

RNAV SID and TRANSITION RJNK / KOMATSU MANAH TWO DEPARTURE RNAV1 Note 1) DME/DME/IRU or GNSS required. RWY06 *The aircraft equipped with only DME/DME/IRU KMC, YME: 10NM to KAETU - 30NM to MANAH, must be able to update its position without delay at the starting point of take-off roll. 23NM to MANAH - 3NM to MANAH Critical DME RWY24 2) RADAR service required. KMC, YME: 23NM to MANAH - 3NM to MANAH RWY06 06DER - 10NM to KAETU DMF GAP 30NM to MANAH - 23NM to MANAH RWY24 24DER - 23NM to MANAH See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 Inappropriate Navaids VAR 8° W(2014) **VORTAC KOMATSU** 112.0 KMC CH-57X **≡**:=. 36°23′47″N/136°24′15″E 500 **KAETU** 362407.8N 1361447.7E 500 **AWAZU** 361946.6N 1361737.0E MANAH TWO DEPARTURE **MANAH** 355428.0N 1363223.1E KOMAKI TRANSITION **VORTAC NAGOYA** 114.2 KCC CH-89X ≣:≣: NAGOYA(KCC) 35°15′55″N/136°54′54″E -100FT 1365453.7E

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.

RJNK / KOMATSU

RNAV SID and TRANSITION

MANAH TWO DEPARTURE

RWY06

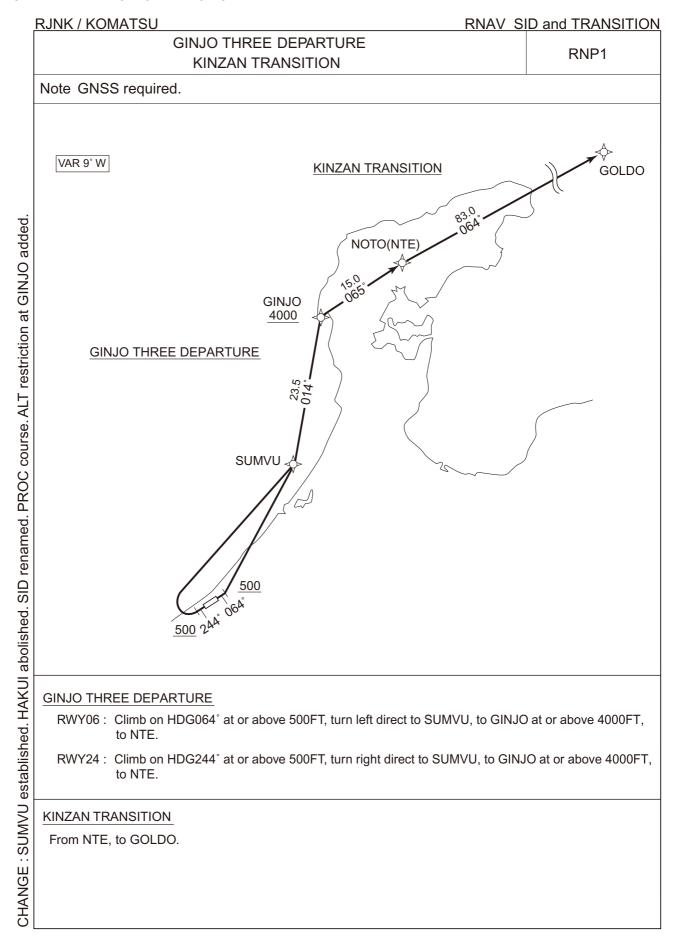
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	063 (055.0)	-7.7	_	_	+500	_	_	RNAV1
002	DF	KAETU	_	_	-7.7	_	L	-	_	_	RNAV1
003	TF	MANAH	_	162 (154.3)	-7.7	32.9	_	-	_	_	RNAV1

RWY24

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)		
001	VA	_	_	243 (235.0)	-7.7	_	_	+500	_	_	RNAV1
002	DF	AWAZU	Υ	_	-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		Turn Direction	Altitude (FT)	'		Navigation Specification
001	IF	MANAH	_	_	-7.7	_	_	_	_	_	RNAV1
002	TF	KCC	_	162 (154.5)	-7.7	42.7	_	_	_	_	RNAV1



CHANGE: SUMVU established. HAKUI abolished. SID renamed. Waypoint Coordinates added. PROC course. VAR. Dist FM SUMVU to GINJO. ALT restriction at GINJO. Navigation Specification.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNK / KOMATSU

RNAV SID and TRANSITION

GINJO 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	SUMVU	_	_	-8.6	_	L	_	_	_	RNP1
003	TF	GINJO	_	014 (005.3)	-8.6	23.5	_	+4000	_	_	RNP1
004	TF	NTE	_	065 (056.0)	-8.6	15.0	_	_	_	_	RNP1

