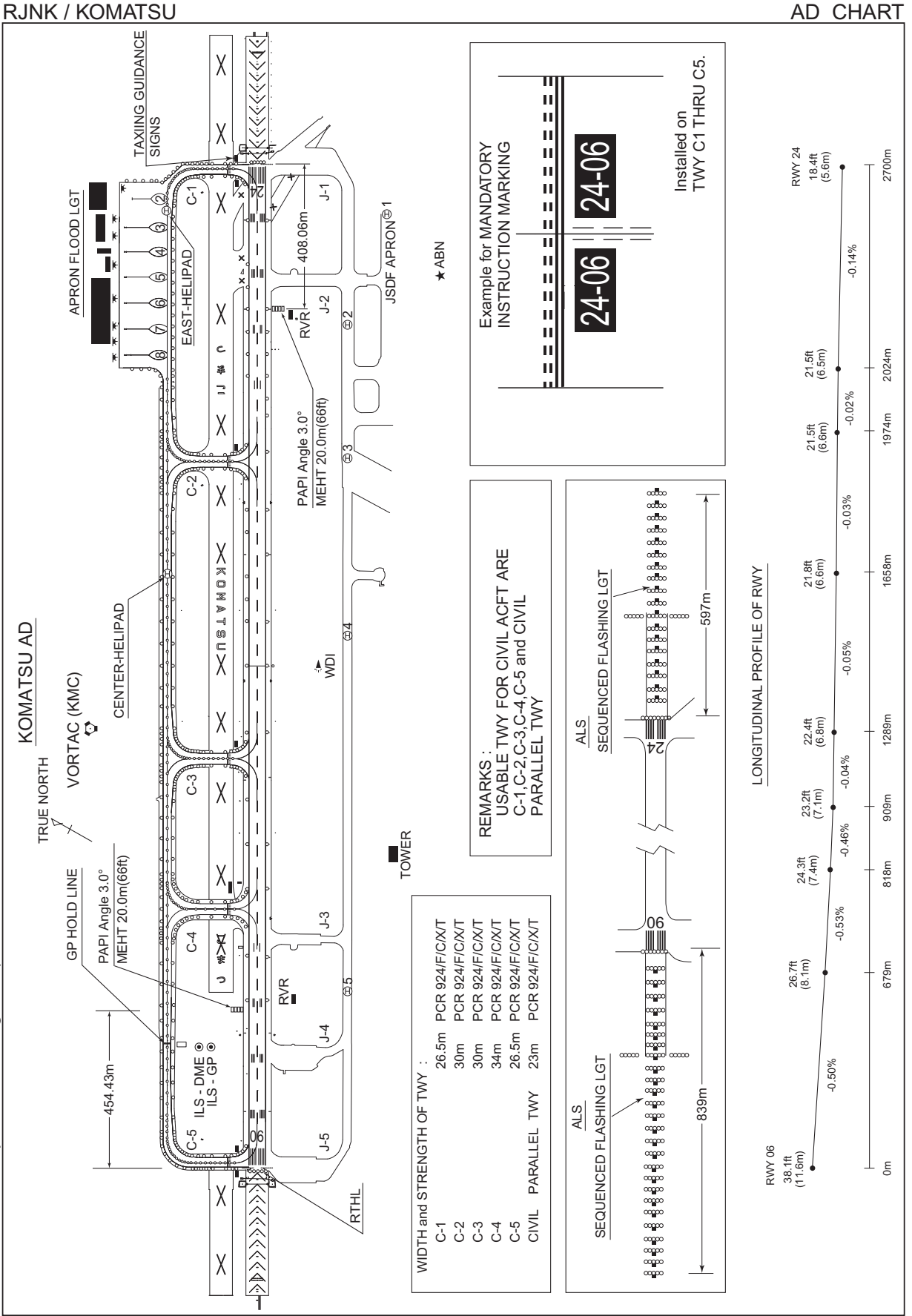


CHANGE : Description of strength of pavement.



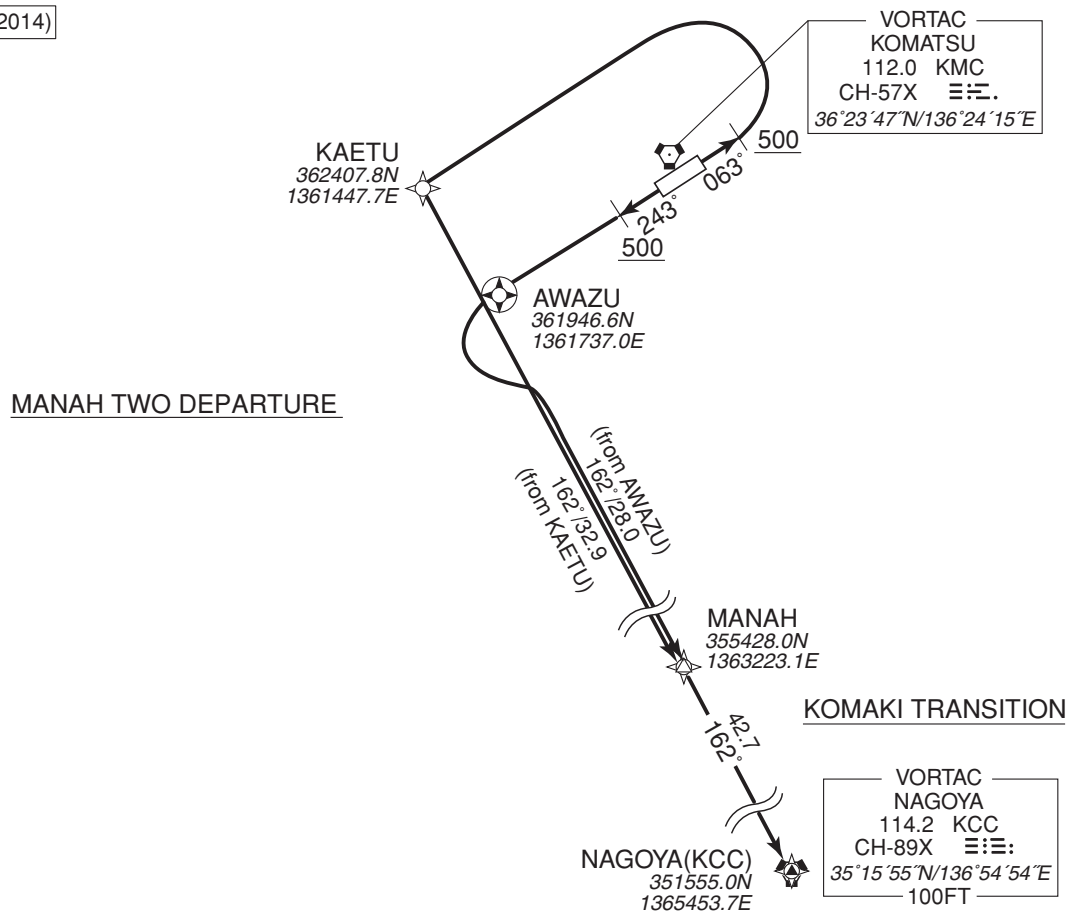
## STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID and TRANSITION

MANAH 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 roll. 2 ) RADAR service required.	Critical DME	RWY06 KMC, YME: 10NM to KAETU - 30NM to MANAH, 23NM to MANAH - 3NM to MANAH RWY24 KMC, YME: 23NM to MANAH - 3NM to MANAH
	DME GAP	RWY06 06DER - 10NM to KAETU 30NM to MANAH - 23NM to MANAH RWY24 24DER - 23NM to MANAH
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W(2014)

**MANAH TWO DEPARTURE**

RWY06 : Climb on HDG063° at or above 500FT, turn left direct to KAETU, to MANAH.

RWY24 : Climb on HDG243° at or above 500FT, direct to AWAZU, to MANAH.

NOTE RWY06 : 4.1% climb gradient required up to 3900FT.

OBST ALT 3215FT located at 13.0NM 200° FM end of RWY06.

RWY24 : 4.8% climb gradient required up to 3900FT.

OBST ALT 3215FT located at 12.0NM 195° FM end of RWY24.

**KOMAKI TRANSITION**

From MANAH to KCC.

CHANGE : Minor change

## STANDARD DEPARTURE CHART -INSTRUMENT

## RJNK / KOMATSU

## RNAV SID and TRANSITION

MANAH TWO DEPARTURE

## RWY06

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	—	—	063 (055.0)	-7.7	—	—	+500	—	—	RNAV1
002	DF	KAETU	—	—	-7.7	—	L	—	—	—	RNAV1
003	TF	MANAH	—	162 (154.3)	-7.7	32.9	—	—	—	—	RNAV1

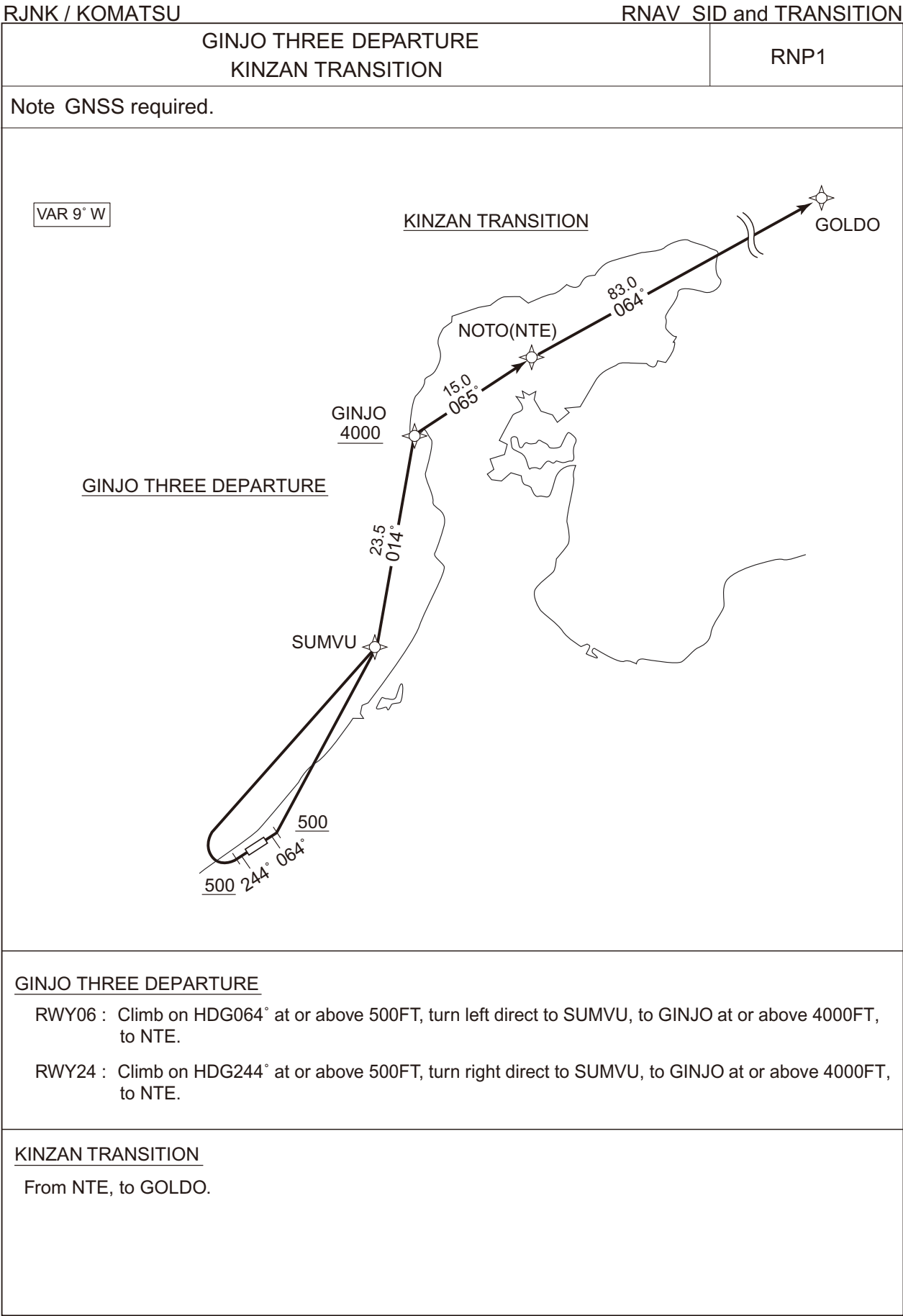
## RWY24

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	—	—	243 (235.0)	-7.7	—	—	+500	—	—	RNAV1
002	DF	AWAZU	Y	—	-7.7	—	—	—	—	—	RNAV1
003	TF	MANAH	—	162 (154.7)	-7.7	28.0	—	—	—	—	RNAV1

KOMAKI TRANSITION

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	MANAH	—	—	-7.7	—	—	—	—	—	RNAV1
002	TF	KCC	—	162 (154.5)	-7.7	42.7	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT



CHANGE : SUMVU established. HAKUI abolished. SID renamed. PROC course. ALT restriction at GINJO added.



