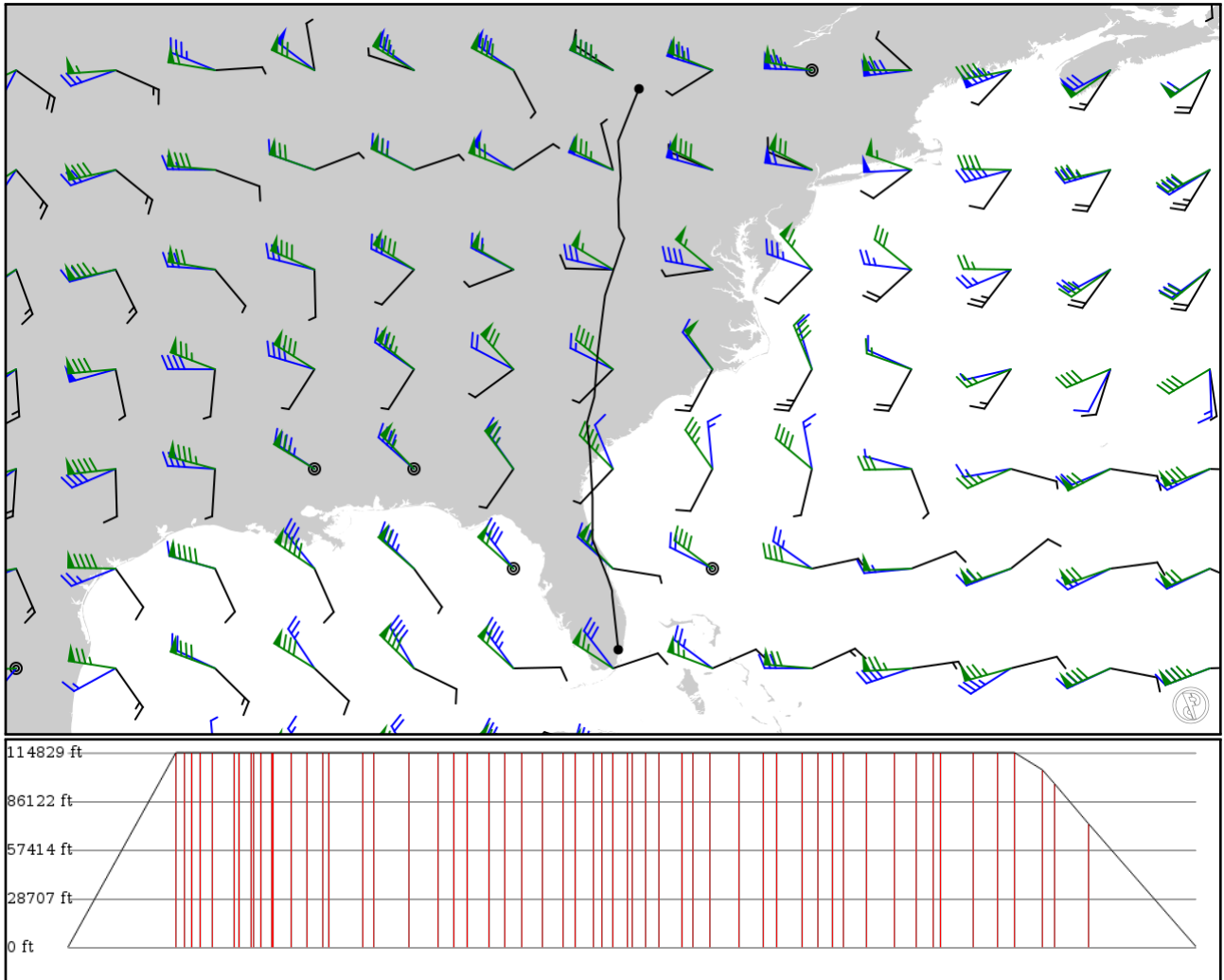


2024/05/05 0923Z

KMIA BIWIK V159 TRV V3 OMN V437 KELER V3 SAV V37 EKN V103 CKB V37 ERI CYYZ

1091.93 nm / 2022.25 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: no
- Use low airways: yes
- Use high airways: no

