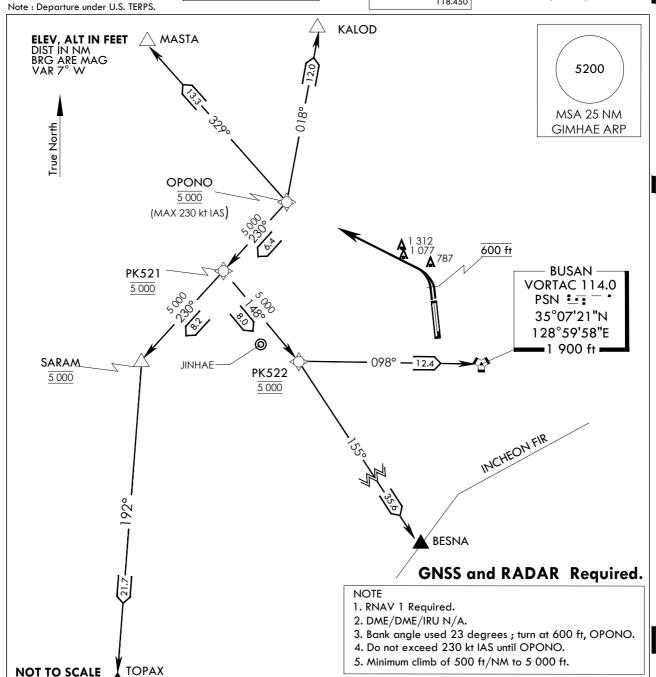
TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK) RWY 36L/R RNAV(GNSS) OPONO 2



DEPARTURE PROCEDURE DESCRIPTION

OPONO 2 DEPARTURE

RWY 36L/R: Climb HDG 001° to 600 ft then direct to cross OPONO at 5 000 ft, thence...... via (TRANSITIONS routes) and climb assigned altitude by ATC.

KALOD transition : From OPONO on track 018° to KALOD. **MASTA transition** : From OPONO on track 329° to MASTA.

TOPAX transition : From OPONO on track 230° to cross PK521 at 5 000 ft, then track 230° to cross

SARAM at 5 000 ft, then track 192° to TOPAX.

BESNA transition : From OPONO on track 230° to cross PK521 at 5 000 ft, then on track 148°

to cross PK522 at 5 000 ft, then on track 155° to BESNA.

BUSAN (PSN) transition: From OPONO on track 230° to cross PK521 at 5 000 ft, then track 148° to

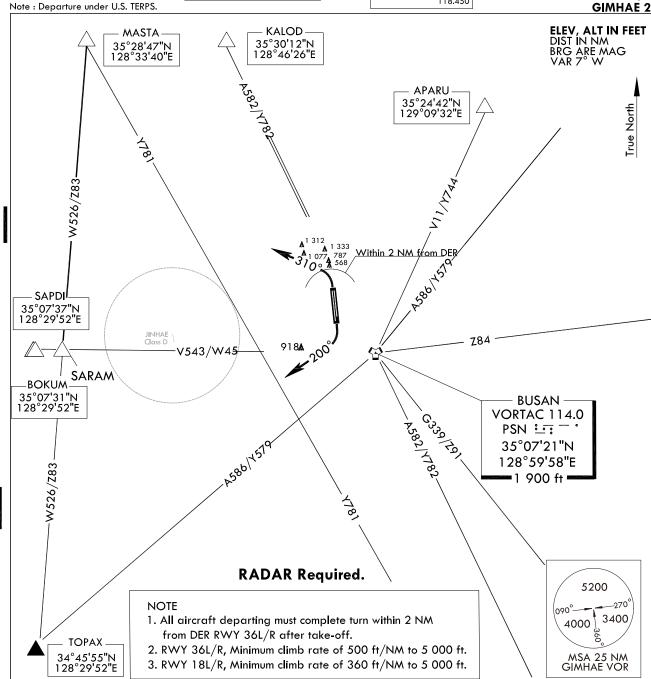
cross PK522 at 5 000 ft, then track 098° to BUSAN(PSN).

