

EGLL

London Heathrow

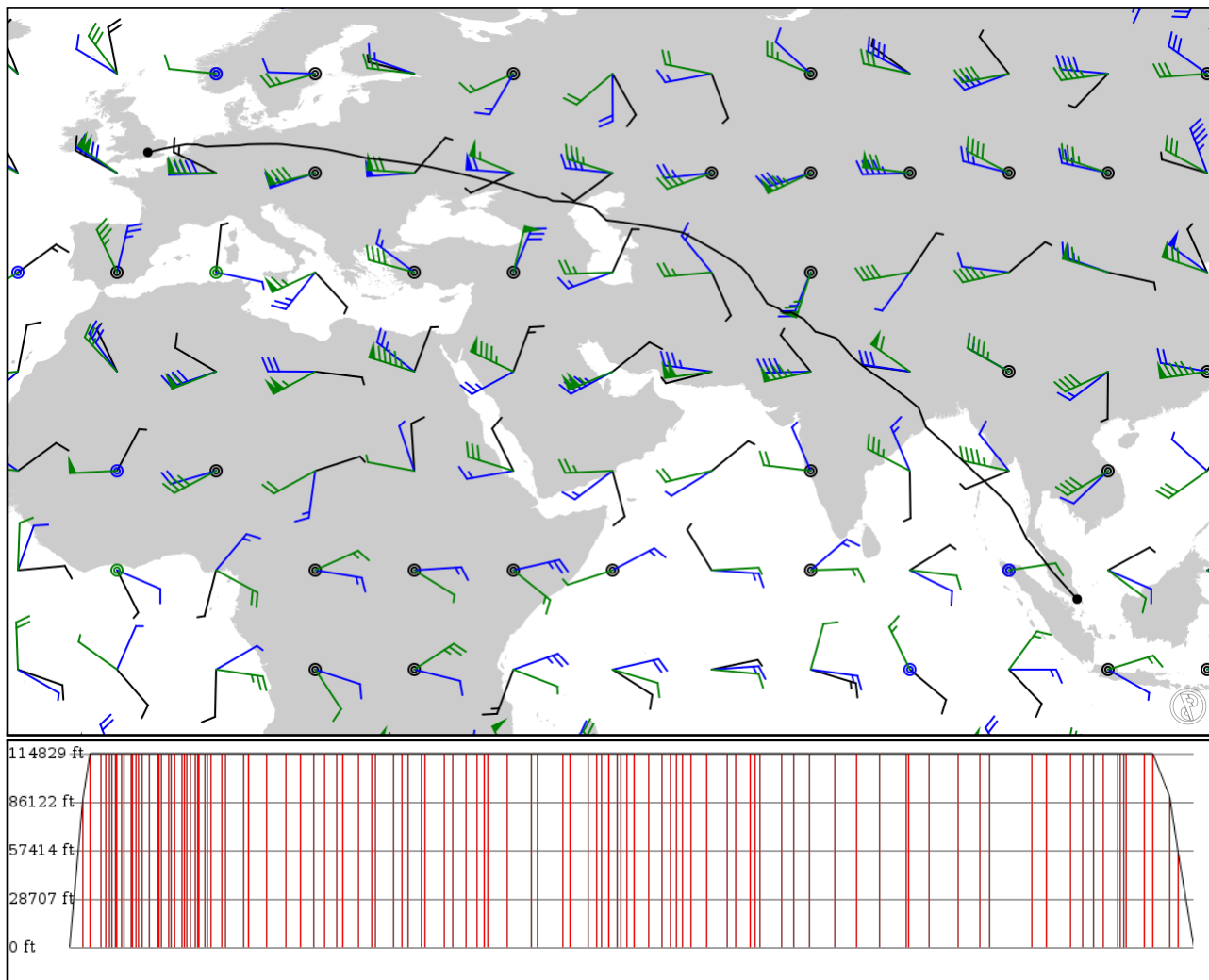
WSSS

Singapore Changi Intl

2024/05/04 1149Z

EGLL ARTOV **L620** ARNEM **UP147** RKN **UL980** DLE **L980** HLZ **UL980** SUBIX **L980** PEKIT **A83** TAGAN **L980** TAMAK
A87 TIKNA ELI LUTIN **R122** UP **A102** BABUR **B363** AKT AKT **B363** NAKUK **B198** BUPOR **A107** INDUD **A466** TRZ TRZ
A466 AMDAR **M875** TAPIS **L509** LAJAK **G796** HANGU **J139** JABAR **L509** SULOM **M890** LKN **R460** BBN **P646** JJS **M770**
OBMOG **L515** PUT **B579** VPL VPL **W531** VIH **R325** REDUK WSSS

