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**Probable Tornado  
Jackson's Cove, Ontario  
August 2, 2006**

**Date- Local:** Wednesday, August 2<sup>nd</sup>, 2006  
**UTC:** Wednesday, August 2<sup>nd</sup>, 2006

**Time- Local:** 1815  
**UTC:** 2215

**Location:** Jackson's Cove (1 km NE)

**Region:** Grey - Bruce

**Classification:** Probable Tornado

**Category:** A

**Casualties:** None

**Track Length:** 1500 m

**Width:** 200 m

**Motion:** 239 degrees

**Damage Estimate:** None available

**F-Scale Rating:** F0

**Code:** TS

**Damage Survey:** Yes, area was visited by forecaster Mitch Meredith

**Spotter Reports:** None

**Other Documents:**

August 2<sup>nd</sup>, 2006 summary of events, paragraph discussing this event and conclusions on what occurred

Discussion between resident and Simon Eng along with Simon's conclusions and photos from resident

OSPC report detailing what Mitch Meredith observed upon visiting the area and concluding probable event

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## **Tornado F-Scale Assessment**

Brad L. Rousseau

Tornado Data Production Assistant, Environment Canada

June 2<sup>nd</sup>, 2010

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**Classification:** Probable Tornado

**Date:** Wednesday, August 2, 2006

**Location:** Jackson's Cove (1 km NE), Grey - Bruce Region

**Assessment:** F0

**F-Code:** TS

**Explanation of Assessment:** Estimated 100 or more trees (0.3 to 0.6 meter diameter maple, ash, walnut, beech and cedars) uprooted occurred in this area, with several dozen more having their tops snapped off

(2) Jackson's Cove (1 km NE):

Tornado (Probable) F0

1.5 km 100-200 m

6:15 p.m.

A damage track with an estimated 100 or more trees (0.3 to 0.6 meter diameter maple, ash, walnut, beech and cedars) uprooted occurred in this area, with several dozen more having their tops snapped off. The track is located between the base of the escarpment and a row of cottages along Georgian Drive. There was also scattered, minor wind damage in the area, but the main damage path thankfully by-passed cottages and homes. While it

### **Quick Note on Photos and E-mails**

Below are a few of the e-mail message exchanged between myself (Simon Eng, Forecast Assistant, Summer 2006) and Lynn Janssen (519-739-3099, 157 Georgian Road, RR #3, Lion's Head, N0H 1W0) who provided us with the initial tip on damage location and subsequently provided photos, contact info for her neighbors, etc.

The first set of photos labeled "tornado" were sent without damage locations or direction of view. The second set labeled "Storm Aug 2" are described in the e-mail immediately below and were followed up on during an interview on August 19<sup>th</sup>.

The damage track began behind the residence at 53 Georgian Drive, traveling roughly E for about half a kilometer, then turning NE and heading out into the bay (it appeared to follow the escarpment). The track of completely uprooted trees is apparently no wider than 75 yards and (as is apparent in the photos) show very distinct convergence.

To help provide a sense of scale, the dog in the photographs is a 75lb golden retriever. In photograph number 9 of the "Storm Aug 2" series, one tree (still alive, foliage is out of the picture) was snapped off, with the top part apparently lifted up, resting well above it's original position. In photograph number 5, we can clearly see three trees closest to the photographer. The one on the left is snapped near the base and is pointing roughly E, one on the right is uprooted and pointing roughly ENE and one in the center (we can only see the base) is thrown pointing almost S. Also note the clearing in the distance at the center of the photo, which was not there before the event.