BUSAN/Gimhae INTL(RKPK) RWY 36L/R RNAV(GNSS) BETTA 2

AERONAUTICAL DATA TABULATION

Remarks	DER	CG 500 ft/NM to 5 000 ft	-		Remarks	DER	CG 500 ft/NM to 5 000 ft	1		Remarks		1	PSN VORTAC	Remarks	1	1	1		Remarks	1	•	1		Remarks	1		Remarks
uo d	5				no								PS	u .	5				no					no no			
Navigation	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1	Navigation	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1		Navigation
VPA/	<u>-</u>				VPA/ TCH			ı		VPA/ TCH		ı		VPA/	5 .				VPA/ TCH	ı		ı		VPA/ TCH	ı		VPA/
Coordinates	35°11'38.60"N 128°56'14.73"E		35°18'24.2"N 128°43'46.2"E		Coordinates	35°11'37.94"N 128°56'06.46"E	•	35°18'24.2"N 128°43'46.2"E		Coordinates	35°13'42.0"N 128°38'32.2"E	35°07'30.3"N 128°44'48.6"E	35°07'21.5"N 128°59'58.5"E	Coordinates	35°13'42.0"N 128°38'32.2"E	35°07'30.3"N 128°44'48.6"E	34°37'18.0"N 129°07'51.0"E		Coordinates	35°13'42.0"N 128°38'32.2"E	35°07'36.3"N 128°31'46.7"E	34°45'55.3"N 128°29'51.7"E		Coordinates	35°28'47.0"N 128°33'40.0"E		Coordinates
Speed (kt)	-	-230	-230		Speed (kt)	1	-230	-230		Speed (kt)	ı	ī	1	Speed	(k) -		-		Speed (kt)		i	1		Speed (kt)	ı		Speed (kt)
Altitude (ft)	-	@600	@2 000		Altitude (ft)		@000	@2 000		Altitude (ft)	@2 000	@2 000	+5 000	Altitude	@5 000	@2 000	+5 000		Altitude (ft)	@5 000	@2 000	+5 000		Altitude (ft)	+5 000		Altitude (ft)
Turn		1	-		Turn direction					Turn				Turn	-		-		Turn direction					Turn direction	1		Turn
Distance (NM)	-	1	1		Distance (NM)					Distance (NM)	6.36	8.04	12.44	Distance	6.36	8.04	35.62		Distance (NM)	6.36	8.23	21.71		Distance (NM)	13.25		Distance (NM)
Course/Track °M(°T)		001.42(353.95)			Course/Track Distance °M(°T) (NM)		001.42(353.95)		RNAV OPONO 2 - BUSAN(PSN VORTAC) Transition	Course/Track M(°T)	229.87(222.40)	147.69(140.22)	098.07(090.60)	Course/Track		147.69(140.22)	155.20(147.73)		Course/Track 1 °M(°T)	229.87(222.40)	229.82(222.35)	191.64(184.17)		Course/Track °M(°T)	328.96(321.49)		Course/Track Distance
Fly-	,				Fly- over		ı		VORT,	Fly- over			1	Hion Fly-	5 '		1	iiion	Fly- over	,	ı		sition	Fly- over	ı	ition	Fly-
Waypoint Identifier	RWY 18L	1	OPONO	/Y 36L	Waypoint Identifier	RWY 18R		OPONO	ISAN(PSN	Waypoint Identifier	PK521	PK522	PSN	SNA Transition Waypoint Fly-	PK521	PK522	BESNA)PAX Trans	Waypoint Identifier	PK521	SARAM	TOPAX	ASTA Tran	Waypoint Identifier	MASTA	LOD Trans	Waypoint Fly-
Serial Path Waypoint Number Descriptor Identifier	-	×	DF	Departure Route - RWY 36L	Path Waypoint Descriptor Identifier	1	۸×	DF	ONO 2 - BL	Path Waypoint Fly- Descriptor Identifier over	Ħ	¥	Ŧ	RNAV OPONO 2 - BESNA Transition Serial Path Waypoint Fly	1	£	TF	RNAV OPONO 2 - TOPAX Transition	Path Waypoint Fly- Descriptor Identifier over	Ħ	Ħ	£	RNAV OPONO 2 - MASTA Transition	Path Waypoint Fly- Descriptor Identifier over	£	RNAV OPONO 2 - KALOD Transition	Path
Serial Number	- 1	002	003	Separture	Serial Number	100	002	003	NAV OPC	Serial Number	100	002	003	Serial		002	003	NAV OPC	Serial Number	100	002	003	NAV OP	Serial Number	100	NAV OPC	Serial

