UPDATED

Confirmed Tornado
Bayfield - Fordwich, Ontario
September 26, 1970

Date- Local: Monday, September 26th, 1970
UTC: Monday, September 26th, 1970
Time- Local: 1530
UTC: 1930
Location: S of Bayfield to Fordwich
Region: Huron - Perth
Classification: Confirmed Tornado
Category: -999
Casualties: 12002 Animals dead
Track Length: 67540 m
Width: None available
Motion: 235 degrees
Damage Estimate: None available
F-Scale Rating: F2
Code: AH
Damage Survey: None
Spotter Reports: None
Other Documents:
Newspaper articles, one of which provides a thorough description of the event (Listowel Banner)
SA report outlining damages
Map of Tornado track
Newark summary sheet

Tornado F-Scale Re-Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
January 25th, 2011

Classification: Confirmed Tornado
Date: Monday, September 26th, 1970
Location: S of Bayfield to Fordwich, Huron – Perth Region

Original Assessment: F1
Re-Assessment: F2
F-Code: AH
Explanation of Assessment: Roofs removed from anchored cottages and top 35 ft of farm silo destroyed. Damage ranks in F2 category in Wind Damage Rating table.

SJS

4 PHOTOS OF DAMAGE FROM LISTOWEL BANNER.

B

FORDWICH

F = 1

ONT

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME 26.9.1970 1430EST.

2. LOCATION OR PATH (attach map) SOUTH OF BAYFIELD TO FORDWICH

0697012

3. PATH LENGTH ☐ NOT KNOWN ☐ <1 mi; ☐ 1-4mi; ☐ 5-10mi; ☑ 43 11-50mi; ☐ LENGTH IF>50mi

4. PATH WIDTH NOT KNOWN 5. TORNADO PART OF SQUALL LINE? ☑ YES; ☐ NO; ☐ UNKNOWN:

6. ANY UNUSUAL COLORATION? ☐ YES; ☐ NO; ☑ UNKNOWN

7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☑ UNKNOWN

8. IF ANSWER TO 6 OR 7 YES, ELABORATE;

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) HEAVY RAIN

10. TOTAL DAMAGE ESTIMATE $UNKNOWN 11. TOTAL DEATHS 2 COWS 12,000 CHICKS

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

PALMERSTON OBSERVER 1.10.1970
BEACON HERALD, STRATFORD 28.9.1970
BRUSSELS POST 1.10.1970
CLINTON NEWS-RECORD 1.10.1970
LISTOWEL BANNER OCT 1ST 1970
Telephone Interviews, Dec 5, 1980 by m. J Newark

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

(b) A SWATH OF DAMAGE FROM LAKE HURON TO FORDWICH. BUILDINGS UNROOFED, TREES UPROOTED AND TWISTED OFF, POWER LINES DOWN, FARM MACHINERY OVERTURNED OR BLOWN ABOUT, FIELDS FLATTENED. ENTIRE CONTENTS OF COTTAGE NEAR BAYFIELD BLOWN OUT. TOP 35 FEET OF A SLAB SILO NEAR CLINTON BLOWN DOWN WHILE ROOF OF NEARBY CHICKEN BARN TAKEN OFF AND ABOUT 1000 BABY CHICKS WERE SUCKED OUT AND AWAY. (REMAINDER OF CHICKS DIED FROM DROWNING AND COLD)

NEAR BRUSSELS 3 MEN WORKING IN A GARAGE WHEN THE STEEL DOOR APPEARED TO EXPLODE OUTWARDS. DEBRIS FROM THE GARAGE INCLUDING LARGE CHUNKS OF HEAVY STEEL ROOFING AND SIDING WAS STREWN ACROSS FIELDS FOR A QUARTER MILE

WORKSHEET

IDTO 0697012

1500 C

(1) ORIGIN x 1744250.0 (5) Standard Error S_x

y 4817600

1000 C

(2) LIFT-OFF x_1 1749780.0 (6) Standard Error S_y

y_1 4858000

(3) $(x_1 - x)$ = 55300

(4) $(y - y_1)$ = 40400

(7) DAMAGE LENGTH

$$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$$

(8) $\alpha = \tan^{-1} \dfrac{|y - y_1|}{|x - x_1|}$

(3)+(4) [→r,θ] = 68485 m

[x↔y] = 36°

(9) Standard Error $S_L = (S_x^2 + S_y^2)^{1/2}$

(5)+(6) [→r,θ] = 18.03 m C

(10) $\beta = \dfrac{\tan^{-1} S_L}{L}$

(7)+(9) [→r,θ]