STANDARD DEPARTURE CHART -INSTRUMENT

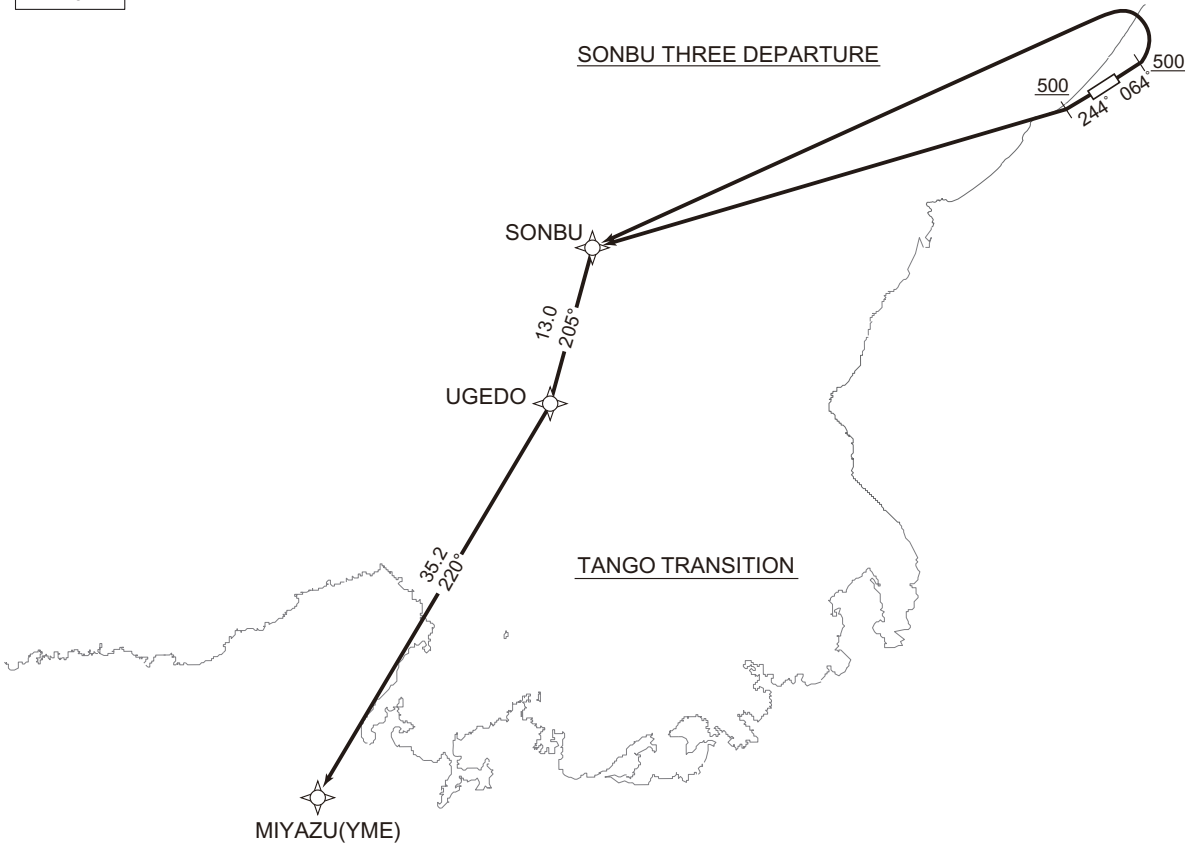
RJNK / KOMATSU

RNAV SID and TRANSITION

SONBU THREE DEPARTURE TANGO TRANSITION	RNP1
-------------------------------------------	------

Note GNSS required.

VAR 9°W



SONBU THREE DEPARTURE

RWY06 : Climb on HDG064° at or above 500FT, turn left direct to SONBU.  
RWY24 : Climb on HDG244° at or above 500FT, turn right direct to SONBU.

TANGO TRANSITION

From SONBU, to UGEDO, to YME.

CHANGE : TANGO TRANSITION, UGEDO established. SID renamed. VAR. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID and TRANSITION

CHANGE :TANGO TRANSITION, Waypoint Coordinates, UGEDO established. SID renamed. PROC course. VAR. Navigation Specification.

SONBU THREE DEPARTURE

RWY06

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	—	—	064 (055.0)	-8.6	—	—	+500	—	—	RNP1
002	DF	SONBU	—	—	-8.6	—	L	—	—	—	RNP1

RWY24

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	—	—	244 (235.0)	-8.6	—	—	+500	—	—	RNP1
002	DF	SONBU	—	—	-8.6	—	R	—	—	—	RNP1

TANGO TRANSITION

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	SONBU	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	UGEDO	—	205 (196.3)	-8.6	13.0	—	—	—	—	RNP1
003	TF	YME	—	220 (211.1)	-8.6	35.2	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
SONBU	361132.3N / 1353502.9E
UGEDO	355902.0N / 1353032.1E
YME	352850.5N / 1350813.3E

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

SID

NOTO THREE DEPARTURE

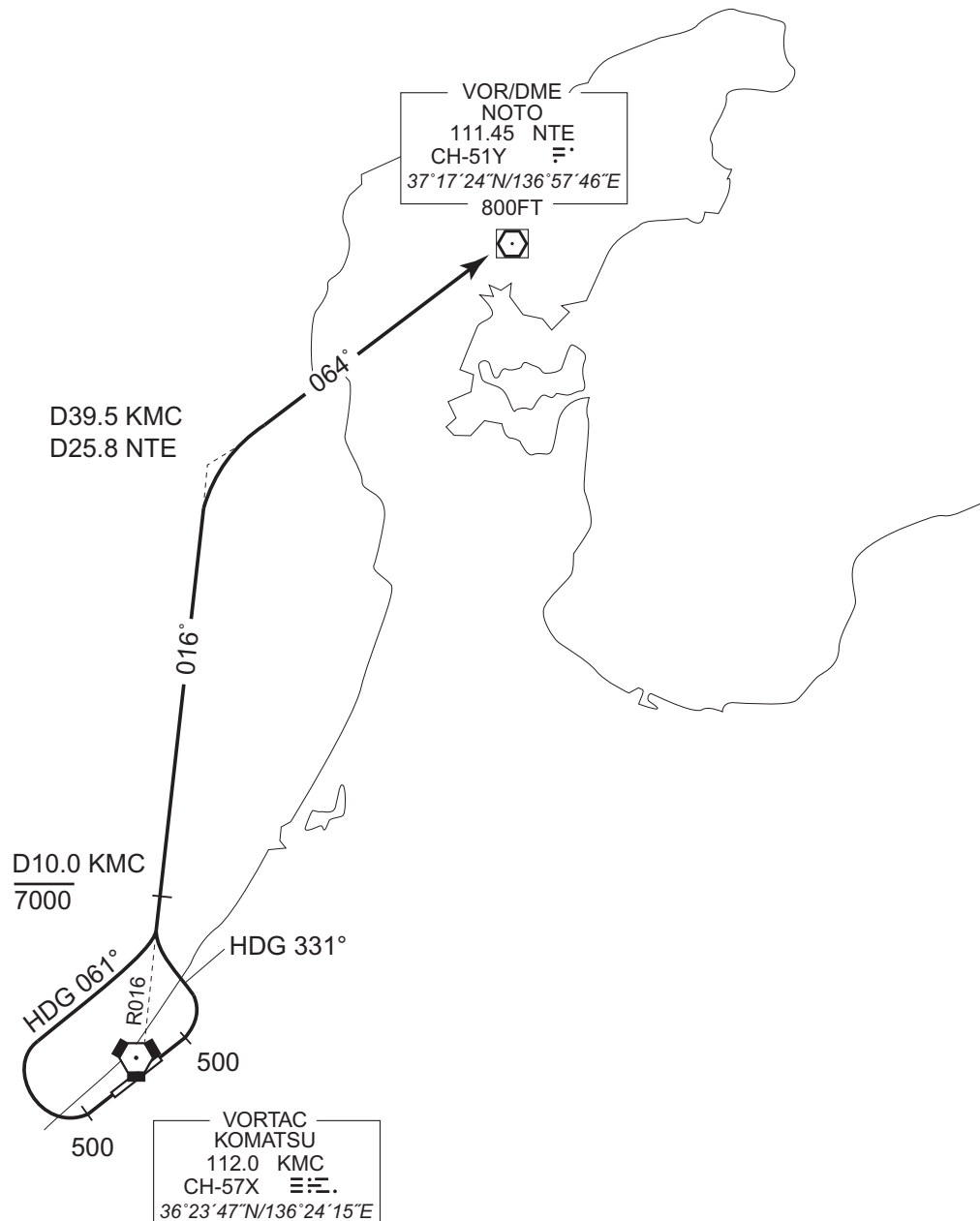
RWY06: Climb RWY HDG to 500FT, turn left HDG 331°...

RWY24: Climb RWY HDG to 500FT, turn right HDG 061°...

...to intercept and proceed via KMC R016, via NTE R244 to NTE VOR/DME.

Cross KMC R016/10.0DME at or below 7000FT.

CHANGE : SID renamed. PROC course.





## STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

SID

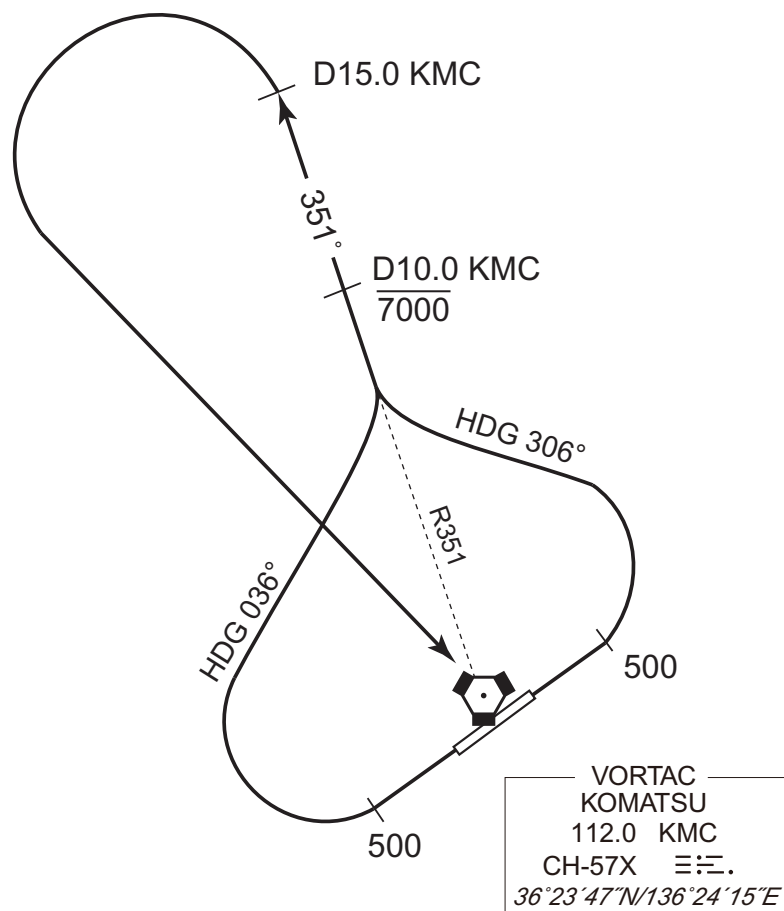
KOMATSU REVERSAL FOUR DEPARTURE

RWY 06 : Climb RWY HDG to 500FT, turn left HDG 306°...