TRANSITION ALT 14 000 TRANSITION LVL FL 140 GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK) RWY 36L/R RWY 18L/R GIMHAE 2



DEPARTURE ROUTE DESCRIPTION

GIMHAE 2 DEPARTURE

RWY 36L/R : Climb left turn HDG 310°, Thence..... RWY 18L/R : Climb right turn HDG 200°, Thence.....

......Expect radar vectors to intercept filed Enroute fix or Navaid.

Maintain 5 000 ft or assigned altitude (flight level).

Expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: If radio contact is not established with departure control prior to reaching 5 000 ft, Continue climb to 8 000 ft before turning to filed fix/Navaid and proceed filed route and altitude.

LEFT

BUSAN/Gimhae Intl(RKPK) STANDARD DEPARTURE GIMHAE DEP 125.5 TRANSITION ALT 14 000 TRANSITION LVL FL 140 RWY 36L/R 363.8 **CHART - INSTRUMENT(SID)** GIMHAE TWR 118.1 BEVSI 3 118.450 Note: Departure under U.S. TERPS. MASTA — KALOD — 35°30'12"N 128°46'26"E ELEV, ALT IN FEET DIST IN NM BRG ARE MAG VAR 7° W 35°28'47"N 128°33'40"E R 320 KMH/D24.9 R 341 PSN/D25.3 **VOR/DME Required** North ى_كى. GIMHAE-VOR/DME 113.8 KMH **=:**---4440 35°11'57"N 128°56'08"E <u>5 000</u> BEVSI • 0 ft • 35°18'24"N 128°43'46"E 3100 R 310 KMH/D12 1 333 D12 **^**1 077**)** 787 Within 2 NM from DER KWH **BUSAN** -VORTAC 114.0 PSN <u>□</u>: 35°07'21"N V543/W45 128°59'58"E - 278° ■1 900 ft SARAM 35°07'36"N 128°31'47"E R 278 PSN/D23.1 NOTE 5200 1. All aircraft departing must complete turn within 2 NM from DER after take-off. 2. Minimum climb of 500 ft/NM to 5 000 ft. 3400 4000

DEPARTURE ROUTE DESCRIPTION

BEVSI 3 DEPARTURE

__ TOPAX __ 34°45'55"N 128°29'52"E

R 192 TGU/D62.7

RUNWAY 36L/R: Climbing left turn HDG 280° to intercept R 310 KMH

and R 310 KMH to cross BEVSI at or above 5 000 ft. thence......

......via (TRANSITIONS), climb assigned altitude or as directed by ATC.

KALOD Transition: Right turn and proceed via KMH D12 arc to R 341 PSN,

then via R 341 PSN to KALOD.

BUSAN(PSN) Transition: Right turn and proceed via KMH D12 arc to R 341 PSN,

then via R 341 PSN to PSN.

MASTA Transition: Right turn HDG 350° to R 320 KMH, then via R 320 KMH to MASTA.

TOPAX Transition: Left turn and proceed via KMH D12 arc to R 278 PSN,

then via R 278 PSN to SARAM, then left turn via R 192 TGU to TOPAX.