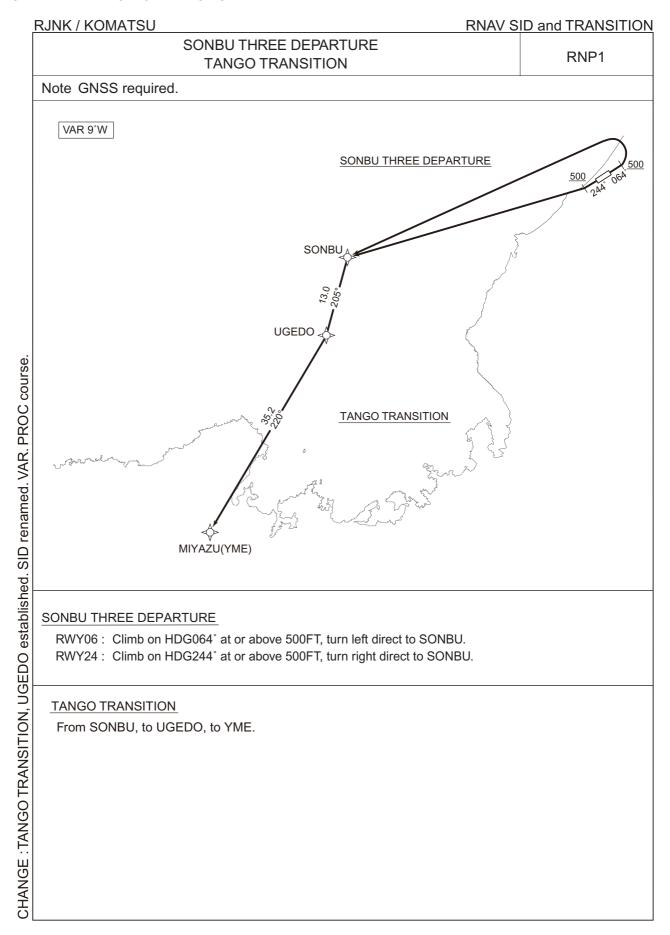
RWY24

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	SUMVU	_	-	-8.6	_	R	_	_	_	RNP1
003	TF	GINJO	_	014 (005.3)	-8.6	23.5	_	+4000	_	_	RNP1
004	TF	NTE	_	065 (056.0)	-8.6	15.0	_	_	_	_	RNP1

KINZAN TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier			Magnetic Variation		Turn Direction		' '		Navigation Specification
001	IF	NTE	_	_	-8.6	_	_	_	_	_	RNP1
002	TF	GOLDO	_	064 (055.4)	-8.6	83.0	_	_	_	_	RNP1

Waypoint Identifier	Coordinates
SUMVU	364539.8N / 1363927.2E
GINJO	370902.0N / 1364210.5E
NTE	371723.9N / 1365746.5E
GOLDO	380356.9N / 1382435.5E



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RNAV SID and TRANSITION

SONBU THREE DEPARTURE

RWY06

Serial Number	Path Descriptor	• •	Fly Over		Magnetic Variation		Turn Direction		'		Navigation Specification
001	VA	_	_	064 (055.0)	-8.6	_	_	+500	_	_	RNP1
002	DF	SONBU	_	_	-8.6	_	L	_	_	_	RNP1

RWY24

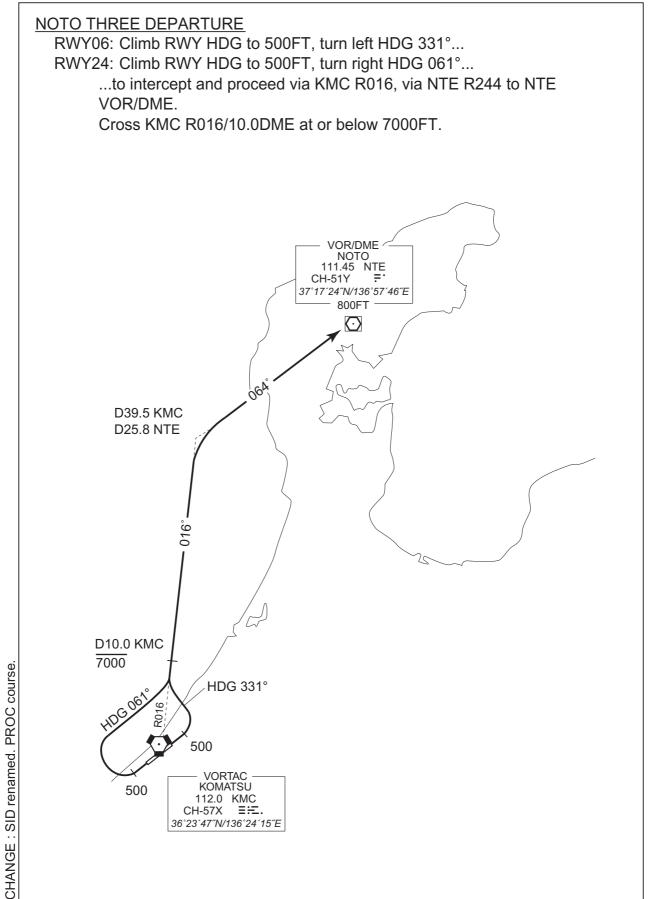
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)		Navigation Specification
001	VA	_	_	244 (235.0)	-8.6	_	_	+500	_	_	RNP1
002	DF	SONBU	_	-	-8.6	_	R	_	_	_	RNP1

TANGO TRANSITION

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	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 Identifier	Coordinates
SONBU	361132.3N / 1353502.9E
UGEDO	355902.0N / 1353032.1E
YME	352850.5N / 1350813.3E

RJNK / KOMATSU SID



Civil Aviation Bureau, Japan (EFF:23 JAN 2025)

