

South Texas Weather Modification Association – Pleasanton, Texas
Seeding Report – May 10, 2025

Synoptic/Mesoscale Conditions:

A stationary upper-level low over Louisiana is helping to trigger scattered showers and thunderstorms across the region. Activity is expected to be widespread across the target area initially forming north and then moving south. Showers and storms will gradually diminish around sunset with the loss of diurnal heating.

Lifting Mechanism: Upper level low/Diurnal Heating

Thermodynamic Indices -12Z KDRT Sounding

Freezing Level (m)	3099	-15°C Height (m)	6100
Precipitable Water (inches)	0.94	CAPE (J/Kg)	47
LCL (m)	878	CINH (J/Kg)	95
CCL (m)	2217	LI(°C)	3.06
DRT ICA	8.12	PB	3.5
Cloud Base (meters)	2124	CRP ICA	-
Warm Cloud Depth (meters)	975	Cloud Base Temp (°C)	8.9

Discussion:

Isolated showers and a few thunderstorms have formed as of 1730Z mainly across Medina, Uvalde and Bandera Counties. The pilot launched just before 18Z and headed west. Upon arrival the pilot reported that the cells looked pretty embedded but that there was a good amount of vertical development. Upon arrival the pilot reported decent inflows and burned 4 glaciogenic into cell 52 over Frio County. Pilot then went north to a cell near Castroville. Upon arrival the pilot reported very good inflows and burned 2 glaciogenic and 1 hygroscopic flares within cell 97. Pilot then seeded cell 84 on Bexar County/Medina County line and burned 2 glaciogenic flares Pilot now headed west towards a cell nearing D'Hanis. Previous cells looked to respond well to seeding with increased reflectivities, new updraft areas with precip south of Castroville in SW Medina County. Upon arrival pilot reported well over 1000 ft/min inflow and burned 11 glaciogenic and 1 hygroscopic flare into cell 117. Similar to the cell near/over Castroville, additional updrafts and clouds with precip formed around the initial target cell 117. Pilot also reported he was just power and fully idle getting 500 fpm on his VSI so it was close to about 1400 ft/min. Pilot now headed west to a cell east of Uvalde and over Uvalde. Upon arrival pilot burned both glaciogenic and hygroscopic flares into cells 88 and 159. Pilot now headed back east towards Floresville where cells have formed just north in SE Bexar County. Upon arrival pilot found great inflow and used both glaciogenic and hygroscopic flares within cell 192. Pilot now heading just NNW of cell 192 to cell 211 just south of Stockdale over Wilson County. Pilot reported a very dark base to the cloud upon arrival with good inflows. Here cell 211 was seeded with glaciogenic flares (out of hygro). Pilot then RTB to re-fuel and re-flare. No other cells for the day by the time of second launch. This concludes operations for the day.

Watches/Warnings: None

Seeded Cell ID's:

