EGLL
London Heathrow

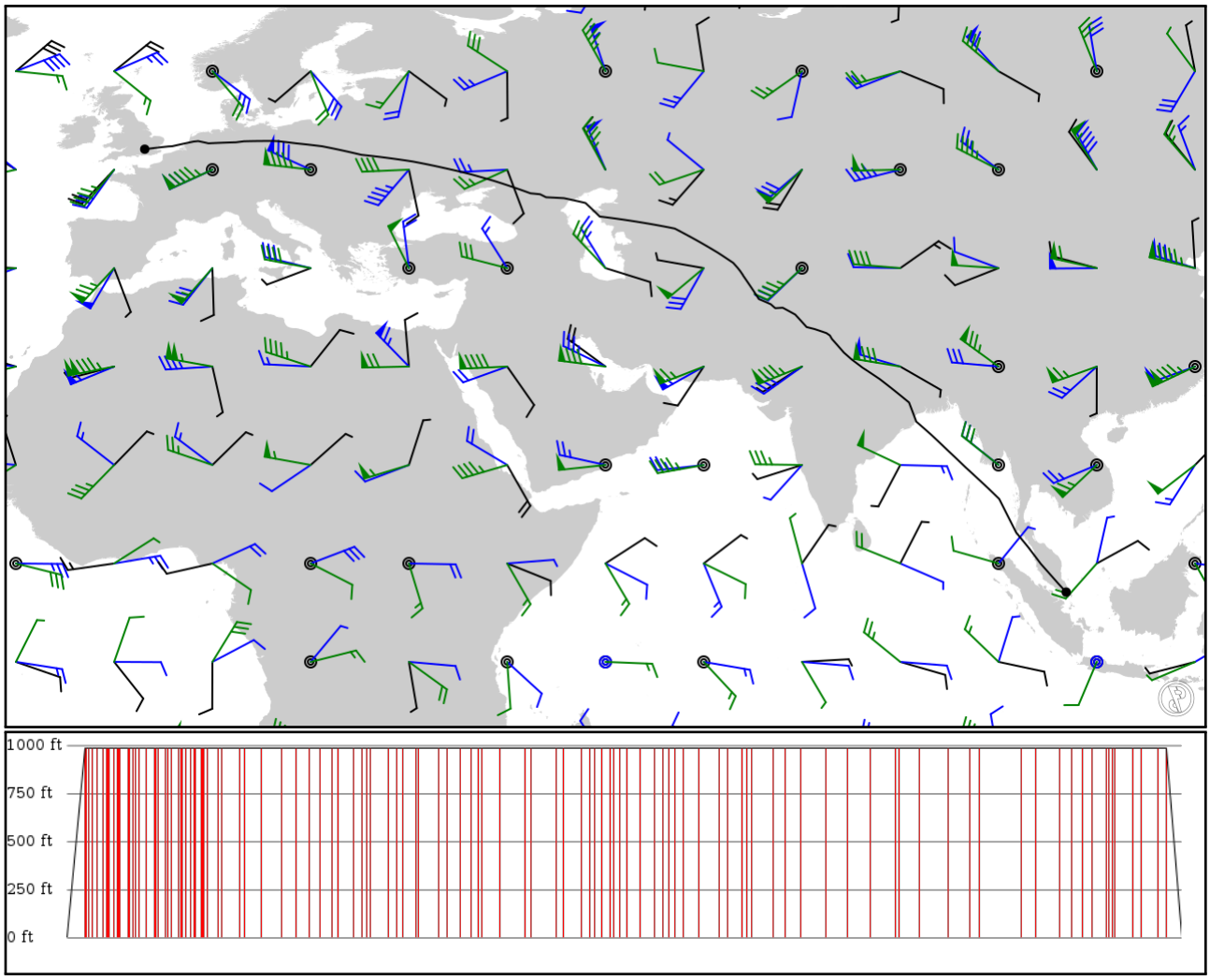
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WSSS
Singapore Changi

2024/03/29 0446Z

EGLL XAMAN **L980** EKROS **UL980** PAM **L980** RKN **UL980** DLE **L980** HLZ **UL980** SUBIX **L980** PEKIT **A83** TAGAN **L980** TAMAK **A87** TIKNA ELI LUTIN **R122** UP **A102** BABUR **B363** NAKUK **B198** BUPOR **A107** INDUD **A466** TRZ TRZ **A466** AMDAR **M875** TAPIS **L509** LAJAK **G796** HANGU **J139** JABAR **L509** SAMAR **M890** LKN **R460** BBN **P646** JJS **M770** OBMOG **L515** PUT **B579** VPL VPL **W531** VIH **R325** REDUK WSSS

