

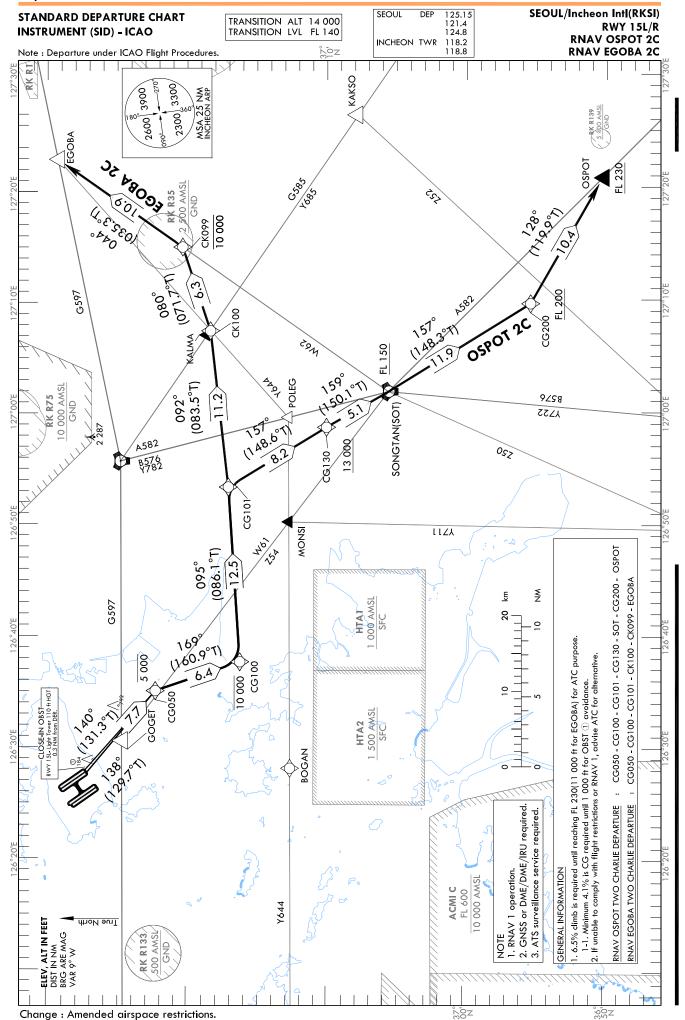
SEOUL/Incheon Intl(RKSI) RWY 15L/R RNAV BINIL 2C, RNAV BOPTA 2C

# **AERONAUTICAL DATA TABULATION**

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RNAV BINIL 2C	Ç												ı
er De	Path scriptor	Waypoint Identifier	Fly- over	Serial Path Waypoint Fly- Course/Track Distance	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks	
100	G.	CG050		15L-140(131.3) 15R-138(129.7)	2.7	ч	-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1	1	
002	¥	CG100		169 (160.9)	6.4	·	-10 000		37°16'16.3"N 126°37'43.8"E		RNAV 1		
003	Ŧ	CP100		224 (215.3)	6.6	,	-10 000 + 9 000		37°08'11.8"N 126°30'35.8"E		RNAV 1		
004	Ŧ	HP100	٠	278 (269.6)	9.7		-10 000		37°08'07.8"N 126°21'03.5"E	•	RNAV 1		
500	Ŧ	HP120		278 (269.5)	13.0		+12 000		37°07'59.2"N 126°04'48.1"E	•	RNAV 1	ı	
900	Ľ	BELTU		296 (287.9)	14.1		+FL 170		37°12'18.0"N 125°47'59.0"E		RNAV 1		
200	۳	BINIE		302 (293.2)	29.5				37°23'49.2"N 125°13'59.3"E	,	RNAV 1	1	

Į											
Wa)	point	Fly- over	Serial Path Waypoint Fly. Course/Track I. Number Descriptor Identifier over ${}^{\circ}M({}^{\circ}T)$	Distance (NM)	Track Distance Turn Altitude Speed T) direction (ft) (kt)	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
0	CF CG050	1	15L-140(131.3) 15R-138(129.7)	7.7	В	-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1	
	CG100		169 (160.9)	6.4		-10 000		37°16'16.3"N 126°37'43.8"E		RNAV 1	ı
	CD120		190 (181.1)	8.8		-13 000 +9 000		37°07'27.8"N 126°37'31.2"E		RNAV 1	
	HD130		190 (181.1)	5.7	ı	-13 000		37°01'44.4"N 126°37'23.0"E	ı	RNAV 1	ı
	HD140		188 (179.5)	8.6		+14 000		36°53'08.6"N 126°37'29.0"E	·	RNAV 1	
	BOPTA		191 (182.6)	0.6		+FL 170		36°44'06.4"N 126°36'58.4"E		RNAV 1	ı



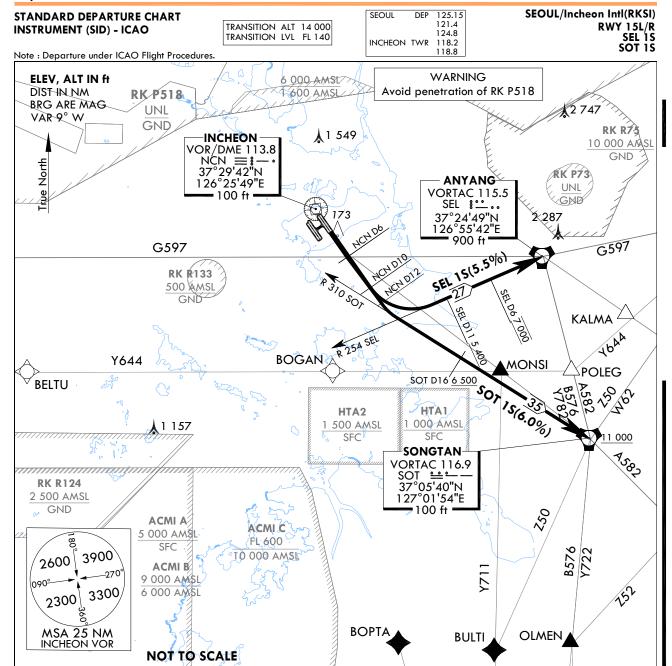
SEOUL/Incheon Intl(RKSI) RWY 15L/R RNAV OSPOT 2C, RNAV EGOBA 2C

