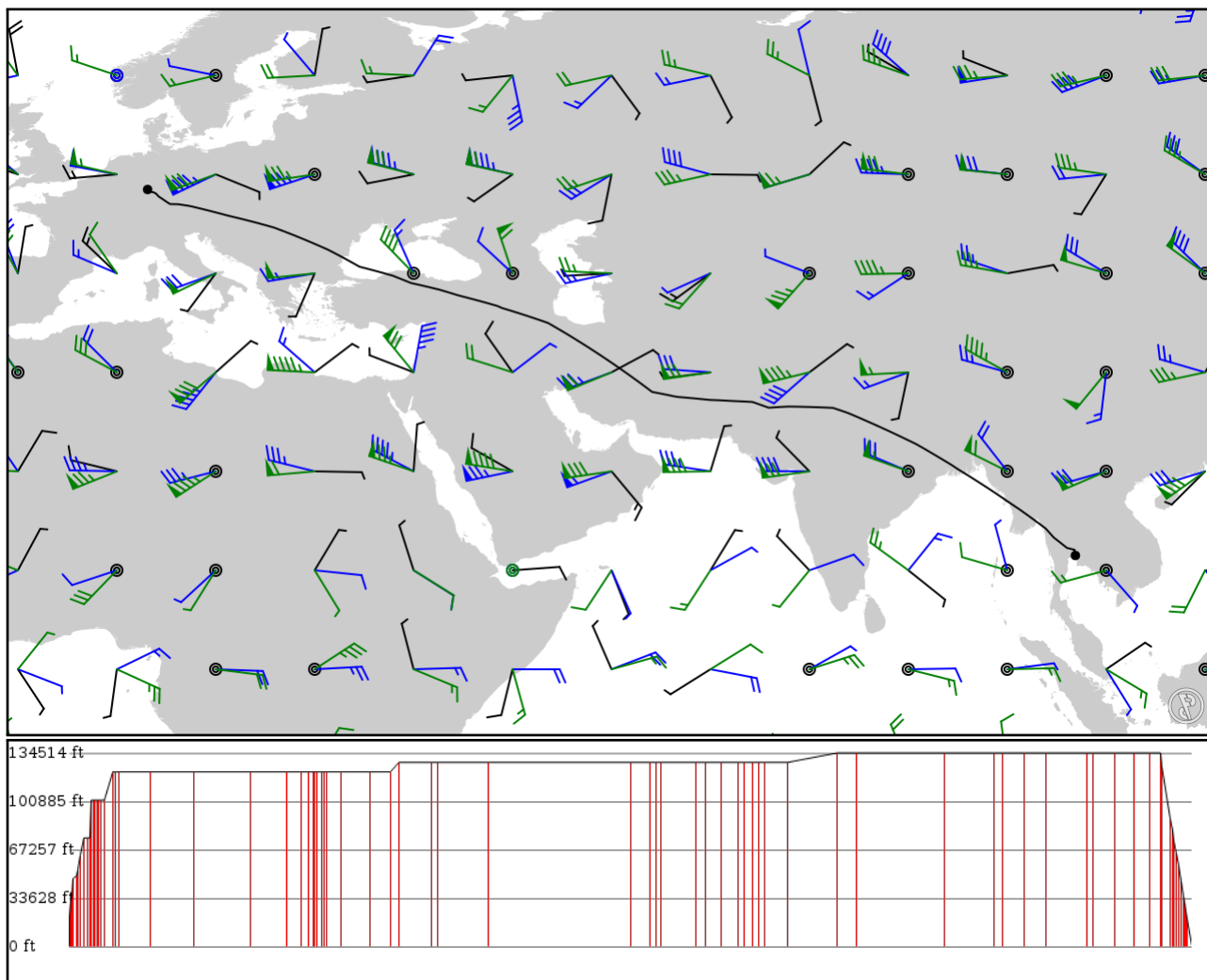


2024/05/20 0837Z

EDDF DF960 DF969 DF967 DF966 DF964 DF153 AMTIX CINDY HAREM +49.375_+009.637 LAMPU GEBNO NOMBO
ELVAG RIXED DODIL REDVO RIDAR WLD MIQ DOSEL BIBAG ESEGA STEIN TEGRI RONBU ARTAT ERMUP ROKVA NAPIP
UNVUS ASMOB RELTU APTOX TEPKI PIPUR ORMAN ERGUN ASVOD KONUK EVSAS VAN ZELSU ZAJ SILKO DANUS ZDN
DERBO SOKIR BILIP KALAT ELKEB POPOT MEMIX MORBA RK MERUN CHI ALI GGC CEA AVPOP ESDOT TEOV SUMSU
OTADA BGO ARATO LUDVI +14.965_+099.248 NUNLI IGONI WILLA BAROK BS510 INVEK BS508 BS506 BS504
BS502 WALTZ VTBS

