(ROH76-1)

Possible Tornado
Eloida, Ontario
September 6, 1979

Date- Local: Thursday, September 6th, 1979
UTC: Friday, September 7th, 1979
Time- Local: 2030
UTC: 0030
Location: Eloida
Region: Brockville - Leeds and Grenville
Classification: Possible Tornado
Category: -999
Casualties: None
Track Length: None available
Width: None available
Motion: None available
Damage Estimate: None available
F-Scale Rating: F1
Code: FS
Damage Survey: None
Spotter Reports: None
Other Documents:
Newspaper article
Map of possible tornado track
Newark summary sheet

Tornado F-Scale Re-Assessment

Brad L. Rousseau
Tornado Data Production Assistant, Environment Canada
January 31st, 2011

Classification: Possible Tornado
Date: Thursday, September 6th, 1979
Location: Eloida, Brockville - Leeds and Grenville Region

Original Assessment: F0
Re-Assessment: F1
F-Code: FS
Explanation of Assessment: A 16 ft x 50 ft farm silo was leveled constituting an F1 rating.

SJS

B

TORNADO PROJECT SUMMARY SHEET

F=0 ONT

1. DATE AND TIME THUR SEPT 6, 1979 2030 EST

2. LOCATION OR PATH (attach map)
ELOIDA (NR ATHENS) TO VCNTY LYN 0697920

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

4. PATH WIDTH ☐ 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; "IT WAS ROARING"

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) ASSOCIATED WITH HURRICANE DAVID

10. TOTAL DAMAGE ESTIMATE $ U

11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE

13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

BROCKVILLE RECORDER & TIMES, SEPT 7, 1979.
Telephone Interviews by M.S. Newark Jan 2, 1981

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

(a) no remarks (it was dark)

(b) Silo levelled, trees uprooted (they fell pointing southwards)

WORKSHEET

TDTO 069 7920

30C

① ORIGIN x 18423400
y 4947600

⑤ Standard Error S_x

1000 C

② LIFT-OFF x_1 18439250
y_1 4937100

⑥ Standard Error S_y

③ $(x_1 - x)$ = 15850

④ $(y - y_1)$ = 10500

⑦ DAMAGE LENGTH

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

③+④ $\boxed{\rightarrow r,\theta}$ = 19012 m

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

$\boxed{x \leftrightarrow Y}$ = 34°

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

⑤+⑥ $\boxed{\rightarrow r,\theta}$ = 1000 C

⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

⑦+⑨ $\boxed{\rightarrow r,\theta}$
$\boxed{x \leftrightarrow Y}$ = 3°

NE Quad $\phi = 90 - \alpha$
NW Quad $\phi = 270 + \alpha$
SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ ϕ = 304°