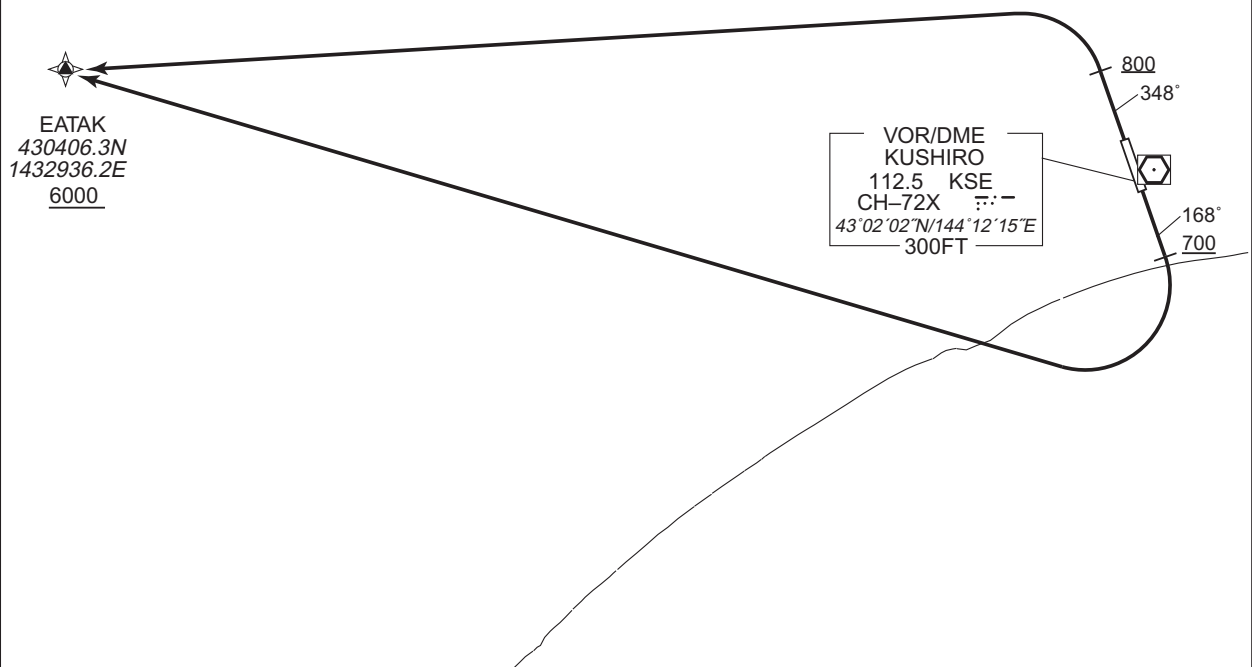
ASHORO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2015)

ASHORO ONE DEPARTURE



ASHORO ONE DEPARTURE

RWY17 : Climb on HDG168° at or above 700FT, turn right direct to EATAK at or above 6000FT.

RWY35 : Climb on HDG348° at or above 800FT, turn left direct to EATAK at or above 6000FT.

Note RWY17: No turn before DER.

RWY17

| 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 | — | — | 168 (159.0) | -8.9 | — | — | +700 | — | — | Basic RNP1 |
| 002 | DF | EATAK | — | — | -8.9 | — | R | +6000 | — | — | Basic RNP1 |

RWY35

| 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 | — | — | 348 (339.0) | -8.9 | — | — | +800 | — | — | Basic RNP1 |
| 002 | DF | EATAK | — | — | -8.9 | — | L | +6000 | — | — | Basic RNP1 |

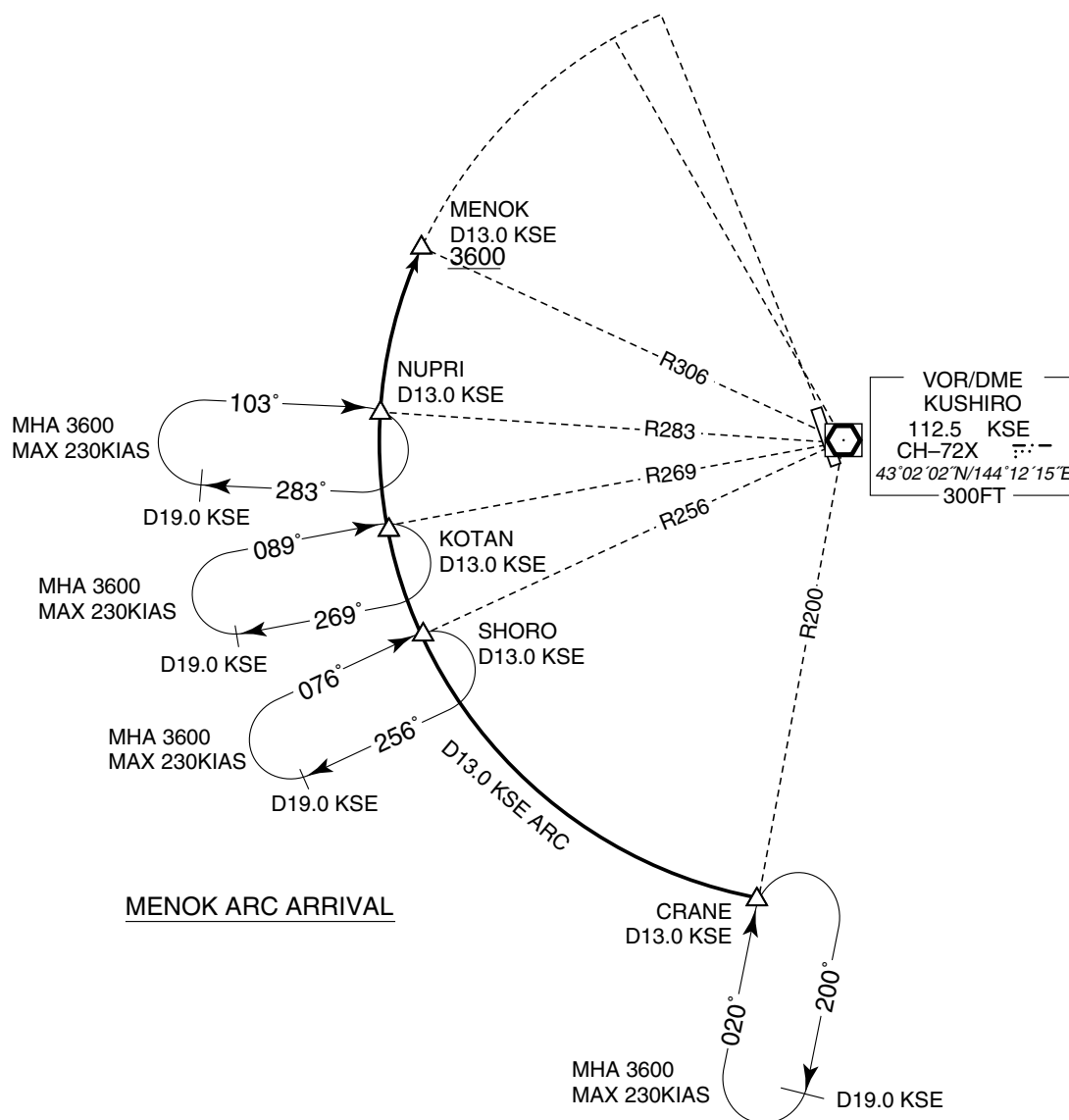
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RJCK / KUSHIRO

