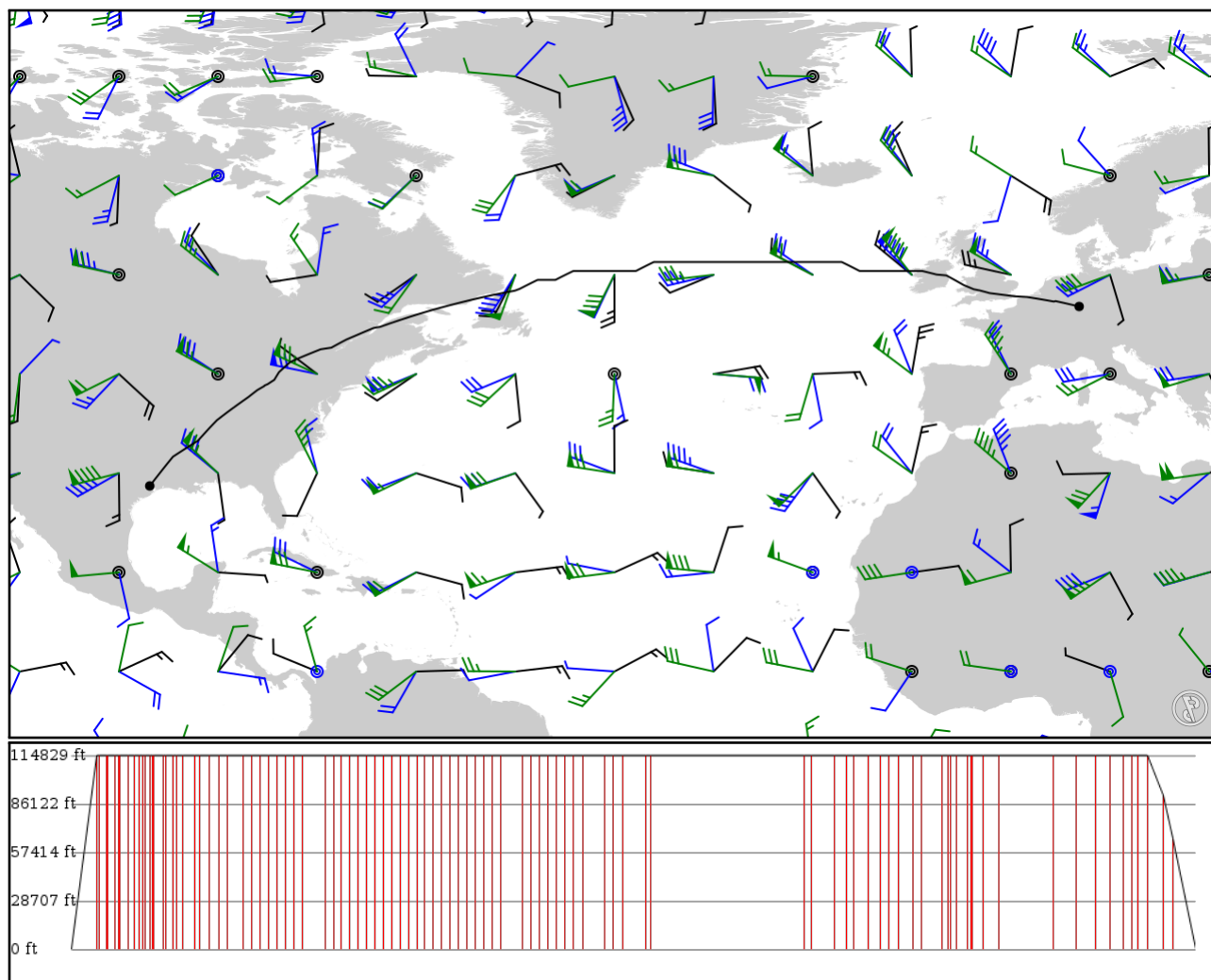


2024/05/11 1808Z

EDDF DINKI **UM170** LNO **L607** KOK KOK **L607** KONAN **L9** BIG **UL9** GOXUL **L9** NORRY **UL9** KENET **UN14** OKTAD **Q60**  
 LANON **UL18** LIPGO **L18** DUB **W13** INKUR 5400N0900W 5400N01000W 5400N01100W 5400N01200W 5400N01300W  
 5400N01400W 5400N01500W 5400N01600W 5500N01800W 5500N01900W 5500N02000W 5500N02100W 5500N02200W  
 5500N02300W 5500N02400W 5500N02500W 5500N02600W 5500N02700W 5500N02800W 5500N02900W 5500N03000W  
 5500N03100W 5500N03200W 5500N03300W 5500N03400W 5500N03500W 5500N03600W 5500N03700W 5500N03800W  
 5500N03900W 5400N04100W 5400N04200W 5400N04300W 5400N04400W 5400N04500W 5400N04600W 5400N04700W  
 5400N04800W 5300N05000W 5300N05100W 5300N05200W 5200N05400W RIKAL **N440A** YRI **V383** ML **J553** DICEN  
**Q852** TAMKO **T636** KANUR **Q806** YQO **V443** DJB **V14** BRUNZ DUTSH **Q29** MEM **J29** ENJOY KIAH

4643.08 nm / 8598.99 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
EDDF	-	50.03260	0 ft	-	Frankfurt
APT	-	8.54067	0 m		
DINKI	-	50.63920	35,000 ft	107	-
FIX	-	5.90611	10,668 m		
LNO	UM170	50.58580	35,000 ft	8	OLNO
VOR	AWY-HI	5.71028	10,668 m		
NIK40	L607	50.71960	35,000 ft	29	-
FIX	AWY-LO	4.96746	10,668 m		
GILOM	L607	50.75200	35,000 ft	7	-
FIX	AWY-LO	4.77411	10,668 m		
DENOX	L607	50.87940	35,000 ft	29	-
FIX	AWY-LO	4.02778	10,668 m		
