05969-03

C

TORNADO PROJECT SUMMARY SHEET

F=0

1. DATE AND TIME Sat July 5 1969 afternoon

2. LOCATION OR PATH (attach map) Quebec City

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

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 $ 5000 11. TOTAL DEATHS 0

12. TOTAL INJURED 0 13. TOTAL HOMELESS 0

14. LIST ALL REFERENCES
Quebec Chronicle-Telegraph
July 7 '69

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

- gusts ripped up metal roofing
- large tree uprooted
- winds estimated to be 70 mph

Canadian Press
Clipping Service

Quebec Chronicle-Telegraph
Quebec
Circ. 4,749
July 7, 1969

PM SAT JULY 5 1969

Storm Caused $5,000 Damage In Limoilou

A violent "mini-storm" caused more than $5,000 damage to a part of the Limoilou sector of the city Saturday afternoon.

The storm, accompanied by rain and gusts of wind reaching 70 miles an hour caused extensive damage to several houses on 4th avenue as well as some damage to cars from falling branches.

At times the gusts were so strong, parts of metal roofing were ripped up and sent crashing to the sidewalk.

Firemen from stations 10 and 14 were called out to cope with the falling debris.

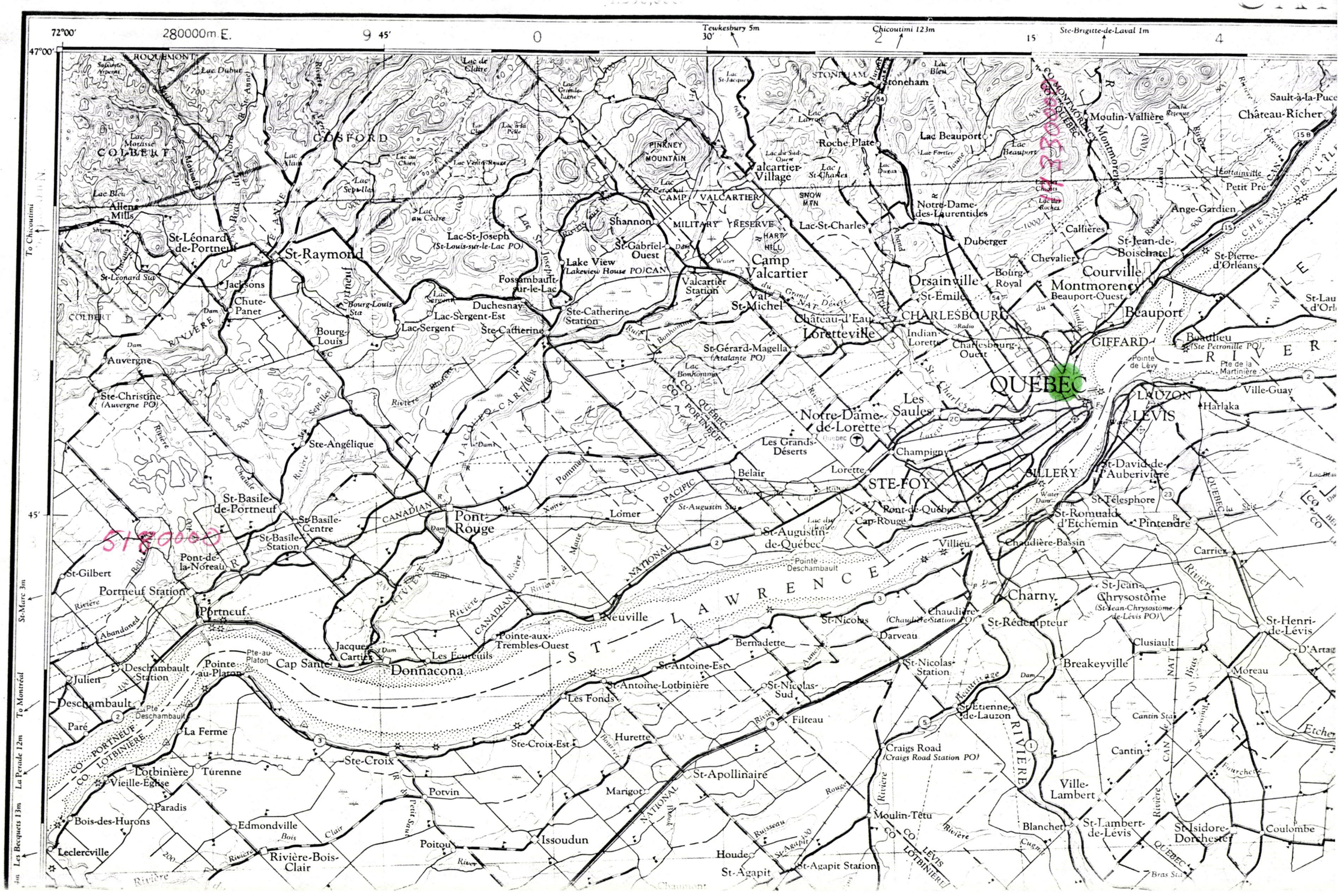
No one was hurt in the incident and residents of the area said much was owed to the firemen who were instrumental in dealing with the situation.

TREE TOPPLED

Several people narrowly escaped serious injury when a large tree, nearly uprooted from the wind, keeled over on the sidewalk several moments after the winds had died down.

