

# LEMD

Adolfo Suárez Madrid-Barajas

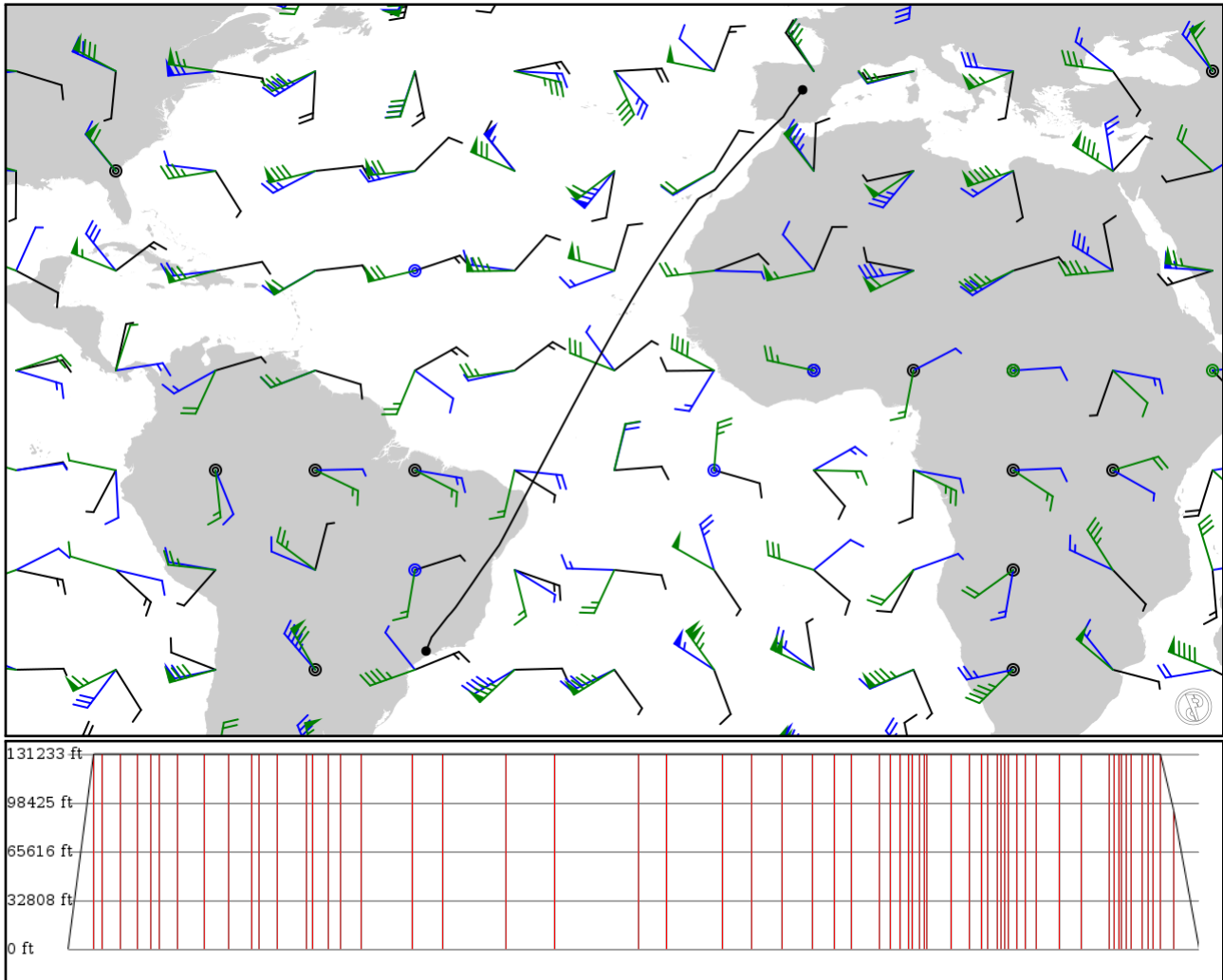
# SBGR

Guarulhos-Andre Franco Montoro Intl

2024/04/28 0351Z

LEMD MOLIN UN857 HIJ UN10 SVL UN857 LZR UN871 GDV UN873 NTL UZ14 TOMAS UZ21 MAVBO W1 ASBUP SBGR

4544.56 nm / 8416.53 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 40000ft
- Cruise Speed: 320kts
- 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	-	40.49530	0 ft	-	Adolfo Suárez Madrid-Barajas
APT	-	-3.56020	0 m		
MOLIN	-	39.00000	40,000 ft	103	-
FIX	-	-4.68575	12,192 m		
HIJ	UN857	38.50810	40,000 ft	35	HINOJOSA DEL DUQUE
VOR	AWY-HI	-5.09969	12,192 m		
SVL	UN10	37.42760	40,000 ft	72	SEVILLE
VOR	AWY-HI	-5.76222	12,192 m		
CLANA	UN857	36.50890	40,000 ft	72	-
FIX	AWY-HI	-6.72697	12,192 m		
KORNO	UN857	35.83330	40,000 ft	52	-
FIX	AWY-HI	-7.41667	12,192 m		
ABODA	UN857	35.41390	40,000 ft	32	-
FIX	AWY-HI	-7.83333	12,192 m		
IBALU	UN857	34.44440	40,000 ft	74	-
FIX	AWY-HI	-8.78917	12,192 m		
ERMED	UN857	33.01530	40,000 ft	109	-
FIX	AWY-HI	-10.13640	12,192 m		
TOVRA	UN857	31.75390	40,000 ft	95	-
FIX	AWY-HI	-11.27750	12,192 m		
VEDOD	UN857	30.50580	40,000 ft	93	-
FIX	AWY-HI	-12.37330	12,192 m		
TERTO	UN857	30.10420	40,000 ft	29	-
FIX	AWY-HI	-12.71720	12,192 m		
LZR	UN857	29.16600	40,000 ft	69	LANZAROTE
VOR	AWY-HI	-13.51070	12,192 m		
GDV	UN871	28.07710	40,000 ft	120	GRAN CANARIA
VOR	AWY-HI	-15.42900	12,192 m		
LOMAS	UN873	27.72040	40,000 ft	25	-
FIX	AWY-HI	-15.69110	12,192 m		
ODEGI	UN873	26.89460	40,000 ft	59	-
FIX	AWY-HI	-16.29010	12,192 m		
UDATI	UN873	26.19780	40,000 ft	49	-
FIX	AWY-HI	-16.78640	12,192 m		
LIMAL	UN873	25.00000	40,000 ft	85	-