### **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 Number Descriptor Identifier over "M("T) (NM)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH s	Navigation specification	Remarks	
100	P.	CG050		15L-140(131.3) 15R-138(129.7)	7.7	В	-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1		
005	#	CG100	٠	169 (160.9)	6.4		-10 000		37°16'16.3"N 126°37'43.8"E		RNAV 1	ı	
003	¥	CG101		095 (086.1)	12.5		1		37°17'06.9"N 126°53'22.3"E		RNAV 1	1	
004	11	CG130		157 (148.6)	8.2		+13 000		37°10'05.7"N 126°58'43.0"E		RNAV 1		
900	#	SOT	٠	159 (150.1)	5.1	1	+FL 150		37°05'39.7"N 127°01'54.0"E		RNAV 1	ı	
900	TF.	CG200		157 (148.3)	11.9	-	+FL 200	•	36°55'29.2"N 127°09'43.6"E		RNAV 1		
200	Ľ	OSPOT		128 (119.9)	10.4	1	+FL 230		36°50'18.1"N 127°20'54.9"E	,	RNAV 1	ı	

RNAV EGOBA 2C	i	ī		Track	i	,	-	-		, ,	:	
Serial Path Waypoint Fly- Course/ rack Distance Turn Altitude Alumber Descriptor Identifier over "M("T) (NM) direction (#1)	Waypoint Fly- Course/ I rack Distance Turn I dentifier over "M(°T) (NM) direction	Fly- Course/ Irack Distance Turn over "M(°T) (NM) direction	Course, Irack Distance Turn °M(°T) (NM) direction	Distance Turn (NM) direction	Turn direction		Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
CF CG050 - 15L-140(131.3) 7.7 R	CG050 - 15L-140(131.3)	15L-140(131.3) 15R-138(129.7)			œ		-5 000		37°22'18.4"N 126°35'07.0"E		RNAV 1	
TF CG100 - 169 (160.9) 6.4 -	- 169 (160.9)	- 169 (160.9)			•		-10 000		37°16'16.3"N 126°37'43.8"E		RNAV 1	
TF CG101 - 095 (086.1) 12.5 -	- 095 (086.1)				-				37°17'06.9"N 126°53'22.3"E		RNAV 1	-
TF CK100 - 092 (083.5) 11.2 -	- 092 (083.5)	- 092 (083.5)			-		-		37°18'22.7"N 127°07'21.4"E	-	RNAV 1	-
TF CK099 - 080 (071.7) 6.3 -	- 080 (071.7)				•		-10 000		37°20'21.2"N 127°14'52.0"E		RNAV 1	
TF EGOBA - 044 (035.3) 10.9 -	- 044 (035.3)	- 044 (035.3)					ı		37°29'14.7"N 127°22'45.9"E		RNAV 1	ı



- 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 153 NCN, thence...

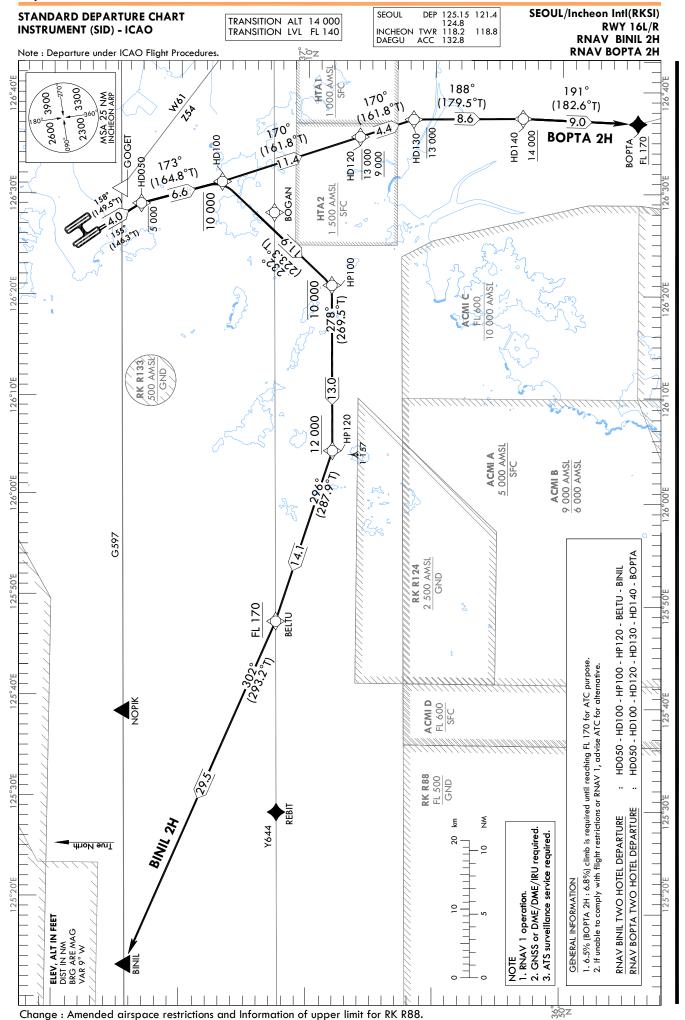
TAKE OFF RWY 15R: Climb straight ahead, at NCN D6 turn left onto R 153 NCN, thence...
at NCN D10 turn left to intercept R 254 SEL and proceed to SEL, fly by SEL.
Cross SEL D11 at or above 5 400 ft and SEL D6 at 7 000 ft until instructed by ATC.

# SOT(SONGTAN) ONE SIERRA DEPARTURE

TAKE OFF RWY 15L: Climb on R 153 NCN, thence...

TAKE OFF RWY 15R: Climb straight ahead, at NCN D6 turn left onto R 153 NCN, thence...
at NCN D12 turn left to intercept R 310 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 2H, RNAV BOPTA 2H

