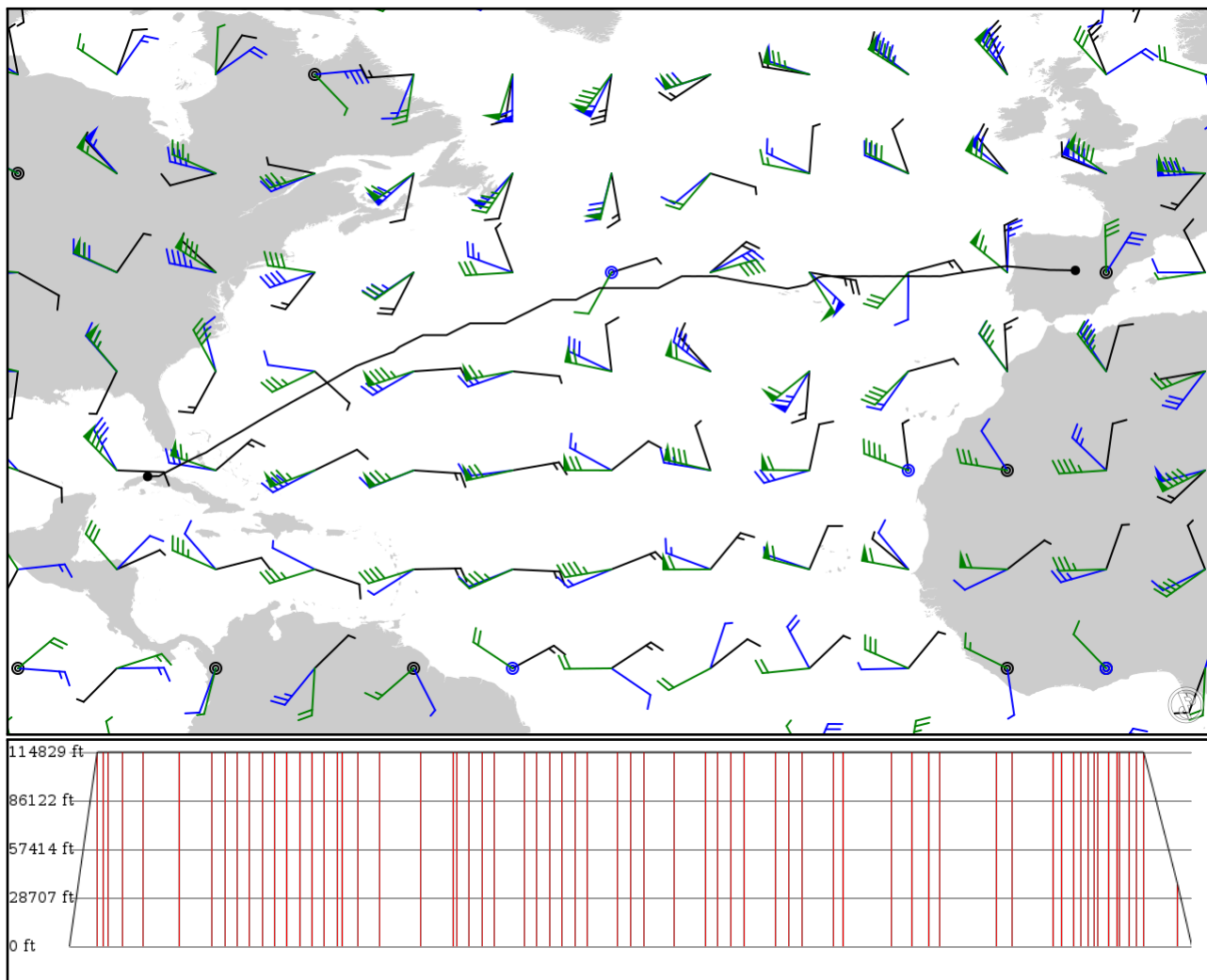


2024/05/07 2241Z

LEMD RIDAV **UM191** BARDI **B47** RIVRO **UM191** DIRMA **UZ25** ERPES 4000N01600W 4000N01700W 4000N01800W
4000N01900W 4000N02000W 4000N02100W 4000N02200W 4000N02300W 4000N02400W 4000N02500W ANAVA **H122**
DOLER LADOX **H124** FRS **H142** KOKER 4000N03400W 4000N03500W 4000N03600W 4000N03700W 3900N03900W
3900N04000W 3900N04100W 3900N04200W 3900N04300W 3900N04400W 3800N04600W 3800N04700W 3800N04800W
3700N05000W 3600N05200W 3600N05300W 3600N05400W 3600N05500W 3500N05700W 3500N05800W 3500N05900W
3400N06100W LAZEY **M329** GRATX **B646** ZQA **R628** TANIA **UR628** UVA MUHA