FIX	AWY-HI	-17.62560	12,192 m		
ISOKA	UN873	22.08140	40,000 ft	205	-
FIX	AWY-HI	-19.59000	12,192 m		
IPERA	UN873	20.36500	40,000 ft	120	-
FIX	AWY-HI	-20.70000	12,192 m		
CVS	UN873	16.73670	40,000 ft	252	SAL
VOR	AWY-HI	-22.95080	12,192 m		
POMAT	UN873	13.87670	40,000 ft	196	-
FIX	AWY-HI	-24.59670	12,192 m		
SAGMA	UN873	8.94167	40,000 ft	337	-
FIX	AWY-HI	-27.33500	12,192 m		
ASEBA	UN873	7.31111	40,000 ft	111	-
FIX	AWY-HI	-28.21890	12,192 m		
TASIL	UN873	4.00500	40,000 ft	225	-
FIX	AWY-HI	-29.99000	12,192 m		
ORARO	UN873	2.24717	40,000 ft	119	-
FIX	AWY-HI	-30.92280	12,192 m		
SALPU	UN873	0.44317	40,000 ft	122	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	-31.87730	12,192 m		
INTOL	UN873	-1.36083	40,000 ft	122	-
FIX	AWY-HI	-32.83150	12,192 m		
VUNOK	UN873	-2.63800	40,000 ft	86	-
FIX	AWY-HI	-33.50880	12,192 m		
FEMUR	UN873	-3.63400	40,000 ft	67	-
FIX	AWY-HI	-34.03620	12,192 m		
IBAGA	UN873	-5.31783	40,000 ft	114	-
FIX	AWY-HI	-34.93280	12,192 m		
NTL	UN873	-5.90833	40,000 ft	40	NATAL
VOR	AWY-HI	-35.24870	12,192 m		
RODES	UZ14	-6.50200	40,000 ft	40	-
FIX	AWY-HI	-35.55870	12,192 m		
SEVIL	UZ14	-7.04067	40,000 ft	36	-
FIX	AWY-HI	-35.84070	12,192 m		
OPNED	UZ14	-7.22833	40,000 ft	12	-
FIX	AWY-HI	-35.93900	12,192 m		
VACAR	UZ14	-7.66533	40,000 ft	29	-
FIX	AWY-HI	-36.16870	12,192 m		
EVPA8	UZ14	-7.93167	40,000 ft	18	-
FIX	AWY-HI	-36.30850	12,192 m		
IMBOS	UZ14	-8.07517	40,000 ft	9	-
FIX	AWY-HI	-36.38420	12,192 m		
AVILA	UZ14	-9.51667	40,000 ft	97	-
FIX	AWY-HI	-37.14770	12,192 m		
BUTED	UZ14	-10.63720	40,000 ft	76	-
FIX	AWY-HI	-37.74500	12,192 m		
TOMAS	UZ14	-11.33880	40,000 ft	47	-
