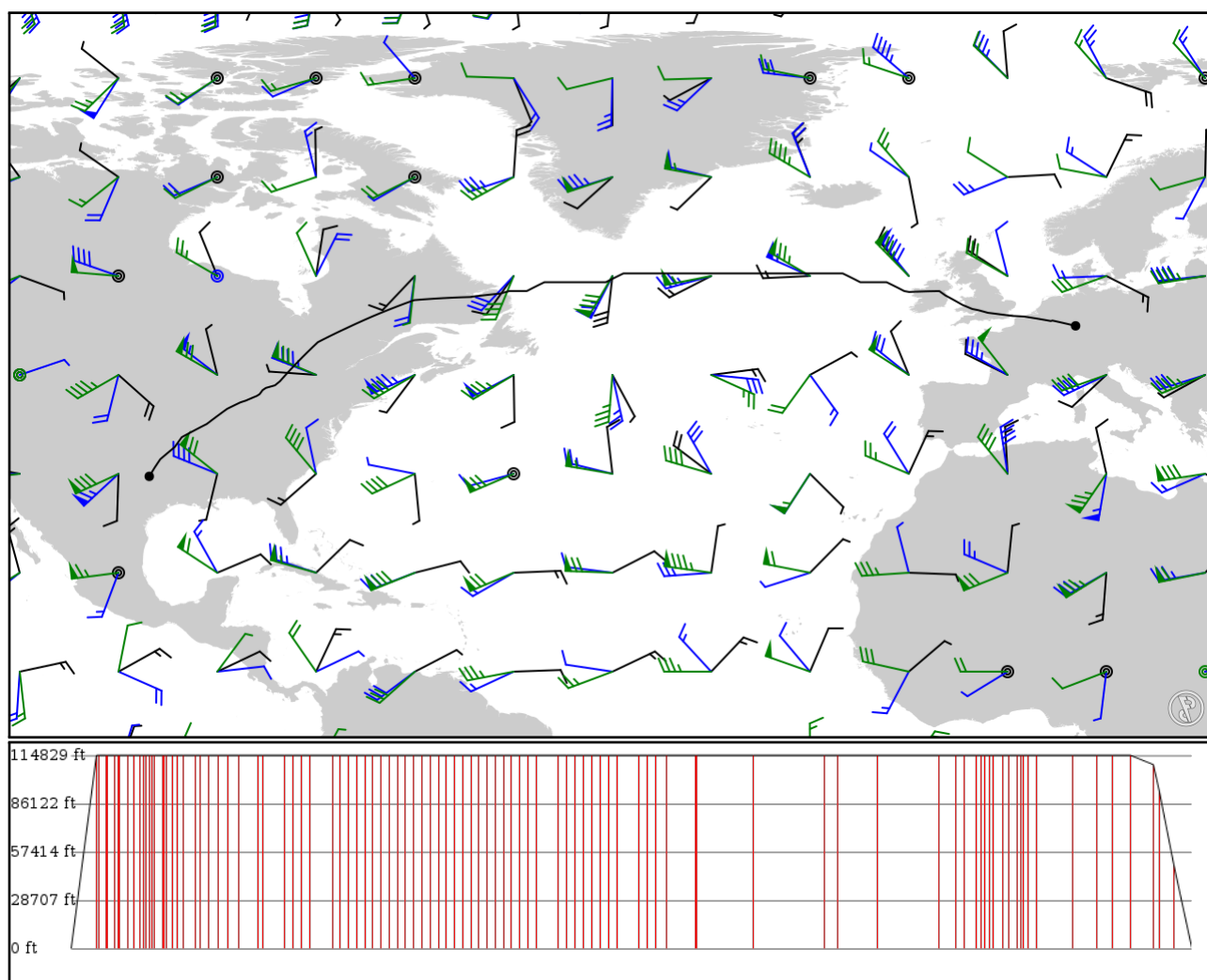


2024/05/15 0426Z

EDDF DINKI **UM170** LNO **L607** KOK KOK **L607** KONAN **L9** BIG **UL9** GOXUL **L9** NORRY **UL9** KENET **UN14** OKTAD **Q60**
 LANON **UL18** LIPGO **L18** SUROX **Q202** DEVOL 5400N0-1100W 5500N0-1300W 5500N0-1400W 5500N0-1500W
 5500N0-1600W 5600N0-1800W 5600N0-1900W 5600N0-2000W 5600N0-2100W 5600N0-2200W 5600N0-2300W
 5600N0-2400W 5600N0-2500W 5600N0-2600W 5600N0-2700W 5600N0-2800W 5600N0-2900W 5600N0-3000W
 5600N0-3100W 5600N0-3200W 5600N0-3300W 5600N0-3400W 5600N0-3500W 5600N0-3600W 5600N0-3700W
 5600N0-3800W 5600N0-3900W 5600N0-4000W 5600N0-4100W 5600N0-4200W 5600N0-4300W 5500N0-4500W
 5500N0-4600W 5500N0-4700W 5500N0-4800W 5500N0-4900W 5500N0-5000W 5500N0-5100W 5500N0-5200W
 5400N0-5400W 5400N0-5500W 5400N0-5600W CA **AR38** YR YR **V39** YWK **J551** MT **J545** YVO **Q923** HOCKE **Q824**
 FNT **V353** JXN **V221** LFD **V233** OXI **V156** MAPPS **V144** RODNY **V233** RBS **J19** STL **J8** SGF **J105** MLC **V63** URH KDFW

