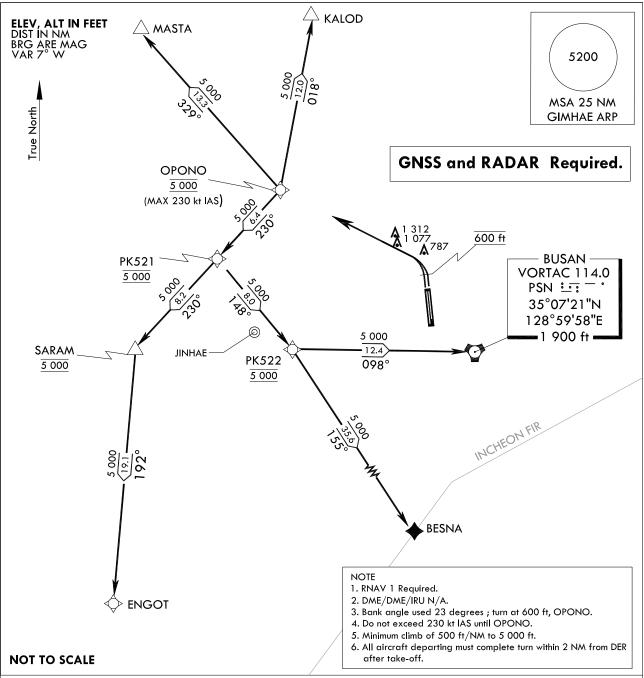
TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE DEP 125.5 363.8 GIMHAE TWR 118.1 118.450 BUSAN/Gimhae Intl(RKPK) RWY 36L/R RNAV(GNSS) OPONO 3

Note: Departure under U.S. TERPS.



### **DEPARTURE PROCEDURE DESCRIPTION**

### **OPONO 3 DEPARTURE**

TAKE-OFF 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.

<u>KALOD transition</u> : From OPONO on track 018° to KALOD. MASTA transition : From OPONO on track 329° to MASTA.

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

then on track 230° to cross SARAM at 5 000 ft, then on track 192° to ENGOT.

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

then on track  $148^{\circ}$  to cross PK522 at 5 000 ft, then on track  $155^{\circ}$  to BESNA.

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

then on track  $148^{\circ}$  to cross PK522 at 5 000 ft, then on track  $098^{\circ}$  to BUSAN(PSN).