MSA 25 NM GIMHAE VOR

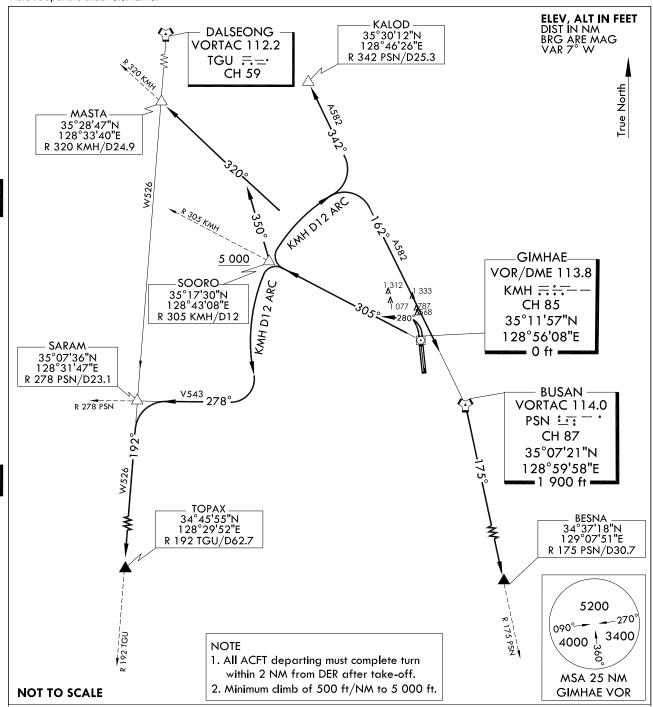
NOT TO SCALE

LEFT

TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK) RWY 36L/R SOORO 1

Note : Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

SOORO 1 DEPARTURE

RUNWAY 36L/R : Climbing left turn as soon as practicable HDG 280° to intercept R 305 KMH and R 305 KMH to cross SOORO at or above 5 000 ft. thence......

.....via (TRANSITIONS), climb assigned altitude or as directed by ATC.

KALOD Transition: Right turn and proceed via KMH 12 DME arc to R 342 PSN,

then via R 342 PSN to KALOD.

BUSAN(PSN) Transition: Right turn and proceed via KMH 12 DME arc to R 342 PSN,

then via R 342 PSN to PSN.

MASTA Transition: Right turn HDG 350° to R 320 KMH, then R 320 KMH to MASTA. **TOPAX Transition**: Left turn and proceed via KMH 12 DME arc to R 278 PSN,

then via R 278 PSN to SARAM, then left turn via R 192 TGU to TOPAX.

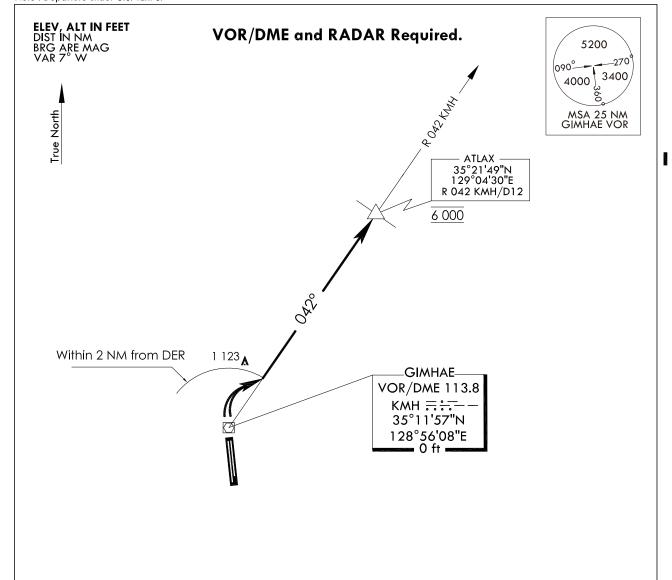
BESNA Transition: Right turn and proceed via KMH 12 DME arc to R 342 PSN,

then via R 342 PSN to PSN, then via R 175 PSN to BESNA.

