(1) B
(2) B

TORNADO PROJECT SUMMARY SHEET

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

ONT

1. DATE AND TIME: SUN AUG 22, 1971 (1) & (2) 1815 EST

2. LOCATION OR PATH (attach map)
(1) SARNIA 0697108
(2) SG SARNIA TO BRIGHTS GROVE 0697109

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

4. PATH WIDTH (2) 30 m 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; 6 A dirty brown colour

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

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

12. TOTAL INJURED ONE IN #2. (10 INJURED IN PARTICIPATION) 13. TOTAL HOMELESS M

14. LIST ALL REFERENCES

THE SARNIA OBSERVER, AUG 23, 1971
TELAPHONE INTERVIEWS FEB 25, 1981 by M. S. Newark

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

(a) no remarks

1(b) trees knocked over. Roof structure of house under construction taken off

2(b) High school gymnasium unroofed and also other industrial buildings. 5 house trailers flattened. 3 planes, including a DC 3 were damaged. A 26 foot cabin cruiser twisted around several times in the water (while under full power) and thrown onto the shore injuring one of the occupants.

WORKSHEET

IDT ⊙ 0697108

C200

① ORIGIN x 17 386800 ⑤ Standard Error S_x

y 47 62700

② LIFT-OFF x_1 ⑥ Standard Error S_y

y_1

③ $(x_1 - x) =$

④ $(y - y_1) =$

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] =

[x ↔ y] =

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

⑤+⑥ [→ r, θ] =

⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

⑦+⑨ [→ r, θ]

[x ↔ y] =

NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ $\phi =$

WORKSHEET

IDTO 0697109

(1) ORIGIN x 17388200
y 4757500

(5) Standard Error S_x C200

(2) LIFT-OFF x_1 17399800
y_1 4765900

(6) Standard Error S_y C500

(3) $(x_1 - x)$ = 11600

(4) $(y - y_1)$ = 8400

(7) DAMAGE LENGTH

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

(3)+(4) [→r,θ] = 14322

(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] = 539 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°

Hwy 7

Green Haven Trailer Camp (519) 542-4803

Charlie Moore 2710 John St Bright's Grove (519) 869-4549
2 blocks from lake 5 to 5:30 pm

Lamoureux Furniture 1541 London Rd. Sarnia (519) 542-7711
Morris Lamoureux Blackwell Sideroad 500 yds east
south side

Mees Ken Holmes 895 Retlaw Sr Sarnia (519) 542-4213
5% ~~South to north~~

Bob Moses 925 McCaw St Sarnia (519) 542-6324
Took roof off. x Evans

St Clair High School (519) 332-1140

Roland Gauthier, 1225 Cartier (519) 344-2385

Green Haven Trailer Camp.

→ Afternoon. went directly ~~east~~ west to ~~west~~ east, path 100 ft. wide, about 1600 ft from highway

took 5 out of 16 mobile homes, demolished them completely. Luckily, no one was home at the time. began to rain ~~very~~ extremely hard. damage occurred during the rain. Sky turned a dirty brown colour.

Barn of neighbour directly east was demolished

Bob Moses 925 Mc Caw St (at Evans) 2 streets from lake. Afternoon. ~~Ruffin~~ Building roof on house, trusses were ripped off.

Trees in Indian Rd, and also Retlaw Park.