GOLEX	L607	50.94530	35,000 ft	16	-
FIX	AWY-LO	3.61583	10,668 m		
MAK	L607	50.96440	35,000 ft	4	MACKEL
NDB	AWY-LO	3.49639	10,668 m		
KOK	L607	51.09920	35,000 ft	32	KOKSY VORTAC
DME	AWY-LO	2.65472	10,668 m		
KOK	-	51.09470	35,000 ft	0	KOKSY
VOR	-	2.65167	10,668 m		
KONAN	L607	51.13080	35,000 ft	24	-
FIX	AWY-LO	2.00000	10,668 m		
DVR	L9	51.16260	35,000 ft	24	DOVER
VOR	AWY-LO	1.35909	10,668 m		
UMTUM	L9	51.20760	35,000 ft	13	-
FIX	AWY-LO	1.01744	10,668 m		
EMKAD	L9	51.24720	35,000 ft	11	-
FIX	AWY-LO	0.70944	10,668 m		
DIKVU	L9	51.29640	35,000 ft	15	-
FIX	AWY-LO	0.31722	10,668 m		
BIG	L9	51.33090	35,000 ft	10	BIGGIN
VOR	AWY-LO	0.03481	10,668 m		
GOXUL	UL9	51.35890	35,000 ft	8	-
FIX	AWY-HI	-0.17583	10,668 m		
NORRY	L9	51.47970	35,000 ft	36	-
FIX	AWY-LO	-1.12333	10,668 m		
CPT	UL9	51.49160	35,000 ft	3	COMPTON
VOR	AWY-HI	-1.21969	10,668 m		
KENET	UL9	51.52060	35,000 ft	8	-
FIX	AWY-HI	-1.45500	10,668 m		
UGNUS	UN14	51.70890	35,000 ft	27	-
FIX	AWY-HI	-2.13972	10,668 m		
OKTAD	UN14	51.81780	35,000 ft	16	-
FIX	AWY-HI	-2.54611	10,668 m		
TALGA	Q60	51.95830	35,000 ft	27	-
FIX	AWY-HI	-3.24556	10,668 m		
LANON	Q60	52.43110	35,000 ft	50	-
FIX	AWY-HI	-4.37250	10,668 m		
BADSI	UL18	52.65830	35,000 ft	19	-
FIX	AWY-HI	-4.77139	10,668 m		
LIPGO	UL18	53.06390	35,000 ft	35	-
FIX	AWY-HI	-5.50000	10,668 m		
DUB	L18	53.49940	35,000 ft	39	DUBLIN