5197.95 nm / 9626.61 km



Notes

None

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
EDDF	-	50.03331	364 ft	-	-
APT	-	8.57046	111 m		
DF960	-	50.05797	4,400 ft	3	-
FIX	-	8.64179	1,341 m		
DF969	-	50.05953	4,400 ft	0	-
FIX	-	8.64734	1,341 m		
DF967	-	50.07114	6,400 ft	2	-
FIX	-	8.69612	1,951 m		
DF966	-	50.01083	9,400 ft	4	-
FIX	-	8.76256	2,865 m		
DF964	-	49.98449	10,600 ft	1	-
FIX	-	8.74217	3,231 m		
DF153	-	49.84136	14,400 ft	8	-
FIX	-	8.69052	4,389 m		
AMTIX	-	49.76211	15,000 ft	16	-
FIX	-	9.09154	4,572 m		
CINDY	-	49.74679	16,300 ft	3	-
FIX	-	9.18754	4,968 m		
HAREM	-	49.61833	19,300 ft	11	-
FIX	-	9.41444	5,883 m		
+49.375_+009.637	-	49.37472	23,000 ft	17	-
LATLON	-	9.63661	7,010 m		
LAMPU	-	49.34000	23,000 ft	2	-
FIX	-	9.66806	7,010 m		
GEBNO	-	49.16669	23,000 ft	14	-
FIX	-	9.93229	7,010 m		
NOMBO	-	49.06361	23,000 ft	8	-
FIX	-	10.08806	7,010 m		
ELVAG	-	48.95167	31,000 ft	9	-
FIX	-	10.24639	9,449 m		
RIXED	-	48.82944	31,000 ft	10	-
FIX	-	10.41861	9,449 m		
DODIL	-	48.73257	31,000 ft	8	-
FIX	-	10.57374	9,449 m		
REDVO	-	48.65739	31,000 ft	6	-
FIX	-	10.69346	9,449 m		
RIDAR	-	48.58842	31,000 ft	6	-
FIX	-	10.80283	9,449 m		
WLD	-	48.57942	31,000 ft	12	-
VOR	-	11.12939	9,449 m		
MIQ	-	48.57022	31,000 ft	18	-
NDB	-	11.59750	9,449 m		
DOSEL	-	48.43861	37,000 ft	36	-
FIX	-	12.48083	11,278 m		
BIBAG	-	48.39705	37,000 ft	11	-
FIX	-	12.74978	11,278 m		
ESEGA	-	48.29644	37,000 ft	18	-
FIX	-	13.18147	11,278 m		
STEIN	-	47.42761	37,000 ft	147	-
FIX	-	16.59971	11,278 m		
TEGRI	-	46.26279	37,000 ft	197	-
FIX	-	21.10454	11,278 m		
RONBU	-	44.05167	37,000 ft	264	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	-	26.49833	11,278 m		
ARTAT	-	42.36389	37,000 ft	170	-
FIX	-	29.62417	11,278 m		
ERMUP	-	42.00056	37,000 ft	65	-
FIX	-	31.02278	11,278 m		
ROKVA	-	41.82917	37,000 ft	30	-
FIX	-	31.65722	11,278 m		
NAPIP	-	41.80667	37,000 ft	3	-
FIX	-	31.73889	11,278 m		
UNVUS	-	41.69500	37,000 ft	19	-
FIX	-	32.14139	11,278 m		
ASMOB	-	41.66944	37,000 ft	4	-
FIX	-	32.23278	11,278 m		
RELTU	-	41.64417	37,000 ft	4	-
FIX	-	32.32333	11,278 m		
APTOX	-	41.59306	37,000 ft	8	-
FIX	-	32.50417	11,278 m		
TEPKI	-	41.45333	37,000 ft	23	-
FIX	-	32.99278	11,278 m		
PIPUR	-	41.35111	37,000 ft	12	-
FIX	-	33.23889	11,278 m		
ORMAN	-	41.29192	37,000 ft	7	-
FIX	-	33.38589	11,278 m		
ERGUN	-	40.74639	37,000 ft	69	-
FIX	-	34.73889	11,278 m		
ASVOD	-	40.08222	37,000 ft	135	-
FIX	-	37.57278	11,278 m		
KONUK	-	39.51167	37,000 ft	93	-
FIX	-	39.46806	11,278 m		
EVSAS	-	39.32472	39,000 ft	35	-
