'A

TORNADO PROJECT SUMMARY SHEET

F=0

1. DATE AND TIME April 25 '54 1500 PST
2. LOCATION OR PATH (attach map) Nanaimo B.C.
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 "terrific noise"
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 $ a 11. TOTAL DEATHS 0
12. TOTAL INJURED 0 13. TOTAL HOMELESS 0
14. LIST ALL REFERENCES Vancouver Sun, April 26 '54
15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

- lifted a two car garage broke it apart and sent shingles 200' into the air
- lady saw a "funnel of leaves"

WORKSHEET

IDTO 10954-01

① ORIGIN x 10431500
y 5444500

② LIFT-OFF x_1
y_1

③ $(x_1 - x)$ =

④ $(y - y_1)$ =

⑤ Standard Error S_x
0 = 1000

⑥ Standard Error S_y

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 =

Sunday April 25 '54

The Vancouver Sun

April 26, 1954

Page 22

Freak Whirlwind Tears Garage Apart

Lives of 3 Children Menaced By Twister on Nanaimo Street

From Sun Nanaimo Bureau

NANAIMO, April 26.—The lives of three children were endangered Sunday by a freak whirlwind that lifted a two-car garage over six feet, broke it apart and sent shingles "close to 200 feet" into the air.

The garage parts were scattered for 40 feet along Howard Avenue from its site at the home of Herbert Thomas, 706 Howard in Harewood.

Uninjured were Robert and Katherine Branchi, 694 Howard, four and three years old respectively; and Corrine Thomas, 5, who were playing 15 feet from the vortex.

Mrs. Thomas, who was looking out her kitchen window, said she saw a funnel of leaves swing toward the kiddies then back toward the road and in through an open door of the garage, which was 16 feet square.

"It fluttered their clothes as they were only six feet from the edge."

The children seemed dumbfounded for a moment then the "terrific noise" scared them and they ran into the Thomas' home, she said.

An old model Nash car within the garage was left unmarred by the explosive violence of the wind.

Nanaimo Freepress
Monday April 26, 1954
Page 1

Freak Wind Moves Two-Auto Garage 15 Feet in Harewood

A two-car garage at the home of Mr. and Mrs. Herb Thomas, 706 Howard avenue, was lifted bodily by a heavy gust of wind on Sunday afternoon around four o'clock. It was moved from the yard into the adjoining roadway, a distance of about 15 feet. No one was injured though children were playing in the vicinity at the time.

Garage was without floor and was the victim of a "twister" that suddenly visited the Harewood district.

Three little girls had a narrow escape from death of serious in-

y.

Corinne Thomas, age 4, with two little friends was playing in the yard of the Thomas home when the whirlwind struck.

The children stood transfixed, their parents reported, when they saw the garage go skyward. Mr. Thomas said, "the wind lifted the garage about 20 feet in the air where it seemed to explode, scattering wreckage for hundreds of yards."

Car Undamaged

A car which was in the garage was lifted slightly into the air but was undamaged.

"The wind fluttered their clothes as they were only six feet from where it struck," said Mrs. Thomas. Her husband remarked that the girls didn't even have time to run for shelter, the garage went up so suddenly.

Mr. Thomas was able to salvage two of the walls which can be used in the reconstruction. He dragged them back to his yard from where they were blown by the wind. The rest of the building is scattered far and wide.

On leaving the property the wind stripped a few pieces of tin from the corner of the Thomas barn.

Rain, hail, sleet, clouds, wind and sunshine were all included in the weather menu for the 24 hours ending at 8 this morning. Heavy wind guests were felt elsewhere in the city but no serious damage is reported.

Hiram Gough, weatherman, recorded .10 inches of hail and a low of 29.4 in the 24 hours. Cold winds kept the minimum reading down to 47.8 degrees.

Cold air lies over the entire province. Across the northern half, skies were clear and temperatures very cold.

In the south, cloudiness was variable and there were showers of rain or snow in the interior. Cloudiness will decrease in these areas tonight.

Forecast for Vancouver, Lower Fraser valley and Georgia Strait is cloudy with widely scattered showers of rain or hail, colder tonight.—Low-high at Vancouver will be 36-54; Abbotsford and Nanaimo, 30-54.

Time, date & location of occurrence - April 25, 1954 in Nanaimo, B.C.

Three pre-school children were badly frightened, but otherwise no injuries resulted. A 16 foot square garage was the only property damaged. A witness saw a funnel of leaves swinging towards her children playing in the back yard. Then it moved back towards the road and veered again into the yard. It hit the open doored garage square on lifting it over 6 feet, breaking it apart. Garage debris was scattered for some 40 feet along the street and shingles whirled into the air "close to 200 feet". A car in the garage was undamaged. Only the clothing of the children who were playing 15 feet from the garage was fluttered. However, the noise and garage destruction was a frightening experience for them.

