

# MMTO

Toluca Lic. Adolfo Lopez Mateos

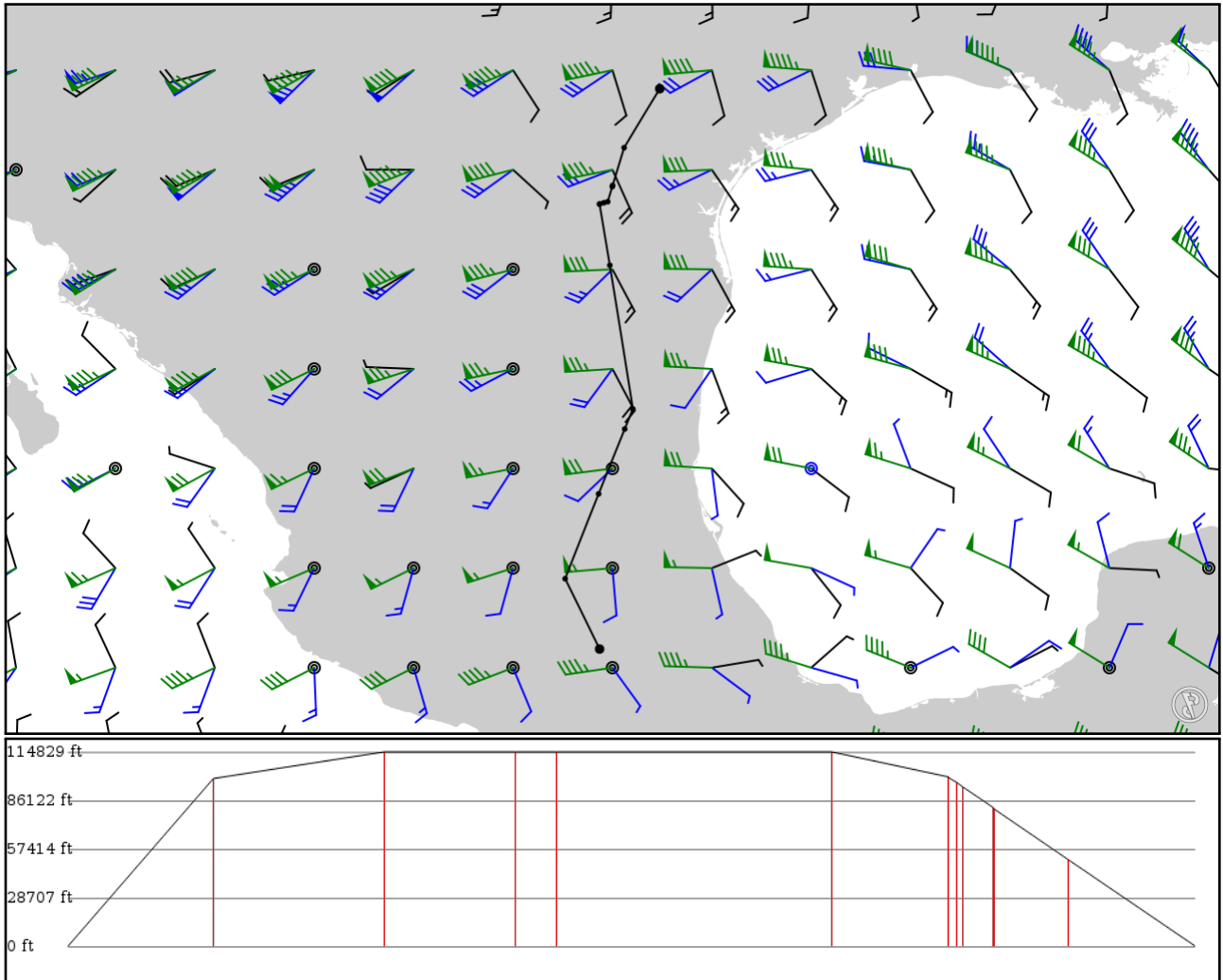
# KSAT

San Antonio Intl

2024/05/16 0653Z

MMTO QET **UJ17** CVM **UJ41** NLD NLD **J22** LRD **V17** COT KSAT

651.32 nm / 1206.24 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
MMTO APT	-	19.33680 -99.56590	0 ft 0 m	-	Toluca Lic. Adolfo Lopez Mateos
QET VOR	-	20.61750 -100.19400	30,200 ft 9,205 m	84	QUERETARO
MORAS FIX	UJ17 AWY-HI	22.16110 -99.58360	35,000 ft 10,668 m	98	-
OTITI FIX	UJ17 AWY-HI	23.34080 -99.10810	35,000 ft 10,668 m	75	-
CVM VOR	UJ17 AWY-HI	23.70550 -98.95900	35,000 ft 10,668 m	23	VICTORIA (CIUDAD VICTORIA)
TALBI FIX	UJ41 AWY-HI	26.32140 -99.37920	35,000 ft 10,668 m	158	-
NLD DME	UJ41 AWY-HI	27.43330 -99.56670	30,500 ft 9,296 m	67	NEWLA VOR-DME
NLD VOR	-	27.43940 -99.56460	30,400 ft 9,266 m	0	NEWLA (NUEVO LAREDO)
WEGUS FIX	J22 AWY-HI	27.46000 -99.48780	29,500 ft 8,992 m	4	-
LRD VOR	J22 AWY-HI	27.47870 -99.41770	28,700 ft 8,748 m	3	LAREDO
IRICI FIX	V17 AWY-LO	27.75310 -99.33480	25,000 ft 7,620 m	17	-
KAHAN FIX	V17 AWY-LO	27.77420 -99.32840	24,700 ft 7,529 m	1	-
COT VOR	V17 AWY-LO	28.46200 -99.11850	15,600 ft 4,755 m	42	COTULLA
KSAT APT	-	29.53410 -98.46930	0 ft 0 m	72	San Antonio Intl