STAR

From over CRANE, SHORO, KOTAN, NUPRI, via KSE 13.0DME clockwise ARC to MENOK.

Cross MENOK at or above 3600FT.



STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

STAR

KUSSY ARRIVAL

From over AKESI, via KSE R200 to intercept and proceed via KSE 20.0DME counterclockwise ARC, via KSE R182 to KUSSY.

Cross KUSSY at or above 2000FT.



STANDARD ARRIVAL CHART -INSTRUMENT

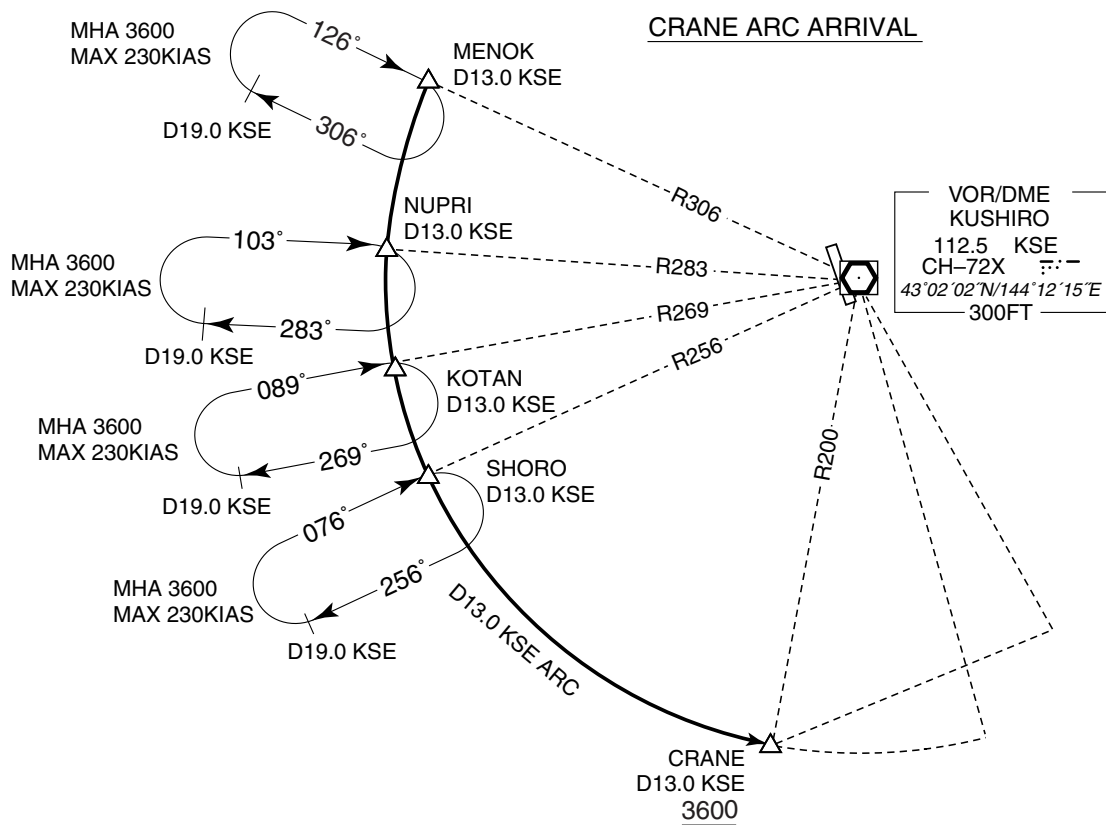
RJCK / KUSHIRO

STAR

CRANE ARC ARRIVAL

From over MENOK, NUPRI, KOTAN, SHORO, via KSE 13.0DME counterclockwise ARC to CRANE.

Cross CRANE at or above 3600FT.