RWY 24 : Climb RWY HDG to 500FT, turn right HDG 036°...

...to intercept and proceed via KMC R351 to 15.0DME, turn left, direct to KMC VORTAC.

Cross KMC R351/10.0DME at or below 7000FT.



CHANGE : SID renamed. PROC course. MIYAZU FOUR DEPARTURE abolished.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

SID and TRANSITION

KAGA FIVE DEPARTURE

RWY 06 : Climb RWY HDG to 500FT, turn left HDG 216°...

RWY 24 : Climb RWY HDG to 500FT, turn right,...

...to intercept and proceed via KMC R261 to SONBU.

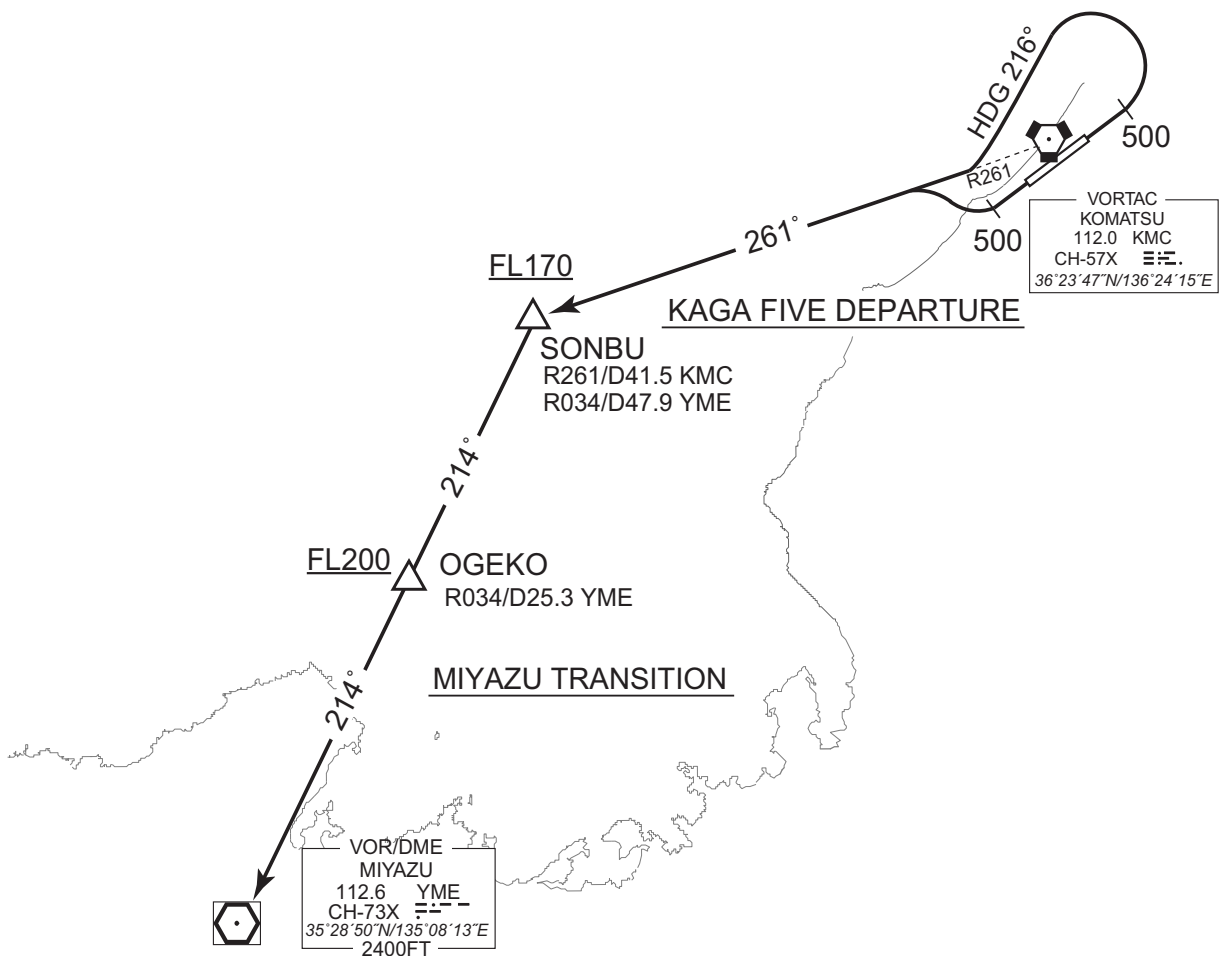
Cross SONBU at or above FL170.

MIYAZU TRANSITION

From over SONBU, via YME R034 to YME VOR/DME via OGEKO.

Cross OGEKO at or above FL200.

CHANGE : Correction of description.



**INTENTIONALLY LEFT BLANK**

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

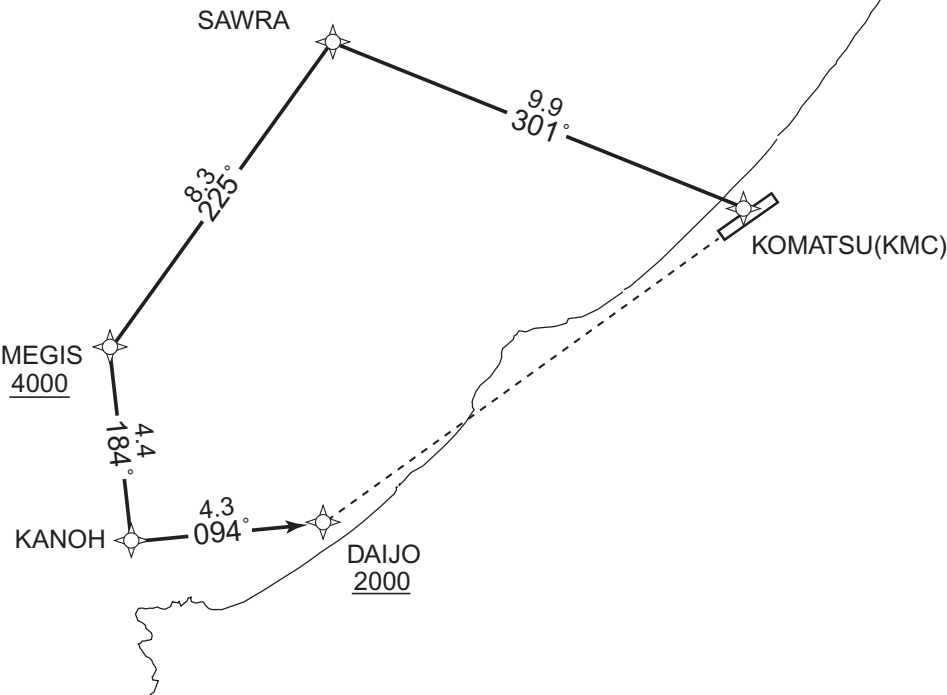
RNAV STAR RWY06

KOMATSU WEST ARRIVAL

RNP1

Note GNSS required.

VAR 9°W



From KMC, to SAWRA, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

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	KMC	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	SAWRA	—	301 (292.6)	-8.6	9.9	—	—	—	—	RNP1
003	TF	MEGIS	—	225 (216.5)	-8.6	8.3	—	+4000	—	—	RNP1
004	TF	KANOH	—	184 (175.0)	-8.6	4.4	—	—	—	—	RNP1
005	TF	DAIJO	—	094 (084.9)	-8.6	4.3	—	+2000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
KMC	362347.3N / 1362415.3E
SAWRA	362735.2N / 1361253.1E
MEGIS	362054.4N / 1360645.1E
KANOH	361631.0N / 1360713.9E
DAIJO	361653.7N / 1361231.8E

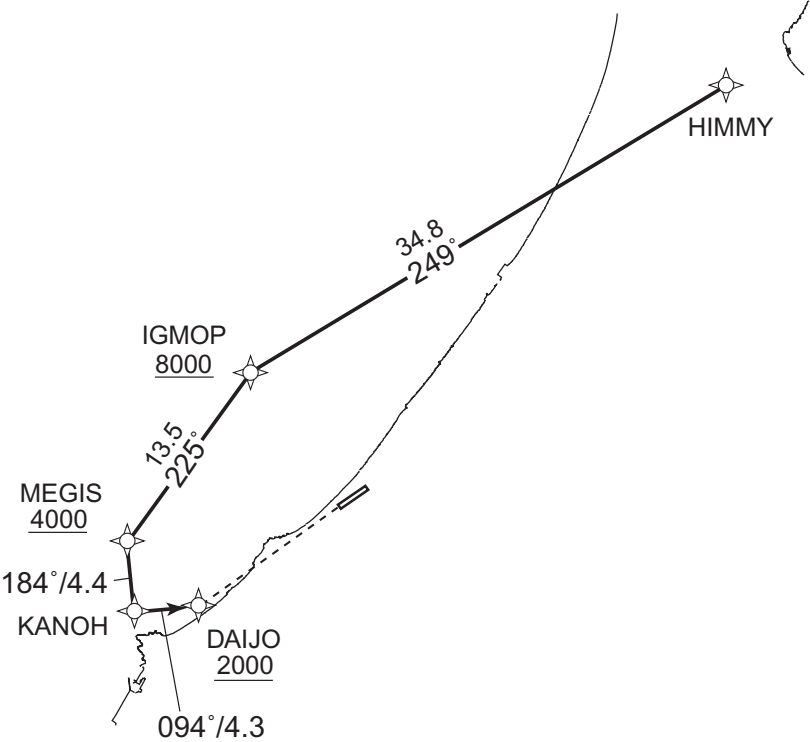
CHANGE : PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU	RNAV STAR RWY06
HIMMY WEST ARRIVAL	RNP1

Note GNSS required.

VAR 9°W



From HIMMY, to IGMOP at or above 8000FT, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

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	HIMMY	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	IGMOP	—	249 (239.9)	-8.6	34.8	—	+8000	—	—	RNP1
003	TF	MEGIS	—	225 (216.5)	-8.6	13.5	—	+4000	—	—	RNP1
004	TF	KANOH	—	184 (175.0)	-8.6	4.4	—	—	—	—	RNP1
005	TF	DAIJO	—	094 (084.9)	-8.6	4.3	—	+2000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
HIMMY	364916.0N / 1365406.9E
IGMOP	363143.7N / 1361642.1E
MEGIS	362054.4N / 1360645.1E
KANOH	361631.0N / 1360713.9E
DAIJO	361653.7N / 1361231.8E

CHANGE : IGMOP established. PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

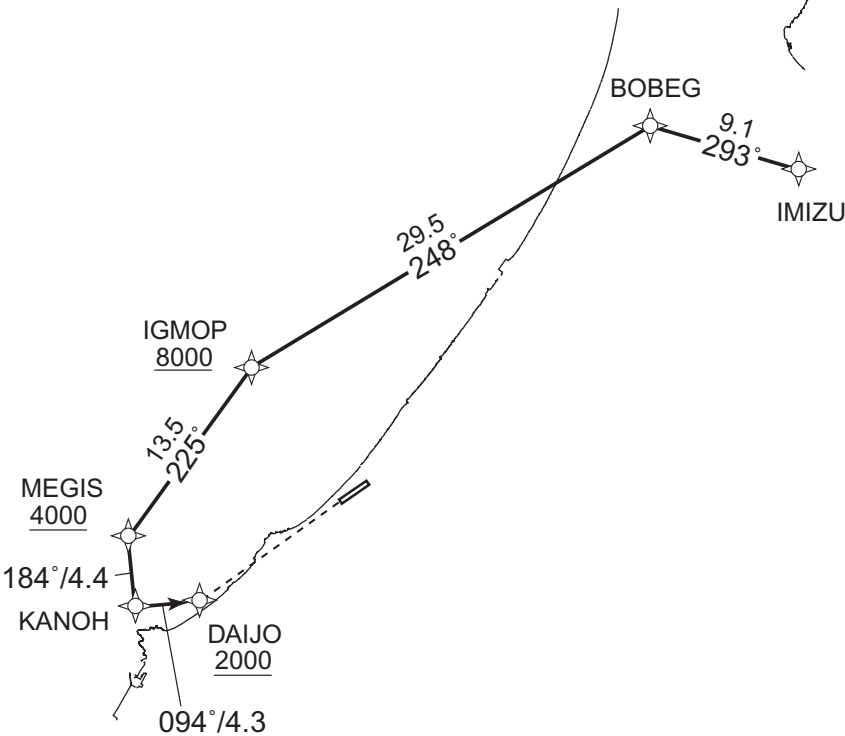
RNAV STAR RWY06

IMIZU WEST ARRIVAL

RNP1

Note GNSS required.

