C

TORNADO PROJECT SUMMARY SHEET

F=0

1. DATE AND TIME Thurs Aug 13 '53 shortly after 5pm ADT (4pm AST)
2. LOCATION OR PATH (attach map) Grand Falls NB.
3. PATH LENGTH ☑ NOT KNOWN ☐ <1mi; ☐ 1-4mi; ☐ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF>50
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;

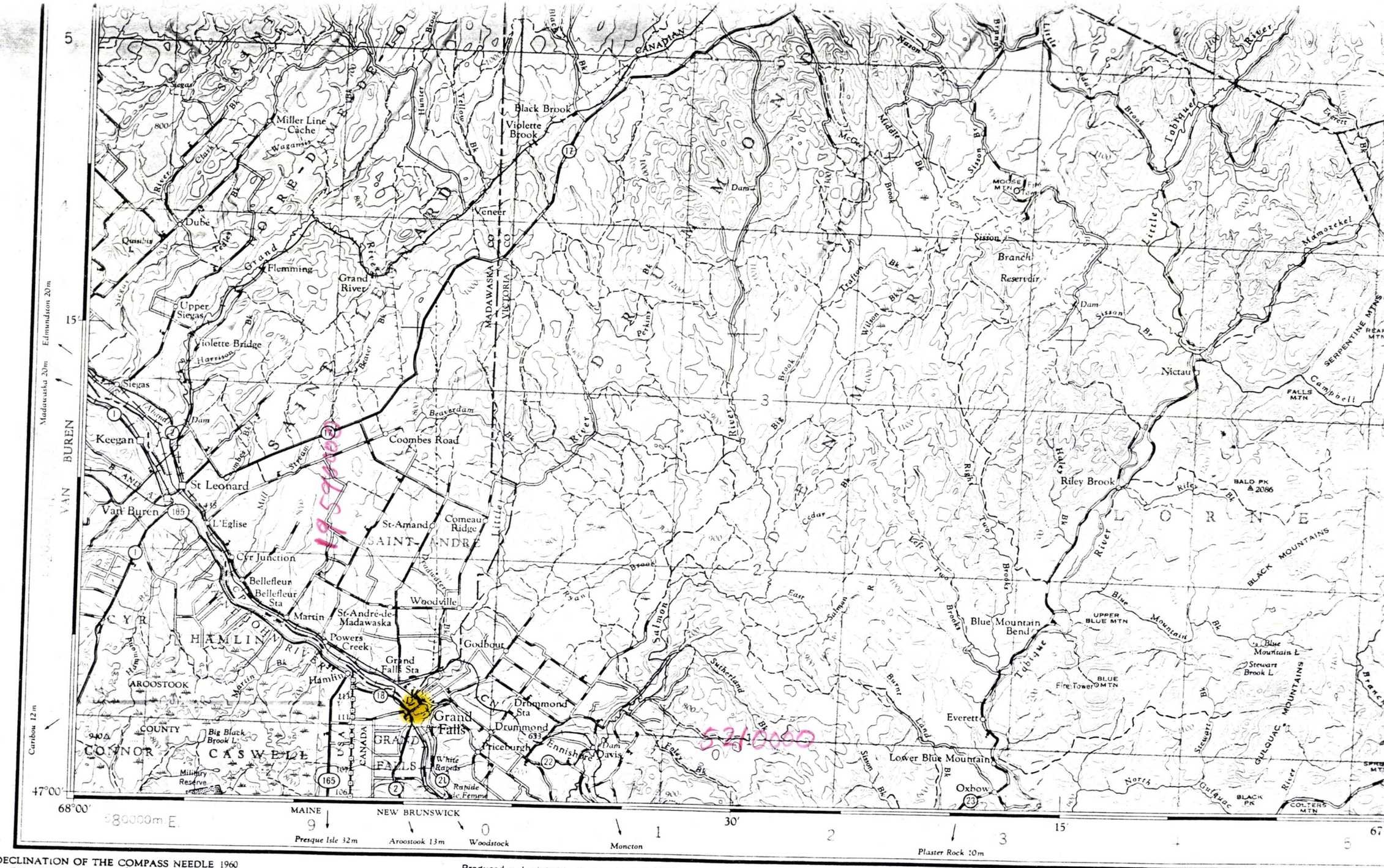
9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.)

10. TOTAL DAMAGE ESTIMATE $ 20,000 11. TOTAL DEATHS 0
12. TOTAL INJURED 0 13. TOTAL HOMELESS U
14. LIST ALL REFERENCES

Cape Breton Post. Aug 13'53

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

- Eighteen elms were either broken or damaged on the boulevard highway.
- A starch factory which was under construction had part of its roof blown off.
- several homes were damaged, telephone and electric wires were downed


Miller Line Cache
Black Brook
Violette Brook
Veneer
Dubé
Flemming
Grand River
Upper Siegas
Violette Bridge
Siegas
Keegan
St Leonard
Van Buren
L'Eglise
Coombes Road
St-Amand
Comeau Ridge
Cyr Junction
Bellefleur
Bellefleur Sta
Martin
St-André-de-Madawaska
Woodville
Powers Creek
Grand Falls Sta
Hamlin
Gouldbour
AROOSTOOK
COUNTY
CASWELL
COUNTY
Big Black Brook L.
Military Reserve
GRAND FALLS
Grand Falls
Drummond Sta
Drummond
Priceburgh
Ennishore
Davis Dam
White Rapids
Rapide Sic Femme
Riley Brook
BALD PK
2086
Nictau
Branch Reservoir
Dam
Sisson
Everett
Blue Mountain Bend
UPPER BLUE MTN
Blue Mountain
Blue Mountain L.
Stewart Brook L.
BLUE
Fire Tower MTN
Lower Blue Mountain
Oxbow
BLACK MOUNTAINS
GULQUAC MOUNTAINS
SERPENTINE MTNS
FALLS MTN
Campbell
COLTERS MTN
Gulquac
Tobique
Namozekel
Little
Middle
McCoy
Wilson
Trafton
Perkins
Beaverdam
Dead Water
Cedar
Left Two Brooks
Right Two Brooks
East Salmon R
Sutherland
Burnt Land
Foley
Hales
Riley
Blue Mountain
Stewart
Gulquac
North
Sisson
Trafton
Wilson

Cape Breton Post: Aug 14 '53 Tornado ?
Storm Date: Thursday Aug 13 '53

Severe Electric Storm In N.B.

GRAND FALLS, N.B. (CP)—A severe electric storm struck Grand Falls in west central New Brunswick shortly after 5 p.m. Thursday, leaving a trail of destruction in the immediate vicinity. Damage was estimated at 20,000.

Eighteen elms which lined the boulevard highway there were either broken or badly damaged. Several trees on other streets were felled, causing damage to telephone and electric wires and nearby houses.

A co-operative starch factory, which is to open in the near future, had part of its roof blown off. Several homes were damaged.

WORKSHEET

IDTO 04953-01

(1) ORIGIN x 19596000

y 5212000

(5) Standard Error S_x

0 = 500

(2) LIFT-OFF x_1

y_1

(6) Standard Error S_y

(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) $\boxed{\rightarrow r, \theta}$ =

$\boxed{x \leftrightarrow y}$ =

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

(5)+(6) $\boxed{\rightarrow r, \theta}$ =

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

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

$\boxed{x \leftrightarrow y}$ =

NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

(11) ϕ =

