

SEOUL/Incheon Intl(RKSI) RWY 15L/R RNAV BINIL 3C, RNAV BOPTA 3C

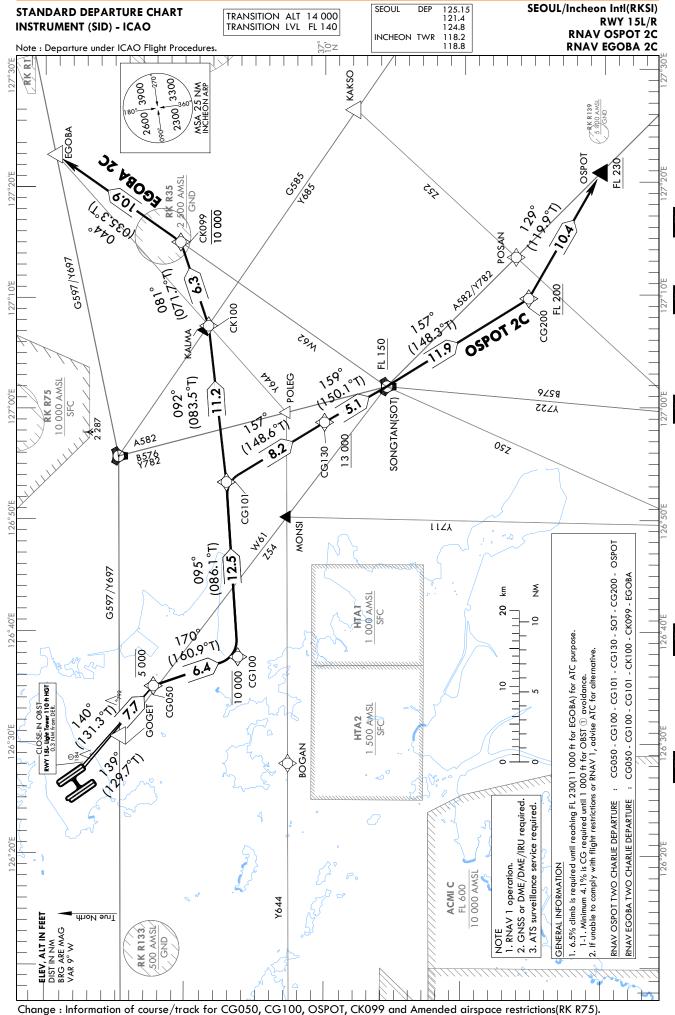
AERONAUTICAL DATA TABULATION

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Serial Number Path Leartifier over Jrack Number Course/Track Distance Number Tum Liftude Leartifier over Jrack Number Number Tum Liftude Leartifier over Jule Number Number Number Tum Liftude Leartifier over Jule Number Numb												
15L-140[131.3] 7.7 R -5 000 . 170 (160.9) 6.4 - -8 000 . 224 (215.3) 12.1 - +9 000 . 278 (269.5) 8.1 . -10 000 . 278 (269.4) 10.4 . . . 302 (293.3) 15.6 . . +FL 180 . 302 (293.2) 29.5 		Vaypoint dentifier	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
- 170 (160.9) 6.48000		CG050		15L-140(131.3) 15R-139(129.7)		В	-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1	
. 224 (215.3) 12.110 000		CG100			6.4		-8 000	ı	37°16'16.3"N 126°37'43.8"E		RNAV 1	
. 278 (269.5) 8.110 000	_ '	CP101		224 (215.3)	12.1		-10 000 +9 000		37°06'20.2"N 126°28'57.6"E	·	RNAV 1	-
. 278 (269.4) 10.4		ATNER		278 (269.5)	8.1		-10 000	ı	37°06'1 5.9"N 1 26°18'52.5"E		RNAV 1	ı
. 302 (293.3) 15.6 . +Ft 180		HP121		278 (269.4)	10.4		1		37°06'09.0"N 126°05'52.3"E		RNAV 1	
. 302 (293.2) 29.5		BELTU			15.6	·	+FL 180		37°12'18.0"N 125°47'59.0"E		RNAV 1	
		BINIL		302 (293.2)	29.5				37°23'49.2"N 125°13'59.3"E		RNAV 1	•

Peath Waypoint Fly- Course/Track Distance Turn Allitiude Speed Speed CF CG050 - 15L-130(130,7] 7.7 R -5 000 - 15R-130(130,7] TF CG100 - 170 (160.9) 6.4 8 000 - 13 000 - 190 (181.1) 8.8 - 13 000 - 13 000 - 190 (181.1) RF CD120 - 189 (180.6) 8.4 13 000 - 11 000				
151-140[1313]	(ft) (NM) direction (ft)	Speed Coordinates (kt)	VPA/ Navigation RDH specification	Navigation specification
TF CG100 - 170 (160.9) 6.48 000 - 13 000 TF CD120 - 190 (181.1) 8.813 000 TF VIMER - 189 (180.6) 8.413 000 TF EXUTO - 188 (179.5) 5.9 - +Ft.145	131.3) 7.7 R	37°22'18.4"N 126°35'07.0"E	- R	RNAV 1
TF CD120 - 190 (181.1) 8.813 000 - +9 000 TF VIMER - 189 (180.6) 8.413 000 - TF EXUTO - 188 (179.5) 5.9 - +FL145	- 6.4	- 37°16'16.3"N 126°37'43.8"E		RNAV 1
TF VIMER - 189 (180.6) 8.413 000 - TF EXUTO - 188 (179.5) 5.9 - +Ft.145 -	- 8.8 -	37°07'27.8"N 126°37'31.2"E	. R	RNAV 1
TF EXUTO - 188 (179.5) 5.9 - +FL 145 -	. 8.4 -	36°59'02.8"N 126°37'24.9"E	۱ .	RNAV 1
	- 5.9 -	36°53'08.6"N 126°37'29.0"E	R	RNAV 1
9.0 - +FL 170 -	1 (182.6) 9.0 - +FL 170	36°44'06,4"N 126°36'58.4"E		RNAV 1

Change : Information of standard instrument departure procedures (RNAV BINIL 2C, BOPTA 2C \rightarrow BINIL 3C, BOPTA 3C).



SEOUL/Incheon Intl(RKSI) RWY 15L/R RNAV OSPOT 2C, RNAV EGOBA 2C

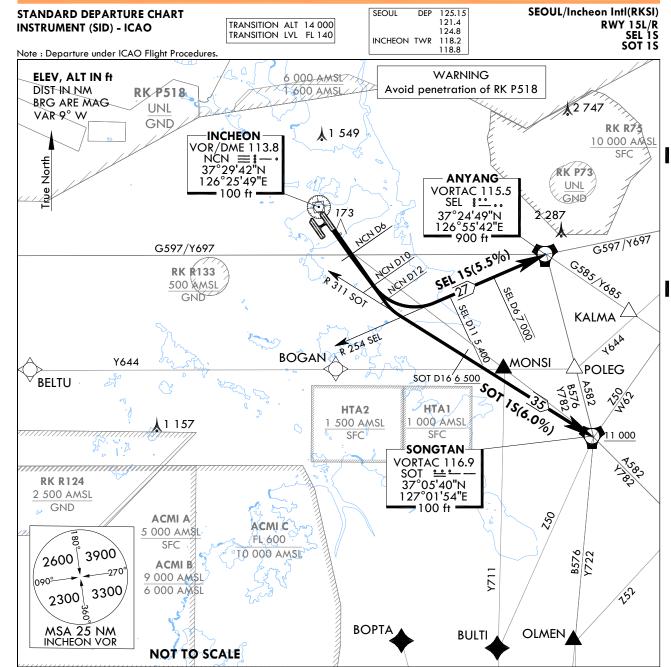
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV OSPOT 2C	POT 2C												
Serial Number	Path Descriptor	Waypoint Identifier	Fly- over	Serial Path Waypoint Fly- Course/Track Distance	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks	
100	CF	CG050	'	15L-140(131.3) SR-139(129.7)	7.7	R	-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1	-	
005	¥	CG100	•	170 (160.9)	6.4		-10 000		37°16'16.3"N 126°37'43.8"E		RNAV 1		
003	¥	CG101		095 (086.1)	12.5		ı	,	37°17'06.9"N 126°53'22.3"E		RNAV 1		
004	Ŧ	CG130		157 (148.6)	8.2		+13 000		37°10'05.7"N 126°58'43.0"E		RNAV 1	•	
900	ΤF	SOT	٠	159 (150.1)	5.1		+FL 150	,	37°05'39.7"N 127°01'54.0"E		RNAV 1		
900	ΤF	CG200		157 (148.3)	11.9		+FL 200		36°55'29.2"N 127°09'43.6"E		RNAV 1	•	
200	Ľ	OSPOT		129 (119.9)	10.4		+FL 230		36°50'18.1"N 127°20'54.9"E		RNAV 1		

