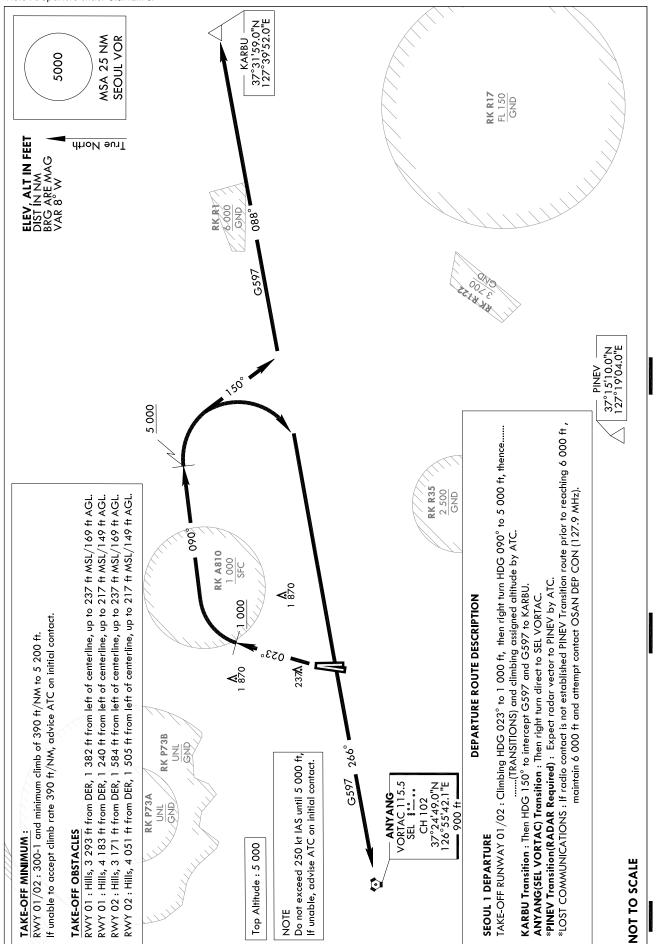
STANDARD DEPARTURE CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000 TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 234.5 236.6 SEOUL/Seoul (RKSM) RWY 01/02 SEOUL 1

Note: Departure under U.S. TERPS.



LEFT

SEOUL/Seoul (RKSM) RWY 01/02, RWY 19/20

SEOUL 2

STANDARD DEPARTURE CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000 TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 234.5 236.6