6009.02 nm / 11128.70 km



Notes

Basic altitude profile:
- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 390ft
- 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
EGLL APT	–	51.47120 -0.46088	0 ft 0 m	–	London Heathrow
XAMAN FIX	–	51.78470 2.22417	300 ft 91 m	101	–
ULKOK FIX	L980 AWY-LO	51.79540 2.41132	300 ft 91 m	6	–
REFSO FIX	L980 AWY-LO	51.80960 2.66691	300 ft 91 m	9	–
GORLO FIX	L980 AWY-LO	51.92410 3.17184	300 ft 91 m	19	–
VALKO FIX	L980 AWY-LO	52.07130 3.83983	300 ft 91 m	26	–
DENAG FIX	L980 AWY-LO	52.08240 3.89080	300 ft 91 m	1	–
EKROS FIX	L980 AWY-LO	52.23730 4.61955	300 ft 91 m	28	–
PAM VOR	UL980 AWY-HI	52.33480 5.09216	300 ft 91 m	18	PAMPUS
OMORU FIX	L980 AWY-LO	52.35290 5.27227	300 ft 91 m	6	–
FLEVO FIX	L980 AWY-LO	52.38530 5.60217	300 ft 91 m	12	–
TENLI FIX	L980 AWY-LO	52.24650 6.25014	300 ft 91 m	25	–
RKN VOR	L980 AWY-LO	52.13320 6.76388	300 ft 91 m	20	REKKEN
ETEBO FIX	UL980 AWY-HI	52.13830 6.87528	300 ft 91 m	4	–
AMSAN FIX	UL980 AWY-HI	52.15030 7.11139	300 ft 91 m	8	–
OSN VOR	UL980 AWY-HI	52.20010 8.28552	300 ft 91 m	43	OSNABRUECK
MOBSA FIX	UL980 AWY-HI	52.20640 8.44944	300 ft 91 m	6	–
BADMU FIX	UL980 AWY-HI	52.22440 8.97083	300 ft 91 m	19	–
ROBEG FIX	UL980 AWY-HI	52.23360 9.26962	300 ft 91 m	11	–
DLE VOR	UL980 AWY-HI	52.25030 9.88349	300 ft 91 m	22	LEINE
HLZ VOR	L980 AWY-LO	52.36340 10.79520	300 ft 91 m	34	HEHLINGEN
GALKU FIX	UL980 AWY-HI	52.38940 12.07920	300 ft 91 m	47	–
SOBLU FIX	UL980 AWY-HI	52.39220 12.27280	300 ft 91 m	7	–
PENEK FIX	UL980 AWY-HI	52.39580 12.64670	300 ft 91 m	13	–
ADLIR FIX	UL980 AWY-HI	52.40030 13.62190	300 ft 91 m	35	–
TUVAK FIX	UL980 AWY-HI	52.39980 14.07080	300 ft 91 m	16	–
SUBIX	UL980	52.37970	300 ft	18	–

