

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

**SEEDING REPORT - AUGUST 13, 2009**

**SYNOPTIC/MESOSCALE CONDITIONS:**

500mb trough over eastern U.S. with shortwave moving southward across Texas on west side of trough; 500mb high centered near Albuquerque with ridging southwestern quarter of U.S., both features promoting northerly flow aloft over Texas; ample moisture, with PW values 2.33" at CRP and 1.99" at DRT; moderate to strong instability, with LI's to -7 and CAPE values in excess of 2500 J/kg; seabreeze moving inland; convective temperature around 95°F.

**LIFTING MECHANISM:**

Intense surface heating; convergence along seabreeze boundary.

**DISCUSSION:**

Overnight convection across the target area left behind residual mid-level cloudiness which initially hampered strong heating across much of the target area. However, areas began to clear out beginning around noon and by mid-afternoon, isolated convection began to develop along the seabreeze front as it moved inland. A flight was launched to investigate development over southern Bee County, with some seeding taking place. Additional convection developed along the seabreeze as it pushed into Live Oak and McMullen counties during the late afternoon to early evening hours.

**WATCHES/WARNINGS/LIMITATIONS:**

Nil.

The pyrotechnics were 40g AgI flares and 1000g CaCl flares. 22 AgI flares were burned in San Patricio (1), Live Oak (11) and Bee (10) counties, totaling 880g of AgI. Two hygroscopic (CaCl) flares were burned in Bee (1) and McMullen (1) counties, totaling 2000g of CaCl.