

Storm Data and Unusual Weather Phenomena - March 2009

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

NEW MEXICO, Southeast

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/27/09 05:00 MST | 0 | 0 | High Wind (MAX 50 kt) |
| | 03/27/09 05:10 MST | 0 | 0 | |

An unseasonably strong upper level trough moved across central New Mexico. A strong mid level jet located just down stream of this trough provided enough momentum transfer to the surface, resulting in high winds across the Guadalupe Mountains of New Mexico.

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY, (NM-Z028) EDDY COUNTY PLAINS

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/30/09 08:53 MST | 0 | 0 | High Wind (MAX 53 kt) |
| | 03/30/09 14:03 MST | 0 | 0 | |

A strong mid level jet max rotated through the base of a strong upper level trough moving over the Northern Rockies. These strong winds mixed towards the surface of the higher terrain of the Guadalupe Mountains of south central New Mexico and a portion of the adjacent plains of southeast New Mexico.

TEXAS, West

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/05/09 05:00 MST | 0 | 0 | High Wind (MAX 63 kt) |
| | 03/05/09 05:10 MST | 0 | 0 | |

An increase in mid level winds mixed down to the surface of the higher terrain in the Guadalupe Mountains of Texas. The winds eventually subsided later that afternoon as the core of higher mid level winds migrated northward.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/06/09 16:00 MST | 0 | 0 | High Wind (MAX 56 kt) |
| | 03/06/09 19:10 MST | 0 | 0 | |

As an upper level trough approached the region from the northwest, strong mid level winds near the base of the aforementioned trough mixed down to the surface of the higher terrain of the Guadalupe Mountains of Texas.

MITCHELL COUNTY --- 10.0 SSE COLORADO CITY [32.27, -100.78]

| | | | | |
|--|--------------------|---|---|-------------------------|
| | 03/10/09 22:05 CST | 0 | 0 | Hail (0.88 in) |
| | 03/10/09 22:06 CST | 0 | 0 | Source: Trained Spotter |

Low level moisture increased across the eastern CWA, while an embedded mid level shortwave trough within the southwest flow aloft approached Southwest Texas. Although surface based instability was not very impressive, most unstable CAPE values approached 1000 to 1500 j/kg during the early evening hours, near a sharpening dryline. In addition, 0-6 km bulk shear vector magnitudes were sufficient for updraft rotation. Coverage remained limited, and east of the dryline where the greatest low level convergence was observed along a 30 to 40 knot 850 hPa jet axis.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/11/09 05:28 MST | 0 | 0 | High Wind (MAX 35 kt) |
| | 03/11/09 19:35 MST | 0 | 0 | |

A strong cold front passed over the Guadalupe Mountains of Texas. The northeast to east winds behind this front resulted in funneling through the Guadalupe Pass, along with sustained wind speeds around 40 mph for almost 14 hours.

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/23/09 10:05 CST | 0 | 0 | High Wind (MAX 55 kt) |
| | 03/23/09 11:50 CST | 0 | 0 | |

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|---|-----------------------|
| | 03/23/09 16:00 MST | 0 | 0 | High Wind (MAX 55 kt) |
| | 03/23/09 17:00 MST | 0 | 0 | |

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A strong mid to upper level trough moved across the Southern Rockies. An associated mid level jet max moving through the base of this trough resulted in high winds across the Guadalupe Mountains of West Texas.

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | |
|--|--------------------|---|-----------------------|
| | 03/23/09 17:51 MST | 0 | High Wind (MAX 65 kt) |
| | 03/27/09 01:10 MST | 0 | |

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | |
|--|--------------------|---|-----------------------|
| | 03/26/09 10:25 CST | 0 | High Wind (MAX 65 kt) |
| | 03/26/09 10:30 CST | 0 | |

A mid level jet max associated with an upper level shortwave trough moved across the Guadalupe Mountains of West Texas. These winds mixed down to the surface of the higher terrain, resulting in strong westerly winds. A similar scenario took place the following day, as the main upper level trough moved over the region.

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | |
|--|--------------------|---|-----------------------|
| | 03/30/09 04:00 CST | 0 | High Wind (MAX 64 kt) |
| | 03/30/09 12:35 CST | 0 | |

(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | |
|--|--------------------|---|-----------------------|
| | 03/30/09 08:00 MST | 0 | High Wind (MAX 64 kt) |
| | 03/30/09 16:16 MST | 0 | |

A strong mid level jet max rotated through the base of a strong upper level trough moving over the Northern Rockies. These strong winds mixed towards the surface of the higher terrain of the Guadalupe Mountains and Davis Mountains of West Texas.