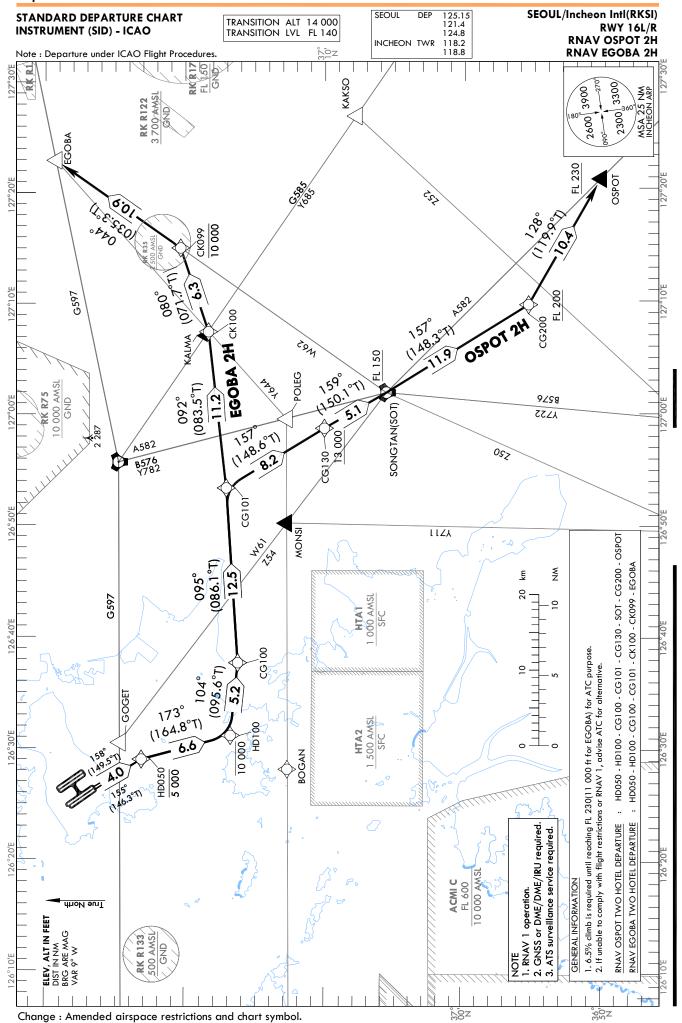
### **AERONAUTICAL DATA TABULATION**

Standard Instrument Departure Procedure Coding Tables

Remarks					1	
VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH	-	-				-
Coordinates	37°23'08.6"N 126°29'03.7"E	37°16'47.0"N 126°31'13.0"E	37°08'07.8"N 126°21'03.5"E	37°07'59.2"N 126°04'48.1"E	37°12'18.0"N 125°47'59.0"E	37°23'49.2"N 125°13'59.3"E
Speed (kt)		-				
Altitude (ft)	-5 000	-10 000	-10 000	+12 000	+FL 170	
urse/Track Distance Turn Altitude Speed °M(°T) (NM) direction (ft) (kt)	ď			ı		
Distance (NM)	4.0	9.9	11.9	13.0	14.1	29.5
Course/Track °M(°T)	16L-158(149.5) 16R-155(146.3)	173 (164.8)	232 (223.3)	278 (269.5) 13.0	296 (287.9)	302 (293.2)
Fly- over						
Waypoint Fly- Cour	HD050	HD100	HP100	HP120	BELTU	BINIL
Serial Path Waypoint Number Descriptor Identifier	Ъ	11	¥	¥	¥	¥
Serial Number	100	005	003	004	900	900

Γ							
	Remarks	•		•		ı	ı
	VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
, 14,	RDH RDH		,				
	Coordinates	37°23'08.6"N 126°29'03.7"E	37°16'47.0"N 126°31'13.0"E	37°05'56.6"N 126°35'39.9"E	37°01'44.4"N 126°37'23.0"E	36°53'08.6"N 126°37'29.0"E	36°44'06.4"N 126°36'58.4"E
	Speed (kt)		ı				
	Altitude (ft)	-5 000	-10 000	-13 000 +9 000	-13 000	+14 000	+FL 170
۲	direction (ft) (kt)	R					ı
	T) (NM)	4.0	9.9	11.4	4.4	8.6	0.6
Jours / Track	°M(°T)	16L-158(149.5) 16R-155(146.3)	- 173 (164.8)	170 (161.8)	170 (161.8)	188 (179.5)	191 (182.6)
ī	rly- over	-		-			
	Waypoint Identifier	050QH	HD100	HD120	HD130	HD140	BOPTA
	Serial Path Waypoint Fly- Course/ Jumber Descriptor Identifier Over "M("	CF	¥	TF	¥	¥	¥
	Number	100	005	003	004	900	900

RNAV BINIL 2H



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

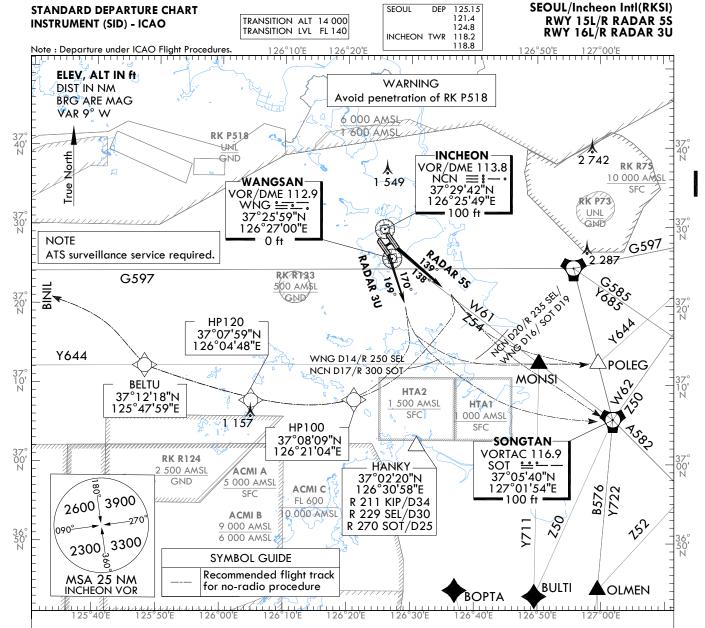
### **AERONAUTICAL DATA TABULATION**

Standard Instrument Departure Procedure Coding Tables

Remarks	-	•	•					
VPA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH								
Coordinates	37°23'08.6"N 126°29'03.7"E	37°16'47.0"N 126°31'13.0"E	37°16'16.3"N 126°37'43.8"E	37°17'06.9"N 126°53'22.3"E	37°10'05.7"N 126°58'43.0"E	37°05'39.7"N 127°01'54.0"E	36°55'29.2"N 127°09'43.6"E	36°50'18.1"N 127°20'54.9"E
Speed (kt)								
Altitude Sp (ft)	-5 000	-10 000			+13 000	+FL 150	+FL 200	+FL 230
Turn direction	В				ı		ı	ı
/Track Distance °T) (NM)	4.0	9.9	5.2	12.5	8.2	5.1	11.9	10.4
Course/Track °M(°T)	16L-158(149.5) 16R-155(146.3)	173 (164.8)	104 (095.6)	095 (086.1)	157 (148.6)	159 (150.1)	157 (148.3)	128 (119.9)
Fly- over								
Waypoint Identifier	HD050	001 GH	CG100	CG101	CG130	SOT	CG200	OSPOT
Serial Path Waypoint Fly- Course/ Number Descriptor Identifier over "M(	CF	ŦĿ	#	11	ŦŁ	#	11	11
Serial Number	100	002	003	004	900	900	200	800