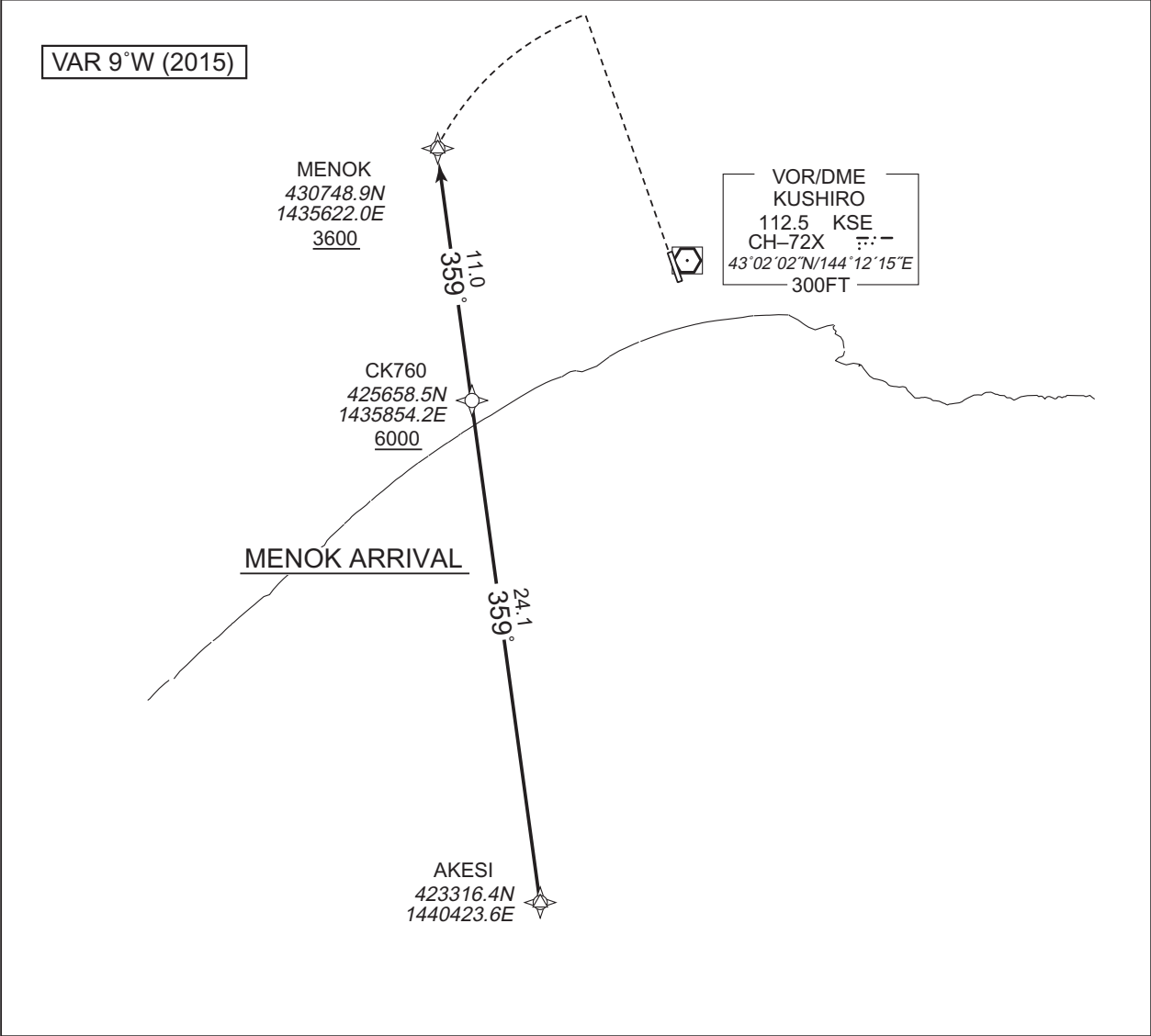
STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

| | |
|---------------|------------|
| MENOK ARRIVAL | Basic RNP1 |
|---------------|------------|

Note GNSS required.



| <u>MENOK ARRIVAL</u> From AKESI, to CK760 at or above 6000FT, to MENOK at or above 3600FT. | | | | | | | | | | | |
|---|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 | AKESI | — | — | -8.9 | — | — | — | — | — | Basic RNP1 |
| 002 | TF | CK760 | — | 359 (350.4) | -8.9 | 24.1 | — | +6000 | — | — | Basic RNP1 |
| 003 | TF | MENOK | — | 359 (350.3) | -8.9 | 11.0 | — | +3600 | — | — | Basic RNP1 |