4613.86 nm / 8544.86 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		
SUROX	L18	53.99670	35,000 ft	38	-
FIX	AWY-LO	-6.99347	10,668 m		
ENULA	Q202	53.97250	35,000 ft	44	-
FIX	AWY-LO	-8.26444	10,668 m		
DEVOL	Q202	53.89030	35,000 ft	76	-
FIX	AWY-LO	-10.43420	10,668 m		
5400N0-1100W	-	54.00000	35,000 ft	21	-
LATLON	-	-11.00000	10,668 m		
5500N0-1300W	-	55.00000	35,000 ft	92	-
LATLON	-	-13.00000	10,668 m		
5500N0-1400W	-	55.00000	35,000 ft	34	-
LATLON	-	-14.00000	10,668 m		
5500N0-1500W	-	55.00000	35,000 ft	34	-
LATLON	-	-15.00000	10,668 m		
5500N0-1600W	-	55.00000	35,000 ft	34	-
LATLON	-	-16.00000	10,668 m		
5600N0-1800W	-	56.00000	35,000 ft	90	-
LATLON	-	-18.00000	10,668 m		
5600N0-1900W	-	56.00000	35,000 ft	33	-
LATLON	-	-19.00000	10,668 m		
5600N0-2000W	-	56.00000	35,000 ft	33	-
LATLON	-	-20.00000	10,668 m		
5600N0-2100W	-	56.00000	35,000 ft	33	-
LATLON	-	-21.00000	10,668 m		
5600N0-2200W	-	56.00000	35,000 ft	33	-
LATLON	-	-22.00000	10,668 m		
5600N0-2300W	-	56.00000	35,000 ft	33	-
LATLON	-	-23.00000	10,668 m		
5600N0-2400W	-	56.00000	35,000 ft	33	-
LATLON	-	-24.00000	10,668 m		
5600N0-2500W	-	56.00000	35,000 ft	33	-
LATLON	-	-25.00000	10,668 m		
5600N0-2600W	-	56.00000	35,000 ft	33	-
LATLON	-	-26.00000	10,668 m		
5600N0-2700W	-	56.00000	35,000 ft	33	-
LATLON	-	-27.00000	10,668 m		
5600N0-2800W	-	56.00000	35,000 ft	33	-
LATLON	-	-28.00000	10,668 m		
5600N0-2900W	-	56.00000	35,000 ft	33	-
LATLON	-	-29.00000	10,668 m		
5600N0-3000W	-	56.00000	35,000 ft	33	-
LATLON	-	-30.00000	10,668 m		
5600N0-3100W	-	56.00000	35,000 ft	33	-
LATLON	-	-31.00000	10,668 m		
5600N0-3200W	-	56.00000	35,000 ft	33	-
LATLON	-	-32.00000	10,668 m		
5600N0-3300W	-	56.00000	35,000 ft	33	-
LATLON	-	-33.00000	10,668 m		
5600N0-3400W	-	56.00000	35,000 ft	33	-
LATLON	-	-34.00000	10,668 m		
5600N0-3500W	-	56.00000	35,000 ft	33	-
LATLON	-	-35.00000	10,668 m		
5600N0-3600W	-	56.00000	35,000 ft	33	-
LATLON	-	-36.00000	10,668 m		
