A

TORNADO PROJECT SUMMARY SHEET

F=0

1. DATE AND TIME Wed Aug 27 '74

2. LOCATION OR PATH (attach map)
Vancouver, BC

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

4. PATH WIDTH U 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.)
funnell 100' high, 50' across at top and 20' at bottom.

10. TOTAL DAMAGE ESTIMATE $ unknown 11. TOTAL DEATHS none

12. TOTAL INJURED none 13. TOTAL HOMELESS none

14. LIST ALL REFERENCES
Vancouver Sun. Thurs. Aug 28 '74

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

- lasted about 4 minutes
- weather official called it a "tiny tornado"
- possibly a large dust devil
- shingles ripped from roof
- windows blown out
- carried a tent trailer 20 feet.

Storm Date: Wed Aug 27 74

The Vancouver Sun
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Tornado no small thing to East End residents

Scott Lewis could see the whirlwind a block away, sending chestnuts, branches and paper spinning 30 feet into the air.

The 12-year-old thought he'd take a closer look, but seconds later he was clutching a sturdy tree for fear he would be blown away.

"I hung on and could see shingles being ripped off my neighbor's house," Scott remembered. "I got scared and started running home and the thing nearly knocked me off my feet."

The "thing," which hit Vancouver's East End at 11:30 a.m. Wednesday was described by the Vancouver airport weather office as a "tiny tornado" not unlike the dust twisters experienced on the Prairies.

No estimates of the wind velocity were registered but the freak disturbance was strong enough to blow out windows, rip a four-inch bough off a chestnut tree and carry a tent trailer 20 feet down the street.

The whirlwind struck in a four-block area around the intersection of Grant and Kamloops, playing havoc with gardens and nearly frightening the neighborhood to death.

"I was looking out our front window and noticed it was kind of dark but also bright," said Chris Campbell, 14, of 2566 Kitchener, "then all of a sudden there was this swoosh and I started freaking out."

"The grass was blown flat, our window blew out and I could see our tent trailer being blown down the street," he said. "I could barely open the front door; it was like a giant vacuum outside."

Chris' 17-year-old brother Joe estimated the tornado was 100 feet high with its funnel measuring 50 feet at the top and 20 feet on the bottom. It lasted about four minutes.

There was paper and wire and wood and everything flying around," Joe said. "You wouldn't believe it."

The most visible damage was seen at Katy Bevacoqua's home at 2697 Grant Street. She and her two children were just finishing lunch when the storm hit and ripped nearly a quarter of the shingles from the roof.

"It was like everything was falling apart," Mrs. Bevacqua said. "The whole house was thundering and vibrating and I just stood in the living room holding my children."