Note: Departure under U.S. TERPS

Top Altitude: 5 500 NOT TO SCALE Turn at or above 1 000 ft MSL instead of SOL 3 DME/KSM 4 DME. MSA 25 NM SEOUL VOR RWY 19 : Hills, 7 535 ft from DER, 2 340 ft from right of centerline, up to 356 ft MSL/279 ft AGL RWY 02 : Hills, 4 051 ft from DER, 1 505 ft from left of centerline, up to 217 ft MSL/149 ft AGL. RWY 01 : Hills, 3 293 ft from DER, 1 382 ft from left of centerline, up to 237 ft MSL/169 ft AGL RWY 01 : Hills, 4 183 ft from DER, 1 240 ft from left of centerline, up to 217 ft MSL/149 ft AGL RWY 02 : Hills, 3 171 ft from DER, 1 584 ft from left of centerline, up to 237 ft MSL/169 ft AGL RWY 19: Hills, 3 842 ft from DER, 522 ft from right of centerline, up to 187 ft MSL/110 ft AGL. RWY 19: Hills, 5 981 ft from DER, 341 ft from right of centerline, up to 277 ft MSL/200 ft AGL. 20 : Hills, 5 199 ft from DER, 1 494 ft from left of centerline, up to 277 ft MSL/184 ft AGL RWY 20 : Hills, 3 092 ft from DER, 1 078 ft from right of centerline, up to 187 ft MSL/94 ft AGL 20 : Hills, 6 962 ft from DER, 321 ft from right of centerline, up to 356 ft MSL/263 ft AGL 5000 If unable to accept climb rate 490 ft/NM, advice ATC on initial contact If unable to accept climb rate 450 ft/NM, advice ATC on initial contact ELEV, ALT IN FEET DIST IN NM BRG ARE MAG VAR 8° W Do not exceed 250 kt IAS until 5 500 ft, I rue Morth If unable, advise ATC on initial contact. 2. When DME(SOL and KSM) unuse, RWY 01/02 : 300-1 and minimum climb of 490 ft/NM to 5 500 ft. 3. VOR/DME or TACAN Required 37°31'59.0"N 127°39'52.0"E RWY 19/20: Minimum climb of 450 ft/NM to 3 000 ft. 0009 GND KARBU 088° 1 ws. ros ago & TAKE-OFF OBSTACLES TAKE-OFF MINIMUM 37°15'10.0"N 127°19'04.0"E G597 266° 1 SOL KSM D15 6 500 5 500 R 100 SOL/KSM *PINEV Transition(RADAR Required): Expect radar vector to PINEV by ATC.
*LOST COMMUNICATIONS: If radio contact is not established PINEV TRANSITION route prior to reaching
6 000 ft , maintain 6 000 ft and attempt contact OSAN DEP CON (127.9 MHz). 4 000 3 000 ANYANG(SEL VORTAC) Transition : Then fly SOL/KSM 15 DME ARC to intercept G597 and G597 to SEL **RK R35** 2 500 GND and R 060 SOL/KSM to cross 15 DME between 5 500 ft and 6 500 ft, .(TRANSITIONS) and climbing assigned altitude by ATC. and 4 000 ft, then climbing HDG 020° to intercept R 060 SOL/KSM 0ح0 and left turn HDG 020° to cross R 100 SOL/KSM between 3 000 ft HDG 100° to intercept R 060 SOL/KSM and R 060 SOL/KSM to KARBU Transtion: Then fly SOL/KSM 15 DME ARC to intercept G597 and G597 to KARBU 0ح0، FAKE-OFF RUNWAY 01/02 : Climb HDG 023 $^\circ$ to SOL or KSM 4 DME and right turn **RK A810** 100° cross 15 DME between 5 500 ft and 6 500 ft, thence OOO SFC **%**20 DEPARTURE ROUTE DESCRIPTION FAKE-OFF RUNWAY 19/20: Climb on HDG 190° to SOL or KSM 3 DME 3.4 237**** SOL KSM P4 **≪**8 SOL FSM D3 OTTE WORLD **TOWER** RK P73B CH 35 37°26'54.3"N 127°06'41.6"E 100 ft VOR/DME 109.8 KSM == 8___ TACAN CH 49 SOL SEOUL SEOUL WORTAC 115.5 37°24'49.0"N 126°55'42.1"E RK P73A NI ON B - 900 ft -CH 102 SEOUL 2 DEPARTURE

LEFT

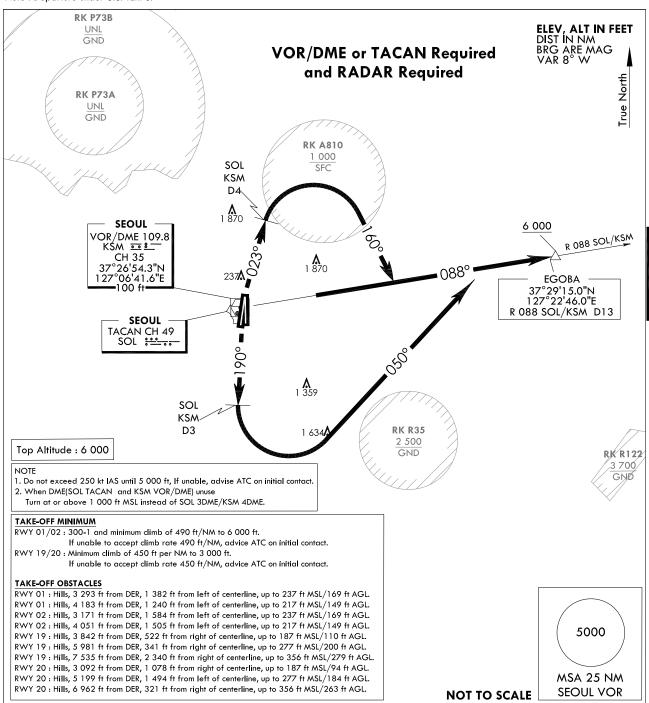
STANDARD DEPARTURE CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000 TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 234.5 236.6

SEOUL/Seoul (RKSM) RWY 01/02, RWY 19/20 **EGOBA 5**

Note: Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

EGOBA 5 DEPARTURE

TAKE-OFF RUNWAY 01/02 : Climb HDG 023° to SOL or KSM 4DME

and climbing right turn HDG 160° to intercept R 088 SOL/KSM and R 088 SOL/KSM to cross EGOBA at or above 6 000 ft.