500

112.0 KMC H-57X **Ξ∺**.. CH-57X 36°23′47″N/136°24′15″E

RJNK / KOMATSU

SID

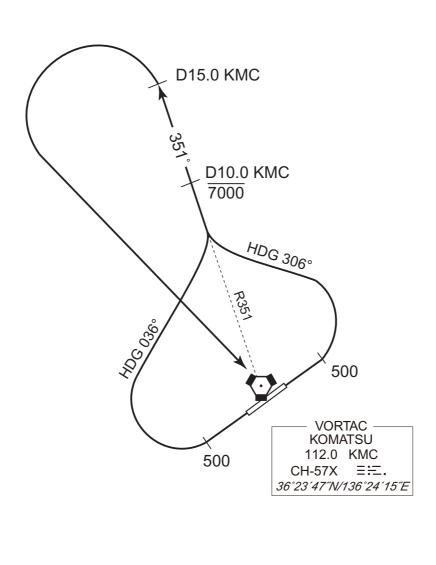
KOMATSU REVERSAL FOUR DEPARTURE

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.



RJNK / KOMATSU

SID and TRANSITION

KAGA FIVE DEPARTURE

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

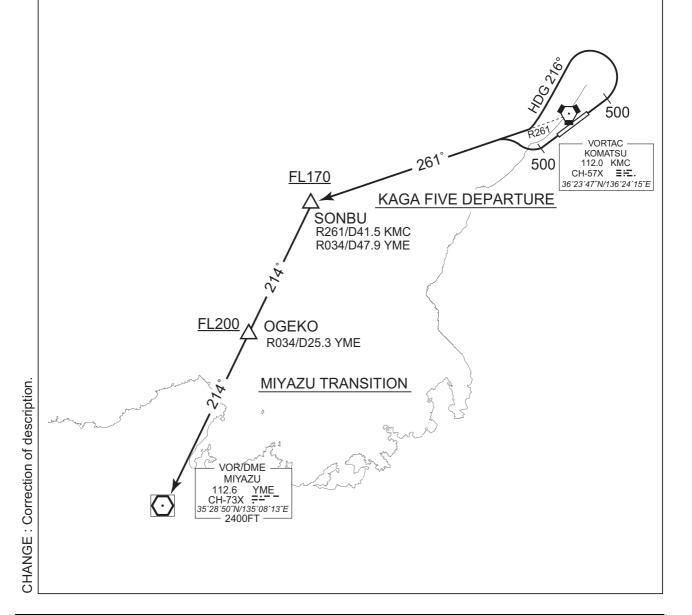
RWY 24: Climb RWY HDG to 500FT, turn right,...

...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.

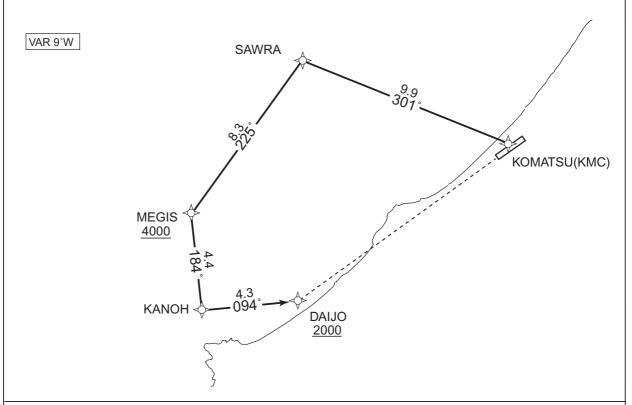




RJNK / KOMATSU RNAV STAR RWY06

KOMATSU WEST ARRIVAL RNP1

Note GNSS required.



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		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 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

RJNK / KOMATSU HIMMY WEST ARRIVAL RNP1 Note GNSS required. WAR 9'W MEGIS 4000 184* /4.4 KANOH DAIJO 2000 094* /4.3

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	ı	+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 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

RJNK / KOMATSU

IMIZU WEST ARRIVAL

RNP1

Note GNSS required.

VAR 9'W

RNAV STAR RWY06

RNP1

RNP1

BOBEG

9,7
293

IMIZU

MEGIS
4000

184°/4.4

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	_	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