on Remarks						
VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH				•		
Coordinates	37°22'18.4"N 126°35'07.0"E	37°16'16.3"N 126°37'43.8"E	37°17'06.9"N 126°53'22.3"E	37°18'22.7"N 127°07'21.4"E	37°20'21.2"N 127°14'52.0"E	37°29'1 4.7"N 127°22'45.9"E
Speed (kt)						
Altitude (ft)	-5 000	-10 000		ı	-10 000	
Track Distance Turn Attitude Speed T) (NM) direction (ff) (kt)	В					
Distance (NM)	7.7	6.4	12.5	11.2	6.3	10.9
Course/Track °M(°T)	15L-140(131.3) 15R-139(129.7)	170 (160.9)	095 (086.1) 12.5	092 (083.5)	081 (071.7)	044 (035.3)
Fly- over						
Waypoint Identifier	CG050	CG100	CG101	CK100	CK099	EGOBA
Serial Path Waypoint Fly- Course/1 Vumber Descriptor Identifier over "M("T	CF	¥	1	11	Ħ	TF
Serial Path	100	002	003	004	900	900

Change: Information of course/track for CG050, CG100, OSPOT, CK099.



- 1. CG in excess of 3.3% necessary and also strict adherence to CG required for airspace, ATC and noise abatement purposes.
 - SEL 1S minimum CG 5.5% to 7 000 ft.
 - SOT 1S minimum CG 6.0% to FL 170.
- 2. If unable to comply with flight restrictions, advise ATC well before departure for alternatives.
- 3. Step climb: Due to interaction with other routes, do NOT climb above 7 000 ft unless cleared by ATC.

SEL(ANYANG) ONE SIERRA DEPARTURE

TAKE OFF RWY 15L: Climb on R 154 NCN, thence...

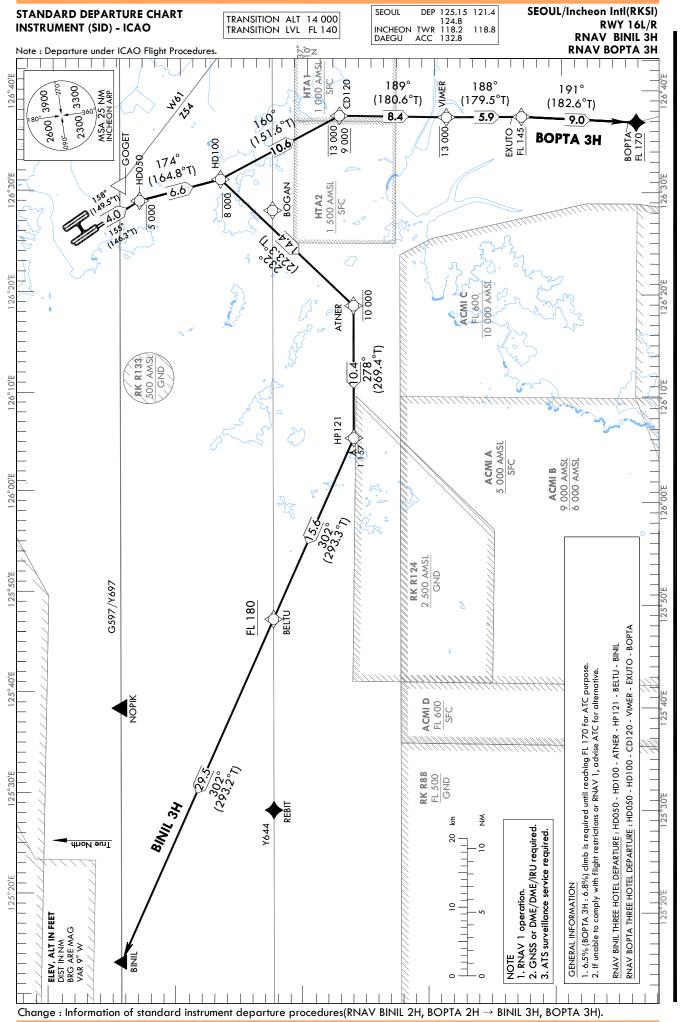
TAKE OFF RWY 15R: Climb straight ahead, at NCN D6 turn left onto R 154 NCN, thence...
at NCN D10 turn left to intercept R 254 SEL and proceed to SEL, fly by SEL.
Cross SEL D11 at or above 5 400 ft and SEL D6 at 7 000 ft until instructed by ATC.

SOT(SONGTAN) ONE SIERRA DEPARTURE

TAKE OFF RWY 15L : Climb on R 154 NCN, thence...

TAKE OFF RWY 15R: Climb straight ahead, at NCN D6 turn left onto R 154 NCN, thence...
at NCN D12 turn left to intercept R 311 SOT and proceed SOT. At or above 6 500 ft
by SOT D16, at or above 11 000 ft by SOT and at or above FL 150 by
SOT D8 on A582 or B576. Maintain 7 000 ft until instructed by ATC.

