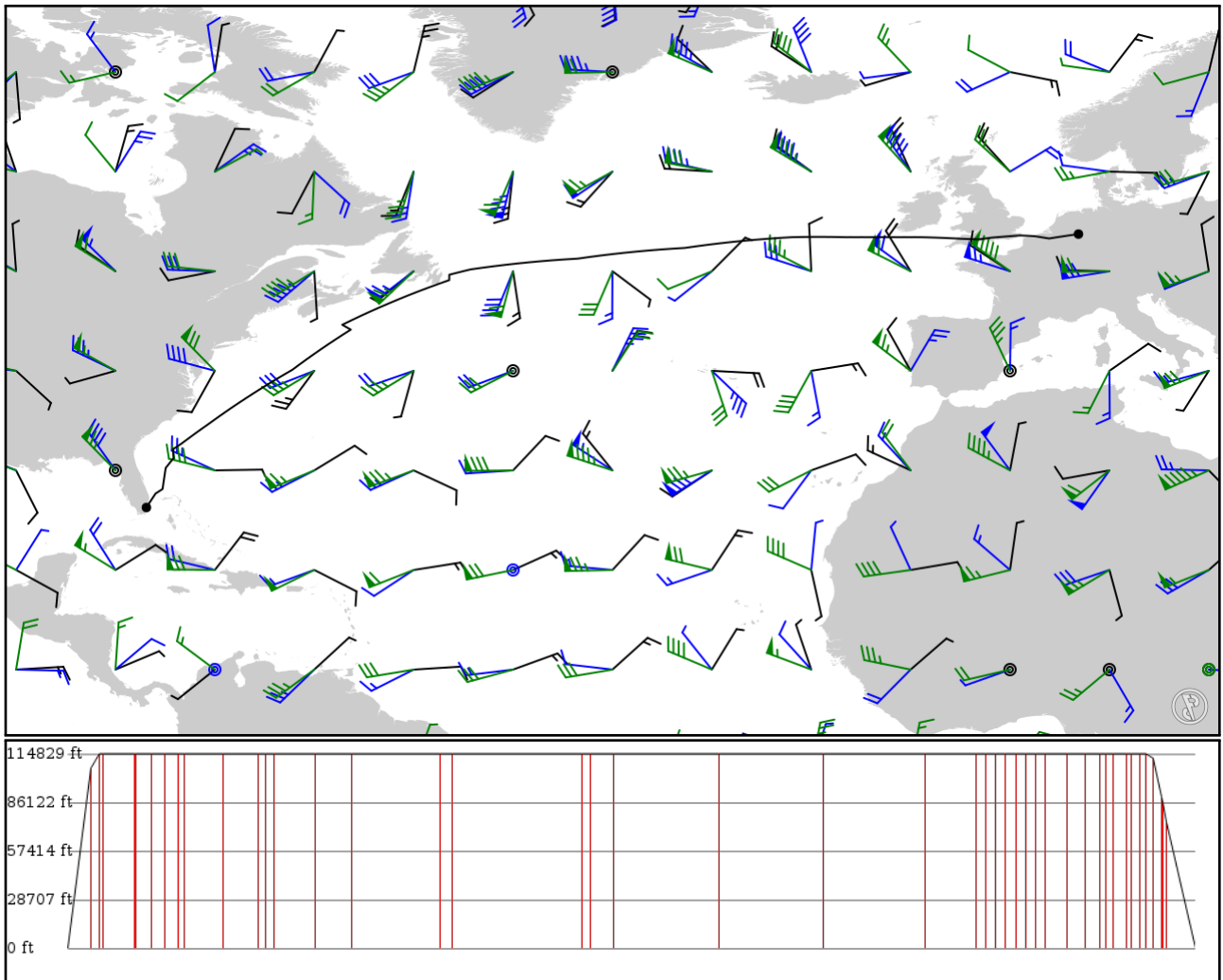


2024/06/13 0129Z

KMIA AMNDA **A699** RAMJT **AR18** ETECK **M202** CARPX **AR3** PERIE **M201** NOVOK GAYBL **N167A** OMSAT NICSO X 50/30
Y 51/20 W ELSOX 5100N01300W 5100N01200W 5100N01100W 5100N01000W 5100N0900W LESLU **N514** BEKDA **N19**
SAM SAM **UM140** DVR **UL9** KONAN **UL607** KOK KOK **L607** DENOX EDDL