VAR 9°W



From IMIZU, to BOBEG, to IGMOP at or above 8000FT, to MEGIS at or above 4000FT, to KANOH, to DAIJO at or above 2000FT.

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	IMIZU	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	BOBEG	—	293 (284.4)	-8.6	9.1	—	—	—	—	RNP1
003	TF	IGMOP	—	248 (239.8)	-8.6	29.5	—	+8000	—	—	RNP1
004	TF	MEGIS	—	225 (216.5)	-8.6	13.5	—	+4000	—	—	RNP1
005	TF	KANOH	—	184 (175.0)	-8.6	4.4	—	—	—	—	RNP1
006	TF	DAIJO	—	094 (084.9)	-8.6	4.3	—	+2000	—	—	RNP1

Waypoint Coordinates

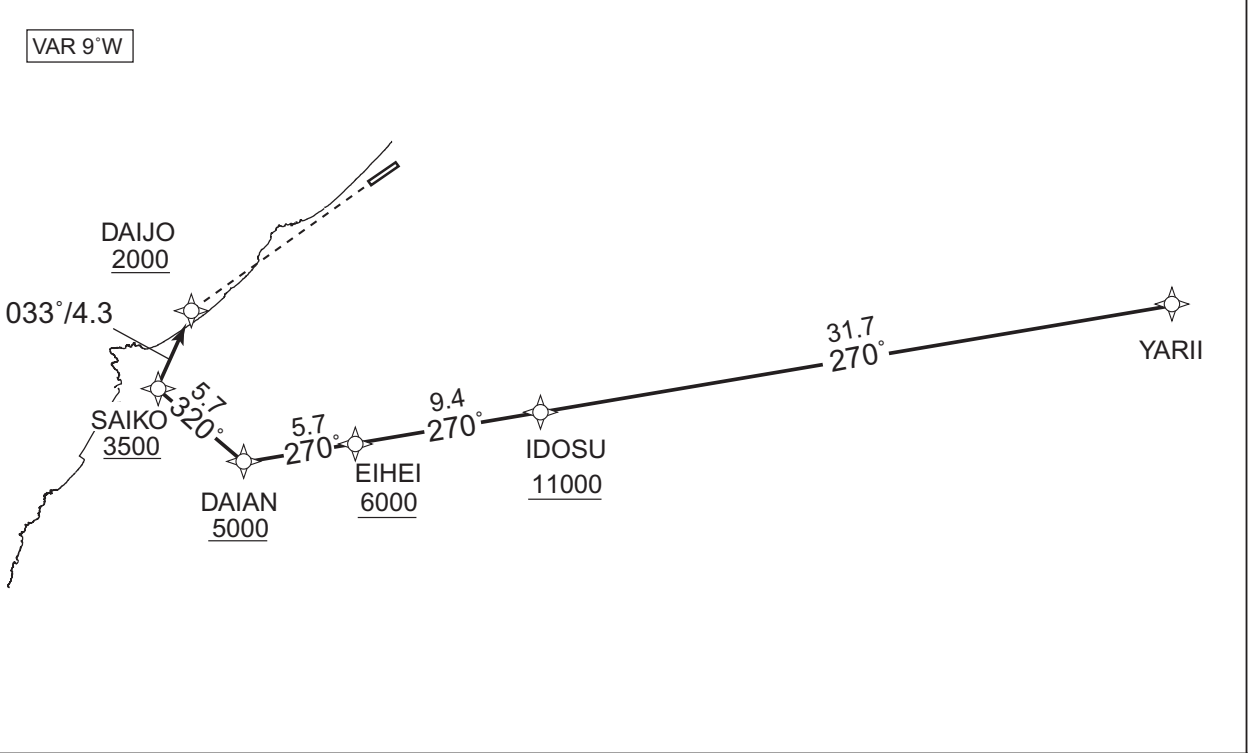
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
IMIZU	364422.4N / 1365925.6E	MEGIS	362054.4N / 1360645.1E
BOBEG	364637.5N / 1364826.0E	KANOH	361631.0N / 1360713.9E
IGMOP	363143.7N / 1361642.1E	DAIJO	361653.7N / 1361231.8E

CHANGE : BOBEG, IGMOP established. PROC course. VAR. DIST FM IMIZU to IGMOP. Navigation Specification. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU	RNAV STAR RWY06
YARII WEST ARRIVAL	RNP1

Note GNSS required.



From YARII, to IDOSU at or above 11000FT, to EIHEI at or above 6000FT, to DAIAN at or above 5000FT, to SAIKO at or above 3500FT, to DAIJO at or above 2000FT.

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	YARII	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	IDOSU	—	270 (261.6)	-8.6	31.7	—	+11000	—	—	RNP1
003	TF	EIHEI	—	270 (261.3)	-8.6	9.4	—	+6000	—	—	RNP1
004	TF	DAIAN	—	270 (261.1)	-8.6	5.7	—	+5000	—	—	RNP1
005	TF	SAIKO	—	320 (311.3)	-8.6	5.7	—	+3500	—	—	RNP1
006	TF	DAIJO	—	033 (024.9)	-8.6	4.3	—	+2000	—	—	RNP1

Waypoint Coordinates

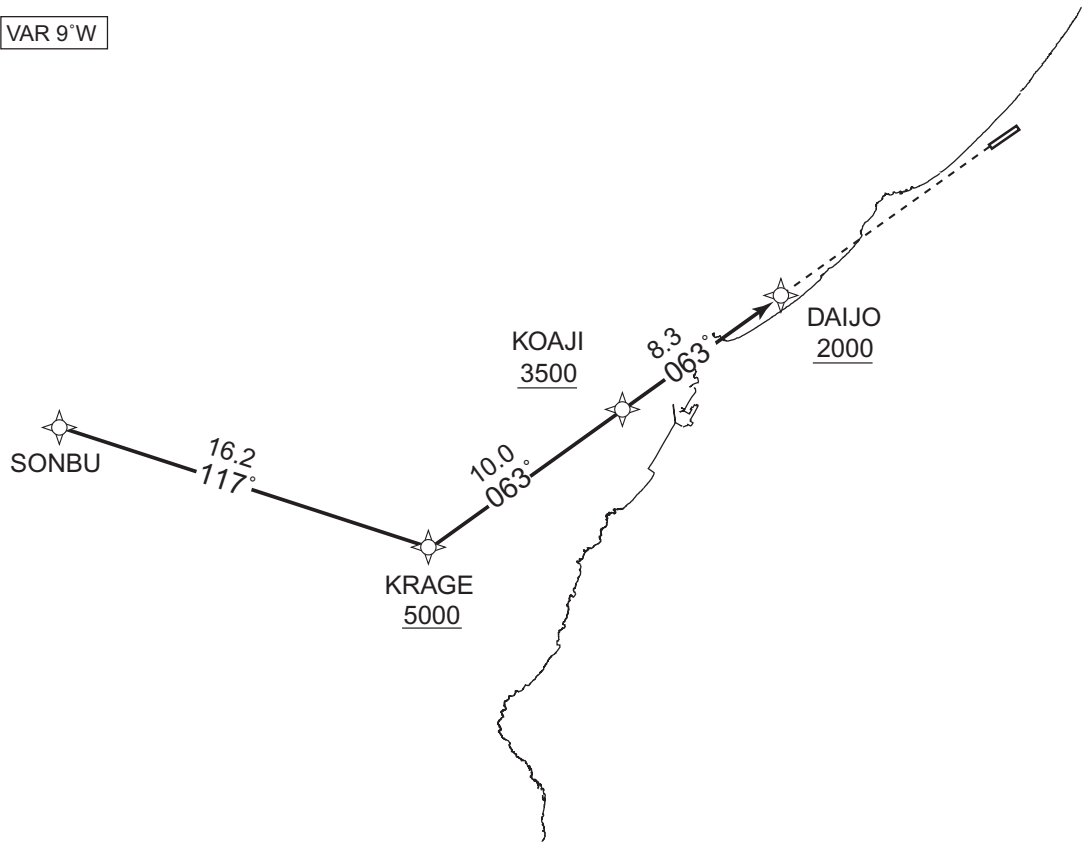
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
YARII	361613.6N / 1371252.5E	DAIAN	360912.7N / 1361537.5E
IDOSU	361131.0N / 1363400.2E	SAIKO	361259.4N / 1361017.1E
EIHEI	361005.1N / 1362232.5E	DAIJO	361653.7N / 1361231.8E

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU	RNAV STAR RWY06
SONBU WEST ARRIVAL	RNP1

Note GNSS required.

VAR 9°W



From SONBU, to KRAGE at or above 5000FT, to KOAJI at or above 3500FT, to DAIJO at or above 2000FT.

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	SONBU	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	KRAGE	—	117 (108.5)	-8.6	16.2	—	+5000	—	—	RNP1
003	TF	KOAJI	—	063 (054.7)	-8.6	10.0	—	+3500	—	—	RNP1
004	TF	DAIJO	—	063 (054.8)	-8.6	8.3	—	+2000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
SONBU	361132.3N / 1353502.9E
KRAGE	360622.8N / 1355404.3E
KOAJI	361208.8N / 1360410.4E
DAIJO	361653.7N / 1361231.8E

CHANGE : PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

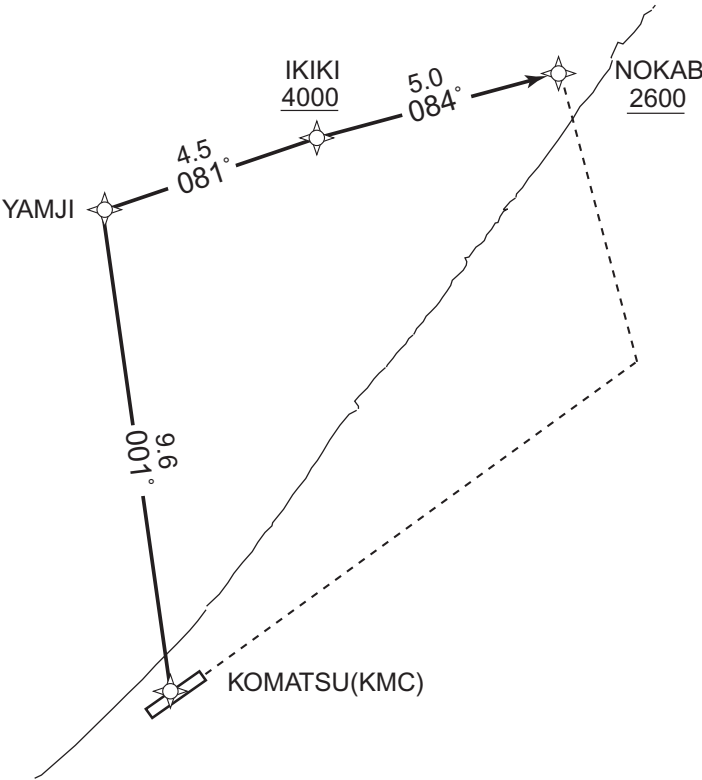


STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU	RNAV STAR RWY24
KOMATSU EAST ARRIVAL	RNP1

Note GNSS required.

