

South Texas Weather Modification Association – Pleasanton, Texas
Seeding Report – June 21, 2025

Synoptic/Mesoscale Conditions:

A few isolated showers are pushing inland from the middle Texas coast into the coastal plains early this morning. While radar trends indicate a gradual weakening. Later today, drier air is expected to move into the upper Texas coast, though slightly deeper moisture will advance westward. With this setup, scattered afternoon and early evening showers or storms are possible along and just south of a line from Cuero to San Antonio to near Del Rio.

Southeasterly winds continue to sustain warm and humid conditions across the region. The greatest moisture, indicated by higher precipitable water values, is concentrated over the western half of the area, while slightly drier air to the east. This moisture distribution aligns with where isolated to widely scattered showers and thunderstorms have developed, with additional activity expected to continue through the evening. Storms should remain below severe limits.

Lifting Mechanism: Diurnal Heating

Thermodynamic Indices -12Z KDRT Sounding

Freezing Level (m)	4964	-15°C Height (m)	7400
Precipitable Water (inches)	1.65	CAPE (J/Kg)	120
LCL (m)	786	CINH (J/Kg)	309
CCL (m)	2039	LI(°C)	-0.82
DRT ICA	-6.28	PB	1
Cloud Base (meters)	1335	CRP ICA	-
Warm Cloud Depth (meters)	3629	Cloud Base Temp (°C)	26.7

Discussion:

49P in the air and headed south from SJT to Hondo. Upon arrival at cell 359, the pilot was able to burn both glaciogenic and hygroscopic flares into the cell (lightning visible on radar). Cell then drifted into western half of Medina County. Pilot then headed south to Atascosa County, south of Pleasanton. Upon arrival the pilot seeded cell 501 with both glaciogenic and hygroscopic flares. Cell continued into Bexar County and maybe into Kendall County as well. The pilot now headed back west to refuel. Pilot in air again for a second round of operations/ First, pilot headed south to cell 740 and dual seeded again. Further east, another cell developed and the pilot was able to seed with glaciogenic. The final cell was very large, over Atascosa County and the pilot was able to seed with glaciogenic flares. Pilot then RTB.

Watches/Warnings: None

Seeded Cell ID's:

359	501	740	787	834						
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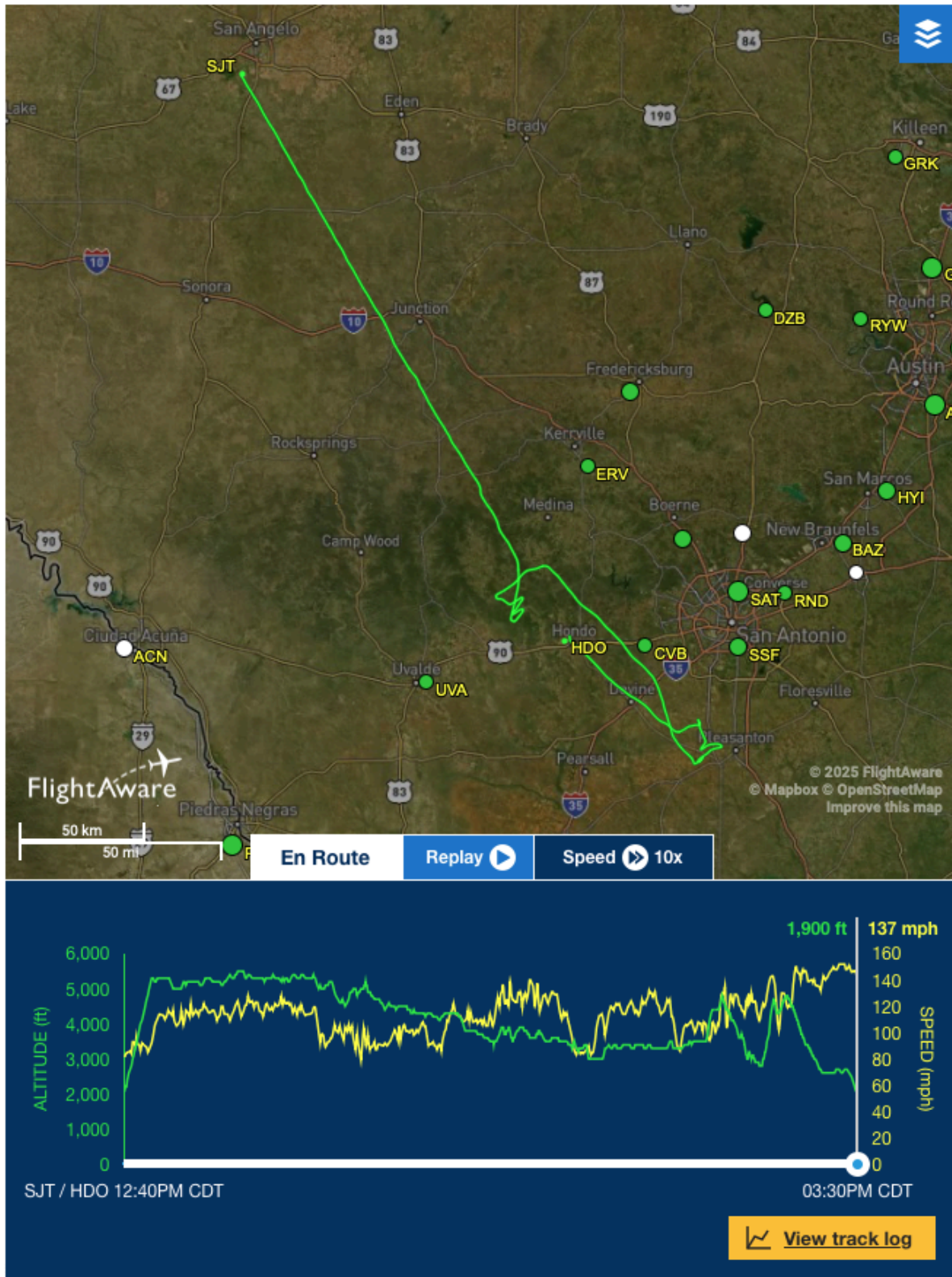
Flight Information:

TIME (Z)	Plane	Flare Location	County
1740	49P	In Air	

1907	49P	303X62	Medina
1908	49P	303X62	Medina
1910	49P	303X62	Medina
1911	49P	303X62	Medina
1911	49P	303X62	Medina
1913	49P	303X62	Medina
1958	49P	248X11	Atascosa
1959	49P	248X11	Atascosa
2003	49P	248X11	Atascosa
2010	49P	248X11	Atascosa
2013	49P	248X11	Atascosa
2016	49P	RTB	
2203	49P	In Air	
2213	49P	280X45	Medina
2214	49P	280X45	Medina
2214	49P	280X45	Medina
2216	49P	280X45	Medina
2217	49P	280X45	Medina
2229	49P	303X37	Medina
2230	49P	303X37	Medina
2231	49P	303X37	Medina
2245	49P	307X20	Atascosa
2246	49P	307X20	Atascosa
2249	49P	307X20	Atascosa
2250	49P	307X20	Atascosa
2250	49P	307X20	Atascosa
2255	49P	RTB	

Seeding operations were conducted over Medina (25G+3H) and Atascosa (19G+1H) Counties. 44 glaciogenic flares and 4 hygroscopic flares were burned within 5 clouds. This is the 2nd day for seeding in June and the day for seeding during the season.

** Note- 1 glaciogenic flare = 5.5 grams AgI and 1 hygroscopic flare = 500 grams NaCl **



Flight 1:49P



Flight 2: 49P