

---

**Confirmed Tornado  
Mildmay, Ontario  
July 8, 2007**

**Date- Local:** Sunday, July 8<sup>th</sup>, 2007

**UTC:** Sunday, July 8<sup>th</sup>, 2007

**Time- Local:** 1900

**UTC:** 2300

**Location:** Mildmay (10 km south of Walkerton)

**Region:** Grey - Bruce

**Classification:** Confirmed Tornado

**Category:** A

**Casualties:** None

**Track Length:** 300 m

**Width:** 40 m

**Motion:** 315 degrees

**Damage Estimate:** None available

**F-Scale Rating:** F1

**Code:** BS

**Damage Survey:** Yes, done by Randy Mawson

**Spotter Reports:** None

**Other Documents:**

Damage survey detailing the event, damages, and eyewitness accounts. Also provide map showing location of tornado as well as location where video was recorded, and photos of damage sustained at farm and photos of the tornado itself

Video of debris circling the funnel after it hit the shed on the farm (On FTP site)

OSPC report detailing damage, track length and width, and debris scatter

Map showing where the two tornados occurred simultaneously (Chauvin farm & Bruce Rd 3)

Chase log from Dave Patrick detailing what he observed

---

## **Tornado F-Scale Assessment**

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

April 19<sup>th</sup>, 2010

---

**Classification:** Confirmed Tornado

**Date:** Sunday, July 8<sup>th</sup>, 2007

**Location:** Mildmay – Chauvin farm, 758 Hwy 9 (10 km south of Walkerton),  
Grey - Bruce Region

**Assessment:** F1

**F-Code:** BS

**Explanation of Assessment:** A farm shed was destroyed as well as a combined  
was pushed several feet.

## Severe Weather Investigation – Mildmay Ontario July 09, 2007 (for the storm on July 08th)

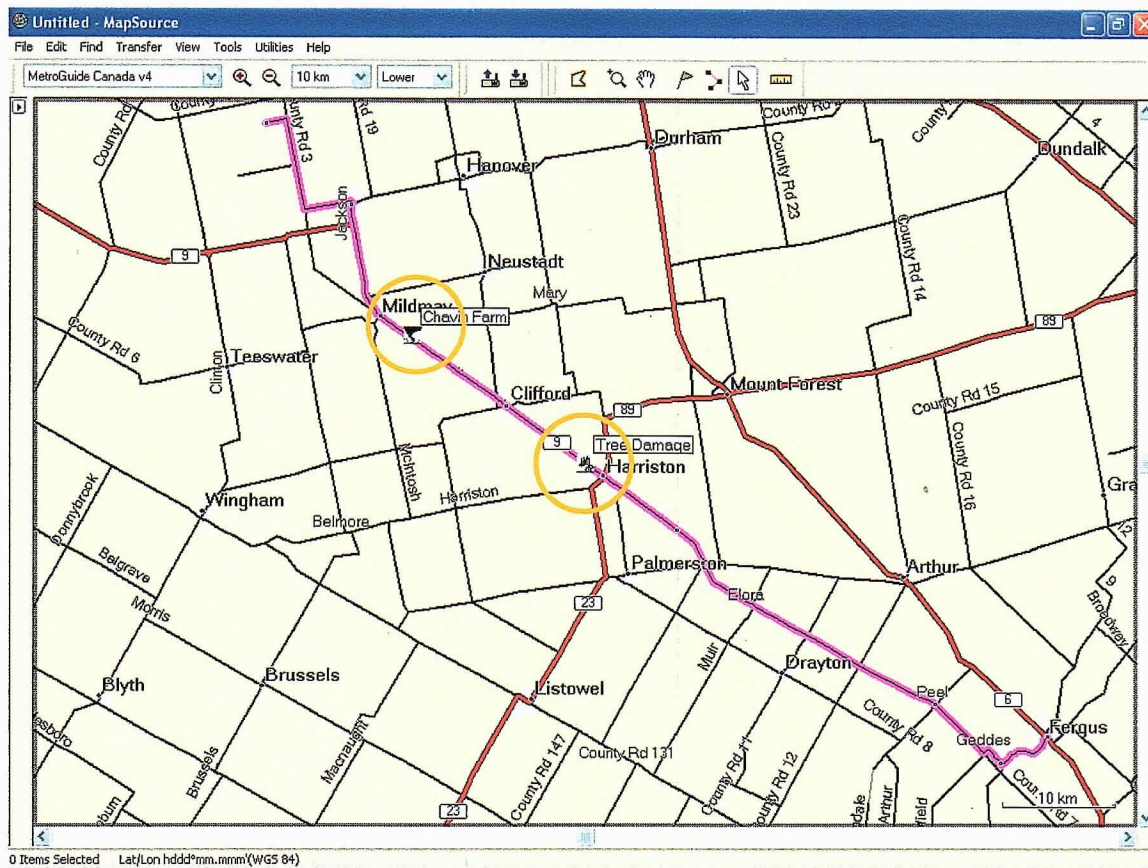
### Quick Facts

Severe Weather Type	Tornado
Location	Mildmay Ontario
Time	1900 EDT
Duration	4-5 minutes
Magnitude	F1 (wind estimated between 160-180 kmh)
Path Length	Approximately 300-350 metres
Direction of Motion	NW-SE
Max. Path Width	Approximately 40 metres
Significant Damage	A large farm implement barn was destroyed and damage was carried for up to 1.5 km

### Background

A long-lived supercell (mesocyclone) moved NW-SE through Southern Ontario on the evening of July 08<sup>th</sup> (Sunday). The track of the storm lasted six to eight hours taking it from Cargill (Grey-Bruce) to as far as Conestoga Lake. The path that I surveyed is shown on the map below based on spotter reports, OPP reports and media tips. I only encountered damage at two locations – Mildmay and Harriston. The building damage at Mildmay was tornadic and the tree damage at Harriston was downburst.

