B

TORNADO PROJECT SUMMARY SHEET

F = 1 ONT

1. DATE AND TIME: OCT 8, 1977 2000 EST

2. LOCATION OR PATH (attach map)

VCNTY KENT BRIDGE 0697718

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

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; "Then came a funny noise and everything went black"

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) Golfball sized hail at Essex.

10. TOTAL DAMAGE ESTIMATE $ 11. TOTAL DEATHS

12. TOTAL INJURED 13. TOTAL HOMELESS

14. LIST ALL REFERENCES

CFPL Radio news story. Oct 9, 1977.
Windsor Star, Oct 11, 12, 1977.
Kitchener-Waterloo Record, Oct 11, 1977.
Telephone interviews Dec 18, 1980 by M. J. Newark

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

(a) no remarks

(b) Vicinity of Kent Bridge, a house was moved 6 feet off its foundation and the roof was torn off. Corn cribs, storage sheds, silos & hydro poles were damaged. Mr Cudney said that friends had informed him that from the air the mark the tornado made was visible through the fields as far to the southwest as Highway 40. (No confirmation of this could be obtained however, MJN).

WORKSHEET

IDTO 0697718

(1) ORIGIN x 1740500

y 4711100

(2) LIFT-OFF x_1 1741200

y_1 4712600

(3) $(x_1 - x)$ = 4500

(4) $(y - y_1)$ = 1500

(5) Standard Error S_x C500

(6) Standard Error S_y C500

(7) DAMAGE LENGTH

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

(3)+(4) $\boxed{\rightarrow r,\theta}$ = 4743

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

$\boxed{x \leftrightarrow Y}$ = 18°

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

(5)+(6) $\boxed{\rightarrow r,\theta}$ = 7.07 m C.

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

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

$\boxed{X \leftrightarrow Y}$ = 8°

NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ = 252°

OCT 9 1977 3-00 PM

twister

A family living on a farm just north of Kentbridge, in the Chatham area, escaped unharmed last night after ~~shrix~~ a twister followed a path straight to their house. The house itself wasn't quite so fortunate as it was torn from its foundation and had its roof sheered off.

Mr. and Mrs. Jim Cudney said their three children were in their bedrooms when the twister hit at about 9-pm but all ~~three~~ managed to scramble to safety without injury.

The Cudney's said that in addition to the damage sustained by their house the twister also uprooted two corn cribs and a storage shed. They said damage could run as high as 100-thousand dollars.

VN/cfpl-tv 2:45-pm 9/10/77

STORY USED BY CFPL RADIO, LONDON

RECEIVED
OCT 17 1977
Action.....