**Appendix 1: E-mails**

**Wed 8/16/2006 2:30 PM**

**Hi Simon,**

**Here are the photos my friend took for us this afternoon.**



**1. Facing east at the beginning of the damage path.**



**2. Same as above**



**3. Same as above**



**4. Facing east 100 ft. further along the path**



**5. Facing east another 10 ft. further**



**6. Facing east another 20 ft. further**



**7. Facing north**



**8. Facing east - splintered tree**



**9. Tree top twisted? off and thrown up into neighbouring tree. The broken end is actually now higher than where it was originally.**

**At this point there appeared to be a 200 ft. gap where little damage had occurred.**



**10. Restart of uprooted trees**





**11. East facing path of damage and splintered tree**



**12. Same path with 5 very large uprooted trees. They didn't all fit in the camera viewfinder.**



**13. Splintered tree trunk**



**14. Twisted tree**

The destruction starts on the north side of Georgian Drive at approximately fire number 53, which is the Taylor residence. I believe you contacted them regarding their experience of the storm. The path continues eastward paralleling Georgian Drive for about 1/2 kilometre and then starts to veer around to the northeast. It continues for about another kilometre before disappearing into Georgian Bay. The secondary and much smaller path lies south of the larger path, between the larger path and Georgian Drive. We estimate it at about 50 ft. wide and 200 ft. long. Along both paths the vast majority of the trees fell pointing to the east and then to the northeast as the path veered around. It roughly followed the direction that the cliff face of the escarpment follows around Cape Dundas.

The email for Jim and Maureen Wallace is [james.wallace@sympatico.ca](mailto:james.wallace@sympatico.ca). They were here the evening of the storm and were very concerned for their safety. The other person who might be helpful is Paul Brubacher; he also described some interesting experiences from that evening. His email is [bruby@sympatico.ca](mailto:bruby@sympatico.ca).

I hope all of this will be helpful and I'll look forward to hearing from you.

Sincerely,  
Lynn Janssen

Tue 8/15/2006 9:59 AM

Hi Simon,

Thanks for the email. I'm sorry that EC won't be sending anyone up here to survey the scene. I agree that the trees are shallow rooted in loose cobblebeachstone, but they were very substantial trees nonetheless.

I really do not remember which way my friend was facing when the photos were taken. We will redo them and mark down that info as we go along.

As far as other contacts are concerned, I know that Jim and Maureen Wallace were here that evening. Their cottage phone is 519-793-3217. I don't have an email address for them. I'll see if I can get their home phone in Kitchener.

Doug Gammie's garage was damaged; his email is [gammfam@sympatico.ca](mailto:gammfam@sympatico.ca). The damage was minimal though.

It will take me a day or two to get the photos organized, but I will be in touch.

Does anyone from your office vacation on the Bruce Peninsula? Maybe they could combine some work and fun?? Is there no one in the Owen Sound, Wiarton, Southampton area who could survey the damage and give you an informed opinion? I'd love the chance to look at it with someone who knows more about such things!

**Yours truly,  
Lynn Janssen**

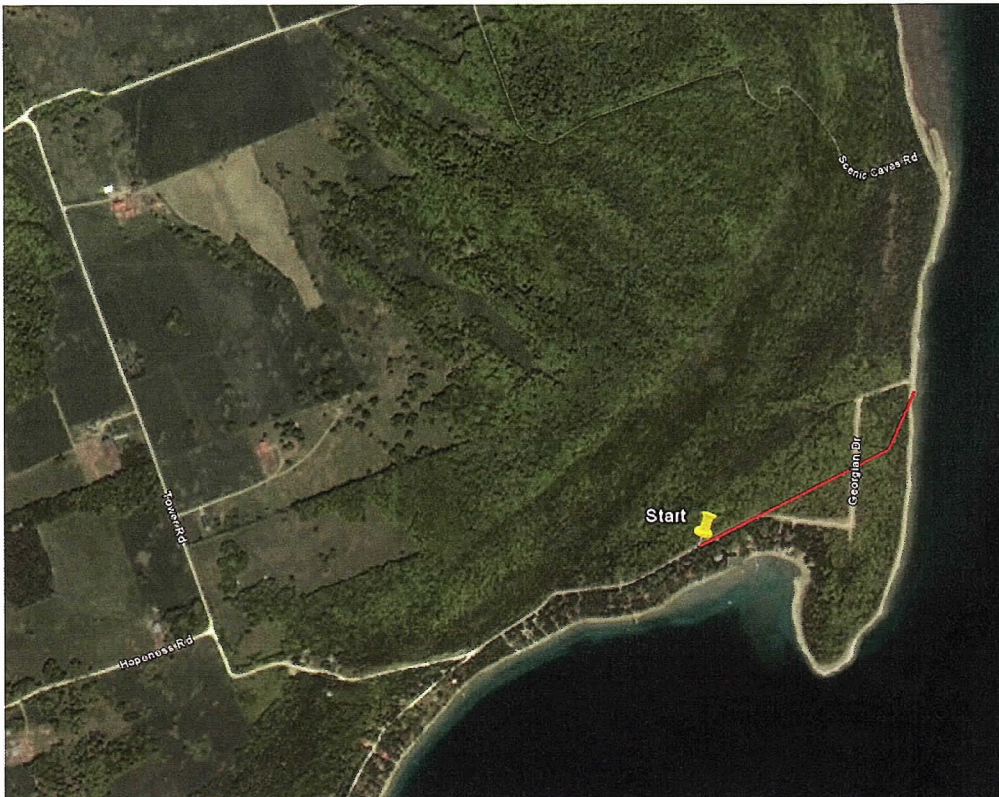
Jim Wallace was also kind enough to provide some imagery. The e-mail below corresponds with the first three photographs, labeled "Wallace" 12, 13 and 15.

