

VORTEX-2: SUNY Oswego Soundings Team Significant Observed Weather Events

Kevin M. Smith

Summary Last Updated: Final Update

The following is a chronological listing of significant weather conditions observed by the SUNY Oswego Soundings Team while on VORTEX-2. More common events such as wall clouds, mammatus clouds, cloud lowerings, shelf clouds, rotation, and beaver tails are not included in this summary.

...Format...

Time/Day/Date

Event

Cross Street – Location – County

Comments

08:08 PM CDT Sunday, May 23, 2010

FUNNEL CLOUD

Route 25/40 at County Road 270 - 4 Miles NE of Winona, KS - Logan County

- Rotating funnel cloud rapidly emerged from ragged scud under a supercell approximately 12 miles north of this location.

08:09 PM CDT Sunday, May 23, 2010

TORNADO

Route 25/40 at County Road 270 - 4 Miles NE of Winona, KS - Logan County

- Narrow tornado rapidly touched down approximately 12 miles north of this location for 20 seconds before lifting. Funnel cloud and lowering noted for several minutes following dissipation of tornado.

10:49 PM CDT Sunday, May 23, 2010

SEVERE WIND

Interstate 70 at South Range Avenue - Colby, KS - Thomas County

- Wind estimated at 65 MPH sustained, with additional subsequent gusts estimated at 65 MPH for next several minutes as thunderstorm moved northward across Colby. Heavy garbage can blown over. Report called in to the National Weather Service in Goodland, Kansas.

10:54 PM CDT Sunday, May 23, 2010

HAIL

Interstate 70 at South Range Avenue - Colby, KS - Thomas County

- Six minutes of 0.75 inch diameter (dime-sized) to 0.88 inch diameter (nickel sized) hail. Flash flooding of parking lot. Report called in to the National Weather Service in Goodland, Kansas.

06:48 PM CDT Monday, May 24, 2010

SEVERE HAIL

Interstate 80 at Route 83 - North Platte, NE - Lincoln County

- 1 minute of 1.25 inch diameter hail. Hail was displaced from updraft and hail core located to our north with no precipitation falling and likely was blown up and out the southeast side of thunderstorm cell.

07:05 PM CDT Monday, May 24, 2010

HAIL

Interstate 80 at Exit 190 - 2 Miles South of Maxwell, NE - Lincoln County

- 30 seconds of pea-sized hail observed as small cell crossed Interstate 80.

07:34 PM CDT Monday, May 24, 2010

FUNNEL CLOUD

Interstate 80 at Route 21 (South Meridian Avenue) - Cozad, NE - Dawson County

- Wall cloud with lowering and funnel cloud observed several miles west of this location.

04:59 PM CDT Tuesday, May 25, 2010

FUNNEL CLOUDS

Route 27 - 8 Miles South of Tribune, KS - Greeley County

- Two separate narrow condensation funnels observed approximately 20 miles northwest of this location. Funnels were more than half way to ground.

05:01 PM CDT Tuesday, May 25, 2010

TORNADOES

Route 27 at Mile Marker 106 - 7 Miles South of Tribune, KS - Greeley County

- Two separate tornadoes on the ground approximately 20 miles west/northwest of this location.

05:49 PM CDT Tuesday, May 25, 2010

FUNNEL CLOUD

Route 96 - 2 Miles West of Towner, CO - Kiowa County

- Funnel cloud observed looking northwest. Classic wall cloud and beaver tail with strong inflow evident. Funnel cloud formed and dissipated over a period of several minutes with additional lowering still evident thereafter.

06:19 PM CDT Tuesday, May 25, 2010

FUNNEL CLOUD

Route 96 at County Road 5 - 5 Miles East of Towner, CO - Greeley County

- Small, clearly-defined funnel cloud emerged from rotating lowering approximately 8 miles northwest of this location.

06:21 PM CDT Tuesday, May 25, 2010

TORNADO

Route 96 at County Road 5 - 5 Miles East of Towner, CO - Greeley County

- Tornado touched down for 30 seconds approximately 8 miles northwest of this location. Remaining funnel cloud after tornado lifted fell apart within minutes. Report called in to the National Weather Service in Dodge City, Kansas.