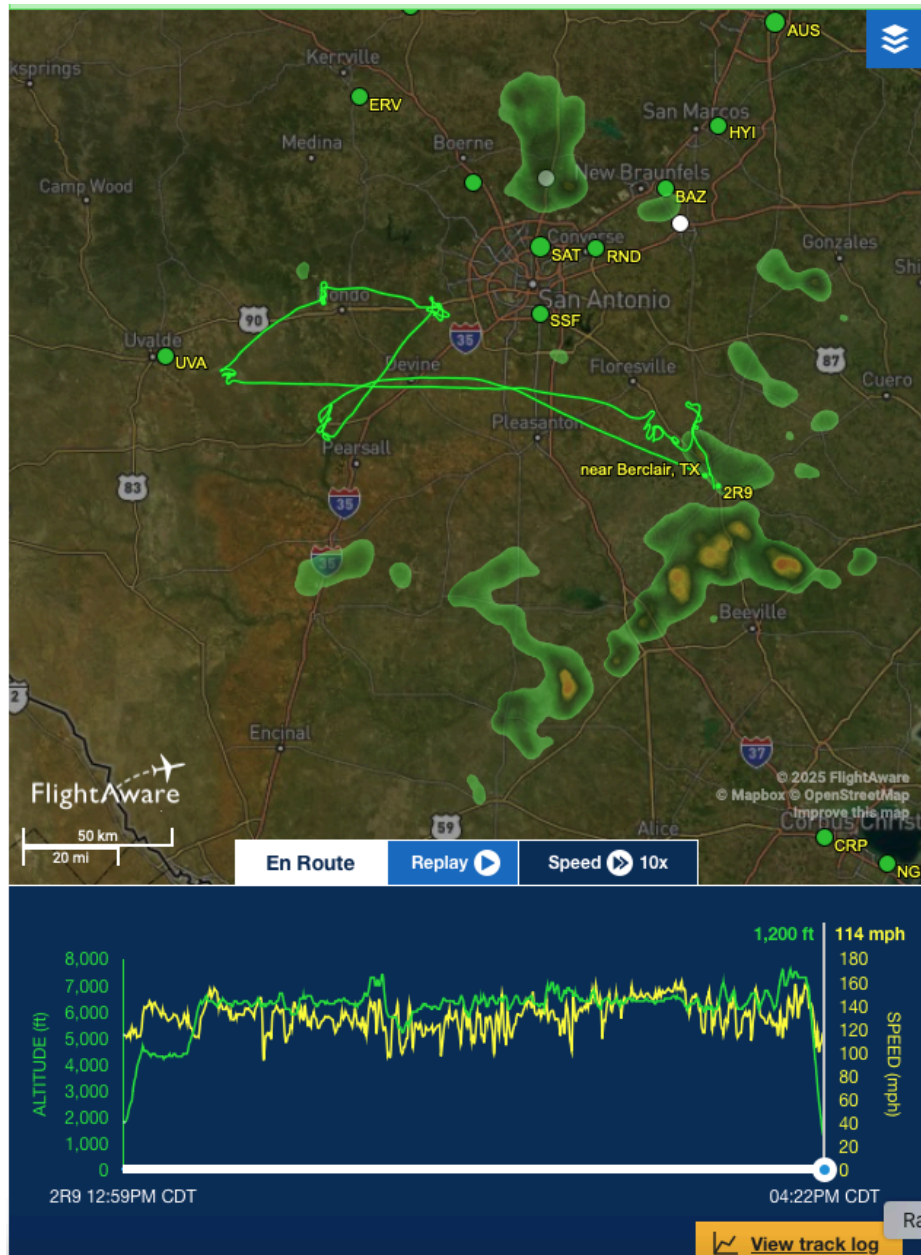
77	97	84	117	88	159	192	211			
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Flight Information:

TIME (Z)	Plane	Flare Location	County
1759	60P	In Air	
1844	60P	270X35	Frio
1847	60P	260X33	Frio
1912	60P	314X32	Medina
1916	60P	314X32	Medina
1927	60P	315X32	Bexar
1938	60P	293X45	Medina
1942	60P	293X45	Medina
1944	60P	293X45	Medina
1945	60P	293X45	Medina
1946	60P	293X45	Medina
2000	60P	276X60	Uvalde
2002	60P	276X60	Uvalde
2004	60P	276X60	Uvalde
2052	60P	60X21	Wilson
2100	60P	81X22	Wilson
2110	60P	67X28	Wilson
2112	60P	67X28	Wilson
2113	60P	67X28	Wilson
2120	60P	RTB	

Seeding operations were conducted over Frio County (4G+0H), Medina County (12G+2H), Bexar County (2G+0H), Uvalde County (6G+1H) and Wilson County (13G+1H). 35 glaciogenic flares and 4 hygroscopic flares were burned within cloud. This is the 2nd day for seeding in May and the 5th day for seeding during the season.

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



Flight 1: 60P