FIX	-	40.18861	11,887 m		
VAN	-	38.46611	39,000 ft	155	-
VOR	-	43.32517	11,887 m		
ZELSU	-	38.26556	39,000 ft	24	-
FIX	-	43.78306	11,887 m		
ZAJ	-	36.77967	39,000 ft	235	-
VOR	-	48.35331	11,887 m		
SILKO	-	29.93278	39,000 ft	661	-
FIX	-	58.69389	11,887 m		
DANUS	-	29.60778	39,000 ft	88	-
FIX	-	60.34167	11,887 m		
ZDN	-	29.48675	39,000 ft	30	-
VOR	-	60.90158	11,887 m		
DERBO	-	29.42833	39,000 ft	20	-
FIX	-	61.28361	11,887 m		
SOKIR	-	29.13361	39,000 ft	165	-
FIX	-	64.41722	11,887 m		
BILIP	-	29.10500	39,000 ft	44	-
FIX	-	65.26444	11,887 m		
KALAT	-	29.03361	39,000 ft	69	-
FIX	-	66.58361	11,887 m		
ELKEB	-	28.96556	39,000 ft	77	-
FIX	-	68.06556	11,887 m		
POPOT	-	28.93333	39,000 ft	31	-
FIX	-	68.66667	11,887 m		
MEMIX	-	28.72000	39,000 ft	34	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	-	69.27917	11,887 m		
MORBA	-	28.53917	39,000 ft	29	-
FIX	-	69.78972	11,887 m		
RK	-	28.36565	39,000 ft	27	-
VOR	-	70.27315	11,887 m		
MERUN	-	28.48056	39,000 ft	104	-
FIX	-	72.24833	11,887 m		
CHI	-	28.34753	41,000 ft	233	-
VOR	-	76.66632	12,497 m		
ALI	-	27.82931	41,000 ft	85	-
VOR	-	78.17833	12,497 m		
GGC	-	24.74204	41,000 ft	408	-
VOR	-	84.94311	12,497 m		
CEA	-	22.67592	41,000 ft	229	-
VOR	-	88.44811	12,497 m		
AVPOP	-	22.30250	41,000 ft	38	-
FIX	-	89.01389	12,497 m		
ESDOT	-	21.34583	41,000 ft	102	-
FIX	-	90.54722	12,497 m		
TEBOV	-	20.41778	41,000 ft	98	-
FIX	-	91.99694	12,497 m		
SUMSU	-	18.57934	41,000 ft	189	-
FIX	-	94.72381	12,497 m		
OTADA	-	18.30119	41,000 ft	29	-
FIX	-	95.14661	12,497 m		
BGO	-	17.31849	41,000 ft	98	-
VOR	-	96.51988	12,497 m		
ARATO	-	16.36803	41,000 ft	92	-
FIX	-	97.79633	12,497 m		
LUDVI	-	15.48034	41,000 ft	70	-
FIX	-	98.59167	12,497 m		
+14.965_+099.248	-	14.96534	41,000 ft	49	-
LATLON	-	99.24780	12,497 m		
NUNLI	-	14.85762	38,200 ft	10	-
FIX	-	99.38433	11,643 m		
IGONI	-	14.44243	27,100 ft	39	-
FIX	-	99.90841	8,260 m		
WILLA	-	14.40472	24,600 ft	9	-
FIX	-	100.05982	7,498 m		
BAROK	-	14.37175	22,300 ft	7	-
FIX	-	100.19184	6,797 m		
BS510	-	14.33488	19,800 ft	8	-
FIX	-	100.33912	6,035 m		
INVEK	-	14.29896	17,200 ft	8	-
FIX	-	100.48220	5,243 m		
BS508	-	14.25029	13,900 ft	11	-
FIX	-	100.67549	4,237 m		
BS506	-	14.07270	10,700 ft	11	-
FIX	-	100.62877	3,261 m		
BS504	-	13.99261	9,300 ft	4	-
FIX	-	100.60773	2,835 m		
BS502	-	13.96231	7,400 ft	6	-
FIX	-	100.72358	2,256 m		
WALTZ	-	14.04334	5,900 ft	5	-
FIX	-	100.74506	1,798 m		
VTBS	-	13.68583	5 ft	21	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
APT	-	100.74889	2 m		

