

WSSS

Singapore Changi Intl. Airport

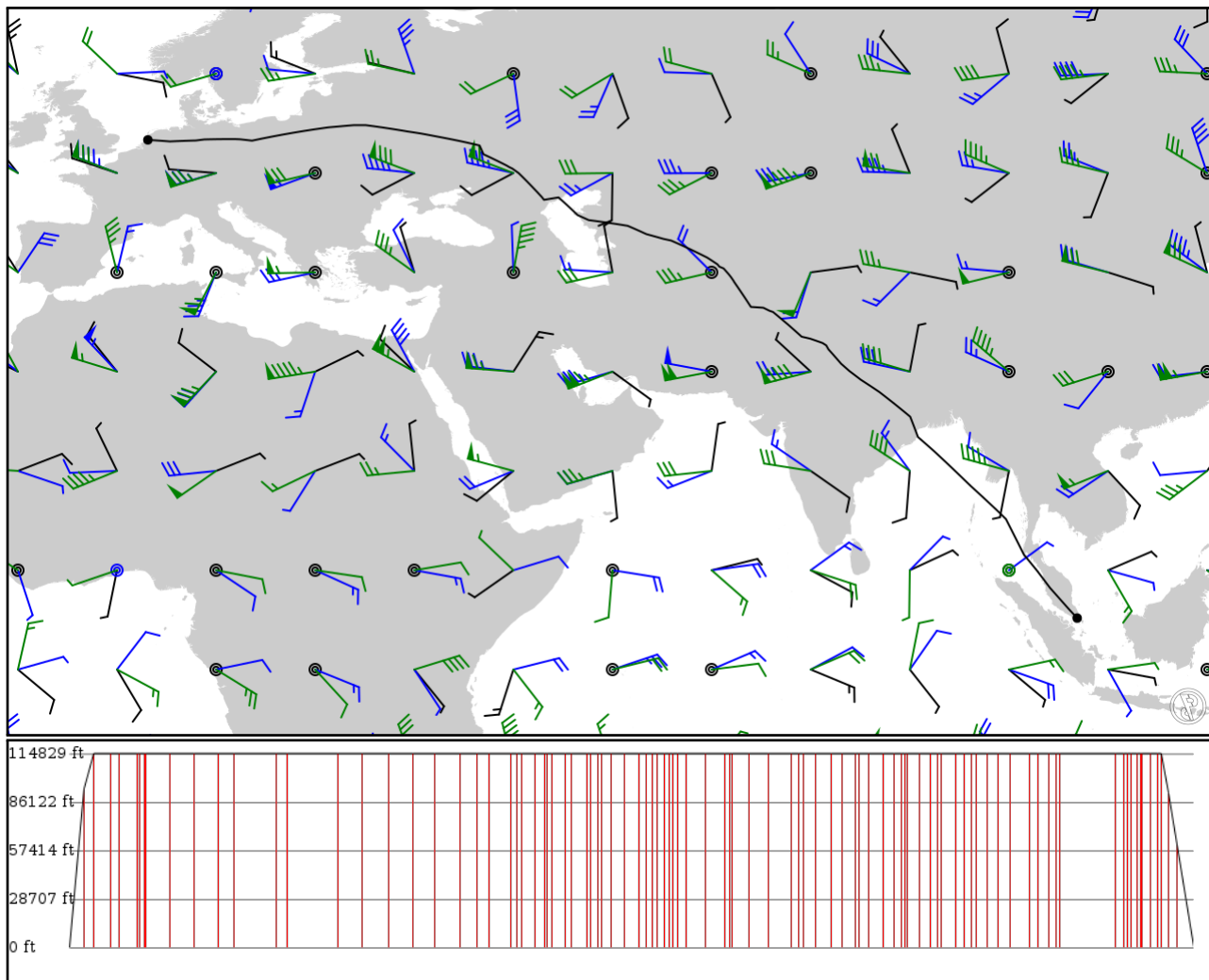
EHAM

Schiphol

2024/05/16 0604Z

WSSS DAMAL R325 VIH W531 VPL B579 PUT L515 OBMOG M770 JJS P646 BBN R460 LLK M890 SAMAR LA J161 PS
KOTAL A455 RAMSO A453 MURAD A454 AMDAR A114 TRZ A466 GR W82 KASAN A107 URG SOVOD B712 UTAT B440
KUNAS B363 LOLNA OMORA B363 BABUR G242 ZG02 G487 UP R120 BUTRI R11 ZG R365 TE G724 BUGOR UL748
MNS G102 NIMAN L979 ENOBI UL979 KELOD UL980 SUI Y208 TUVAK UL980 HLZ L179 OSN G9 AMSAN EHAM