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-LO	-6.30711	10,668 m		
INKUR	W13	53.59760	35,000 ft	39	-
FIX	AWY-LO	-7.39128	10,668 m		
5400N0900W	-	54.00000	35,000 ft	61	-
LATLON	-	-9.00000	10,668 m		
5400N01000W	-	54.00000	35,000 ft	35	-
LATLON	-	-10.00000	10,668 m		
5400N01100W	-	54.00000	35,000 ft	35	-
LATLON	-	-11.00000	10,668 m		
5400N01200W	-	54.00000	35,000 ft	35	-
LATLON	-	-12.00000	10,668 m		
5400N01300W	-	54.00000	35,000 ft	35	-
LATLON	-	-13.00000	10,668 m		
5400N01400W	-	54.00000	35,000 ft	35	-
LATLON	-	-14.00000	10,668 m		
5400N01500W	-	54.00000	35,000 ft	35	-
LATLON	-	-15.00000	10,668 m		
5400N01600W	-	54.00000	35,000 ft	35	-
LATLON	-	-16.00000	10,668 m		
5500N01800W	-	55.00000	35,000 ft	92	-
LATLON	-	-18.00000	10,668 m		
5500N01900W	-	55.00000	35,000 ft	34	-
LATLON	-	-19.00000	10,668 m		
5500N02000W	-	55.00000	35,000 ft	34	-
LATLON	-	-20.00000	10,668 m		
5500N02100W	-	55.00000	35,000 ft	34	-
LATLON	-	-21.00000	10,668 m		
5500N02200W	-	55.00000	35,000 ft	34	-
LATLON	-	-22.00000	10,668 m		
5500N02300W	-	55.00000	35,000 ft	34	-
LATLON	-	-23.00000	10,668 m		
5500N02400W	-	55.00000	35,000 ft	34	-
LATLON	-	-24.00000	10,668 m		
5500N02500W	-	55.00000	35,000 ft	34	-
LATLON	-	-25.00000	10,668 m		
5500N02600W	-	55.00000	35,000 ft	34	-
LATLON	-	-26.00000	10,668 m		
5500N02700W	-	55.00000	35,000 ft	34	-
LATLON	-	-27.00000	10,668 m		
5500N02800W	-	55.00000	35,000 ft	34	-
LATLON	-	-28.00000	10,668 m		
5500N02900W	-	55.00000	35,000 ft	34	-
LATLON	-	-29.00000	10,668 m		
5500N03000W	-	55.00000	35,000 ft	34	-
LATLON	-	-30.00000	10,668 m		
5500N03100W	-	55.00000	35,000 ft	34	-
LATLON	-	-31.00000	10,668 m		
5500N03200W	-	55.00000	35,000 ft	34	-
LATLON	-	-32.00000	10,668 m		
5500N03300W	-	55.00000	35,000 ft	34	-
LATLON	-	-33.00000	10,668 m		
5500N03400W	-	55.00000	35,000 ft	34	-
LATLON	-	-34.00000	10,668 m		
5500N03500W	-	55.00000	35,000 ft	34	-
LATLON	-	-35.00000	10,668 m		
5500N03600W	-	55.00000	35,000 ft	34	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-36.00000	10,668 m		
5500N03700W	-	55.00000	35,000 ft	34	-
LATLON	-	-37.00000	10,668 m		
5500N03800W	-	55.00000	35,000 ft	34	-
LATLON	-	-38.00000	10,668 m		
5500N03900W	-	55.00000	35,000 ft	34	-
LATLON	-	-39.00000	10,668 m		
5400N04100W	-	54.00000	35,000 ft	92	-
LATLON	-	-41.00000	10,668 m		
5400N04200W	-	54.00000	35,000 ft	35	-
LATLON	-	-42.00000	10,668 m		
5400N04300W	-	54.00000	35,000 ft	35	-
LATLON	-	-43.00000	10,668 m		
5400N04400W	-	54.00000	35,000 ft	35	-
LATLON	-	-44.00000	10,668 m		
5400N04500W	-	54.00000	35,000 ft	35	-
LATLON	-	-45.00000	10,668 m		
5400N04600W	-	54.00000	35,000 ft	35	-
LATLON	-	-46.00000	10,668 m		
5400N04700W	-	54.00000	35,000 ft	35	-
LATLON	-	-47.00000	10,668 m		
5400N04800W	-	54.00000	35,000 ft	35	-
LATLON	-	-48.00000	10,668 m		
5300N05000W	-	53.00000	35,000 ft	93	-
LATLON	-	-50.00000	10,668 m		
5300N05100W	-	53.00000	35,000 ft	36	-
LATLON	-	-51.00000	10,668 m		
5300N05200W	-	53.00000	35,000 ft	36	-
LATLON	-	-52.00000	10,668 m		
5200N05400W	-	52.00000	35,000 ft	94	-
LATLON	-	-54.00000	10,668 m		
RIKAL	-	51.80000	35,000 ft	23	-
FIX	-	-54.53330	10,668 m		
YRI	N440A	47.75650	35,000 ft	630	RIVIERE DU LOUP
VOR	AWY-HI	-69.58870	10,668 m		
ML	V383	47.62340	35,000 ft	30	CHARLEVOIX
NDB	AWY-LO	-70.32440	10,668 m		
DICEN	J553	46.80010	35,000 ft	94	-
FIX	AWY-HI	-72.28900	10,668 m		
MATOR	Q852	46.35060	35,000 ft	51	-
FIX	AWY-HI	-73.33810	10,668 m		
TAMKO	Q852	46.04830	35,000 ft	29	-
FIX	AWY-HI	-73.91080	10,668 m		
KANUR	T636	45.43140	35,000 ft	60	-
FIX	AWY-LO	-75.04360	10,668 m		
TUKIR	Q806	45.25190	35,000 ft	51	-
FIX	AWY-HI	-76.23900	10,668 m		
GOTIP	Q806	44.96420	35,000 ft	35	-
FIX	AWY-HI	-76.96470	10,668 m		
DEBUM	Q806	44.64220	35,000 ft	38	-
FIX	AWY-HI	-77.75500	10,668 m		
ILUSI	Q806	44.14640	35,000 ft	58	-
FIX	AWY-HI	-78.93220	10,668 m		
BOBTA	Q806	43.81440	35,000 ft	37	-
FIX	AWY-HI	-79.65860	10,668 m		
YQO	Q806	42.70680	35,000 ft	85	AYLMER