VAR 9°W



From KMC, to YAMJI, to IKIKI at or above 4000FT, to NOKAB at or above 2600FT.

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	KMC	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	YAMJI	—	001 (352.5)	-8.6	9.6	—	—	—	—	RNP1
003	TF	IKIKI	—	081 (072.2)	-8.6	4.5	—	+4000	—	—	RNP1
004	TF	NOKAB	—	084 (075.6)	-8.6	5.0	—	+2600	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
KMC	362347.3N / 1362415.3E
YAMJI	363316.8N / 1362242.5E
IKIKI	363438.8N / 1362801.2E
NOKAB	363553.0N / 1363402.3E

STANDARD ARRIVAL CHART-INSTRUMENT

RJNK / KOMATSU

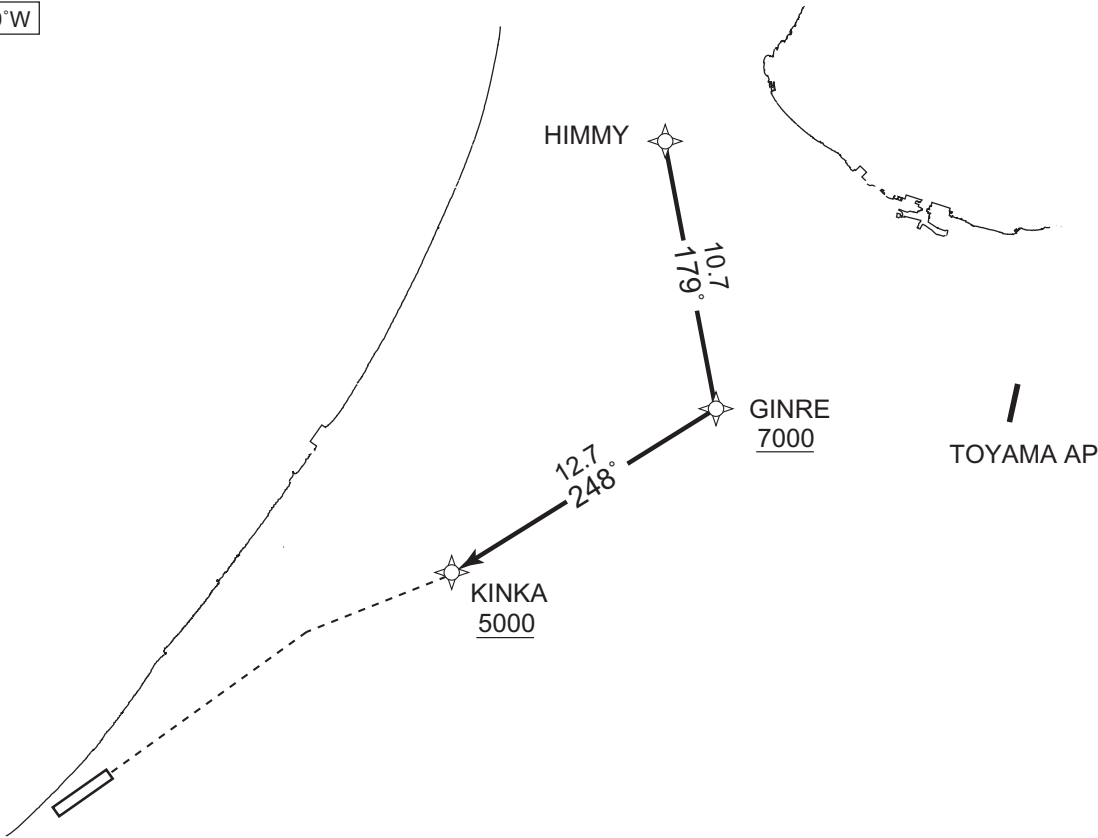
RNAV STAR RWY24

HIMMY EAST ARRIVAL

RNP1

Note GNSS required.

VAR 9°W



From HIMMY, to GINRE at or above 7000FT, to KINKA at or above 5000FT.

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	HIMMY	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	GINRE	—	179 (170.4)	-8.6	10.7	—	+7000	—	—	RNP1
003	TF	KINKA	—	248 (239.1)	-8.6	12.7	—	+5000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
HIMMY	364916.0N / 1365406.9E
GINRE	363841.4N / 1365621.2E
KINKA	363210.7N / 1364250.6E

CHANGE : PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

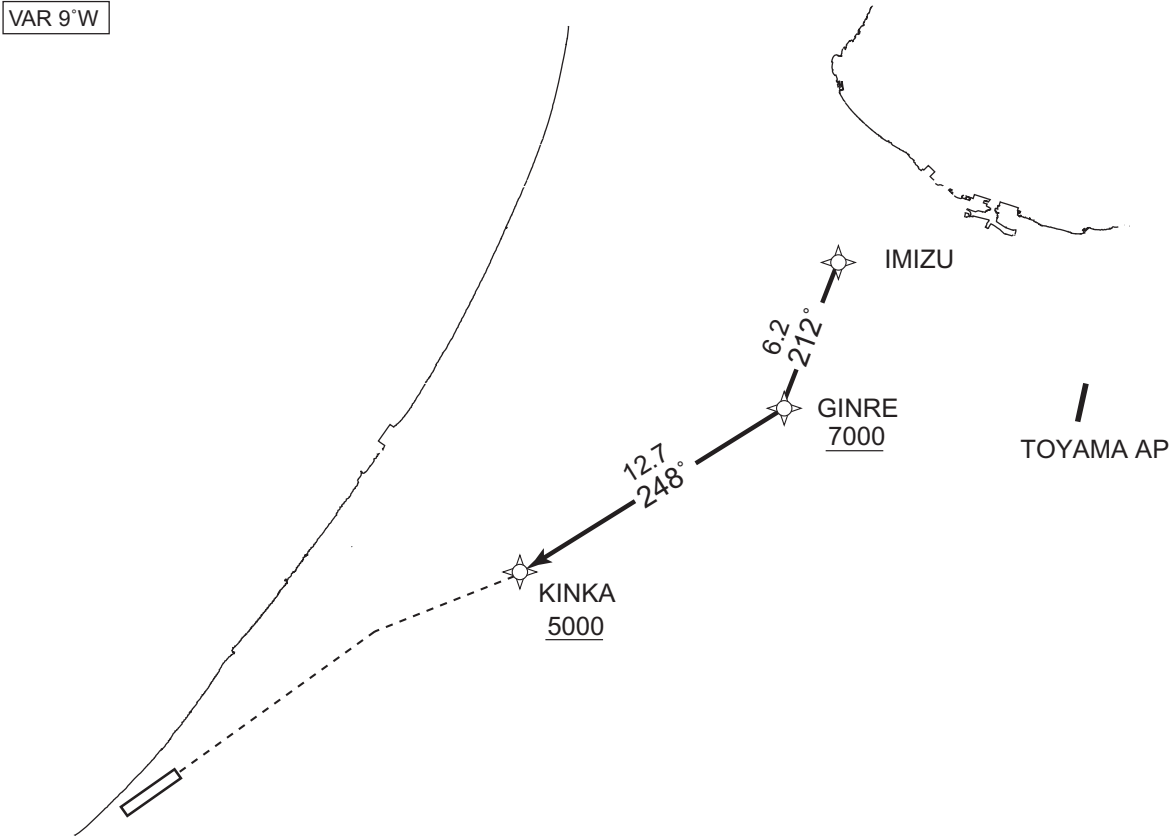
RJNK / KOMATSU

RNAV STAR RWY24

IMIZU EAST ARRIVAL

RNP1

Note GNSS required.



From IMIZU, to GINRE at or above 7000FT, to KINKA at or above 5000FT.

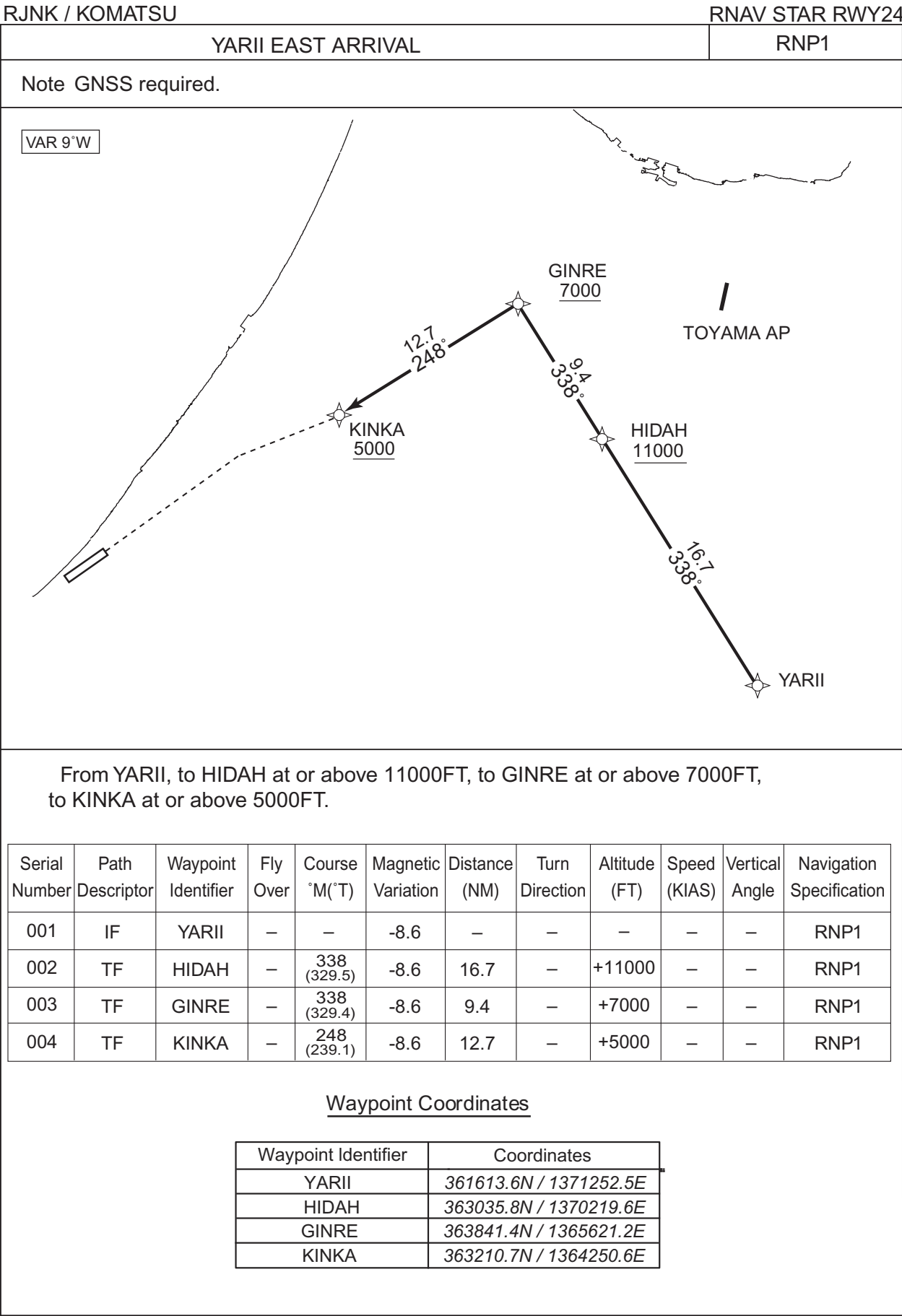
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	IMIZU	—	—	-8.6	—	—	—	—	—	RNP1
002	TF	GINRE	—	212 (203.4)	-8.6	6.2	—	+7000	—	—	RNP1
003	TF	KINKA	—	248 (239.1)	-8.6	12.7	—	+5000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
IMIZU	364422.4N / 1365925.6E
GINRE	363841.4N / 1365621.2E
KINKA	363210.7N / 1364250.6E

