

# WSSS

Singapore Changi Intl. Airport

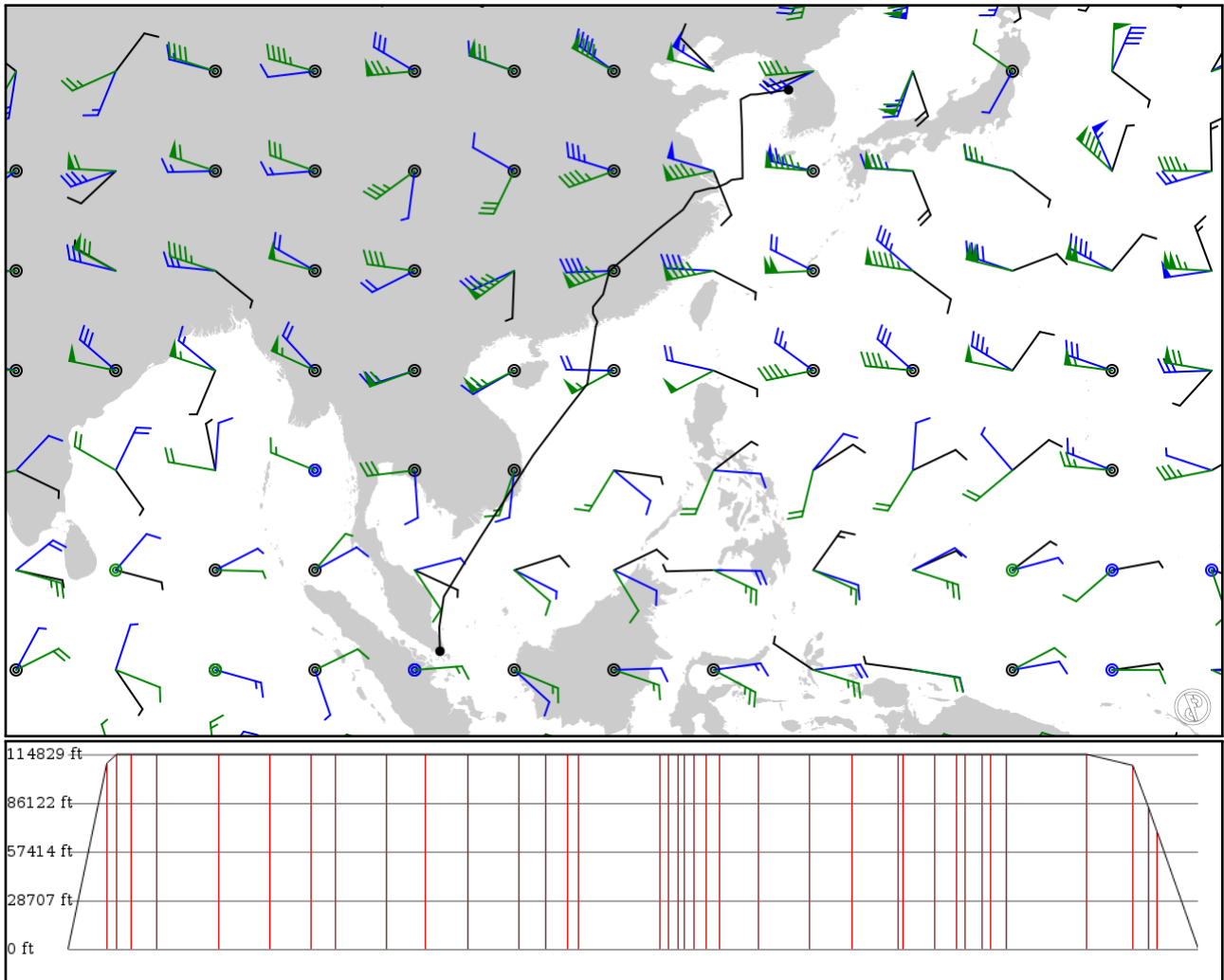
# RKSI

Incheon Intl

2024/05/28 2243Z

WSSS ROBMO L642 CH A461 SHL NOMAR W19 KOW A599 JTN A593 PUD W11 PINOT G455 SURAK A326 MUDAL A591  
AGAVO G597 GONAV RKSI

2707.35 nm / 5014.01 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 40000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes

- Use high airways: yes

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
WSSS APT	-	1.35192 103.99560	0 ft 0 m	-	Singapore Changi Intl. Airport
ROBMO FIX	-	2.91111 103.95000	33,400 ft 10,180 m	93	-
EGOLO FIX	L642 AWY-LO	3.32667 104.01333	35,000 ft 10,668 m	25	-
VEPLI FIX	L642 AWY-LO	3.87306 104.09500	35,000 ft 10,668 m	33	-
ENREP FIX	L642 AWY-LO	4.87306 104.24500	35,000 ft 10,668 m	60	-
ESPOB FIX	L642 AWY-LO	7.00000 105.55500	35,000 ft 10,668 m	149	-
CS NDB	L642 AWY-LO	8.72972 106.63194	35,000 ft 10,668 m	122	CONSON NDB
ELSAS FIX	L642 AWY-LO	10.13667 107.54833	35,000 ft 10,668 m	100	-
PHT VOR	L642 AWY-LO	10.92778 108.07028	35,000 ft 10,668 m	56	PHANTHET VOR-DME
KARAN FIX	L642 AWY-LO	12.64889 109.15667	35,000 ft 10,668 m	121	-
VEPAM FIX	L642 AWY-LO	13.96667 110.00000	35,000 ft 10,668 m	93	-
EXOTO FIX	L642 AWY-LO	15.35833 111.05000	35,000 ft 10,668 m	103	-
EGEMU FIX	L642 AWY-LO	17.00000 112.28333	35,000 ft 10,668 m	121	-
EPKAL FIX	L642 AWY-LO	17.85833 112.95500	35,000 ft 10,668 m	64	-
ENBOK FIX	L642 AWY-LO	18.55667 113.49167	35,000 ft 10,668 m	51	-
EPDOS FIX	L642 AWY-LO	19.00000 113.55500	35,000 ft 10,668 m	26	-
CH VOR	L642 AWY-LO	22.21954 114.03006	35,000 ft 10,668 m	195	CHEUNG CHAU VOR-DME
BEKOL FIX	A461 AWY-LO	22.54333 114.13333	35,000 ft 10,668 m	20	-
IDUMA FIX	A461 AWY-LO	22.89500 113.95333	35,000 ft 10,668 m	23	-
SHL VOR	A461 AWY-LO	23.09000 113.85333	35,000 ft 10,668 m	12	SHILONG VOR-DME
NOMAR FIX	-	23.50833 113.85667	35,000 ft 10,668 m	25	-
BILAT FIX	W19 AWY-LO	23.86833 114.14667	35,000 ft 10,668 m	26	-
MABAG FIX	W19 AWY-LO	24.31333 114.50667	35,000 ft 10,668 m	33	-
KOW VOR	W19 AWY-LO	25.82167 114.91500	35,000 ft 10,668 m	93	GANZHOU VOR-DME
NF NDB	A599 AWY-LO	27.21667 116.56667	35,000 ft 10,668 m	122	NANFENG NDB
SHR VOR	A599 AWY-LO	28.41667 117.96667	35,000 ft 10,668 m	103	SHANGRAO VOR-DME
ELNEX	A599	29.63167	35,000 ft	108	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	119.49000	10,668 m		
TOL	A599	29.76333	35,000 ft	11	TONGLU VOR-DME
VOR	AWY-LO	119.65833	10,668 m		
SX	A599	30.88333	35,000 ft	77	NANXUN NDB
NDB	AWY-LO	120.41667	10,668 m		
JTN	A599	31.12500	35,000 ft	49	JIUTING VOR-DME
VOR	AWY-LO	121.34000	10,668 m		
PUD	A593	31.16833	35,000 ft	22	PUDONG VOR-DME
VOR	AWY-LO	121.78000	10,668 m		
PINOT	W11	31.45000	35,000 ft	38	-
FIX	AWY-LO	122.45000	10,668 m		
EMSAN	G455	31.67833	35,000 ft	21	-
FIX	AWY-LO	122.77500	10,668 m		
SURAK	G455	31.77333	35,000 ft	37	-
FIX	AWY-LO	123.49167	10,668 m		
DOPNO	A326	35.00000	35,000 ft	193	-
FIX	AWY-LO	123.45000	10,668 m		
MUDAL	A326	36.85000	33,000 ft	111	-
FIX	AWY-LO	123.36667	10,058 m		
AGAVO	A591	37.16667	25,400 ft	35	-
FIX	AWY-LO	124.00000	7,742 m		
GONAV	G597	37.18000	21,100 ft	19	-
FIX	AWY-LO	124.41472	6,431 m		
RKSI	-	37.46908	0 ft	98	Incheon Intl
APT	-	126.45051	0 m		