4265.78 nm / 7900.23 km



Notes

Using NAT tracks from 24/6/2023

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
KMIA	-	25.79620	0 ft	-	Miami Intl
APT	-	-80.28970	0 m		
AMNDA	-	27.10000	32,400 ft	90	-
FIX	-	-79.43640	9,876 m		
PERMT	A699	27.41420	35,000 ft	32	-
FIX	AWY-HI	-78.94730	10,668 m		
RAMJT	A699	27.52040	35,000 ft	10	-
FIX	AWY-HI	-78.78000	10,668 m		
ETECK	AR18	29.48570	35,000 ft	119	-
FIX	AWY-HI	-78.48730	10,668 m		
CANIT	M202	29.56250	35,000 ft	5	-
FIX	AWY-HI	-78.42580	10,668 m		
CARPX	M202	30.40800	35,000 ft	61	-
FIX	AWY-HI	-77.75000	10,668 m		
PERIE	AR3	31.22860	35,000 ft	49	-
FIX	AWY-HI	-77.79690	10,668 m		
HANRI	M201	31.76460	35,000 ft	51	-
FIX	AWY-HI	-77.00000	10,668 m		
EMQUE	M201	31.99910	35,000 ft	21	-
FIX	AWY-HI	-76.68660	10,668 m		
GALWY	M201	33.58340	35,000 ft	146	-
FIX	AWY-HI	-74.48670	10,668 m		
PAEPR	M201	35.04200	35,000 ft	134	-
FIX	AWY-HI	-72.41660	10,668 m		
VEGAA	M201	35.32320	35,000 ft	26	-
FIX	AWY-HI	-72.00000	10,668 m		
ATUGI	M201	35.63850	35,000 ft	29	-
FIX	AWY-HI	-71.52670	10,668 m		
TILED	M201	37.26610	35,000 ft	157	-
FIX	AWY-HI	-68.97330	10,668 m		
DRYED	M201	38.63230	35,000 ft	136	-
FIX	AWY-HI	-66.66750	10,668 m		
NOVOK	M201	42.38160	35,000 ft	336	-
FIX	AWY-HI	-61.20160	10,668 m		
GAYBL	-	42.83330	35,000 ft	44	-
FIX	-	-62.00000	10,668 m		
OMSAT	N167A	47.00000	35,000 ft	492	-
FIX	AWY-HI	-52.00000	10,668 m		
NICSO	-	47.50000	35,000 ft	30	-
FIX	-	-52.00000	10,668 m		
48/50	X	48.00000	35,000 ft	86	-
LATLON	NAT	-50.00000	10,668 m		
49/40	X	49.00000	35,000 ft	402	-
LATLON	NAT	-40.00000	10,668 m		
50/30	X	50.00000	35,000 ft	394	-
LATLON	NAT	-30.00000	10,668 m		
51/20	Y	51.00000	35,000 ft	386	-
LATLON	NAT	-20.00000	10,668 m		
DINIM	W	51.00000	35,000 ft	188	-
FIX	NAT	-15.00000	10,668 m		
ELSOX	W	51.00000	35,000 ft	37	-
FIX	NAT	-14.00000	10,668 m		
5100N01300W	-	51.00000	35,000 ft	37	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-13.00000	10,668 m		
5100N01200W	-	51.00000	35,000 ft	37	-
LATLON	-	-12.00000	10,668 m		
5100N01100W	-	51.00000	35,000 ft	37	-
LATLON	-	-11.00000	10,668 m		
5100N01000W	-	51.00000	35,000 ft	37	-
LATLON	-	-10.00000	10,668 m		
5100N0900W	-	51.00000	35,000 ft	37	-
LATLON	-	-9.00000	10,668 m		
LESLU	-	51.00000	35,000 ft	37	-
FIX	-	-8.00000	10,668 m		
PAVLO	N514	50.93470	35,000 ft	79	-
FIX	AWY-HI	-5.89556	10,668 m		
DIDEL	N514	50.84310	35,000 ft	72	-
FIX	AWY-HI	-3.99722	10,668 m		
BEKDA	N514	50.79690	35,000 ft	55	-
FIX	AWY-HI	-2.54583	10,668 m		
NULGU	N19	50.87140	35,000 ft	21	-
FIX	AWY-HI	-1.99417	10,668 m		
SAM	N19	50.95520	35,000 ft	25	SOUTHAMPTON
VOR	AWY-HI	-1.34506	10,668 m		
SAM	-	50.95530	35,000 ft	0	SOUTHAMPTON VOR-DME
DME	-	-1.34500	10,668 m		
ROKKE	UM140	51.07000	35,000 ft	52	-
FIX	AWY-HI	0.04500	10,668 m		
PENUX	UM140	51.10890	35,000 ft	19	-
FIX	AWY-HI	0.57000	10,668 m		
DVR	UM140	51.16260	35,000 ft	29	DOVER
VOR	AWY-HI	1.35909	10,668 m		
KONAN	UL9	51.13080	35,000 ft	24	-
FIX	AWY-HI	2.00000	10,668 m		
KOK	UL607	51.09470	34,200 ft	24	KOKSY
VOR	AWY-HI	2.65167	10,424 m		
KOK	-	51.09920	34,200 ft	0	KOKSY VORTAC
DME	-	2.65472	10,424 m		
MAK	L607	50.96440	27,200 ft	32	MACKEL
NDB	AWY-LO	3.49639	8,291 m		
GOLEX	L607	50.94530	26,200 ft	4	-
FIX	AWY-LO	3.61583	7,986 m		
DENOX	L607	50.87940	22,700 ft	16	-
FIX	AWY-LO	4.02778	6,919 m		
EDDL	-	51.28940	0 ft	106	Dusseldorf
APT	-	6.76662	0 m		