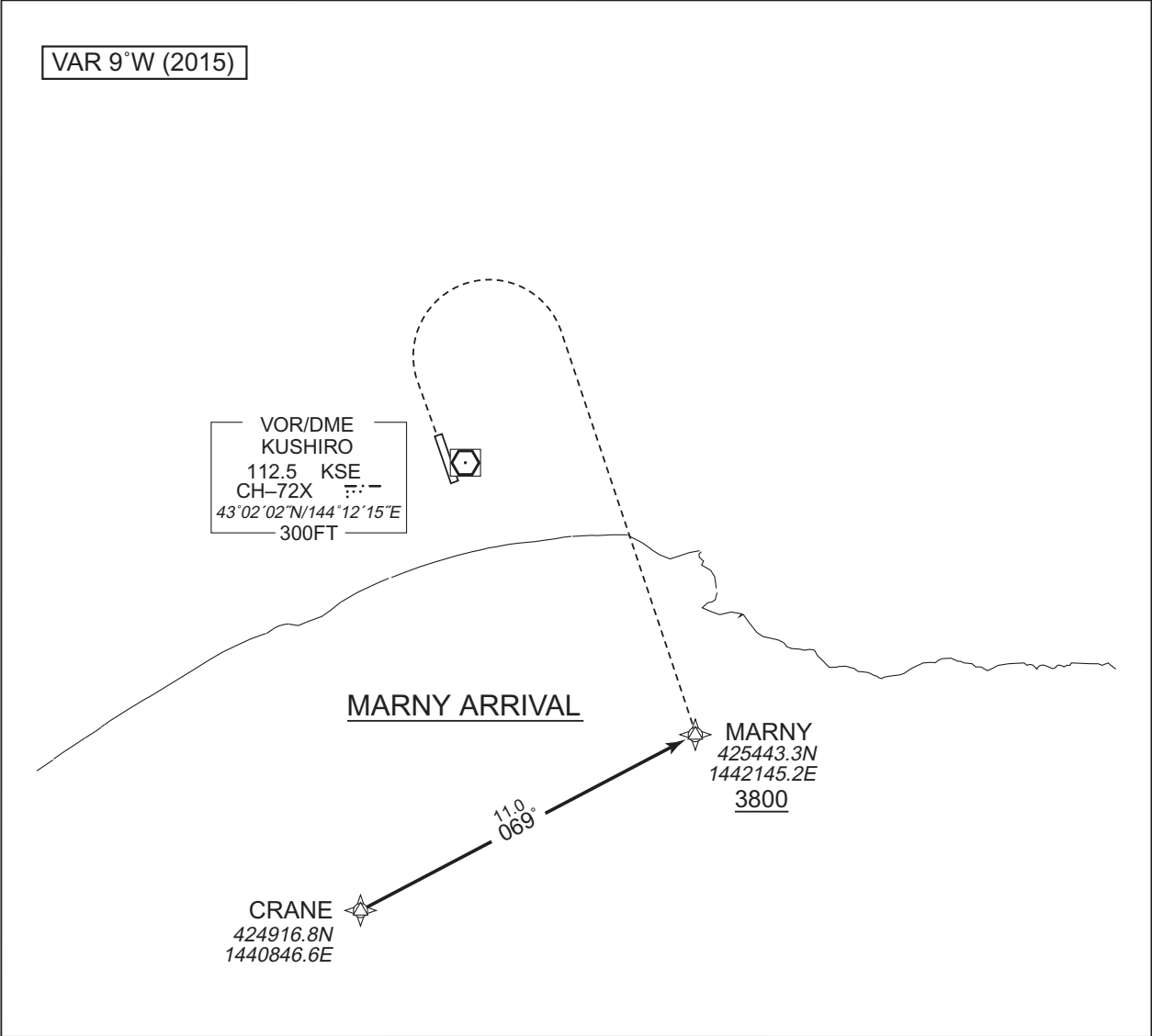
STANDARD ARRIVAL CHART -INSTRUMENT

RJCK / KUSHIRO

RNAV STAR RWY17

| MARNY ARRIVAL | Basic RNP1 |
|---------------|------------|
|---------------|------------|

Note GNSS required.



| MARNY ARRIVAL | | | | | | | | | | | |
|--|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| From CRANE, to MARNY at or above 3800FT. | | | | | | | | | | | |
| 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 | CRANE | — | — | -8.9 | — | — | — | — | — | Basic RNP1 |
| 002 | TF | MARNY | — | 069 (060.2) | -8.9 | 11.0 | — | +3800 | — | — | Basic RNP1 |

CHANGE: MINIMA(CAT IIIA, IIIB → CAT III).

RJCK / KUSHIRO

ILS or LOC RWY17 (CAT III)

SAPPORO CONTROL
128.325 – 246.1
134.25 – 260.4

ILS-LOC
108.9 IKS :::-
ILS-GP 329.3
ILS-DME CH-26X

KUSHIRO TOWER
118.05 – 126.2

NO RADAR

VAR 9°W (2008)
MSA 25NM

EQPT REQUIRED
DME
VOR

VOR/DME
KUSHIRO
112.5 KSE
CH-72X :::-
43°02'02"N/144°12'15"E

UTARI(IF)
D11.9 IKS
R346/D13.0 KSE

AKANN(FAF) D6.7 IKS

MAPt
D0.8 IKS

D3.0 KSE

CRANE
D13.0 KSE

MHA 3600
MAX 230KIAS
D19.0 KSE

MENOK
D13.0 KSE

KSE
VOR/DME

CRANE
D13.0 KSE

D19.0 KSE

AKANN(FAF) : 430911.57N/1440802.37E

| NM to IKS | FAF | 6 | 5 | 4 | 3 | 2 | 1 | MAPt |
|----------------------|-----|------|------|------|------|-----|-----|------|
| ALT (3.0° APCH Path) | - | 2226 | 1908 | 1589 | 1271 | 952 | 633 | - |

MISSED APPROACH
Climb to 3600FT via HDG 168° until KSE 3.0DME, turn right to intercept and proceed via KSE R200 to CRANE and hold.
Contact KUSHIRO TOWER.

Timing not authorized defining the MAPt.

| MINIMA | | THR elev. 323 | | | AD elev. 311 | | | | | |
|--------|---------|-----------------|----|-------|--------------|-------------|-----------|-------------|-----------|------|
| CAT | CAT III | CAT II | | CAT I | | LOC | CIRCLING | | | |
| | RVR | DA(H) | RA | RVR | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 100 | Not applicable. | | | 523 (200) | 550 | 590 (279) | 800 | 730 (419) | 1600 |
| B | | | | | | | | | 770 (459) | |
| C | | | | | | | | | | |
| D | | | | | | | | | 870 (559) | 3200 |

Circling to EAST side of RWY only.
Values of RA may increase or decrease rapidly affected by terrain between IKS 0.4DME and 0.8DME.