### BUSAN/Gimhae INTL(RKPK) RWY 36L/R I RNAV(GNSS) OPONO 3

## **AERONAUTICAL DATA TABULATION**

ion		75.500#/	· · · · · · · · · · · · · · · · · · ·		tion Remarks	1 DER	1 CG 500 ft/NM to 5 000 ft	-		rion Remarks	•	,	1 PSN VORTAC		rion Remarks	-	,	-		rion Remarks	•	-	-		rion Remarks			: :
Navigation	specificat	NANG	RNAV		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1	RNAV 1	RNAV 1		Navigation specification	RNAV 1		New Paris
VPA/	된 .		-		VPA TCH					VPA/ TCH		ı			VPA/ TCH					VPA/ TCH					VPA/ TCH			/ VDV
o to income	25°11'38 60"N 138°56'11'35		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°48'34.48"N 128°29'51.68"E		Coordinates	35°28'47.0"N 128°33'40.0"E		
Speed	(kt)	-230	-230	_	Speed (kt)		-230	-230		Speed (kt)		1	1		Speed (kt)		1	1		Speed (kt)	1	ı			Speed (kt)	1		
Altitude	Œ ·	009@	@\$ 000		Altitude (ft)		009@	@2 000		Altitude (ft)	@2 000	@2 000	+5 000		Altitude (ft)	@2 000	@2 000	+5 000		Altitude (ft)	@2 000	@2 000	+5 000		Altitude (ft)	+5 000		4 150
Turn	direction				Turn direction	ı		1		Turn		,	1		Turn		,			Turn	,				Turn	,		-
Distance	(WZ)	1			Distance (NM)	ı	1	1		Distance (NM)	6.36	8.04	12.44		Distance (NM)	6.36	8.04	35.62		Distance (NM)	6.36	8.23	19.06		Distance (NM)	13.25		
Course/Track	(T)W,	001.42(353.95)			Course/Track °M(°T)	1	001.42(353.95)		RNAV OPONO 3 - BUSAN(PSN VORTAC) Transition	$\overline{}$	229.87(222.40)	147.69(140.22)	098.07(090.60)		Course/Track °M(°T)	229.87(222.40)	147.69(140.22)	155.20(147.73)		Course/Track °M(°T)	229.87(222.40)	229.82(222.35)	192.21(184.75)		Course/Track M(°T)	328.96(321.49)		Track Track
+ Fly-	over				t Fly- over			1	VORT	r Fly- over			ı	sition	r Fly-				sition	r Fly- over		ı	-	sition	r Fly- over		sition	-
Waypoin	Identifier		OPONO	vY 36L	Waypoint Identifier	RWY 18R		OPONO	JSAN(PSN	Waypoint Identifier	PK521	PK522	PSN	SNA Trans	Waypoint Identifier	PK521	PK522	BESNA	IGOT Tran	Waypoint Identifier	PK521	SARAM	ENGOT	ASTA Tran	Waypoint Fly- Identifier over	MASTA	\LOD Tran	747
Path Waypoint	Descriptor	*	- H	Departure Route - RWY 36L	Path Waypoint Descriptor Identifier	ı	Α>	DF	JNO 3 - BU	Path Waypoint Fly- Descriptor Identifier over	Ħ	¥	Ħ	RNAV OPONO 3 - BESNA Transition	Path Descriptor	Ħ	1	TF	RNAV OPONO 3 - ENGOT Transition	Path Waypoint Fly- Descriptor Identifier over	Ŧ	Ħ	Ŧ	RNAV OPONO 3 - MASTA Transition	Path Descriptor	TF	RNAV OPONO 3 - KALOD Transition	-
Serial Path Wayp	Number	200	003	Separture	Serial Number	100	005	003	NAV OP	Serial Number	100	005	003	NAV OP	Serial Number	100	005	003	VAV OP	Serial Number	100	002	003	NAV OP	Serial Number	100	NAV OP	

Change : Information of procedure name(OPONO 2  $\rightarrow$  OPONO 3) and transition route(TOPAX  $\rightarrow$  ENGOT).

STANDARD DEPARTURE BUSAN/Gimhae Intl(RKPK) GIMHAE DEP 125.5 **CHART - INSTRUMENT(SID)** TRANSITION ALT 14 000 RWY 36L/R 363.8 TRANSITION LVL FL 140 GIMHAE TWR 118.1 **RWY 18L/R** 118.450 Note: Departure under U.S. TERPS. **GIMHAE 2** ELEV, ALT IN FEET DIST IN NM BRG ARE MAG VAR 7° W KALOD **MASTA** 35°30'12"N 128°46'26"E 35°28'47"N 128°33'40"E RADAR Required. **APARU** 35°24'42"N 129°09'32"E True North W526/Z83. A<sup>1 312</sup> 1 333 A 1 077 787 7 0 4 568 Within 2 NM f om DER SAPDI 35°07'37"N 128°29'52"E **Z84** V543/W45 918 SARAM RUNIT 35°07'34"N 128°29'52"E **BUSAN** -**VORTAC 114.0** PSN <u>:</u> -: -35°07'21"N 128°59'58"E 1 900 ft 5200 NOTE

#### **DEPARTURE ROUTE DESCRIPTION**

1. All aircraft departing must complete turn within 2 NM

2. RWY 36L/R, Minimum climb rate of 500 ft/NM to 5 000 ft.

3. RWY 18L/R, Minimum climb rate of 360 ft/NM to 5 000 ft.

from DER RWY 36L/R after take-off.