RNAV EGOBA 2H											
h otor Iden	ď.	oint Fly	Serial Path Waypoint Fly- Course/Track Number Descriptor Identifier over "M("T)	Track Distance T) (NM)	Turn direction	Altitude Speed (kt)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
GF	HD050	, C	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	•
	HD100	- C	173 (164.8)	9.9		-10 000		37°16'47.0"N 126°31'13.0"E		RNAV 1	ı
TF	CG100	- 0	104 (095.6)	5.2	-	,		37°16'16.3"N 126°37'43.8"E	-	RNAV 1	•
1	CG101		- 095 (086.1)	12.5	ı			37°17'06.9"N 126°53'22.3"E		RNAV 1	ı
#	CK100	- C	092 (083.5)	11.2		1	,	37°18'22.7"N 127°07'21.4"E		RNAV 1	ı
	CK099	6	080 (071.7)	6.3		-10 000		37°20'21.2"N 127°14'52.0"E		RNAV 1	
ı E	EGOBA	'	044 (035.3)	10.9				37°29'1 4.7"N 1 27°22'45.9"E		RNAV 1	

RNAV OSPOT 2H



- 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  $139^{\circ}$ , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC. TAKE OFF RWY 15R: Climb HDG  $138^{\circ}$ , 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

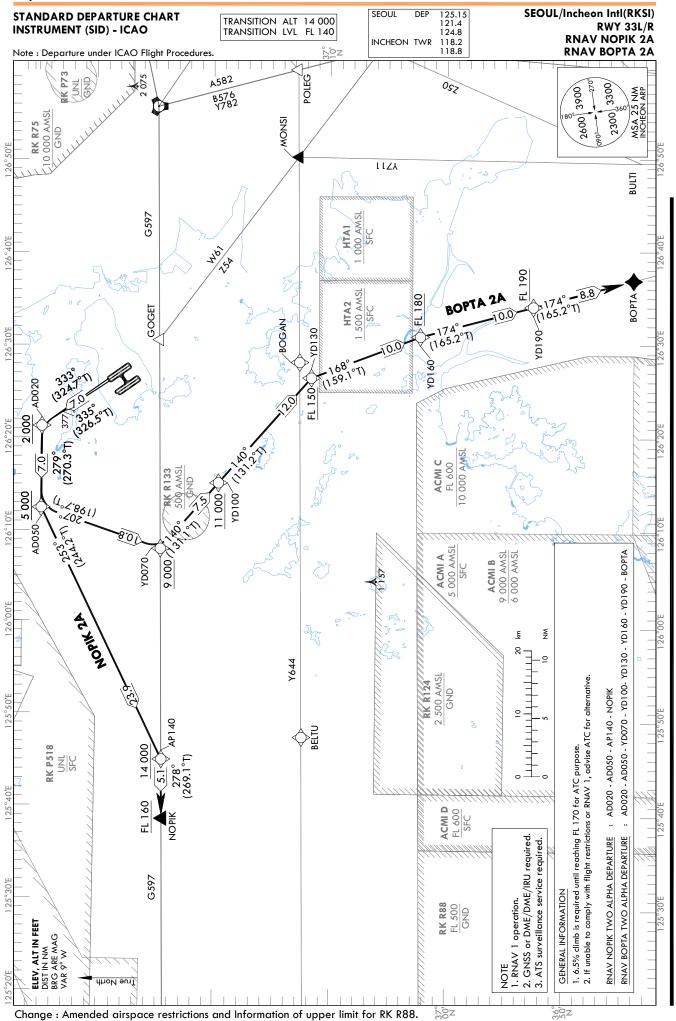
TAKE OFF RWY 16L : Climb HDG  $170^{\circ}$ , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC. TAKE OFF RWY 16R : Climb HDG  $169^{\circ}$ , expect radar vector to airway. Maintain 7 000 ft until instructed by ATC.

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



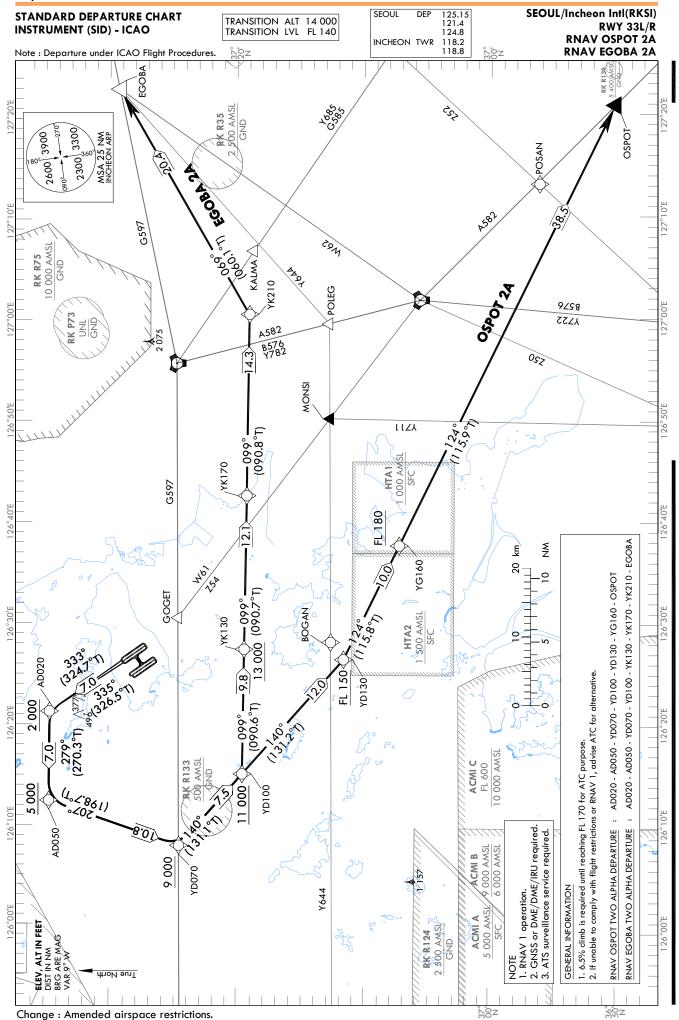
SEOUL/Incheon Intl(RKSI) RWY 33L/R RNAV NOPIK 2A, RNAV BOPTA 2A