5890.12 nm / 10908.50 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 280kts
- Cruise Altitude: 36000ft
- Cruise Speed: 430kts
- Descent Rate: 1500ft/min
- Descent Speed: 260kts

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
DAMAL FIX	-	2.33194 103.08667	28,600 ft 8,717 m	80	-
LATUK FIX	R325 AWY-LO	2.92111 102.56278	35,000 ft 10,668 m	47	-
ANSOM FIX	R325 AWY-LO	4.07333 101.53861	35,000 ft 10,668 m	92	-
VIH VOR	R325 AWY-LO	4.57303 101.09361	35,000 ft 10,668 m	40	IPOH VOR-DME
VILAT FIX	W531 AWY-LO	5.89111 100.09917	35,000 ft 10,668 m	99	-
ANDOK FIX	W531 AWY-LO	6.02222 100.00000	35,000 ft 10,668 m	9	-
VPL VOR	W531 AWY-LO	6.35542 99.74739	35,000 ft 10,668 m	25	LANGKAWI VOR-DME
DALAN FIX	B579 AWY-LO	6.46889 99.65556	35,000 ft 10,668 m	8	-
PUT VOR	B579 AWY-LO	8.11523 98.30630	35,000 ft 10,668 m	127	PHUKET VOR-DME
IKULA FIX	L515 AWY-LO	10.00192 97.35389	35,000 ft 10,668 m	126	-
OBMOG FIX	L515 AWY-LO	11.90194 96.39194	35,000 ft 10,668 m	127	-
LALAT FIX	M770 AWY-LO	12.84694 95.41889	35,000 ft 10,668 m	80	-
SADUS FIX	M770 AWY-LO	15.42806 92.63111	35,000 ft 10,668 m	224	-
MEPEL FIX	M770 AWY-LO	16.03333 92.00000	35,000 ft 10,668 m	51	-
BUBKO FIX	M770 AWY-LO	19.18436 88.66403	35,000 ft 10,668 m	268	-
KAKID FIX	M770 AWY-LO	20.64340 86.99510	35,000 ft 10,668 m	128	-
JJS VOR	M770 AWY-LO	22.81236 86.16761	35,000 ft 10,668 m	138	JAMSHEDPUR VOR-DME
PUPAM FIX	P646 AWY-LO	24.20886 84.45614	35,000 ft 10,668 m	126	-
BBN VOR	P646 AWY-LO	25.45401 82.85925	35,000 ft 10,668 m	114	VARANASI VOR-DME
LLK VOR	R460 AWY-LO	26.76220 80.88047	35,000 ft 10,668 m	132	LUCKNOW VOR-DME
JAL VOR	M890 AWY-LO	27.69432 79.65562	35,000 ft 10,668 m	86	JALALABAD VOR-DME
PUMOT FIX	M890 AWY-LO	28.46674 78.78184	35,000 ft 10,668 m	65	-
SP NDB	M890 AWY-LO	29.99991 77.43201	35,000 ft 10,668 m	116	SARSAWA NDB
ONOGI FIX	M890 AWY-LO	30.41654 77.19870	35,000 ft 10,668 m	27	-
CHG VOR	M890 AWY-LO	30.66762 76.80570	35,000 ft 10,668 m	25	CHANDIGARH VOR-DME
LAKET	M890	31.13312	35,000 ft	73	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	75.48227	10,668 m		
SAMAR	M890	31.34667	35,000 ft	48	-
FIX	AWY-LO	74.56583	10,668 m		
LA	-	31.49972	35,000 ft	12	LAHORE VOR-DME
VOR	-	74.40002	10,668 m		
SARPO	J161	31.81333	35,000 ft	26	-
FIX	AWY-LO	74.04778	10,668 m		
CADIZ	J161	32.63667	35,000 ft	68	-
FIX	AWY-LO	73.11611	10,668 m		
BALKA	J161	32.98833	35,000 ft	29	-