## **GIMHAE 2 DEPARTURE**

TOPAX -

34°45'55"N 128°29'52"E

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.

3400

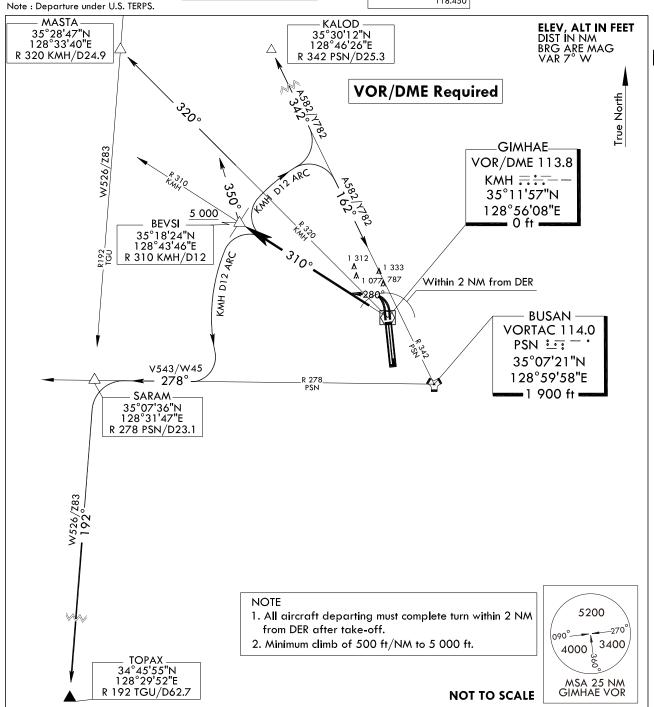
4000

MSA 25 NM GIMHAE VOR

**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 BEVSI 3



## **DEPARTURE ROUTE DESCRIPTION**

#### **BEVSI 3 DEPARTURE**

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 342 PSN,

then via R 342 PSN to KALOD.

BUSAN(PSN) Transition: Right turn and proceed via KMH D12 arc to R 342 PSN,

then via R 342 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,

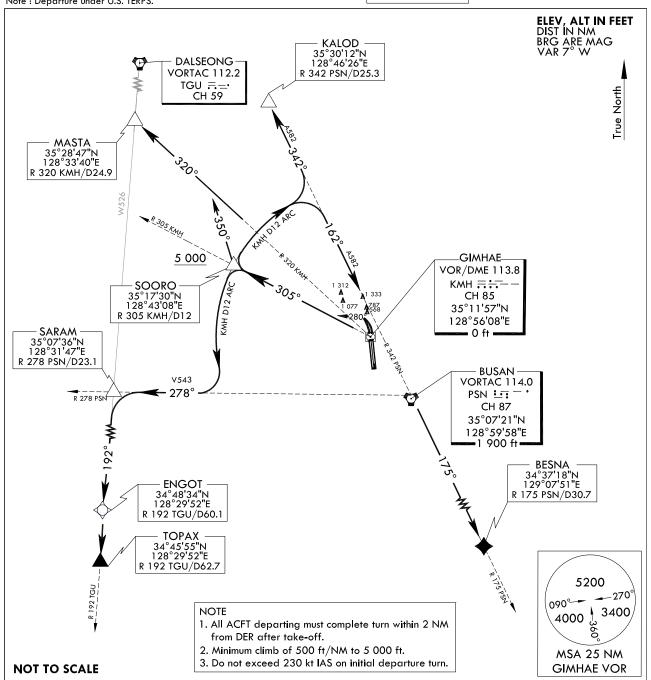
then via R 278 PSN to SARAM, then left turn via R 192 TGU to TOPAX.

**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 2

Note: Departure under U.S. TERPS.



