

**SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS**

**SEEDING REPORT - July 22, 2024**

**SYNOPTIC/MESOSCALE CONDITIONS:**

The current weather pattern of troughing across the northeastern and central US will persist, with mid-level disturbances moving across Texas and a surface front gradually pushing southward into the forecast area. Ensemble models suggest that thunderstorms will likely develop in the northern part of the area first, slowly spreading southward due to outflow boundaries and new storm formation. With deep moisture and slow-moving storms, some areas could see localized rainfall of 1-4 inches. The Weather Prediction Center (WPC) has placed almost all of south central Texas at a level 2 of 4 risk for excessive rainfall due to this flooding potential.

**LIFTING MECHANISM:**

**THERMODYNAMIC INDICES -12Z KDRT SOUNDING**

Freezing Level (m)	4830	-15°C Height (m)	7300
Precipitable Water (inches)	2.11	CAPE (J/Kg)	1037
LCL	952	CINH (J/Kg)	77
CCL (m)	1855	LI (°C)	-2.66
DRT ICA	-4.24	PB	3
Cloud Base (meters)	1420	CRP ICA	-
Warm Cloud Depth (meters)	3410	Cloud Base Temp (°C)	21.6

**DISCUSSION:**

As of noon, showers and thunderstorms over the Edwards Plateau are developing south into the northern Hill Country. Pilot launched just before 1PM and headed north to Medina County. Upon arrival, two large clouds were seeded with glaciogenic flares. Pilot reported that "outflow was to the ground and that his position was as close as he could get". Pilot then headed to Bee County where some seabreeze showers looked to move further inland. Here, one cloud was seeded with glaciogenic flares. Next, the pilot headed to Karnes County, burning one into one cloud near Karnes City. Another cloud was burned in northeast Karnes County with glaciogenic flares. Pilot reported that it was becoming difficult to maneuver through clouds so pilot RTB KPEZ. Pilot also reported strong winds at KPEZ when landing. Pilot was about to launch and head back to Karnes County and other areas but is having an issue with fuel. Pilot in air just after 2030Z and headed to Wilson County where additional showers and thunderstorms formed along the seabreeze and other outflows from surrounding storms. Pilot reported "there wasn't much to the cloud" and lacked inflow so pilot headed back towards Medina County near Hondo and also reported a lack of inflow. Pilot then RTB UVA.

**WATCHES/WARNINGS : NONE**

**SEEDED CELL ID' S:**

2316	2714	2976	A	3550						
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**FLIGHT INFORMATION:**

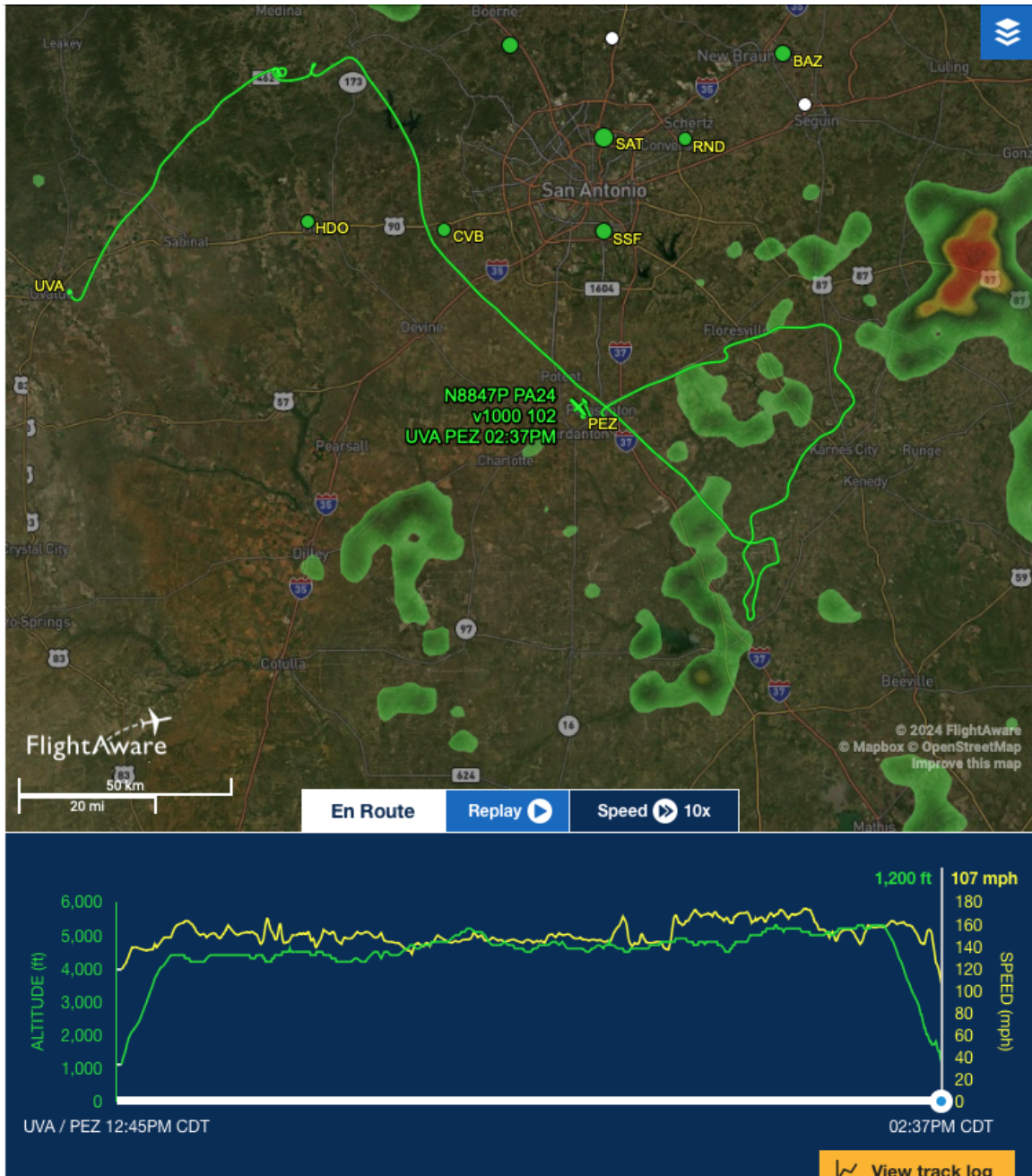
TIME (Z)	Plane	Flare Location	County
1735	47P	In Air	
1806	47P	036x39	Medina
1811	47P	037x40	Medina
1859	47P	102x101	Bee

1908	47P	095x96	Karnes
1916	47P	090x99	Karnes
2020	47P	RTB	
2036	47P	In Air	
2146	47P	RTB	

Seeding operations were conducted over Medina (3G+0H), Bee (2G+0H), and Karnes (4G+0H) Counties. 9 glaciogenic flares and 0 hygroscopic flares were burned within 5 clouds. This is the 11th day for seeding in July and the 18<sup>th</sup> day for seeding during the season. EAA Flares, 3 Glaciogenic, 0 Hygro, 16.5 AgI.

\*\*Note - changes to this season reporting - 1 hygroscopic flare = 500g, not 1kg\*\*

# Flight #1



# Flight#2



Past Flight    [Replay](#)    [Speed 10x](#)    [Loop Off](#)