TAKE-OFF RUNWAY 19/20: Climb HDG 190° to SOL or KSM 3DME

and climbing left turn HDG 050° to intercept R 088 SOL/KSM and

R 088 SOL/KSM to cross EGOBA at or above 6 000 ft.

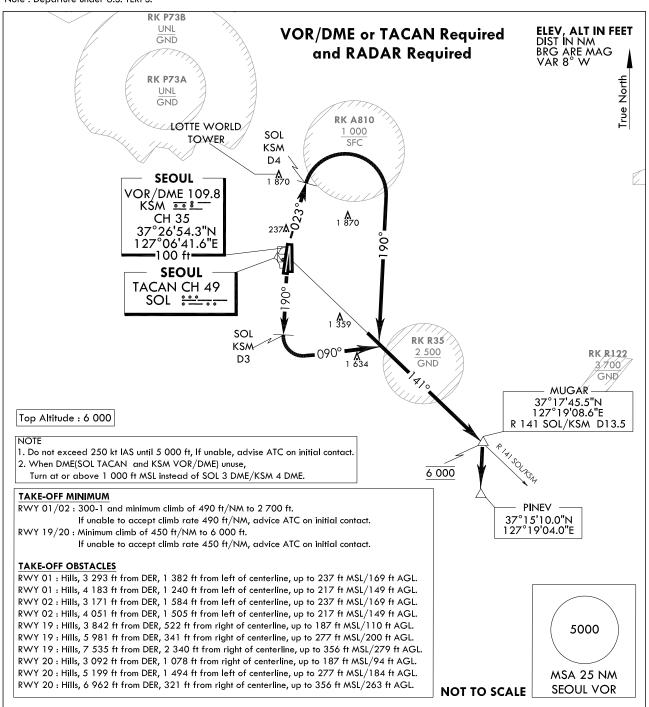
LEFT

STANDARD DEPARTURE CHART - INSTRUMENT(SID)

TRANSITION ALT 14 000 TRANSITION LVL FL 140

SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 234.5 236.6 SEOUL/Seoul (RKSM) RWY 01/02, RWY 19/20 PINEV 5

Note: Departure under U.S. TERPS.



DEPARTURE ROUTE DESCRIPTION

PINEV 5 DEPARTURE

TAKE-OFF RUNWAY 01/02 : Climb HDG 023° to SOL or KSM D4

and climbing right turn HDG 190° to intercept R 141 SOL/KSM and R 141 SOL/KSM to cross MUGAR at 6 000 ft,

then expect radar vector to PINEV or filed En-route fix by ATC.

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to SOL or KSM D3

and climbing left turn HDG 090° to intercept R 141 SOL/KSM and

R 141 SOL/KSM to cross MUGAR at 6 000 ft,

then expect radar vector to PINEV or filed En-route fix by ATC.

Change : Information of fix and procedure names(RICOE \rightarrow PINEV, NOROO \rightarrow MUGAR).

LEFT

STANDARD DEPARTURE CHART INSTRUMENT (SID)

Note: Departure under U.S TERPS.