LEFT



SEOUL/Incheon Intl(RKSI) RWY 16L/R RNAV BINIL 3H, RNAV BOPTA 3H

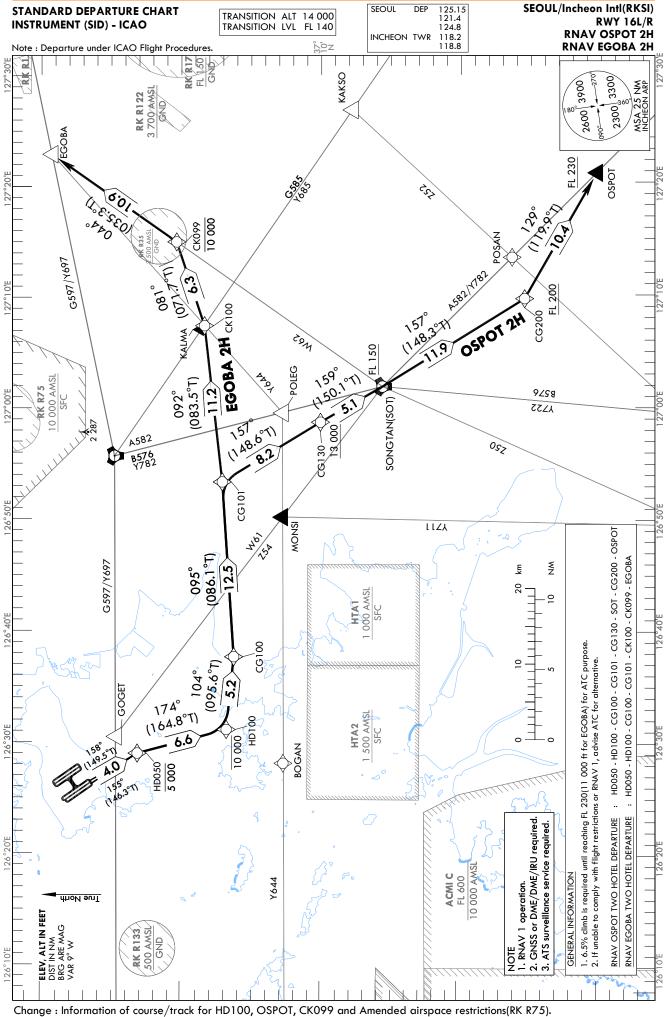
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV BINIL 3H	IL 3H												
Serial Number	ے	Waypoint Identifier	FIy- over	Path Waypoint Fly- Course/Track Distance	Distance (NM)	Turn direction	Turn Altitude Speed direction (ft) (kt)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks	
100	CF	HD050		16L-158(149.5) 16R-155(146.3)	4.0	В	-5 000		37°23'08.6"N 126°29'03.7"E		RNAV 1		
002	TF.	HD100		174 (164.8)	9.9		000 8-		37°16'47.0"N 126°31'13.0"E		RNAV 1		
003	TF	ATNER		232 (223.3)	14.4		-10 000		37°06'15.9"N 126°18'52.5'E		RNAV 1	-	
004	#	HP121		278 (269.4)	10.4	ı	1		37°06'09.0"N 126°05'52.3"E		RNAV 1	1	
900	TF.	BELTU		302 (293.3)	15.6		+FL 180		37°12'18.0"N 125°47'59.0'E		RNAV 1	•	
900	¥	BINIE		302 (293.2)	29.5	ı			37°23'49.2"N 125°13'59.3"E		RNAV 1		

Serial Number Path Maypoint Fly- Ourse/Track Number (New) Distance Infection Turn Altitude (Hy) Speed (Hy) Speed (Hord) Coordinates (kt) VPA, Specification (Now) Navigation (Now) Remarks 001 CF HD050 - 16k-158[146,3] 4.0 R -5 000 - 37°23'08.6"N 126°29'03.7"E - RNAV 1 - 002 TF HD100 - 174 (164.8) 6.6 - -8 000 - 37°07'27.8"N 126°37'31.2"E - RNAV 1 - 003 TF VIMER - 160 (151.6) - -13 000 - 37°07'27.8"N 126°37'31.2"E - RNAV 1 - 004 TF VIMER - 189 (180.6) 8.4 - - - 36°59'02.8"N 126°37'24.9"E - RNAV 1 - 005 TF RUTO - 188 (179.5) - +FI 145 - 36°59'02.8"N 126°35'25.9"E - RNAV 1 - 005 TF RNAV - -	100100	10.0											
CF HD050 . 164-158(149.5) 4.0 R -5 000 . 37°23'08.6"N 126°29'03.7"E TF HD100 . 174 (164.8) 6.6 8000 8000 . 37°16'47.0"N 126°31'13.0"E TF CD120 . 160 (151.6) 10.6 13 000 13 000 . 37°07'27.8"N 126°37'31.2"E TF VIMER . 189 (180.6) 8.4 13 000 13 000 36°53'08.6"N 126°37'24.9"E TF EXUTO . 188 (179.5) 5.9 . +FL 145	Serial Number	Path Descriptor	Waypoint Identifier	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
TF HD100 - 174 (164.8) 6.6 - -8 000 - 37°16/47.0"N 126°37'11.30"E - TF CD120 - 160 (151.6) 10.6 - -13 000 - 37°07'27.8"N 126°37'31.2"E - TF VIMER - 189 (180.6) 8.4 - -13 000 - 36°59'02.8"N 126°37'24.9"E - TF EXUTO - 188 (179.5) 5.9 - +FL 145 - 36°53'08.6"N 126°37'29.0"E - TF BOPTA - 191 (182.6) 9.0 - +FL 170 - 36°44'06.4"N 126°35'58.4"E -	100	GF	HD050		16L-158(149.5) 16R-155(146.3)		ĸ	-5 000		37°23'08.6"N 126°29'03.7"E		RNAV 1	
TF CD120 - 160 (151.6) 10.6 - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -13 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) - -14 000 (151.8) 14 000 (151.8)	005	Ŧ	HD100			9.9	ı	-8 000	ı	37°16'47.0"N 126°31'13.0"E		RNAV 1	
TF VIMER - 189 (180.6) 8.413 000 - 36°59′02.8"N 126°37′24.9"E13 000 - 188 (179.5) 5.9 - +FL 145 - 36°53′08.6"N 126°37′29.0"E14	003	TF	CD120			10.6	-	-13 000 +9 000		37°07'27.8"N 126°37'31.2"E		RNAV 1	•
TF EXUTO - 188 (179.5) 5.9 - +FL 145 - 36°53'08.6"N 126°37'29.0"E - 170 - 36°44'06.4"N 126°35'58.4"E - 170 - 36°44'06.4"N 126°36'58.4"E - 170 - 36°44'06.4"N 126°36'58'4"E - 170 - 36°44'06'4"N 126°56'4"E - 170 - 36°44'06'4"N 126°56'4"E - 170 - 36°44'06'4"N 126°56'4"E - 170 - 36°44'06'4"N 126°56'4	004	ΤF	VIMER			8.4	-	-13 000		36°59'02.8"N 126°37'24.9"E		RNAV 1	
TF BOPTA - 191 (182.6) 9.0 - +FL 170 - 36°44′06.4″N 126°36′58.4″E -	005	ΤF	EXUTO		(179.5)	5.9		+FL 145		36°53'08.6"N 126°37'29.0"E		RNAV 1	
	900	ΤF	BOPTA		(182.6)	0.6	ı	+FL 170		36°44'06.4"N 126°36'58.4"E		RNAV 1	

Change: Information of standard instrument departure procedures(RNAV BINIL 2H, BOPTA 2H → BINIL 3H, BOPTA 3H).



SEOUL/Incheon Intl(RKSI) RWY 16L/R RNAV OSPOT 2H, RNAV EGOBA 2H

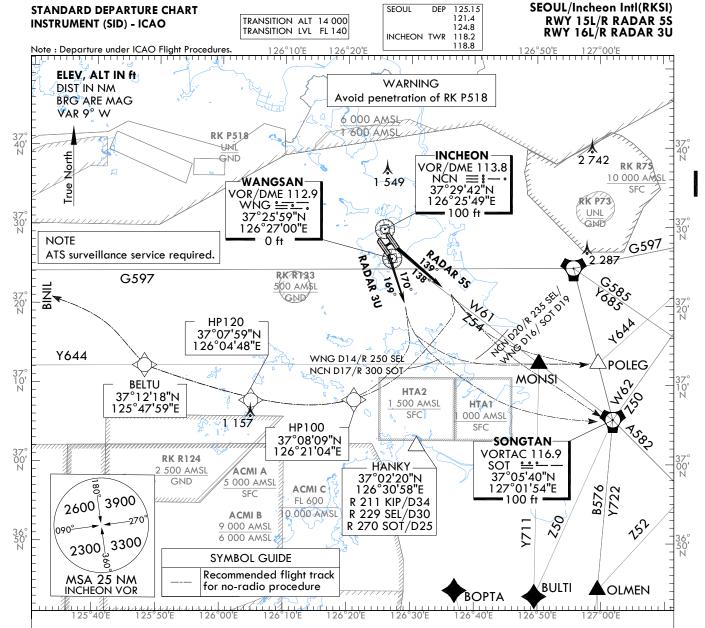
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

