

LSZH

Zurich

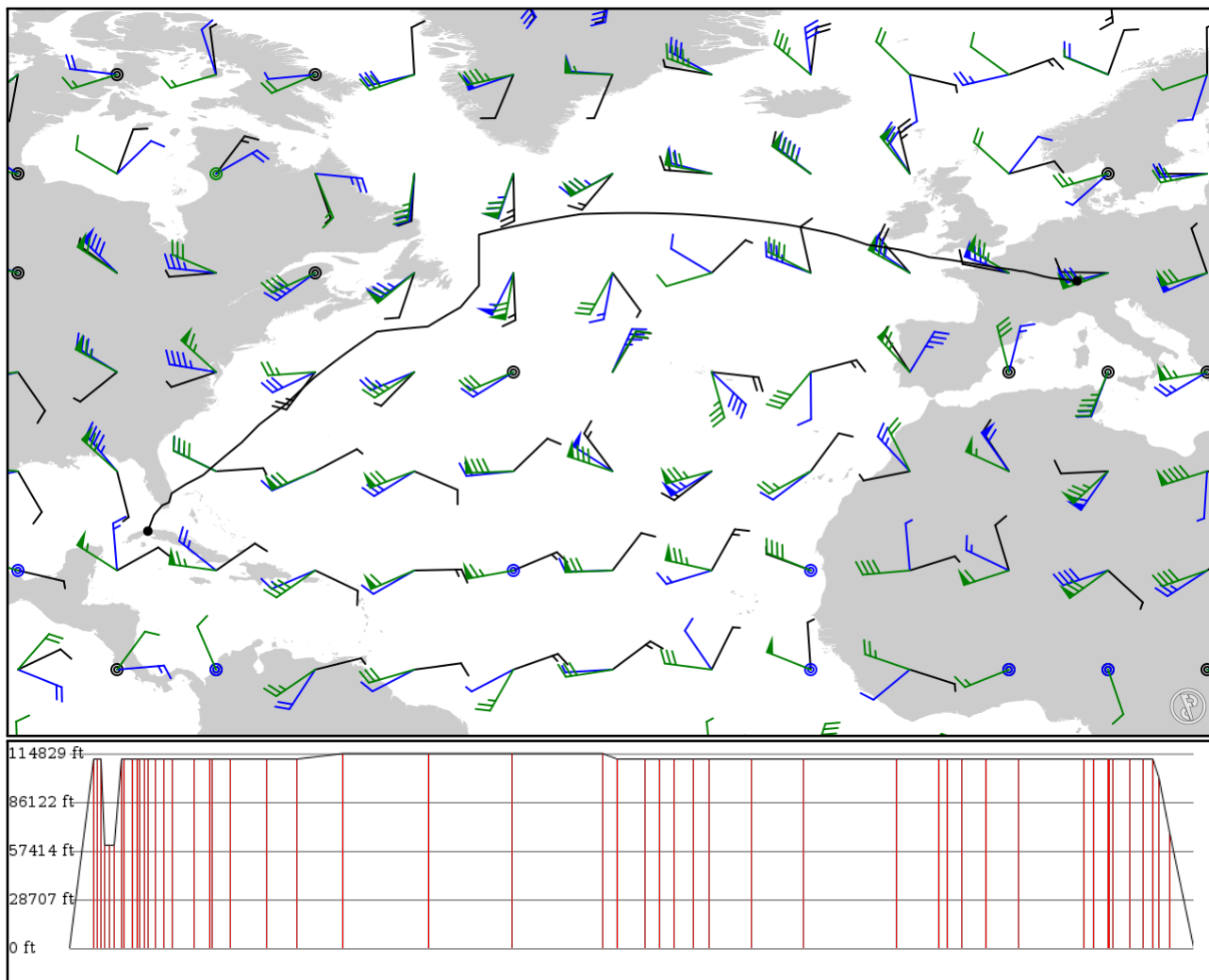
MUHA

Havana Jose Marti Intl

2024/05/15 1951Z

LSZH IXILU **UL613** RLP **G4** TRO **UM164** BRY **UM729** RESMI **UL851** LGL **UN502** JSY **UN160** LIZAD **UL739** MABUG
UN12 LULOX **UP128** GIPER **UN512** LIMRI **G** +52.000_--50.000 +51.000_--50.000 +49.000_--50.000
+48.000_--50.000 +47.000_--50.000 URTAK RAFIN 4300N05500W FOCUS **A699** BURTT **N28C** NUCAR **A699** PBI
J79 EYW MUHA