What makes this event unique is that the tornado at Mildmay was well captured by local photographers, both still and movie. Still images and movie files are stored in the Mildmay file at the [FTP site](#), however some still images of the tornado are included in this summary. Very often, storms of this nature are rain-wrapped making the tornado difficult to see or photograph, but this storm presented well to onlookers and photographers as the pictures and movies clearly demonstrate.



## Description of Damage and Witness Accounts

### Matt Chauvin

758, Highway #9

R.R. # 3 Mildmay ON

N0G 1J0

Phone: 519-367-3300

Waypoint 166 (N44.01.550 W081.04.926)

Picture images:

Img\_1344, Img\_1345, Img\_1346, Img\_1347, Img\_1348 (all shown below)

Matt was at home at the time (7 p.m.) the tornado formed and moved through his property. He described darkening skies and increasing wind noise from the approaching storm. His mother confirms the time as a television program she was watching at the time was interrupted at 7 p.m. Both he and his mother saw the tornado form as it approached from the NW. It moved slowly onto his property and he and his mother took shelter until the storm passed. He came up from the basement shortly after the implement shed was destroyed to see the tornado moving towards the SE. He described the funnel as somewhat white in appearance. He observed no hail and very little rain making the tornado quite visible to him and neighbors.





Facing 080 Degrees.  
Outer walls and roof  
have been completely  
removed.



Facing 195 Degrees.  
Destroyed building can  
be seen to the right.  
Track of the tornado is  
from this point to the  
stand of trees distant  
centre. Soybean field  
was completely scoured.  
Wrap-around debris can  
be seen in the near  
foreground.





Facing 210 Degrees.



Facing 290 Degrees.  
Combine (red) was  
pushed to this location  
from the south wall  
(shown by arrow)



Facing 270 Degrees.

**Trish and David Ruetz (pronounced ritz)**

R.R. # 3 Mildmay ON  
 545 Highway 9  
 Conc 6 Lot 21  
 N0G 2J0  
 519-367-2706  
 Waypoint 168 (N44.01.868 W081.04.157)