# **AERONAUTICAL DATA TABULATION**

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RNAV NOPIK 2A	PIK 2A											
Serial Number	Serial Path Waypoint Fly- Course/ Number Descriptor Identifier over °M(°	Waypoint Identifier	Fly- over	Course/Track °M(°T)	Distance (NM)	$^{\prime}$ Track Distance Turn Altitude Speed $^{\prime}$ Track (11) (NM) direction (11)	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	/PA/ Navigation RDH specification	Remarks
100	P.	AD020		33L-335(326.5) 7.0	7.0	7	+2 000		37°34'45.1"N 126°21'19.0"E		RNAV 1	·
005	ΤF	AD050		279 (270.3) 7.0	7.0		+5 000		37°34'46.7"N 126°12'30.6"E		RNAV 1	·
003	TF	AP140		253 (244.2) 23.9	23.9		+14 000		37°24'16.9"N 125°45'21.4"E		RNAV 1	
004	TF	NOPIK		278 (269.1) 5.1	5.1		+FL 160		37°24'12.0"N 125°39'05.0"E	-	RNAV 1	•

7 70 70	٦ ، ١٠٠٠	٦ ، ١٠٠٠					-	-		,		
Serial Path Waypoint Fly- Course/ Ir Number Descriptor Identifier over M(°T)	Waypoint Fly- Course, I Identifier over M(T	Fly- Course/ I over M(T	Course/ I "M("T	rack )	, Irack Distance °T) (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
CF AD020 - 33L-335(32	33L-335( 33R-333(	33L-335(32 33R-333(32	33L-335(32 33R-333(32	326.5) 324.7)	7.0	П	+2 000		37°34'45.1"N 126°21'19.0"E		RNAV 1	•
TF AD050 - 279 (270.3)		- 279 (270.:	279 (270.:	3)	7.0		+5 000		37°34'46.7"N 126°12'30.6"E		RNAV 1	
TF YD070 - 207 (198.7)					10.8		000 6+		37°24'31.4"N 126°08'09.0"E		RNAV 1	•
TF YD100 - 140 (131.1)					7.5	-	+11 000		37°19'35.0"N 126°15'14.0"E		RNAV 1	•
TF YD130 - 140 (131.2)		- 140 (131.2)	140 (131.2)		12.0	-	+FL 150		37°11'39.7"N 126°26'32.1"E		RNAV 1	
TF YD160 - 168 (159.1)	- 168 (1	- 168 (1	168 (159.1)		10.0	-	+FL 180		37°02'19.6"N 126°30'58.2"E	-	RNAV 1	
TF YD190 - 174 (165.2)	- 174 (1				10.0	-	+FL 190		36°52'38.3"N 126°34'10.0"E	-	RNAV 1	
TF BOPTA - 174 (165.2)	- 174 (1				8.8		,		36°44'06.4"N 126°36'58.4"E		RNAV 1	



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

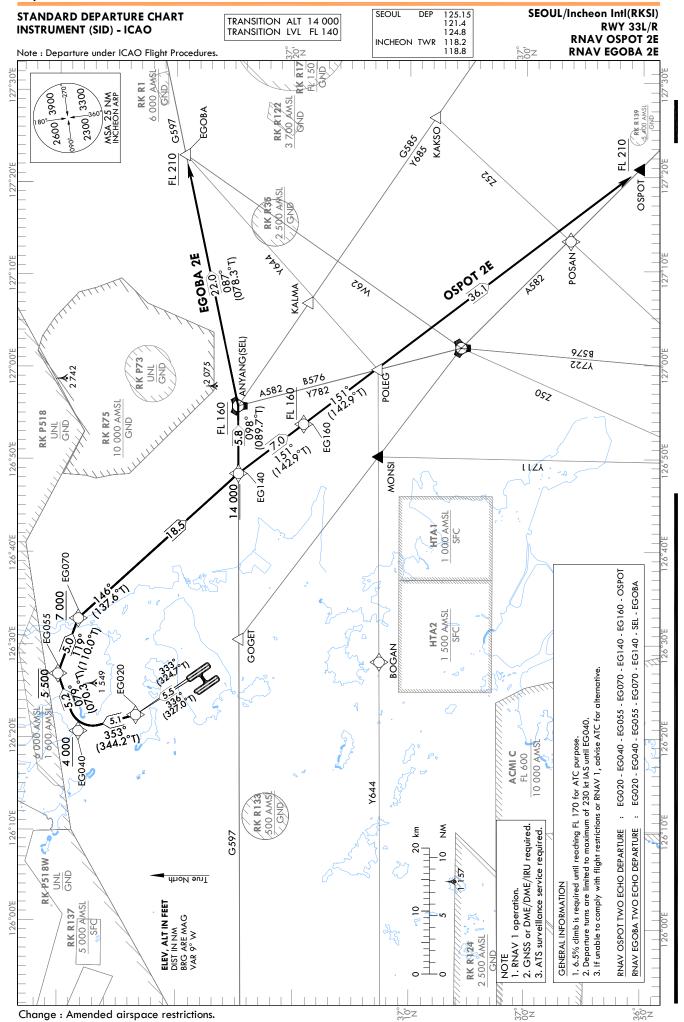
# **AERONAUTICAL DATA TABULATION**

Standard Instrument Departure Procedure Coding Tables

Distance Turn Altitude Speed (kt) 7.0 L +2 000 - 7.0 - +5 000 - 10.8 - +11 000 - 12.0 - +FL 180 - 10.0 - +FL 180 -	
Altitude Speed Coordinates  +2 000 - 37°34'45.1"N 126°21'19.0"E  +5 000 - 37°34'46.7"N 126°12'30.6"E  +9 000 - 37°24'31.4"N 126°08'09.0"E  +11 000 - 37°19'35.0"N 126°15'14.0"E  +FL 150 - 37°11'39.7"N 126°37'44.9"E  +FL 180 - 37°07'18.5"N 126°37'44.9"E	
Altitude Speed Coordinates  +2 000 - 37°34'45.1"N 126°21'19.0"E  +5 000 - 37°34'46.7"N 126°12'30.6"E  +9 000 - 37°24'31.4"N 126°08'09.0"E  +11 000 - 37°19'35.0"N 126°15'14.0"E  +FL 150 - 37°11'39.7"N 126°37'44.9"E  +FL 180 - 37°07'18.5"N 126°37'44.9"E	RNAV 1
Altitude Speed (tt) (tt) (kt) +2 000 - +5 000 - +9 000 - +11 000 - +FL 150 - +FL 180	
Altitude (ff) +2 000 +5 000 +9 000 +11 000 +FL 150 +FL 180 +FL 180	36°50'18.1"N 127°20'54.9"E
Altitude (ff) +2 000 +5 000 +9 000 +11 000 +FL 150 +FL 180 +FL 180	,
www.yrse/Track Distance Turn (NM) direction (NM) 238(324.7) C 0 L C (270.3) 7.0 C C C (198.7) 10.8 C C C (131.1) 7.5 C C C C C C C C C C C C C C C C C C C	
"wrse/Track Distance" (NM) "M("T) (NM) "333(326.5) 7.0 "9 (270.3) 7.0 "7 (198.7) 10.8 40 (131.1) 7.5 40 (131.2) 12.0	
".mrse/Track" "M("T) "335(326.5) "336(324.7) "79 (270.3) "79 (198.7) "40 (131.1) "40 (131.2) "524 (115.8)	38.5
	124 (115.9)
Over	
Waypoint Identifier AD020 AD050 YD070 YD100 YD130	OSPOT
Descriptor CF TF TF	¥
Number 000 000 000 000 000 000 000 000 000 0	200