LEFT

TRANSITION ALT 14 000 TRANSITION LVL FL 140 GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK)
RWY 36L/R
ATLAX 2

Note: Departure under U.S. TERPS.



NOTE

- 1. All aircraft departing must complete turn within 2 NM from DER after take-off.
- 2. Do not exceed 240 kt IAS below 6 000 ft.
- 3. Minimum climb of 500 ft/NM to 6000 ft.

NOT TO SCALE

DEPARTURE PROCEDURE DESCRIPTION

ATLAX 2 DEPARTURE

RUNWAY 36L/R: Climbing right turn to intercept R 042 KMH and climb to 6 000 ft on R 042 KMH to ATLAX, then expect RADAR vector to assigned route and fix.

LEFT

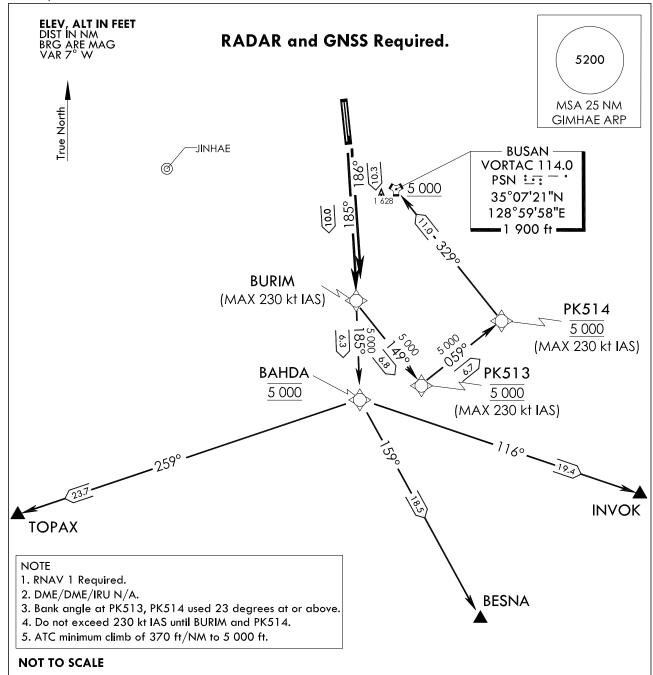
BLANK

AIRAC AIP AMDT 11/18 Effective: 1600UTC 5 DEC 2018

TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE DEP 125.5 363.8 118.1 GIMHAE TWR 118.450 BUSAN/Gimhae Intl(RKPK) **RWY 18L/R** RNAV(GNSS) BURIM 2

Note: Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

BURIM 2 DEPARTURE

RUNWAY 18R: Climb on course 185° to BURIM, thence........

RUNWAY 18L: Climb on course 186° to BURIM, thence.........

...... via (TRANSITIONS routes) and climb assigned altitude by ATC.

TOPAX transition: From BURIM on track 185° to cross BAHDA at 5 000 ft, then track 259° to TOPAX.

BESNA transition: From BURIM on track 185° to cross BAHDA at 5 000 ft, then track 159° to BESNA.

INVOK transition: From BURIM on track 185° to cross BAHDA at 5 000 ft, then track 116° to INVOK.

BUSAN (PSN) transition: From BURIM on track 149° to cross PK513 at 5 000 ft,

then track 059° to cross PK514 at 5 000 ft, then track 329° to cross BUSAN(PSN) at or above 5 000 ft.