## WSSS

Region: SINGAPORE

Timezone: ASIA/SINGAPORE

Runways: 2

Elevation: 20 ft / 6 m

Location: 1.355510 103.988000

Magnetic Var: 0.198 E

## METAR

WSSS 282230Z 19003KT 9999 FEW014 BKN150 28/27 Q1008 NOSIG

## TAF

TAF WSSS 281700Z 2818/3000 16009KT 9999 FEW015 SCT020 TEMPO 2906/2909 3000 TSRA FEW012CB BKN015

## Frequencies

DEP - 123.70 MHz - SINGAPORE RADAR	DEP - 127.30 MHz - SINGAPORE RADAR
DEP - 133.80 MHz - SINGAPORE RADAR	DEP - 133.25 MHz - SINGAPORE RADAR
DEP - 135.80 MHz - SINGAPORE RADAR	DEP - 134.20 MHz - SINGAPORE RADAR
DEP - 133.35 MHz - SINGAPORE RADAR	DEP - 134.40 MHz - SINGAPORE RADAR
DEP - 128.10 MHz - SINGAPORE RADAR	DEP - 255.40 MHz - SINGAPORE RADAR
DEP - 124.05 MHz - SINGAPORE RADAR	APP - 120.30 MHz - SINGAPORE APPROACH
APP - 124.60 MHz - SINGAPORE APPROACH	APP - 119.30 MHz - SINGAPORE ARRIVAL
TWR - 118.60 MHz - SINGAPORE TOWER	TWR - 118.25 MHz - SINGAPORE TOWER
GND - 124.30 MHz - SINGAPORE GROUND	GND - 121.72 MHz - SINGAPORE GROUND
GND - 121.85 MHz - SINGAPORE GROUND	GND - 121.00 MHz - SINGAPORE GROUND EMERGENCY
GND - 122.55 MHz - SINGAPORE GROUND	CLD - 121.65 MHz - SINGAPORE DELIVERY
CLD - 119.60 MHz - SINGAPORE DELIVERY	REC - 128.60 MHz -
REC - 128.02 MHz -	CHANGI AIRPORT INFORMATION (D-ATIS)
CHANGI AIRPORT ARRIVAL INFORMATION	

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
02L	197 ft	13,187 ft	22.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	22.68		0 m	0 m
20R	197 ft	13,187 ft	202.88	ASPHALT	2,428 ft	390 ft
	60 m	4,020 m	202.68		740 m	119 m
02C	197 ft	13,187 ft	22.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	22.68		0 m	0 m
20C	197 ft	13,187 ft	202.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	202.68		0 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
02C	DME	ICE	108.30 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
02L	DME	ICW	110.90 MHz	18 nm	-	-	20 ft
				33 km	-		20 m
20C	DME	ICC	109.70 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
20R	DME	ICH	108.90 MHz	18 nm	-	-	22 ft
				33 km	-		22 m
02C	LOC-ILS	ICE	108.30 MHz	18 nm	22.88	-	20 ft
				33 km	22.68		20 m
02L	LOC-ILS	ICW	110.90 MHz	18 nm	22.88	-	20 ft