6010.31 nm / 11131.10 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- 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	-	51.47120	0 ft	-	London Heathrow
APT	-	-0.46088	0 m		
ARTOV	-	51.90530	26,700 ft	74	-
FIX	-	1.42583	8,138 m		
REDFA	L620	52.11460	35,000 ft	41	-
FIX	AWY-LO	2.48795	10,668 m		
TULIP	L620	52.36770	35,000 ft	52	-
FIX	AWY-LO	3.85731	10,668 m		
BASNO	L620	52.35020	35,000 ft	26	-
FIX	AWY-LO	4.57504	10,668 m		
PAM	L620	52.33480	35,000 ft	18	PAMPUS
VOR	AWY-LO	5.09216	10,668 m		
NYKER	L620	52.23040	35,000 ft	17	-
FIX	AWY-LO	5.52880	10,668 m		
ELPAT	L620	52.12740	35,000 ft	16	-
FIX	AWY-LO	5.95114	10,668 m		
ARNEM	L620	52.09640	35,000 ft	4	-
FIX	AWY-LO	6.07660	10,668 m		
RKN	UP147	52.13320	35,000 ft	25	REKKEN VOR-DME
DME	AWY-HI	6.76388	10,668 m		
ETEBO	UL980	52.13830	35,000 ft	4	-
FIX	AWY-HI	6.87528	10,668 m		
AMSAN	UL980	52.15030	35,000 ft	8	-
FIX	AWY-HI	7.11139	10,668 m		
OSN	UL980	52.20010	35,000 ft	43	OSNABRUECK
VOR	AWY-HI	8.28552	10,668 m		
MOBSA	UL980	52.20640	35,000 ft	6	-
FIX	AWY-HI	8.44944	10,668 m		
BADMU	UL980	52.22440	35,000 ft	19	-
FIX	AWY-HI	8.97083	10,668 m		
ROBEG	UL980	52.23360	35,000 ft	11	-
FIX	AWY-HI	9.26962	10,668 m		
DLE	UL980	52.25030	35,000 ft	22	LEINE
VOR	AWY-HI	9.88349	10,668 m		
HLZ	L980	52.36340	35,000 ft	34	HEHLINGEN
VOR	AWY-LO	10.79520	10,668 m		
GALKU	UL980	52.38940	35,000 ft	47	-
FIX	AWY-HI	12.07920	10,668 m		
SOBLU	UL980	52.39220	35,000 ft	7	-
FIX	AWY-HI	12.27280	10,668 m		
PENEK	UL980	52.39580	35,000 ft	13	-
FIX	AWY-HI	12.64670	10,668 m		
ADLIR	UL980	52.40030	35,000 ft	35	-
FIX	AWY-HI	13.62190	10,668 m		
TUVAK	UL980	52.39980	35,000 ft	16	-
FIX	AWY-HI	14.07080	10,668 m		
SUBIX	UL980	52.37970	35,000 ft	18	-
FIX	AWY-HI	14.58560	10,668 m		
BAREP	L980	52.27110	35,000 ft	36	-
FIX	AWY-HI	15.56440	10,668 m		
KELOD	L980	52.23390	35,000 ft	11	-
FIX	AWY-HI	15.88330	10,668 m		
OBOLA	L980	52.19440	35,000 ft	12	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	16.21140	10,668 m		
ADVAB	L980	52.13060	35,000 ft	19	-
FIX	AWY-HI	16.72720	10,668 m		
BADUP	L980	52.05920	35,000 ft	25	-
FIX	AWY-HI	17.42110	10,668 m		
MASIV	L980	52.01250	35,000 ft	16	-
FIX	AWY-HI	17.85670	10,668 m		
INDIG	L980	51.99670	35,000 ft	5	-
FIX	AWY-HI	18.00000	10,668 m		
UTOLU	L980	51.89690	35,000 ft	32	-
FIX	AWY-HI	18.86750	10,668 m		
VAMPU	L980	51.86580	35,000 ft	9	-
FIX	AWY-HI	19.12500	10,668 m		
DERAM	L980	51.84690	35,000 ft	5	-
FIX	AWY-HI	19.28080	10,668 m		
POLON	L980	51.80000	35,000 ft	14	-
FIX	AWY-HI	19.65610	10,668 m		
ASVEM	L980	51.48220	35,000 ft	61	-
FIX	AWY-HI	21.22720	10,668 m		
OMAVA	L980	51.38390	35,000 ft	18	-
FIX	AWY-HI	21.68810	10,668 m		
USTIL	L980	50.83330	35,000 ft	96	-
FIX	AWY-HI	24.10000	10,668 m		