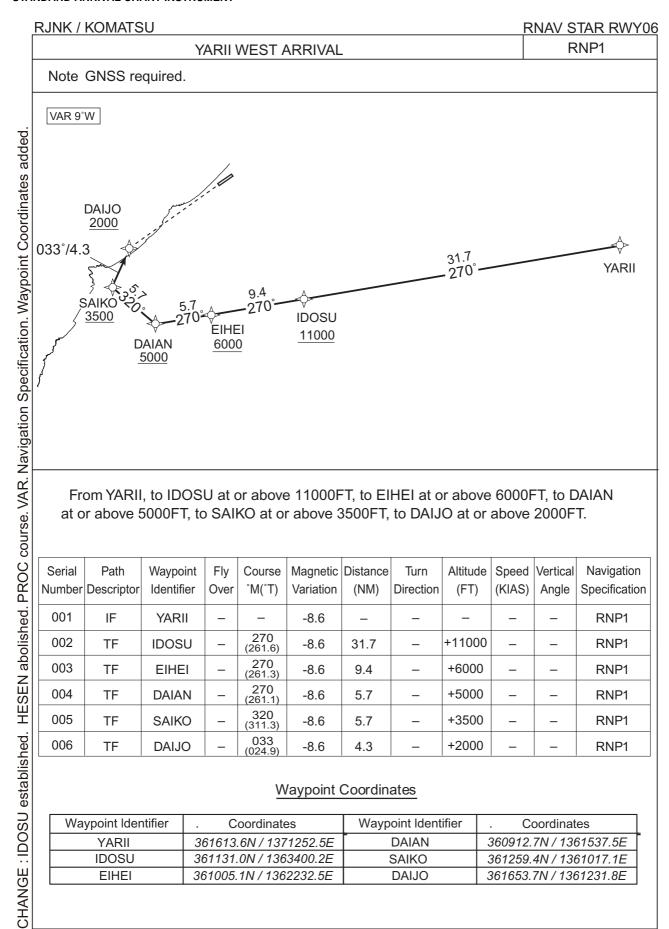
Waypoint Coordinates

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

KANOH

DAIJO 2000

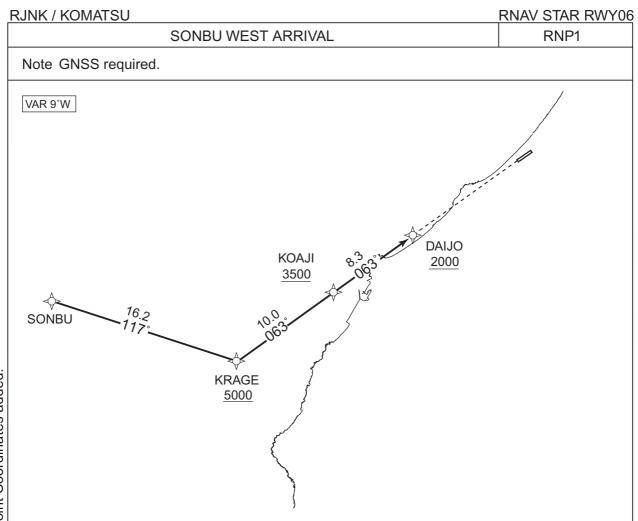
094°/4.3



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		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	1	_	RNP1
003	TF	EIHEI	_	270 (261.3)	-8.6	9.4	_	+6000	1	_	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 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



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

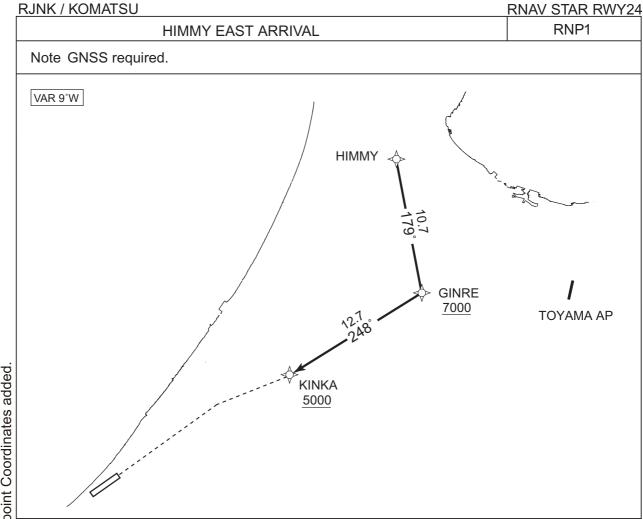
CHANGE: IKIKI, NOKAB established. ZEBRA, HIMRO abolished. PROC course. VAR. Navigation Specification. Waypoint Coordinates added

RJNK / KOMATSU **RNAV STAR RWY24** RNP1 KOMATSU EAST ARRIVAL Note GNSS required. VAR 9°W NOKAB **IKIKI** 5.0 084° 4000 2600 YAMJI KOMATSU(KMC)

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)		
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

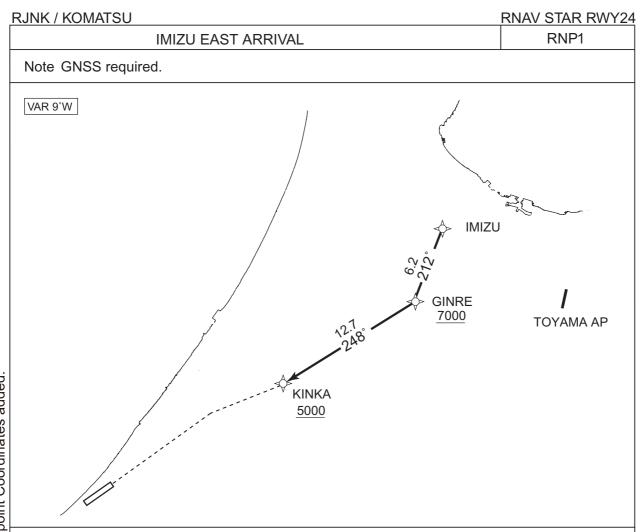
Waypoint Identifier	Coordinates						
KMC	362347.3N / 1362415.3E						
YAMJI	363316.8N / 1362242.5E						
IKIKI	363438.8N / 1362801.2E						
NOKAB	363553.0N / 1363402.3E						



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		Turn Direction	Altitude (FT)	Speed (KIAS)		
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	1	+5000	_	_	RNP1

