

B

TORNADO PROJECT SUMMARY SHEET

F=0

ONT

1. DATE AND TIME MON AUG 25, 1975 1630 EST

2. LOCATION OR PATH (attach map) 1 MILE NORTH OF CUMBERLAND BEACH (N of ORILLIA)
0697505

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; (1) Sky orange-green colour. (2) NOISE LIKE A FREIGHT TRAIN

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 U

14. LIST ALL REFERENCES
Personal communication with JACK THOMAS, Ontario weather Centre employee

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

(a) no remarks

(b) Mr Thomas said that the tornado caused tree damage along a track. ESE'wds a road the Counciling to Lake St John (in the vicinity of Orillia's Airport). He didn't actually see a funnel.

WORKSHEET

IDTO 0697505

C 1000

① ORIGIN x 17628000
 y 4953000

⑤ Standard Error S_x

C 1000

② LIFT-OFF x_1 17633300
 y_1 4947700

⑥ Standard Error S_y

③ $(x_1 - x) = 5300$

④ $(y - y_1) = 5300$

⑦ DAMAGE LENGTH

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

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

③ + ④ $\rightarrow r, \theta = 7495$

$x \leftrightarrow y = 45^\circ$

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

⑤ + ⑥ $\rightarrow r, \theta = 1414 \text{ m C}$

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

⑦ + ⑨ $\rightarrow r, \theta$
 $x \leftrightarrow y = 11^\circ$

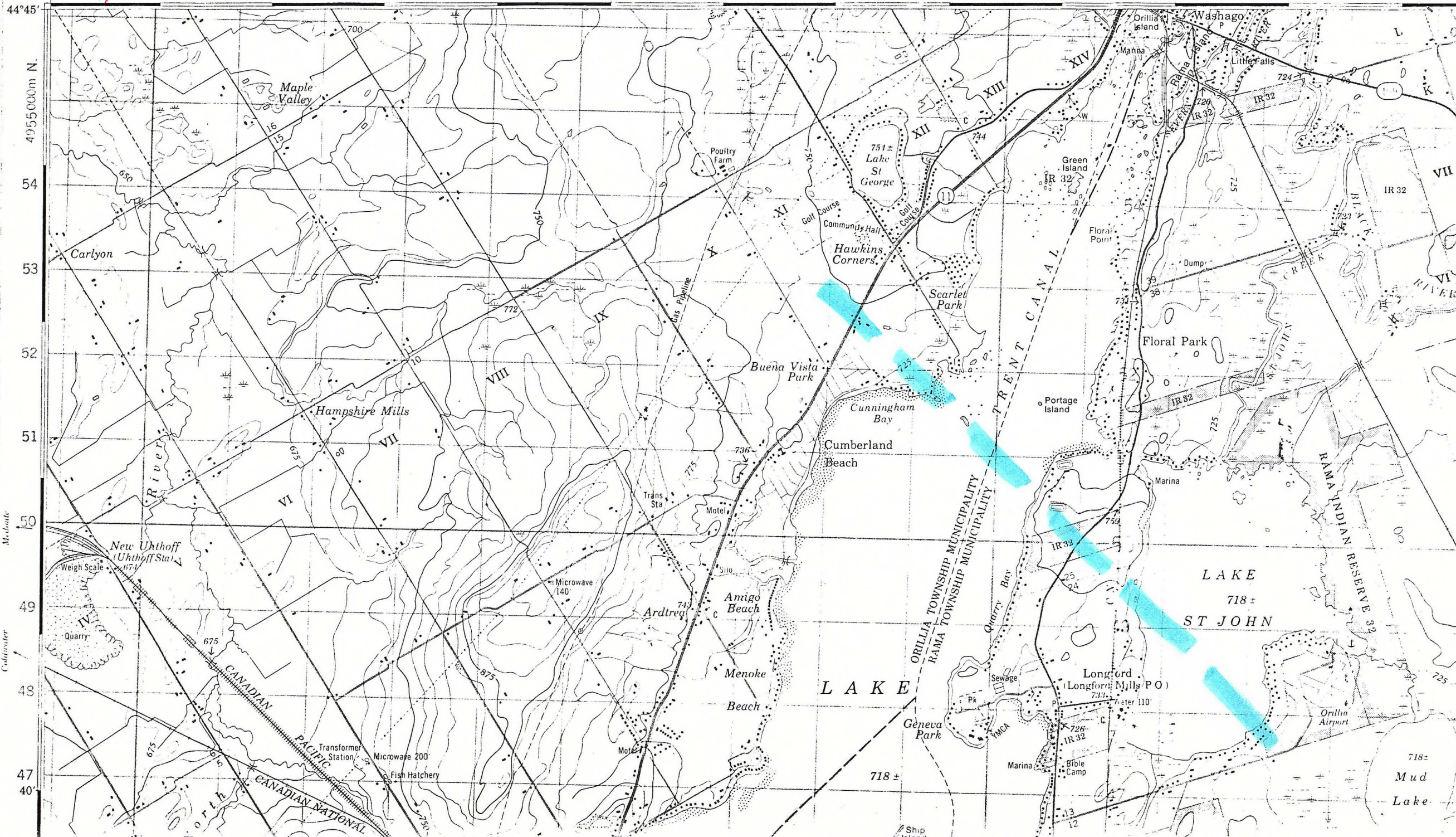
NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ $\phi = 315^\circ$



Metre

Centimetre

47

40

47

40