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**Probable Tornado  
Sand Lake, Ontario  
July 21, 1994**

**Date- Local:** Thursday, July 21, 1994

**UTC:** Thursday, July 21, 1994

**Time- Local:** 1630

**UTC:** 2030

**Location:** Hwy 518, near Magnetawan River and Sand Lake

**Region:** Parry Sound-Muskoka

**Classification:** Probable Tornado

**Category:** H

**Casualties:** None

**Track Length:** None available

**Width:** None available

**Motion:** None available

**Damage Estimate:** None available

**F-Scale Rating:** F0

**Code:** SS

**Damage Survey:** None

**Spotter Reports:** Three

**Other Documents:**

None

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*sjs*

Meteorological Service of Canada  
4905 Dufferin Street, ARMP  
Downsview, Ontario M3H 5T4  
**CANADA**

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## **Tornado F-Scale Assessment**

Sarah J. Sriver

Tornado Data Production Assistant, Environment Canada

October 7<sup>th</sup>, 2003

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**Classification:** Probable Tornado

**Date:** Thursday, July 21<sup>st</sup>, 1994

**Location:** Sand Lake, Parry Sound-Muskoka Region

**Assessment:** F0

**Explanation of Assessment:** Tornado "lifted garage roof and then moved building off of it's foundation." This type of damage (outbuilding, garage not attached to home) constitutes only F0.

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SJS

Meteorological Service of Canada  
4905 Dufferin Street, ARMP  
Downsview, Ontario M3H 5T4  
**CANADA**

Spotter Reports, July 21, 1994

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 17-00 **EVENT DAY:** 21.0 **MONTH:** 7.0 **YEAR:** 1994.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Port Elgin to Kincardine **ASOCTD PUBLIC RGN:** Grey-Bruce **DETAILED DESCRIPTION:** "trees and power lines downed" **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** UKN **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** UKN **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** NO **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 19-30 **EVENT DAY:** 21.0 **MONTH:** 7.0 **YEAR:** 1994.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Midland Bay **ASOCTD PUBLIC RGN:** Barrie-Huron **DETAILED DESCRIPTION:** "3 10 to 12 foot sailing boats flipped over" **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** UKN **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** UKN **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** NO **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 20-00 **EVENT DAY:** 21.0 **MONTH:** 7.0 **YEAR:** 1994.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Johnston Motel, Prescott **ASOCTD PUBLIC RGN:** Kingston-Brockville **DETAILED DESCRIPTION:** "trees downed, winds to 140 km/h, hail of unknown size" **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** UKN **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** UKN **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** POSSIBLE **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** ? **MM HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind/Hail Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 20-00 **EVENT DAY:** 21.0 **MONTH:** 7.0 **YEAR:** 1994.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** Big Chute **ASOCTD PUBLIC RGN:** Parry Sound-Muskoka **DETAILED DESCRIPTION:** "trees downed, one 70 year old oak 2.5 feet in diameter downed" **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN EFFECT ?:** UKN **WATCH LEAD TIME (HR): (MIN):** **WARNING IN EFFECT ?:** UKN **WARNING LEAD TIME (HR): (MIN):** **TORNADO:** POSSIBLE **WINDSPEED:** **RAINFALL:** MM **RAIN DURATION:** **HAIL DIAMETER:** MM **HAIL DESCRIPTION:** **EVENT DESCRIPTION:** Wind Mesoscale ? : NO Synoptic ? : YES Big Event ? : NO Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Mark Payne Vetted date:

**CLASSIFICATION:** Severe Thunderstorm **SOURCE/WATCHER ID:** **EVENT TIME (UTC):** 20-30 **EVENT DAY:** 21.0 **MONTH:** 7.0 **YEAR:** 1994.0 **EVENT DURATION (HR):** 0.0 **(MIN):** 0.0 **DAY OF THE WEEK:** **EVENT LOCALE:** South Tea Lake **ASOCTD PUBLIC RGN:** North Bay-Nipissing **DETAILED DESCRIPTION:** "50 foot wide damage swath, trees sucked up, tornado witnessed" **INITIAL ASSESSMENT:** YES **SPL WX STATEMENT IN EFFECT ?:** UKN **STATEMENT LEAD TIME (HR): (MIN):** **WATCH IN**



EFFECT ? : UKN WATCH LEAD TIME (HR): (MIN): WARNING IN EFFECT ? : UKN WARNING LEAD TIME (HR): (MIN): TORNADO: YES F? WINDSPEED: RAINFALL: MM RAIN DURATION: HAIL DIAMETER: MM HAIL DESCRIPTION: EVENT DESCRIPTION: Tornado Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