#### **DEPARTURE ROUTE DESCRIPTION**

#### **SOORO 2 DEPARTURE**

TAKE-OFF 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 D12 arc to R 342 PSN, then via R 342 PSN to KALOD. BUSAN(PSN) Transition: Right turn and proceed via KMH D12 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 D12 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 D12 arc to R 342 PSN,

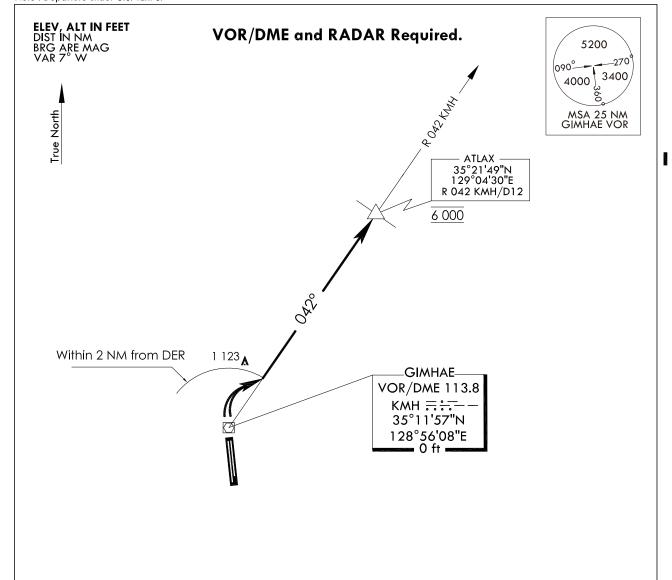
then via R 342 PSN to PSN, then via R 175 PSN to BESNA. Left turn and proceed via KMH D12 arc to R 278 PSN,

ENGOT Transition : Left turn and proceed via KMH D12 arc to R 278 PSN, then via R 278 PSN to SARAM, then left turn via R192 TGU to ENGOT.

**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** 

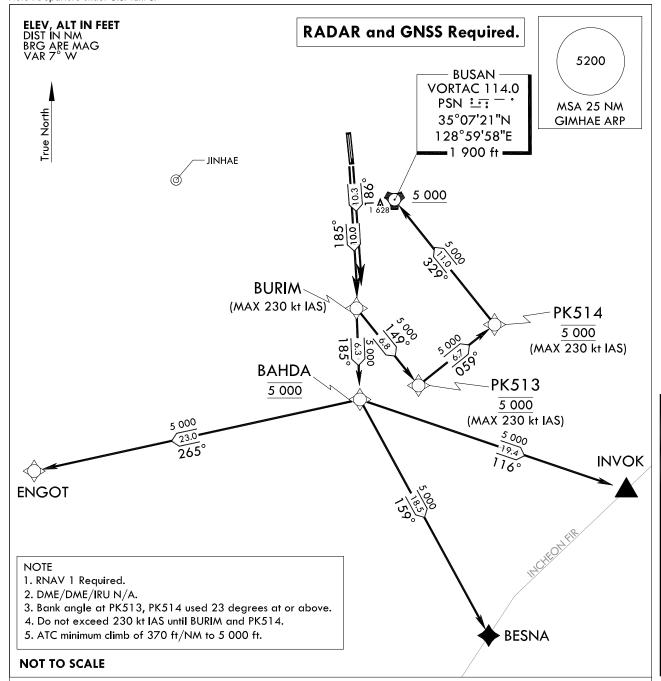
**BLANK** 

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

TRANSITION ALT 14 000 TRANSITION LVL FL 140

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

Note: Departure under U.S. TERPS.



### **DEPARTURE ROUTE DESCRIPTION**

**BURIM 3 DEPARTURE** 

TAKE-OFF RUNWAY 18R : Climb on course 185° to BURIM, thence.........
TAKE-OFF RUNWAY 18L : Climb on course 186° to BURIM, thence.........

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

ENGOT Transition : From BURIM on track 185° to cross BAHDA at 5 000 ft, then on track 265° to ENGOT. BESNA Transition : From BURIM on track 185° to cross BAHDA at 5 000 ft, then on track 159° to BESNA.

