

A

TORNADO PROJECT SUMMARY SHEET

F=3

ONT

(more in file)

1. DATE AND TIME 20.8.1970 0730 EST

2. LOCATION OR PATH (attach map) VENTY ELLIOT LAKE - SUDBURY - VENTY TEMISCAMING, QUE.
0697008

3. PATH LENGTH NOT KNOWN <1mi; 1-4mi; 5-10mi; 11-50mi; 170 LENGTH IF >50mi

4. PATH WIDTH ^{1/8 to} 1/4 mile

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 \$10 million

11. TOTAL DEATHS = 6

12. TOTAL INJURED 192

13. TOTAL HOMELESS 750

14. LIST ALL REFERENCES
THE SUDBURY TORNADO AUGUST 20, 1970 by G.W. GEE & B.F. FINDLAY TRC 264
THE SUDBURY STAR, AUG 20, 21, 22, 1970 - AUG 20, 1980.
TORONTO TELEGRAPH, AUG 20, 1970
TORONTO STAR AUG 21, 1970.
GLOBE & MAIL AUG 22, 1970.

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

The dead (early reports of 10 appear exaggerated)

- ① Pasquale Rocca, crushed behind camper truck in Lively
- ② Paul Reback, tractor rolled on top of him in Copper Cliff
- ③ Vincent Howard, crushed under truck in Sudbury.
- ④ Unknown person, crushed in collapse of construction at Wary Industries Sudbury.
- ⑤ Cordelia Quennell, killed in her house trailer that was blown through the air in Field.
- ⑥ Mrs Joseph Lafebuse, trapped in debris after home in Field. Died later in hospital.

WORKSHEET

IDTO 0697008

3000 C

① ORIGIN x 17391000
 y 5141000

⑤ Standard Error S_x

② LIFT-OFF x_1 17648500
 y_1 5178600

⑥ Standard Error S_y

③ $(x_1 - x) = 257500$

④ $(y - y_1) = 37600$

⑦ DAMAGE LENGTH

$$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2} \quad (8) \alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|}$$