FIX	AWY-HI	-38.12300	12,192 m		
SAPSI	UZ21	-11.66220	40,000 ft	23	-
FIX	AWY-HI	-38.35300	12,192 m		
UGUDI	UZ21	-12.22680	40,000 ft	41	-
FIX	AWY-HI	-38.75620	12,192 m		
UTKUD	UZ21	-12.43330	40,000 ft	15	-
FIX	AWY-HI	-38.90420	12,192 m		
VUKPO	UZ21	-12.63580	40,000 ft	14	-
FIX	AWY-HI	-39.04970	12,192 m		
PORBA	UZ21	-12.78650	40,000 ft	11	-
FIX	AWY-HI	-39.15820	12,192 m		
NITBO	UZ21	-13.27950	40,000 ft	36	-
FIX	AWY-HI	-39.51400	12,192 m		
TOSOP	UZ21	-13.72180	40,000 ft	32	-
FIX	AWY-HI	-39.83470	12,192 m		
MOPSO	UZ21	-14.32030	40,000 ft	43	-
FIX	AWY-HI	-40.25330	12,192 m		
MOTBO	UZ21	-15.66850	40,000 ft	96	-
FIX	AWY-HI	-41.16700	12,192 m		
UTGIR	UZ21	-16.84550	40,000 ft	85	-
FIX	AWY-HI	-41.98750	12,192 m		
OPVUK	UZ21	-18.41700	40,000 ft	113	-
FIX	AWY-HI	-43.07380	12,192 m		
VAPAR	UZ21	-18.66150	40,000 ft	18	-
FIX	AWY-HI	-43.26880	12,192 m		
EPDIM	UZ21	-18.91970	40,000 ft	19	-
FIX	AWY-HI	-43.48320	12,192 m		
NISTI	UZ21	-19.06230	40,000 ft	10	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	-43.60200	12,192 m		
DEPOT	UZ21	-19.30420	40,000 ft	19	-
FIX	AWY-HI	-43.81930	12,192 m		
CNF	UZ21	-19.55820	40,000 ft	20	CONFINS (BELO HORIZONTE)
VOR	AWY-HI	-44.04850	12,192 m		
REDAD	UZ21	-20.13650	40,000 ft	42	-
FIX	AWY-HI	-44.49570	12,192 m		
PUDVA	UZ21	-20.48970	40,000 ft	26	-
FIX	AWY-HI	-44.77090	12,192 m		
MAVBO	UZ21	-20.74430	40,000 ft	18	-
FIX	AWY-HI	-44.97000	12,192 m		
VUKEM	W1	-21.16480	40,000 ft	31	-
FIX	AWY-LO	-45.29880	12,192 m		
ASBUP	W1	-21.84920	28,400 ft	50	-
FIX	AWY-LO	-45.83900	8,656 m		
SBGR	-	-23.43230	0 ft	101	Guarulhos-Andre Franco Montoro Intl
APT	-	-46.46950	0 m		

