

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - October 11, 2011

SYNOPTIC/MESOSCALE CONDITIONS:

TROUGH IS EXPECTED TO DIG A BIT DEEPER AND MOVE EAST CREATING A NORTHWEST FLOW ALOFT BY TONIGHT. VERY WEAK SURFACE LOW OVER EASTERN COLORADO WILL PROGRESS EASTWARD TO THE EAST SOUTHEAST. WITH A FRONTOGENIC COL TO THE SOUTHWEST, FRONTOGENESIS IS EXPECTED WHICH WILL EXTEND A COLD FRONT INTO TEXAS OVERNIGHT TONIGHT. WITH THE UPPER LEVEL SUPPORT AND A SURFACE FEATURE, VERY ISOLATED SHOWERS AND THUNDERSTORMS CAN BE EXPECTED THIS EVENING INTO THE NIGHT.

LIFTING MECHANISM:

FRONTAL BOUNDARY, SUFFICIENT HEATING, INSTABILITY.

DISCUSSION:

AT 1830Z ISOLATED SHOWERS AND THUDNERSTORMS DEVELOPED TO THE WEST OF THE TARGET AREA. UPTON, MIDLAND AND CRANE COUNTY HAD SOME NICE CONVECTION OCCUR AND IT WAS MOVING EAST. AIRCRAFT CALLED TO AIR AT 1845Z AND WAS AIRBOURNE AT 1910Z. CAPE VALUES OVER THE TARGET AREA WAS 1,000 TO 1,500 J/KG. AT 1930Z, SHOWERS BECOMING MORE WIDESPREAD IN REAGAN COUNTY AS WELL AS UPTON/MIDLAND COUNTY. HOWEVER SHOWER IN REAGAN COUNTY IS RELATIVELY WEAK. WITH THAT SAID, CAPE VALUES REACHED 2,000 J/KG IN SOME AREAS SO AN AGGRESSIVE APPROACH WAS TAKEN. FIRST ROUND OF STORMS IN REAGAN COUNTY WAS UNSEEDABLE AS NO DEFINED BASES OR INFLOW COULD BE FOUND. ONE PILOT IN 41P SCHEDULED TO BE DROPPED OFF AT MIDLAND, WHILE OTHER PILOT WILL RETURNED TO AIR AT 2048Z ANTICIPATING ANOTHER ROUND OF POTENTIAL STORMS IN REAGAN/GLASSCOCK COUNTIES. THESE STORMS DID PUSH INTO GLASSCOCK AND REAGAN COUNTIES AT ROUGHLY 2100Z. DESPITE STRONG CAPE VALUES, INFLOW WAS HARD TO FOUND. PILOT BEGAN HAVING LUCK ON A STORM IN GLASSCOCK AND LATER IN STERLING COUNTIES. *AIRCRAFT 8549P USING 80G FLARES; OTHER AIRCRAFT ARE USING 40G FLARES.*

WATCHES/WARNINGS:

NONE

SEEDED CELL ID'S:

14, 21

FLIGHT INFORMATION

TIME (z)	PLANE	FLARE LOCATION
2109	41P 298°	@ 52nm (GL)
2126	41P 295°	@ 42nm (ST)
2131	41P 297°	@ 39nm (ST)
2133	41P 297°	@ 38nm (ST)
2135	41P 298°	@ 38nm (ST)
2144	41P 294°	@ 37nm (ST)
2149	41P 293°	@ 35nm (ST)
2205	41P	Return to Base

Seeding operations were conducted over Sterling (12) and Glasscock (2) Counties. 14 flares were burned within 2 small clouds. This is the first day for seeding in October and the 36th day for seeding during the season. In "FLARE LOCATION", ST is for Sterling and GL is for Glasscock.