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	-80.88800	10,668 m		
DOGGS	V443	42.39430	35,000 ft	20	-
FIX	AWY-LO	-81.08120	10,668 m		
CRPSL	V443	42.21680	35,000 ft	11	-
FIX	AWY-LO	-81.19010	10,668 m		
FAILS	V443	41.83780	35,000 ft	24	-
FIX	AWY-LO	-81.42030	10,668 m		
DJB	V443	41.35810	35,000 ft	44	DRYER
VOR	AWY-LO	-82.16200	10,668 m		
BRUNZ	V14	41.21010	35,000 ft	17	-
FIX	AWY-LO	-82.50030	10,668 m		
DUTSH	-	41.14070	35,000 ft	4	-
FIX	-	-82.55350	10,668 m		
KLYNE	Q29	40.69850	35,000 ft	43	-
FIX	AWY-HI	-83.31230	10,668 m		
CREEP	Q29	39.92090	35,000 ft	65	-
FIX	AWY-HI	-84.30870	10,668 m		
SIDAE	Q29	37.33330	35,000 ft	226	-
FIX	AWY-HI	-87.83330	10,668 m		
OMDUE	Q29	36.12980	35,000 ft	90	-
FIX	AWY-HI	-88.96990	10,668 m		
MEM	Q29	35.01510	35,000 ft	83	MEMPHIS
VOR	AWY-HI	-89.98320	10,668 m		
CARIN	J29	34.45420	35,000 ft	55	-
FIX	AWY-HI	-90.88700	10,668 m		
TOZZI	J29	33.87250	35,000 ft	57	-
FIX	AWY-HI	-91.80050	10,668 m		
SUTTN	J29	33.50580	35,000 ft	35	-
FIX	AWY-HI	-92.36480	10,668 m		
ELD	J29	33.25620	35,000 ft	24	EL DORADO
VOR	AWY-HI	-92.74390	10,668 m		
MIXIE	J29	32.72210	35,000 ft	38	-
FIX	AWY-HI	-93.18100	10,668 m		
LURIC	J29	31.78180	27,800 ft	68	-
FIX	AWY-HI	-93.93500	8,473 m		
ENJOY	J29	31.27880	20,000 ft	36	-
FIX	AWY-HI	-94.33030	6,096 m		
KIAH	-	29.98540	0 ft	93	George Bush Intercontinental
APT	-	-95.34120	0 m		