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

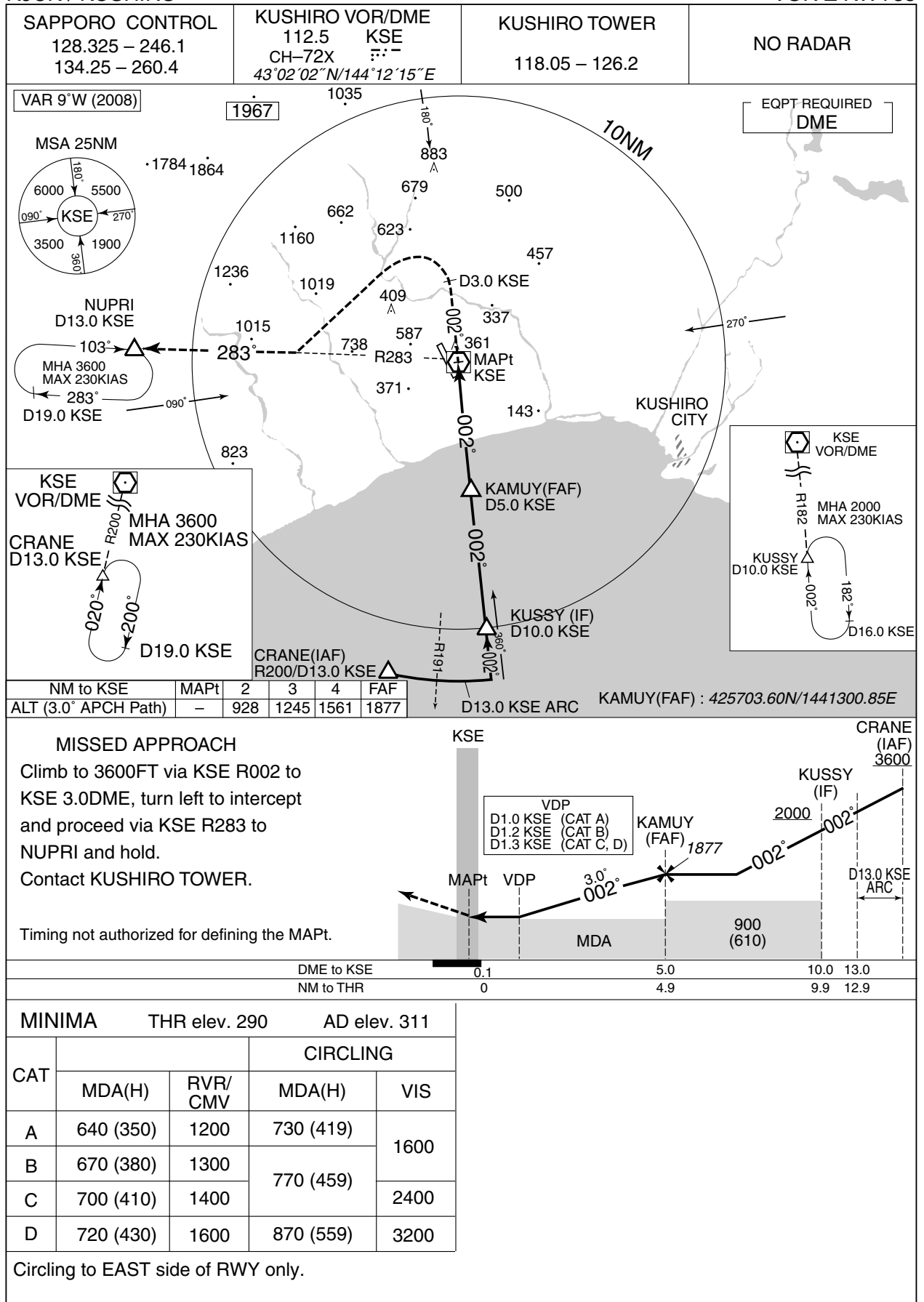
VOR RWY17



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR Z RWY35



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

VOR Y RWY35



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Z RWY17



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Z RWY17

RNAV(RNP) Z RWY17Coding 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 | CRANE | — | — | -8.9 | — | — | +3600 | — | — | — |
| 002 | TF | MARIM | — | 358 (349.1) | -8.9 | 7.1 | — | +3300 | — | — | 1.0 |
| 003 | TF | MILKY | — | 358 (349.0) | -8.9 | 6.0 | — | 3300 | -165 | — | 1.0 |
| 004 | TF | CK752 | — | 358 (349.0) | -8.9 | 1.4 | — | 2864 | — | -3.00 | 0.3 |
| 005 | RF Center: CKRF1 r=2.08NM | CK751 | — | — | -8.9 | 6.2 | R | 901 | — | -3.00 | 0.3 |
| 006 | TF | RW17 | Y | 168 (159.0) | -8.9 | 1.6 | — | 378 | — | -3.00/55 | 0.3 |
| 007 | TF | CK753 | — | 168 (159.0) | -8.9 | 9.8 | — | — | — | — | 1.0 |
| 008 | TF | CRANE | — | 238 (229.0) | -8.9 | 7.1 | — | 3600 | — | — | 1.0 |