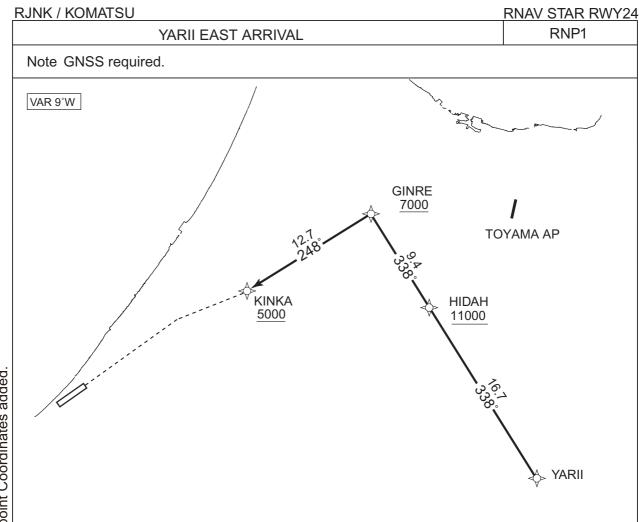
Waypoint Identifier	Coordinates
HIMMY	364916.0N / 1365406.9E
GINRE	363841.4N / 1365621.2E
KINKA	363210.7N / 1364250.6E



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		Turn Direction	Altitude (FT)	Speed (KIAS)		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

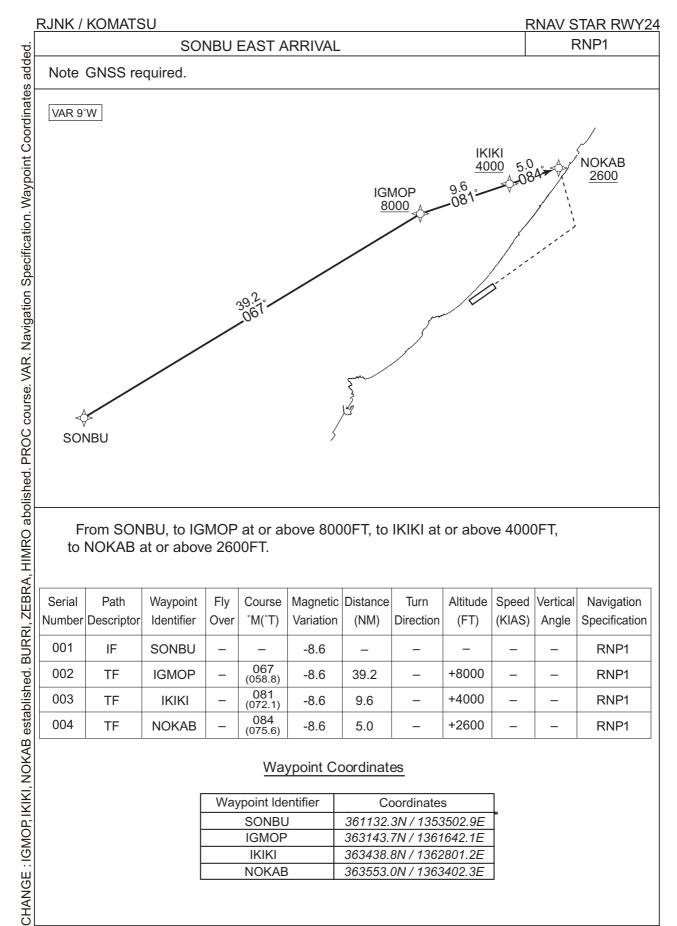
Waypoint Identifier	Coordinates
IMIZU	364422.4N / 1365925.6E
GINRE	363841.4N / 1365621.2E
KINKA	363210.7N / 1364250.6E



From YARII, to HIDAH at or above 11000FT, 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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YARII	_	_	-8.6	_	_	_	_	_	RNP1
002	TF	HIDAH	_	338 (329.5)	-8.6	16.7	_	+11000	_	_	RNP1
003	TF	GINRE	_	338 (329.4)	-8.6	9.4	-	+7000	-	_	RNP1
004	TF	KINKA	_	248 (239.1)	-8.6	12.7	_	+5000	_	_	RNP1

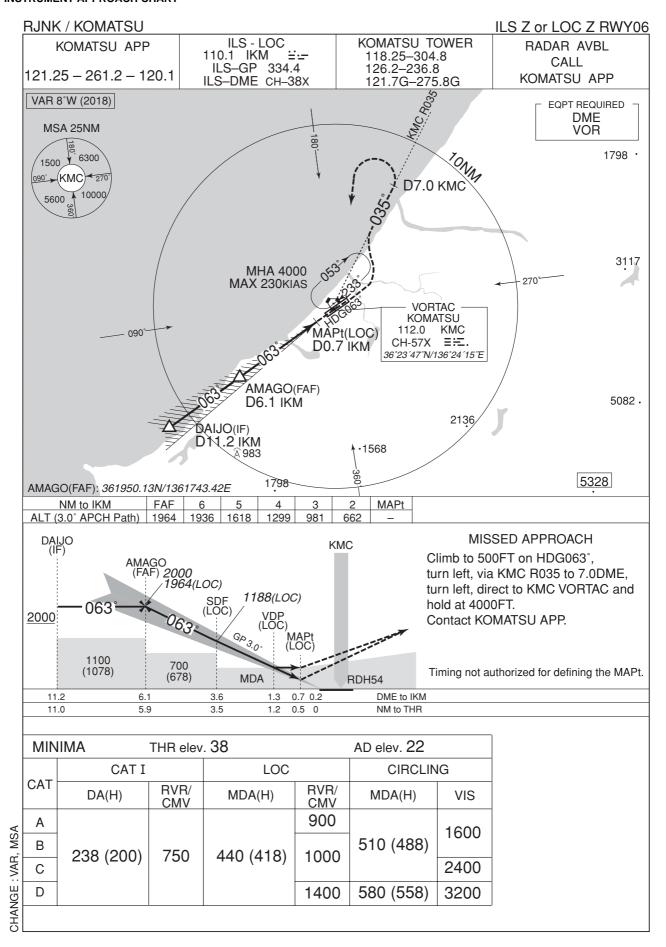
Waypoint Identifier	Coordinates
YARII	361613.6N / 1371252.5E
HIDAH	363035.8N / 1370219.6E
GINRE	363841.4N / 1365621.2E
KINKA	363210.7N / 1364250.6E