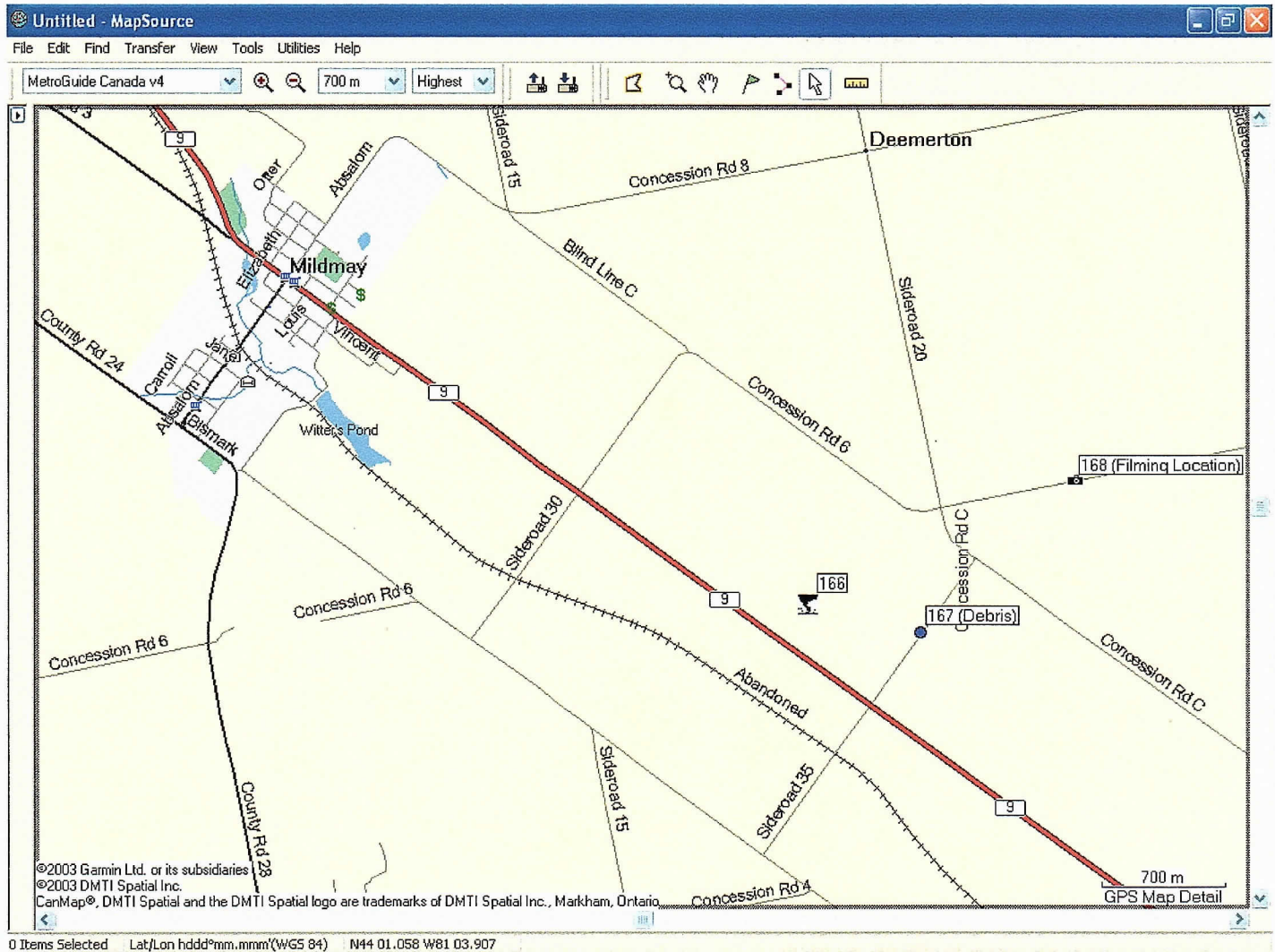
Trish and David became aware of the storm at about 6:40 – 6:45 p.m. and Trish began to video record the storm from her front porch. She provided me with four video clips which show the tornado forming, touching down and subsequently destroying the Chauvin implement shed. The four clips are posted on the FTP site under: Outreach/Svr\_Wx/2007/July/July 08 Mildmay. The clips are labeled: Mov03937, Mov03938, Mov03940, Mov03941

I have included a small map below indicating where the implement shed damage took place and where Trish did her filming of the event. This will allow viewers to put themselves into perspective.

Both described loud wind noises but both remembered more clearly the sound of breaking timbers as the tornado described the shed. No hail was reported....some rain but not at all heavy.