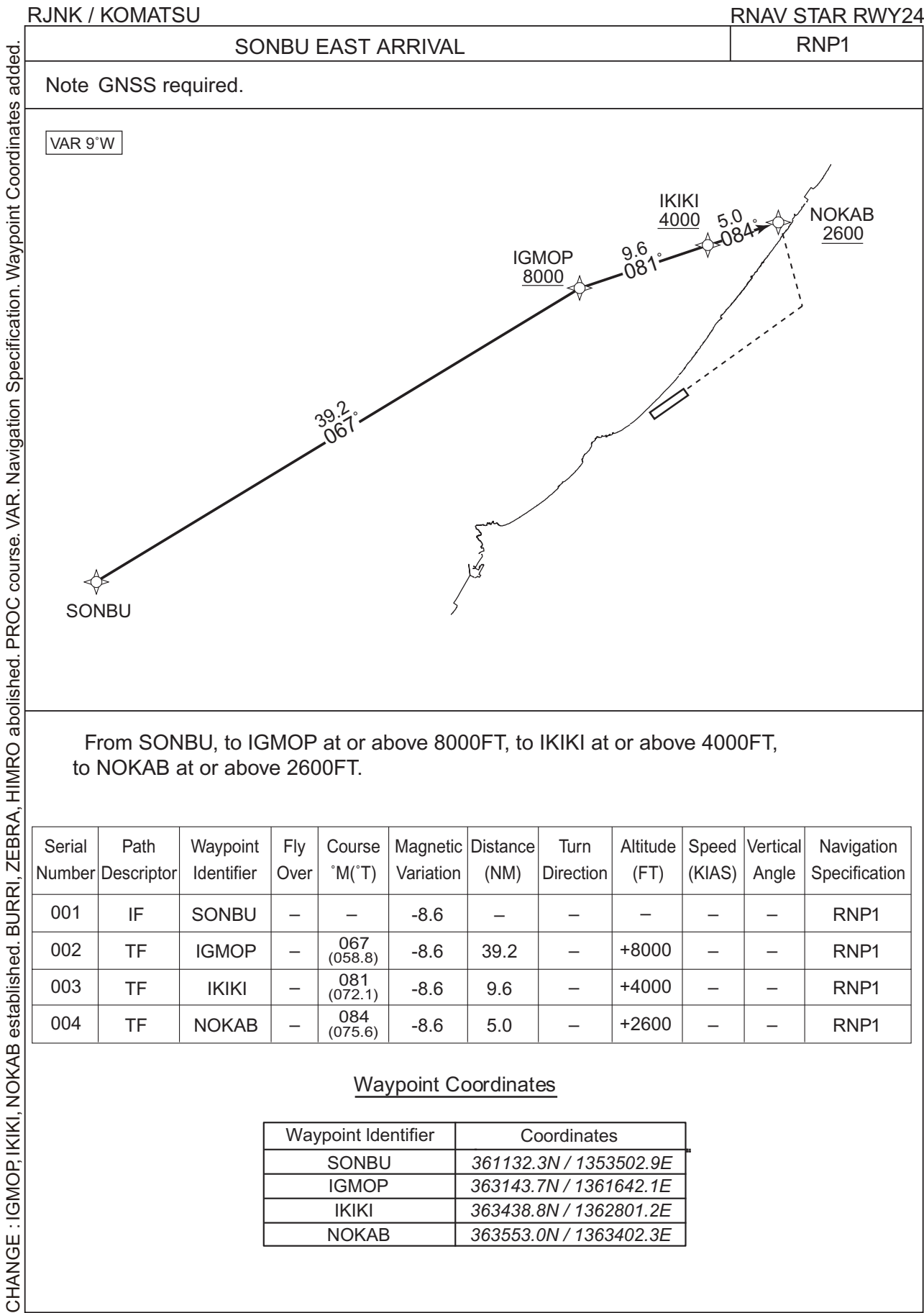
CHANGE : PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT



CHANGE : PROC course. VAR. Navigation Specification. Waypoint Coordinates added.