## MMTO

Region: MEXICO  
Timezone: AMERICA/MEXICO\_CITY  
Runways: 1

Elevation: 8,464 ft / 2,580 m  
Location: 19.336800 -99.565900  
Magnetic Var: 4.115 E

## METAR

MMTO 160546Z 17008KT 7SM FEW080 18/09 A3041 RMK SLP050 52017 917 8/030 HZY

## TAF

TAF MMTO 160515Z 1606/1706 36005KT 6SM HZ SCT080 TX27/1621Z TN11/1613Z FM161500 20005KT 5SM HZ SKC FM161800 15010KT

## Frequencies

REC - 127.80 MHz - TOLUCA ATIS  
TWR - 118.00 MHz - TOLUCA TOWER

GND - 134.00 MHz - TOLUCA GROUND/CLEARENCE  
APP - 128.90 MHz - TOLUCA APPROACH

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
15	148 ft	13,793 ft	156.93	ASPHALT	0 ft	194 ft
	45 m	4,204 m	152.81		0 m	59 m
33	148 ft	13,793 ft	336.93	ASPHALT	741 ft	0 ft
	45 m	4,204 m	332.82		226 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
15	DME	ITLC	109.50 MHz	18 nm	-	-	8,466 ft
				33 km	-		8,466 m
15	LOC-ILS	ITLC	109.50 MHz	18 nm	156.93	-	8,464 ft
				33 km	152.82		8,464 m
15	GS	ITLC	109.50 MHz	10 nm	156.93	3.00	8,464 ft
				19 km	152.82		8,464 m

## KSAT

Region: UNITED STATES  
Timezone: AMERICA/CHICAGO  
Runways: 3

Elevation: 809 ft / 247 m  
Location: 29.534100 -98.469300  
Magnetic Var: 3.528 E

## METAR

KSAT 160551Z 13014KT 10SM SCT026 BKN250 23/21 A2980 RMK A02 SLP073 T02330206 10311 20233 403330189 50012 \$

## TAF

TAF KSAT 160520Z 1606/1712 14011KT P6SM BKN100 FM160800 13007KT P6SM OVC015 FM161200 14006KT P6SM BKN008 OVC012 FM170000 15004KT P6SM BKN008 OVC012

## Frequencies

REC - 118.90 MHz - SAN ANTONIO ATIS	COM - 122.95 MHz - SAN ANTONIO UNICOM
GND - 121.90 MHz - SAN ANTONIO GROUND	TWR - 119.80 MHz - SAN ANTONIO TOWER
APP - 124.45 MHz - SAN ANTONIO APPROACH	APP - 128.05 MHz - SAN ANTONIO APPROACH
APP - 118.05 MHz - SAN ANTONIO APPROACH	APP - 125.10 MHz - SAN ANTONIO APPROACH
DEP - 124.45 MHz - SAN ANTONIO DEPARTURE	DEP - 128.05 MHz - SAN ANTONIO DEPARTURE
DEP - 118.05 MHz - SAN ANTONIO DEPARTURE	DEP - 125.10 MHz - SAN ANTONIO DEPARTURE

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
04	150 ft	8,516 ft	40.63	CONCRETE	0 ft	200 ft
	46 m	2,596 m	37.10		0 m	61 m
22	150 ft	8,516 ft	220.63	CONCRETE	0 ft	400 ft
	46 m	2,596 m	217.11		0 m	122 m
13R	150 ft	8,507 ft	131.75	CONCRETE	0 ft	210 ft
	46 m	2,593 m	128.22		0 m	64 m
31L	150 ft	8,507 ft	311.76	CONCRETE	0 ft	197 ft
	46 m	2,593 m	308.23		0 m	60 m
13L	100 ft	5,519 ft	131.78	ASPHALT	0 ft	154 ft
	30 m	1,682 m	128.25		0 m	47 m
31R	100 ft	5,519 ft	311.79	ASPHALT	0 ft	0 ft
	30 m	1,682 m	308.26		0 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
13R	DME	IANT	110.90 MHz	18 nm	-	-	791 ft
				33 km	-		791 m
31L	DME	IIZR	110.90 MHz	18 nm	-	-	809 ft
				33 km	-		809 m
04	LOC-ILS	ISAT	109.70 MHz	18 nm	40.63	-	809 ft
				33 km	37.10		809 m
13R	LOC-ILS	IANT	110.90 MHz	18 nm	131.76	-	809 ft
				33 km	128.23		809 m
31L	LOC-ILS	IIZR	110.90 MHz	18 nm	311.76	-	809 ft
				33 km	308.23		809 m
04	GS	ISAT	109.70 MHz	10 nm	40.63	3.00	809 ft
				19 km	37.10		809 m
13R	GS	IANT	110.90 MHz	10 nm	131.76	3.00	809 ft
				19 km	128.23		809 m
31L	GS	IIZR	110.90 MHz	10 nm	311.76	3.00	809 ft
				19 km	308.23		809 m