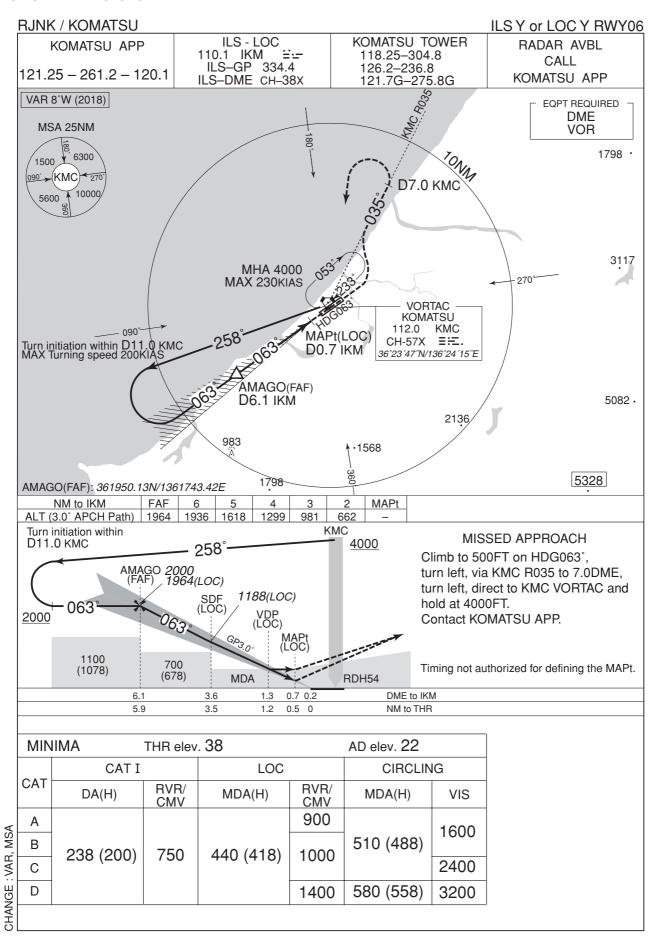


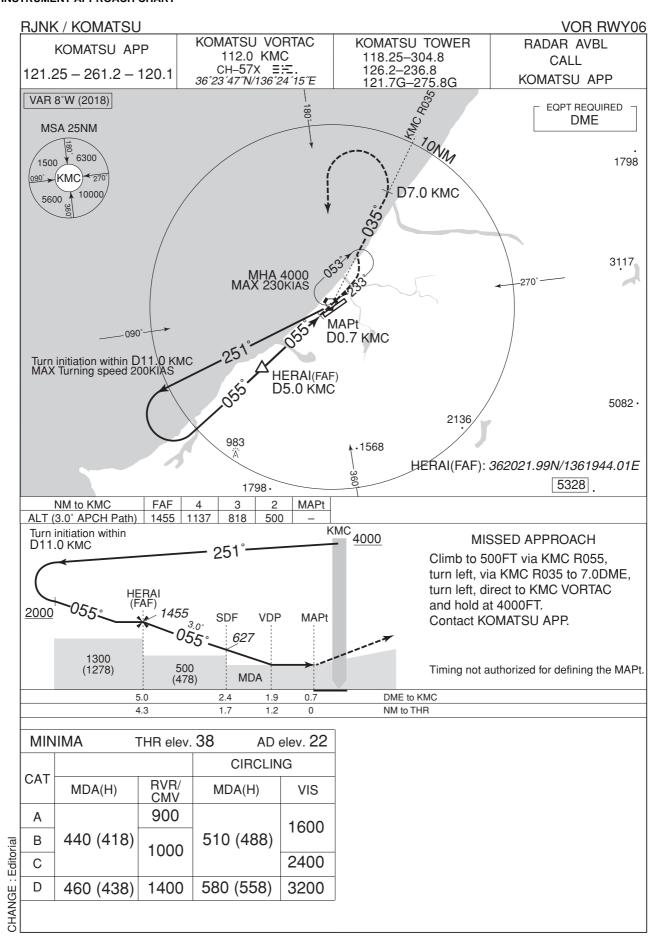
From SONBU, to IGMOP at or above 8000FT, to IKIKI at or above 4000FT, to NOKAB at or above 2600FT.