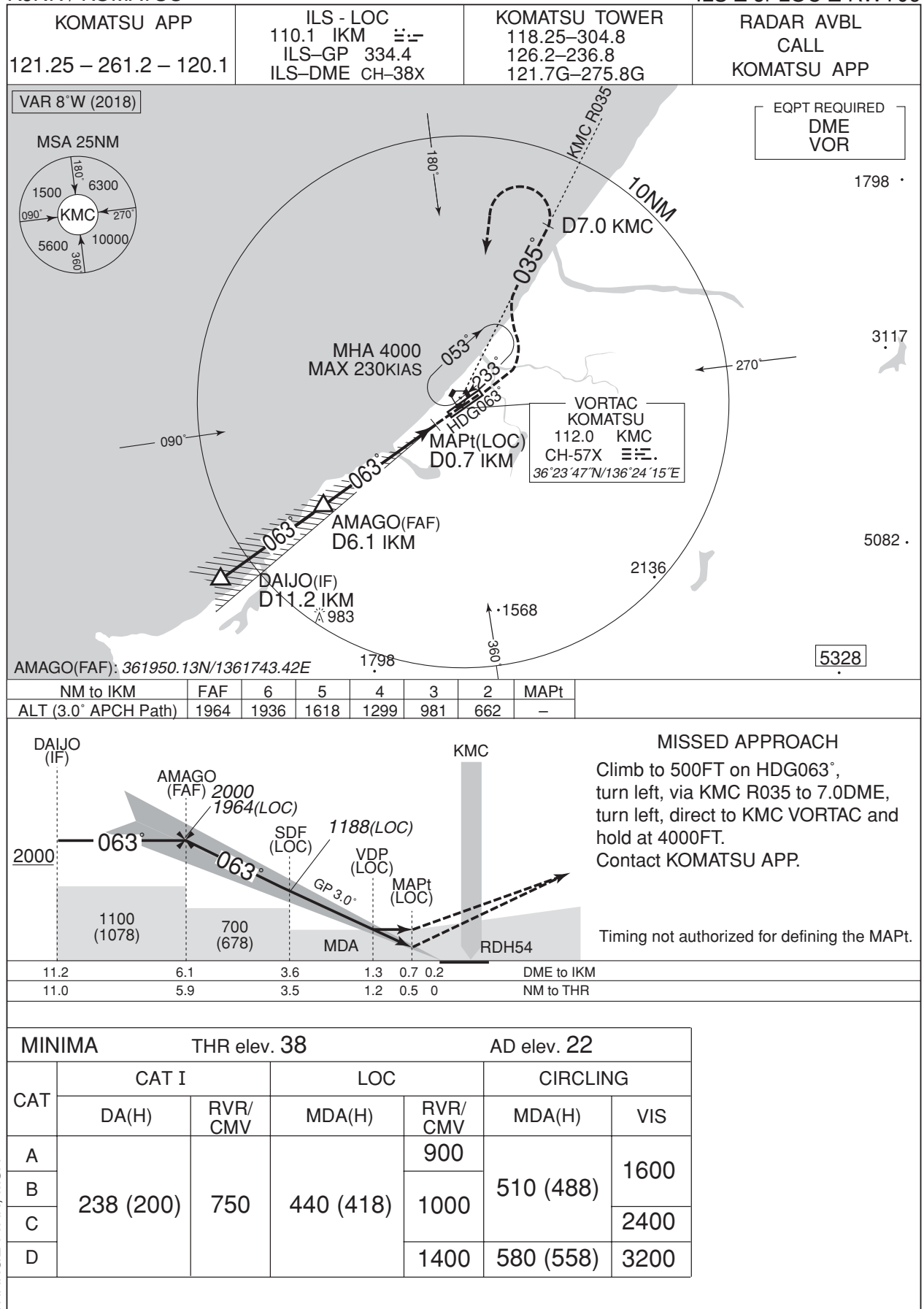
STANDARD ARRIVAL CHART-INSTRUMENT



## INSTRUMENT APPROACH CHART

RJNK / KOMATSU

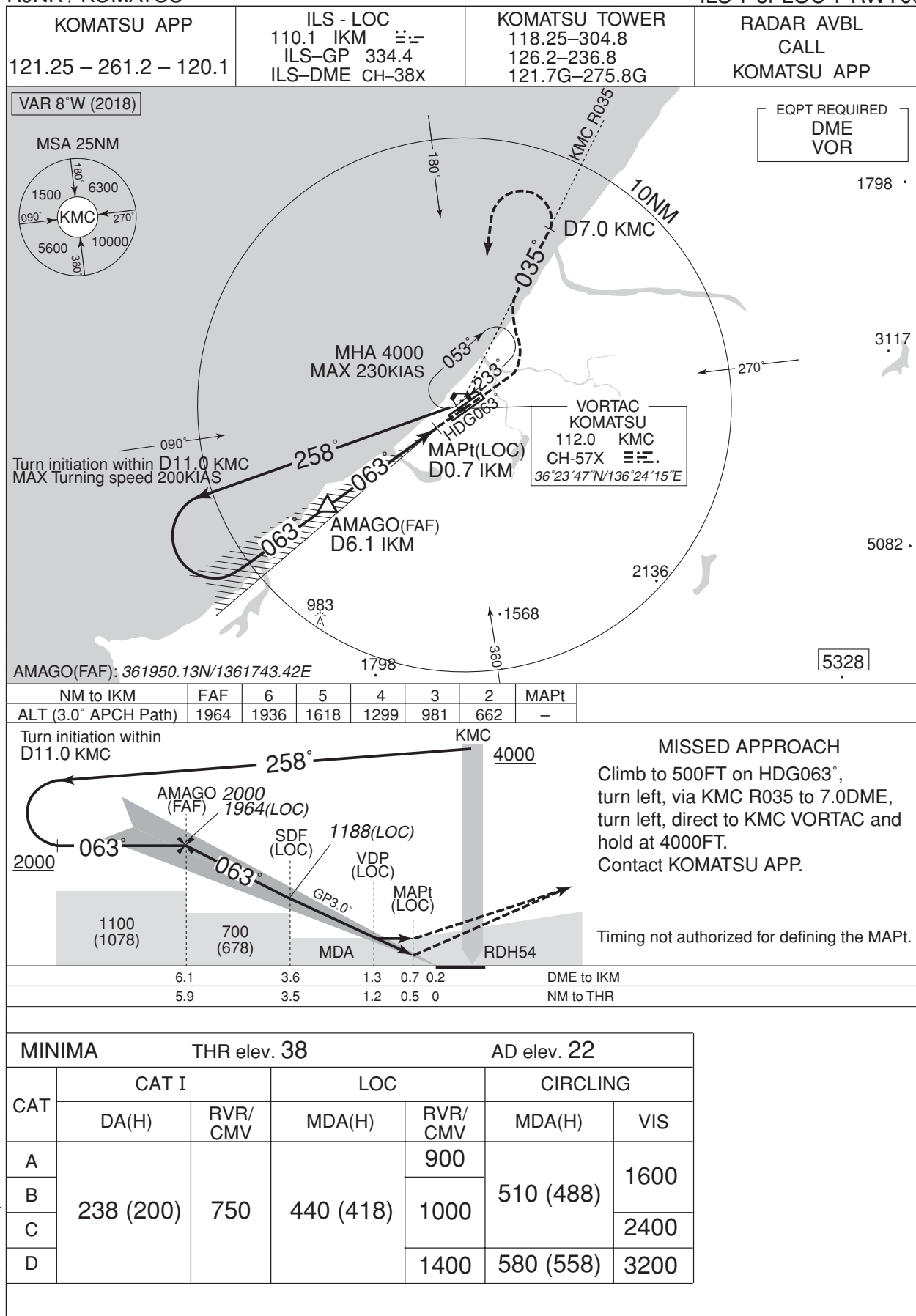
ILS Z or LOC Z RWY06



## INSTRUMENT APPROACH CHART

RJNK / KOMATSU

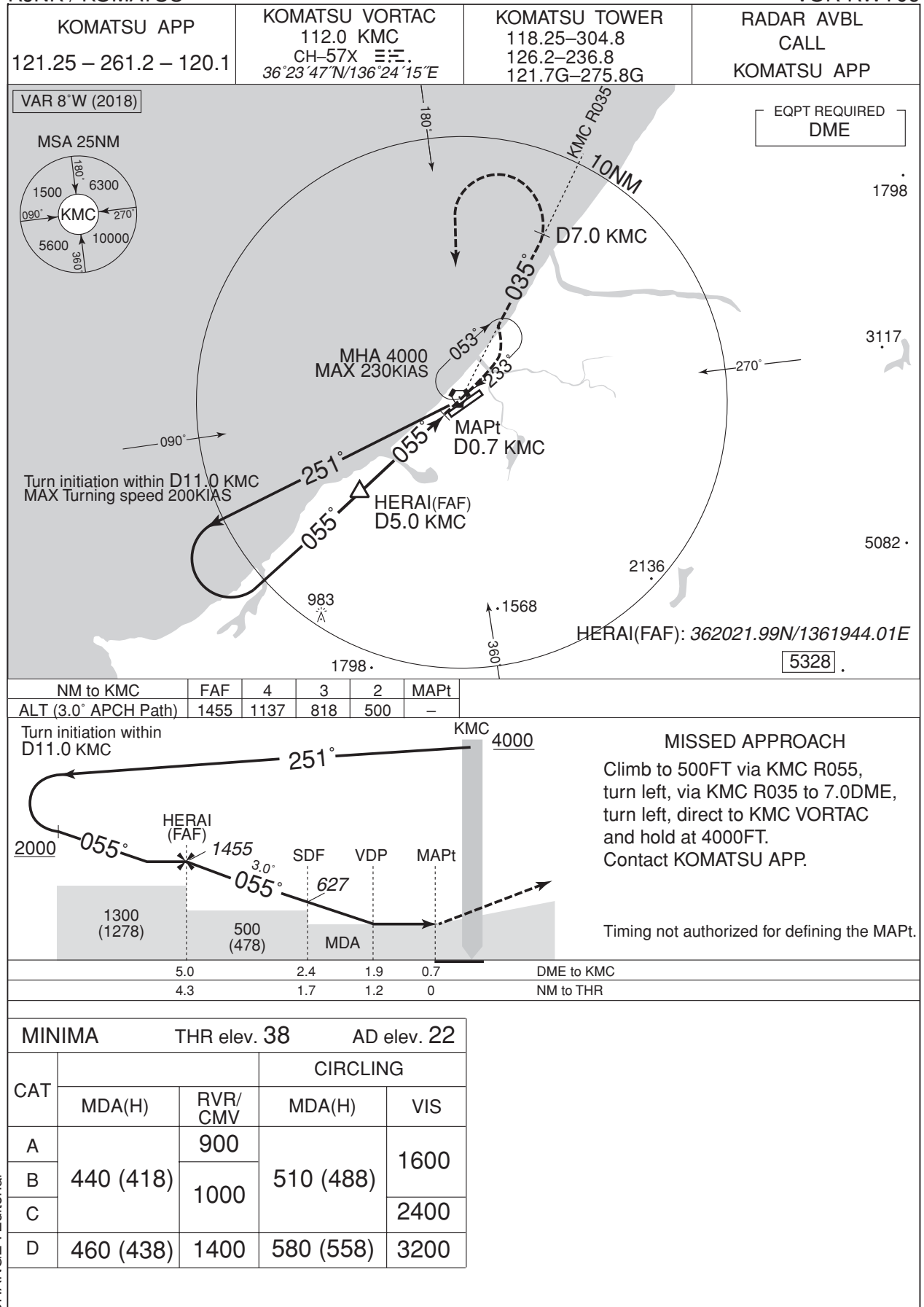
ILS Y or LOC Y RWY06



## INSTRUMENT APPROACH CHART

RJNK / KOMATSU

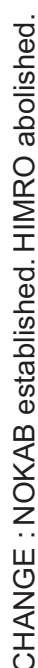
VOR RWY06



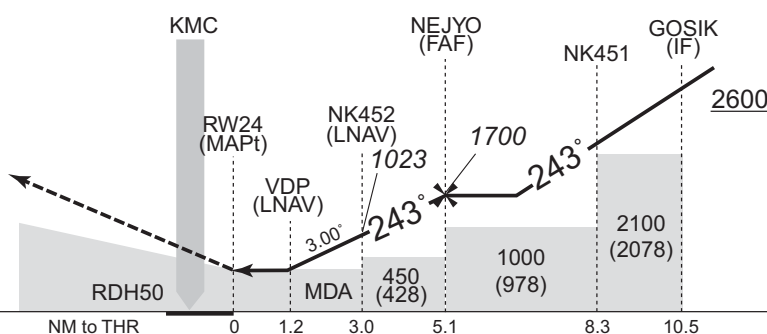


## RJNK / KOMATSU

RNP RWY24



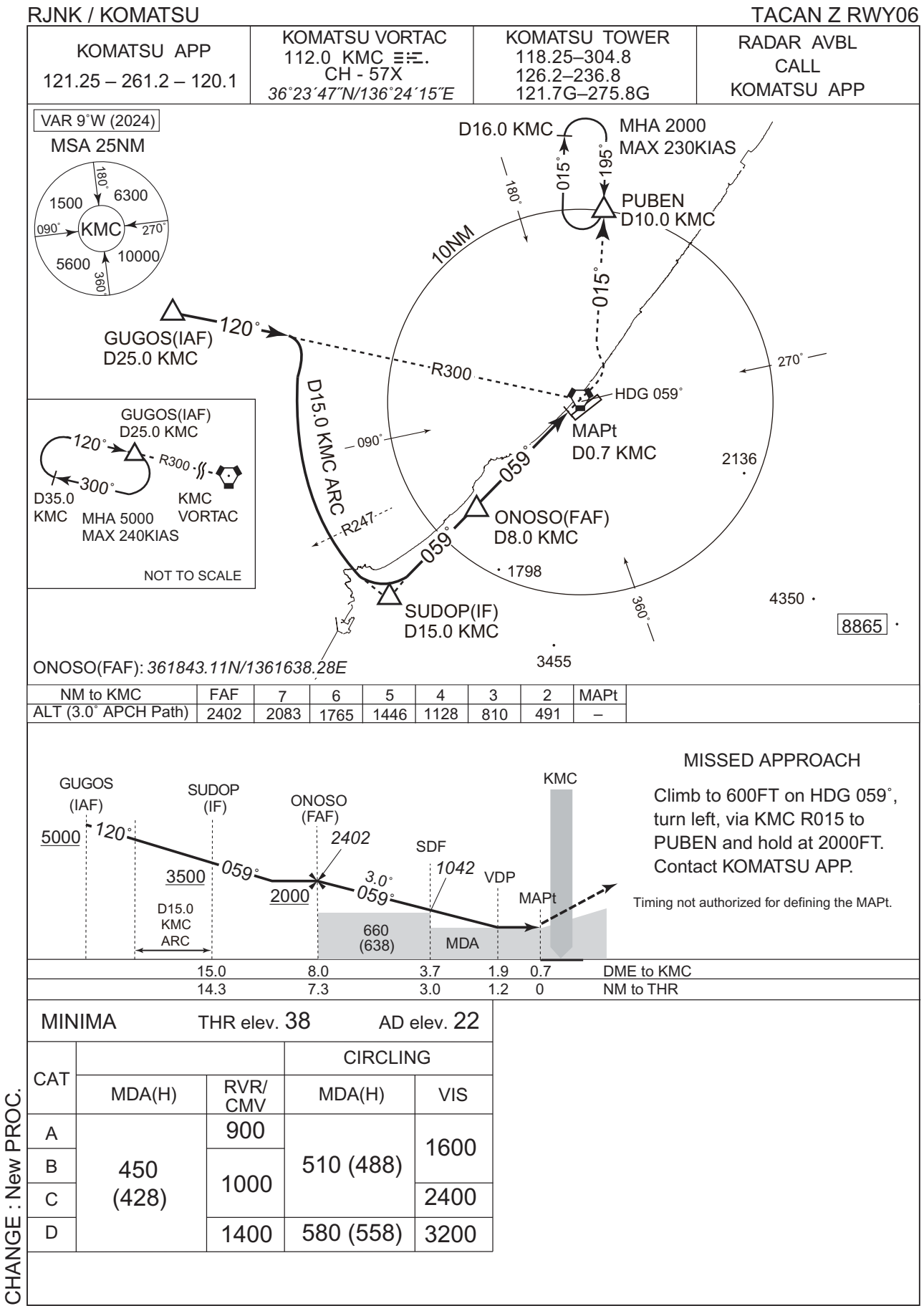
Climb to 3000FT via KMC R286  
to GOZEN and hold.  
Contact KOMATSU APP.



MINIMA		THR elev. 18	AD elev. 22			
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	430 (412)	1200	430 (408)	1200	510 (488)	1600
B		1300		1300		
C		1400		1400		2400
D		1600		1600	580 (558)	3200

**INTENTIONALLY LEFT BLANK**

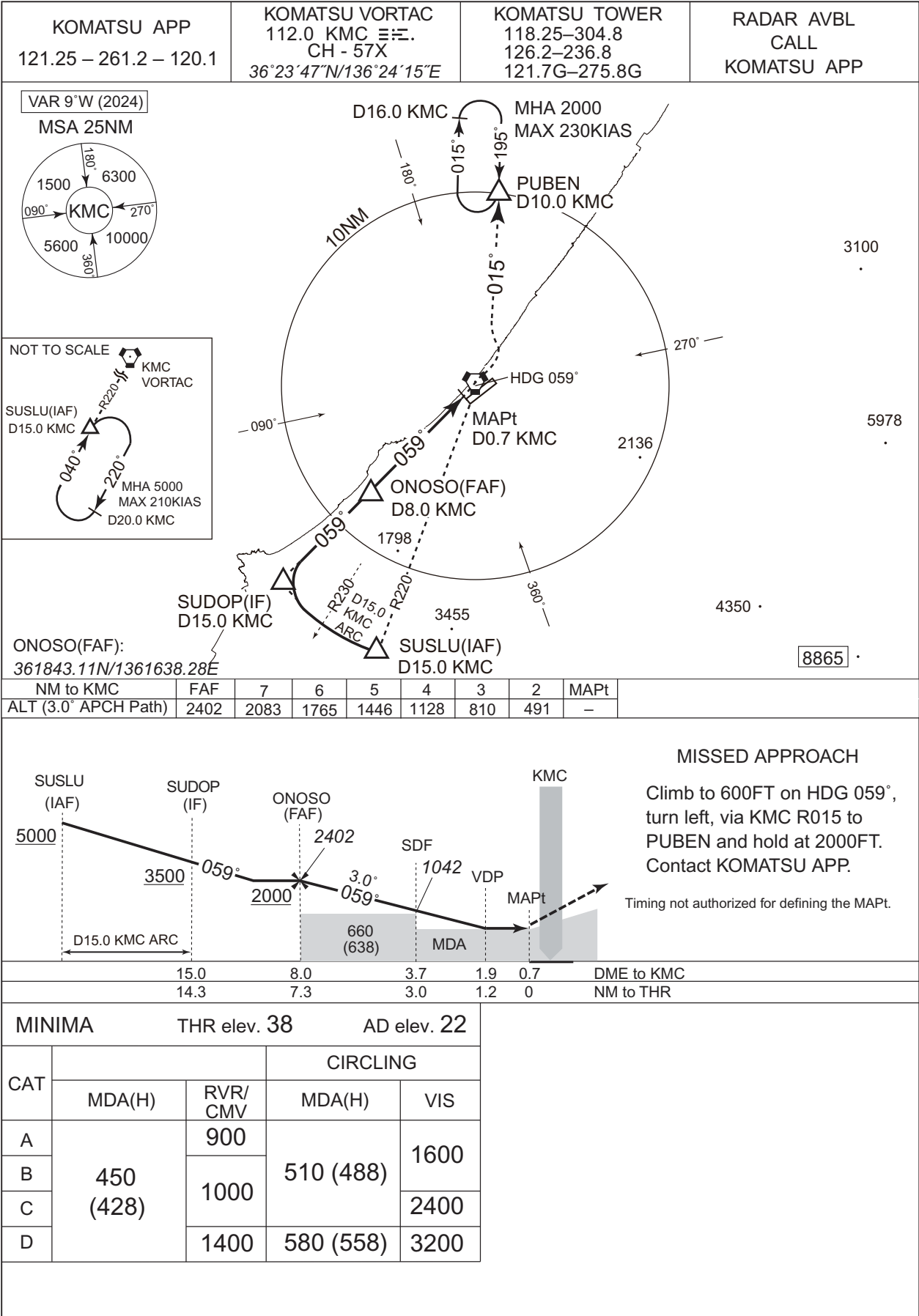
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJNK / KOMATSU