TRANSITION ALT 14 000 TRANSITION LVL FL 140 SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 236.6 234.5 SEOUL/Seoul (RKSM) RWY 01/02 RNAV MEESA 1

ELEV, ALT IN FEET TAKE-OFF OBSTACLE: DIST IN NM RWY 01: Hills, 3 321 ft from DER, 1 411 ft from left of centerline, **BRG ARE MAG** up to 230 ft AMSL/161 ft AGL. VAR 8° W RWY 01 : Terrain, 1 964 ft from right of RWY 01 centerline, up to 342 ft AMSL/273 ft AGL. North RWY 02: Terrain, 2 181 ft from right of RWY 02 centerline, up to 342 ft AMSL/250 ft AGL. **TAKE-OFF MINIMUM:** RWY 01/02:300-1 and minimum climb of 430 ft/NM to 5 000 ft. A814 MEESA P73A 5 000 1060 3 796 20.16 Z 000 **KARBU EGOBA** 1 583 1. RNAV 1 Required. 1 766 2. DME/DME/IRU N/A. 3. GNSS Required. 2 327 MUGAR 5000 OBSTACLE MINIMUM CLIMB RATE TABLE

DEPARTURE PROCEDURE DESCRIPTION

RNAV MEESA 1 DEPARTURE

NOT TO SCALE

MSA 25 NM SEOUL ARP

TAKE-OFF RUNWAY 01/02: Climb on HDG 023° to 2 300 ft, then right turn direct MEESA,

cross MEESA at or above 5 000 ft, thence.....

PINEV

......(transition) maintain 6 000 ft, expect filed altitude 10 minutes after departure.

KNOTS

V/V(fpm)

60

430

120

180

240

860 | 1 290 | 1 720 | 2 150 | 5 000

300

KARBU TRANSITION: Track 106° to KARBU and climb to assigned altitude. **EGOBA TRANSITION**: Track 139° to EGOBA and climb to assigned altitude.

PINEV TRANSITION: Track 139° to EGOBA and Track 202° to MUGAR and Track 189° to PINEV

and climb to assigned altitude.

Change : Information of fix names(RICOE \rightarrow PINEV, NOROO \rightarrow MUGAR).

AIRAC AIP AMDT 12/21A Effective : 1600UTC 1 DEC 2021

RKSM AD CHART 2 - 7 - 1 21 OCT 2021

SEOUL/Seoul (RKSM) RWY 01/02 RNAV MEESA 1

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

Pomorre	CUIDING			
VPA Navigation	specification	RNAV1	RNAV1	
VPA	/TCH	ı	I	
مونيمنانيمين		1	37°34'43.9"N 127°14'44.8"E	
Speed	(kt)	-250	-250	
Altitude	(ft)	@2 300 -250	+5 000 -250	
Turn	Direction	I	æ	
Distance	(NW)	ı	ı	
Serial Path Waypoint Fly Course/Track Distance Turn Altitude Speed	° M(° T)	Heading 023°	I	
Fly	-Over	I	Ι	
Waypoint	Identifier	I	MEESA	
Path	Descriptor	٧A	JO	
Serial	Number	001	002	

reeder Routes	COLICS											
Serial	Path	Waypoint	Fly	ပိ	Distance	Turn	Altitude	Speed	Setzaibaco	VPA	VPA Navigation	Remarks
Number	Descriptor	Number Descriptor Identifier -Over	-Over	° M(° T)	(WZ)	NM) Direction (ft)	(‡)	(kt)		/TCH	/TCH specification	
100	DF	MEESA	I	ı	I	ı	+5 000	ı	37°34'43.9"N 127°14'44.8"E	I	RNAV1	
002	Ľ	KARBU	ı	106°/98°	20.16	~	+7 000	ı	37°31'59.0"N 127°39'52.0"E	I	I	

eder	Feeder Routes											
Serial lumber	Path Descriptor	Waypoint Identifier	Fly -Over	Serial Path Waypoint Fly Course/Track Number Descriptor Identifier -Over ° M(° T)	Distance Turn Altitude Speed (NM) Direction (ft) (kt)	Vistance Turn Altitude (NM) Direction (ft)	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	DF	MEESA	I	I	ı	I	+5 000 -250	-250	37°34'43.9"N 127°14'44.8"E	I	RNAV1	
002	ΤF	EGOBA	I	139°/131°	8.41	R	R @6 000	I	37°29'15.0"N 127°22'46.0"E	I	RNAV1	
003	TF	MUGAR	ı	202°/194°	11.83	8	000 9@	I	37°17'45.5"N 127°19'08.6"E	I	RNAV1	
004	ΤF	PINEV	I	189°/181°	2.58	٦	000 9@ 1	ı	37°15'10.0"N 127°19'04.0"E	I	RNAV1	

Change : Information of fix names(RICOE \rightarrow PINEV, NOROO \rightarrow MUGAR).

