

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - MAY 11, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Quasi-zonal flow at upper levels across the U.S. with a 5880m high over southern Baja and a low-amplitude trough over the eastern U.S.; slight weakness in southern U.S. ridge (at 500mb) over Texas along with cooler temperatures; moist flow surface to 850mb from the south and southeast, resulting from surface high pressure over the northern Gulf; stationary boundary just north of the target area; strong instability over the eastern target area, with CAPE values in excess of 3500 J/kg and LI values to -9; PW values between 1.45" and 1.65"; convective temperature on CRP sounding was 82°F, and at DRT was 103°F.

LIFTING MECHANISM:

Strong surface heating.

DISCUSSION:

A slight weakness in the 500mb height field over south Texas along with intense heating and the presence of strong instability resulted in scattered convection developing over mainly the eastern half of the target area. A flight was launched after 2pm to investigate, with several clouds being seeded in Wilson, Atascosa and McMullen counties. Another flight was launched late in the afternoon as additional convection formed in the central target area.

WATCHES/WARNINGS/LIMITATIONS:

Nil.

The pyrotechnics were 40g flares. 22 flares were burned in Wilson (12), McMullen (2) and Atascosa (8) counties, totaling 880g of AgI.