4744.69 nm / 8787.17 km



Notes

Using NAT tracks from 2/10/2016

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
LSZH	-	47.46349	0 ft	-	Zurich
APT	-	8.54996	0 m		
IXILU	-	47.74028	34,000 ft	102	-
FIX	-	6.04139	10,363 m		
RESPO	UL613	47.83281	34,000 ft	18	-
FIX	AWY-HI	5.60800	10,363 m		
RLP	UL613	47.90631	34,000 ft	15	ROLAMPONT VOR-DME
VOR	AWY-HI	5.24917	10,363 m		
RLP12	G4	47.98528	18,500 ft	12	-
FIX	AWY-LO	4.96222	5,639 m		
ERTIP	G4	48.13444	18,500 ft	24	-
FIX	AWY-LO	4.40667	5,639 m		
TRO	G4	48.25122	18,500 ft	19	TROYES BARBEREY VOR
VOR	AWY-LO	3.96314	5,639 m		
BRY	UM164	48.40700	34,000 ft	28	BRAY SUR SEINE VOR-DME
VOR	AWY-HI	3.29478	10,363 m		
AMODO	UM729	48.41944	34,000 ft	12	-
FIX	AWY-HI	2.98028	10,363 m		
RESMI	UM729	48.56861	34,000 ft	32	-
FIX	AWY-HI	2.19194	10,363 m		
TABOV	UL851	48.64417	34,000 ft	22	-
FIX	AWY-HI	1.64889	10,363 m		
PIGOP	UL851	48.68583	34,000 ft	12	-
FIX	AWY-HI	1.33889	10,363 m		
DITAL	UL851	48.74472	34,000 ft	18	-
FIX	AWY-HI	0.88917	10,363 m		
LGL	UL851	48.79061	34,000 ft	14	L AIGLE VOR
VOR	AWY-HI	0.53028	10,363 m		
ARGED	UN502	48.92972	34,000 ft	31	-
FIX	AWY-HI	-0.25000	10,363 m		
SENLO	UN502	49.08333	34,000 ft	37	-
FIX	AWY-HI	-1.17833	10,363 m		
JSY	UN502	49.22111	34,000 ft	35	JERSEY VOR-DME
VOR	AWY-HI	-2.04611	10,363 m		
LIZAD	UN160	49.59028	34,000 ft	91	-
FIX	AWY-HI	-4.33028	10,363 m		
MABUG	UL739	49.78472	34,000 ft	63	-
FIX	AWY-HI	-5.93667	10,363 m		
IDOKI	UN12	49.86028	34,000 ft	10	-
FIX	AWY-HI	-6.19417	10,363 m		
LULOX	UN12	50.36667	34,000 ft	75	-
FIX	AWY-HI	-8.00000	10,363 m		
GIPER	UP128	51.00000	34,000 ft	156	-
FIX	AWY-HI	-12.00000	10,363 m		
LIMRI	UN512	52.00000	34,000 ft	127	-
FIX	AWY-HI	-15.00000	10,363 m		
+53.000_--20.000	G	53.00000	35,000 ft	192	-
LATLON	NAT	-20.00000	10,668 m		
+54.000_--30.000	G	54.00000	35,000 ft	361	-
LATLON	NAT	-30.00000	10,668 m		
+54.000_--40.000	G	54.00000	35,000 ft	352	-
