

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - AUGUST 27, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

850-250mb low over near New Orleans with 65kt jet streak at 250mb rounding the base of the low over northern Gulf; 500mb shortwave over northern Texas; surface cold front across northwest Texas; moisture gradient across south Texas from northwest to southeast, with highest moisture southeast; 00Z PW at CRP 1.61", 1.19" at DRT; outflow boundary moving south from convection over central Texas.

LIFTING MECHANISM:

Lift from shortwave; convergence along outflow boundary.

DISCUSSION:

Scattered convection developed over central Texas during the afternoon hours with some organization noted. An outflow boundary emanating from this activity pushed south toward the northern target area during the evening hours with additional convection developing along it. This activity pushed into the northern tier of counties between 01-02 UTC. A flight was launched to investigate the approaching convection. Radar indicated unfavorable convection over Medina County, with more suitable clouds across central and southern Bexar County and western Wilson County, where seeding took place. The mission was terminated when the plane could no longer reach the leading convective activity due to clouds along/above the outflow boundary. The convection moved through the eastern target area during the nighttime hours.

WATCHES/WARNINGS/LIMITATIONS:

Nil.

The pyrotechnics were 40g AgI flares. 11 AgI flares were burned in Bexar (6), Atascosa (2) and Wilson (3) counties, totaling 440g of AgI.