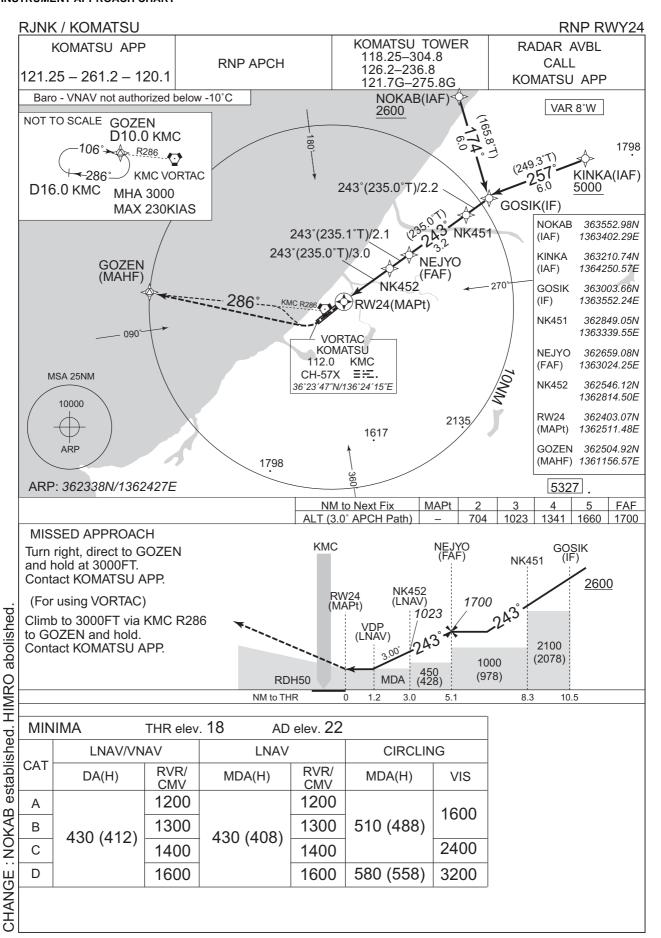
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SONBU	_	_	-8.6	_	_	_	_	_	RNP1
002	TF	IGMOP	_	067 (058.8)	-8.6	39.2	_	+8000	_	_	RNP1
003	TF	IKIKI	_	081 (072.1)	-8.6	9.6	_	+4000	_	_	RNP1
004	TF	NOKAB	_	084 (075.6)	-8.6	5.0	_	+2600	_	_	RNP1

Waypoint Identifier	Coordinates
SONBU	361132.3N / 1353502.9E
IGMOP	363143.7N / 1361642.1E
1011101	000140.7117 1001042.12
IKIKI	363438.8N / 1362801.2E
NOKAB	363553.0N / 1363402.3E