LATLON	NAT	-40.00000	10,668 m		
+52.000_--50.000	G	52.00000	35,000 ft	380	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	NAT	-50.00000	10,668 m		
+51.000_--50.000	-	51.00000	34,000 ft	60	-
LATLON	-	-50.00000	10,363 m		
+49.000_--50.000	-	49.00000	34,000 ft	120	-
LATLON	-	-50.00000	10,363 m		
+48.000_--50.000	-	48.00000	34,000 ft	60	-
LATLON	-	-50.00000	10,363 m		
+47.000_--50.000	-	47.00000	34,000 ft	60	-
LATLON	-	-50.00000	10,363 m		
URTAK	-	45.83806	34,000 ft	81	-
FIX	-	-51.00000	10,363 m		
RAFIN	-	44.88333	34,000 ft	66	-
FIX	-	-51.80472	10,363 m		
4300N05500W	-	43.00000	34,000 ft	178	-
LATLON	-	-55.00000	10,363 m		
FOCUS	-	42.50000	34,000 ft	222	-
FIX	-	-60.00000	10,363 m		
AKERS	A699	37.97820	34,000 ft	391	-
FIX	AWY-HI	-66.15546	10,363 m		
CLXTN	A699	35.72294	34,000 ft	177	-
FIX	AWY-HI	-68.55608	10,363 m		
DANER	A699	35.26667	34,000 ft	37	-
FIX	AWY-HI	-69.06667	10,363 m		
HUBER	A699	34.58261	34,000 ft	61	-
FIX	AWY-HI	-69.98375	10,363 m		
ODEAL	A699	33.43088	34,000 ft	101	-
FIX	AWY-HI	-71.48221	10,363 m		
BURTT	A699	31.66890	34,000 ft	137	-
FIX	AWY-HI	-73.21600	10,363 m		
LOUIZ	N28C	28.47283	34,000 ft	274	-
FIX	AWY-HI	-77.00000	10,363 m		
NUCAR	N28C	28.12603	34,000 ft	39	-
FIX	AWY-HI	-77.63300	10,363 m		
STIFF	A699	27.60518	34,000 ft	62	-
FIX	AWY-HI	-78.64612	10,363 m		
RAMJT	A699	27.52044	34,000 ft	8	-
FIX	AWY-HI	-78.78000	10,363 m		
PERMT	A699	27.41420	34,000 ft	10	-
FIX	AWY-HI	-78.94727	10,363 m		
PBI	A699	26.68006	34,000 ft	75	PALM BEACH VORTAC
VOR	AWY-HI	-80.08650	10,363 m		
DHP	J79	25.79997	34,000 ft	54	DOLPHIN VORTAC
VOR	AWY-HI	-80.34903	10,363 m		
DVALL	J79	25.51469	34,000 ft	39	-
FIX	AWY-HI	-80.99896	10,363 m		
CARNU	J79	25.13837	30,700 ft	28	-
FIX	AWY-HI	-81.32559	9,357 m		
EYW	J79	24.58588	20,700 ft	42	KEY WEST VORTAC
DME	AWY-HI	-81.80048	6,309 m		
MUHA	-	22.98915	0 ft	101	Havana Jose Marti Intl
APT	-	-82.40909	0 m		

