

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - August 4, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Weak upper ridging remains over the area and should result in similar weather conditions to yesterday. We should see a robust cu field develop over the area. With temperatures similar to yesterday but additional moisture, we could see some cu develop into weak rain showers. However, I don't see enough on the forecast models to warrant rain chances today.

LIFTING MECHANISM:

Upper Level Dynamics, Cool Air Aloft, Weak Boundaries

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	5341	CAPE (J/Kg)	334
Precipitable Water (inches)	1.62	CINH (J/Kg)	85
LCL	683	LI(°C)	-1.6
CCL	1879	PB	2
MAF ICA	-6.96	DRT ICA	1.04
Cloud Base (meters)	1861	Cloud Base Temp (°C)	16
Warm Cloud Depth (meters)	3480		

DISCUSSION:

DESPITE A DRY FORECAST, AN INTERESTING LINE OF CU DEVELOPED BETWEEN 15 AND 16Z. THIS PEAKED ENOUGH INTEREST VISUALLY BY THE METEOROLOGIST TO MONITOR. AT 1540Z, THE CELL BEGAN TO GROW VERTICALLY VERY QUICKLY JUST NORTH OF EASTERN SCHLEICHER COUNTY. THIS STORM APPEARED TO BE MOVING SOUTH TOWARDS SCHLEICHER COUNTY, AND DESPITE IT BEING EARLY, WE DECIDED TO LAUNCH ON IT. THIS WILL BE BY FAR THE EARLIEST LAUNCH OF THE SEASON. ADDITIONALLY, THE CU FIELD WAS BECOMING MORE ROBUST TO THE EAST BUT ALSO JUST WEST OF SJT. PILOT GOT AIRBORNE AND INTERCEPTED THE STORM AT 1615Z AS IT WAS MOVING INTO SCHLEICHER COUNTY. SURPRISINGLY, STORM HAS HELD TOGETHER WELL AT THIS POINT. CELL 191 WAS HEAVILY SEEDED THROUGH 1630Z. IT DID SEEM TO RESPOND VERY FAVORABLY TO SEEDING AT THIS POINT. ALSO, THERE IS A CLOUD JUST A BIT EAST OF IT THAT IS TOO FAR EAST FOR SEEDING THAT WILL BE A GREAT CONTROL CLOUD. WITH THIS CELL SUFFICIENTLY SEEDED, FOR NOW, WE'LL DIVE SOUTH INTO SUTTON COUNTY WHERE OTHER STORMS WERE TRYING TO FIRE. PILOT MADE IT TO SUTTON COUNTY JUST BEFORE 17Z. WE STARTED WITH A HYGRO DUE TO LIMITED VERTICAL DEVELOPMENT. WE WILL SEE HOW STORM RESPONDS TO THE HYGRO AND A DOSAGE OF GLACIOGENIC FLARES. MEANWHILE, FIRST CELL WAS STILL ONGOING WHILE THE ASSUMED CONTROL CLOUD HAS COMPLETELY FALLEN APART. STORM 201 SEEDED IN SUTTON COUNTY WAS VERY SMALL, BUT DID HAVE SOME INFLOW. AFTER A BIT, IT BEGAN TO FALL APART BUT ONCE WE MADE THE DECISION TO HEAD TOWARDS CROCKETT COUNTY, IT DID SEEM TO HAVE A SMALL RESPONSE. WE WILL TAKE A LOOK AT SHOWERS/STORMS IN NE CROCKETT COUNTY BACK EAST TOWARDS SCHLEICHER COUNTY. THE CELL IN NE CROCKETT COUNTY WAS VERY SMALL, BUT WE'LL GIVE IT A SHOT. OTHER CONVECTION IS WINDING DOWN AT THIS POINT. BEFORE WE COULD SEED THIS CELL, RAIN PULLED UP AND CELL DIMINISHED. WE DECIDED TO RTB AS MUCH OF THE ACTION WAS WINDING DOWN. STILL TRYING TO FIGURE OUT WHAT CAUSED SUCH EARLY CU FIELD TO POP, BUT IT APPEARS IT WAS DRIVEN BY DYNAMICS ALOFT WHICH ARE NOW SPREAD TO THE EAST SOUTHEAST OF THE AREA. DRY CONDITIONS SHOULD BE EXPECTED THE REST OF THE AFTERNOON.

WATCHES/WARNINGS:

N/A

SEEDED CELL ID'S:

191	201								
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
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1600	09P	IN AIR	
1619	09P	129° @ 21 nm	SCHLEICHER
1920	09P	136° @ 21 nm	SCHLEICHER
1621	09P	137° @ 22 nm	SCHLEICHER
1623	09P	137° @ 23 nm	SCHLEICHER
1626	09P	138° @ 21 nm	SCHLEICHER
1627	09P	139° @ 21 nm	SCHLEICHER
1630	09P	138° @ 20 nm	SCHLEICHER
1633	09P	138° @ 24 nm	SCHLEICHER
1659	09P	172° @ 58 nm	SUTTON
1659	09P	173° @ 58 nm	SUTTON
1700	09P	173° @ 59 nm	SUTTON
1702	09P	173° @ 58 nm	SUTTON
1730	09P	RTB	

Seeding operations were conducted in Schleicher (14+1H) and Sutton (4+2H) Counties. 18 flares plus 3 hygroscopic flares were burned within 2 clouds. This is the 1st day for seeding in August and the 20th day for seeding during the season.