VABOD	L980	50.75830	35,000 ft	26	-
FIX	AWY-HI	24.79500	10,668 m		
DORER	L980	50.46580	35,000 ft	93	-
FIX	AWY-HI	27.20780	10,668 m		
BEMBI	L980	50.07470	35,000 ft	107	-
FIX	AWY-HI	29.93310	10,668 m		
EDIMI	L980	49.71560	35,000 ft	73	-
FIX	AWY-HI	31.76080	10,668 m		
PEKIT	L980	49.31330	35,000 ft	76	-
FIX	AWY-HI	33.61670	10,668 m		
TOVPU	A83	49.02310	35,000 ft	53	-
FIX	AWY-HI	34.90060	10,668 m		
TAGAN	A83	48.65000	35,000 ft	64	-
FIX	AWY-HI	36.44170	10,668 m		
GANRA	L980	48.44530	35,000 ft	32	-
FIX	AWY-HI	37.18690	10,668 m		
TAMAK	L980	47.85670	35,000 ft	88	-
FIX	AWY-HI	39.21830	10,668 m		
ARDUB	A87	47.36860	35,000 ft	67	-
FIX	AWY-HI	40.72310	10,668 m		
BANPA	A87	47.21580	35,000 ft	20	-
FIX	AWY-HI	41.18080	10,668 m		
TIKNA	A87	46.47970	35,000 ft	96	-
FIX	AWY-HI	43.26330	10,668 m		
ELI	-	46.37190	35,000 ft	45	ELISTA
VOR	-	44.35490	10,668 m		
LUTIN	-	46.02970	35,000 ft	34	-
FIX	-	45.03530	10,668 m		
NEMUL	R122	45.94580	35,000 ft	71	-
FIX	AWY-HI	46.74060	10,668 m		
UP	R122	45.92720	35,000 ft	13	ZENZELI
NDB	AWY-HI	47.06030	10,668 m		
BABUR	A102	45.38670	35,000 ft	107	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	49.50000	10,668 m		
ATNUR	B363	44.76640	35,000 ft	46	-
FIX	AWY-HI	50.16330	10,668 m		
AKT	B363	43.87230	35,000 ft	66	AKTAU
VOR	AWY-HI	51.06440	10,668 m		
AKT	-	43.85860	35,000 ft	1	AKTAU VOR-DME
DME	-	51.10190	10,668 m		
NEPIL	B363	43.69250	35,000 ft	57	-
FIX	AWY-HI	52.41530	10,668 m		
MEDOL	B363	43.57360	35,000 ft	38	-
FIX	AWY-HI	53.28310	10,668 m		
BAPER	B363	43.50310	35,000 ft	21	-
FIX	AWY-HI	53.77830	10,668 m		
KUNAS	B363	43.15640	35,000 ft	99	-
FIX	AWY-HI	56.00000	10,668 m		
EKMOS	B363	42.63830	35,000 ft	130	-
FIX	AWY-HI	58.87670	10,668 m		
NAKUK	B363	42.48830	35,000 ft	34	-
FIX	AWY-HI	59.62330	10,668 m		
OGSES	B198	41.14670	35,000 ft	138	-
FIX	AWY-HI	62.12670	10,668 m		
VANAB	B198	40.79000	35,000 ft	35	-
FIX	AWY-HI	62.75670	10,668 m		
BUPOR	B198	39.77500	35,000 ft	99	-
FIX	AWY-HI	64.48330	10,668 m		
TUDLI	A107	39.31000	35,000 ft	43	-
FIX	AWY-HI	65.19500	10,668 m		
YU	A107	39.05100	35,000 ft	23	KASAN
NDB	AWY-HI	65.58470	10,668 m		
INDUD	A107	38.61830	35,000 ft	40	-
FIX	AWY-HI	66.23830	10,668 m		
RATAR	A466	38.02170	35,000 ft	43	-
FIX	AWY-HI	66.76670	10,668 m		
HA	A466	37.69340	35,000 ft	23	SHERABAD
NDB	AWY-HI	67.05290	10,668 m		
TRZ	A466	37.28500	35,000 ft	27	TERMEZ VOR-DME
DME	AWY-HI	67.30670	10,668 m		
TRZ	-	37.28670	35,000 ft	0	TERMEZ
VOR	-	67.31770	10,668 m		
AMDAR	A466	37.20830	35,000 ft	4	-
FIX	AWY-HI	67.34330	10,668 m		
KHOLM	M875	36.71670	35,000 ft	33	-
FIX	AWY-HI	67.68330	10,668 m		
DOSHI	M875	35.60000	35,000 ft	76	-
FIX	AWY-HI	68.44170	10,668 m		
TAPIS	M875	34.51670	35,000 ft	73	-
FIX	AWY-HI	69.15000	10,668 m		