WORKSHEET

IDTO 10974-03

① ORIGIN x 10496000

y 5458000

⑤ Standard Error S_x

$C = 102$

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 $\phi = 270 - \alpha$

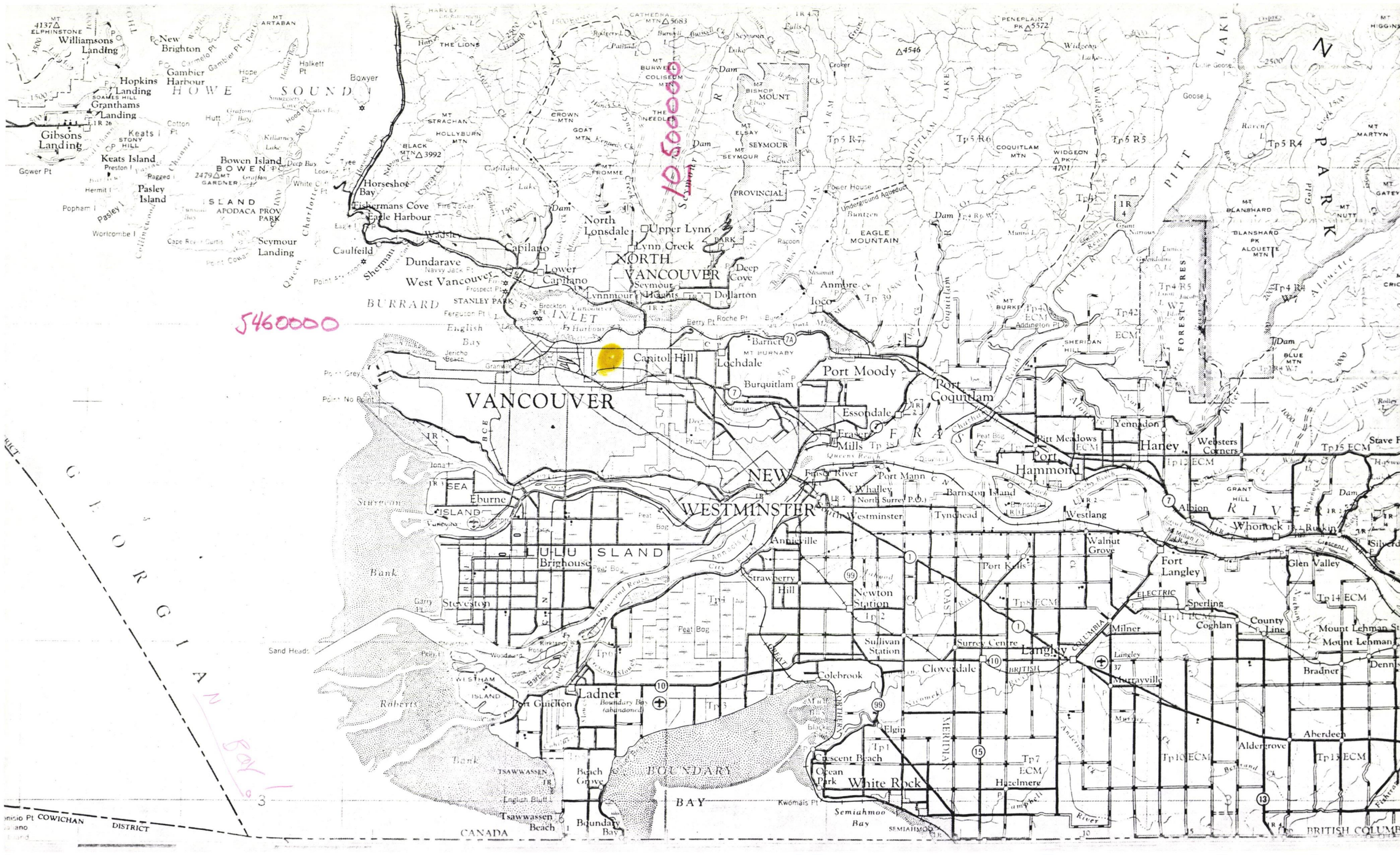
SE quad $\phi = 90 + \alpha$

⑪ $\phi =$

Time, date & location of occurrence - 11:30 a.m. August 27, 1974 in Vancouver's East End.

Minor damage reported but no injuries occurred. The funnel measuring 50 feet at the top and 20 feet on the bottom and 100 feet high lasted about four minutes. Shingles were ripped off houses, windows were blown out and a tent trailer carried 20 feet down the street.

The report of this tornado was carried in the Vancouver Sun on August 28, 1974.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VANCOUVER
NORTH VANCOUVER
WEST VANCOUVER
NEW WESTMINSTER
BURNABY
PORT MOODY
PORT COQUITLAM
PORT COQUITLAM
PORT HAMMOND
HANEY
LANGLEY
SURREY
WHITE ROCK
LULU ISLAND
BOUNDARY BAY
GEORGIAN BAY
HOWE SOUND
BURRARD INLET
STANLEY PARK
CAPITOL HILL
LOCHDALE
BURQUITLAM
ESSONDALE
MILLS
PORT MANN
WHALLEY
BARNSTON ISLAND
TYNEHEAD
WESTLANG
ANNIEVILLE
BRIGHOUSE
STRAWBERRY HILL
NEWTON STATION
PORT KELLS
WALNUT GROVE
FORT LANGLEY
GLEN VALLEY
SPERLING
COGHLAN
COUNTY LINE
MILNER
SULLIVAN STATION
SURREY CENTRE
CLOVERDALE
COLEBROOK
LADNER
PORT GUICHON
BEACH GROVE
TSAWWASSEN
BOUNDARY BAY
CRESCENT BEACH
OCEAN PARK
HAZELMERE
ELGIN
ALDERGROVE
ABERDEEN
BRADNER
MURRAYVILLE
LANGLEY
MILNER
MOUNT LEHMAN
DENN
WHONNOCK
ALBION
GRANT HILL
WESTLANG
WEBSTERS CORNERS
YENNADON
PITT MEADOWS
FRASER MILLS
ESSONDALE
BURQUITLAM
LOCHDALE
BARNET
CAPILANO
LOWER CAPILANO
DEEP COVE
DOLLARTON
ANMORE
IOCO
NORTH LONSDALE
UPPER LYNN
LYNN CREEK
SEYMOUR
HARRIS
LYNNMOUR
CAULFEILD
DUNDARAVE
WADDLEY
HORSESHOE BAY
FISHERMANS COVE
EAGLE HARBOUR
SEYMOUR LANDING
GIBSONS LANDING
KEATS ISLAND
GRANTHAMS LANDING
HOPKINS LANDING
GAMBIER HARBOUR
NEW BRIGHTON
WILLIAMSONS LANDING
BOWEN ISLAND
APODACA PROV PARK
POPHAM I
PASLEY I
HERMIT I
WORLCOMBE I
GOWER PT
ENGLISH BAY
JERICHO BEACH
POINT GREY
POINT NO POINT
SPANISH BANKS
KITSILANO BEACH
IONA I
SEA ISLAND
STEVESTON
SAND HEADS
ROBERTS BANK
TSAWWASSEN BEACH
ENGLISH BLUFF
SEMIAHMOO BAY
KWOMAIS PT
COWICHAN DISTRICT
CANADA
BRITISH COLUMBIA
THE LIONS
MT STRACHAN
HOLLYBURN MTN
BLACK MTN △3992
CROWN MTN
GOAT MTN
THE SPIRES
MT BURWELL
COLISEUM MTN
CATHEDRAL MTN △5683
MT BISHOP
MOUNT SEYMOUR
MT ELSAY
MT FROMME
PROVINCIAL PARK
EAGLE MOUNTAIN
COQUITLAM MTN
WIDGEON △PK 4701
PENEPLAIN PK △5572
MT BLANSHARD
BLANSHARD PK
ALOUETTE MTN
MT NUTT
MT MARTYN
MT GATEY
MT HIGGINS
BLUE MTN
SHERIDAN HILL
COQUITLAM LAKES
WIDGEON LAKE
GOOSE L
LITTLE GOOSE L
RAVEN L
GOLD CREEK
ALOUETTE RIVER
PITT RIVER
COQUITLAM RIVER
FRASER RIVER
CAMPBELL RIVER
MAPLE RIDGE PARK
COAST MERIDIAN
PITT MEADOWS
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