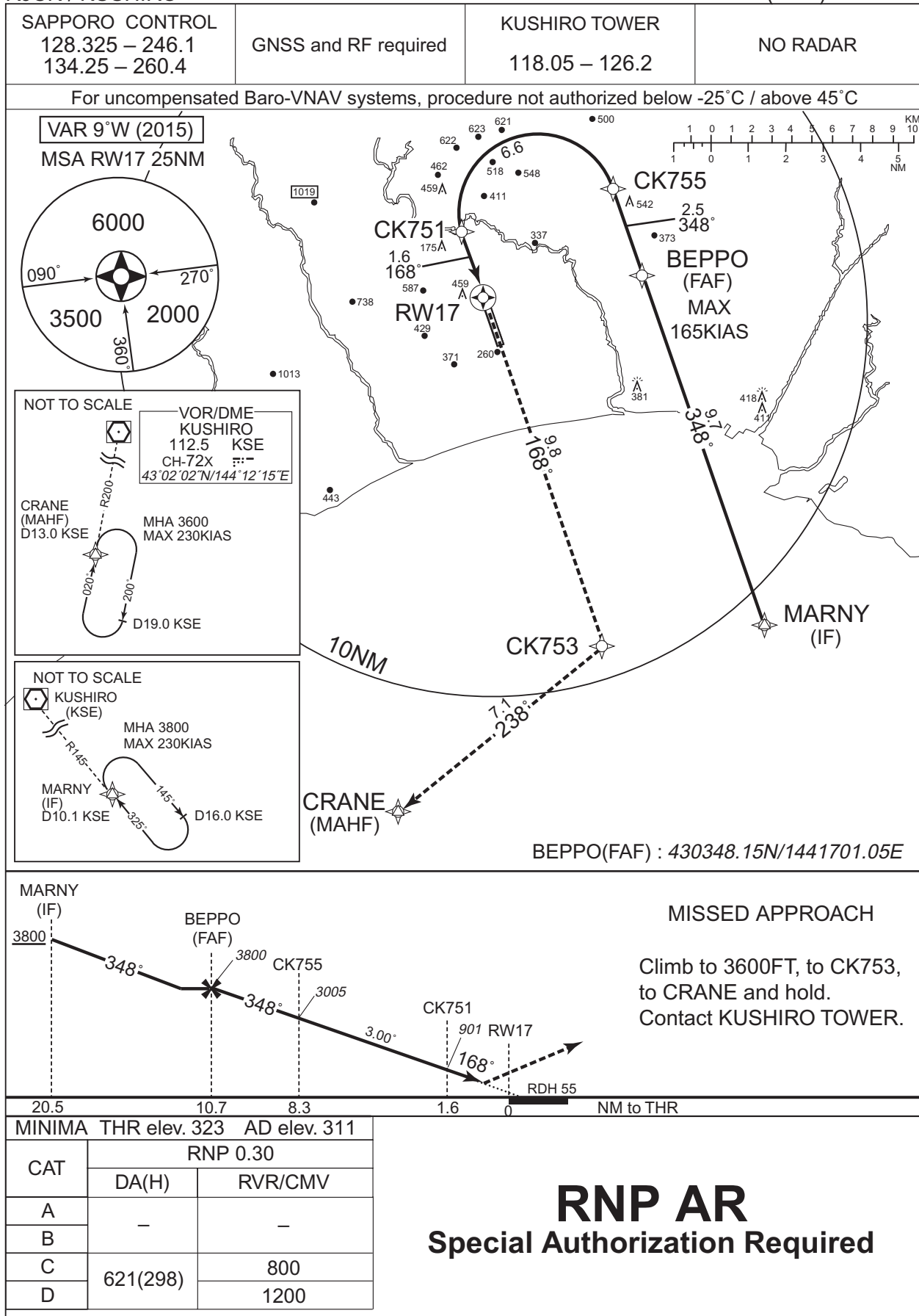
Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| CRANE | 424916.84N / 1440846.59E | CKRF1 | 430352.65N / 1440747.87E |
| MARIM | 425614.81N / 1440656.16E | | |
| MILKY | 430208.16N / 1440522.44E | | |
| CK752 | 430328.83N / 1440501.00E | | |
| CK751 | 430437.47N / 1441026.54E | | |
| RW17 | 430305.30N / 1441114.92E | | |
| CK753 | 425355.48N / 1441602.58E | | |

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Y RWY17



INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

RNAV(RNP) Y RWY17

RNAV(RNP) Y RWY17Coding 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 | MARNY | — | — | -8.9 | — | — | +3800 | — | — | — |
| 002 | TF | BEPP0 | — | 348 (339.1) | -8.9 | 9.7 | — | 3800 | -165 | — | 1.0 |
| 003 | TF | CK755 | — | 348 (339.1) | -8.9 | 2.5 | — | 3005 | — | -3.00 | 0.3 |
| 004 | RF Center: CKRF2 r=2.10NM | CK751 | — | — | -8.9 | 6.6 | L | 901 | — | -3.00 | 0.3 |
| 005 | TF | RW17 | Y | 168 (159.0) | -8.9 | 1.6 | — | 378 | — | -3.00/55 | 0.3 |
| 006 | TF | CK753 | — | 168 (159.0) | -8.9 | 9.8 | — | — | — | — | 1.0 |
| 007 | TF | CRANE | — | 238 (229.0) | -8.9 | 7.1 | — | 3600 | — | — | 1.0 |