5600N0-3700W	-	56.00000	35,000 ft	33	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-37.00000	10,668 m		
5600N0-3800W	-	56.00000	35,000 ft	33	-
LATLON	-	-38.00000	10,668 m		
5600N0-3900W	-	56.00000	35,000 ft	33	-
LATLON	-	-39.00000	10,668 m		
5600N0-4000W	-	56.00000	35,000 ft	33	-
LATLON	-	-40.00000	10,668 m		
5600N0-4100W	-	56.00000	35,000 ft	33	-
LATLON	-	-41.00000	10,668 m		
5600N0-4200W	-	56.00000	35,000 ft	33	-
LATLON	-	-42.00000	10,668 m		
5600N0-4300W	-	56.00000	35,000 ft	33	-
LATLON	-	-43.00000	10,668 m		
5500N0-4500W	-	55.00000	35,000 ft	90	-
LATLON	-	-45.00000	10,668 m		
5500N0-4600W	-	55.00000	35,000 ft	34	-
LATLON	-	-46.00000	10,668 m		
5500N0-4700W	-	55.00000	35,000 ft	34	-
LATLON	-	-47.00000	10,668 m		
5500N0-4800W	-	55.00000	35,000 ft	34	-
LATLON	-	-48.00000	10,668 m		
5500N0-4900W	-	55.00000	35,000 ft	34	-
LATLON	-	-49.00000	10,668 m		
5500N0-5000W	-	55.00000	35,000 ft	34	-
LATLON	-	-50.00000	10,668 m		
5500N0-5100W	-	55.00000	35,000 ft	34	-
LATLON	-	-51.00000	10,668 m		
5500N0-5200W	-	55.00000	35,000 ft	34	-
LATLON	-	-52.00000	10,668 m		
5400N0-5400W	-	54.00000	35,000 ft	92	-
LATLON	-	-54.00000	10,668 m		
5400N0-5500W	-	54.00000	35,000 ft	35	-
LATLON	-	-55.00000	10,668 m		
5400N0-5600W	-	54.00000	35,000 ft	35	-
LATLON	-	-56.00000	10,668 m		
CA	-	53.70910	35,000 ft	40	CARTWRIGHT
NDB	-	-57.02100	10,668 m		
YR	AR38	53.33780	35,000 ft	121	GOOSE (GOOSE BAY)
NDB	AWY-LO	-60.36580	10,668 m		
YYR	-	53.31970	35,000 ft	2	GOOSE (GOOSE BAY)
VOR	-	-60.29470	10,668 m		
YWK	V39	52.96010	35,000 ft	237	WABUSH
VOR	AWY-LO	-66.85350	10,668 m		
ILUGO	J551	50.32090	35,000 ft	290	-
FIX	AWY-HI	-73.37970	10,668 m		
MT	J551	49.79960	35,000 ft	53	CHIBOO (CHIBOUGAMAU)
NDB	AWY-HI	-74.49550	10,668 m		
YVO	J545	48.17530	35,000 ft	163	VAL-D'OR
VOR	AWY-HI	-77.82030	10,668 m		
DUTEL	Q923	44.66640	35,000 ft	255	-
FIX	AWY-HI	-81.29640	10,668 m		
KARIT	Q923	43.72310	35,000 ft	67	-
FIX	AWY-HI	-82.14440	10,668 m		
HOCKE	Q923	43.26210	35,000 ft	37	-
FIX	AWY-HI	-82.71060	10,668 m		
FNT	Q824	42.96680	35,000 ft	48	FLINT