Trish was 1.7 km away from the tornado at the time of shooting and she was facing 245 Degrees true.





**Additional Images (also on the FTP site)**



These two images were taken by  
**Kayla Bross** who lives close by:

R.R. #2  
Hwy 9  
Mildmay, Ontario  
N0G 2J0  
Phone: 519-367-2582

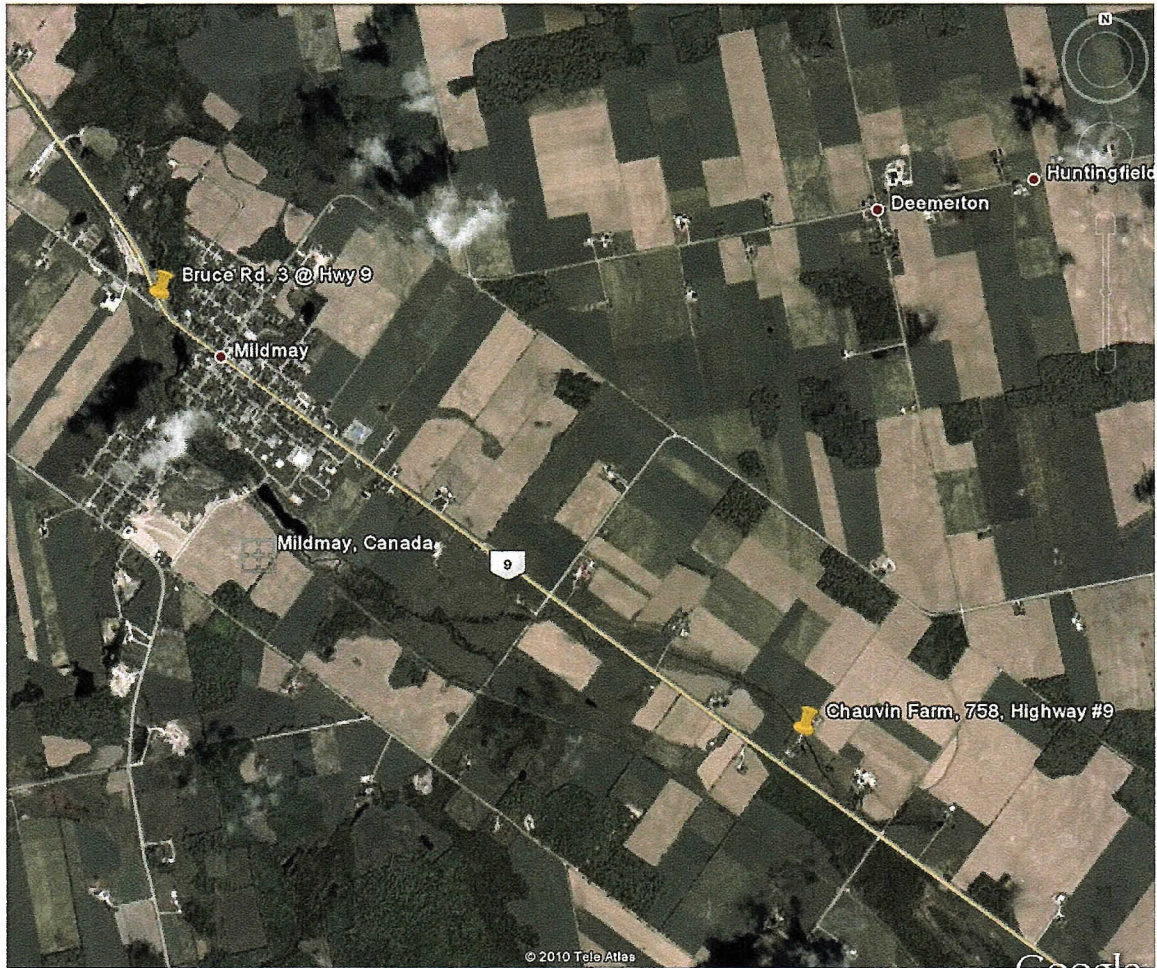
Kayla has given us permission to use  
the pictures in this report and for  
training purposes.



