

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - MAY 15, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Weak diffluence at 250mb over south Texas; weakness in 500mb heights over central and south Texas along with light winds at this level; 500mb trough southwestern U.S. with another trough over northern Rockies/northern Plains; surface to 700mb high centered over SE U.S. with return moist flow generally at/below 850mb; sufficient moisture, particularly over eastern half of target area, with PW values ranging from 1.25" west to 1.75" southeast; moderate to strong instability over eastern target area with CAPE values in excess of 2500 J/kg and LI values to -7; convective temperature 80°F from CRP sounding.

LIFTING MECHANISM:

Strong surface heating; weak lift from diffluence aloft.

DISCUSSION:

Streamer showers developed in the morning hours near/just east of the eastern target area border. This activity moved northwest and continued to build/intensify into thunderstorms. A flight was launched during the noon hour with several clouds in the eastern half of the target area being seeded as they pushed north and northwest. A second flight later in the afternoon ended up being a reconnaissance flight as the activity being investigated did not have a well-defined cloud structure nor inflow.

WATCHES/WARNINGS/LIMITATIONS:

Nil.

The pyrotechnics were 40g flares. 28 flares were burned in Karnes (14), Bee (5), Live Oak (3) and Atascosa (6) counties, totaling 1120g of AgI.