BUSAN/Gimhae INTL(RKPK) RWY 18L/R RNAV(GNSS) BURIM 2

AERONAUTICAL DATA TABULATION

Serial Number	Path Descriptor	Path Waypoint Descriptor Identifier	Fly- over	Course/T °M(°T	rack Distance) (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100		RWY 36R		1	ı	1	1	1	35°10'10.10"N 128°56'26.14"E	ı	RNAV 1	DER
002	P	BURIM		185.79(178.33)	10.29	1		-230	34°59'52.3"N 128°56'48.1"E	1	RNAV 1	CG 370 ft/NM to 5 000 ft
eparture	Departure Route - RWY 18R	VY 18R										
Serial Number	Path Descriptor	Waypoint Identifier	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100		RWY 36L	1	1	ı		1	1	35°09'54.69"N 128°56'19.79"E	,	RNAV 1	DER
002	ъ	BURIM	1	185.25(177.79)	10.03		ı	-230	34°59'52.3"N 128°56'48.1"E	ı	RNAV 1	CG 370 ft/NM to 5 000 ft
VAV BUR	IIM 2 - TO	RNAV BURIM 2 - TOPAX Transition	<u>io</u>									
Serial Number	Path Descriptor	Path Waypoint Fly- Descriptor Identifier over	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100	ŦF	ВАНБА		185.24(177.77)	6.27	1	@2 000	1	34°53'34.4"N 128°57'05.8"E	•	RNAV 1	CG 370 ft/NM to 5 000 ft
002	⊭	TOPAX		258.78(251.31)	23.69	1	+5 000		34°45'55.3"N 128°29'51.7"E	1	RNAV 1	ı
NAV BUF	RIM 2 - BE	RNAV BURIM 2 - BESNA Transition	lo									
Serial	Path Descriptor	Serial Path Waypoint Fly- Number Descriptor Identifier over	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100	Ľ.	BAHDA		185.24(177.77)	6.27		@2 000	ı	34°53'34.4"N 128°57'05.8"E		RNAV 1	CG 370 ft/NM to 5 000 ft
002	Ŧ	BESNA	1	158.81(151.34)	18.51		+5 000	1	34°37'18.0"N 129°07'51.0"E	,	RNAV 1	1
NAV BUF	ZIM 2 - INV	RNAV BURIM 2 - INVOK Transition	<u>.o</u>									
Serial Number	Path Descriptor	Path Waypoint Fly- Descriptor Identifier over	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100	Ŧ	BAHDA		185.24(177.77)	6.27		@2 000	ı	34°53'34.4"N 128°57'05.8"E	ı	RNAV 1	CG 370 ft/NM to 5 000 ft
002	TF	INVOK	ı	116.21(108.75)	19.38	-	+5 000	ı	34°47'19.0"N 129°19'23.0"E		RNAV 1	ï
JAV BUR	IIM 2 - PSN	RNAV BURIM 2 - PSN(VORTAC) Transition	Transi	tion								
Serial Number	Path Descriptor	Path Waypoint Fly- Descriptor Identifier over	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
100	ŦF	PK513		148.71(141.24)	6.83	•	@2 000	-230	34°54'32.3"N 129°01'59.8"E		RNAV 1	CG 370 ft/NM to 5 000 ft
002	⊭	PK514		058.76(051.29)	6.71	1	@2 000	-230	34°58'44.3"N 129°08'22.2"E	1	RNAV 1	,
003	1	;										

Change: Page control.

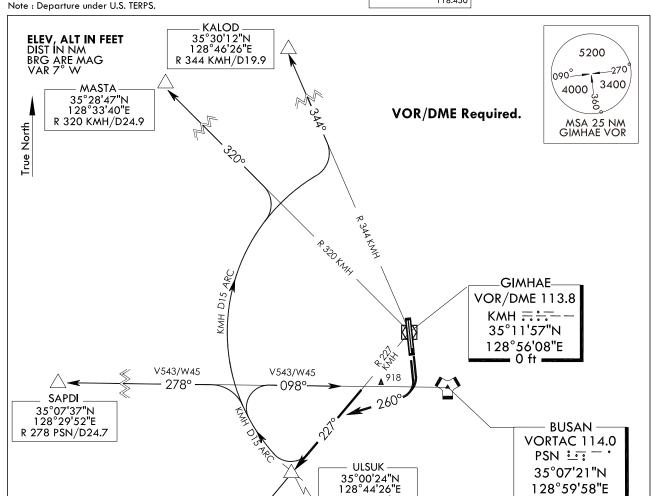
TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK) RWY 18L/R ULSUK 3

■1 900 ft •

NOT TO SCALE

1. ATC minimum climb of 360 ft/NM to 4 000 ft.



DEPARTURE PROCEDURE DESCRIPTION

4 000

R 227 KMH/D15

NOTE

ULSUK 3 DEPARTURE

— TOPAX — 34°45'55"N 128°29'52"E

R 227 KMH/D33.8

RUNWAY 18L/R: Climbing right turn HDG 260° to intercept R 227 KMH and climbing 4 000 ft on R 227 KMH to ULSUK, thence......