EDDF

Region: GERMANY - CIVIL
Timezone: EUROPE/BERLIN
Runways: 4

Elevation: 362 ft / 110 m
Location: 50.032600 8.540670
Magnetic Var: 3.177 E

METAR

EDDF 200820Z AUTO 03004KT 320V090 9999 BKN008 16/12 Q1012 BECMG SCT007 BKN011

TAF

TAF EDDF 200500Z 2006/2112 19004KT 1300 BCFG SCT001 TEMPO 2006/2007 0200 FG BKN001 BECMG 2006/2009 9999 TEMPO 2007/2008 0300 BKN008

Frequencies

REC - 118.02 MHz - ATIS ARRIVAL
GND - 121.80 MHz - GROUND
GND - 121.70 MHz - APRON RAMP/TAXI
GND - 121.85 MHz - APRON RAMP/TAXI
TWR - 118.77 MHz - TOWER
TWR - 124.85 MHz - TOWER
TWR - 136.50 MHz - TOWER
APP - 127.27 MHz - FRANKFURT DIRECT
APP - 125.35 MHz - LANGEN RADAR
APP - 120.80 MHz - LANGEN RADAR
APP - 136.12 MHz - LANGEN RADAR

REC - 118.72 MHz - ATIS DEPARTURE
GND - 121.65 MHz - APRON RAMP/TAXI
GND - 121.95 MHz - APRON RAMP/TAXI
GND - 121.75 MHz - APRON RAMP/TAXI
TWR - 119.90 MHz - TOWER
TWR - 127.32 MHz - TOWER
CLD - 121.90 MHz - CLEARANCE DELIVERY
APP - 118.50 MHz - FRANKFURT DIRECT
APP - 126.55 MHz - LANGEN RADAR
APP - 120.15 MHz - LANGEN RADAR
APP - 119.02 MHz - LANGEN RADAR

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
07L	148 ft	9,194 ft	69.56	CONCRETE	0 ft	0 ft
	45 m	2,802 m	66.39		0 m	0 m
25R	148 ft	9,194 ft	249.59	CONCRETE	0 ft	0 ft
	45 m	2,802 m	246.41		0 m	0 m
07C	197 ft	13,134 ft	69.57	ASPHALT	0 ft	203 ft
	60 m	4,003 m	66.39		0 m	62 m
25C	197 ft	13,134 ft	249.61	ASPHALT	0 ft	935 ft
	60 m	4,003 m	246.43		0 m	285 m
07R	148 ft	13,134 ft	69.59	ASPHALT	0 ft	213 ft
	45 m	4,003 m	66.41		0 m	65 m
25L	148 ft	13,134 ft	249.63	ASPHALT	0 ft	1,775 ft
	45 m	4,003 m	246.45		0 m	541 m
18	148 ft	13,083 ft	179.64	ASPHALT	0 ft	0 ft
	45 m	3,988 m	176.46		0 m	0 m
36	148 ft	13,083 ft	359.64	ASPHALT	0 ft	121 ft
	45 m	3,988 m	356.46		0 m	37 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07L	DME	IFNE	111.75 MHz	18 nm	-	-	357 ft
				33 km	-		357 m
25C	DME	IFCW	111.55 MHz	18 nm	-	-	364 ft
				33 km	-		364 m
25R	DME	IFNW	111.35 MHz	18 nm	-	-	357 ft
				33 km	-		357 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
07C	LOC-ILS	IFCE	110.55 MHz	18 nm	69.59	-	362 ft
				33 km	66.41		362 m
07L	LOC-ILS	IFNE	111.75 MHz	18 nm	69.58	-	362 ft
				33 km	66.40		362 m
07R	LOC-ILS	IFSE	110.95 MHz	18 nm	69.61	-	362 ft
				33 km	66.43		362 m
25C	LOC-ILS	IFCW	111.55 MHz	18 nm	249.59	-	362 ft
				33 km	246.41		362 m
25L	LOC-ILS	IFSW	111.15 MHz	18 nm	249.61	-	362 ft
				33 km	246.43		362 m
25R	LOC-ILS	IFNW	111.35 MHz	18 nm	249.58	-	362 ft
				33 km	246.40		362 m
07C	GS	IFCE	110.55 MHz	10 nm	69.59	3.00	362 ft
				19 km	66.41		362 m
07L	GS	IFNE	111.75 MHz	10 nm	69.58	3.00	362 ft
				19 km	66.40		362 m
07R	GS	IFSE	110.95 MHz	10 nm	69.61	3.00	362 ft
				19 km	66.43		362 m
25C	GS	IFCW	111.55 MHz	10 nm	249.59	3.00	362 ft
				19 km	246.41		362 m
25L	GS	IFSW	111.15 MHz	10 nm	249.61	3.00	362 ft
				19 km	246.43		362 m
25R	GS	IFNW	111.35 MHz	10 nm	249.58	3.00	362 ft
				19 km	246.40		362 m