GIDOG	L509	34.17640	35,000 ft	44	-
FIX	AWY-HI	69.94640	10,668 m		
LAJAK	L509	33.93310	35,000 ft	31	-
FIX	AWY-HI	70.49970	10,668 m		
HANGU	G796	33.48580	35,000 ft	36	-
FIX	AWY-HI	71.00580	10,668 m		
JABAR	J139	33.53830	35,000 ft	42	-
FIX	AWY-HI	71.85610	10,668 m		
INDEK	L509	32.76670	35,000 ft	84	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	73.26610	10,668 m		
SULOM	L509	31.34640	35,000 ft	107	-
FIX	AWY-HI	74.56580	10,668 m		
LAKET	M890	31.11640	35,000 ft	49	-
FIX	AWY-HI	75.48220	10,668 m		
CHG	M890	30.66780	35,000 ft	73	CHANDIGARH
VOR	AWY-HI	76.80560	10,668 m		
ONOGI	M890	30.40000	35,000 ft	25	-
FIX	AWY-HI	77.19860	10,668 m		
SP	M890	29.99990	35,000 ft	26	SARSAWA
NDB	AWY-HI	77.43200	10,668 m		
PUMOT	M890	28.46670	35,000 ft	116	-
FIX	AWY-HI	78.78190	10,668 m		
JAL	M890	27.69440	35,000 ft	65	JALALABAD
VOR	AWY-HI	79.65560	10,668 m		
LKN	M890	26.75860	35,000 ft	86	LUCKNOW
VOR	AWY-HI	80.89440	10,668 m		
BBN	R460	25.45420	35,000 ft	131	VARANASI
VOR	AWY-HI	82.85950	10,668 m		
PUPAM	P646	24.20890	35,000 ft	114	-
FIX	AWY-HI	84.45610	10,668 m		
JJS	P646	22.81320	35,000 ft	126	JAMSHEDPUR
VOR	AWY-HI	86.17390	10,668 m		
KAKID	M770	20.64330	35,000 ft	138	-
FIX	AWY-HI	86.99500	10,668 m		
BUMRO	M770	20.47080	35,000 ft	15	-
FIX	AWY-HI	87.20000	10,668 m		
BUBKO	M770	19.18440	35,000 ft	113	-
FIX	AWY-HI	88.66420	10,668 m		
DABEN	M770	17.40690	35,000 ft	151	-
FIX	AWY-HI	90.54580	10,668 m		
MEPEL	M770	16.03330	35,000 ft	117	-
FIX	AWY-HI	92.00000	10,668 m		
SADUS	M770	15.42810	35,000 ft	51	-
FIX	AWY-HI	92.63110	10,668 m		
LALAT	M770	12.84690	35,000 ft	224	-
FIX	AWY-HI	95.41890	10,668 m		
OBMOG	M770	11.90190	35,000 ft	80	-
FIX	AWY-HI	96.39190	10,668 m		
IKULA	L515	10.00190	35,000 ft	127	-
FIX	AWY-HI	97.35390	10,668 m		
MUDMA	L515	9.01386	35,000 ft	66	-
FIX	AWY-HI	97.85430	10,668 m		
PUT	L515	8.11523	35,000 ft	60	PHUKET
VOR	AWY-HI	98.30630	10,668 m		
NUTGU	B579	7.46748	35,000 ft	50	-
FIX	AWY-HI	98.83880	10,668 m		
DALAN	B579	6.46889	35,000 ft	77	-
FIX	AWY-HI	99.65560	10,668 m		
VPL	B579	6.35436	35,000 ft	8	LANGKAWI
VOR	AWY-HI	99.74550	10,668 m		
VPL	-	6.35542	35,000 ft	0	LANGKAWI VOR-DME
DME	-	99.74740	10,668 m		
ANDOK	W531	6.02220	35,000 ft	25	-
FIX	AWY-HI	100.00000	10,668 m		
VILAT	W531	5.89110	35,000 ft	9	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	100.09900	10,668 m		
VIH	W531	4.57361	35,000 ft	99	IPOH
VOR	AWY-HI	101.09400	10,668 m		
ANSOM	R325	4.07330	35,000 ft	40	-
FIX	AWY-HI	101.53900	10,668 m		
LATUK	R325	2.92110	27,200 ft	92	-
FIX	AWY-HI	102.56300	8,291 m		
REDUK	R325	2.33258	17,100 ft	47	-
FIX	AWY-HI	103.08300	5,212 m		
WSSS	-	1.35551	0 ft	79	Singapore Changi Intl
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: 0.375 E

