

Southwest Texas Rain Enhancement Association

Flight Activity Report

May 14th, 2010

Synoptic conditions:

An MCS moved through the area during the early to late morning hours due to a shortwave moving over the region. This MCS was move to the east/southeast but produced a southwesterly propagating outflow boundary that moved into the target area during the afternoon hours when peak heating. This outflow boundary combined with peak heating and ample moisture and allowed for convection to occur today.

Mesoscale Discussion:

As the outflow boundary moved across LaSalle, Dimmit, and Webb counties, it triggered convection to occur there. A seeding mission was launched as this convection started to occur in the eastern target area. During the flight, the pilot could not find very many workable bases and inflow was also hard to come by. Finally with a few cells in LaSalle, the pilot was able to find very small areas of inflow. He then worked his way to the west and southwest into Dimmit and Webb counties, where he found much of the same. Bases were very unorganized and inflow was hard to find. However, the pilot was able to find areas of inflow when the SSS feature was used on TITAN. As well, the pilot stated numerous times that visibility was very poor in the areas of convection. Seeding took place in LaSalle, Dimmit, and Webb counties. The pilot concluded seeding and headed back to base. Another cell did form just to the east of Webb County and as it moved in, a flash flood warning was issued on it so no seeding was conducted. Soon after the pilot was heading back to base, a rather large cell developed just south of Encinal. Another pilot was launched on this cell as it continued to look very favorable for seeding. A severe thunderstorm warning was issued on it but soon after, a flash flood warning was issued and seeding was not able to be done.

Operational Notes:

None.

Warnings:

Severe Thunderstorm Warning:

SE Webb: 2341Z- 0030Z

Central Webb:

Flash Flood Warning:

SE Webb: 0003Z – 02Z

SW LaSalle/Central Webb: 0021Z- 01215Z

First flight – 370P

25 Flares → 25(40g) Flares → 1000g AgI Rain Enhancement

Flare (# of flares)	Time (Z)	Radial and Distance	Track number	County	Inflow (ft/min)
1-2	2056	154@19	1723/1807	LA	500
3-4	2057	153@20	1723/1807	LA	500
5-6	2100	155@18	1723/1807	LA	300
7-8	2102	155@17	1723/1807	LA	500
9-11	2225	248@43	2147/2188	DM	1000
12-14	2228	249@44	2147/2188	DM	600
15-16	2230	250@44	2147/2248	DM	500
18-19	2310	197@29	2256	WB	500
20-22	2312	197@28	2256	WB	500
23-25	2312	200@29	2256	WB	500-600