From: james wallace [mailto:james.wallace@sympatico.ca]  
Sent: Tuesday, August 29, 2006 10:57 AM  
To: Eng, Simon [Ontario]  
Subject: Image Expert images from Album "August 25, 2006"

Hello Mr.Eng

Here are some photos of the tree damage at Jacksons Cove which I took on August 24th. The first image was on the north side of the road almost across the road from Gammies' property where some damage occurred to their garage from a spilt maple. The next image is taken to the west of the first image looking north on the north side of the road. The third image is also on the north side of the road looking north but west of the first two images. I have used an 8 foot white pole to help you gauge the size of some of the roots of the overturned trees. There are more pictures to follow if you wish. However my computer is very slow. Please let me know how these turn out and whether you wish to have the rest of them.

Regards,  
Jim Wallace



Rough estimate of damage path based off of residents description of locations and field notes



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Event type	Tornado (vetted)
Event start date	2006-8-2 UTC (exact)
Event start time	22:15:00 UTC (estimate)
Event duration	00:05:00 (rough)
Entered by	ruddicki (2006-12-22 04:24:09)
Event version	latest
fcst region	GREY - BRUCE
meso region	BRUCE PENINSULA - SAUBLE BEACH - TOBERMORY
Latitude/Longitude	44 ° 56' N 81 ° 7' W
Location	1 KM NE of Jackson's Cove
Hail	no
Hail size descriptor	N/A
Hail diameter	N/A
Hail depth	N/A
Wind	yes
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	F0 (measured)
Lightning	no
Lightning Intensity	N/A
Mesocyclone	no
Funnel Cloud	no
Waterspout	no
Narrative	<p>Probable tornado. Area visited by forecaster Mitch Meredith. Damage track with estimated 100 trees (2 to 3 feet diameter maple/ash/walnut/beech and a few cedars) down, and 10 percent of trees with tops snapped off. Damage area is about 100-200 meters in width and 1 to 1.5 km in length. Trees at center of path were completely uprooted and a few of the crowns from the snapped off trees were thrown some distance. Track begins (roughly) behind 53 Georgian Drive and continues roughly east for 1/2 kilometers, then turns slightly NE and continues on into Georgian Bay (window screen at 53 Georgian Dr blown in). One resident, James Wallace, had his canoe flipped and "filled" with water (is at 39 Georgian Dr). Some scattered tree damage in area around cottages on Georgian Dr, with tree impact damage to a garage and a lamp post. Power reported out between 6 and 6:30. Photos of damage provided by residents Lynn Janssen and Jim Wallace. Tour of damage site provided by Lynn Janssen. See also material on outreach ftp site in "Lion's Head" folder.</p>
Confidence	probable
Warning Criteria	met or exceeded
Source	Meteorologist
MSC initiated report of event	N/A
Contact name	Lynn Janssen, Mitch Meredith
Contact phone	519-739-3099
Contact email	N/A
Contact address	N/A
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	yes

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Note: Event details are highlighted in orange.

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The Green Lane™,  
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