## EDDF

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

Elevation: 362 ft / 110 m  
Location: 50.032600 8.540670  
Magnetic Var: 3.174 E

## METAR

EDDF 111720Z AUTO 07004KT 020V110 CAVOK 23/08 Q1018 NOSIG

## TAF

TAF EDDF 111700Z 1118/1224 05006KT CAVOK BECMG 1208/1211 11008KT BECMG 1219/1221 05004KT

## 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	246.42		0 m	0 m
07C	197 ft	13,134 ft	69.57	ASPHALT	0 ft	203 ft
	60 m	4,003 m	66.40		0 m	62 m
25C	197 ft	13,134 ft	249.61	ASPHALT	0 ft	935 ft
	60 m	4,003 m	246.44		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	66.42		362 m
07L	LOC-ILS	IFNE	111.75 MHz	18 nm	69.58	-	362 ft
				33 km	66.41		362 m
07R	LOC-ILS	IFSE	110.95 MHz	18 nm	69.61	-	362 ft
				33 km	66.44		362 m
25C	LOC-ILS	IFCW	111.55 MHz	18 nm	249.59	-	362 ft
				33 km	246.42		362 m
25L	LOC-ILS	IFSW	111.15 MHz	18 nm	249.61	-	362 ft
				33 km	246.44		362 m
25R	LOC-ILS	IFNW	111.35 MHz	18 nm	249.58	-	362 ft
				33 km	246.41		362 m
07C	GS	IFCE	110.55 MHz	10 nm	69.59	3.00	362 ft
				19 km	66.42		362 m
07L	GS	IFNE	111.75 MHz	10 nm	69.58	3.00	362 ft
				19 km	66.41		362 m
07R	GS	IFSE	110.95 MHz	10 nm	69.61	3.00	362 ft
				19 km	66.44		362 m
25C	GS	IFCW	111.55 MHz	10 nm	249.59	3.00	362 ft
				19 km	246.42		362 m
25L	GS	IFSW	111.15 MHz	10 nm	249.61	3.00	362 ft
				19 km	246.44		362 m
25R	GS	IFNW	111.35 MHz	10 nm	249.58	3.00	362 ft
				19 km	246.41		362 m



## KIAH

Region: UNITED STATES  
Timezone: AMERICA/CHICAGO  
Runways: 5

Elevation: 98 ft / 30 m  
Location: 29.985400 -95.341200  
Magnetic Var: 1.729 E

## METAR

KIAH 111653Z 08013KT 10SM OVC045 26/16 A2998 RMK AO2 SLP150 T02610161

## TAF

TAF KIAH 111720Z 1118/1224 08013KT P6SM OVC045 FM120100 08008KT P6SM VCSH OVC050 FM120600 10006KT P6SM VCTS SCT015

## Frequencies

REC - 124.05 MHz - D-ATIS	REC - 122.95 MHz - UNICOM
CLD - 128.10 MHz - CLEARANCE DELIVERY	GND - 119.95 MHz - HOUSTON GROUND
GND - 121.70 MHz - HOUSTON GROUND	GND - 118.57 MHz - HOUSTON GROUND
TWR - 120.72 MHz - HOUSTON TOWER	TWR - 125.35 MHz - HOUSTON TOWER
TWR - 135.15 MHz - HOUSTON TOWER	TWR - 127.30 MHz - HOUSTON TOWER
APP - 120.05 MHz - HOUSTON APPROACH	APP - 124.35 MHz - HOUSTON APPROACH
DEP - 126.67 MHz - HOUSTON DEPARTURE	DEP - 132.25 MHz - HOUSTON DEPARTURE
DEP - 133.60 MHz - HOUSTON DEPARTURE	DEP - 127.12 MHz - HOUSTON DEPARTURE