si si								
Remarks						•	•	
Navigation 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 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 (ft)	+2 000	+5 000	000 6+	+11 000	+13 000			,
Turn	7	ı		ı	ı	-		ı
Track Distance T) (NM)	7.0	7.0	10.8	7.5	9.8	12.1	14.3	20.4
Course, M(	33L-335(326.5) 33R-333(324.7)	279 (270.3)	207 (198.7)	140 (131.1)	(9.060) 660	(2'060) 660	099 (090.8)	069 (060.1)
Fly- over	1							
Waypoint Fly- Course/ Identifier over	AD020	AD050	YD070	YD100	YK130	YK170	YK210	EGOBA
Ď	P.	ŦF	1	11	TF	ŦĪ	ŦĪ	Ŧ
Serial Path	100	002	003	004	900	900	200	800

RNAV OSPOT 2A



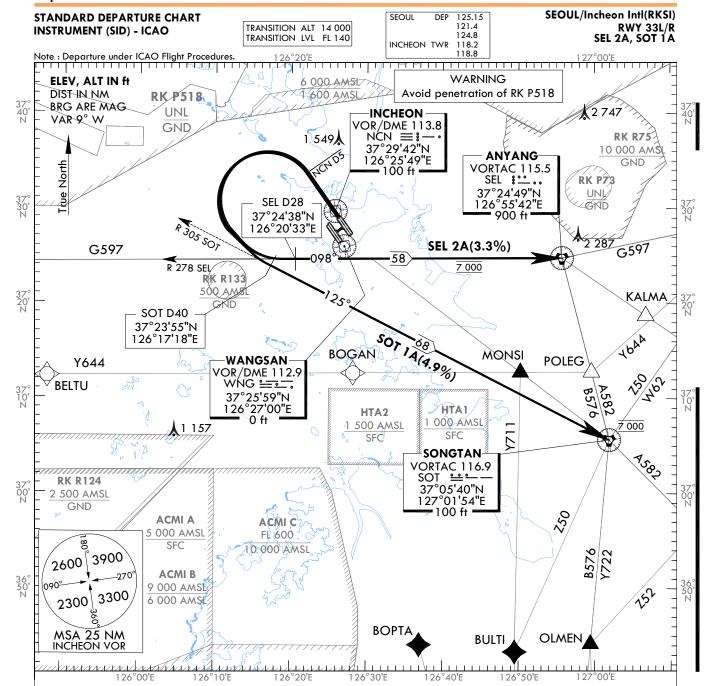
SEOUL/Incheon Intl(RKSI) RWY 33L/R RNAV OSPOT 2E, RNAV EGOBA 2E

### **AERONAUTICAL DATA TABULATION**

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Remarks			•	•		•	
Navigation specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH							ı
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					
Altitude (ft)		+4 000	-5 500	+7 000	+14 000	+FL 160	+FL 210
Turn direction	~						
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-333(324.7)	353 (344.2)	079 (070.3)	119 (110.0)	146 (137.6)	151 (142.9)	151 (142.9)
Fly- over	1						
Waypoint Identifier	EG020	EG040	EG055	EG070	EG140	EG160	OSPOT
Path Descriptor	G.	Ŧ	1	Ŧ	Ŧ	Ŧ	¥
Serial Number	100	002	003	004	005	900	200
	Course/TrackDistanceTurnAltitudeSpeed (ft)Speed (kt)CoordinatesVPA/ RDHNavigation	Path   Waypoint Fly-   Course/Track   Distance   Turn   Altitude   Speed   Coordinates   PA   RDH   Specification   RDH   Specification   RDH   Specification   RDH   Specification   Sar. 336(327.0)   S.5   R   - 230   37°33'31.6"N 126°22'24.5"E   - RNAV 1	Course/Track Distance NM (NM)         Turn (NM)         Altitude direction         Speed (kt)         Coordinates         VPA/ RDH         Navigation specification           38.33(327.0)         3.5         R         -         -230         37°33'31.6"N 126'22'24.5"E         -         RNAV 1           38.33(324.7)         5.1         -         +4 000         -230         37°38'27.4"N 126'20'39.1"E         -         RNAV 1	Course/Track Distance NMO(T)         Turn (NMO)         Altitude direction         Speed (kt)         Coordinates         VPA/ RDH specification (kt)         Navigation specification (kt)           31-336(327.0)         5.5         R         -         -230         37°33'31.6"N 126°22'34.5"E         -         RNAV 1           353 (344.2)         5.1         -         +4 000         -230         37°38'27.4"N 126°20'39.1"E         -         RNAV 1           007 (070.3)         5.2         -         -5 500         -         37°40'12.7"N 126'26'50.5"E         -         RNAV 1	Ovusse/Track Distance (NAM)         Turn (H)         Altitude (ft)         Speed (kt)         Coordinates         VPA/ specification           31-336(327.0) (31-33/32.4.7)         5.5         R         -         -230         37°33'31.6"N 126°20'39.1"E         -         RNAV 1           35.3 (344.2)         5.1         -         +4 000         -230         37°38'27.4"N 126°20'39.1"E         -         RNAV 1           079 (070.3)         5.2         -         -5 500         -         37°40'12.7"N 126°26'50.5"E         -         RNAV 1           119 (110.0)         5.0         -         +7 000         -         37°38'29.2"N 126°32'48.6"E         -         RNAV 1	Owtse/Track Distance of (NM)         Turn (NM)         Altitude direction         Speed (kt)         Coordinates         VPA/ Specification           31-336(327.0) (31-32)         3.5         R         -         -230         37°33'3.6"N 126°224.5"E         -         RNAV 1           35.3 (344.2) (3.7)         5.1         -         +4 000         -230         37°38'27.4"N 126°20'39.1"E         -         RNAV 1           079 (070.3) (07	Course/Track Distance (NAM)         Turn (H)         Altitude (E)         Speed (E)         Coordinates         VPA/Specification           31-336(327.0) (31-32.0)         5.5         R         -         -230         37°33'31.6"N 126°20'39.1"E         -         RNAV 1           35.3 (344.2)         5.1         -         +4 000         -230         37°38'27.4"N 126°20'39.1"E         -         RNAV 1           0079 (070.3)         5.2         -         -5 500         -         37°40'12.7"N 126°26'50.5"E         -         RNAV 1           119 (110.0)         5.0         -         +7 000         -         37°38'29.2"N 126°48'26.5"E         -         RNAV 1           146 (137.6)         18.5         -         +14 000         -         37°2447.5"N 126°28'32'48.6"E         -         RNAV 1           145 (132.6)         18.5         -         +14 000         -         37°2447.5"N 126°28'32'48.6"E         -         RNAV 1