## LEMD

Region: SPAIN  
Timezone: EUROPE/MADRID  
Runways: 4

Elevation: 1,998 ft / 609 m  
Location: 40.495300 -3.560200  
Magnetic Var: 0.074 E

## METAR

LEMD 280330Z 35001KT CAVOK 04/03 Q1009 NOSIG

## TAF

TAF LEMD 272300Z 2800/2906 VRB05KT CAVOK TX20/2815Z TN04/2806Z BECMG 2809/2811 22007KT BECMG 2818/2820 33005KT

## 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	179.68		806 m	0 m
36L	197 ft	13,723 ft	359.75	ASPHALT	0 ft	0 ft
	60 m	4,183 m	359.68		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	322.26		496 m	0 m
18L	197 ft	11,494 ft	179.76	ASPHALT	1,621 ft	0 ft
	60 m	3,503 m	179.69		494 m	0 m
36R	197 ft	11,494 ft	359.76	ASPHALT	0 ft	0 ft
	60 m	3,503 m	359.69		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	179.69		1,998 m
18R	LOC-ILS	IMR	110.70 MHz	18 nm	179.75	-	1,998 ft
				33 km	179.68		1,998 m
32L	LOC-ILS	MAA	109.90 MHz	18 nm	322.32	-	1,998 ft
				33 km	322.25		1,998 m
32R	LOC-ILS	MBB	109.10 MHz	18 nm	322.33	-	1,998 ft
				33 km	322.26		1,998 m
18L	GS	IML	111.50 MHz	10 nm	179.76	3.00	1,998 ft
				19 km	179.69		1,998 m
18R	GS	IMR	110.70 MHz	10 nm	179.75	3.00	1,978 ft
				19 km	179.68		1,978 m
32L	GS	MAA	109.90 MHz	10 nm	322.32	3.00	1,998 ft
				19 km	322.25		1,998 m
32R	GS	MBB	109.10 MHz	10 nm	322.33	3.00	1,998 ft
				19 km	322.26		1,998 m

## SBGR

Region: BRAZIL  
Timezone: AMERICA/SAO\_PAULO  
Runways: 2

Elevation: 2,461 ft / 750 m  
Location: -23.432300 -46.469500  
Magnetic Var: 22.205 W

## METAR

SBGR 280300Z 36005KT CAVOK 24/17 Q1016

## TAF

TAF SBGR 272200Z 2800/2906 02004KT 8000 FEW016 TN20/2809Z TX31/2818Z BECMG 2802/2804 06006KT BECMG 2805/2807 SCT0

## Frequencies

REC - 127.75 MHz - GUARULHOS ATIS	CLD - 121.00 MHz - GUARULHOS CLEARANCE
GND - 121.70 MHz - GUARULHOS GROUND	GND - 126.90 MHz - GUARULHOS GROUND
TWR - 118.40 MHz - GUARULHOS TOWER	TWR - 132.75 MHz - GUARULHOS TOWER
TWR - 135.20 MHz - GUARULHOS TOWER	APP - 129.75 MHz - SAO PAULO APPROACH
APP - 119.15 MHz - SAO PAULO APPROACH	APP - 120.45 MHz - SAO PAULO APPROACH
APP - 120.85 MHz - SAO PAULO APPROACH	APP - 133.85 MHz - SAO PAULO APPROACH

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
09L	148 ft	12,131 ft	73.60	ASPHALT	295 ft	190 ft
	45 m	3,698 m	95.80		90 m	58 m
27R	148 ft	12,131 ft	253.59	ASPHALT	200 ft	194 ft
	45 m	3,698 m	275.79		61 m	59 m
09R	148 ft	9,832 ft	73.60	ASPHALT	0 ft	194 ft
	45 m	2,997 m	95.81		0 m	59 m
27L	148 ft	9,832 ft	253.59	ASPHALT	0 ft	194 ft
	45 m	2,997 m	275.80		0 m	59 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
09L	LOC-ILS	IUC	110.70 MHz	18 nm	73.59	-	2,461 ft
				33 km	95.80		2,461 m
09R	LOC-ILS	IGR	111.50 MHz	18 nm	73.60	-	2,461 ft
				33 km	95.81		2,461 m
27L	LOC-ILS	IBC	111.10 MHz	18 nm	253.60	-	2,459 ft
				33 km	275.81		2,459 m
27R	LOC-ILS	IGS	111.90 MHz	18 nm	253.59	-	2,459 ft
				33 km	275.80		2,459 m
09L	GS	IUC	110.70 MHz	10 nm	73.59	3.00	2,461 ft
				19 km	95.80		2,461 m
09R	GS	IGR	111.50 MHz	10 nm	73.60	2.92	2,461 ft
				19 km	95.81		2,461 m
27L	GS	IBC	111.10 MHz	10 nm	253.60	3.00	2,459 ft
				19 km	275.81		2,459 m
27R	GS	IGS	111.90 MHz	10 nm	253.59	3.00	2,458 ft
				19 km	275.80		2,458 m