Ident	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
FIX	AWY-HI	14.58560	91 m		
BAREP	L980	52.27110	300 ft	36	-
FIX	AWY-HI	15.56440	91 m		
KELOD	L980	52.23390	300 ft	11	-
FIX	AWY-HI	15.88330	91 m		
OBOLA	L980	52.19440	300 ft	12	-
FIX	AWY-HI	16.21140	91 m		
ADVAB	L980	52.13060	300 ft	19	-
FIX	AWY-HI	16.72720	91 m		
BADUP	L980	52.05920	300 ft	25	-
FIX	AWY-HI	17.42110	91 m		
MASIV	L980	52.01250	300 ft	16	-
FIX	AWY-HI	17.85670	91 m		
INDIG	L980	51.99670	300 ft	5	-
FIX	AWY-HI	18.00000	91 m		
UTOLU	L980	51.89690	300 ft	32	-
FIX	AWY-HI	18.86750	91 m		
VAMPU	L980	51.86580	300 ft	9	-
FIX	AWY-HI	19.12500	91 m		
DERAM	L980	51.84690	300 ft	5	-
FIX	AWY-HI	19.28080	91 m		
POLON	L980	51.80000	300 ft	14	-
FIX	AWY-HI	19.65610	91 m		
ASVEM	L980	51.48220	300 ft	61	-
FIX	AWY-HI	21.22720	91 m		
OMAVA	L980	51.38390	300 ft	18	-
FIX	AWY-HI	21.68810	91 m		
USTIL	L980	50.83330	300 ft	96	-
FIX	AWY-HI	24.10000	91 m		
VABOD	L980	50.75830	300 ft	26	-
FIX	AWY-HI	24.79500	91 m		
DORER	L980	50.46580	300 ft	93	-
FIX	AWY-HI	27.20780	91 m		
BEMBI	L980	50.07470	300 ft	107	-
FIX	AWY-HI	29.93310	91 m		
EDIMI	L980	49.71560	300 ft	73	-
FIX	AWY-HI	31.76080	91 m		
PEKIT	L980	49.31330	300 ft	76	-
FIX	AWY-HI	33.61670	91 m		
TOVPU	A83	49.02310	300 ft	53	-
FIX	AWY-HI	34.90060	91 m		
TAGAN	A83	48.65000	300 ft	64	-
FIX	AWY-HI	36.44170	91 m		
GANRA	L980	48.44530	300 ft	32	-
FIX	AWY-HI	37.18690	91 m		
TAMAK	L980	47.85670	300 ft	88	-
FIX	AWY-HI	39.21830	91 m		
BATMU	A87	47.55580	300 ft	42	-
FIX	AWY-HI	40.15690	91 m		
ARDUB	A87	47.36860	300 ft	25	-
FIX	AWY-HI	40.72310	91 m		
BANPA	A87	47.21580	300 ft	20	-
FIX	AWY-HI	41.18080	91 m		
TIKNA	A87	46.47970	300 ft	96	-
FIX	AWY-HI	43.26330	91 m		
ELI	-	46.37190	300 ft	45	ELISTA

Ident	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
VOR	-	44.35490	91 m		
LUTIN	-	46.02970	300 ft	34	-
FIX	-	45.03530	91 m		
NEMUL	R122	45.94580	300 ft	71	-
FIX	AWY-HI	46.74060	91 m		
UP	R122	45.92720	300 ft	13	ZENZELI
NDB	AWY-HI	47.06030	91 m		
BABUR	A102	45.38670	300 ft	107	-
FIX	AWY-HI	49.50000	91 m		
ATNUR	B363	44.76640	300 ft	46	-
FIX	AWY-HI	50.16330	91 m		
AKT	B363	43.85870	300 ft	67	AKTAU
VOR	AWY-HI	51.10070	91 m		
NEPIL	B363	43.69250	300 ft	57	-
FIX	AWY-HI	52.41530	91 m		
MEDOL	B363	43.57360	300 ft	38	-
FIX	AWY-HI	53.28310	91 m		
BAPER	B363	43.50310	300 ft	21	-
FIX	AWY-HI	53.77830	91 m		
KUNAS	B363	43.15640	300 ft	99	-
FIX	AWY-HI	56.00000	91 m		
EKMOS	B363	42.63830	300 ft	130	-
FIX	AWY-HI	58.87670	91 m		
NAKUK	B363	42.48830	300 ft	34	-
FIX	AWY-HI	59.62330	91 m		
OGSES	B198	41.14670	300 ft	138	-
FIX	AWY-HI	62.12670	91 m		
VANAB	B198	40.79000	300 ft	35	-
FIX	AWY-HI	62.75670	91 m		
BUPOR	B198	39.77500	300 ft	99	-
FIX	AWY-HI	64.48330	91 m		
TUDLI	A107	39.31000	300 ft	43	-
FIX	AWY-HI	65.19500	91 m		
YU	A107	39.05000	300 ft	23	KASAN
NDB	AWY-HI	65.58500	91 m		
INDUD	A107	38.61830	300 ft	40	-
FIX	AWY-HI	66.23830	91 m		
RATAR	A466	38.02170	300 ft	43	-
FIX	AWY-HI	66.76670	91 m		
HA	A466	37.68330	300 ft	23	SHERABAD
NDB	AWY-HI	67.03330	91 m		
TRZ	A466	37.28500	300 ft	27	TERMEZ VOR-DME
DME	AWY-HI	67.30670	91 m		
TRZ	-	37.28670	300 ft	0	TERMEZ
VOR	-	67.31770	91 m		
AMDAR	A466	37.20830	300 ft	4	-
FIX	AWY-HI	67.34330	91 m		
KHOLM	M875	36.71670	300 ft	33	-
FIX	AWY-HI	67.68330	91 m		
DOSHI	M875	35.60000	300 ft	76	-
FIX	AWY-HI	68.44170	91 m		
TAPIS	M875	34.51670	300 ft	73	-
FIX	AWY-HI	69.15000	91 m		
GIDOG	L509	34.17640	300 ft	44	-
FIX	AWY-HI	69.94640	91 m		
LAJAK	L509	33.93310	300 ft	31	-