	Remarks	1						
	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°24'49.0"N 126°55'42.1"E	37°29'14.7"N 127°22'45.9"E
	Speed (kt)	-230	-230					
	Altitude (ft)		+4 000	-5 500	+7 000	+14 000	+FL 160	+FL 210
	Turn direction	ď						
	Track Distance (NM)	5.5	5.1	5.2	5.0	18.5	5.8	22.0
	Course/Track ^M(°T)	33L-336(327.0) 33R-333(324.7)	353 (344.2)	079 (070.3)	119 (110.0)	146 (137.6)	098 (089.7)	(8.87) (80
	Fly- over	'						
	Waypoint Identifier	EG020	EG040	EG055	EG070	EG140	SEL	EGOBA
JBA 2E	Serial Path Waypoint Fly- Course/ Jumber Descriptor Identifier over "M(	P.	Ŧ	Ħ	Ħ	Ħ	Ħ	ΤF
RNAV EGOBA 2E	Serial Number	100	002	003	004	005	900	200



- 1. CG in excess of 3.3% necessary for Airspace and ATC purposes.
  - 1.1 SOT 1A minimum CG 4.9% to FL 170.
- 2. 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**

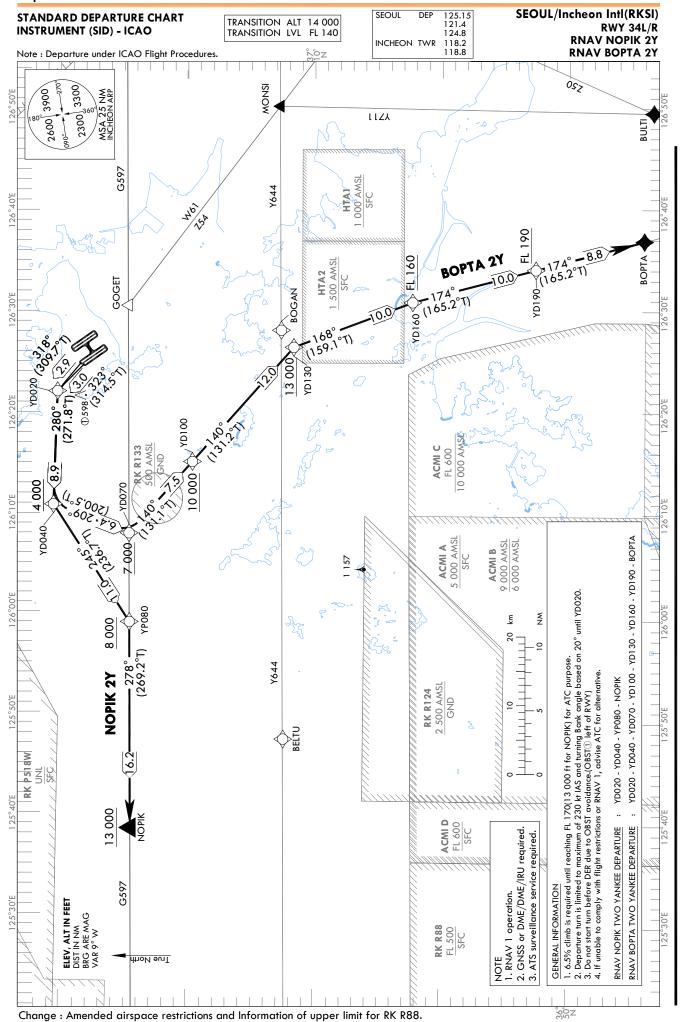
TAKE OFF RWY 33L/R: Climb straight ahead, at NCN D5 turn left to intercept R 278 SEL and cross.

R 278 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 305 SOT and cross R 305 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