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	-83.74700	10,668 m		
QUBEE	V353	42.71050	35,000 ft	22	-
FIX	AWY-LO	-84.12530	10,668 m		
HAVEN	V353	42.54150	35,000 ft	11	-
FIX	AWY-LO	-84.24690	10,668 m		
JXN	V353	42.25920	35,000 ft	19	JACKSON
VOR	AWY-LO	-84.45850	10,668 m		
LFD	V221	42.06250	35,000 ft	18	LITCHFIELD
VOR	AWY-LO	-84.76510	10,668 m		
SEWTO	V233	41.74780	35,000 ft	38	-
FIX	AWY-LO	-85.51130	10,668 m		
GSH	V233	41.52520	35,000 ft	26	GOSHEN
VOR	AWY-LO	-86.02800	10,668 m		
OXI	V233	41.32200	35,000 ft	30	KNOX
VOR	AWY-LO	-86.64930	10,668 m		
MAPPS	V156	41.18160	35,000 ft	15	-
FIX	AWY-LO	-86.94240	10,668 m		
RODNY	V144	41.08150	35,000 ft	11	-
FIX	AWY-LO	-87.14970	10,668 m		
KENLA	V233	40.89630	35,000 ft	20	-
FIX	AWY-LO	-87.52960	10,668 m		
RBS	V233	40.58170	35,000 ft	34	ROBERTS
VOR	AWY-LO	-88.16430	10,668 m		
STL	J19	38.86070	35,000 ft	148	SAINT LOUIS
VOR	AWY-HI	-90.48240	10,668 m		
CROCK	J8	37.97040	35,000 ft	96	-
FIX	AWY-HI	-92.19950	10,668 m		
SGF	J8	37.35590	35,000 ft	65	SPRINGFIELD
VOR	AWY-HI	-93.33400	10,668 m		
RZC	J105	36.24640	35,000 ft	76	RAZORBACK (FAYETTEVILLE)
VOR	AWY-HI	-94.12140	10,668 m		
KLUBB	J105	35.12040	33,300 ft	94	-
FIX	AWY-HI	-95.46670	10,150 m		
MLC	J105	34.84940	28,400 ft	22	MC ALESTER
VOR	AWY-HI	-95.78230	8,656 m		
URH	V63	33.94420	15,100 ft	62	TEXOMA (DURANT)
VOR	AWY-LO	-96.39180	4,602 m		
KDFW	-	32.89720	0 ft	70	Dallas Fort Worth Intl
APT	-	-97.03770	0 m		