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15R	151 ft	10,010 ft	152.07	CONCRETE	0 ft	407 ft
	46 m	3,051 m	150.34		0 m	124 m
33L	151 ft	10,010 ft	332.08	CONCRETE	0 ft	407 ft
	46 m	3,051 m	330.35		0 m	124 m
15L	151 ft	12,013 ft	152.08	CONCRETE	0 ft	413 ft
	46 m	3,662 m	150.35		0 m	126 m
33R	151 ft	12,013 ft	332.09	CONCRETE	0 ft	413 ft
	46 m	3,662 m	330.36		0 m	126 m
08L	151 ft	9,008 ft	89.94	CONCRETE	0 ft	387 ft
	46 m	2,746 m	88.22		0 m	118 m
26R	151 ft	9,008 ft	269.96	CONCRETE	0 ft	387 ft
	46 m	2,746 m	268.23		0 m	118 m
08R	151 ft	9,412 ft	89.96	CONCRETE	0 ft	384 ft
	46 m	2,869 m	88.23		0 m	117 m
26L	151 ft	9,412 ft	269.97	CONCRETE	0 ft	384 ft
	46 m	2,869 m	268.24		0 m	117 m
09	151 ft	10,009 ft	89.95	CONCRETE	0 ft	387 ft
	46 m	3,051 m	88.22		0 m	118 m
27	151 ft	10,009 ft	269.97	CONCRETE	0 ft	387 ft
	46 m	3,051 m	268.24		0 m	118 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
08L	DME	IBZU	111.55 MHz	18 nm	-	-	90 ft
				33 km	-		90 m
08R	DME	IIAH	109.70 MHz	18 nm	-	-	109 ft
				33 km	-		109 m
09	DME	IUYO	110.90 MHz	18 nm	-	-	100 ft
				33 km	-		100 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
26L	DME	IJYV	109.70 MHz	18 nm 33 km	- -	-	109 ft 109 m
26R	DME	IOND	111.55 MHz	18 nm 33 km	- -	-	84 ft 84 m
27	DME	IGHI	110.90 MHz	18 nm 33 km	- -	-	100 ft 100 m
08L	LOC-ILS	IBZU	111.55 MHz	18 nm 33 km	89.95 88.22	-	98 ft 98 m
08R	LOC-ILS	IIAH	109.70 MHz	18 nm 33 km	89.96 88.23	-	98 ft 98 m
09	LOC-ILS	IUYO	110.90 MHz	18 nm 33 km	89.96 88.23	-	98 ft 98 m
15R	LOC-ILS	ILKM	111.15 MHz	18 nm 33 km	152.08 150.35	-	98 ft 98 m
26L	LOC-ILS	IJYV	109.70 MHz	18 nm 33 km	269.96 268.23	-	98 ft 98 m
26R	LOC-ILS	IOND	111.55 MHz	18 nm 33 km	269.95 268.22	-	98 ft 98 m
27	LOC-ILS	IGHI	110.90 MHz	18 nm 33 km	269.96 268.23	-	98 ft 98 m
33R	LOC-ILS	ICDG	111.90 MHz	18 nm 33 km	332.09 330.36	-	98 ft 98 m
08L	GS	IBZU	111.55 MHz	10 nm 19 km	89.95 88.22	3.00	98 ft 98 m
08R	GS	IIAH	109.70 MHz	10 nm 19 km	89.96 88.23	3.00	98 ft 98 m
09	GS	IUYO	110.90 MHz	10 nm 19 km	89.96 88.23	3.00	98 ft 98 m
15R	GS	ILKM	111.15 MHz	10 nm 19 km	152.08 150.35	3.00	98 ft 98 m
26L	GS	IJYV	109.70 MHz	10 nm 19 km	269.96 268.23	3.00	98 ft 98 m
26R	GS	IOND	111.55 MHz	10 nm 19 km	269.95 268.22	3.00	98 ft 98 m
27	GS	IGHI	110.90 MHz	10 nm 19 km	269.96 268.23	3.00	98 ft 98 m
33R	GS	ICDG	111.90 MHz	10 nm 19 km	332.09 330.36	3.00	98 ft 98 m