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KMIA	-	25.79620	0 ft	-	Miami Intl
APT	-	-80.28970	0 m		
BIWIK	-	27.52810	35,000 ft	104	-
FIX	-	-80.48380	10,668 m		
TRV	V159	27.67840	35,000 ft	9	TREASURE (VERO BEACH)
VOR	AWY-LO	-80.48970	10,668 m		
MLBSO	V3	27.79040	35,000 ft	7	-
FIX	AWY-LO	-80.52780	10,668 m		
VALKA	V3	27.91840	35,000 ft	8	-
FIX	AWY-LO	-80.57140	10,668 m		
MLB	V3	28.10530	35,000 ft	11	MELBOURNE
VOR	AWY-LO	-80.63530	10,668 m		
INDIA	V3	28.43450	35,000 ft	20	-
FIX	AWY-LO	-80.76540	10,668 m		
TICCO	V3	28.51680	35,000 ft	5	-
FIX	AWY-LO	-80.79800	10,668 m		
MALET	V3	28.69160	35,000 ft	11	-
FIX	AWY-LO	-80.86790	10,668 m		
FORNI	V3	28.73460	35,000 ft	2	-
FIX	AWY-LO	-80.88460	10,668 m		
OAKIE	V3	28.85120	35,000 ft	7	-
FIX	AWY-LO	-80.93120	10,668 m		
SMYRA	V3	29.00540	35,000 ft	9	-
FIX	AWY-LO	-80.99290	10,668 m		
MIKBE	V3	29.01960	35,000 ft	0	-
FIX	AWY-LO	-80.99860	10,668 m		
OMN	V3	29.30330	35,000 ft	18	ORMOND BEACH
VOR	AWY-LO	-81.11270	10,668 m		
COKES	V437	29.55490	35,000 ft	15	-
FIX	AWY-LO	-81.11270	10,668 m		
COBOK	V437	29.80850	35,000 ft	15	-
FIX	AWY-LO	-81.11270	10,668 m		
JETSO	V437	29.90890	35,000 ft	6	-
FIX	AWY-LO	-81.11270	10,668 m		
SUBER	V437	30.45680	35,000 ft	32	-
FIX	AWY-LO	-81.11260	10,668 m		
HOTAR	V437	30.63980	35,000 ft	10	-
FIX	AWY-LO	-81.11270	10,668 m		
STARY	V437	31.20130	35,000 ft	33	-
FIX	AWY-LO	-81.14460	10,668 m		
CATHY	V437	31.66990	35,000 ft	28	-
FIX	AWY-LO	-81.17150	10,668 m		
KELER	V437	31.91870	35,000 ft	14	-
FIX	AWY-LO	-81.18590	10,668 m		
SAV	V3	32.14630	35,000 ft	13	SAVANNAH
VOR	AWY-LO	-81.19910	10,668 m		
TILLS	V37	32.47890	35,000 ft	20	-
FIX	AWY-LO	-81.23470	10,668 m		
WIXON	V37	32.74280	35,000 ft	15	-
FIX	AWY-LO	-81.26300	10,668 m		
ALD	V37	33.01250	35,000 ft	16	ALLENDAL
VOR	AWY-LO	-81.29220	10,668 m		
NORMS	V37	33.34510	35,000 ft	20	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-81.19900	10,668 m		
SALLY	V37	33.66230	35,000 ft	19	-
FIX	AWY-LO	-81.10930	10,668 m		
CAE	V37	33.85730	35,000 ft	12	COLUMBIA