4138.17 nm / 7663.90 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
LEMD APT	-	40.49530 -3.56020	0 ft 0 m	-	Adolfo Suárez Madrid-Barajas
RIDAV FIX	-	40.53530 -5.80828	35,000 ft 10,668 m	102	-
BARDI FIX	UM191 AWY-HI	40.58350 -6.30244	35,000 ft 10,668 m	22	-
RIVRO FIX	B47 AWY-LO	40.62280 -6.72275	35,000 ft 10,668 m	19	-
VIS VOR	UM191 AWY-HI	40.72340 -7.88583	35,000 ft 10,668 m	53	WISEU
DIRMA FIX	UM191 AWY-HI	40.85170 -9.50083	35,000 ft 10,668 m	73	-
SOPOP FIX	UZ25 AWY-HI	40.44000 -12.38670	35,000 ft 10,668 m	133	-
ERPES FIX	UZ25 AWY-HI	40.00000 -15.00000	35,000 ft 10,668 m	122	-
4000N01600W LATLON	-	40.00000 -16.00000	35,000 ft 10,668 m	46	-
4000N01700W LATLON	-	40.00000 -17.00000	35,000 ft 10,668 m	46	-
4000N01800W LATLON	-	40.00000 -18.00000	35,000 ft 10,668 m	46	-
4000N01900W LATLON	-	40.00000 -19.00000	35,000 ft 10,668 m	46	-
4000N02000W LATLON	-	40.00000 -20.00000	35,000 ft 10,668 m	46	-
4000N02100W LATLON	-	40.00000 -21.00000	35,000 ft 10,668 m	46	-
4000N02200W LATLON	-	40.00000 -22.00000	35,000 ft 10,668 m	46	-
4000N02300W LATLON	-	40.00000 -23.00000	35,000 ft 10,668 m	46	-
4000N02400W LATLON	-	40.00000 -24.00000	35,000 ft 10,668 m	46	-
4000N02500W LATLON	-	40.00000 -25.00000	35,000 ft 10,668 m	46	-
ANAVA FIX	-	39.89940 -25.40890	35,000 ft 10,668 m	19	-
DOLER FIX	H122 AWY-HI	39.26810 -26.38000	35,000 ft 10,668 m	58	-
LADOX FIX	-	38.94720 -28.02110	35,000 ft 10,668 m	78	-
FRS VOR	H124 AWY-HI	39.45360 -31.21040	35,000 ft 10,668 m	151	FLORES
KOKER FIX	H142 AWY-HI	39.90580 -33.73390	35,000 ft 10,668 m	119	-
4000N03400W LATLON	-	40.00000 -34.00000	35,000 ft 10,668 m	13	-
4000N03500W LATLON	-	40.00000 -35.00000	35,000 ft 10,668 m	46	-
4000N03600W LATLON	-	40.00000 -36.00000	35,000 ft 10,668 m	46	-
4000N03700W	-	40.00000	35,000 ft	46	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-37.00000	10,668 m		
3900N03900W	-	39.00000	35,000 ft	110	-
LATLON	-	-39.00000	10,668 m		
3900N04000W	-	39.00000	35,000 ft	46	-
LATLON	-	-40.00000	10,668 m		
3900N04100W	-	39.00000	35,000 ft	46	-
LATLON	-	-41.00000	10,668 m		
3900N04200W	-	39.00000	35,000 ft	46	-
LATLON	-	-42.00000	10,668 m		
3900N04300W	-	39.00000	35,000 ft	46	-
LATLON	-	-43.00000	10,668 m		
3900N04400W	-	39.00000	35,000 ft	46	-
LATLON	-	-44.00000	10,668 m		
3800N04600W	-	38.00000	35,000 ft	111	-
LATLON	-	-46.00000	10,668 m		
3800N04700W	-	38.00000	35,000 ft	47	-
LATLON	-	-47.00000	10,668 m		
3800N04800W	-	38.00000	35,000 ft	47	-
LATLON	-	-48.00000	10,668 m		
3700N05000W	-	37.00000	35,000 ft	112	-
LATLON	-	-50.00000	10,668 m		
3600N05200W	-	36.00000	35,000 ft	113	-
LATLON	-	-52.00000	10,668 m		
3600N05300W	-	36.00000	35,000 ft	48	-
LATLON	-	-53.00000	10,668 m		
3600N05400W	-	36.00000	35,000 ft	48	-
LATLON	-	-54.00000	10,668 m		
3600N05500W	-	36.00000	35,000 ft	48	-
LATLON	-	-55.00000	10,668 m		
3500N05700W	-	35.00000	35,000 ft	114	-
LATLON	-	-57.00000	10,668 m		
3500N05800W	-	35.00000	35,000 ft	49	-
LATLON	-	-58.00000	10,668 m		
3500N05900W	-	35.00000	35,000 ft	49	-
LATLON	-	-59.00000	10,668 m		
3400N06100W	-	34.00000	35,000 ft	115	-
LATLON	-	-61.00000	10,668 m		
LAZEY	-	33.58900	35,000 ft	34	-
FIX	-	-61.48500	10,668 m		
BDA	M329	32.36440	35,000 ft	177	BERMUDA
VOR	AWY-HI	-64.68960	10,668 m		
ROOFE	M329	31.67470	35,000 ft	75	-
FIX	AWY-HI	-65.91770	10,668 m		
CATZZ	M329	31.08250	35,000 ft	63	-
FIX	AWY-HI	-66.94170	10,668 m		
BALTN	M329	30.69030	35,000 ft	41	-
FIX	AWY-HI	-67.60550	10,668 m		
BOREX	M329	28.85140	35,000 ft	207	-
FIX	AWY-HI	-70.96680	10,668 m		
KASAR	M329	28.32170	35,000 ft	59	-
FIX	AWY-HI	-71.91930	10,668 m		
GRATX	M329	26.91130	35,000 ft	152	-
FIX	AWY-HI	-74.29170	10,668 m		
CLETT	B646	26.63940	35,000 ft	30	-
FIX	AWY-HI	-74.76600	10,668 m		
LASEE	B646	26.23920	35,000 ft	44	-