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				33 km	22.68		20 m
20C	LOC-ILS	ICC	109.70 MHz	18 nm	202.88	-	20 ft
				33 km	202.68		20 m
20R	LOC-ILS	ICH	108.90 MHz	18 nm	202.88	-	20 ft
				33 km	202.68		20 m
02C	GS	ICE	108.30 MHz	10 nm	22.88	3.00	20 ft
				19 km	22.68		20 m
02L	GS	ICW	110.90 MHz	10 nm	22.88	3.00	20 ft
				19 km	22.68		20 m
20C	GS	ICC	109.70 MHz	10 nm	202.88	3.00	20 ft
				19 km	202.68		20 m
20R	GS	ICH	108.90 MHz	10 nm	202.88	3.00	20 ft
				19 km	202.68		20 m

## RKSI

Region: SOUTH KOREA  
Timezone: UNKNOWN  
Runways: 3

Elevation: 22 ft / 7 m  
Location: 37.465400 126.443000  
Magnetic Var: 8.786 W

## METAR

RKSI 282230Z 14002KT CAVOK 18/15 Q1013 NOSIG

## TAF

TAF RKSI 281700Z 2818/2924 23006KT CAVOK TN14/2821Z TX23/2906Z TN16/2921Z BECMG 2914/2915 06006KT BECMG 2916/2918 23006KT

## Frequencies

REC - 128.40 MHz - INCHEON ATIS  
TWR - 118.20 MHz - INCHEON TOWER  
DEP - 121.40 MHz - SEOUL DEPARTURE

GND - 121.75 MHz - INCHEON GROUND  
APP - 119.75 MHz - SEOUL APPROACH

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16	197 ft	13,131 ft	144.75	ASPHALT	0 ft	394 ft
	60 m	4,002 m	153.54		0 m	120 m
34	197 ft	13,131 ft	324.77	ASPHALT	0 ft	394 ft
	60 m	4,002 m	333.56		0 m	120 m
15R	197 ft	12,311 ft	144.78	ASPHALT	0 ft	397 ft
	60 m	3,752 m	153.56		0 m	121 m
33L	197 ft	12,311 ft	324.79	ASPHALT	0 ft	394 ft
	60 m	3,752 m	333.58		0 m	120 m
15L	197 ft	12,312 ft	144.77	ASPHALT	0 ft	397 ft
	60 m	3,753 m	153.56		0 m	121 m
33R	197 ft	12,312 ft	324.79	ASPHALT	0 ft	394 ft
	60 m	3,753 m	333.58		0 m	120 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
15L	DME	ISLL	111.90 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
15R	DME	ISRR	109.10 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
33L	DME	INLL	109.30 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
33R	DME	INRR	108.90 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
15L	LOC-ILS	ISLL	111.90 MHz	18 nm	144.79	-	22 ft
				33 km	153.58		22 m
15R	LOC-ILS	ISRR	109.10 MHz	18 nm	144.79	-	22 ft
				33 km	153.58		22 m
16	LOC-ILS	IRKS	110.35 MHz	18 nm	144.77	-	22 ft
				33 km	153.56		22 m
33L	LOC-ILS	INLL	109.30 MHz	18 nm	324.79	-	22 ft
				33 km	333.58		22 m
33R	LOC-ILS	INRR	108.90 MHz	18 nm	324.79	-	22 ft
				33 km	333.58		22 m
34	LOC-ILS	IRKN	108.10 MHz	18 nm	324.77	-	22 ft

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				33 km	333.56		22 m
15L	GS	ISLL	111.90 MHz	10 nm	144.79	3.00	22 ft
				19 km	153.58		22 m
15R	GS	ISRR	109.10 MHz	10 nm	144.79	3.00	22 ft
				19 km	153.58		22 m
16	GS	IRKS	110.35 MHz	10 nm	144.77	3.00	22 ft
				19 km	153.56		22 m
33L	GS	INLL	109.30 MHz	10 nm	324.79	3.00	22 ft
				19 km	333.58		22 m
33R	GS	INRR	108.90 MHz	10 nm	324.79	3.00	23 ft
				19 km	333.58		23 m
34	GS	IRKN	108.10 MHz	10 nm	324.77	3.00	22 ft
				19 km	333.56		22 m