(1) B (2) B 5 PHOTOS. TORNADO DAMAGE. (FROM LISTOWEL BANNER. JUNE 10/71)

REVISED JULY 16 1980 RE

TORNADO PROJECT SUMMARY SHEET

(1) F=1 (2) F=0 ONT

1. DATE AND TIME JUNE 7.6.1971 (1)(2) 1820 EDT

2. LOCATION OR PATH (attach map) TOWNSHIPS. (1) FROM WNW ALONG 10TH CON GREY AND ELMA. VICINITY OF ATWOOD. 0697102
(2) FROM WNW ALONG 17TH CON. ELMA NEAR MONKTON. 0697103

3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; (2) ☒ 1-4mi; (1) ☒ 5-10mi; ☐ 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 $NOT KNOWN 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

BEACON HERALD, STRATFORD 8.6.1971
LISTOWEL BANNER JUNE 10 1971

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

(a) None, but called a tornado.

(b) Rural area hit with barns completely demolished and their remains scattered across fields. A piece of lumber from the barn of Kenneth Love was driven through the side of his house into the main bedroom. Trees showed evidence that the funnel was aloft at times" a bush along Boyle Drain east of Henry had most of the tree tops wiped off while elsewhere trees were torn up by the roots.

WORKSHEET

IDTO 0697102

(1) ORIGIN x 1749120 (5) Standard Error S_x 100 C.

y 4837150

(2) LIFT-OFF x_1 1750250 (6) Standard Error S_y C500.

y_1 4830800

(3) $(x_1 - x)$ = 1130

(4) $(y - y_1)$ = 6350

(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) $\boxed{\rightarrow r,\theta}$ = 12962 m

$\boxed{x \leftrightarrow y}$ = 29°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 510 m C

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

(7)+(9) $\boxed{\rightarrow r,\theta}$

$\boxed{x \leftrightarrow y}$ = 2°

NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 299°

WORKSHEET

IDTO 0697103

(1) ORIGIN x 1749280.00
y 4827100

(2) LIFT-OFF x_1 1749450.00
y_1 4826100

(3) $(x_1 - x)$ = 1700

(4) $(y - y_1)$ = 1000

(5) Standard Error S_x C100

(6) Standard Error S_y C100

(7) DAMAGE LENGTH

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

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 1972 m

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

$\boxed{x \leftrightarrow y}$ = 30°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 141 m C

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

(7)+(9) $\boxed{\rightarrow r,\theta}$

$\boxed{x \leftrightarrow y}$ = 4°

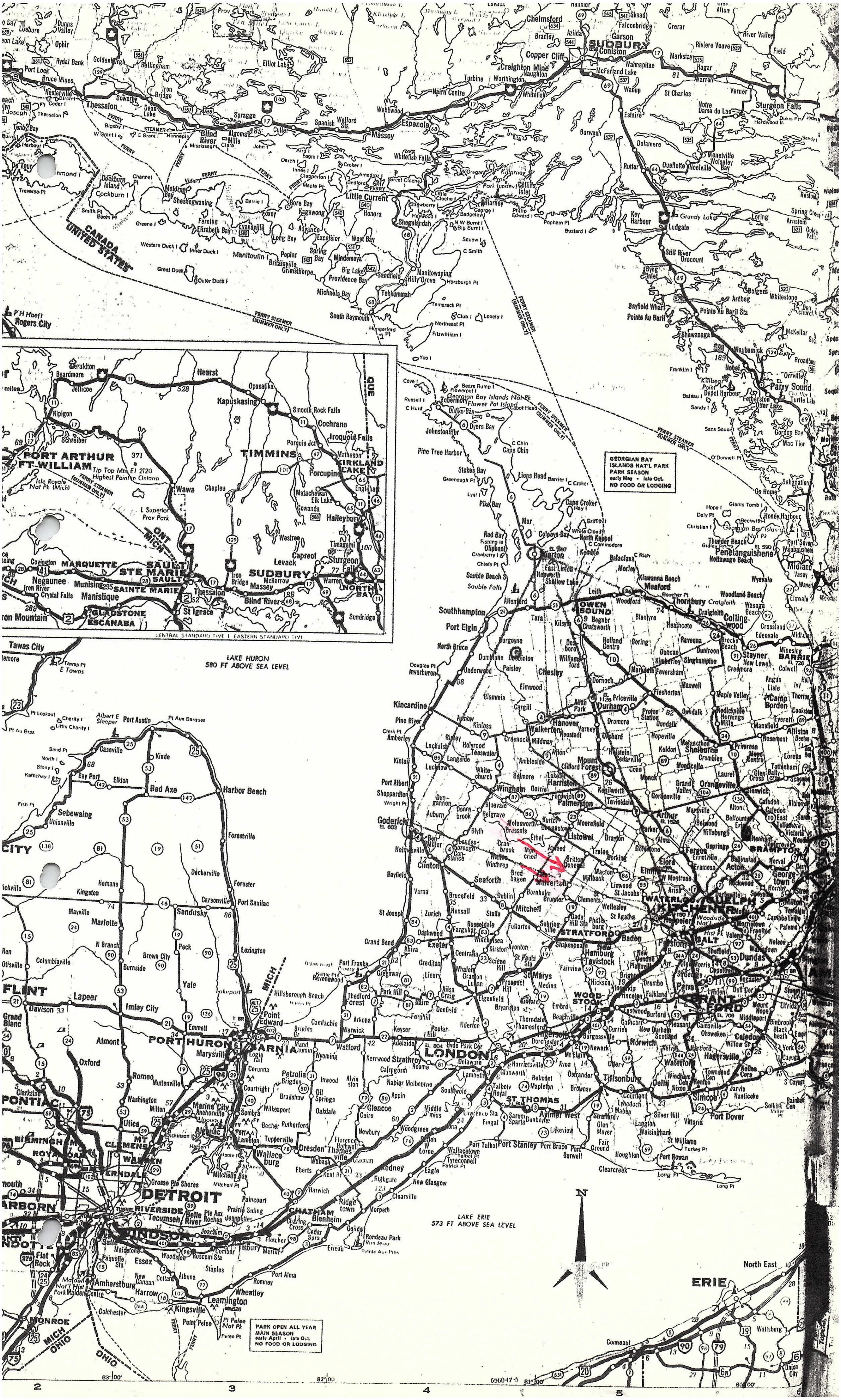
NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 300°


SUDBURY
Chelmsford
Copper Cliff
Creighton Mine
Coniston
Sturgeon Falls
Espanola
Massey
Blind River
Thessalon
Little Current
Gore Bay
Manitoulin I
Killarney
Parry Sound
CANADA
UNITED STATES
FERRY STEAMER (SUMMER ONLY)
PORT ARTHUR
FT WILLIAM
TIMMINS
KIRKLAND LAKE
Kapuskasing
Hearst
Geraldton
Wawa
Chapleau
Cochrane
Haileybury
NORTH BAY
SAULT STE MARIE
MARQUETTE
GLADSTONE
ESCANABA
Tip Top Mtn El 2120 Highest Point in Ontario
CENTRAL STANDARD TIME | EASTERN STANDARD TIME
LAKE HURON
580 FT ABOVE SEA LEVEL
GEORGIAN BAY ISLANDS NAT'L PARK
PARK SEASON
early May - late Oct.
NO FOOD OR LODGING
Tobermory
Wiarton
OWEN SOUND
Collingwood
Midland
Barrie
Southhampton
Port Elgin
Kincardine
Walkerton
Hanover
Durham
Wingham
Goderich
Listowel
Clinton
Seaforth
Mitchell
Milverton
STRATFORD
KITCHENER
WATERLOO
GUELPH
GALT
BRANTFORD
WOODSTOCK
LONDON
ST THOMAS
SARNIA
PORT HURON
DETROIT
WINDSOR
CHATHAM
Leamington
FLINT
PONTIAC
Bad Axe
Harbor Beach
Sandusky
LAKE ERIE
573 FT ABOVE SEA LEVEL
ERIE
PARK OPEN ALL YEAR
MAIN SEASON
early April - late Oct.
NO FOOD OR LODGING
N
2
3
4
5
83°00'
82°00'
81°00'
80°00'

THE LISTOWEL BANNER,THURSDAY JUNE 10TH.1971.

STORM DATE.4:15P.M.,MON.JUNE 7TH.1971.

Hydro crews worked throughout Monday night well into Tuesday to restore power and repair lines tangled and broken as a result of the severe storm which hit this area shortly after 6p.m.Although property damage was extensive in some districts,no personal injury was reported.

According to ROY GALWAY,of the local office of Ontario Hydro,ELMA TOWNSHIP was the hardest hit,with sections of MORNINGTON,LOGAN and WALLACE TOWNSHIPS also taking a beating.Numerous telephone calls reporting damage were received throughout Monday night at the Hydro office.

Weather reports gave wind velocities of up to 62m.p.h.,but many people,especially those living in areas of ELMA and GREY TOWNSHIPS,believe this to be a conservative estimate since demolished barns and uprooted trees in the direct path of the storm indicated that perhaps a tornado struck the district.

Worst hit in the ELMA,GREY area,were the properties of ELSTON SPEIRAN,KENNETH LOVE and HARVEY GODBOLT,all located on the 10TH.CON.WEST of highway 23.

MR.SPEIRAN,son of WILLIAM SPEIRAN of town,estimates his loss at $50,000.A large frame barn,built in 1895 by Elston's grandfather,Hartwell Speiran,was completely demolished as was a small shed.In the path of the flying debris,the SPEIRAN home had all the windows on the north side broken, resulting in some water damage.

A pole rafter from the barn ended up lodged in a tree 25 feet above the ground and a pointed board was driven like a spear into the kitchen eave.Straw was driven into the siding of the house;15 feet of cement slabbing was torn off a silo and a limb from a tree fell on the SPEIRAN truck, damaging its hood.

Kenneth LOVE'S 2-year-old barn was damaged and his modern home of the same age was extensively damage,losing half of its roof and receiving considerable water damage.Metal sheeting from the barn crashed into the house,felling an entrance way.A piece of lumber from the barn was driven through the side of the house into the main bedroom.A small number of pigs, calves and a few hens survived the storm.

MRS.LOVE who had her grandson Kenneth Foster,2½,with her,said she was terrified when the wind started and went to the basement.MR.SPEIRAN said he took his family to the basement when he saw the barn roof move up and down.

Out at the farm of HARVEY GODBOLT,on the 10TH.CON.,just inside the GREY boundary,winds demolished a shed,tore off the barn roof,damaged a metal,glass lined silo,drove metal sheeting and other debris into the vinyl siding of a new room on the house,damaged the farm truck,and considerably damaged the roof of the house,knocking down the chimney and television aerial.

All along the 10TH.CON. damage was heavy.A small bush looked as though it had been shelled and MR.GALWAY noted that a three phase power line,west of NEWRY,was completely ripped off.

Other properties damaged along the line were:a farm shed demolished on the farm of H.JACKSON;extensive damage to the home of GLEN BUCHANAN & SONS;a roof off a shed at T.W.DEWAR'S farm;extensive damage to trees and a car badly damaged at DAVID DEWAR'S property;a line of 50-foot high evergreens on the property of ALVIN SHIELL were bowled over like ten pins with one resting on the roof of the house;WILLIAM LONG'S poultry barn had its end blown out;the roof is off part of JACK SANDER'S barn,ALVIN MATHESON'S barn and the barn of WILLIAM NICHOL & SON.

ATWOOD DAMAGE.

In the village of ATWOOD high winds damaged dozens of trees with ELLEN STREET being the hardest hit.There,abig maple tree split,coming down on the property of JOHN VAN SICKLE,narrowly missing his car.The top of a large spruce tree on the VAN SICKLE property toppled on the kitchen roof of the ERNEST ROGER home.MRS.ROY HAMILTON'S house lost its chimney,and a tool shed in the area was carried 40 feet by the wind.

Out in the MONKTON area,the barn on the farm of ADAM WEIDERMAN, located on the 17TH.CON.,was demolished,as was a large metal-sided driving shed on the farm of JOHNSAVAGE to the east.

On the farm of RUSSEL PESTILL a partially filled 250-gallon gas tank was blown 10 feet in the air before landing on the top of a children's playhouse which was wrecked.

West of the highway,on the 17TH.CON.,there was damage to the WALLACE BAILLIE property and MR.and MRS.MILTON OPPENHAUSER had their verandah demolished.A top was blown off the silo on the farm of ELWOOD SEILI,just west of MONKTON.

CONCESSION of GREY was demolished during the big storm Monday. The ~~xixx~~ metal silo suffered at least $2,000 damage.(Banner Photo)

2. The large barn on the farm of WILLIAM NICHOL & SON, on the 10TH. CONCESSION of ELMA, suffered extensive damage to its roof Monday evening, but insurance coverage will defray the expense.(Banner Photo)

3. The barnyard of the ELSTON SPEIRAN farm on the 10TH.CONCESSION of GREY TOWNSHIP was a shambles of broken timber, boards and metal as the aftermath of the storm which struck at 4:15 Monday evening. The large barn was completely destroyed and the nearby farm home received extensive damage.

4. The large barn on the property of ELSTON SPIERAN on the 10TH. CONCESSION of GREY was completely demolished in the big storm Monday evening.Fifteen feet of cement slabs were blown off the top of the silo.(Banner Photo)

5. The metal-clad barn on the property of KEN.LOVE on the 10TH. CONCESSION of ELMA was completely destroyed Monday evening.in the severe storm.A pick-up truck stored in the barn suffered heavy damage.

Atwood June 7 1971