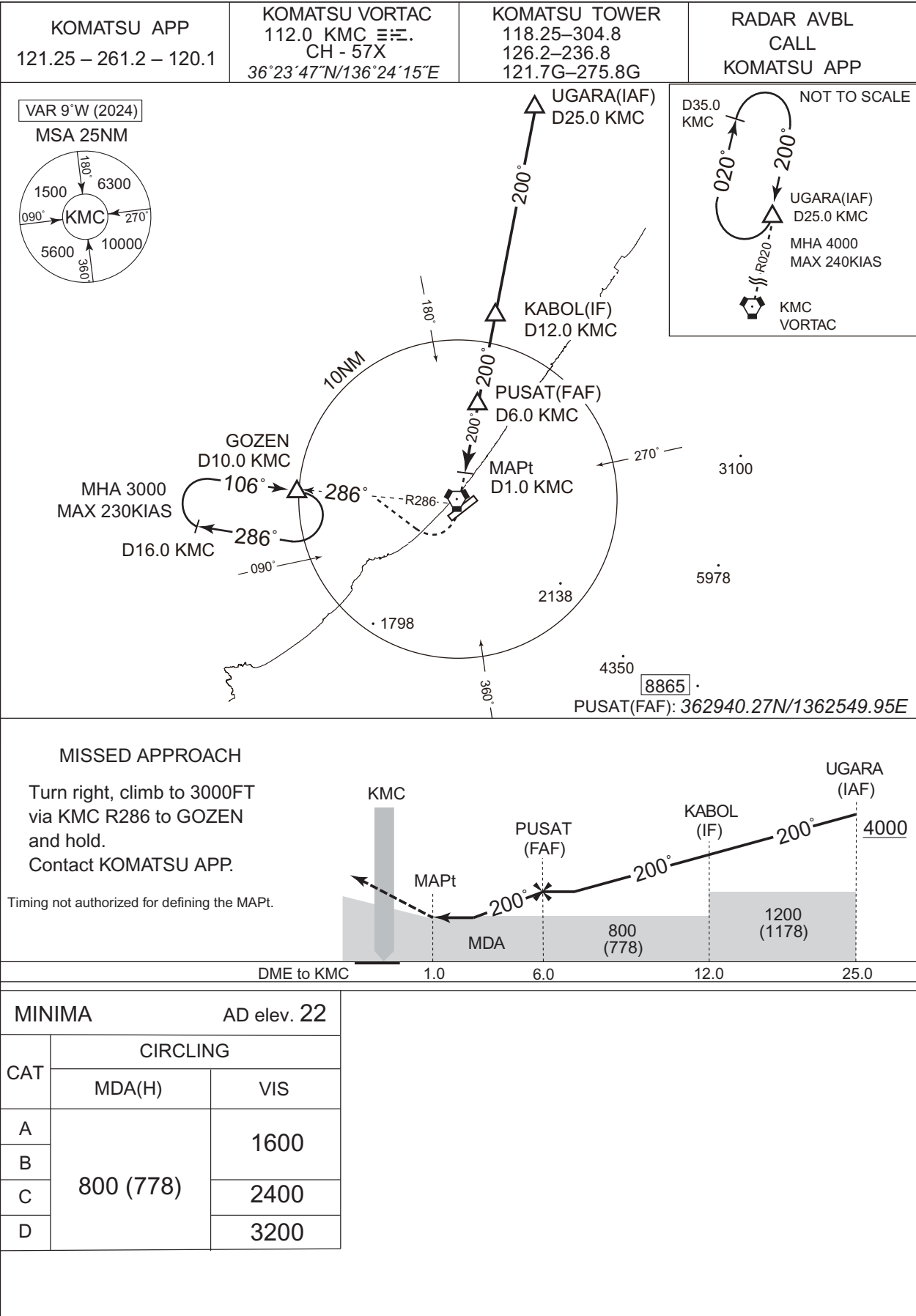
TACAN Y RWY06

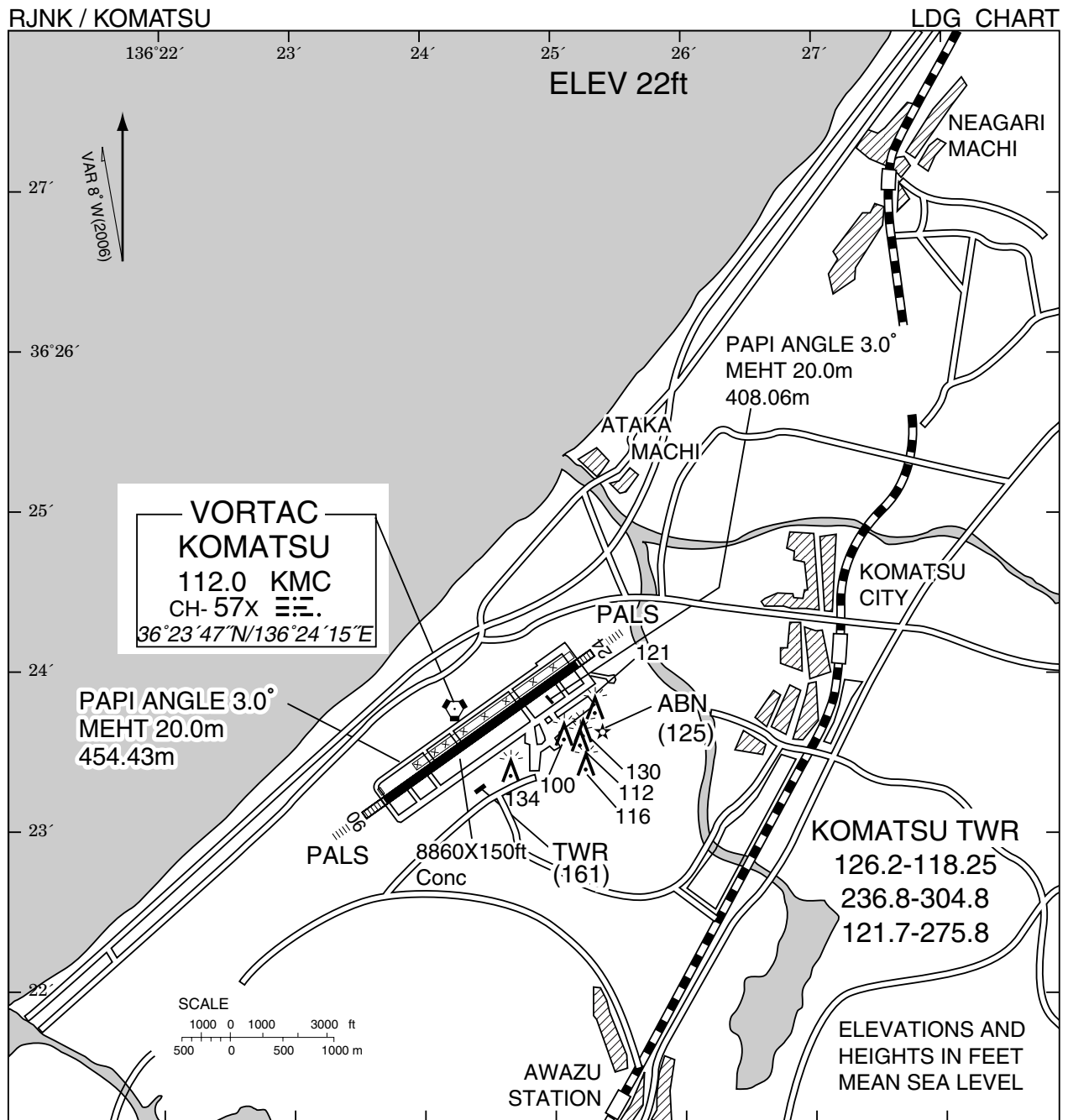


INSTRUMENT APPROACH CHART

RJNK / KOMATSU

TACAN A





注： 小松飛行場の本滑走路の供用開始に伴い、着陸する航空機は、運用を廃止した仮設滑走路に誤認着陸しないように注意すること。

Note: With an in-service start of this runway of Komatsu aerodrome, warn a landing aircraft not to land at the out-service temporary runway.

備考：1. 仮設滑走路には禁止標識が設置される（300m以内に1個標準）。

2. 航空機の到着機がある場合は、気象状態にかかわらず着陸滑走路の進入灯が常時点灯される。

3. 管制官からの着陸許可発出後に注意喚起のため、次の用語が通報される場合がある。

用語例：「VERIFY LANDING RUNWAY.」

Rem: 1. A closed marking is installed in a temporary runway (one less than 300m, standard).

2. When there is arrival aircraft, approach lights of a landing runway is always turned on regardless of a weather state.

3. There is the case that the next term is reported to for attention awakening after a landing permission from a ATC.

A term example : 「VERIFY LANDING RUNWAY.」 .

## Minimum Vectoring Altitude CHART

The diagram is a polar plot showing the radiation pattern of an antenna. The radial distance from the center represents the range in NM (Nautical Miles), with concentric circles labeled 5NM, 10NM, 20NM, 30NM, 40NM, 50NM, 60NM, and 80NM. The angular position represents the azimuth angle in degrees, with radial lines every 10 degrees from 030° to 235°. The gain in dBS is indicated by the radial distance from the center, with concentric circles labeled 3000, 4000, 5000, 6000, 7000, 8000, 10000, 12000, 15000, and 20000. The plot shows a main lobe pointing towards 064° and a smaller lobe pointing towards 235°. The gain values are labeled in each sector.

Angle (°)	5NM (dBS)	10NM (dBS)	20NM (dBS)	30NM (dBS)	40NM (dBS)	50NM (dBS)	60NM (dBS)	80NM (dBS)
030°	3000	4000	5000	6000	7000	8000	10000	12000
040°	3000	4000	5000	6000	7000	8000	10000	12000
050°	3000	4000	5000	6000	7000	8000	10000	12000
064°	3000	4000	5000	6000	7000	8000	10000	12000
074°	3000	4000	5000	6000	7000	8000	10000	12000
084°	3000	4000	5000	6000	7000	8000	10000	12000
120°	3000	4000	5000	6000	7000	8000	10000	12000
155°	3000	4000	5000	6000	7000	8000	10000	12000
180°	3000	4000	5000	6000	7000	8000	10000	12000
195°	3000	4000	5000	6000	7000	8000	10000	12000
215°	3000	4000	5000	6000	7000	8000	10000	12000
230°	3000	4000	5000	6000	7000	8000	10000	12000
235°	3000	4000	5000	6000	7000	8000	10000	12000
250°	3000	4000	5000	6000	7000	8000	10000	12000