KMIA

Region: UNITED STATES
Timezone: AMERICA/NEW_YORK
Runways: 4

Elevation: 11 ft / 3 m
Location: 25.796200 -80.289700
Magnetic Var: 7.282 W

METAR

KMIA 130053Z 20004KT 7SM RA FEW030 SCT065 OVC090 24/23 A2998 RMK A02 SLP152 P0011 T02390228 \$

TAF

KMIA 122321Z 1300/1406 17011KT 6SM -SHRA VCTS SCT020CB BKN035 TEMPO 1300/1303 VRB20G30KT 1SM TSRA BKN010CB FM1303

Frequencies

REC - 119.15 MHz - D-ATIS
COM - 123.00 MHz - UNICOM
GND - 121.80 MHz - MIAMI GROUND
TWR - 118.30 MHz - MIAMI TOWER
APP - 120.50 MHz - MIAMI APPROACH
APP - 125.75 MHz - MIAMI APPROACH
DEP - 125.50 MHz - MIAMI DEPARTURE

REC - 133.67 MHz - D-ATIS
CLD - 135.35 MHz - CLEARANCE DELIVERY
GND - 127.50 MHz - MIAMI GROUND
TWR - 123.90 MHz - MIAMI TOWER
APP - 124.85 MHz - MIAMI APPROACH
DEP - 119.45 MHz - MIAMI DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09	151 ft	13,027 ft	87.37	CONCRETE	1,371 ft	384 ft
	46 m	3,971 m	94.65		418 m	117 m
27	151 ft	13,027 ft	267.39	CONCRETE	276 ft	374 ft
	46 m	3,971 m	274.67		84 m	114 m
08R	200 ft	10,515 ft	87.38	CONCRETE	0 ft	407 ft
	61 m	3,205 m	94.66		0 m	124 m
26L	200 ft	10,515 ft	267.39	CONCRETE	0 ft	407 ft
	61 m	3,205 m	274.67		0 m	124 m
08L	151 ft	8,607 ft	87.38	CONCRETE	0 ft	387 ft
	46 m	2,624 m	94.66		0 m	118 m
26R	151 ft	8,607 ft	267.39	CONCRETE	0 ft	387 ft
	46 m	2,624 m	274.67		0 m	118 m
12	151 ft	9,366 ft	119.61	CONCRETE	0 ft	397 ft
	46 m	2,855 m	126.89		0 m	121 m
30	151 ft	9,366 ft	299.62	CONCRETE	948 ft	0 ft
	46 m	2,855 m	306.90		289 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
08L	DME	IROY	109.30 MHz	18 nm	-	-	8 ft
				33 km	-		8 m
08R	DME	IMFA	110.30 MHz	18 nm	-	-	8 ft
				33 km	-		8 m
12	DME	IGEM	108.90 MHz	18 nm	-	-	14 ft
				33 km	-		14 m
26L	DME	IVIN	109.10 MHz	18 nm	-	-	12 ft
				33 km	-		12 m
26R	DME	ICNV	109.30 MHz	18 nm	-	-	8 ft
				33 km	-		8 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30	DME	IDCX	111.70 MHz	18 nm	-	-	8 ft
				33 km	-		8 m
08R	LOC-ILS	IMFA	110.30 MHz	18 nm	87.37	-	4 ft
				33 km	94.65		4 m
09	LOC-ILS	IBUL	110.90 MHz	18 nm	87.37	-	4 ft
				33 km	94.65		4 m
12	LOC-ILS	IGEM	108.90 MHz	18 nm	119.60	-	4 ft
				33 km	126.88		4 m
26L	LOC-ILS	IVIN	109.10 MHz	18 nm	267.37	-	4 ft
				33 km	274.65		4 m
27	LOC-ILS	IMIA	109.50 MHz	18 nm	267.37	-	4 ft
				33 km	274.65		4 m
30	LOC-ILS	IDCX	111.70 MHz	18 nm	299.60	-	4 ft
				33 km	306.88		4 m
08L	LOC-LOC	IROY	109.30 MHz	18 nm	87.36	-	4 ft
				33 km	94.64		4 m
26R	LOC-LOC	ICNV	109.30 MHz	18 nm	267.36	-	4 ft
				33 km	274.64		4 m
08R	GS	IMFA	110.30 MHz	10 nm	87.37	3.00	4 ft
				19 km	94.65		4 m
09	GS	IBUL	110.90 MHz	10 nm	87.37	3.00	4 ft
				19 km	94.65		4 m
12	GS	IGEM	108.90 MHz	10 nm	119.60	3.00	4 ft
				19 km	126.88		4 m
26L	GS	IVIN	109.10 MHz	10 nm	267.37	3.00	4 ft
				19 km	274.65		4 m
27	GS	IMIA	109.50 MHz	10 nm	267.37	3.00	4 ft
				19 km	274.65		4 m
30	GS	IDCX	111.70 MHz	10 nm	299.60	3.00	4 ft
				19 km	306.88		4 m