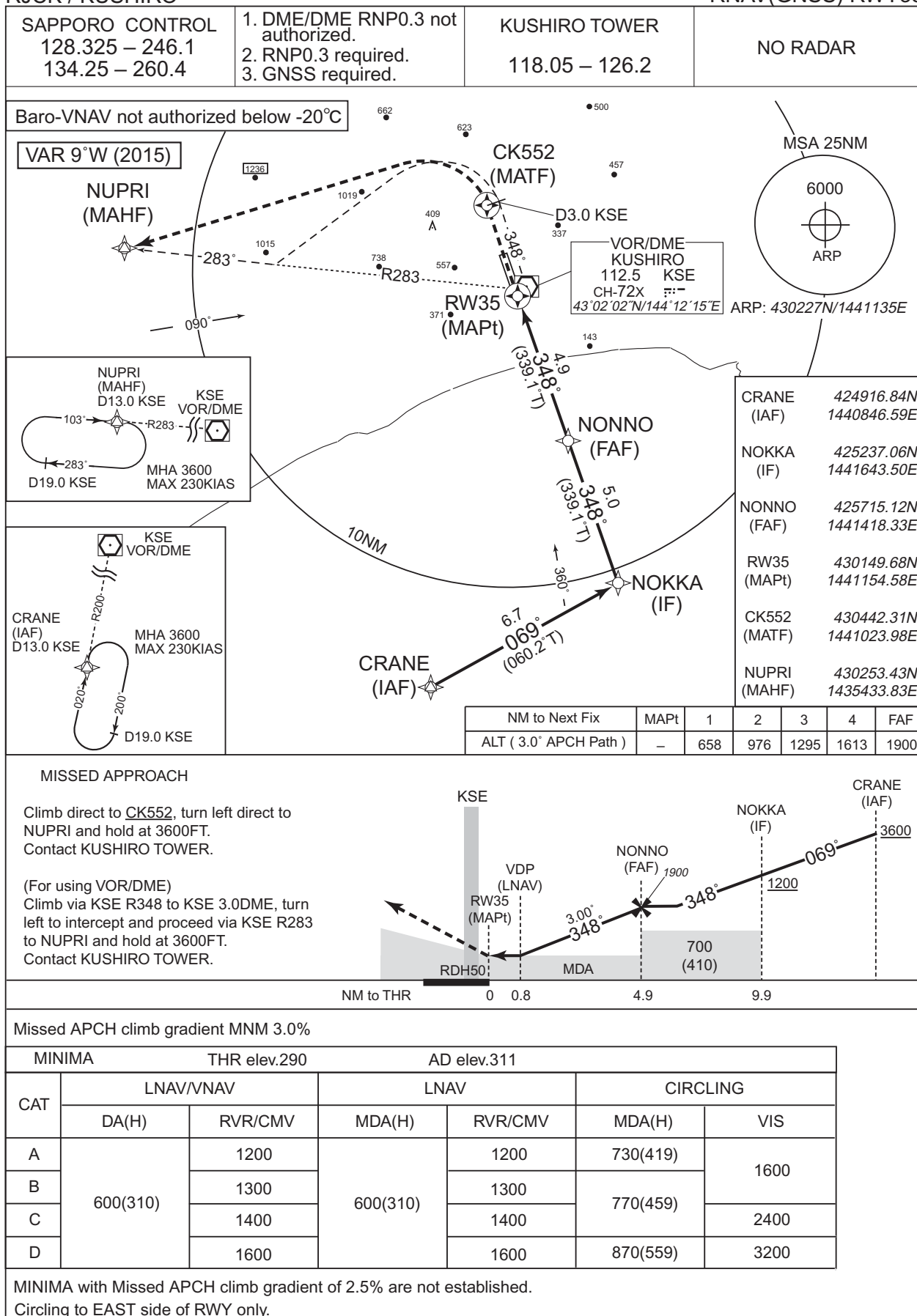
Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| MARNY | 425443.27N / 1442145.22E | CKRF2 | 430522.76N / 1441307.17E |
| BEPP0 | 430348.15N / 1441701.05E | | |
| CK755 | 430607.99N / 1441547.87E | | |
| CK751 | 430437.47N / 1441026.54E | | |
| RW17 | 430305.30N / 1441114.92E | | |
| CK753 | 425355.48N / 1441602.58E | | |
| CRANE | 424916.84N / 1440846.59E | | |