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

 $\underline{\text{BUSAN(PSN)}}$  Transition: From BURIM on track 149° to cross PK513 at 5 000 ft,

then on track 059° to cross PK514 at 5 000 ft,

then on track  $329^{\circ}$  to cross BUSAN(PSN) at or above 5 000 ft.

Change: Information of standard instrument departure procedure for RWY 18L/R(BURIM 2  $\rightarrow$  BURIM 3).

### BUSAN/Gimhae INTL(RKPK) RWY 18L/R RNAV(GNSS) BURIM 3

## **AERONAUTICAL DATA TABULATION**

Number         Descriptor         Identifier         o'er         °M(°T)         (NM)         direction         (ff)           001         −         RWY 36R         −         −         −         −         −           002         CF         BURIM         −         185.79(178.33)         10.29         −         −           Serial         Path         Waypoint         Fly         Course/Track         Distance         Tum         Altitude           NUMber         Descriptor         Identifier         o'er         0'M(°T)         0.03         −         +5 000           NUMber         Descriptor         Identifier         o'm(°T)         6.27         −         +5 000           NUMber         Descriptor         Identifier         o'm(°T)         6.27         −         +5 000           NUMber         Descriptor         Identifier         o'm(°T)         6.27         −         +5 000           NNAA V BURIM 3 - BESNA Transition         TF         BAHDA         −         185.24(177.77)         6.27         −         +5 000           NMAY BURIM 3 - INVOK Transition         TF         BESNA         −         185.24(177.77)         6.27         −         +5 000	e Speed Coordinates (YPA) Indvigation Remarks	35°10'10 10"N 128°55'25 14"E		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		e Speed Coordinates VPA/ Navigation Remarks (kt)	35°09'54.69"N 128°56'19.79"E - RNAV 1 DER	-230 34°59'52.3"N 128°56'48.1"E - RNAV 1 CG 370 ff/NM to 5 000 ff		e Speed Coordinates VPA/ Navigation Remarks (kt)	0 - 34°53'34.4"N 128°57'05.8"E - RNAV 1 CG 370 ft/NM to 5 000 ft	34°48'34.48"N 128°29'51.68"E - RNAV 1		e Speed Coordinates VPA/ Navigation Remarks	0 - 34°53'34.4"N 128°57'05.8"E - RNAV 1 CG 370 ft/NM to 5 000 ft	34°37'18.0"N 129°07'51.0"E - RNAV 1		e Speed Coordinates VPA/ Navigation Remarks TCH specification	0 - 34°53'34.4"N 128°57'05.8"E - RNAV 1 CG 370 ft/NM to 5 000 ft	0 - 34°47'19.0"N 129°19'23.0"E - RNAV 1		e Speed Coordinates VPA/ Navigation Remarks (kt)		0 -230 34°54'32.3"N 129°01'59.8"E - RNAV 1 CG 370 ft/NM to 5 000 ft
vér °M(°T) (NM)  185.79(178.33) 10.29  19. Course/Track Distance ver °M(°T) (NM)  185.24(177.77) 6.27  185.24(177.77) 6.27  185.24(177.77) 6.27  185.24(177.77) 6.27  185.24(177.77) 6.27  185.24(177.77) 6.27  185.24(177.77) 6.27  116.21(108.75) 19.38  ansition  iver °M(°T) (NM)  185.24(177.77) 6.27  116.21(108.75) 19.38			+				-				-   @2 00				-   @2 00	+5 000								- @5 000
vér °M(°T)  185.79(178.33)  19. Course/Track ver °M(°T)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  185.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)  186.24(177.77)	_	_	00001	10.29			ı	10.03		Distance (NM)	6.27	22.96			6.27	18.51			6.27	19.38				6.83
	(Lo) ** o	(1)	185 70/178 33	(00.071)47.001		Course/Track °M(°T)	•	185.25(177.79)		Course/Track °M(°T)	185.24(177.77)	265.04(257.58)		Course/Track °M(°T)	185.24(177.77)	158.81(151.34)		Course/Track °M(°T)	185.24(177.77)	116.21(108.75)	iju	Course/Track °M(°T)		148.71(141.24)
RWY 36R RWY 36R RWY 36R BURIM Waypoint Identifier RWY 36L BURIM Waypoint Identifier BAHDA BESNA NA Transiti Maypoint Identifier BAHDA INVOK Transiti NA Transiti Maypoint Identifier BAHDA INVOK	, ,	5				Fly- over			, O	Fly- over		1	5	Fly- over				Fly- over	,		Transit	Fly- over		
	2	Ideillier 10 470	AVA SOR	BOKIM BOKIM	VY 18R	Waypoint Identifier	RWY 36L	BURIM	OT Transiti	Waypoint Identifier	ВАНДА	ENGOT	VA Transitic	Waypoint Identifier	ВАНБА	BESNA	OK Transitic	Waypoint Identifier	ВАНДА	NVOK	(VORTAC)	Waypoint Identifier		PK513
	001	3	0	700	*parture	Serial Number	100	002	IAV BUF	Serial Number	100	002	IAV BUF	Serial Number	100	002	IAV BUR	Serial Number	100	002	IAV BUF	Serial Number	;	100