VOR	AWY-LO	-81.05390	10,668 m		
BEFTY	V37	34.14020	35,000 ft	17	-
FIX	AWY-LO	-81.03250	10,668 m		
BLOTS	V37	34.28320	35,000 ft	8	-
FIX	AWY-LO	-81.02160	10,668 m		
GREAT	V37	34.45710	35,000 ft	10	-
FIX	AWY-LO	-81.00830	10,668 m		
RICHE	V37	34.69840	35,000 ft	14	-
FIX	AWY-LO	-80.98980	10,668 m		
ZUKUR	V37	34.77070	35,000 ft	4	-
FIX	AWY-LO	-80.98430	10,668 m		
CIBOB	V37	34.99040	35,000 ft	13	-
FIX	AWY-LO	-80.96730	10,668 m		
CLT	V37	35.19030	35,000 ft	12	CHARLOTTE
VOR	AWY-LO	-80.95180	10,668 m		
MOPED	V37	35.57120	35,000 ft	22	-
FIX	AWY-LO	-80.90470	10,668 m		
OWALT	V37	35.74950	35,000 ft	10	-
FIX	AWY-LO	-80.88260	10,668 m		
JOTTA	V37	36.01470	35,000 ft	16	-
FIX	AWY-LO	-80.84940	10,668 m		
MEGXE	V37	36.49010	35,000 ft	28	-
FIX	AWY-LO	-80.78940	10,668 m		
DOILY	V37	36.87130	35,000 ft	23	-
FIX	AWY-LO	-80.74070	10,668 m		
PSK	V37	37.08770	35,000 ft	13	PULASKI (DUBLIN)
VOR	AWY-LO	-80.71290	10,668 m		
ZOOMS	V37	37.47560	35,000 ft	24	-
FIX	AWY-LO	-80.58520	10,668 m		
PEEBE	V37	37.71810	35,000 ft	15	-
FIX	AWY-LO	-80.50470	10,668 m		
FRETT	V37	37.96060	35,000 ft	15	-
FIX	AWY-LO	-80.42360	10,668 m		
OAKLE	V37	38.12050	35,000 ft	10	-
FIX	AWY-LO	-80.36250	10,668 m		
HAWKI	V37	38.47910	35,000 ft	22	-
FIX	AWY-LO	-80.24840	10,668 m		
EKN	V37	38.91440	35,000 ft	27	ELKINS
VOR	AWY-LO	-80.09930	10,668 m		
CKB	V103	39.25320	35,000 ft	21	CLARKSBURG
VOR	AWY-LO	-80.26790	10,668 m		
METZE	V37	39.52710	35,000 ft	16	-
FIX	AWY-LO	-80.27410	10,668 m		
TEDDS	V37	39.63850	35,000 ft	6	-
FIX	AWY-LO	-80.27610	10,668 m		
AKSAR	V37	40.15930	35,000 ft	31	-
FIX	AWY-LO	-80.28740	10,668 m		
CETPU	V37	40.55940	35,000 ft	24	-
FIX	AWY-LO	-80.24210	10,668 m		
EWC	V37	40.82490	35,000 ft	16	ELLWOOD CITY
VOR	AWY-LO	-80.21150	10,668 m		
MERCY	V37	41.26610	31,900 ft	26	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-LO	-80.23610	9,723 m		
HAGAR	V37	41.46070	29,400 ft	11	-
FIX	AWY-LO	-80.25450	8,961 m		
ERI	V37	42.01740	22,200 ft	33	ERIE
VOR	AWY-LO	-80.29270	6,767 m		
CYYZ	-	43.67610	0 ft	103	Toronto Pearson Intl
APT	-	-79.62770	0 m		