EDDF

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

Elevation: 362 ft / 110 m
Location: 50.032600 8.540670
Magnetic Var: 3.175 E

METAR

EDDF 150420Z AUTO 07006KT CAVOK 14/08 Q1005 NOSIG

TAF

TAF EDDF 142300Z 1500/1606 05007KT CAVOK BECMG 1508/1510 13006KT BECMG 1512/1514 22005KT PROB30 TEMPO 1518/1523 3

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

KDFW

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 7

Elevation: 604 ft / 184 m
Location: 32.897200 -97.037700
Magnetic Var: 2.729 E

METAR

KDFW 150353Z 14003KT 10SM CLR 24/15 A2981 RMK A02 SLP087 T02390150

TAF

KDFW 150251Z 1503/1606 15005KT P6SM FEW250 FM151700 17015KT P6SM SCT250

Frequencies

REC - 123.77 MHz - ATIS ARRIVAL	REC - 135.92 MHz - ATIS DEPARTURE
COM - 122.95 MHz - UNICOM	CLD - 128.25 MHz - CLNC DEL
GND - 121.65 MHz - RGNL GND EAST 1	GND - 121.80 MHz - RGNL GND EAST 2
GND - 121.85 MHz - RGNL GND WEST	TWR - 126.55 MHz - RGNL TWR EAST 1
TWR - 127.50 MHz - RGNL TWR EAST 2	TWR - 134.90 MHz - RGNL TWR WEST 1
TWR - 124.15 MHz - RGNL TWR WEST 2	APP - 125.02 MHz - RGNL APP EAST 1
APP - 133.52 MHz - RGNL APP EAST 3	APP - 133.62 MHz - RGNL APP WEST 1
APP - 119.87 MHz - RGNL APP WEST 2	DEP - 118.55 MHz - RGNL DEP EAST 1
DEP - 124.82 MHz - RGNL DEP NORTH 1	DEP - 125.12 MHz - RGNL DEP SOUTH 1
DEP - 126.47 MHz - RGNL DEP WEST 1	