Course/Track Distance Turn	Course/Track Distance Turn	/Track Distance Turn	Turn	_	¥	tude	Speed		VPA/	Navigation	-
Number Descriptor Identifier over °M(°T) (NM) direction	(WN) (L _o)W _o	(WZ)		direction		(‡)	(k±	Coordinates	RDH	RDH specification	Kemarks
HD050 - 16L-158(149.5) 4.0 R	(149.5)	(149.5)	4.0 R	ъ		-5 000		37°23'08.6"N 126°29'03.7"E		RNAV 1	
HD100 - 174 (164.8) 6.6 -	164.8)	164.8)	- 9.9			-10 000	ı	37°16'47.0"N 126°31'13.0"E	٠	RNAV 1	
CG100 - 104 (095.6) 5.2 -	095.6)	095.6)	5.2					37°16'16.3"N 126°37'43.8"E	-	RNAV 1	-
CG101 - 095 (086.1) 12.5 -	186.1)	186.1)	12.5	•			-	37°17'06.9"N 126°53'22.3"E	-	RNAV 1	-
CG130 - 157 (148.6) 8.2 -	48.6)	48.6)	8.2			+13 000		37°10'05.7"N 126°58'43.0"E		RNAV 1	
SOT - 159 (150.1) 5.1 -	150.1)	150.1)	5.1	•		+FL 150		37°05'39.7"N 127°01'54.0"E	•	RNAV 1	-
CG200 - 157 (148.3) 11.9 -	148.3)	148.3)	- 6:11			+FL 200	-	36°55'29.2"N 127°09'43.6"E	-	RNAV 1	
OSPOT - 129 (119.9) 10.4 -	119.9)	119.9)	10.4			+FL 230		36°50'18.1"N 127°20'54.9"E	,	RNAV 1	ı

판	1	-								
Number Descriptor Identifier over	<u>ა</u>	Path Waypoint Fly- Course/Track scriptor Identifier over "M("T)	(°T) (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
	16 16F	16L-158(149.5) 16R-155(146.3)	4.0	æ	-5 000		37°23'08.6"N 126°29'03.7"E		RNAV 1	•
	_	174 (164.8)	9.9		-10 000		37°16'47.0"N 126°31'13.0"E	•	RNAV 1	1
	_	104 (095.6)	5.2				37°16'16.3"N 126°37'43.8"E		RNAV 1	ı
		095 (086.1)	12.5			ı	37°17'06.9"N 126°53'22.3"E		RNAV 1	ı
	-	092 (083.5)	11.2				37°18'22.7"N 127°07'21.4"E		RNAV 1	
	0	(2.170) 180	6.3		-10 000	1	37°20'21.2"N 127°14'52.0"E		RNAV 1	ı
	•	044 (035.3)	10.9			ı	37°29'14.7"N 127°22'45.9"E		RNAV 1	

 $Change: Information \ of \ course/track \ for \ HD100, \ OSPOT, \ CK099.$



- 1. 6.0% CG required until FL 150 for ATC and airspace purpose.
- 2. Pilot shall use caution not to penetrate prohibited or restricted areas around airport.
- 3. Aircraft may experience delay due to airspace use coordination, traffic volume, and so on.

RADAR FIVE SIERRA DEPARTURE

TAKE OFF RWY 15L: Climb HDG 139° , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC. TAKE OFF RWY 15R: Climb HDG 138° , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC.

No radio procedure: If no radio contact with ATC, squawk 7600, and unless otherwise instructed by ATC, proceed as follows.

- to SOT via R 315 SOT for A582, B576
- to intercept Y644 to POLEG, EGOBA, KARBU for G597
- to intercept R 290 SOT to BINIL or proceed direct to HP100, HP120, BELTU to BINIL for G597 as appropriate.

Pilot shall proceed as described above prior to reaching NCN D20 or R 235 SEL or WNG D16 or SOT D19 due to airspace.

RADAR THREE UNIFORM DEPARTURE

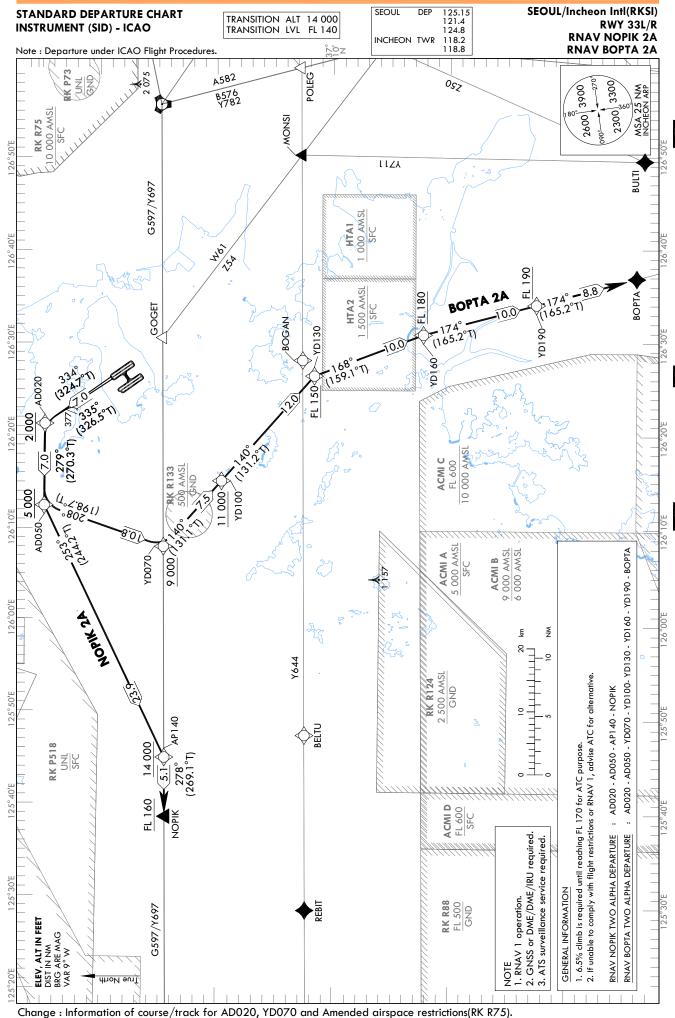
TAKE OFF RWY 16L : Climb HDG 170° , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC. TAKE OFF RWY 16R : Climb HDG 169° , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC.

No radio procedure: If no radio contact with ATC, squawk 7600, and unless otherwise instructed by ATC proceed as follows.

- to SOT via R 307 SOT for A582, B576
- to intercept Y644 to POLEG, EGOBA, KARBU for G597
- to intercept R 290 SOT to BINIL or proceed direct to HP100, HP120, BELTU to BINIL for G597 as appropriate.

Pilot shall proceed as described above prior to reaching WNG D14 or R 250 SEL or NCN D17 or R 300 SOT due to airspace.