FIX	AWY-LO	72.69611	10,668 m		
PS	J161	33.97537	35,000 ft	83	PESHAWAR VOR-DME
VOR	AWY-LO	71.51716	10,668 m		
KOTAL	-	34.09972	35,000 ft	19	-
FIX	-	71.14944	10,668 m		
RAMSO	A455	34.43000	35,000 ft	38	-
FIX	AWY-LO	70.47500	10,668 m		
MIXEL	A453	34.45529	35,000 ft	19	-
FIX	AWY-LO	70.08185	10,668 m		
MURAD	A453	34.51667	35,000 ft	46	-
FIX	AWY-LO	69.15000	10,668 m		
DOSHI	A454	35.60000	35,000 ft	73	-
FIX	AWY-LO	68.44167	10,668 m		
KHOLM	A454	36.71667	35,000 ft	76	-
FIX	AWY-LO	67.68333	10,668 m		
AMDAR	A454	37.20833	35,000 ft	33	-
FIX	AWY-LO	67.34333	10,668 m		
TRZ	A114	37.28500	35,000 ft	4	TERMEZ VOR-DME
VOR	AWY-LO	67.30667	10,668 m		
HA	A466	37.68333	35,000 ft	27	SHERABAD NDB
NDB	AWY-LO	67.03333	10,668 m		
RATAR	A466	38.02167	35,000 ft	23	-
FIX	AWY-LO	66.76667	10,668 m		
GR	A466	38.61833	35,000 ft	43	GUZAR NDB
NDB	AWY-LO	66.23833	10,668 m		
UTSK	W82	38.81500	35,000 ft	24	-
APT	AWY-LO	65.77333	10,668 m		
KASAN	W82	39.05000	35,000 ft	16	-
FIX	AWY-LO	65.58500	10,668 m		
TUDLI	A107	39.31000	35,000 ft	23	-
FIX	AWY-LO	65.19500	10,668 m		
UTSB	A107	39.77500	35,000 ft	43	BUKHARA
APT	AWY-LO	64.48333	10,668 m		
ZUHRA	A107	40.70000	35,000 ft	102	-
FIX	AWY-LO	62.59167	10,668 m		
URG	A107	41.58333	35,000 ft	102	URGENCH VOR-DME
VOR	AWY-LO	60.65000	10,668 m		
SOVOD	-	41.70167	35,000 ft	25	-
FIX	-	60.11167	10,668 m		
UTAT	B712	41.76071	35,000 ft	12	DASHOGUZ
APT	AWY-LO	59.83794	10,668 m		
TABUN	B440	42.27333	35,000 ft	87	-
FIX	AWY-LO	57.99500	10,668 m		
KUNAS	B440	43.15667	35,000 ft	102	-
FIX	AWY-LO	56.00000	10,668 m		
MEDOL	B363	43.57361	35,000 ft	121	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	53.28306	10,668 m		
NEPIL	B363	43.69250	35,000 ft	38	-
FIX	AWY-LO	52.41528	10,668 m		
LOLNA	B363	43.76750	35,000 ft	25	-
FIX	AWY-LO	51.83694	10,668 m		
OMORA	-	44.29333	35,000 ft	59	-
FIX	-	50.65722	10,668 m		
BABUR	B363	45.38667	35,000 ft	82	-
FIX	AWY-LO	49.50000	10,668 m		
ZG02	G242	46.18333	35,000 ft	60	-
APT	AWY-LO	48.61667	10,668 m		
UP	G487	45.92722	35,000 ft	66	ZENZELI NDB
NDB	AWY-LO	47.06028	10,668 m		
BASKO	R120	46.20000	35,000 ft	18	-
FIX	AWY-LO	46.84861	10,668 m		
KARNI	R120	46.95500	35,000 ft	53	-
FIX	AWY-LO	46.14694	10,668 m		
NOKLI	R120	48.02500	35,000 ft	76	-
FIX	AWY-LO	45.11333	10,668 m		
GOGIN	R120	48.78167	35,000 ft	54	-
FIX	AWY-LO	44.34667	10,668 m		
ST	R120	49.25889	35,000 ft	38	SIROTINSKAYA NDB