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
17C	151 ft	13,440 ft	180.26	CONCRETE	0 ft	413 ft
	46 m	4,097 m	177.53		0 m	126 m
35C	151 ft	13,440 ft	0.26	CONCRETE	0 ft	299 ft
	46 m	4,097 m	357.53		0 m	91 m
17L	151 ft	8,523 ft	180.25	CONCRETE	0 ft	400 ft
	46 m	2,598 m	177.52		0 m	122 m
35R	151 ft	8,523 ft	0.25	CONCRETE	0 ft	407 ft
	46 m	2,598 m	357.52		0 m	124 m
18R	151 ft	13,439 ft	180.25	CONCRETE	0 ft	404 ft
	46 m	4,096 m	177.52		0 m	123 m
36L	151 ft	13,439 ft	0.25	CONCRETE	0 ft	299 ft
	46 m	4,096 m	357.52		0 m	91 m
17R	200 ft	13,439 ft	180.26	CONCRETE	0 ft	400 ft
	61 m	4,096 m	177.53		0 m	122 m
35L	200 ft	13,439 ft	0.26	CONCRETE	0 ft	400 ft
	61 m	4,096 m	357.53		0 m	122 m
18L	200 ft	13,439 ft	180.25	CONCRETE	0 ft	404 ft
	61 m	4,096 m	177.52		0 m	123 m
36R	200 ft	13,439 ft	0.25	CONCRETE	0 ft	394 ft
	61 m	4,096 m	357.52		0 m	120 m
13R	151 ft	9,309 ft	139.18	CONCRETE	0 ft	397 ft
	46 m	2,837 m	136.45		0 m	121 m
31L	151 ft	9,309 ft	319.19	CONCRETE	0 ft	400 ft
	46 m	2,837 m	316.46		0 m	122 m
13L	200 ft	9,010 ft	135.41	CONCRETE	630 ft	299 ft
	61 m	2,746 m	132.68		192 m	91 m
31R	200 ft	9,010 ft	315.42	CONCRETE	0 ft	299 ft
	61 m	2,746 m	312.69		0 m	91 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
13R	DME	ILWN	109.50 MHz	18 nm	-	-	590 ft
				33 km	-		590 m
17C	DME	IFLQ	110.30 MHz	18 nm	-	-	575 ft
				33 km	-		575 m
17L	DME	IPPZ	111.75 MHz	18 nm	-	-	603 ft
				33 km	-		603 m
17R	DME	IJHZ	111.35 MHz	18 nm	-	-	607 ft
				33 km	-		607 m
18L	DME	ICIX	110.55 MHz	18 nm	-	-	607 ft
				33 km	-		607 m
18R	DME	IVYN	111.90 MHz	18 nm	-	-	584 ft
				33 km	-		584 m
31R	DME	IRRA	110.90 MHz	18 nm	-	-	548 ft
				33 km	-		548 m
35C	DME	IPKQ	110.30 MHz	18 nm	-	-	603 ft
				33 km	-		603 m
35L	DME	IUWX	111.35 MHz	18 nm	-	-	607 ft
				33 km	-		607 m
35R	DME	IAJQ	111.75 MHz	18 nm	-	-	603 ft
				33 km	-		603 m
36L	DME	IBXN	111.90 MHz	18 nm	-	-	584 ft
				33 km	-		584 m
36R	DME	IFJN	110.55 MHz	18 nm	-	-	607 ft
				33 km	-		607 m
13R	LOC-ILS	ILWN	109.50 MHz	18 nm	139.19	-	577 ft
				33 km	136.46		577 m
17C	LOC-ILS	IFLQ	110.30 MHz	18 nm	180.26	-	563 ft
				33 km	177.54		563 m
17L	LOC-ILS	IPPZ	111.75 MHz	18 nm	180.27	-	570 ft
				33 km	177.54		570 m
17R	LOC-ILS	IJHZ	111.35 MHz	18 nm	180.26	-	558 ft
				33 km	177.53		558 m
18L	LOC-ILS	ICIX	110.55 MHz	18 nm	180.25	-	570 ft
				33 km	177.52		570 m
18R	LOC-ILS	IVYN	111.90 MHz	18 nm	180.25	-	580 ft
				33 km	177.52		580 m
31R	LOC-ILS	IRRA	110.90 MHz	18 nm	315.40	-	552 ft
				33 km	312.67		552 m
35C	LOC-ILS	IPKQ	110.30 MHz	18 nm	0.26	-	558 ft
				33 km	357.53		558 m
35L	LOC-ILS	IUWX	111.35 MHz	18 nm	0.26	-	607 ft
				33 km	357.53		607 m
35R	LOC-ILS	IAJQ	111.75 MHz	18 nm	0.27	-	607 ft
				33 km	357.54		607 m
36L	LOC-ILS	IBXN	111.90 MHz	18 nm	0.25	-	598 ft
				33 km	357.52		598 m
36R	LOC-ILS	IFJN	110.55 MHz	18 nm	0.25	-	595 ft
				33 km	357.52		595 m
13R	GS	ILWN	109.50 MHz	10 nm	139.37	3.00	589 ft
				19 km	136.64		589 m
17C	GS	IFLQ	110.30 MHz	10 nm	180.53	3.00	562 ft
				19 km	177.80		562 m
17L	GS	IPPZ	111.75 MHz	10 nm	180.54	3.00	532 ft
				19 km	177.81		532 m
17R	GS	IJHZ	111.35 MHz	10 nm	180.52	3.00	567 ft
				19 km	177.79		567 m
18L	GS	ICIX	110.55 MHz	10 nm	180.49	3.00	594 ft
				19 km	177.76		594 m
18R	GS	IVYN	111.90 MHz	10 nm	180.50	3.00	601 ft
				19 km	177.76		601 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				19 km	177.77		601 m
31R	GS	IRRA	110.90 MHz	10 nm	315.80	3.00	513 ft
				19 km	313.07		513 m
35C	GS	IPKQ	110.30 MHz	10 nm	0.52	3.00	563 ft
				19 km	357.79		563 m
35L	GS	IUWX	111.35 MHz	10 nm	0.52	3.00	564 ft
				19 km	357.79		564 m
35R	GS	IAJQ	111.75 MHz	10 nm	0.54	3.00	565 ft
				19 km	357.81		565 m
36L	GS	IBXN	111.90 MHz	10 nm	0.50	3.00	584 ft
				19 km	357.77		584 m
36R	GS	IFJN	110.55 MHz	10 nm	0.49	3.00	577 ft
				19 km	357.76		577 m