LEFT



SEOUL/Incheon Intl(RKSI) RWY 33L/R RNAV NOPIK 2A, RNAV BOPTA 2A

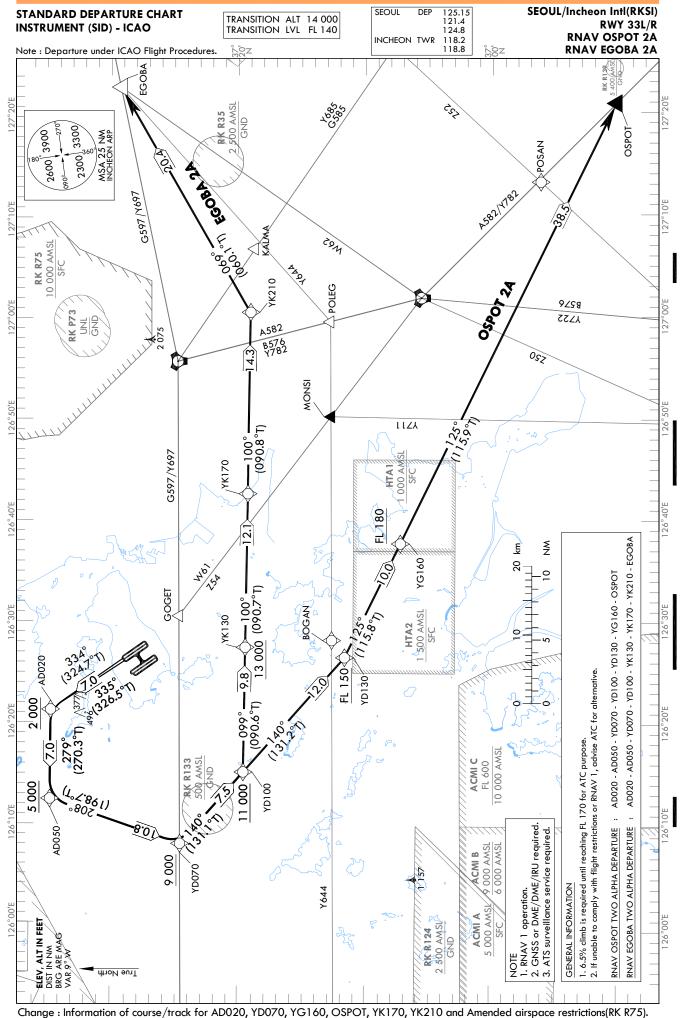
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

	Remarks				
	VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1
	VPA/ RDH				-
	Coordinates	37°34'45.1"N 126°21'19.0"E	37°34'46.7"N 126°12'30.6"E	37°24'16.9"N 125°45'21.4"E	37°24'12.0"N 125°39'05.0"E
	Speed (kt)				ı
	$\underset{(ft)}{Altitude}$	+2 000	+5 000	+14 000	+FL 160
	rse/Track Distance Turn Altitude Speed (ft) (MM) direction (ft) (kt)	7		ı	
	Distance (NM)	7.0	7.0	23.9	5.1
	Course/Track °M(°T)	33L-335(326.5) 33R-334(324.7)	279 (270.3)	253 (244.2) 23.9	278 (269.1)
	Fly- over	,			
	Waypoint Identifier	AD020	AD050	AP140	NOPIK
PIK ZA	Serial Path Waypoint Fly- Course Number Descriptor Identifier over °M	P.	TF.	TF	TF
KNAV NOPIK ZA	Serial Number	100	002	003	004

	Remarks	•			ı		1		1
	VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
	VPA/ RDH								
	Coordinates	37°34'45.1"N 126°21'19.0"E	37°34'46.7"N 1 26°1 2'30.6"E	37°24'31.4"N 126°08'09.0"E	37°19'35.0"N 126°15'14.0"E	37°11'39.7"N 126°26'32.1"E	37°02'19.6"N 126°30'58.2"E	36°52'38.3"N 126°34'10.0"E	36°44'06.4"N 126°36'58.4"E
	Speed (kt)		ı						
	Altitude (ft)	+2 000	+5 000	000 6+	+11 000	+FL 150	+FL 180	+FL 190	
	Turn direction	_	-	-			-		
	Track Distance T) (NM)	7.0	7.0	10.8	7.5	12.0	10.0	10.0	8.8
	Course/Track °M(°T)	33L-335(326.5) 33R-334(324.7)	279 (270.3)	208 (198.7)	140 (131.1)	140 (131.2)	168 (159.1)	174 (165.2)	174 (165.2)
	Fly- over	'		-					
	Path Waypoint Fly- Course/ escriptor Identifier over	AD020	AD050	VD070	YD100	YD130	YD160	YD190	BOPTA
TA 2A	Ğ	CF	11	11	11	¥	11	¥	±
RNAV BOPTA 2A	Serial Number	100	005	800	004	900	900	200	800

Change: Information of course/track for AD020, YD070.



SEOUL/Incheon Intl(RKSI) RWY 33L/R RNAV OSPOT 2A, RNAV EGOBA 2A

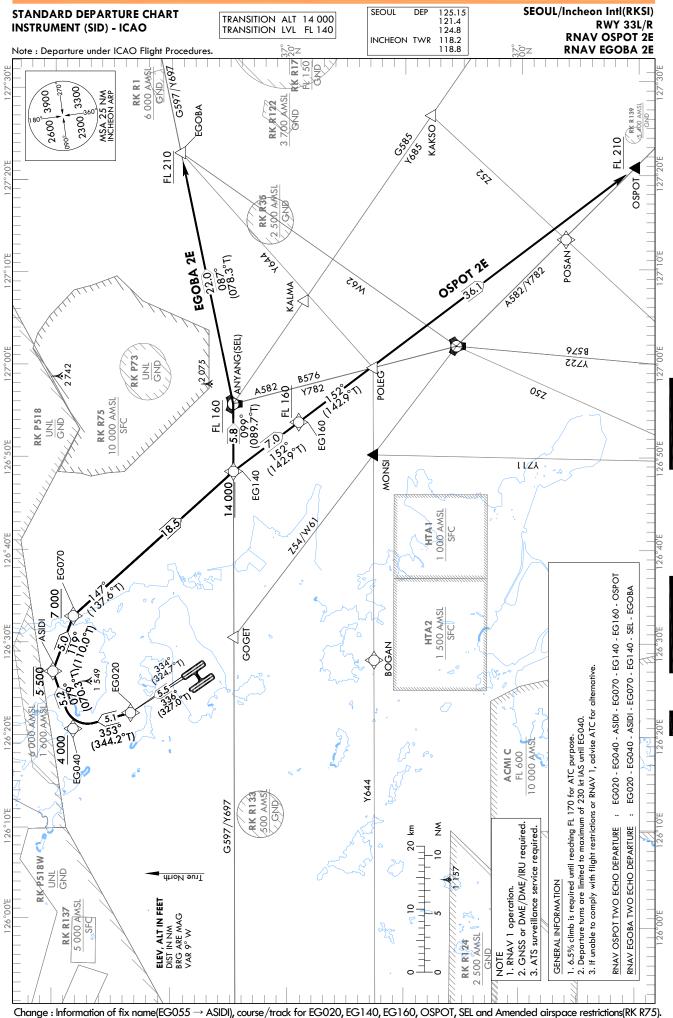
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV OSPOT 2A	POT 2A											
Serial Number	Path Descriptor	Waypoint Identifier	Fly- over	Serial Path Waypoint Fly- Course/Track Distance Uescriptor Identifier over "M(°T) (NM)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
100	CF	AD020	'	33L-335(326.5) 33R-334(324.7)	7.0	ı	+2 000		37°34'45.1"N 126°21'19.0"E		RNAV 1	•
000	¥	AD050		279 (270.3)	7.0		+5 000	ı	37°34'46.7"N 126°12'30.6"E		RNAV 1	
003	¥	YD070		208 (198.7)	10.8		000 6+		37°24'31.4"N 126°08'09.0"E		RNAV 1	
004	¥	YD100	,	140 (131.1)	7.5		+11 000	,	37°19'35.0"N 126°15'14.0"E		RNAV 1	
005	ŦŁ	YD130		140 (131.2)	12.0		+FL 150	,	37°11'39.7"N 126°26'32.1"E		RNAV 1	
900	Ŧ	YG160		125 (115.8)	10.0	1	+FL 180	,	37°07'18.5"N 126°37'44.9"E		RNAV 1	ı
200	1	OSPOT		125 (115.9)	38.5				36°50'18.1"N 127°20'54.9"E		RNAV 1	