INSTRUMENT APPROACH CHART

RJCK / KUSHIRO

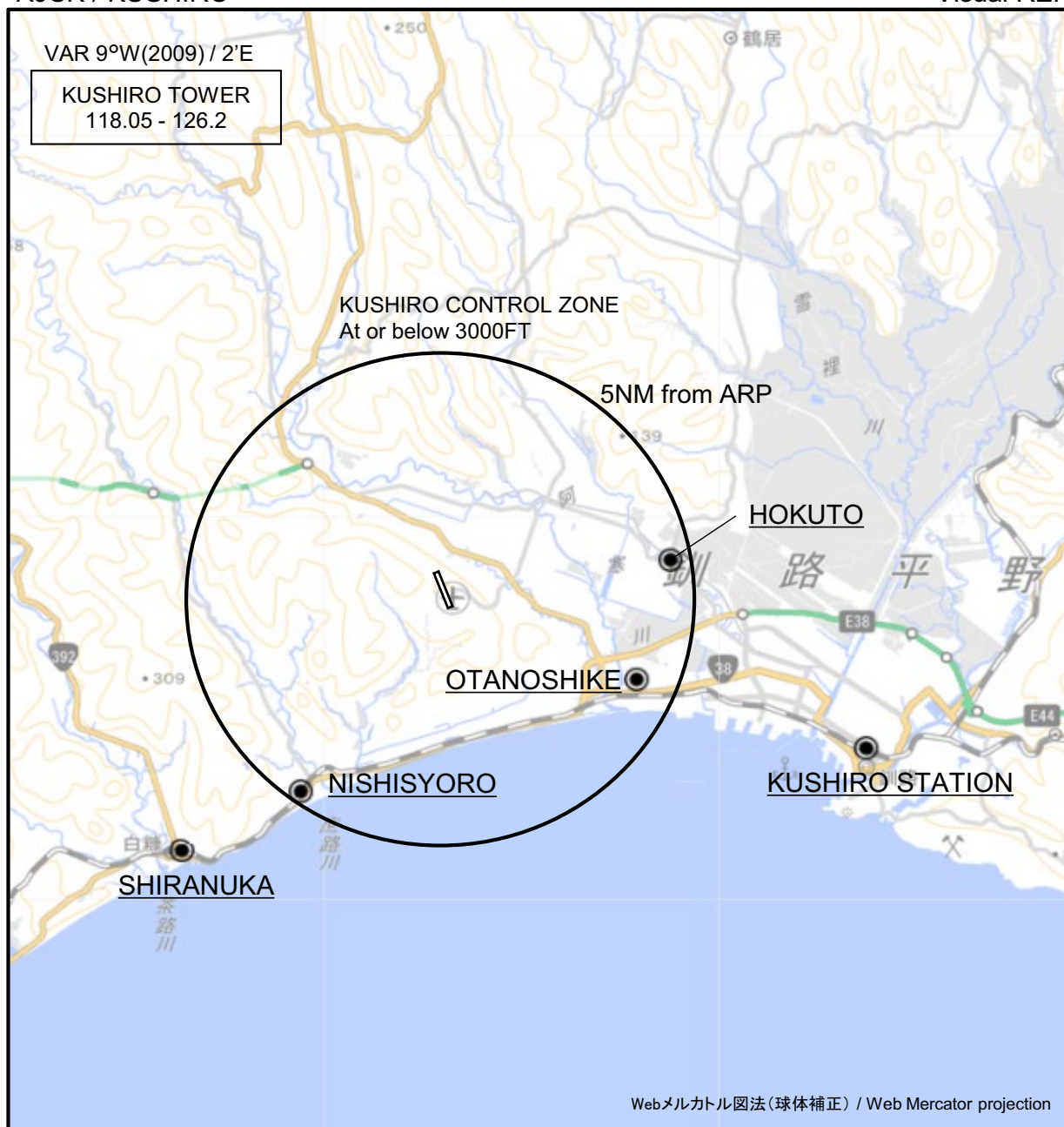
RNAV(GNSS) RWY35



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RJCK / KUSHIRO

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).

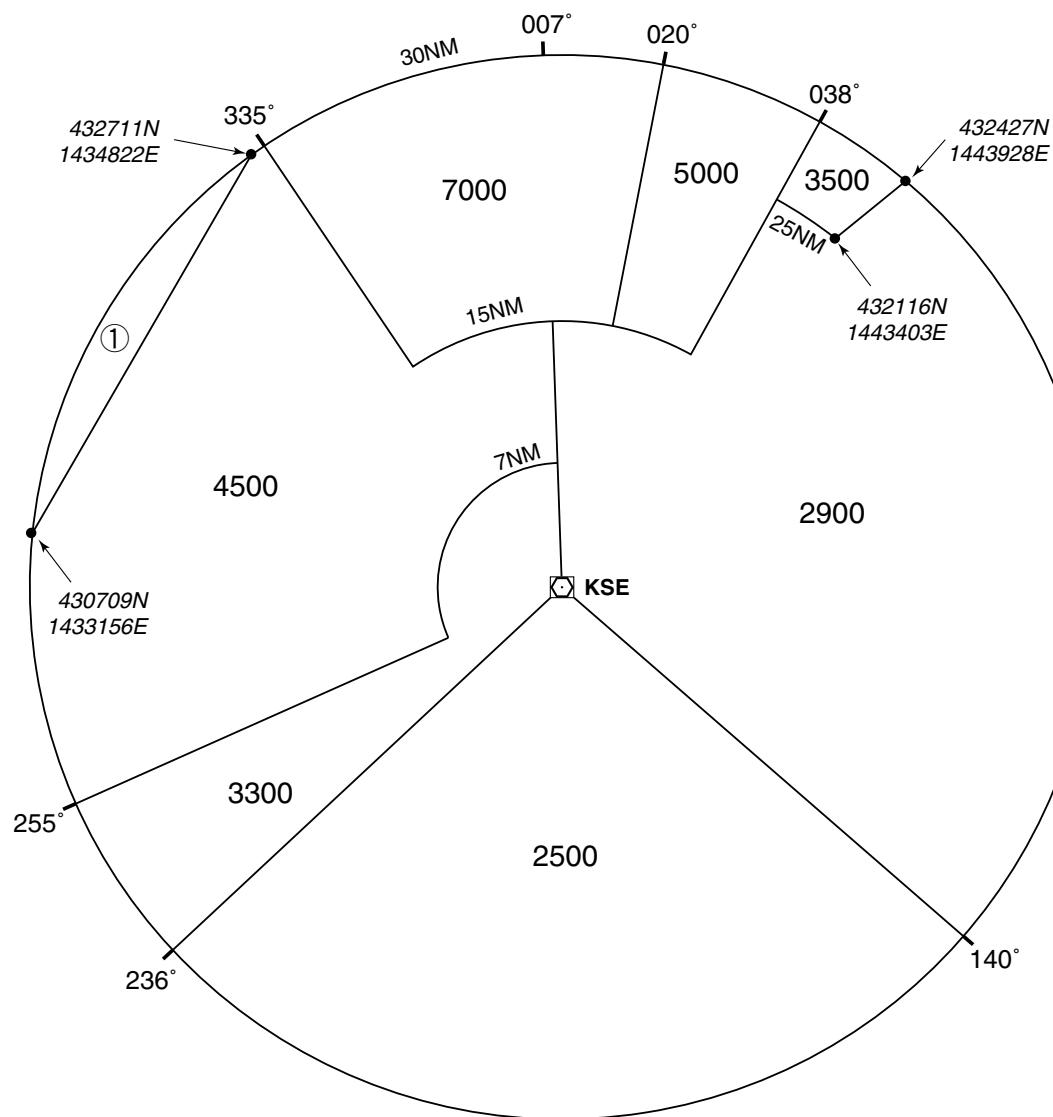
| Call sign | BRG / DIST from ARP | Remarks |
|-----------------------------|---------------------|------------------------|
| 北斗 Hokuto | 080°T / 4.6NM | T字路交差点 Intersection |
| 大楽毛 Otanoshike | 113°T / 4.2NM | 製紙工場煙突群 Chimneys |
| 釧路ステーション Kushiro Station | 110°T / 8.8NM | JR駅 Station |
| 西庶路 Nishisyoro | 215°T / 4.7NM | JR駅 Station |
| 白糖 Shiranuka | 225°T / 7.2NM | JR駅 Station |

CHANGE : Map updated. BRG/DIST from ARP.

RJCK / KUSHIRO

Minimum Vectoring Altitude CHART

VAR 9°W (2007)



CENTER : 430202N/1441215E (KSE VOR/DME)