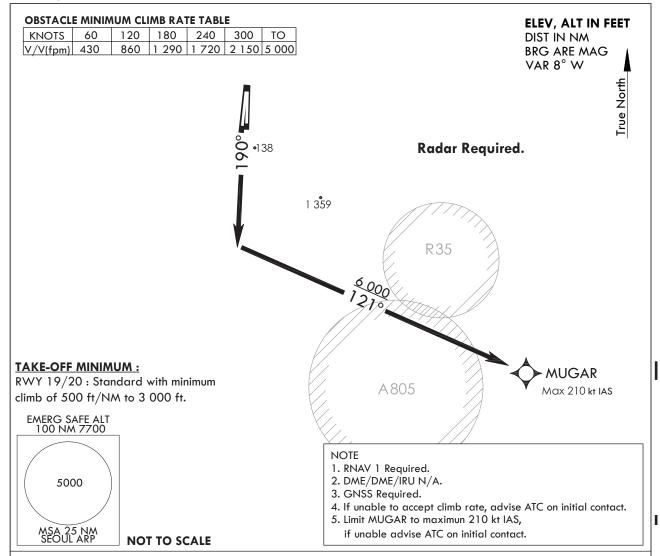
RKSM AD CHART 2 - 8

Republic of Korea 21 OCT 2021

STANDARD DEPARTURE CHART **INSTRUMENT (SID)**

Note: Departure under U.S TERPS.

SEOUL 123.8 363.8 DEP TRANSITION ALT 14 000 **SEOUL** TWR 126.2 TRANSITION LVL FL 140 236.6 234.5 SEOUL/Seoul (RKSM) **RWY 19/20** RNAV MUGAR 1



DEPARTURE PROCEDURE DESCRIPTION

RNAV MUGAR 1 DEPARTURE

TAKE-OFF RUNWAY 19/20: Climb HDG 190° to intercept course 121° to MUGAR and climb to 6 000 ft, hence climb on assigned heading for radar vector.

RKSM AD CHART 2 - 8 - 1

21 OCT 2021 Republic of Korea

SEOUL/Seoul (RKSM) **RWY 19/20 RNAV MUGAR 1**

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

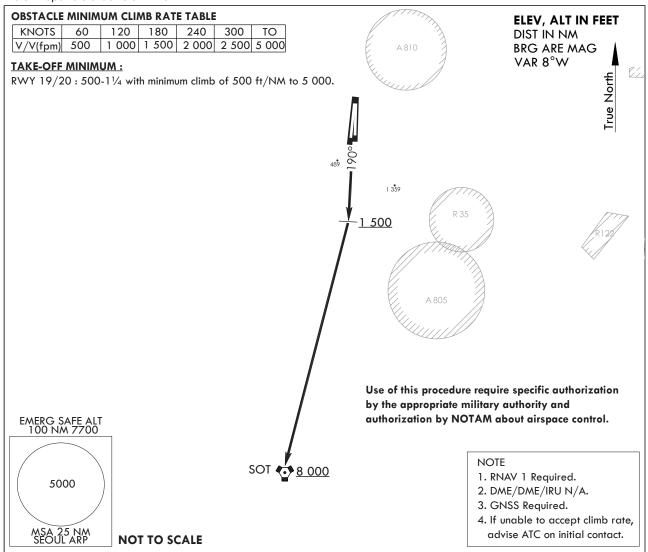
RNAV MUGAR	MUGAR 1											
Serial Number	Serial Path Waypoint Fly Number Descriptor Identifier -Over	Waypoint Fly Course/ Identifier -Over °M(°	Fly -Over	Course/T ° M(° 1	rack Distance Turn Altitude Speed (NM) Direction (ft) (kt)	stance Turn Altitude Spee (NM) Direction (ft) (kt)	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	VPA Navigation /TCH specification	Remarks
100	>	I	I	Heading 190°	I	I	I	-210	ı	I	RNAV1	Bank angle 20°
005	P	CF MUGAR	I	121°/113°	I	7	+6 000	-210	+6 000 -210 37°17'45.5"N 127°19'08.6"E	I	RNAV1	Bank angle 20°

Change : Information of fix and procedure name(NOROO \rightarrow MUGAR).