## KMIA

Region: UNITED STATES  
Timezone: AMERICA/NEW\_YORK  
Runways: 4

Elevation: 11 ft / 3 m  
Location: 25.796200 -80.289700  
Magnetic Var: 7.272 W

## METAR

KMIA 050853Z 10010KT 10SM FEW023 SCT035 25/20 A2999 RMK A02 SLP155 T02500200 56004 \$

## TAF

KMIA 050836Z 0509/0612 10009KT P6SM FEW030 FM051300 11013G23KT P6SM SCT025 FM060300 09008KT P6SM FEW030 SCT250

## Frequencies

REC - 119.15 MHz - D-ATIS	REC - 133.67 MHz - D-ATIS
COM - 123.00 MHz - UNICOM	CLD - 135.35 MHz - CLEARANCE DELIVERY
GND - 121.80 MHz - MIAMI GROUND	GND - 127.50 MHz - MIAMI GROUND
TWR - 118.30 MHz - MIAMI TOWER	TWR - 123.90 MHz - MIAMI TOWER
APP - 120.50 MHz - MIAMI APPROACH	APP - 124.85 MHz - MIAMI APPROACH
APP - 125.75 MHz - MIAMI APPROACH	DEP - 119.45 MHz - MIAMI DEPARTURE
DEP - 125.50 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	94.64		418 m	117 m
27	151 ft	13,027 ft	267.39	CONCRETE	276 ft	374 ft
	46 m	3,971 m	274.66		84 m	114 m
08R	200 ft	10,515 ft	87.38	CONCRETE	0 ft	407 ft
	61 m	3,205 m	94.65		0 m	124 m
26L	200 ft	10,515 ft	267.39	CONCRETE	0 ft	407 ft
	61 m	3,205 m	274.66		0 m	124 m
08L	151 ft	8,607 ft	87.38	CONCRETE	0 ft	387 ft
	46 m	2,624 m	94.65		0 m	118 m
26R	151 ft	8,607 ft	267.39	CONCRETE	0 ft	387 ft
	46 m	2,624 m	274.66		0 m	118 m
12	151 ft	9,366 ft	119.61	CONCRETE	0 ft	397 ft
	46 m	2,855 m	126.88		0 m	121 m
30	151 ft	9,366 ft	299.62	CONCRETE	948 ft	0 ft
	46 m	2,855 m	306.89		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	94.64		4 m
09	LOC-ILS	IBUL	110.90 MHz	18 nm	87.37	-	4 ft
				33 km	94.64		4 m
12	LOC-ILS	IGEM	108.90 MHz	18 nm	119.60	-	4 ft
				33 km	126.87		4 m
26L	LOC-ILS	IVIN	109.10 MHz	18 nm	267.37	-	4 ft
				33 km	274.64		4 m
27	LOC-ILS	IMIA	109.50 MHz	18 nm	267.37	-	4 ft
				33 km	274.64		4 m
30	LOC-ILS	IDCX	111.70 MHz	18 nm	299.60	-	4 ft
				33 km	306.87		4 m
08L	LOC-LOC	IROY	109.30 MHz	18 nm	87.36	-	4 ft
				33 km	94.63		4 m
26R	LOC-LOC	ICNV	109.30 MHz	18 nm	267.36	-	4 ft
				33 km	274.63		4 m
08R	GS	IMFA	110.30 MHz	10 nm	87.37	3.00	4 ft
				19 km	94.64		4 m
09	GS	IBUL	110.90 MHz	10 nm	87.37	3.00	4 ft
				19 km	94.64		4 m
12	GS	IGEM	108.90 MHz	10 nm	119.60	3.00	4 ft
				19 km	126.87		4 m
26L	GS	IVIN	109.10 MHz	10 nm	267.37	3.00	4 ft
				19 km	274.64		4 m
27	GS	IMIA	109.50 MHz	10 nm	267.37	3.00	4 ft
				19 km	274.64		4 m
30	GS	IDCX	111.70 MHz	10 nm	299.60	3.00	4 ft
				19 km	306.87		4 m

## CYYZ

Region: CANADA  
Timezone: AMERICA/TORONTO  
Runways: 5

Elevation: 564 ft / 172 m  
Location: 43.676100 -79.627700  
Magnetic Var: 10.261 W

## METAR

CYYZ 050900Z 13004KT 3SM -RA BR OVC003 11/11 A2995 RMK ST8 SLP144

## TAF

TAF AMD CYYZ 050846Z 0509/0612 13008KT P6SM OVC015 TEMPO 0509/0512 4SM -RA -DZ BR BKN002 OVC010 FM051200 14008KT 3

## Frequencies

TWR - 118.35 MHz - TORONTO TOWER	TWR - 118.70 MHz - TORONTO TOWER
GND - 119.10 MHz - TORONTO GROUND	GND - 121.65 MHz - TORONTO GROUND
GND - 121.90 MHz - TORONTO GROUND	REC - 120.82 MHz - ATIS
REC - 133.10 MHz - ATIS	CLD - 121.30 MHz - CLEARANCE DELIVERY
APP - 132.80 MHz - TORONTO APPROACH	APP - 124.47 MHz - TORONTO APPROACH
APP - 125.40 MHz - TORONTO APPROACH	APP - 123.27 MHz - LONDON RADIO
DEP - 127.57 MHz - TORONTO DEPARTURE	DEP - 128.80 MHz - TORONTO DEPARTURE