The image shown here was taken  
by an un-named friend of Kayla  
Bross:

For more information: Randy Mawson  
[Randy.mawson@ec.gc.ca](mailto:Randy.mawson@ec.gc.ca)





Map indicates where the two tornadoes occurred simultaneously at 2300 UTC



Tuesday, April 20, 2010

Over 34,893,480 pages visited!

**GMT:**  
13:20**PACIFIC:**  
6:20:23 AM**MOUNTAIN:**  
7:20:23 AM**CENTRAL:**  
8:20:23 AM**EASTERN:**  
9:20:23 AM**ATLANTIC:**  
10:20:23 AM**NEWFOUNDLAND:**  
10:50:23 AM**The Ontario Weather Page***Guiding You Through The Storms.***[Warehousing london ontari](#)**strategic location to economically services  
Ontario & Canada**[Brockville Real Estate](#)**View properties for sale now 3D Tours,  
Interactive Maps and more

Ads by Google

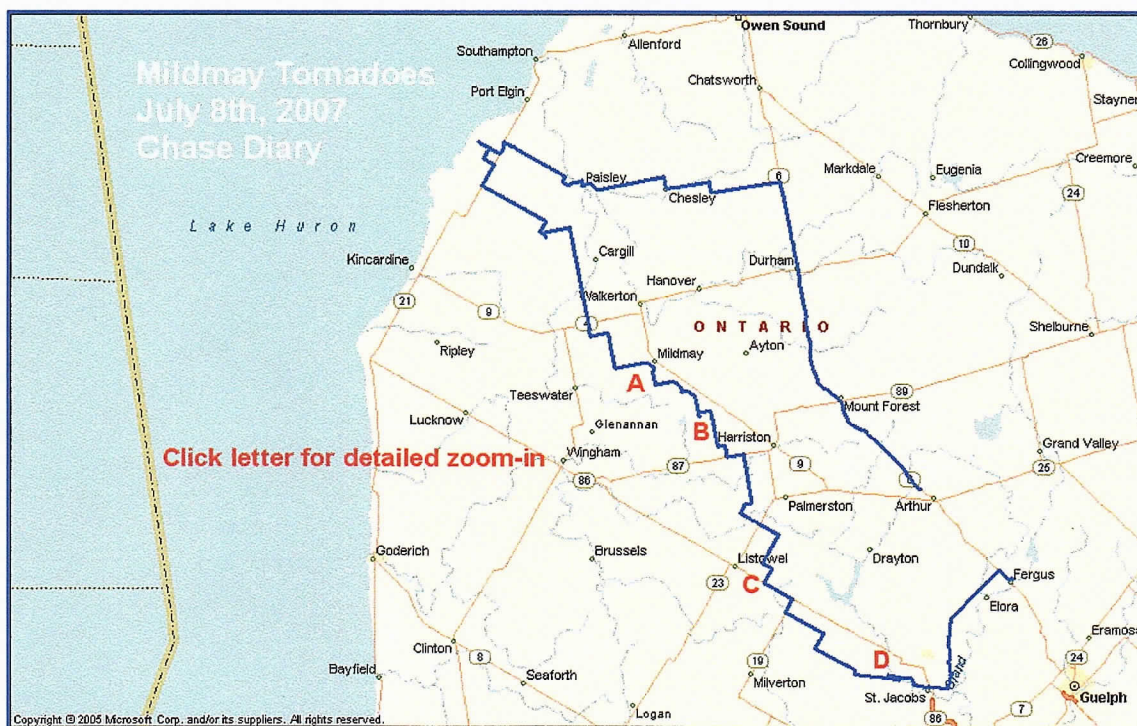
**Quick Navigation:**[Current](#)[Forecasts](#)[Analysis](#)[Summer](#)[Winter](#)[Industry](#)[Specials](#)[Misc.](#)

## Mildmay, Ontario July 8th, 2007

I woke up pretty early on Sunday after looking at the models around 3 am and seeing a really slight chance of tornadic storms in the province. Firing up the computer, I saw a line of storms heading across southern Ontario and drove a short time north for Fergus to find out it was nothing special and drove back home. I checked Ruc models and 12z GFS and WRF and decided that today did hold promise in the afternoon if we got some clearing and heat. So it was load up the truck and wait. At 3 pm edt, I began to notice a boundary from the morning convection to my west trailing northwest into Lake Huron. On the northeastern edge around northern Michigan, a nice strong to severe storms was slowly heading southeastward.