STANDARD DEPARTURE CHART INSTRUMENT (SID)

Note: Departure under U.S TERPS.

TRANSITION ALT 14 000 TRANSITION LVL FL 140 SEOUL DEP 123.8 363.8 SEOUL TWR 126.2 236.6 234.5 SEOUL/Seoul (RKSM) RWY 19/20 RNAV SONGTAN 1



DEPARTURE PROCEDURE DESCRIPTION

RNAV SONGTAN 1 DEPARTURE

TAKE-OFF RUNWAY 19/20 : Climb HDG 190° to 1 500 ft, then right turn direct SOT(SONGTAN VORTAC) and climb assigned altitude.

SEOUL/Seoul (RKSM) **RWY 19/20 RNAV SONGTAN 1**

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

	ion Remarks	l ICA	
	VPA Navigation /TCH specification	RNAV1	RNAV1
	VPA /TCH	I	ı
	Coordinates	I	37°05'39.7"N 127°01'54.0"E
	Speed (kt)	ı	ı
	Altitude (ft)	+1 500	+8 000
	istance Turn Altitude (NM) Direction (ft)	I	~
	Distance (NM)	I	I
	Course/Track Distance Turn Altitude Speed ° M(° T) (NM) Direction (ft) (kt)	Heading 190°	I
	Fly -Over	I	I
1	Serial Path Waypoint Fly Cou lumber Descriptor Identifier -Over	I	SOT
NAV SONGTAN	Path Descriptor	A >	P
RNAV S	Serial Number	001	002

 ${\it Change: Amended \ coordinate \ format.}$

STANDARD DEPARTURE CHART **INSTRUMENT (SID)**

Note: Departure under U.S TERPS.

TRANSITION ALT 14 000 TRANSITION LVL FL 140 **SEOUL** 123.8 363.8 DFP SEOUL TWR 126.2 236.6 234.5 SEOUL/Seoul (RKSM) **RWY 19/20** RNAV YEOJU 1

True North

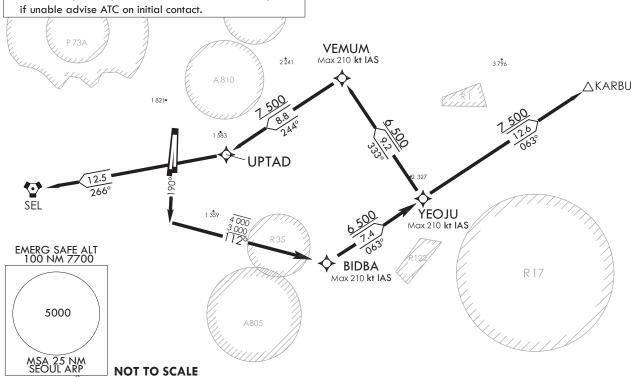
ELEV, ALT IN FEET

DIST IN NM

BRG ARE MAG VAR 8° W

OBSTACLE MINIMUM CLIMB RATE TABLE KNOTS 60 120 180 240 300 TO V/V(fpm) 500 1 000 1 500 2 000 2 500 5 000 **TAKE-OFF MINIMUM:** RWY 19/20: Standard with minimum climb of 500 ft/NM to 4 000 ft.

- 1. RNAV 1 Required. 2. DME/DME/IRU N/A.
- 3. GNSS Required.
- 4. If unable to accept climb rate, advise ATC on initial contact.
- 5. Limit BIDBA, YEOJU, VEMUM to maximun 210 kt IAS,



DEPARTURE PROCEDURE DESCRIPTION

RNAV YEOJU 1 DEPARTURE

TAKE-OFF RUNWAY 19/20: Climb HDG 190° to intercept course 112° to BIDBA, and left turn, track 063° to YEOJU, THENCE....(transition) maintain 6 500 ft, expect filed altitude 10 minutes after departure.

KARBU TRANSITION: Track 063° to KARBU and climb to assigned altitude.

ANYANG(SEL VORTAC) TRANSITION: Track 333° to VEMUM and left turn track 244° to UPTAD and right turn track 266° to ANYANG(SEL VORTAC) and climb to assigned altitude.