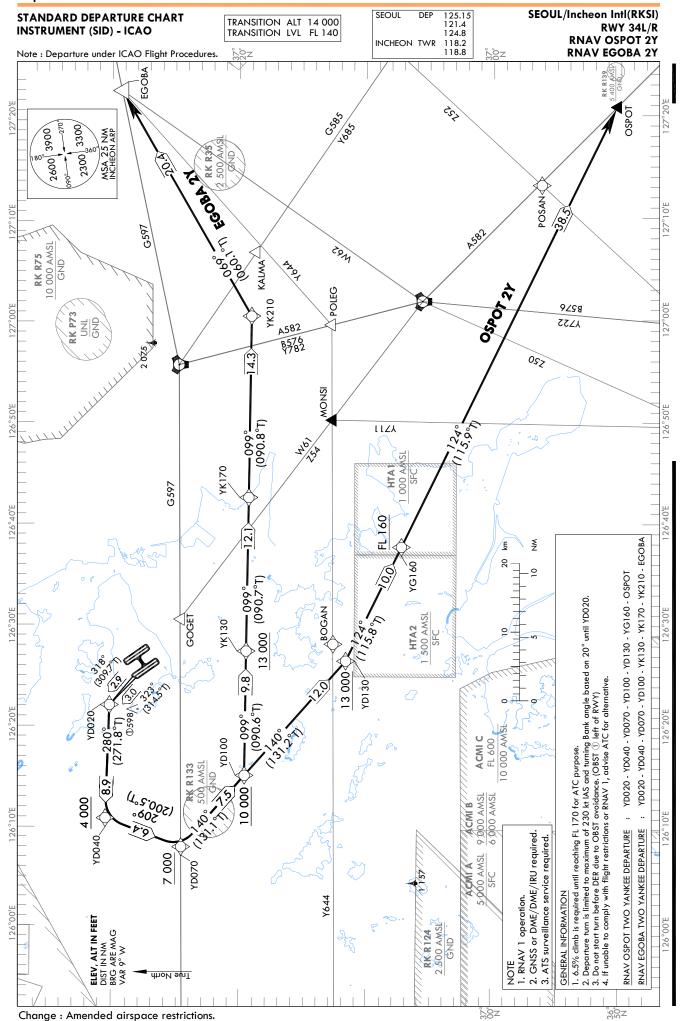
### **AERONAUTICAL DATA TABULATION**

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OFFICE OF CIVIL AVIATION

	Remarks	Bank angle 20°			
	/PA/ Navigation RDH specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1
	VPA/ RDH	ı			
	Coordinates	37°30'13.3"N 126°22'07.7"E	37°30'29.6"N 126°10'56.9"E	37°24'26.5"N 125°59'24.4"E	37°24'12.0"N 125°39'05.0"E
	Speed (kt)	-230			
	Altitude (ft)		+4 000	+8 000	+13 000
	Track Distance Turn Altitude Speed To (In) direction (ft) (kt)	7	-		-
	Distance (NM)	34L-3.0 34R-2.9	8.9	11.0	16.2
	Course/Track °M(°T)	34L-323(314.5) 34L-3.0 34R-318(309.7) 34R-2.9	- 280 (271.8)	245 (236.7) 11.0	- 278 (269.2)
	Fly- (	1			
	Waypoint Identifier	YD020	YD040	YP080	MOPIK
7IN 21	Serial Path Waypoint Fly- Course/1 Number Descriptor Identifier over M(°1	P.	ŦĿ	TF	ŦĪ
KINAV INOPIN ZI	Serial Number	100	002	003	004

RNAV BOPTA 2Y	_											
Serial Path Number Descript	iptor 1	Serial Path Waypoint Fly- Course/'	Fly- over	Course/Track °M(°T)	Track Distance T) (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks
001 C	Ъ	YD020		34L-323(314.5) 34R-318(309.7)	34L-3.0 34R-2.9	٦		-230	37°30'13.3"N 126°22'07.7"E		RNAV 1	Bank angle 20°
002	±	YD040		280 (271.8)	8.9		+4 000		37°30'29.6"N 126°10'56.9"E		RNAV 1	
т 800	1	YD070		209 (200.5)	6.4	-	000 2+		37°24'31.4"N 126°08'09.0"E		RNAV 1	
004 TI	1	YD100		140 (131.1)	7.5	-	+10 000		37°19'35.0"N 126°15'14.0"E		RNAV 1	
T 200	±	YD130		140 (131.2)	12.0		+13 000	1	37°11'39.7"N 126°26'32.1"E		RNAV 1	
D06	±	YD160		168 (159.1)	10.0		+FL 160		37°02'19.6"N 126°30'58.2"E		RNAV 1	
T 200	1	YD190		174 (165.2)	10.0	-	+FL 190		36°52'38.3"N 126°34'10.0"E		RNAV 1	
1 800	±	BOPTA		174 (165.2)	8.8				36°44'06,4"N 126°36'58.4"E		RNAV 1	



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

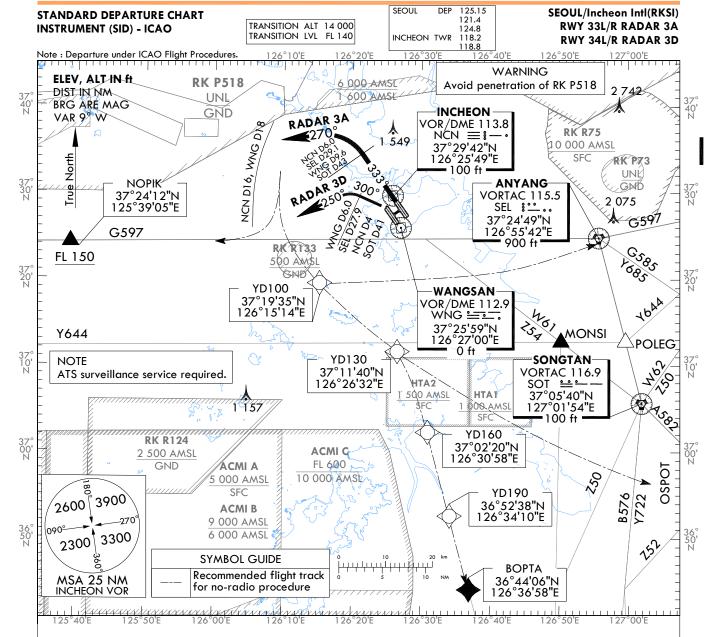
# **AERONAUTICAL DATA TABULATION**

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Remarks	Bank angle $20^\circ$						
Navigation specification	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°11'39.7"N 126°26'32.1"E	37°07'18.5"N 126°37'44.9"E	36°50'18.1"N 127°20'54.9"E
Speed (kt)	-230				ı		
Altitude (ft)		+4 000	+7 000	+10 000	+13 000	+FL 160	
Turn direction	7			ı			
Distance (NM)	34L-3.0 34R-2.9	8.9	6.4	7.5	12.0	10.0	38.5
Serial Path Waypoint Fly. Course/Track Distance Turn Number Descriptor Identifier over "M("T) (NM) direction	34L-323(314.5) 34L-3.0 34R-318(309.7) 34R-2.9	280 (271.8)	209 (200.5)	140 (131.1)	140 (131.2)	124 (115.8)	124 (115.9)
Fly- over	,						
Waypoint Identifier	YD020	YD040	YD070	YD100	YD130	YG160	OSPOT
Path Descriptor	GF	Ŧ	¥	ΤF	Ŧ	Ŧ	Ŧ
Serial Number	100	003	003	004	900	900	200

Remarks	Bank angle 20°							
Navigation specification	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1	RNAV 1
VPA/ RDH				ı		•		
Coordinates	37°30'13.3"N 126°22'07.7"E	37°30'29.6"N 1 26°1 0'56.9"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
Speed (kt)	-230							
Altitude (ft)		+4 000	+7 000	+10 000	+13 000			
Turn direction	7	ı				-	-	-
Track Distance T) (NM)	34L-3.0 34R-2.9	8.9	6.4	7.5	9.8	12.1	14.3	20.4
	34L-323(314.5) 34R-318(309.7)	280 (271.8)	209 (200.5)	140 (131.1)	(9:060) 660	(2'060) 660	(8'060) 660	069 (060.1)
Fly- over	1					-		
Path Waypoint Fly- Course, Descriptor Identifier over "M(	YD020	YD040	YD070	YD100	YK130	YK170	YK210	EGOBA
Serial Path Waypoint Fly- Number Descriptor Identifier over	P.	TF	Ŧ	TF.	Ħ	TF	TF	TF
Serial Path Number Descrip	100	002	003	004	005	900	200	800

RNAV OSPOT 2Y



- 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  $250^\circ$ .

LEFT