### My Chase

#### GPS Chase Log



A B C D

I took off heading north towards Mount Forest as my original target was between Owen Sound and Southampton. After a phone from my wife Kristy who offered to nowcast, my target area became more westerly as the storm was showing signs of right turning over the lake. I pulled into the region just south of Port Elgin and set up to watch the storm coming in. As it arrived, it really did not look all that great on radar or organized but it was still a nice storm after not chasing for over a month. I snapped a few photos and slowly headed southeast following it.





I made a quick phone to Kristy and she had said things really did not look all that great but was still showing signs of rotation. As I was talking to her, I noticed this feature to my northeast. This 1st thing I thought was this reminds me of that feature we could never identify in the 2005 South Plains tornado! So off I took to take a look at it and get out of the little bit of rain I was encountering.



This is about the time that the storm seemed to morph. You could just feel the energy as it rapidly strengthen and started to organize. It had hit the boundary from the mornings storms and became the biggest supercell I have seen in Ontario in the last 13 years of chasing here. Right before my eyes a huge wallcloud just developed and rotating like a top around 6:15pm.



As I was on the phone with Environment Canada saying this was rapidly rotating and possibly on the ground due to the black dirt it was kicking up, the wall cloud became one the most intense I have seen in North America. At the time of these pictures you can see the dirt and dust being kick up in the wall cloud and hail being wrapped around with the rfd. Not sure if any damage was reported but it was really moving stuff around in there indicating a large ground circulation. At the end of the 1st wall cloud, a small tornado formed for about 20 secs before dissipating.



But this storm was not done. Visible areas of rotation were all around me but very disorganized,



And then it really got organized and produced the biggest wall cloud I have ever seen. Had trouble fitting the size of it in my camera.



This was heading straight for the town of Mildmay. I got on the phone to E.C. about locations when I saw my 3rd tornado of the day. I have taken a vid cap of it. Although the quality sucked, it was there.



Pulling into the outskirts of Mildmay, I realized it would just miss them and stay in rural areas. I pulled over to the side of the road around 6:53pm to see what I thought was a nice white cone tornado. I am not sure if this was the same one or a new tornado but I headed further south to find a better position to film it.







20 meg low res video

After viewing multiple touchdowns and quite possibly there being 2 separate ones, I then spotted a weak one to my east as the wall cloud totally felled apart ( you can just see it to the left of the road). This one last no more than a min.



north that last for about 30 seconds before roping out. Just as I figure it is over, another weak tornado becomes visible to my north and then slowly ropes out.



After that tornado dissipates, I headed southeast to see another funnel at 7:12pm to my east. I never seemed to touch down but last a good min before dying out.



After getting blocked in a road by a few trees that were down, I finally spotted some hail that I could measure. The largest I found at this site was lime sized or 52 mm/2 in.



I continued southward and spotted a ton of trees and fields shredded. I hike into them and found a bunch of baseball to tennis ball size hail and a few embedded into the wet ground (72mm or 2.75) This had probably melted for a good 20 mins so it was probably larger.



The storm seemed to cycle again and I had the chance to catch up with it outside of Listowel where a new wall cloud formed and a funnel developed. I quickly took a few pics and continued to head southeast.