Ident Type	Via	Lat Lon	Alt		Dist (nm)	Name
FIX	AWY-HI	-75.45780	10,668 m			
DAAST	B646	26.00870	35,000 ft	25	-	
FIX	AWY-HI	-75.85160	10,668 m			
EXTER	B646	25.77460	35,000 ft	26	-	
FIX	AWY-HI	-76.27120	10,668 m			
MAMML	B646	25.53670	35,000 ft	24	-	
FIX	AWY-HI	-76.64770	10,668 m			
OHBEE	B646	25.43960	35,000 ft	10	-	
FIX	AWY-HI	-76.80040	10,668 m			
ZQA	B646	25.02550	35,000 ft	43	NASSAU	
VOR	AWY-HI	-77.44640	10,668 m			
SANNS	R628	24.80070	35,000 ft	30	-	
FIX	AWY-HI	-77.95480	10,668 m			
PEKRE	R628	24.73780	35,000 ft	8	-	
FIX	AWY-HI	-78.09610	10,668 m			
MENDL	R628	24.45260	35,000 ft	36	-	
FIX	AWY-HI	-78.67840	10,668 m			
ZOLLA	R628	24.24300	35,000 ft	26	-	
FIX	AWY-HI	-79.10150	10,668 m			
TANIA	R628	24.03010	35,000 ft	26	-	
FIX	AWY-HI	-79.52760	10,668 m			
UVA	UR628	23.02470	11,300 ft	122	VARDER	
VOR	AWY-HI	-81.45360	3,444 m			
MUHA	-	22.98910	0 ft	52	Jose Marti Intl	
APT	-	-82.40910	0 m			

LEMD

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 4

Elevation: 1,998 ft / 609 m
Location: 40.495300 -3.560200
Magnetic Var: 0.077 E

METAR

LEMD 072230Z 04008KT 340V100 CAVOK 14/04 Q1023 NOSIG

TAF

TAF LEMD 071700Z 0718/0824 02010KT CAVOK TX27/0815Z TN05/0805Z TEMPO 0718/0721 02015G25KT

Frequencies

REC - 130.85 MHz - ATIS DEPARTURE	REC - 118.25 MHz - ATIS ARRIVAL
TWR - 120.65 MHz - BARAJAS TOWER	TWR - 120.15 MHz - BARAJAS TOWER
TWR - 119.50 MHz - BARAJAS TOWER	TWR - 118.15 MHz - BARAJAS TOWER
GND - 121.75 MHz - BARAJAS GROUND	GND - 123.15 MHz - BARAJAS GROUND
GND - 121.70 MHz - BARAJAS APRON	GND - 123.25 MHz - BARAJAS APRON
GND - 121.85 MHz - BARAJAS APRON	GND - 123.00 MHz - BARAJAS APRON
CLD - 130.35 MHz - CLEARANCE DELIVERY	CLD - 130.00 MHz - CLEARANCE DELIVERY
APP - 127.50 MHz - MADRID APPROACH	APP - 136.10 MHz - MADRID APPROACH
APP - 134.00 MHz - MADRID APPROACH	APP - 130.80 MHz - MADRID APPROACH
APP - 127.10 MHz - MADRID APPROACH	APP - 124.00 MHz - MADRID APPROACH
APP - 118.75 MHz - MADRID APPROACH	APP - 118.40 MHz - MADRID APPROACH
DEP - 131.17 MHz - MADRID DEPARTURE	DEP - 124.22 MHz - MADRID DEPARTURE
APP - 134.95 MHz - MADRID DIRECT	APP - 128.70 MHz - MADRID DIRECT

