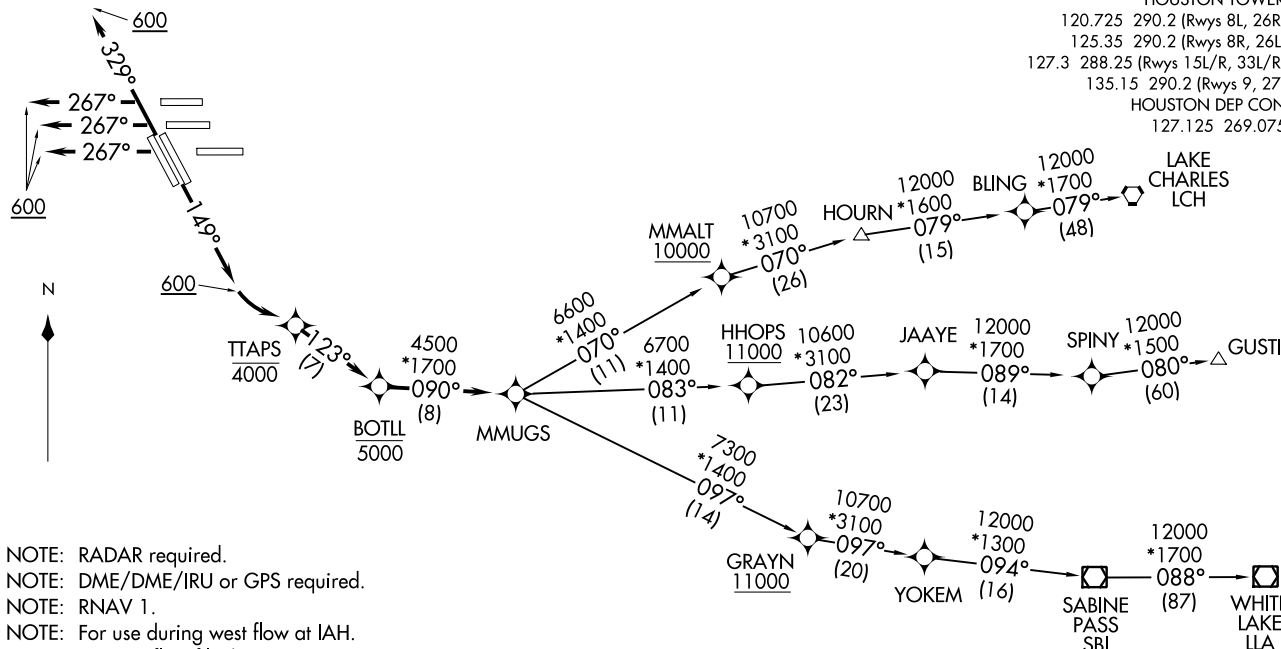


MMUGS FOUR DEPARTURE (RNAV)
(MMUGS4.MMUGS) 10DEC15
HOUSTON, TEXAS
GEORGE BUSH INT/CNTL/HOUSTON (IAH)

**TOP ALTITUDE:
16000**

TAKEOFF MINIMUMS

Rwys 15L/R, 26L/R, 27, 33L/R: Standard
with minimum climb of 500' per NM to 800.



- NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For use during west flow at IAH.
For east flow file the GUMBY RNAV DEPARTURE.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(MMUGS4.MMUGS) 21112
MMUGS FOUR DEPARTURE (RNAV)
AL-5461 (FAA)
HOUSTON, TEXAS
GEORGE BUSH INT/CNTL/HOUSTON (IAH)

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9, 27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L, 26R)
125.35 290.2 (Rwys 8R, 26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9, 27)
HOUSTON DEP CON
127.125 269.075

SC-5, 21 MAR 2024 to 18 APR 2024	DEPARTURE ROUTE DESCRIPTION	
	TAKEOFF RUNWAYS 15L/R: Climb heading 149° to 600, then left turn direct to cross TTAPS at or below 4000, then on track 123° to cross BOTLL at or below 5000, thence TAKEOFF RUNWAYS 26L/R, 27: Climb heading 267° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence TAKEOFF RUNWAYS 33L/R: Climb heading 329° to 600, expect RADAR vectors to cross BOTLL at or below 5000, thence on track 090° to MMUGS, then on (transition). Maintain 16000. Expect filed altitude 10 minutes after departure. GUSTI TRANSITION (MMUGS4.GUSTI) LAKE CHARLES TRANSITION (MMUGS4.LCH) WHITE LAKE TRANSITION (MMUGS4.LLA)	

SC-5, 21 MAR 2024 to 18 APR 2024