Ident	Via	Lat	Alt	Dist	Name
Type		Lon		(nm)	
FIX	AWY-HI	70.49970	91 m		
HANGU	G796	33.48580	300 ft	36	-
FIX	AWY-HI	71.00580	91 m		
JABAR	J139	33.53830	300 ft	42	-
FIX	AWY-HI	71.85610	91 m		
INDEK	L509	32.76670	300 ft	84	-
FIX	AWY-HI	73.26610	91 m		
SAMAR	L509	31.34670	300 ft	107	-
FIX	AWY-HI	74.56580	91 m		
LAKET	M890	31.11640	300 ft	49	-
FIX	AWY-HI	75.48220	91 m		
CHG	M890	30.66750	300 ft	73	CHANDIGARH
VOR	AWY-HI	76.80580	91 m		
ONOGI	M890	30.40000	300 ft	25	-
FIX	AWY-HI	77.19860	91 m		
SP	M890	29.99990	300 ft	26	SARSAWA
NDB	AWY-HI	77.43200	91 m		
PUMOT	M890	28.46670	300 ft	116	-
FIX	AWY-HI	78.78190	91 m		
JAL	M890	27.69440	300 ft	65	JALALABAD
VOR	AWY-HI	79.65560	91 m		
LKN	M890	26.75860	300 ft	86	LUCKNOW
VOR	AWY-HI	80.89440	91 m		
BBN	R460	25.45420	300 ft	131	VARANASI
VOR	AWY-HI	82.85950	91 m		
PUPAM	P646	24.20890	300 ft	114	-
FIX	AWY-HI	84.45610	91 m		
JJS	P646	22.81330	300 ft	126	JAMSHEDPUR
VOR	AWY-HI	86.17380	91 m		
KAKID	M770	20.64330	300 ft	138	-
FIX	AWY-HI	86.99500	91 m		
BUMRO	M770	20.47080	300 ft	15	-
FIX	AWY-HI	87.20000	91 m		
BUBKO	M770	19.18440	300 ft	113	-
FIX	AWY-HI	88.66420	91 m		
DABEN	M770	17.40690	300 ft	151	-
FIX	AWY-HI	90.54580	91 m		
MEPEL	M770	16.03330	300 ft	117	-
FIX	AWY-HI	92.00000	91 m		
SADUS	M770	15.42810	300 ft	51	-
FIX	AWY-HI	92.63110	91 m		
LALAT	M770	12.84690	300 ft	224	-
FIX	AWY-HI	95.41890	91 m		
OBMOG	M770	11.90190	300 ft	80	-
FIX	AWY-HI	96.39190	91 m		
IKULA	L515	10.00190	300 ft	127	-
FIX	AWY-HI	97.35390	91 m		
MUDMA	L515	9.01386	300 ft	66	-
FIX	AWY-HI	97.85430	91 m		
PUT	L515	8.11523	300 ft	60	PHUKET
VOR	AWY-HI	98.30630	91 m		
NUTGU	B579	7.46748	300 ft	50	-
FIX	AWY-HI	98.83880	91 m		
DALAN	B579	6.46889	300 ft	77	-
FIX	AWY-HI	99.65560	91 m		
VPL	B579	6.35435	300 ft	8	LANGKAWI

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	99.74550	91 m		
VPL	-	6.35542	300 ft	0	LANGKAWI VOR-DME
DME	-	99.74740	91 m		
ANDOK	W531	6.02167	300 ft	25	-
FIX	AWY-HI	100.00000	91 m		
VILAT	W531	5.89111	300 ft	9	-
FIX	AWY-HI	100.09900	91 m		
VIH	W531	4.57361	300 ft	99	IPOH
VOR	AWY-HI	101.09400	91 m		
ANSOM	R325	4.07333	300 ft	40	-
FIX	AWY-HI	101.53900	91 m		
LATUK	R325	2.92111	300 ft	92	-
FIX	AWY-HI	102.56300	91 m		
REDUK	R325	2.33258	300 ft	47	-
FIX	AWY-HI	103.08300	91 m		
WSSS	-	1.35561	0 ft	79	Singapore Changi
APT	-	103.98800	0 m		