METAR

EGLL 041120Z AUTO 23006KT 160V280 9999 SCT036 16/07 Q1011

TAF

TAF AMD EGLL 040807Z 0408/0512 20005KT 9999 BKN012 BECMG 0408/0410 FEW035 PROB30 TEMPO 0412/0419 4000 +SHRA PROB30

Frequencies

REC - 128.07 MHz - HEATHROW INFORMATION	REC - 121.92 MHz - HEATHROW INFORMATION
CLD - 121.97 MHz - HEATHROW DELIVERY	GND - 121.70 MHz - HEATHROW GROUND
GND - 121.85 MHz - HEATHROW GROUND	GND - 121.90 MHz - HEATHROW GROUND
TWR - 118.50 MHz - HEATHROW TOWER	TWR - 118.70 MHz - HEATHROW TOWER
TWR - 124.47 MHz - HEATHROW TOWER	APP - 119.72 MHz - HEATHROW DIRECTOR
APP - 120.40 MHz - HEATHROW DIRECTOR	APP - 134.97 MHz - HEATHROW DIRECTOR
APP - 125.62 MHz - HEATHROW RADAR	APP - 127.52 MHz - HEATHROW RADAR
DEP - 120.52 MHz - HEATHROW DEPARTURE	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09L	164 ft	12,770 ft	89.66	ASPHALT	1,007 ft	0 ft
	50 m	3,892 m	89.29		307 m	0 m
27R	164 ft	12,770 ft	269.70	ASPHALT	0 ft	177 ft
	50 m	3,892 m	269.33		0 m	54 m
09R	164 ft	11,975 ft	89.68	ASPHALT	1,004 ft	0 ft
	50 m	3,650 m	89.31		306 m	0 m
27L	164 ft	11,975 ft	269.72	ASPHALT	0 ft	95 ft
	50 m	3,650 m	269.35		0 m	29 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09L	DME	IAA	110.30 MHz	18 nm	-	-	89 ft
				33 km	-		89 m
09R	DME	IBB	109.50 MHz	18 nm	-	-	84 ft
				33 km	-		84 m
27L	DME	ILL	109.50 MHz	18 nm	-	-	84 ft
				33 km	-		84 m
27R	DME	IRR	110.30 MHz	18 nm	-	-	89 ft
				33 km	-		89 m
09L	LOC-ILS	IAA	110.30 MHz	18 nm	89.68	-	83 ft
				33 km	89.31		83 m
09R	LOC-ILS	IBB	109.50 MHz	18 nm	89.70	-	83 ft
				33 km	89.33		83 m
27L	LOC-ILS	ILL	109.50 MHz	18 nm	269.70	-	83 ft
				33 km	269.33		83 m
27R	LOC-ILS	IRR	110.30 MHz	18 nm	269.68	-	83 ft
				33 km	269.31		83 m
09L	GS	IAA	110.30 MHz	10 nm	89.68	3.00	83 ft
				19 km	89.31		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	89.33		83 m
27L	GS	ILL	109.50 MHz	10 nm	269.70	3.00	83 ft
				19 km	269.33		83 m
27R	GS	IRR	110.30 MHz	10 nm	269.68	3.00	83 ft
				19 km	269.31		83 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 041130Z 33002KT 9999 FEW016 BKN270 26/24 Q1007 NOSIG

TAF

TAF AMD WSSS 040800Z 0408/0512 24008KT 9999 FEW015 SCT020

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