EDDL

Region: GERMANY - CIVIL
Timezone: EUROPE/BERLIN
Runways: 2

Elevation: 145 ft / 44 m
Location: 51.289400 6.766620
Magnetic Var: 2.690 E

METAR

EDDL 130120Z AUTO VRB02KT CAVOK 08/06 Q1019 NOSIG

TAF

TAF EDDL 122300Z 1300/1406 VRB03KT CAVOK BECMG 1305/1308 15005KT BECMG 1308/1311 21009KT BECMG 1319/1322 15006KT

Frequencies

REC - 123.77 MHz - ATIS	CLD - 121.77 MHz - CLEARANCE DELIVERY
GND - 121.90 MHz - GROUND	GND - 121.60 MHz - GROUND
GND - 121.67 MHz - GROUND	TWR - 118.30 MHz - TOWER
TWR - 124.35 MHz - TOWER	APP - 128.55 MHz - LANGEN RADAR
APP - 121.35 MHz - LANGEN RADAR	APP - 128.50 MHz - LANGEN RADAR
APP - 128.65 MHz - DUSSELDORF DIRECTOR	DEP - 133.77 MHz - DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
05R	148 ft	9,851 ft	52.68	CONCRETE	984 ft	659 ft
	45 m	3,003 m	49.99		300 m	201 m
23L	148 ft	9,851 ft	232.71	CONCRETE	984 ft	702 ft
	45 m	3,003 m	230.02		300 m	214 m
05L	148 ft	8,866 ft	52.68	CONCRETE	994 ft	906 ft
	45 m	2,702 m	49.99		303 m	276 m
23R	148 ft	8,866 ft	232.70	CONCRETE	971 ft	928 ft
	45 m	2,702 m	230.01		296 m	283 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
05L	LOC-ILS	IDNE	110.95 MHz	18 nm	52.69	-	145 ft
				33 km	50.00		145 m
05R	LOC-ILS	IDSE	110.15 MHz	18 nm	52.70	-	145 ft
				33 km	50.01		145 m
23L	LOC-ILS	IDSW	109.90 MHz	18 nm	232.70	-	145 ft
				33 km	230.01		145 m
23R	LOC-ILS	IDNW	109.30 MHz	18 nm	232.69	-	145 ft
				33 km	230.00		145 m
05L	GS	IDNE	110.95 MHz	10 nm	52.69	3.00	145 ft
				19 km	50.00		145 m
05R	GS	IDSE	110.15 MHz	10 nm	52.70	3.00	145 ft
				19 km	50.01		145 m
23L	GS	IDSW	109.90 MHz	10 nm	232.70	3.00	145 ft
				19 km	230.01		145 m
23R	GS	IDNW	109.30 MHz	10 nm	232.69	3.00	145 ft
				19 km	230.00		145 m