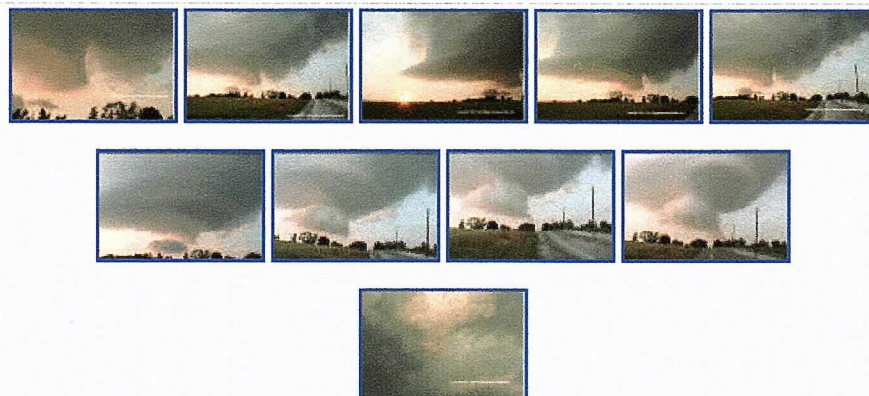


Getting about 8 kms to the southeast of Listowel, I noticed to areas of strong rotation forming. I pulled over to beginning filming and was amazed to see dual wall clouds forming at the same time. Watching this in awe, It turned into a copycat act as both wall cloud produced funnel clouds for about 15-20 secs before then died out.

AS they died out, some people pulled over and asked me if I had seen the funnel cloud to the east of Listowel about 8 mins ago. They finished tell me that it did touch down and hit a small shed or something and then only saw the funnel above it with no visible evidence at the surface.



Just when I figured this storm was all over, it seemed like it turned into an LP supercell during the end. It was awesome to see all the rotation in the upper levels and then the wall cloud formed underneath with what looked like a funnel. It never did touch down but just as the storm died it produced 3 midlevel funnel clouds that snake around for a good 3 mins before the whole thing finally died.



What a chase day in Ontario. Structure and motion I have only seen in Tornado Alley before now. Need to thank Kristy for doing constant nowcasting for almost 3 hours while I chased this.

All Images, graphics Etc are copyrighted Dave Patrick unless otherwise stated.

◆ 1997-2010 The Ontario Weather Page



Environment  
CanadaEnvironnement  
Canada[\[Français\]](#) [\[Back\]](#)**View Event****[Back To Search Results](#)**

Event type	Tornado (vetted)
Event start date	2007-7-8 UTC (exact)
Event start time	23:00:00 UTC (exact)
Event duration	00:05:00 (close)
Entered by	bonczam (2007-11-07 18:17:44)
Event version	latest
fcst region	GREY - BRUCE
meso region	SAUGEEN SHORES - KINCARDINE - SOUTHERN BRUCE COUNTY
Latitude/Longitude	44 ° 3' N 81 ° 7' W
Location	0 KM N of Mildmay
Hail	no
Hail size descriptor	N/A
Hail diameter	N/A
Hail depth	N/A
Wind	no
Gust speed	N/A
Wind direction	N/A
Wind intensity	N/A
Rain	no
Rain amount	N/A
Rain duration	N/A
Tornado	yes
Tornado intensity	F1 (measured)
Lightning	no
Lightning Intensity	N/A
Mesocyclone	no
Funnel Cloud	no
Waterspout	no
Narrative	Spotted tornado crossing his property. Implement shed was destroyed. The debris was carried up to 1.5 km. According to the damage survey the damage path stretched from northwest to southeast with a length of 300 to 350 m and maximum width of 40 m. More information is available at Outreach site under July 8 Mildmay event.
Confidence	confirmed
Warning Criteria	met or exceeded
Source	Public
MSC initiated report of event	N/A
Contact name	Matt Chauvin
Contact phone	519-367-3300
Contact email	N/A
Contact address	R.R. #3 Mildmay
Number of fatalities	N/A
Fatality comments	N/A
Number of injuries	N/A
Injury comments	N/A
Damage amount	N/A
Damage comments	N/A
Power outage	N/A

[Back To Search Results](#)

Note: Event details are highlighted in orange.

---

You've Logged On As user: [sillsd](#) (ONT)

Today is: [2010-04-19](#)

Account expiry date: [2014-12-31](#)

[Logoff](#)

---

[\[Graphics off\]](#) |

---

[Important Notices and Disclaimers](#)

Created : 2003-12-08

Modified : 2006-02-16

Reviewed : 2003-12-08

Url of this page : [http://performance.ec.gc.ca/eventdata/viewevent\\_e.php?b\\_templatePrint=true](http://performance.ec.gc.ca/eventdata/viewevent_e.php?b_templatePrint=true)

---

The Green Lane™,  
Environment Canada's World Wide Web Site.

**Canada**