

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - MAY 23, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Weak diffluence at 250mb over south Texas; shear axis/weakness in height field from 700mb to 300mb over central/south Texas; vertically-stacked low moving NW across Mississippi coast; upper level trough coming ashore west coast with another weak upper low near Four Corners area; PW values 1.40-1.90"; moderate to strong instability, with CAPE values in excess of 2500 J/kg and LI's to -8; uncapped atmosphere; convective temperature ~82°F.

LIFTING MECHANISM:

Strong surface heating; lift resulting from shear axis in vicinity; weak lift from diffluence aloft.

DISCUSSION:

Convection once again initiated over the southern Hill Country/Balcones Escarpment during the late morning hours as strong heating allowed the low convective temperatures to be realized early. Flight number 1 was dispatched to Medina and Uvalde counties where seeding took place (no randomization due to close proximity of cells). Additional seeding was done in Atascosa County before the plane landed. A second flight looked at developing convection in the eastern target area, with seeding done in Bee, Karnes and Wilson counties. Additional convection moved into Live Oak and a third flight was dispatched to the area, with some seeding done before warnings and lowering of ceilings ended the mission.

WATCHES/WARNINGS/LIMITATIONS:

Severe T-storm - SW Bandera Co.: 1733-1800 UTC.
Severe T-storm - Central Bexar Co.: 1854-1930 UTC.
Severe T-storm - S Bexar Co.: 1925-2015 UTC.

The pyrotechnics were 40g flares. 57 flares were burned in Medina (21), Uvalde (4), Karnes (10), Bee (14), Atascosa (2), Wilson (2) and Live Oak (4) counties, totaling 2280g of AgI.