NDB	AWY-LO	43.67944	10,668 m		
LISOT	R120	49.41667	35,000 ft	16	-
FIX	AWY-LO	43.35000	10,668 m		
KLODI	R120	49.58333	35,000 ft	14	-
FIX	AWY-LO	43.06667	10,668 m		
INBAL	R120	50.19167	35,000 ft	59	-
FIX	AWY-LO	41.84333	10,668 m		
BUTRI	R120	50.78333	35,000 ft	59	-
FIX	AWY-LO	40.59833	10,668 m		
RIMKA	R11	51.38333	35,000 ft	37	-
FIX	AWY-LO	40.33333	10,668 m		
ZG	R11	51.71667	35,000 ft	20	PETROVSKOYE NDB
NDB	AWY-LO	40.18333	10,668 m		
TE	R365	52.15250	35,000 ft	75	TERBUNY NDB
NDB	AWY-LO	38.26806	10,668 m		
UBONA	G724	52.38972	35,000 ft	44	-
FIX	AWY-LO	37.10972	10,668 m		
TALID	G724	52.57472	35,000 ft	36	-
FIX	AWY-LO	36.16472	10,668 m		
MAKOD	G724	52.69806	35,000 ft	25	-
FIX	AWY-LO	35.50806	10,668 m		
ABEVI	G724	53.00000	35,000 ft	61	-
FIX	AWY-LO	33.89167	10,668 m		
BUGOR	G724	53.21667	35,000 ft	53	-
FIX	AWY-LO	32.46472	10,668 m		
KEDUG	UL748	53.48833	35,000 ft	61	-
FIX	AWY-HI	30.80000	10,668 m		
MNS	UL748	53.88500	35,000 ft	101	MINSK-2 VOR-DME
VOR	AWY-HI	28.02167	10,668 m		
KI	G102	53.88333	35,000 ft	45	IVENETS NDB
NDB	AWY-LO	26.73333	10,668 m		
PEPAR	G102	53.74167	35,000 ft	58	-
FIX	AWY-LO	25.10167	10,668 m		
NIMAN	G102	53.65000	35,000 ft	37	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	24.05333	10,668 m		
ENOBI	L979	53.59278	35,000 ft	15	-
FIX	AWY-LO	23.62972	10,668 m		
KELOD	UL979	52.23389	35,000 ft	292	-
FIX	AWY-HI	15.88333	10,668 m		
SUI	UL980	52.37986	35,000 ft	48	SUBI VOR-DME
VOR	AWY-HI	14.58560	10,668 m		
TUVAK	Y208	52.39972	35,000 ft	18	-
FIX	AWY-LO	14.07083	10,668 m		
ADLIR	UL980	52.40028	35,000 ft	16	-
FIX	AWY-HI	13.62194	10,668 m		
PENEK	UL980	52.39583	35,000 ft	35	-
FIX	AWY-HI	12.64667	10,668 m		
SOBLU	UL980	52.39222	35,000 ft	13	-
FIX	AWY-HI	12.27278	10,668 m		
GALKU	UL980	52.38944	35,000 ft	7	-
FIX	AWY-HI	12.07917	10,668 m		
HLZ	UL980	52.36339	35,000 ft	47	HEHLINGEN VOR-DME
VOR	AWY-HI	10.79522	10,668 m		
DLE	L179	52.25032	35,000 ft	34	LEINE VOR-DME
VOR	AWY-LO	9.88350	10,668 m		
ROBEG	L179	52.23362	35,000 ft	22	-
FIX	AWY-LO	9.26962	10,668 m		
OSN	L179	52.20014	27,900 ft	36	OSNABRUCK VOR
VOR	AWY-LO	8.28552	8,504 m		
AMSAN	G9	52.15028	18,600 ft	43	-
FIX	AWY-LO	7.11139	5,669 m		
EHAM	-	52.31485	0 ft	87	Schiphol
APT	-	4.75812	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 160530Z 15007KT 120V180 9999 FEW015 FEW017TCU FEW018CB BKN140 29/25 Q1009 NOSIG