EGLL

Region: UNITED KINGDOM
Timezone: EUROPE/LONDON
Runways: 2

Elevation: 83 ft / 25 m
Location: 51.471200 -0.460881
Magnetic Var: 0.361 E

METAR

EGLL 290420Z AUTO 19011KT 9999 -RA FEW037/// SCT044/// //////CB 08/06 Q0984 TEMPO SHRA

TAF

TAF EGLL 282304Z 2900/3006 20014KT 9999 SCT020 TEMPO 2900/2910 7000 SHRA PROB30 TEMPO 2901/2910 21015G25KT 4000 +S

Frequencies

REC - 128.07 MHz - HEATHROW INFORMATION
CLD - 121.97 MHz - HEATHROW DELIVERY
GND - 121.85 MHz - HEATHROW GROUND
TWR - 118.50 MHz - HEATHROW TOWER
TWR - 124.47 MHz - HEATHROW TOWER
APP - 120.40 MHz - HEATHROW DIRECTOR
APP - 125.62 MHz - HEATHROW RADAR
DEP - 120.52 MHz - HEATHROW DEPARTURE

REC - 121.92 MHz - HEATHROW INFORMATION
GND - 121.70 MHz - HEATHROW GROUND
GND - 121.90 MHz - HEATHROW GROUND
TWR - 118.70 MHz - HEATHROW TOWER
APP - 119.72 MHz - HEATHROW DIRECTOR
APP - 134.97 MHz - HEATHROW DIRECTOR
APP - 127.52 MHz - HEATHROW RADAR

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09L	164 ft 50 m	12,770 ft 3,892 m	89.66 89.30	ASPHALT	1,007 ft 307 m	0 ft 0 m
27R	164 ft 50 m	12,770 ft 3,892 m	269.70 269.34	ASPHALT	0 ft 0 m	177 ft 54 m
09R	164 ft 50 m	11,975 ft 3,650 m	89.68 89.32	ASPHALT	1,004 ft 306 m	0 ft 0 m
27L	164 ft 50 m	11,975 ft 3,650 m	269.72 269.36	ASPHALT	0 ft 0 m	95 ft 29 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09L	DME	IAA	110.30 MHz	18 nm 33 km	- -	-	89 ft 89 m
09R	DME	IBB	109.50 MHz	18 nm 33 km	- -	-	84 ft 84 m
27L	DME	ILL	109.50 MHz	18 nm 33 km	- -	-	84 ft 84 m
27R	DME	IRR	110.30 MHz	18 nm 33 km	- -	-	89 ft 89 m
09L	LOC-ILS	IAA	110.30 MHz	18 nm 33 km	89.68 89.32	-	83 ft 83 m
09R	LOC-ILS	IBB	109.50 MHz	18 nm 33 km	89.70 89.34	-	83 ft 83 m
27L	LOC-ILS	ILL	109.50 MHz	18 nm 33 km	269.70 269.34	-	83 ft 83 m
27R	LOC-ILS	IRR	110.30 MHz	18 nm 33 km	269.68 269.32	-	83 ft 83 m
09L	GS	IAA	110.30 MHz	10 nm 19 km	89.68 89.32	3.00	83 ft 83 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09R	GS	IBB	109.50 MHz	10 nm	89.70	3.00	83 ft
				19 km	89.34		83 m
27L	GS	ILL	109.50 MHz	10 nm	269.70	3.00	83 ft
				19 km	269.34		83 m
27R	GS	IRR	110.30 MHz	10 nm	269.68	3.00	83 ft
				19 km	269.32		83 m

WSSS

Region: SINGAPORE
Timezone: ASIA/SINGAPORE
Runways: 2
Elevation: 20 ft / 6 m
Location: 1.355510 103.988000
Magnetic Var: 0.199 E

METAR

WSSS 290430Z 09010KT 060V120 9999 FEW018TCU BKN300 33/25 Q1011 NOSIG

TAF

TAF WSSS 282300Z 2900/3006 10009KT 9999 FEW015 SCT020

Frequencies

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

Runways

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

Approach Navaids

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