[x↔y] = 2°

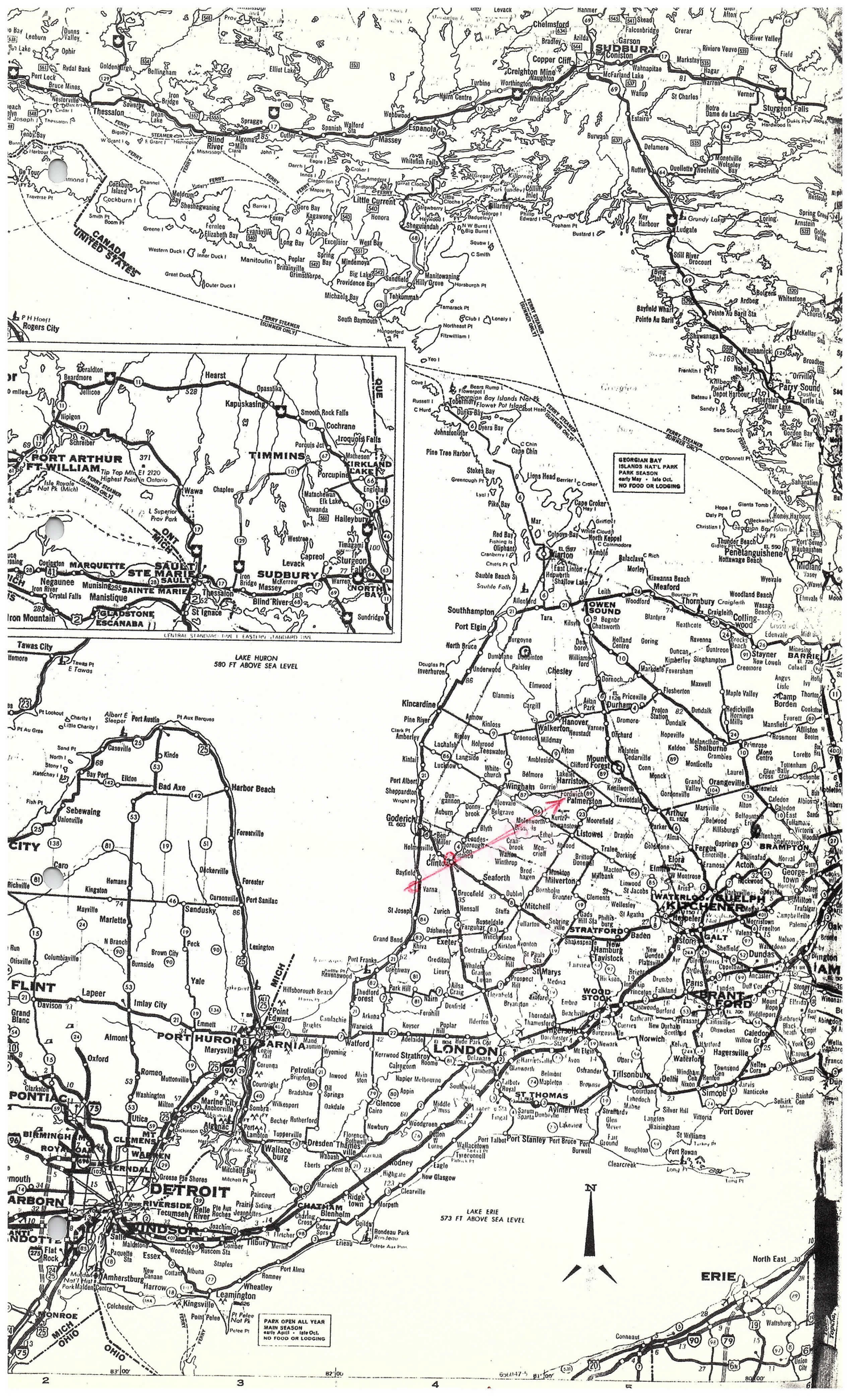
NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 234°


CANADA
UNITED STATES
LAKE HURON
580 FT ABOVE SEA LEVEL
LAKE ERIE
573 FT ABOVE SEA LEVEL
CENTRAL STANDARD TIME | EASTERN STANDARD TIME
FERRY STEAMER (SUMMER ONLY)
GEORGIAN BAY ISLANDS NAT'L PARK
PARK SEASON
early May - late Oct.
NO FOOD OR LODGING
PARK OPEN ALL YEAR
MAIN SEASON
early April - late Oct.
NO FOOD OR LODGING
SUDBURY
TIMMINS
PORT ARTHUR
FT. WILLIAM
SAULT STE MARIE
SAINTE MARIE
MARQUETTE
GLADSTONE
ESCANABA
NORTH BAY
STURGEON FALLS
PARRY SOUND
PENETANGUISHENE
COLLINGWOOD
BARRIE
ORILLIA
KAWARTHA LAKES
PETERBOROUGH
LINDSAY
COBOURG
PORT HOPE
BELLEVILLE
TRENTON
KINGSTON
BROCKVILLE
OWEN SOUND
WALKERTON
HANOVER
DURHAM
MEAFORD
THORNBURY
WIARTON
SOUTHAMPTON
PORT ELGIN
GODERICH
CLINTON
SEAFORTH
EXETER
STRATFORD
LISTOWEL
MILVERTON
MITCHELL
WINGHAM
PALMERSTON
HARRISTON
ARTHUR
ORANGEVILLE
SHELBURNE
MOUNT FOREST
FERGUS
ELORA
ELMIRA
WATERLOO
KITCHENER
GUELPH
GALT
PRESTON
HESPELER
NEW HAMBURG
TAVISTOCK
BADEN
ST. MARYS
WOODSTOCK
INGERSOLL
TILLSONBURG
NORWICH
BRANTFORD
PARIS
DUNDAS
HAMILTON
BRAMPTON
GEORGETOWN
ACTON
MILTON
OAKVILLE
TRAFALGAR
LONDON
ST. THOMAS
AYLMER
PORT STANLEY
PORT BURWELL
PORT ROWAN
PORT DOVER
SIMCOE
DELHI
WATERFORD
HAGERSVILLE
CALEDONIA
DUNNVILLE
PORT COLBORNE
WELLAND
FORT ERIE
NIAGARA FALLS
ST. CATHARINES
GRIMSBY
BEAMSVILLE
HAMILTON
DUNDAS
ANCASTER
BRANTFORD
PARIS
CAMBRIDGE
GALT
KITCHENER
WATERLOO
GUELPH
ELORA
FERGUS
ORANGEVILLE
SHELBURNE
MOUNT FOREST
WINGHAM
PALMERSTON
HARRISTON
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GODERICH
CLINTON
SEAFORTH
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STRATFORD
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MILVERTON
MITCHELL
ST. MARYS
WOODSTOCK
INGERSOLL
TILLSONBURG
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DUNNVILLE
PORT COLBORNE
WELLAND
FORT ERIE
NIAGARA FALLS
ST. CATHARINES
GRIMSBY
BEAMSVILLE
HAMILTON
DETROIT
WINDSOR
PORT HURON
SARNIA
FLINT
PONTIAC
MONROE
ERIE
N
2
3
4
5
6

Sept 26/70

OG phoned at 1025 pm to report house trailer destroyed in TS at Blythesmood (3 miles N Leamington on highway #77) = 4.30 pm

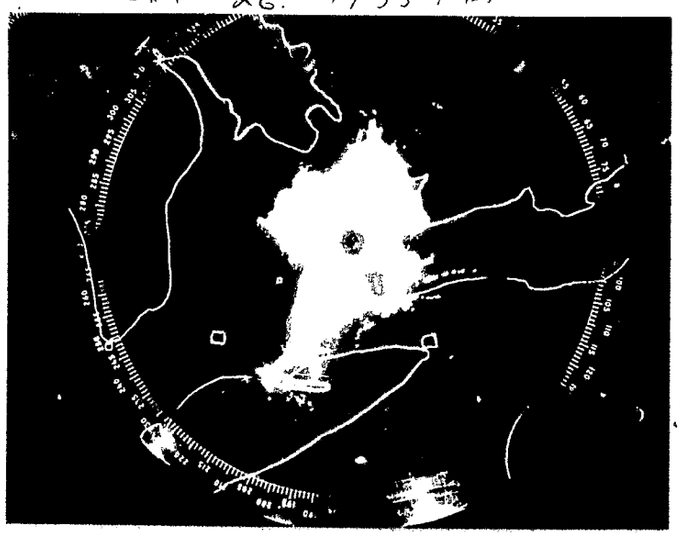
SA 170 262035
GD S 262035 4 @A23 @70@15+ 3614 CF2SC7AC1 PUBLIC REPORT @025 ROOFS???ON
OFF TWO BARNS NEAR CLINTON

JUNE

JUNE

NA
NW YZ 262043
WEATHER WARNING FOR SEVERE THUNDERSTORMS THIS EVENING IN THE LAKE
HURON GEORGIAN BAY LAKE ERIE NIAGARA LAKE ONTARIO

SEP 26. 1735 EDT



MAX TOPS 40,000'

SEPT 26 1750 EDT



MAX TOPS 35,000

SEPT 26 1830 EDT