TAF

TAF AMD WSSS 160135Z 1601/1706 17008KT 9999 FEW015 SCT020 TEMPO 1603/1606 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

EHAM

Region: NETHERLANDS
Timezone: EUROPE/AMSTERDAM
Runways: 6

Elevation: -11 ft / -3 m
Location: 52.308100 4.764170
Magnetic Var: 2.045 E

METAR

EHAM 160525Z 31004KT 7000 FEW023 SCT040 14/14 Q1004 BECMG 8000

TAF

TAF TAF EHAM 152322Z 1600/1706 30004KT 3500 BR SCT005 TEMPO 1600/1610 5000 RA SHRA BKN007 SCT040CB PROB30 TEMPO 16

Frequencies

GND - 121.55 MHz - SCHIPHOL GROUND	GND - 121.70 MHz - SCHIPHOL GROUND
GND - 121.80 MHz - SCHIPHOL GROUND	GND - 121.90 MHz - SCHIPHOL GROUND
GND - 121.60 MHz - SCHIPHOL GROUND	TWR - 119.22 MHz - SCHIPHOL TOWER
TWR - 118.10 MHz - SCHIPHOL TOWER	TWR - 118.27 MHz - SCHIPHOL TOWER
TWR - 119.90 MHz - SCHIPHOL TOWER	APP - 118.80 MHz - AMSTERDAM RADAR
APP - 120.55 MHz - AMSTERDAM RADAR	APP - 127.78 MHz - AMSTERDAM RADAR
APP - 119.05 MHz - SCHIPHOL APPROACH	APP - 118.08 MHz - SCHIPHOL APPROACH
APP - 126.68 MHz - SCHIPHOL APPROACH	APP - 118.40 MHz - SCHIPHOL ARRIVAL
APP - 131.15 MHz - SCHIPHOL ARRIVAL	DEP - 121.20 MHz - SCHIPHOL DEPARTURE
REC - 122.20 MHz - SCHIPHOL ATIS	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09	145 ft	11,319 ft	86.77	ASPHALT	325 ft	0 ft
	44 m	3,450 m	84.73		99 m	0 m
27	145 ft	11,319 ft	266.81	ASPHALT	0 ft	0 ft
	44 m	3,450 m	264.77		0 m	0 m
18L	150 ft	11,150 ft	183.24	ASPHALT	1,886 ft	0 ft
	46 m	3,399 m	181.20		575 m	0 m
36R	150 ft	11,150 ft	3.24	ASPHALT	0 ft	0 ft
	46 m	3,399 m	1.19		0 m	0 m
18C	145 ft	10,813 ft	183.22	ASPHALT	0 ft	0 ft
	44 m	3,296 m	181.17		0 m	0 m
36C	145 ft	10,813 ft	3.22	ASPHALT	1,473 ft	0 ft
	44 m	3,296 m	1.17		449 m	0 m
18R	190 ft	12,467 ft	183.19	ASPHALT	886 ft	0 ft
	58 m	3,800 m	181.15		270 m	0 m
36L	190 ft	12,467 ft	3.19	ASPHALT	0 ft	0 ft
	58 m	3,800 m	1.14		0 m	0 m
06	150 ft	11,288 ft	57.85	ASPHALT	814 ft	0 ft
	46 m	3,441 m	55.81		248 m	0 m
24	150 ft	11,288 ft	237.89	ASPHALT	0 ft	0 ft
	46 m	3,441 m	235.84		0 m	0 m
04	140 ft	6,624 ft	41.18	ASPHALT	0 ft	0 ft
	43 m	2,019 m	39.14		0 m	0 m
22	140 ft	6,624 ft	221.20	ASPHALT	0 ft	0 ft
	43 m	2,019 m	219.15		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
06	DME	KAG	110.55 MHz	18 nm 33 km	- -	-	-11 ft -11 m
18R	DME	VPB	110.10 MHz	18 nm 33 km	- -	-	-11 ft -11 m
22	DME	SCH	109.15 MHz	18 nm 33 km	- -	-	-11 ft -11 m
27	DME	BVB	111.55 MHz	18 nm 33 km	- -	-	-11 ft -11 m
36C	DME	MSA	108.75 MHz	18 nm 33 km	- -	-	-11 ft -11 m
36R	DME	ABA	111.95 MHz	18 nm 33 km	- -	-	-11 ft -11 m
06	LOC-ILS	KAG	110.55 MHz	18 nm 33 km	57.88 55.83	-	-11 ft -11 m
18C	LOC-ILS	ZWA	109.50 MHz	18 nm 33 km	183.22 181.17	-	-11 ft -11 m
18R	LOC-ILS	VPB	110.10 MHz	18 nm 33 km	183.19 181.14	-	-11 ft -11 m
22	LOC-ILS	SCH	109.15 MHz	18 nm 33 km	221.20 219.15	-	-11 ft -11 m
27	LOC-ILS	BVB	111.55 MHz	18 nm 33 km	266.79 264.74	-	-11 ft -11 m
36C	LOC-ILS	MSA	108.75 MHz	18 nm 33 km	3.22 1.17	-	-11 ft -11 m
36R	LOC-ILS	ABA	111.95 MHz	18 nm 33 km	3.24 1.19	-	-11 ft -11 m
06	GS	KAG	110.55 MHz	10 nm 19 km	57.88 55.83	3.00	-11 ft -11 m
18C	GS	ZWA	109.50 MHz	10 nm 19 km	183.22 181.17	3.00	-11 ft -11 m
18R	GS	VPB	110.10 MHz	10 nm 19 km	183.19 181.14	3.00	-11 ft -11 m
22	GS	SCH	109.15 MHz	10 nm 19 km	221.20 219.15	3.00	-11 ft -11 m
27	GS	BVB	111.55 MHz	10 nm 19 km	266.79 264.74	3.00	-11 ft -11 m
36C	GS	MSA	108.75 MHz	10 nm 19 km	3.22 1.17	3.00	-11 ft -11 m
36R	GS	ABA	111.95 MHz	10 nm 19 km	3.24 1.19	3.00	-11 ft -11 m