LSZH

Region: SWITZERLAND
Timezone: EUROPE/ZURICH
Runways: 3

Elevation: 1,416 ft / 432 m
Location: 47.463500 8.549950
Magnetic Var: 3.127 E

METAR

LSZH 151920Z 24015KT 220V280 9999 -SHRA FEW026 SCT050CB BKN070 14/10 Q1006 TEMPO SHRA

TAF

TAF LSZH 151725Z 1518/1624 36004KT 9999 SCT035 TX18/1615Z TN11/1604Z PROB30 TEMPO 1519/1521 27012KT TSRA FEW025CB

Frequencies

REC - 125.72 MHz - ATIS	GND - 121.90 MHz - ZURICH GROUND
GND - 118.15 MHz - ZURICH GROUND	GND - 119.75 MHz - ZURICH GROUND
GND - 121.75 MHz - ZURICH APRON	GND - 121.70 MHz - ZURICH APRON
GND - 121.85 MHz - ZURICH APRON	GND - 121.97 MHz - ZURICH APRON
TWR - 118.10 MHz - ZURICH TOWER	TWR - 120.22 MHz - ZURICH TOWER
TWR - 119.70 MHz - ZURICH TOWER	APP - 118.00 MHz - ZURICH ARRIVAL
APP - 135.22 MHz - ZURICH APPROACH	APP - 125.32 MHz - ZURICH FINAL
APP - 120.75 MHz - ZURICH FINAL	DEP - 125.95 MHz - ZURICH DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16	197 ft	12,181 ft	155.03	CONCRETE	0 ft	62 ft
	60 m	3,713 m	151.91		0 m	19 m
34	197 ft	12,181 ft	335.05	CONCRETE	1,542 ft	49 ft
	60 m	3,713 m	331.92		470 m	15 m
14	197 ft	10,816 ft	137.29	CONCRETE	492 ft	75 ft
	60 m	3,297 m	134.17		150 m	23 m
32	197 ft	10,816 ft	317.31	CONCRETE	0 ft	82 ft
	60 m	3,297 m	314.19		0 m	25 m
10	197 ft	8,196 ft	95.99	CONCRETE	0 ft	62 ft
	60 m	2,498 m	92.87		0 m	19 m
28	197 ft	8,196 ft	276.02	CONCRETE	0 ft	276 ft
	60 m	2,498 m	272.89		0 m	84 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
14	DME	IKL	108.30 MHz	18 nm	-	-	1,460 ft
				33 km	-		1,460 m
16	DME	IZH	110.50 MHz	18 nm	-	-	1,400 ft
				33 km	-		1,400 m
28	DME	IZW	109.75 MHz	18 nm	-	-	1,416 ft
				33 km	-		1,416 m
34	DME	IZS	110.75 MHz	18 nm	-	-	1,410 ft
				33 km	-		1,410 m
14	LOC-ILS	IKL	111.75 MHz	18 nm	137.31	-	1,417 ft
				33 km	134.18		1,417 m
16	LOC-ILS	IZH	110.50 MHz	18 nm	155.05	-	1,417 ft
				33 km	151.92		1,417 m
28	LOC-ILS	IZW	109.75 MHz	18 nm	276.01	-	1,417 ft
				33 km	272.88		1,417 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
34	LOC-ILS	IZS	110.75 MHz	18 nm	335.06	-	1,417 ft
				33 km	331.93		1,417 m
14	GS	IKL	111.75 MHz	10 nm	137.31	3.00	1,417 ft
				19 km	134.18		1,417 m
16	GS	IZH	110.50 MHz	10 nm	155.05	3.00	1,417 ft
				19 km	151.92		1,417 m
28	GS	IZW	109.75 MHz	10 nm	276.01	3.30	1,417 ft
				19 km	272.88		1,417 m
34	GS	IZS	110.75 MHz	10 nm	335.06	3.30	1,417 ft
				19 km	331.93		1,417 m

MUHA

Region: CUBA
Timezone: AMERICA/HAVANA
Runways: 1

Elevation: 208 ft / 63 m
Location: 22.989100 -82.409100
Magnetic Var: 5.659 W

METAR

MUHA 151850Z 19011KT 130V220 9999 FEW030 33/21 Q1013

TAF

MUHA 151700Z 1518/1618 19013KT 9000 SCT030 BECMG 1602/1604 18007KT BECMG 1615/1617 19015KT

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	239.87		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