.....via (TRANSITION), climb assigned altitude or as directed by ATC.

KALOD transition: Right turn and proceed via KMH 15DME arc to R 344 KMH,

then via R 344 KMH to KALOD.

MASTA transition: Right turn and proceed via KMH 15DME arc to R 320 KMH,

then via R 320 KMH to MASTA.

SAPDI transition: Right turn and proceed via KMH 15DME arc to R 278 PSN, then via

R 278 PSN to SAPDI.

BUSAN (PSN) transition: Right turn and proceed via KMH 15DME arc to R 278 PSN, then via

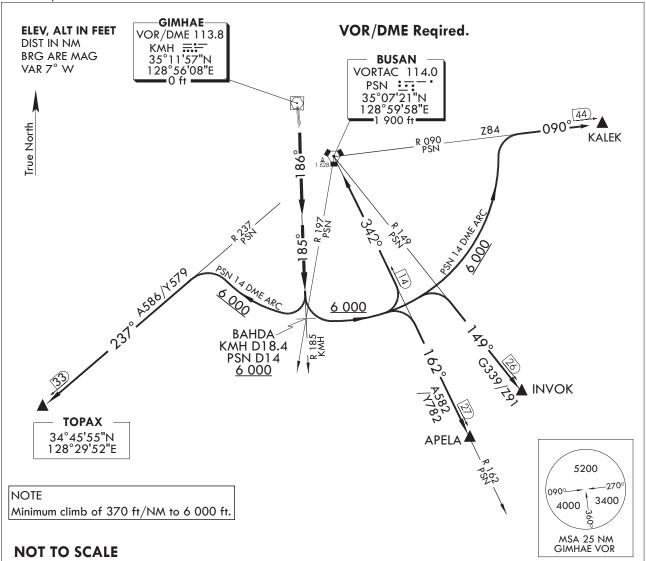
R 278 PSN to BUSAN (PSN).

TOPAX transition: R 227 KMH to TOPAX.

LEFT

TRANSITION ALT 14 000 TRANSITION LVL FL 140 GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 233.3 118.450 236.6 BUSAN/Gimhae INTL(RKPK) RWY 18L/R BAHDA 1

Note: Departure under U.S TERPS.



DEPARTURE ROUTE DESCRIPTION

BAHDA 1 DEPARTURE

RUNWAY 18L/R: Climb 6 000 ft via HDG 186° to intercept R 185 KMH to cross BAHDA at or above 6 000 ft, then via(TRANSITION routes) and climb assigned altitude by ATC.

KALEK transition: Left turn and proceed via the PSN D14 ARC to intercept R 090 PSN then R 090 PSN to KALEK.

INVOK transition: Left turn and proceed via the PSN D14 ARC to intercept R 149 PSN then R 149 PSN to INVOK.

APELA transition: Left turn and proceed via the PSN D14 ARC to intercept R 162 PSN then R 162 PSN to APELA.

BUSAN(VORTAC) transition: Left turn and proceed via the PSN D14 ARC to intercept R 162 PSN then R 162 PSN to BUSAN VORTAC(PSN).

TOPAX transition: Right turn and proceed via the PSN D14 ARC to intercept R 237 PSN then R 237 PSN to TOPAX.

Change: Page control.

AIRAC AIP AMDT 11/18 Effective : 1600UTC 5 DEC 2018 A I P Republic of Korea RKPK AD CHART 2 - 21 - 1 25 OCT 2018

INTENTIONALLY

LEFT