Change : Information of fix name(JINSU \rightarrow UPTAD).

SEOUL/Seoul (RKSM) RWY 19/20 RNAV YEOJU 1

AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

ZAV.	NAV YEOJU 1											
Serial	Path Descriptor	Waypoint Identifier	Fly -Over	Serial Path Waypoint Fly Course/Track Vumber Descriptor Identifier -Over ° M(° T)	Distance (NM)	istance Turn Altitude (NM) Direction (ft)	DistanceTurnAltitudeSpeed(NM)Direction(ft)(kt)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001	>	I	ı	HDG 190	Ι	I	I	-210	I	-	RNAV 1	RNAV 1 Bank angle 20°
002	Ъ	BIDBA	I	112/104	ı	_	-4 000 +3 000 -210	-210	37°20'33.3"N 127°19'14.5"E	1	RNAV 1	RNAV 1 Bank angle 20°
003	Ħ	YEOJU	I	063/055.1	7.37	I	+6 500 -210	-210	37°24'46.4"N 127°26'49.9"E	I	RNAV 1	Bank angle 20°

Path Descriptor	Waypoint Identifier	Fly -Over	Course/Track ° M(° T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	Coordinates	VPA /TCH	Navigation specification	Remarks
001 TF	YEOJU	ı	ı	I	I	+6 500	-210	37°24'46.4"N 127°26'49.9"E	ı	RNAV 1	RNAV 1 Bank angle 20°
TF	VEMUM	_	333/325.2	9.23	7	+6 500	-210	37°32'21.3"N 127°20'12.4"E	I	RNAV 1	RNAV 1 Bank angle 20°
003 TF	UPTAD	ı	244/235.6	8.82	~	+7 500	I	37°27'21.3"N 127°11'04.2"E	I	RNAV 1	
004 TF	SEL	I	266/258.4	12.5	I	I	ı	37°24'49.0"N 126°55'42.1"E	ı	RNAV 1	ENROUTE
	Path Descriptor TF TF TF	Path Waypoint Descriptor Identifier TF YEOJU TF VEMUM TF UPTAD TF SEL	Peth Waypoint Fly Descriptor Identifier -Over TF YEOJU - TF VEMUM - TF UPTAD -	Path Waypoint Fly Course/Track Descriptor Identifier -Over ° M(° T) TF YEOJU - - TF VEMUM - 333/325.2 TF UPTAD - 244/235.6 TF SEL - 266/258.4	Path Waypoint Fly Course/Track Districted Descriptor Identifier -Over ° M(° T) (P TF YEOJU - - - TF VEMUM - 333/325.2 9 TF UPTAD - 244/235.6 8 TF SEL - 266/258.4 1	ance Turn M) Direction	ance Turn M) Direction	ance Turn Altitude (M) Direction (ft) +6 500 23 L +6 500 82 R +7 500 2.5	ance Turn Altitude Speed (M) Direction (ft) (kt) -	ance Turn Altitude Speed Coordinates - +6 500 -210 37°24'46.4"N 127°26'49.9"E 23 L +6 500 -210 37°32'21.3"N 127°20'12.4"E 82 R +7 500 - 37°27'21.3"N 127°11'04.2"E 2.5 37°24'49.0"N 126°55'42.1"E	ance Turn Altitude Speed Coordinates VPA N Direction (ft) (kt) (kt) 37°24'46.4"N 127°26'49.9"E

	17:10	14/21	1	Transl.		F	A 1454	0.00		40,	1	
nber	Number Descriptor Identifier	vv a ypoint Identifier	-Over	Identifier -Over ° M(° T)	(NM)	(NM) Direction (ft)	บ	Speed (kt)	Coordinates	/TCH	specification	Remarks
100	Ħ	YEOJU	ı	ı	ı	1	+6 500 -210	-210	37°24'46.4"N 127°26'49.9"E	I	RNAV 1	
002	Ŧ	KARBU	I	063/055.1	12.6	œ	+7 500	ı	37°31'59.0"N 127°39'52.0"E	ı	RNAV 1	ENROUTE

Change : Information of fix name(JINSU \rightarrow UPTAD).