06:51 PM CDT Tuesday, May 25, 2010

FUNNEL CLOUD

Route 27 at Mile Marker 113 - 8 Miles North of Tribune, KS - Greeley County

- White funnel cloud slowly descended from western edge of wall cloud approximately 6 miles north/northwest of this location.

06:55 PM CDT Tuesday, May 25, 2010

TORNADO

Route 27 at Mile Marker 113 - 8 Miles North of Tribune, KS - Greeley County

- Strongly rotating funnel cloud produced very white, narrow tornado that briefly touched down for about 10 seconds before lifting again approximately 6 miles north of this location just to the left of Route 27.

04:07 PM CDT Wednesday, May 26, 2010

FUNNEL CLOUD

Interstate 70 at Mile Marker 313 - Byers, CO - Arapahoe County

- Ragged appearance. Observed approximately 35 miles northwest of this location. Clearly visible for 2 minutes with lowering still visible after dissipation of funnel cloud. Tornado touchdowns and hail accumulation of 12 inches reported near Denver International Airport with this storm.

04:11 PM CDT Wednesday, May 26, 2010

TORNADO

Interstate 70 - 1 Mile Southwest of Strasburg, CO - Adams County

- Funnel cloud again observed almost all the way to the ground approximately 20 miles northwest of this location. Based on later photograph analysis, tornado appeared to be on the ground. Visible for a period of several minutes between terrain obstructions.

04:14 PM CDT Wednesday, May 26, 2010

FUNNEL CLOUD

Interstate 70 at Wagner Street - Strasburg, CO - Adams County

- Funnel cloud noted again approximately 20 miles northwest of this location. Funnel cloud remained visual for 15 minutes along Route 79 heading northward in Adams County. Ragged lowering at base of wall cloud remained after dissipation of funnel cloud.

05:20 PM CDT Wednesday, May 26, 2010

SEVERE HAIL

Route 52 at Route 79 - Prospect Valley, CO - Weld County

- Above time estimated. Measured 2.00 inch diameter (hen egg-sized) hail scattered on ground at 5:52 PM CDT after supercell moved across area. Original hail size was likely larger upon initial contact with ground. Report called in to the National Weather Service in Goodland, Kansas for relay to the National Weather Service in Denver/Boulder, Colorado.

04:40 PM CDT Tuesday, June 1, 2010

HAIL

Route 81 - 5 Miles South of Columbus, NE - Polk County

- Approximately 1 minute of pea-sized hail within torrential rain in supercell thunderstorm in the process of merging with other nearby cells and new development into multi-cell thunderstorm cluster.

04:42 PM CDT Tuesday, June 1, 2010

HAIL

Route 81 - 8 Miles South of Columbus, NE - Polk County

- Light/scattered dime-sized hail observed on and off for approximately 3 minutes along with heavy rainfall in multi-cell thunderstorm cluster. Observed outside of any main hail cores, where larger hail was likely falling.

05:13 PM CDT Tuesday, June 1, 2010

HAIL

Route 92/Route 15 at O Road - 3 Miles Northeast of Garrison, NE - Butler County

- 2 Minutes of dime-sized hail observed.

08:38 PM CDT Tuesday, June 1, 2010

HAIL

Route 77 at Monroe Street - Beatrice, NE - Gage County

- Pea-sized to 0.75 inch diameter (penny-sized) hail fell for 10 minutes from 8:28 PM CDT to 8:38 PM CDT as severe squall line moved through the area. Wind gusts with the line were estimated at 45-50 MPH with no damage observed. Report called in to the National Weather Service in Hastings, NE for relay to the National Weather Service in Omaha, NE.

06:18 PM CDT Thursday, June 3, 2010

HAIL

Route 11 - North Loup, NE - Valley County

- Pea-sized hail fell for about 30 seconds along the far east edge of supercell thunderstorm.

06:36 PM CDT Thursday, June 3, 2010

FUNNEL CLOUD

Route 11 - Cotesfield, NE - Howard County

- Funnel cloud observed approximately 20 miles southwest of this location in Sherman and Howard counties along the front/southwest edge of wall cloud in area of significant lowering. Wall cloud and associated supercell then became more outflow dominated with spectacular shelf cloud observed. Strong gust front developed.