Remarks					ı	ı		ı
Navigation specification	RNAV 1							
VPA/ RDH		•	•	ı	•	•		•
Coordinates	37°34'45.1"N 126°21'19.0"E	37°34'46.7"N 126°12'30.6"E	37°24'31.4"N 126°08'09.0"E	37°19'35.0"N 126°15'14.0"E	37°19'28.6"N 126°27'31.1"E	37°19'18.2"N 126°42'38.8"E	37°19'05.3"N 127°00'31.4"E	37°29'14.7"N 127°22'45.9"E
Speed (kt)								
Altitude Sp (ft)	+2 000	+5 000	000 6+	+11 000	+13 000			
Turn direction	1		-		-	-		-
3/Track Distance (°T) (NM)	7.0	7.0	10.8	7.5	8.6	12.1	14.3	20.4
Course/Track ^M(°T)	33L-335(326.5)	279 (270.3)	208 (198.7)	140 (131.1)	(9.060) 660	(2'060) 001	100 (090.8)	069 (060.1)
Fly- over	'		1			1	1	
Waypoint Fly- Course,	AD020	AD050	YD070	YD100	YK130	YK170	YK210	EGOBA
₽	CF	Ħ	ŦŢ	1L	ŦĪ	ŦŢ	ŦĿ	TF
Serial Path Number Descrip	100	005	003	004	900	900	200	800

Change: Information of course/track for AD020, YD070, YG160, OSPOT, YK170, YK210.



SEOUL/Incheon Intl(RKSI) RWY 33L/R RNAV OSPOT 2E, RNAV EGOBA 2E

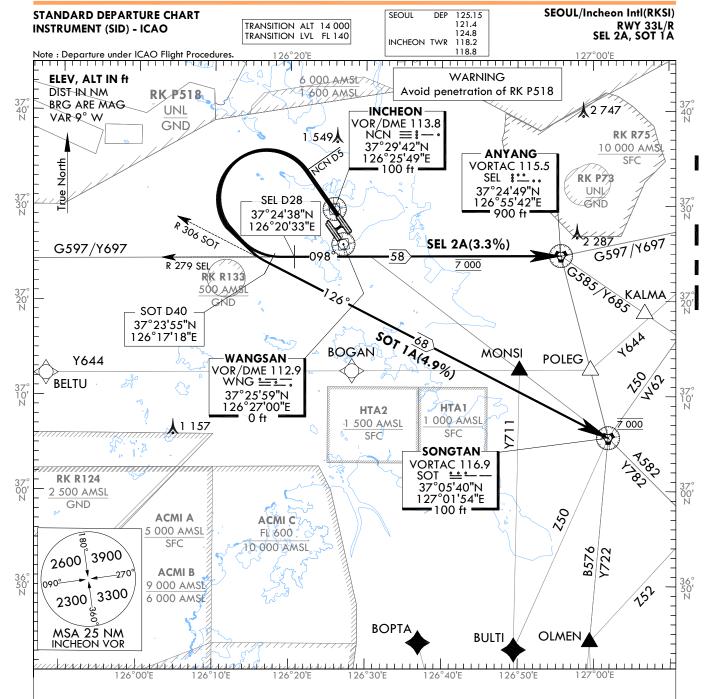
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

Remarks				•		•	
Navigation specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH							
Coordinates	37°33'31.6"N 126°22'24.5"E	37°38'27.4"N 126°20'39.1"E	37°40'12.7"N 126°26'50.5"E	37°38'29.2"N 126°32'48.6"E	37°24'47.5"N 126°48'26.5"E	37°19'11.6"N 126°53'44.6"E	36°50'18.1"N 127°20'54.9"E
Speed (kt)	-230	-230		ı			
Altitude (ft)		+4 000	-5 500	+7 000	+14 000	+FL 160	+FL 210
Turn direction	ď	1		ı			1
Distance (NM)	5.5	5.1	5.2	5.0	18.5	7.0	36.1
Course/Track °M(°T)	33L-336(327.0) 33R-334(324.7)	353 (344.2)	079 (070.3)	119 (110.0)	147 (137.6)	152 (142.9)	152 (142.9)
Fly- over							
Waypoint Identifier	EG020	EG040	ASIDI	EG070	EG140	EG160	OSPOT
Path Descriptor	CF	Ħ	TF	Ħ	Ħ	Ŧ	TF
Serial Number	100	000	003	004	900	900	200
	VPA/ Navigation RDH specification	Turn direction (ft) Altitude (ft) Speed (kt) Coordinates VPA/RDH Navigation specification R - -230 37°33'31.6"N 126°22'24.5"E - RNAV 1	Turn direction (ft) Altitude (kt) Speed (kt) Coordinates VPA/ RDH specification specification R 230 37°33'31.6"N 126°22'24.5"E - RNAV 1 - +4 000 .230 37°38'27.4"N 126°20'39.1"E - RNAV 1	Turn direction (ft) Altitude (kt) Speed (kt) Coordinates VPA/ RDH specification RDH specification approximates R - -230 37°33'31.6"N 126°22'24.5"E - RNAV 1 - +4 000 -230 37°38'27.4"N 126°20'39.1"E - RNAV 1 - -5 500 - 37°40'12.7"N 126°26'50.5"E - RNAV 1	Turn direction (ft) Altitude (ft) Speed (kt) Coordinates VPA/ specification specification R - -230 37°33'31.6"N 126°22'24.5"E - RNAV 1 - +4 000 -230 37°38'27.4"N 126°20'39.1"E - RNAV 1 - -5 500 - 37°34'0'12.7"N 126°26'50.5"E - RNAV 1 - +7 000 - 37°38'29.2"N 126°32'48.6"E - RNAV 1	Turn direction (ff) Altitude (ff) Speed (kt) Coordinates VPA/ specification RDH specification RDH specification and spe	Turn direction (ft) Altitude (ft) Speed (kt) Coordinates VPA / specification specification R - -230 37°33'31.6"N 126°22'24.5"E - RNAV 1 - +4 000 -230 37°38'27.4"N 126°20'39.1"E - RNAV 1 - -5 500 - 37°34'0'12.7"N 126°26'50.5"E - RNAV 1 - +7 000 - 37°38'29.2"N 126°32'48.6"E - RNAV 1 - +14 000 - 37°24'47.5"N 126°34'8.6"E - RNAV 1 - +FI 160 - 37°19'11.6"N 126°34'46."E - RNAV 1

٠,	RNAV EGOBA 2E											
ا کے ک	ath riptor	Serial Path Waypoint Fly-Course, Vumber Descriptor Identifier over	Fly- over	Course, M(Track Distance T) (NM)	Turn direction	Turn Altitude Speed direction (ft) (kt)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
~	F.	EG 020	,	33L-336(327.0) 33R-334(324.7)	5.5	22		-230	37°33'31.6"N 126°22'24.5"E	,	RNAV 1	ı
		EG 040		353 (344.2)	5.1		+4 000	-230	37°38'27.4"N 1 26°20'39.1"E		RNAV 1	
	TF	ASIDI		079 (070.3)	5.2	-	-5 500		37°40'12.7"N 126°26'50.5"E		RNAV 1	
<u> </u>	±	EG 070		119 (110.0)	5.0		+7 000		37°38'29.2"N 126°32'48.6"E	,	RNAV 1	•
		EG140	٠	147 (137.6)	18.5	-	+14 000		37°24'47.5"N 1 26°48'26.5"E		RNAV 1	•
	11	SEL	٠	099 (089.7)	5.8	-	+FL 160		37°24'49.0"N 126°55'42.1"E		RNAV 1	•
`	⊨ ⊭	EGOBA		087 (078.3)	22.0	ı	+FL 210		37°29'14.7"N 127°22'45.9"E		RNAV 1	

Change : Information of fix name(EG055 \rightarrow ASIDI) and course/track for EG020, EG140, EG160, OSPOT, SEL.