CLASSIFICATION: Severe Thunderstorm SOURCE/WATCHER ID: EVENT TIME (UTC): 21-00 EVENT DAY: 21.0 MONTH: 7.0 YEAR: 1994.0 EVENT DURATION (HR): 0.0 (MIN): 0.0 DAY OF THE WEEK: EVENT LOCALE: Highway 518 near Magnetawan River and Sand Lake ASOCTD PUBLIC RGN: Parry Sound-Muskoka DETAILED DESCRIPTION: "accurate description of tornado. lifted garage roof and moved building off its foundation" INITIAL ASSESSMENT: YES SPL WX STATEMENT IN EFFECT ? : UKN STATEMENT LEAD TIME (HR): (MIN): WATCH IN EFFECT ? : UKN WATCH LEAD TIME (HR): (MIN): WARNING IN EFFECT ? : UKN WARNING LEAD TIME (HR): (MIN): TORNADO: YES F? WINDSPEED: RAINFALL: MM RAIN DURATION: HAIL DIAMETER: MM HAIL DESCRIPTION: EVENT DESCRIPTION: Tornado Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

CLASSIFICATION: Severe Thunderstorm SOURCE/WATCHER ID: EVENT TIME (UTC): 21-00 EVENT DAY: 21.0 MONTH: 7.0 YEAR: 1994.0 EVENT DURATION (HR): 0.0 (MIN): 0.0 DAY OF THE WEEK: EVENT LOCALE: Region wide damage in Algonquin Park ASOCTD PUBLIC RGN: Algonquin DETAILED DESCRIPTION: "trees downed, power outages, unofficial report of a "twister" in Algonquin" INITIAL ASSESSMENT: YES SPL WX STATEMENT IN EFFECT ? : UKN STATEMENT LEAD TIME (HR): (MIN): WATCH IN EFFECT ? : UKN WATCH LEAD TIME (HR): (MIN): WARNING IN EFFECT ? : UKN WARNING LEAD TIME (HR): (MIN): TORNADO: POSSIBLE WINDSPEED: RAINFALL: MM RAIN DURATION: HAIL DIAMETER: MM HAIL DESCRIPTION: EVENT DESCRIPTION: Tornado Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

CLASSIFICATION: Severe Thunderstorm SOURCE/WATCHER ID: EVENT TIME (UTC): 21-10 EVENT DAY: 21.0 MONTH: 7.0 YEAR: 1994.0 EVENT DURATION (HR): 0.0 (MIN): 0.0 DAY OF THE WEEK: EVENT LOCALE: Hwy-s 169 and 118 near Glen Orchard ASOCTD PUBLIC RGN: Parry Sound-Muskoka DETAILED DESCRIPTION: "trees downed" INITIAL ASSESSMENT: YES SPL WX STATEMENT IN EFFECT ? : UKN STATEMENT LEAD TIME (HR): (MIN): WATCH IN EFFECT ? : UKN WATCH LEAD TIME (HR): (MIN): WARNING IN EFFECT ? : UKN WARNING LEAD TIME (HR): (MIN): TORNADO: NO WINDSPEED: RAINFALL: MM RAIN DURATION: HAIL DIAMETER: MM HAIL DESCRIPTION: EVENT DESCRIPTION: Wind Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date:

CLASSIFICATION: Severe Thunderstorm SOURCE/WATCHER ID: EVENT TIME (UTC): 22-00 EVENT DAY: 21.0 MONTH: 7.0 YEAR: 1994.0 EVENT DURATION (HR): 0.0 (MIN): 0.0 DAY OF THE WEEK: EVENT LOCALE: Renfrew ASOCTD PUBLIC RGN: Renfrew DETAILED DESCRIPTION: "trees downed, power outages" INITIAL ASSESSMENT: YES SPL WX STATEMENT IN EFFECT ? : UKN STATEMENT LEAD TIME (HR): (MIN): WATCH IN EFFECT ? : UKN WATCH LEAD TIME (HR): (MIN): WARNING IN EFFECT ? : UKN WARNING LEAD TIME (HR): (MIN): TORNADO: NO WINDSPEED: RAINFALL: MM RAIN DURATION: HAIL DIAMETER: MM HAIL DESCRIPTION: EVENT DESCRIPTION: Wind Mesoscale ? : Synoptic ? : Big Event ? : Statement Est Hit/Miss: Watch Est Hit/Miss: Warning Est Hit/Miss: Separate Event (30km/30min): YES Vetted by: Vetted date: