UPD976-D

Confirmed Tornado
Tara – Shallow Lake, Ontario
August 7, 1979

Date- Local: Tuesday, August 7th, 1979
UTC: Tuesday, August 7th, 1979
Time- Local: 1100
UTC: 1500
Location: W of Tara – Shallow Lake
Region: Grey - Bruce
Classification: Confirmed Tornado
Category: -999
Casualties: None
Track Length: 18584 m
Width: None available
Motion: 210 degrees
Damage Estimate: None available
F-Scale Rating: F1
Code: BS
Damage Survey: None
Spotter Reports: None
Other Documents:
Phone interview notes from individuals who sustained damage
Newspaper articles
Tornado track map
Newark summary sheet

Tornado F-Scale Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
January 26th, 2011

Classification: Confirmed Tornado
Date: Tuesday, August 7th, 1979
Location: W of Tara – Shallow Lake, Grey - Bruce Region

Assessment: **F1** (was F0)
F-Code: BS
Explanation of Assessment: Barn roofs removed, a storage shed belonging to the MTO was demolished and a swath of trees was blown down. Concrete block silo was "twisted" off its foundation and fell from E to W and two barn wagons were lifted and thrown 50 ft. Metal covered frame airplane hangar had the roof removed and the walls were blown outwards.

SJS

(1) A
(2) B

TORNADO PROJECT SUMMARY SHEET

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

ONT

1. DATE AND TIME TUE AUG 7, 1979 APPROX 10-1030 EST

2. LOCATION OR PATH (attach map)
(1) SHALLOW LAKE TO WEST OF TARA 0697918
(2) CLAVERING TO EAST OF SAUBLE BEACH 0697919

3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ☐ 1-4mi; ☐ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF>50
(2) 8.5 Km (1) 18 Km

4. PATH WIDTH u 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.)

10. TOTAL DAMAGE ESTIMATE $ u 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

THE SUN TIMES, OWEN SOUND, AUG 7, 8, 1979
TELEPHONE INTERVIEW BY M.J. Newark, Oct 28, 1980

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

1(a) Mrs Florence Dickie's son saw a spiral shape cloud

2(a) nothing seen.

~~1(b)~~ 1(b) & 2(b) see attached.

Raining very hard.

- 11-12% two people in the yard but they
- were inside. storm travelling west to east.
- swath of trees.
- from 17k to 19k conc annabel hp.

⇔ On 19k conc. frame home under construction. blew down.

MTC
John Salvatore.
1450 7th ave E Box 520
Owen Sound, Ont
N4K 5R1. (519) 376-7350.

SHALLOW LAKE — TARA

WORKSHEET

IDTO 0697918

(1) ORIGIN x 1749265

y 4940250

(5) Standard Error S_x

C 200

(2) LIFT-OFF x_1 1748475

y_1 4923600

(6) Standard Error S_y

C 200

(3) $(x_1 - x)$ = 7900

(4) $(y - y_1)$ = 16650

(7) DAMAGE LENGTH

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

(3)+(4) [→ r, θ] = 18429

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

[x ↔ Y] = 64.6°

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

(5)+(6) [→ r, θ] = 282 m C.

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

(7)+(9) [→ r, θ]

[x ↔ Y] = 0.9°

NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 025°

CLAVERING TO SAUBLE BEACH

WORKSHEET

IDTO 0697919

ℓ 2000
w 200

(1) ORIGIN x 17.489100
y 4946900

(5) Standard Error S_x
R 182

R 182

(2) LIFT-OFF x_1 17482250
y_1 4941850

(6) Standard Error S_y
ℓ 2000
w 200

(3) $(x_1 - x)$ = 6850

(4) $(y - y_1)$ = 5050

(7) DAMAGE LENGTH

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

(3)+(4) [→r,θ] = 8510

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

[x↔Y] = 36°

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

(5)+(6) [→r,θ] = 257 R

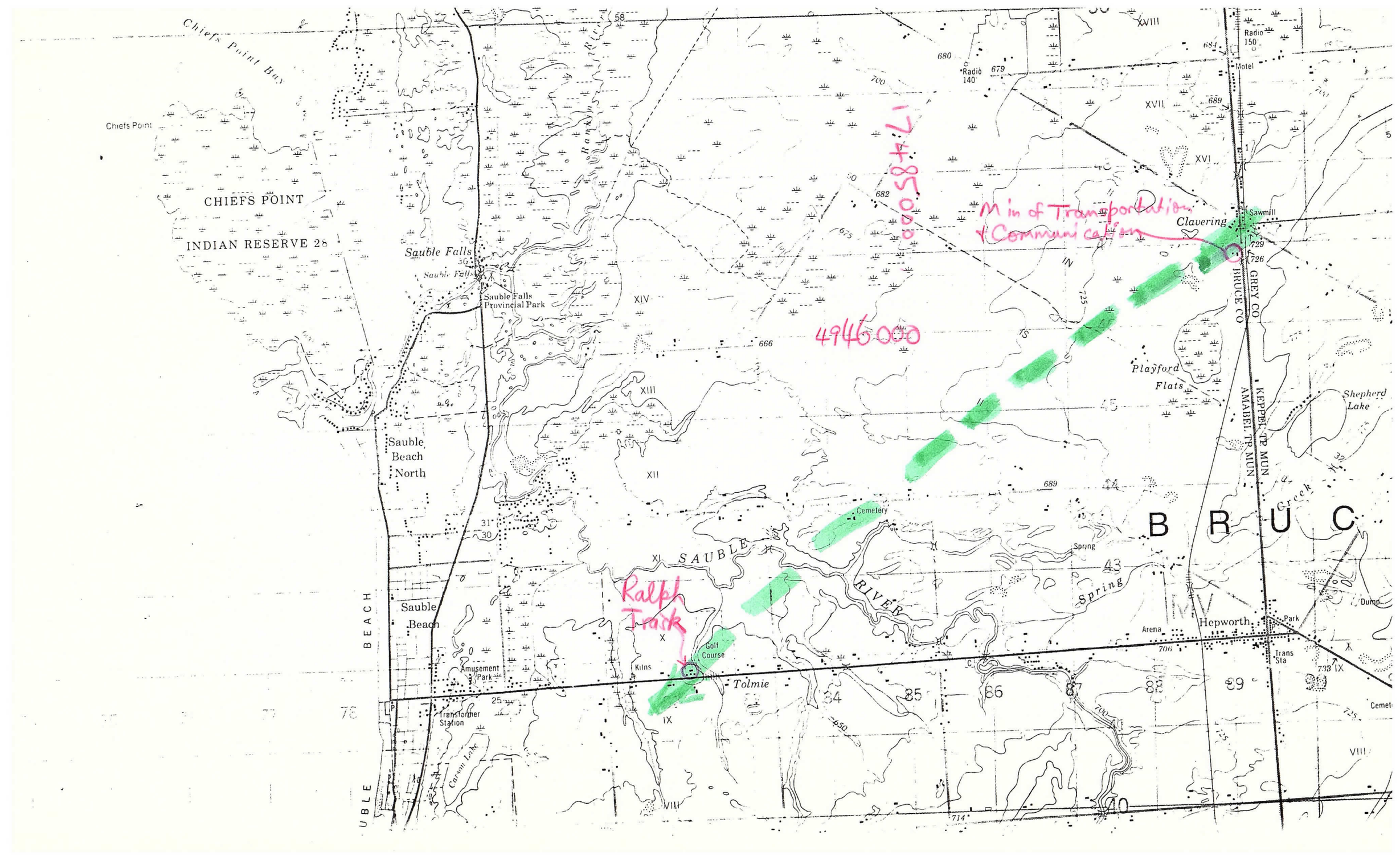
(10) $\beta = \dfrac{\tan^{-1} S_L}{L}$

(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 = 054°


Chiefs Point Bay
Chiefs Point
CHIEFS POINT
INDIAN RESERVE 28
Sauble Falls
Sauble Falls Provincial Park
Sauble Beach North
Sauble Beach
Amusement Park
Golf Course
Kilns
Tolmie
Transformer Station
Carson Lake
SAUBLE BEACH
SAUBLE RIVER
Cemetery
Spring
Spring
Ralph Trask
Clavering
Sawmill
Playford Flats
Shepherd Lake
KEPPEL TP
AMABEL TP
MUN
BRUCE CO
GREY CO
Hepworth
Arena
Park
Trans Sta
Dump
Motel
Radio 140
Radio 150
4946000
17484000
Min of Transportation & Communication

Telephone Interviews by M.J. Newark Oct 28, 1980

Mrs R.G. Dickie (519) 376-9128. Lot 20, conc 12, Derby Township. On his farm the tornado hit at approximately 1100 EDT. The end was taken out of the barn., the doors were taken off the driving shed. Mrs Dickie recalled that a salt and sand storage shed belonging to MTC near Clavery was demolished and that a swath of trees were blown down on the Shouldice Side road. She was not sure of the exact location. Her son saw a "spiral shaped cloud" approaching the farm from the north. He watched it wreck the buildings on his farm and then move across the road towards the neighboring farm of Murton MacDonald where only minor damage was sustained.

Elmer Love (519) 934-2367. Mrs Love said that the tornado hit at about 1100 EDT. The roof was taken off the barn and debris was carried towards the west into a neighbours field across the road. Willows were uprooted, and a garage door was loosened.

Ralph Posthumus (519) 934-2423. Was in the barn when the storm struck at about 1130 EDT. He ran to the house which began to shake. He heard a crash and found that his concrete block silo was twisted off its foundation and fell in a heap from east to west. He said that two wagons were lifted and thrown 50 feet. The tornado was over in seconds.

Ralph Track (519) 422-1768. Mrs Track was home and said that their iframe and metal covered aircraft hangar was destroyed. The roof was lifted up and fell back to the ground a little to the west of the original location.

The walls of the hangar were blown outwards. An airplane which was inside received damage to it's left wing. A cherry tree was snapped off.

Loretta's Snack Bar, Shallow Lake. (519) 935-2316.
This is located on Hwy 70 at the Shouldice Road intersection. Trees, (mature maples and Willows) were uprooted and fell towards the south.

end out of barn
doors off driving shed. hit ~~2~~ 10
north-east

Conc 12
Hms
Derby Tp.

Hit
between 10 – 11 swath out of bush on side road

neighbours across the road Milton MacDonald.

Hit about 11%
~~between~~ Elmer Dove. uprooted willow,
roof off barn, door loosened
debris carried towards the west (across the road into neighbours)
~~East~~
⇒ Ralph Posthumus
Silo damage.
(519) 934-2423

~~Hit~~ 11% IBO

- men in the house, saw the storm, storm was over in seconds, house was shaking. Twisted silo from east to west. broke trees in bush to the south. but nothing on next line.
lifted wagons and threw them 50 ft.

Shoublice Cement ~~Block~~ Products
(519) 935-2771

George Clarke
at the Clattering Yard when storm occurred
MTC IN OWEN SOUND
(519) 376-7350
~~Clattering~~

(519) 935-2316 Donetta's Snack Bar
rain, blew down trees uprooted towards south, willow + maple
Mrs + Mrs Trask Sr.
422-1276

Ralph Trask (519) 422-1768
farm + contracting business

about 11%
roof lifted up, and walls went out
Snapped cherry tree

Metal Aircraft hangs destroyed, and ~~left wing~~ aircraft ~~damaged~~ damaged