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
14R	197 ft	13,097 ft	142.31	ASPHALT	0 ft	0 ft
	60 m	3,992 m	142.23		0 m	0 m
32L	197 ft	13,097 ft	322.32	ASPHALT	3,041 ft	0 ft
	60 m	3,992 m	322.25		927 m	0 m
18R	197 ft	13,723 ft	179.75	ASPHALT	2,644 ft	0 ft
	60 m	4,183 m	179.67		806 m	0 m
36L	197 ft	13,723 ft	359.75	ASPHALT	0 ft	0 ft
	60 m	4,183 m	359.67		0 m	0 m
14L	197 ft	11,494 ft	142.31	ASPHALT	0 ft	0 ft
	60 m	3,504 m	142.24		0 m	0 m
32R	197 ft	11,494 ft	322.33	ASPHALT	1,627 ft	0 ft
	60 m	3,504 m	322.25		496 m	0 m
18L	197 ft	11,494 ft	179.76	ASPHALT	1,621 ft	0 ft
	60 m	3,503 m	179.68		494 m	0 m
36R	197 ft	11,494 ft	359.76	ASPHALT	0 ft	0 ft
	60 m	3,503 m	359.68		0 m	0 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
18L	DME	IML	111.50 MHz	18 nm	-	-	1,916 ft
				33 km	-		1,916 m
18R	DME	IMR	110.70 MHz	18 nm	-	-	1,986 ft
				33 km	-		1,986 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
32L	DME	MAA	109.90 MHz	18 nm	-	-	1,998 ft
				33 km	-		1,998 m
32R	DME	MBB	109.10 MHz	18 nm	-	-	1,998 ft
				33 km	-		1,998 m
18L	LOC-ILS	IML	111.50 MHz	18 nm	179.76	-	1,998 ft
				33 km	179.68		1,998 m
18R	LOC-ILS	IMR	110.70 MHz	18 nm	179.75	-	1,998 ft
				33 km	179.67		1,998 m
32L	LOC-ILS	MAA	109.90 MHz	18 nm	322.32	-	1,998 ft
				33 km	322.24		1,998 m
32R	LOC-ILS	MBB	109.10 MHz	18 nm	322.33	-	1,998 ft
				33 km	322.25		1,998 m
18L	GS	IML	111.50 MHz	10 nm	179.76	3.00	1,998 ft
				19 km	179.68		1,998 m
18R	GS	IMR	110.70 MHz	10 nm	179.75	3.00	1,978 ft
				19 km	179.67		1,978 m
32L	GS	MAA	109.90 MHz	10 nm	322.32	3.00	1,998 ft
				19 km	322.24		1,998 m
32R	GS	MBB	109.10 MHz	10 nm	322.33	3.00	1,998 ft
				19 km	322.25		1,998 m

MUHA

Region: CUBA
Timezone: AMERICA/HAVANA
Runways: 1

Elevation: 208 ft / 63 m
Location: 22.989100 -82.409100
Magnetic Var: 5.657 W

METAR

MUHA 072150Z 03011KT 9000 SCT033 31/23 Q1011

TAF

MUHA 071700Z 0718/0818 VRB07KT 9000 SCT030 BECMG 0719/0722 05010KT BECMG 0802/0804 08005KT BECMG 0814/0816 13008KT

Frequencies

REC - 132.50 MHz - ATIS
TWR - 118.10 MHz - MARTI TOWER

GND - 121.90 MHz - MARTI GROUND
APP - 120.30 MHz - HABANA APPROACH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
06	151 ft	13,135 ft	54.19	ASPHALT	0 ft	469 ft
	46 m	4,004 m	59.85		0 m	143 m
24	151 ft	13,135 ft	234.21	ASPHALT	0 ft	197 ft
	46 m	4,004 m	239.86		0 m	60 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
06	LOC-ILS	IHA	110.50 MHz	18 nm	54.21	-	209 ft
				33 km	59.87		209 m
06	GS	IHA	110.50 MHz	10 nm	54.21	3.00	209 ft
				19 km	59.87		209 m