VTBS

Region: THAILAND
Timezone: ASIA/BANGKOK
Runways: 2

Elevation: 4 ft / 1 m
Location: 13.680800 100.748000
Magnetic Var: 0.534 W

METAR

VTBS 200800Z 17010KT 9999 VCSH FEW020CB 34/25 Q1004 NOSIG

TAF

TAF VTBS 200500Z 2006/2112 19008KT 9999 FEW020 TEMPO 2007/2011 VRB15KT 3000 TSRA FEW018CB SCT030 TEMPO 2022/2102 V

Frequencies

REC - 133.60 MHz - ATIS	TWR - 119.00 MHz - SUVARNABHUMI TOWER
TWR - 118.20 MHz - SUVARNABHUMI TOWER	GND - 121.95 MHz - SUVARNABHUMI GROUND
GND - 121.65 MHz - SUVARNABHUMI GROUND	GND - 121.75 MHz - SUVARNABHUMI GROUND
CLD - 135.80 MHz - BANGKOK CLEARANCE DELIVERY	CLD - 128.70 MHz - BANGKOK CLEARANCE DELIVERY
CLD - 120.80 MHz - BANGKOK CLEARANCE DELIVERY	CLD - 125.80 MHz - DON MUEANG CLEARANCE DELIVERY
CLD - 133.80 MHz - BANGKOK CLEARANCE DELIVERY	APP - 124.35 MHz - BANGKOK ARRIVAL
APP - 125.20 MHz - BANGKOK ARRIVAL	APP - 122.35 MHz - BANGKOK ARRIVAL
APP - 120.30 MHz - BANGKOK APPROACH	APP - 119.10 MHz - BANGKOK APPROACH
APP - 121.70 MHz - BANGKOK ARRIVAL	APP - 126.30 MHz - SUVARNABHUMI ARRIVAL
APP - 133.60 MHz - SUVARNABHUMI ARRIVAL	APP - 121.10 MHz - SUVARNABHUMI ARRIVAL
APP - 133.40 MHz - SUVARNABHUMI ARRIVAL	DEP - 119.25 MHz - SUVARNABHUMI DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01R	197 ft	13,189 ft	14.33	ASPHALT	0 ft	394 ft
	60 m	4,020 m	14.86		0 m	120 m
19L	197 ft	13,189 ft	194.33	ASPHALT	0 ft	394 ft
	60 m	4,020 m	194.86		0 m	120 m
01L	197 ft	12,201 ft	14.32	ASPHALT	0 ft	394 ft
	60 m	3,719 m	14.86		0 m	120 m
19R	197 ft	12,201 ft	194.32	ASPHALT	0 ft	397 ft
	60 m	3,719 m	194.86		0 m	121 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01L	DME	ISWS	109.10 MHz	18 nm	-	-	5 ft
				33 km	-		5 m
01R	DME	ISES	110.10 MHz	18 nm	-	-	5 ft
				33 km	-		5 m
19L	DME	ISEN	110.50 MHz	18 nm	-	-	5 ft
				33 km	-		5 m
19R	DME	ISWN	109.50 MHz	18 nm	-	-	5 ft
				33 km	-		5 m
01L	LOC-ILS	ISWS	109.10 MHz	18 nm	14.32	-	4 ft
				33 km	14.85		4 m
01R	LOC-ILS	ISES	110.10 MHz	18 nm	14.33	-	4 ft
				33 km	14.86		4 m
19L	LOC-ILS	ISEN	110.50 MHz	18 nm	194.33	-	4 ft
				33 km	194.86		4 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
19R	LOC-ILS	ISWN	109.50 MHz	18 nm 33 km	194.32 194.85	-	4 ft 4 m
01L	GS	ISWS	109.10 MHz	10 nm 19 km	14.32 14.85	3.00	4 ft 4 m
01R	GS	ISES	110.10 MHz	10 nm 19 km	14.33 14.86	3.00	4 ft 4 m
19L	GS	ISEN	110.50 MHz	10 nm 19 km	194.33 194.86	3.00	4 ft 4 m
19R	GS	ISWN	109.50 MHz	10 nm 19 km	194.32 194.85	3.00	4 ft 4 m