- 1. CG in excess of 3.3% necessary for Airspace and ATC purposes.
 - 1.1 SOT 1A minimum CG 4.9% to FL 170.
- After NCN D5, 15 degree bank angle recommended during turn for noise abatement and pilot should use caution not to penetrate proibited area. (RK P518)
- 3. If unable to comply with flight restrictions, advise ATC well before departure for alternatives.
- 4. Step climb: Due to interaction with other routes, do NOT climb above 7 000 ft unless cleared by ATC.
- 5. Pilot shall use caution not to make early or lead turn prior to reaching NCN D5.

SEL(ANYANG) TWO ALPHA DEPARTURE

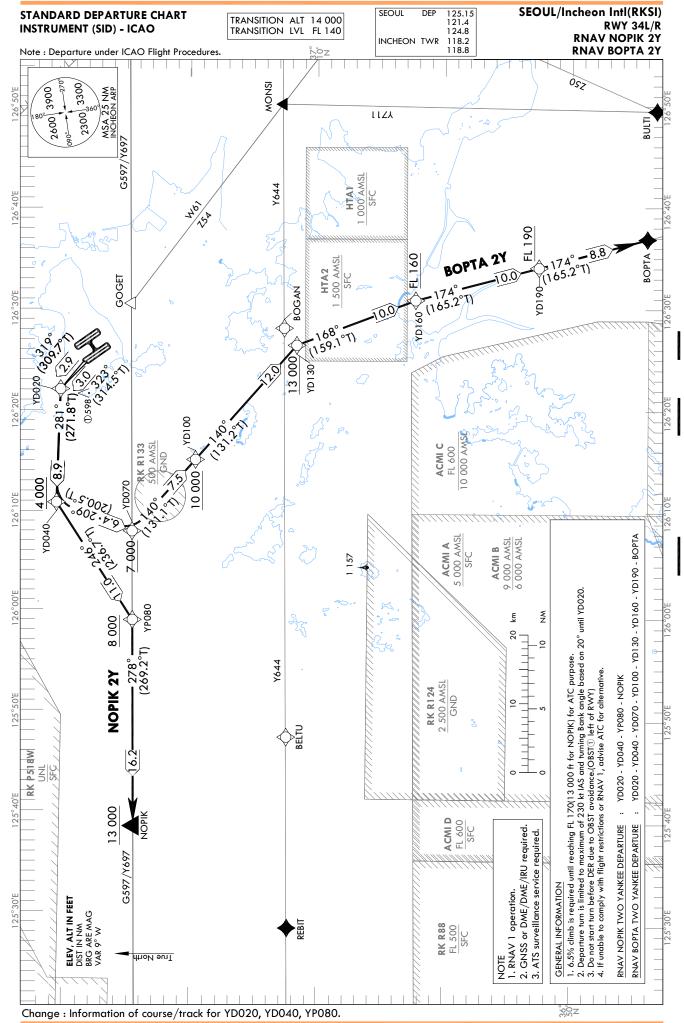
TAKE OFF RWY 33L/R: Climb straight ahead, at NCN D5 turn left to intercept R 279 SEL and cross.

R 279 SEL/D28 then proceed to SEL. Maintain 7 000 ft until instructed by ATC.

SOT(SONGTAN) ONE ALPHA DEPARTURE

TAKE OFF RWY 33L/R : Climb straight ahead, at NCN D5 turn left to intercept R 306 SOT and cross R 306 SOT/D40 then proceed to SOT. Maintain 7 000 ft until instructed by ATC.

LEFT



SEOUL/Incheon Intl(RKSI) RWY 34L/R RNAV NOPIK 2Y, RNAV BOPTA 2Y

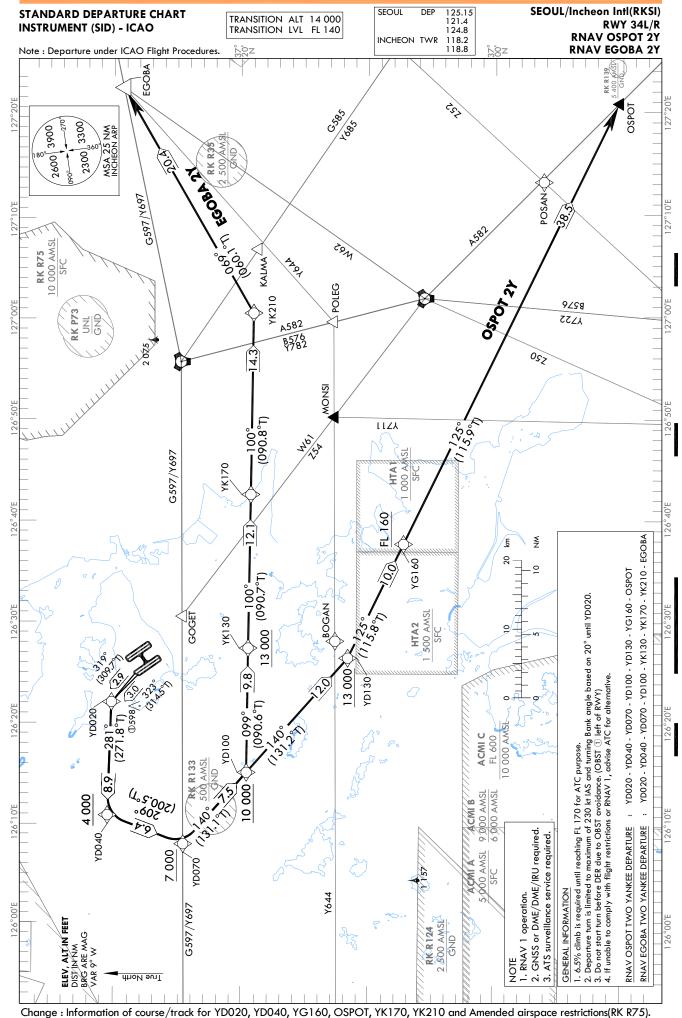
AERONAUTICAL DATA TABULATION

Tables	
Coding	
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RNAV NOPIK 2Y	ζ 2Y											
Serial lumber Do	Path escriptor	Waypoint Identifier	Fly- over	Serial Path Waypoint Fly- Course/Track Distance Descriptor Identifier over $^{\circ}$ M($^{\circ}$ T) (NM) direction (ff) (kt)	Distance (NM)	Turn	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
100	CF	YD020		34L-323(314.5) 34L-3.0 34R-319(309.7) 34R-2.9	34L-3.0 34R-2.9	ı		-230	37°30'13.3"N 126°22'07.7"E		RNAV 1	Bank angle 20°
000	Ŧ	YD040		281 (271.8)	8.9		+4 000	,	37°30'29.6"N 126°10'56.9"E		RNAV 1	•
003	¥	YP080		246 (236.7)	11.0		+8 000		37°24'26.5"N 125°59'24.4"E		RNAV 1	
004	ΤF	NOPIK		278 (269.2) 16.2	16.2		+13 000	,	37°24'1 2.0"N 1 25°39'05.0"E		RNAV 1	ı