Fearing repeat incidents, firemen used mechanical saws to cut off loose branches and also helped in cutting parts of the metal roofing, sometimes bent back at grotesque angles.

Because of the Construction strike in the area, residents will have to wait until the dispute is settled before they can begin repairs on their roofs.


72°00'
280000m E.
9 45'
0
Tewkesbury 5m
30'
Chicoutimi 123m
2
15'
Ste-Brigitte-de-Laval 1m
4
47°00'
45'
To Chicoutimi
To Montréal
St-Marc 3m
La Perade 12m
Les Becquets 13m
5180000
COLBERT
COSFORD
ROQUEMONT
Lac Dubut
Lac Mortisse
Lac Alain
Lac Sept-Îles
Lac au Cèdre
Lac Vert
Lac Grande-Lutre
Lac de Claire
Lac à la Pêche
Lac Chien
Lac au Chien
Lac Verte-Rouge
Lac Bleu
Allens Mills
St-Léonard-de-Portneuf
St-Léonard Sta
Jacksons
Chute-Panet
St-Raymond
Bourg-Louis Sta
Bourg-Louis
Lac-Sergent
Lac-Sergent-Est
Duchesnay
Lac-St-Joseph
(St-Louis-sur-le-Lac PO)
Fossambault-sur-le-Lac
Lake View
(Lakeview House PO)CAN
Ste-Catherine Station
Ste-Catherine
Shannon
St-Gabriel-Ouest
CAMP VALCARTIER
MILITARY RESERVE
PINKNEY MOUNTAIN
Valcartier Village
Valcartier Station
Camp Valcartier
Val-St-Michel
St-Gérard-Magella
(Atalante PO)
Auvergne
Ste-Christine
(Auvergne PO)
Ste-Angélique
St-Basile-de-Portneuf
St-Basile-Centre
St-Basile-Station
Pont-de-la-Noreau
St-Gilbert
Portneuf Station
Portneuf
Pont-Rouge
Lomer
Neuville
Pointe-aux-Trembles-Ouest
Jacques Cartier
Les Écureuils
Cap Santé
Donnacona
Pointe-au-Platon
Pte-au-Platon
Deschambault Station
Deschambault
Pte Deschambault
Julien
Paré
La Ferme
Lotbinière
Vieille-Église
Turenne
Paradis
Bois-des-Hurons
Leclercville
Edmondville
Rivière-Bois-Clair
Ste-Croix
Ste-Croix-Est
Potvin
Poitou
Issoudun
Hurette
Marigot
St-Apollinaire
Les Fonds
St-Antoine-Lotbinière
St-Antoine-Est
Bernadette
Filteau
St-Nicolas-Sud
St-Nicolas Station
St-Nicolas
Darveau
Chaudière
(Chaudière-Station PO)
St-Rédempteur
Houde
St-Agapit
St-Agapit Station
Moulin-Têtu
Craigs Road
(Craigs Road Station PO)
Ville-Lambert
Blanchet
St-Lambert-de-Lévis
St-Isidore-Dorchester
Coulombe
Cantin
Cantin Sta
Moreau
Breakeyville
Clusiault
St-Jean-Chrysostôme
(St-Jean-Chrysostome-de-Lévis PO)
St-Henri-de-Lévis
D'Artagnan
Charny
Carrier
Chaudière-Bassin
Villieu
Pointe Deschambault
St-Augustin-de-Québec
St-Augustin Sta
Cap-Rouge
Ront-de-Québec
St-Romuald-d'Etchemin
Pintendre
St-Télesphore
St-David-de-l'Auberivière
SILLERY
STE-FOY
Champigny
Lorette
Belair
Les Grands-Déserts
Notre-Dame-de-Lorette
Les Saules
QUÉBEC
LAUZON
LÉVIS
Harlaka
Ville-Guay
Pte de la Martinière
Pointe de Lévy
GIFFARD
Beaulieu
(Ste Petronille PO)
Beauport
Courville
Montmorency
Beauport-Ouest
Orsainville
St-Emile
CHARLESBOURG
Indian Lorette
Charlesbourg-Ouest
Château-d'Eau
Loretteville
Bourg-Royal
Chevalier
Duberger
Callières
Lac-St-Charles
Notre-Dame-des-Laurentides
Roche Plate
Lac Beauport
Moulin-Vallière
Château-Richer
Sault-à-la-Puce
Petit Pré
Fontainville
Ange-Gardien
St-Jean-de-Boischatel
St-Pierre-d'Orléans
Stoneham
Lac Bleu
Lac Laurin
Lac St-Jacques
Lac St-Charles
Lac Beauport
Lac Fortier
Lac Jaune
Lac des Roches
Lac des Charles
SNOW MTN
HART HILL
Lac Duplain
Lac Pentecôte
Lac Ste-Anne
Lac Morin
Lac Ste-Agnès
Lac Tourbillon
Lac Lapierre
Lac Lapointe
Lac Lapierre
Lac Lapointe
Lac Lapierre
Lac Lapointe

WORKSHEET

IDTO 05969-03

① ORIGIN x 19331000

y 5188000

② LIFT-OFF x_1

y_1

③ $(x_1 - x)$ =

④ $(y - y_1)$ =

⑤ Standard Error S_x

0 = 250

⑥ Standard Error S_y

⑦ DAMAGE LENGTH

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

③+④ [→ r, θ] =

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

[x ↔ y] =

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

⑤+⑥ [→ r, θ] =

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

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 ϕ =