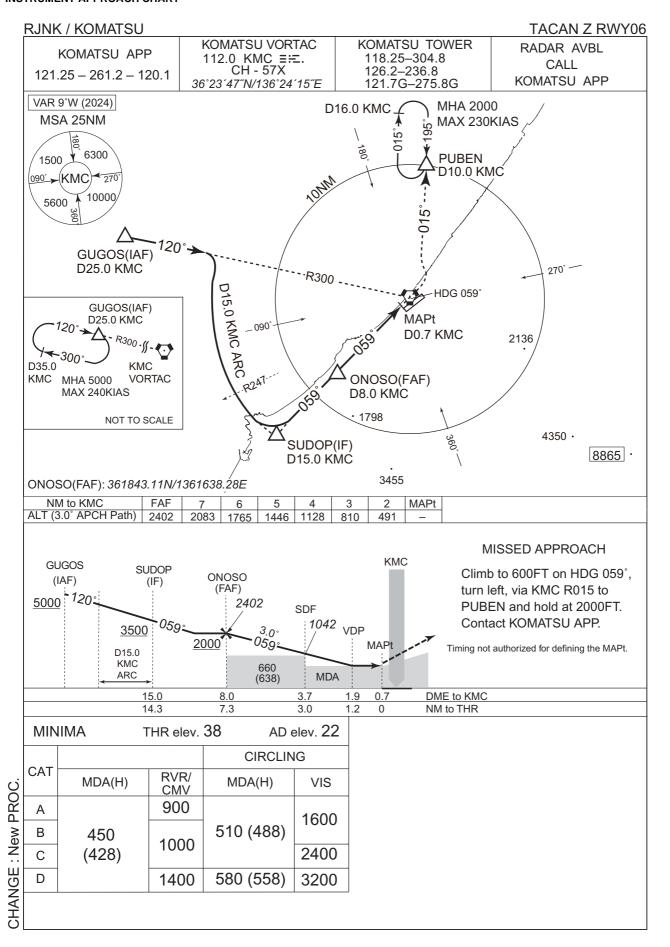


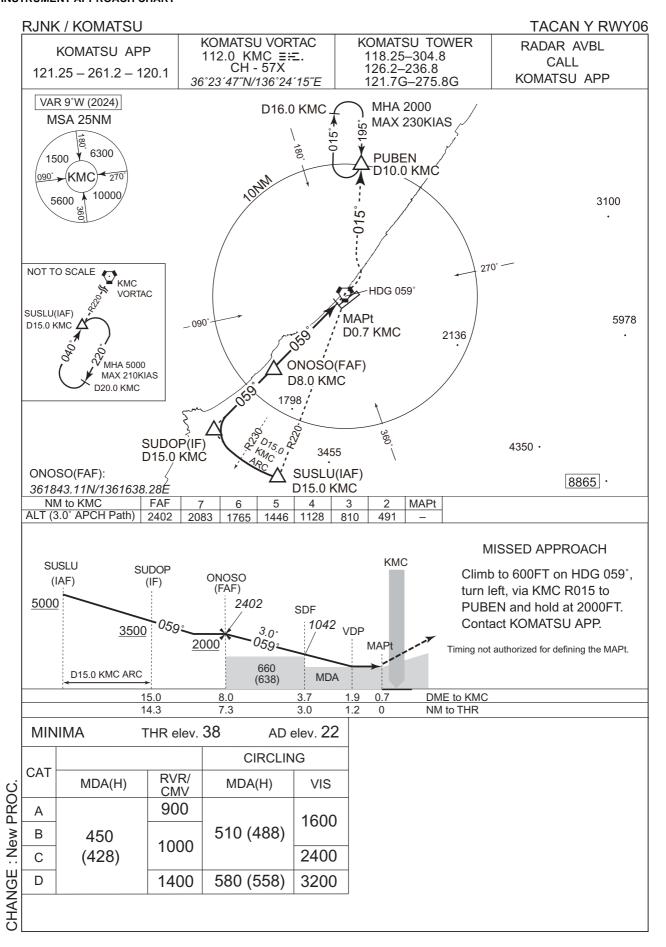


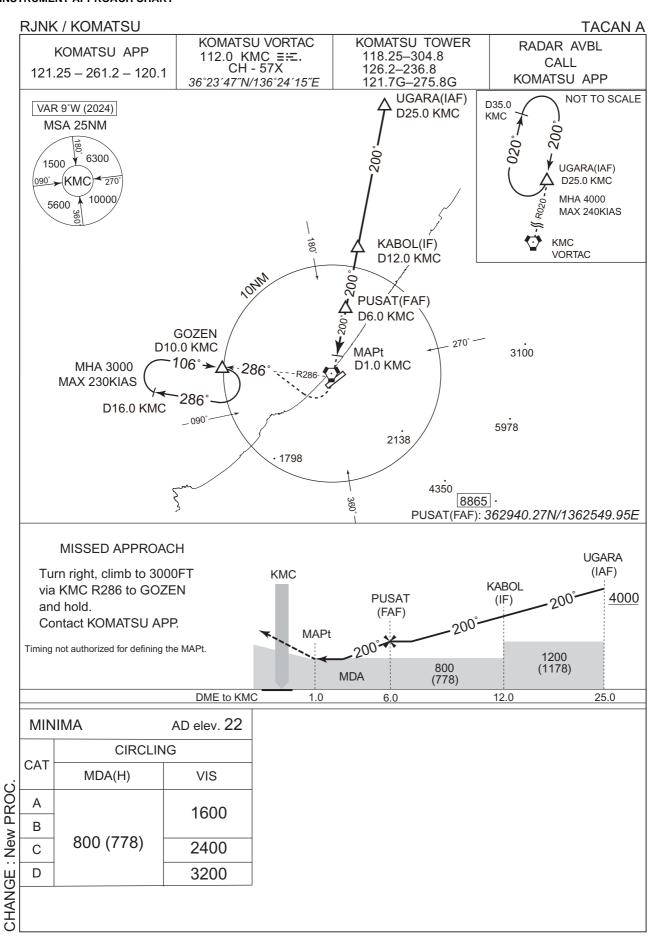


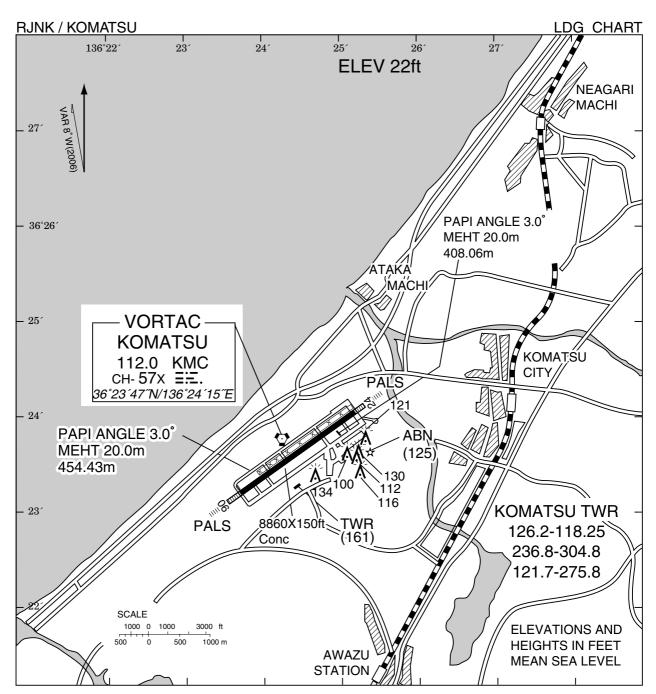












注: 小松飛行場の本滑走路の供用開始に伴い、着陸する航空機は、運用を廃止した仮設滑走路に誤認着陸しないように注意すること。

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 aircrft, 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.] .