RNAV BOPTA 2Y	TA 2Y											
Serial Number	Serial Path Waypoint Fly- Course/ Number Descriptor Identifier over "M(Waypoint Identifier	Fly- over	Course/Track °M(°T)	Track Distance T) (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
100	CF	YD020		34L-323(314.5) 34R-319(309.7)	34L-3.0 34R-2.9	П	ı	-230	37°30'13.3"N 126°22'07.7"E	,	RNAV 1	Bank angle 20°
005	¥	YD040		281 (271.8)	8.9	ı	+4 000		37°30'29.6"N 126°10'56.9"E		RNAV 1	
003	ŦL	VD070		209 (200.5)	6.4		000 Z+		37°24'31.4"N 126°08'09.0"E		RNAV 1	
004	Ŧ	YD100		140 (131.1)	7.5	ı	+10 000		37°19'35.0"N 126°15'14.0"E		RNAV 1	
900	TF.	YD130	•	140 (131.2)	12.0		+13 000		37°11'39.7"N 126°26'32.1"E		RNAV 1	,
900	TF	YD160	-	168 (159.1)	10.0	-	+FL 160		37°02'19.6"N 126°30'58.2"E		RNAV 1	
200	TF	YD190		174 (165.2)	10.0	-	+FL 190		36°52'38.3"N 126°34'10.0"E		RNAV 1	
800	¥	BOPTA		174 (165.2)	8.8	ı			36°44'06.4"N 126°36'58.4"E		RNAV 1	

Change: Information of course/track for YD020, YD040, YP080.



SEOUL/Incheon Intl(RKSI) RWY 34L/R RNAV OSPOT 2Y, RNAV EGOBA 2Y

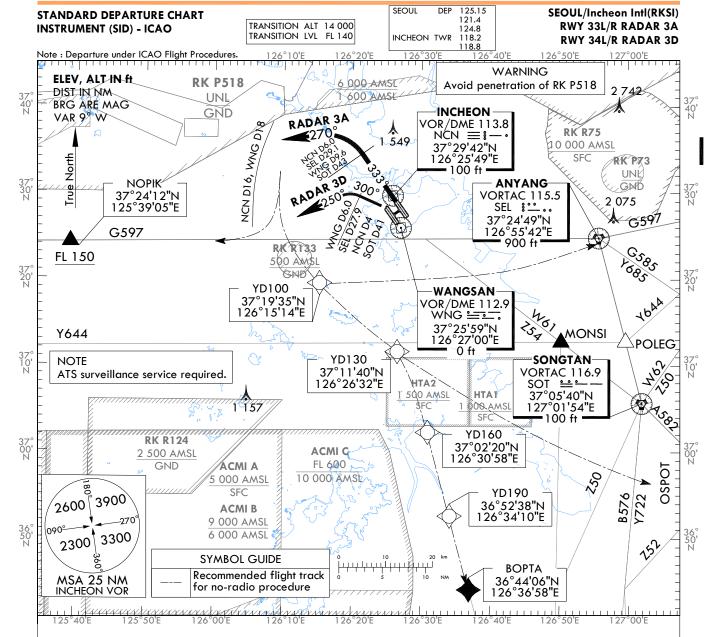
AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

7 10 10 17 1	. 7												ſ
Serial Iumber	Path Descriptor	Serial Path Waypoint Fly- Number Descriptor Identifier over	Fly- over	Waypoint Fly- Course/Track Distance Identifier over "M(°T) (NM)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks	
001	J)	YD020	-	34L-323(314.5) 34R-319(309.7)	34L-3.0 34R-2.9	7		-230	37°30'13.3"N 126°22'07.7"E		RNAV 1	Bank angle 20°	
002	ΉL	YD040		281 (271.8)	8.9		+4 000		37°30'29.6"N 1 26°1 0'56.9"E		RNAV 1	•	
003	Ħ	YD070		209 (200.5)	6.4		+7 000		37°24'31.4"N 126°08'09.0"E		RNAV 1		
004	ΉL	YD100		140 (131.1)	7.5		+10 000		37°19'35.0"N 126°15'14.0"E		RNAV 1	•	
005	11	YD130		140 (131.2)	12.0		+13 000		37°11'39.7"N 126°26'32.1"E		RNAV 1		
900	ЯL	YG160		125 (115.8)	10.0	-	+FL 160		37°07'18.5"N 126°37'44.9"E	•	RNAV 1	•	
200	1L	OSPOT	•	125 (115.9)	38.5				36°50'18.1"N 127°20'54.9"E	,	RNAV 1		

	Remarks	Bank angle 20°			ı				
	Navigation specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
	VPA/ RDH		•	•			•		
	Coordinates	37°30'13.3"N 126°22'07.7"E	37°30'29.6"N 126°10'56.9"E	37°24'31.4"N 126°08'09.0"E	37°19'35.0"N 126°15'14.0"E	37°19'28.6"N 126°27'31.1"E	37°19'18.2"N 126°42'38.8"E	37°19'05.3"N 127°00'31.4"E	37°29'14.7"N 127°22'45.9"E
Ī	Speed (kt)	-230	,						
	Altitude Sp (ft)		+4 000	000 2+	+10 000	+13 000		ı	
	Turn direction	ı	1			ı	ı		
	(°T) (NM)	34L-3.0 34R-2.9	8.9	6.4	7.5	8.6	12.1	14.3	20.4
	Course/Irack "M("T)	34L-323(314.5) 34R-319(309.7)	281 (271.8)	209 (200.5)	140 (131.1)	(9.060) 660	(2'060) 001	100 (090.8)	069 (060.1)
	Fly- over		,						
	Waypoint Fly- Course, Identifier over	YD020	YD040	YD070	YD100	YK130	YK170	YK210	EGOBA
	Path Descripto	CF	Ħ	ŦĿ	TF.	ŦĿ	ŦĿ	TF	Ŧ
NIAN EGOBA 21	Serial Number	100	000	003	004	900	900	200	800

Change: Information of course/track for YD020, YD040, YG160, OSPOT, YK170, YK210.



- 1. 6.0% CG required until FL 150 for ATC and airspace purpose.
- 2. Pilot shall use caution not to penetrate prohibited or restricted areas around airport.
- 3. Aircraft may experience delay due to airspace use coordination, traffic volume, and so on.

RADAR THREE ALPHA DEPARTURE

TAKE OFF RWY 33L/R : Climb on RWY HDG until NCN D6.0(SEL D29.1 or WNG D9.6 or SOT D43), turn left HDG 270° expect radar vector to airway.

No radio procedure : If no radio contact with ATC, squawk 7600, and unless otherwise instructed by ATC proceed as follows.

- fly south to join R 269 SEL to SEL or proceed direct to YD100 then SEL for G597
- fly south to join G597 to NOPIK
- fly south to YD100, YD130 and OSPOT for A582
- fly south to YD100, YD130, YD160, YD190 and BOPTA for BEDES via Z51.

Pilot shall remain within NCN D16 (SEL D40 or 17 NM from Airport as appropriate) during on HDG 270°.

RADAR THREE DELTA DEPARTURE

TAKE OFF RWY 34L/R: Climb HDG 300° until WNG D6.0(SEL D27.9 or NCN D4 or SOT D41),

turn left HDG 250° expect radar vector to airway. Maintain 3 000 ft until instructed by ATC. No radio procedure: If no radio contact with ATC, squawk 7600, and unless otherwise instructed by ATC proceed as follows.

- fly south to join R 269 SEL to SEL or proceed direct to YD100 then SEL for G597
- fly south to join G597 to NOPIK
- fly south to YD100, YD130 and OSPOT for A582
- fly south to YD100, YD130, YD160, YD190 and BOPTA for BEDES via Z51.

Pilot shall remain within NCN D16 (SEL D40 or 17 NM from Airport as appropriate) during on HDG 250° .

LEFT