

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - October 3, 2007

SYNOPTIC/MESOSCALE CONDITIONS:

High pressure over the east coast. Low pressure over Ontario draws a cold front near Abilene and Trans-Pecos. Upper level ridge over Texas.

LIFTING MECHANISM:

Frontal boundary; sufficient surface heating.

DISCUSSION:

MOSTLY SUNNY THROUGH THE AFTERNOON. CLOUDS BEGIN BOILING UP AROUND 2PM AND PILOT IS PUT ON STANDBY. ONLY ONE PILOT WAS AVAILABLE. SENT PILOT AS FIRST ECHOE POP UP AFTER 230PM. STORMS DEVELOPED RAPIDLY; FIRST WITH VERY LARGE ANVIL LIKELY HINDERED ADDITIONAL DEVELOPMENT OF THE CLOUD DUE TO LOSS OF HEATING. CONVECTIVE TEMPERATURE AT MIDLAND WAS 88 AND DEL RIO WAS 100. 2PM TEMPERATURES WERE 90 AT SAN ANGELO AT 91 AT MIDLAND. PILOT FOUND 400-1200 FT/MIN INFLOW. BASES WERE FOUND ~7000-7500 FT WITH A BASE TEMPERATURE OF 15-17°C.

THE SOUTHERN REGION HEADQUARTERS LEVEL 2 RADAR DATA SERVER CRASHED DURING OPERATIONS AND AN HOUR OF RADAR AND TRACK DATA WAS LOST. OPERATIONS CONTINUED OVER CROCKETT COUNTY DURING THE OUTAGE.

WATCHES/WARNINGS:

SEVERE THUNDERSTORM WARNING FOR IRION COUNTY AT 340PM
SEVERE THUNDERSTORM WARNING FOR TOM GREEN PANHANDLE AT 540.

SEEDED CELL ID'S:

39, 140, 225.

FLIGHT INFORMATION:

TIME (z)	PLANE	FLARE LOCATION
2038	41P	240° @ 45nm (RE)
2049	41P	230° @ 47nm (CR)
2114	41P	242° @ 21nm (IR)
2143	41P	220° @ 50nm (CR)
2146	41P	220° @ 49nm (CR)
2157	41P	229° @ 56nm (CR)
2203	41P	239° @ 57nm (CR)
2207	41P	227° @ 58nm (CR)
2253	41P	170° @ 42nm (SU)
2256	41P	173° @ 40nm (SU)
2306	41P	172° @ 42nm (SU)
2310	41P	Return to base

Seeding operations were conducted over Crockett (17), Irion (3), Reagan (3), and Sutton (6) with good results. 29 flares were burned within 3 large clouds. Surface heating and a weak frontal boundary produced clouds over the target area. This is the second day for seeding in October and 45th day for seeding during the season. In "**FLARE LOCATION**", CR is Crockett County, IR is Irion County, RE is Reagan County, and SU is Sutton County.