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
06L	197 ft	9,707 ft	46.43	ASPHALT	0 ft	131 ft
	60 m	2,959 m	56.69		0 m	40 m
24R	197 ft	9,707 ft	226.45	ASPHALT	194 ft	98 ft
	60 m	2,959 m	236.71		59 m	30 m
06R	197 ft	9,007 ft	46.43	ASPHALT	0 ft	95 ft
	60 m	2,745 m	56.69		0 m	29 m
24L	197 ft	9,007 ft	226.45	ASPHALT	0 ft	95 ft
	60 m	2,745 m	236.71		0 m	29 m
05	197 ft	11,128 ft	46.39	ASPHALT	141 ft	141 ft
	60 m	3,392 m	56.65		43 m	43 m
23	197 ft	11,128 ft	226.41	ASPHALT	492 ft	141 ft
	60 m	3,392 m	236.67		150 m	43 m
15L	197 ft	11,061 ft	136.64	ASPHALT	0 ft	92 ft
	60 m	3,372 m	146.90		0 m	28 m
33R	197 ft	11,061 ft	316.66	ASPHALT	0 ft	89 ft
	60 m	3,372 m	326.92		0 m	27 m
15R	197 ft	9,097 ft	136.62	ASPHALT	597 ft	0 ft
	60 m	2,773 m	146.88		182 m	0 m
33L	197 ft	9,097 ft	316.64	ASPHALT	591 ft	0 ft
	60 m	2,773 m	326.90		180 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
24L	DME	IIDP	111.95 MHz	18 nm	-	-	568 ft
				33 km	-		568 m
24R	DME	INV	109.30 MHz	18 nm	-	-	546 ft
				33 km	-		546 m
05	LOC-ILS	ITX	109.70 MHz	18 nm	46.40	-	564 ft
				33 km	56.66		564 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
06L	LOC-ILS	IJS	109.10 MHz	18 nm 33 km	46.44 56.70	-	564 ft 564 m
06R	LOC-ILS	ICV	111.95 MHz	18 nm 33 km	46.44 56.70	-	564 ft 564 m
15L	LOC-ILS	IRW	110.50 MHz	18 nm 33 km	136.65 146.91	-	564 ft 564 m
15R	LOC-ILS	ILP	110.95 MHz	18 nm 33 km	136.63 146.89	-	564 ft 564 m
23	LOC-ILS	IYZ	111.50 MHz	18 nm 33 km	226.40 236.66	-	564 ft 564 m
24L	LOC-ILS	IDP	111.95 MHz	18 nm 33 km	226.44 236.70	-	564 ft 564 m
24R	LOC-ILS	INV	109.30 MHz	18 nm 33 km	226.44 236.70	-	564 ft 564 m
33L	LOC-ILS	ITO	110.95 MHz	18 nm 33 km	316.63 326.89	-	564 ft 564 m
33R	LOC-ILS	ILE	110.30 MHz	18 nm 33 km	316.65 326.91	-	564 ft 564 m
05	GS	ITX	109.70 MHz	10 nm 19 km	46.40 56.66	3.00	564 ft 564 m
06L	GS	IJS	109.10 MHz	10 nm 19 km	46.44 56.70	3.00	564 ft 564 m
06R	GS	ICV	111.95 MHz	10 nm 19 km	46.44 56.70	3.00	564 ft 564 m
15L	GS	IRW	110.50 MHz	10 nm 19 km	136.65 146.91	3.00	564 ft 564 m
15R	GS	ILP	110.95 MHz	10 nm 19 km	136.63 146.89	3.00	564 ft 564 m
23	GS	IYZ	111.50 MHz	10 nm 19 km	226.40 236.66	3.00	564 ft 564 m
24L	GS	IIDP	111.95 MHz	10 nm 19 km	226.44 236.70	3.00	564 ft 564 m
24R	GS	INV	109.30 MHz	10 nm 19 km	226.44 236.70	3.00	564 ft 564 m
33L	GS	ITO	110.95 MHz	10 nm 19 km	316.63 326.89	3.00	564 ft 564 m
33R	GS	ILE	110.30 MHz	10 nm 19 km	316.65 326.91	3.00	564 ft 564 m