③+④ $\rightarrow r, \theta = 260231 \text{ m}$

$x \leftrightarrow y = 8^\circ$

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

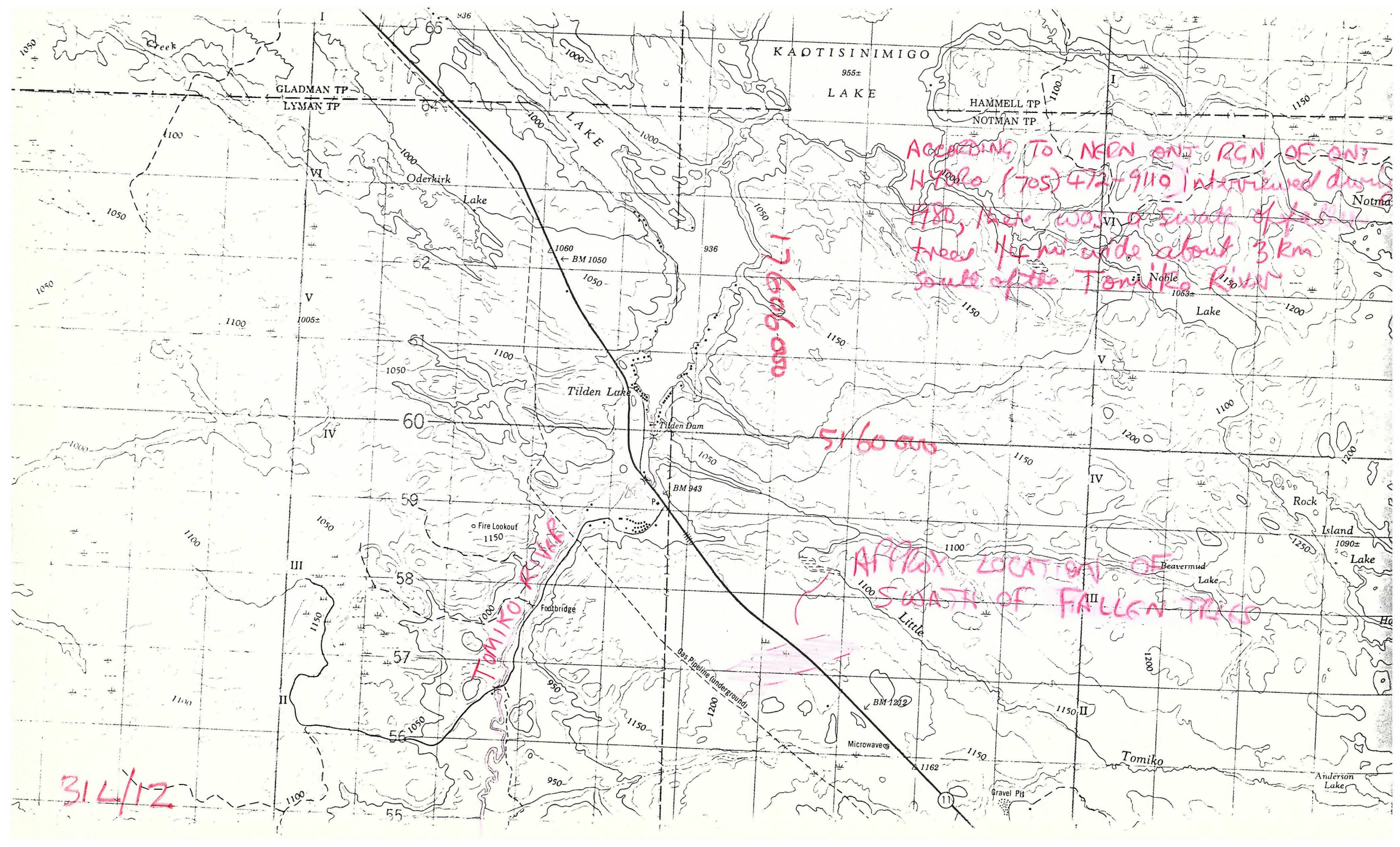
⑤+⑥ $\rightarrow r, \theta = 3354$

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

⑦+⑨ $\rightarrow r, \theta$
 $x \leftrightarrow y = 1^\circ$

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

⑪ $\phi = 262^\circ$



GLADMAN TP
LYMAN TP

KAOTISINIMIGO
LAKE
955±

HAMMELL TP
NOTMAN TP

ACCORDING TO NEEN ONT RGN OF ONT
HYDRO (705) 472-9110 interviewed during
1980, there was a swath of fallen
trees 1/4 mi wide about 3 km
south of the Tomiko River

17606.000

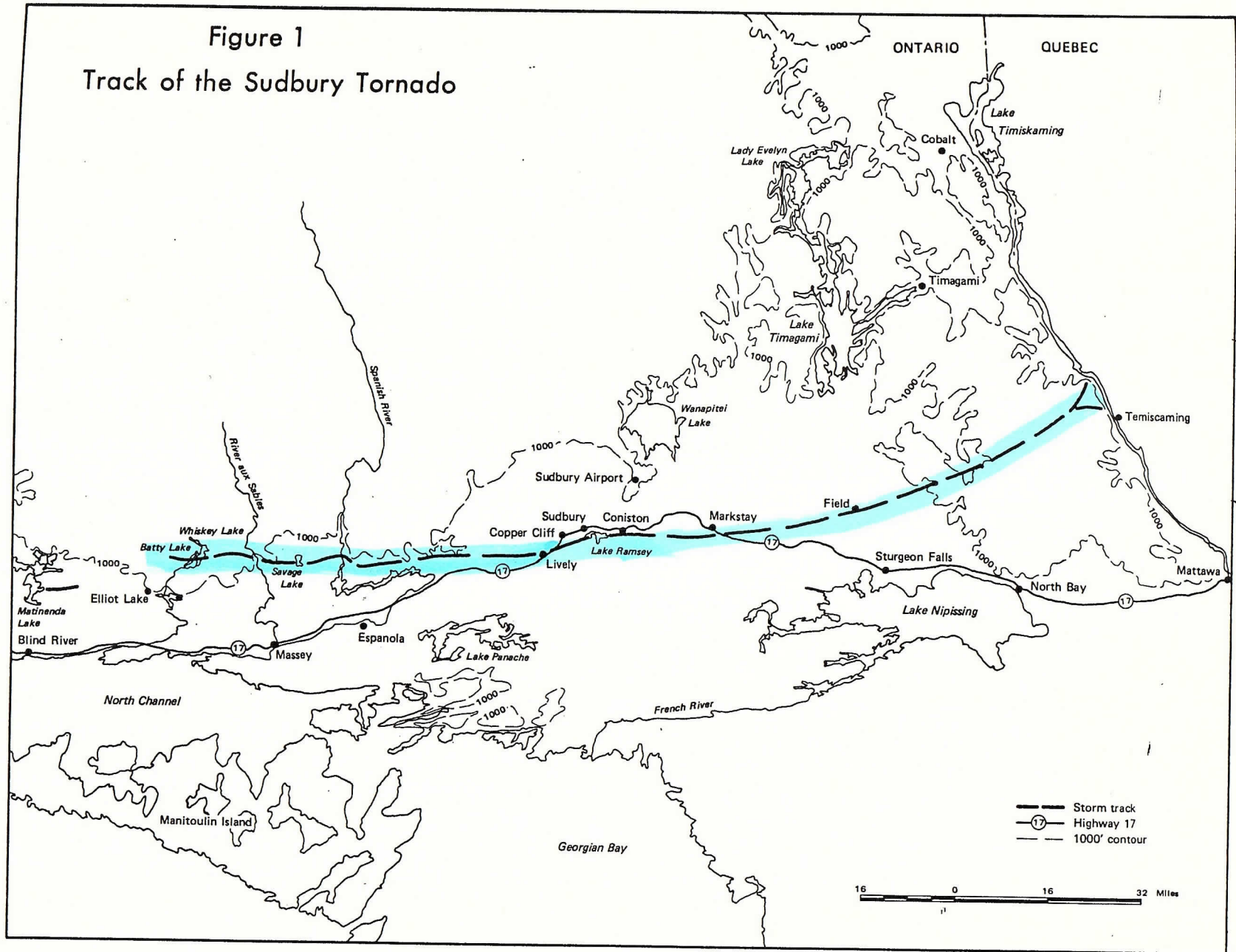
5160.000

APPROX LOCATION OF
SWATH OF FALLEN TREES

TOMIKO RIVER

314/12

Figure 1
Track of the Sudbury Tornado



17, 200, 000, 61, 1/4
-
1/1