Change : Information of procedure name(BURIM 2  $\rightarrow$  BURIM 3) and transition route(TOPAX  $\rightarrow$  ENGOT).

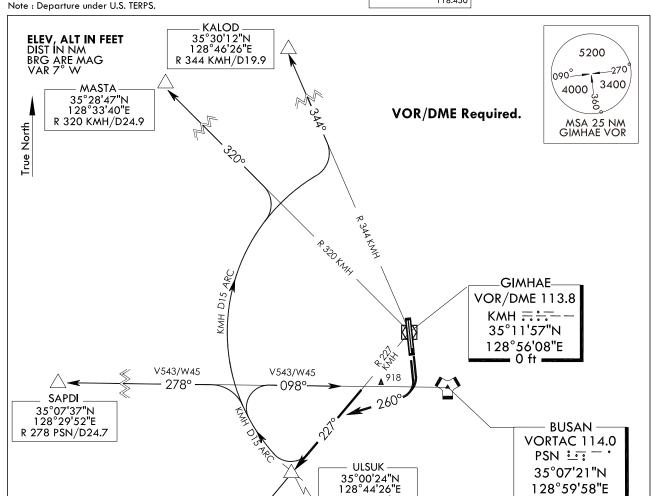
TRANSITION ALT 14 000 TRANSITION LVL FL 140

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

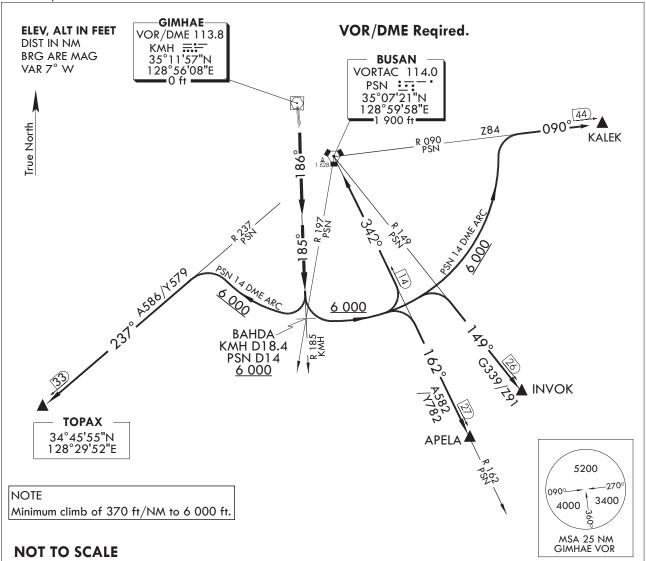
R 278 PSN to BUSAN (PSN).

**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  $186^\circ$  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**