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) VCNTY ELLIOT LAKE – SUDBURY – VCNTY TEMISCAMING, QUE.

0697008

3. PATH LENGTH ☐ NOT KNOWN ☐ <1 mi; ☐ 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.GAY & B.F. FINDLAY TRC 264
THE SUDBURY STAR, AUG 20, 21, 22, 1970 - AUG 20, 1980
TORONTO TELEGRAM 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 exagerated)

(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 Cavry Industries Sudbury
(5) Cordelia Quennaville, killed in her house trailer that was blown through the air in Field.
(6) Mrs Joseph Lafebvre, trapped in the debris of her home in Field. Died later in hospital.

4158. 3114

WORKSHEET

IDTO 0697008

3000 C

① ORIGIN x 1739100

y 5141600

⑤ Standard Error S_x

1500 C

② LIFT-OFF x_1 1764850

y_1 5178600

⑥ Standard Error S_y

③ $(x_1 - x)$ = 257500

④ $(y - y_1)$ = 37600

⑦ DAMAGE LENGTH

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

③+④ [→ r,θ] = 260231 m

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

[x↔y] = 8°

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

⑤+⑥ [→ r,θ] = 3354

⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

⑦+⑨ [→ r,θ]

[x↔y] = 1°

NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ ϕ = 262°

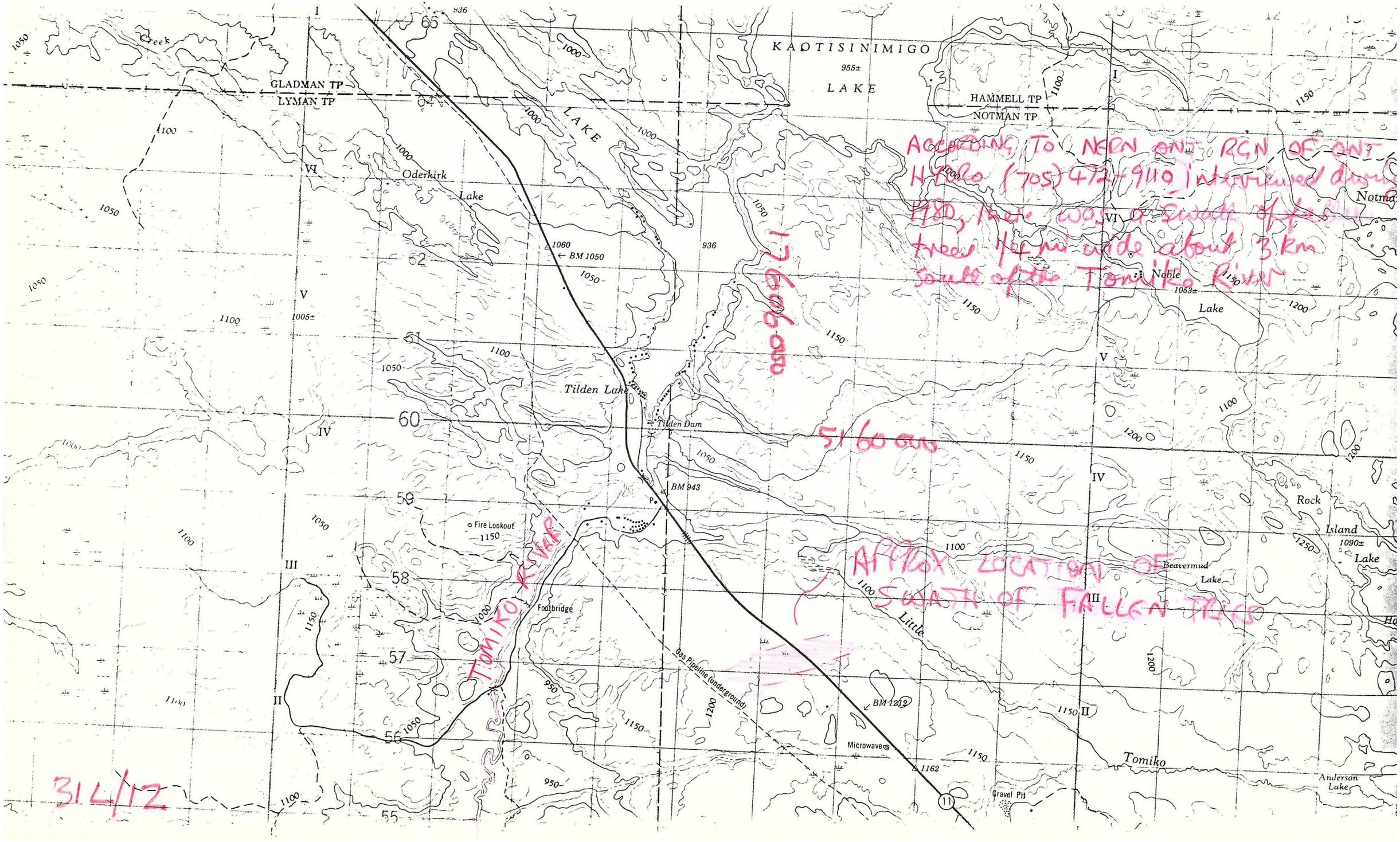

KAOTISINIMIGO LAKE
955±
GLADMAN TP
LYMAN TP
HAMMELL TP
NOTMAN TP
Oderkirk Lake
Tilden Lake
Tilden Dam
BM 943
BM 1050
1060
936
Fire Lookout
1150
Footbridge
Gas Pipeline (underground)
TOMIKO RIVER
BM 1212
Microwaves
1162
Gravel Pit
Noble Lake
1063±
Rock Island Lake
1090±
Beavermud Lake
Little
Tomiko
Anderson Lake
Notma
ACCORDING TO NRCN ONT RGN OF ONT HYDRO (705) 472-9110 INTERVIEWED DURING 1980, THERE WAS A SWATH OF TREES 1/4 MI WIDE ABOUT 3 KM SOUTH OF THE TOMIKO RIVER
APPROX LOCATION OF SWATH OF FALLEN TREES
51 60 00
51 60 00
314/12

Figure 1

Track of the Sudbury Tornado