This minor twister was reported in the Vancouver Sun on April 26, 1954.

Time, date & location of occurrence - mid afternoon on May 3, 1956 in East Vancouver in the vicinity of Slocan Street & Kingsway.

This was a relatively weak twister with the cloud pendant touching the ground for a very brief period. Only two neighboring houses reported broken windows and ripped shingles. No injuries were reported.

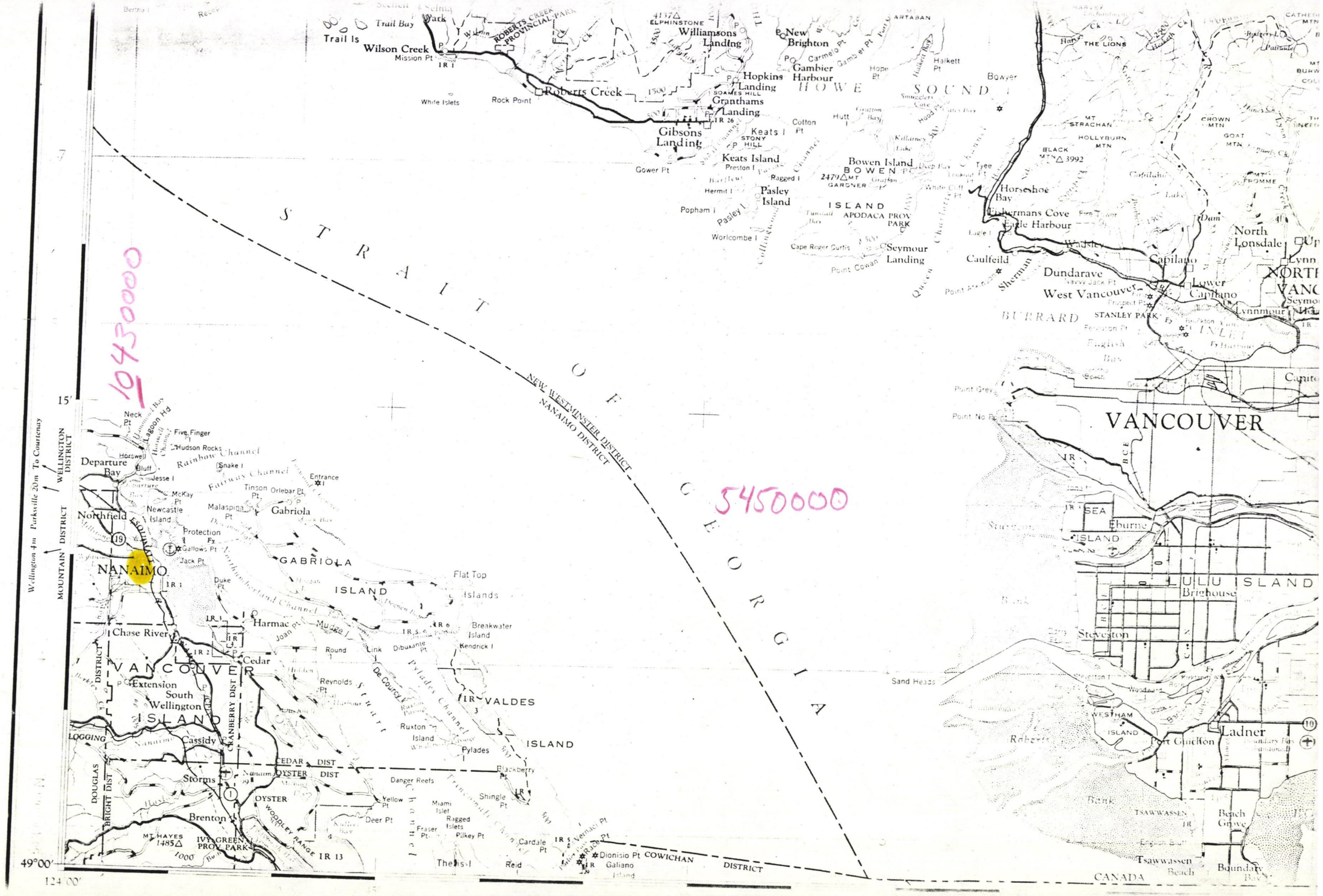
This minor tornado was reported in the Vancouver Sun on May 4, 1956.

Time, date & location of occurrence - April 25, 1954 in Nanaimo, B.C.

(3)

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This minor twister was reported in the Vancouver Sun on April 26, 1954.


STRAIT OF GEORGIA
NEW WESTMINSTER DISTRICT
NANAIMO DISTRICT
1943000
5450000
NANAIMO
GABRIOLA ISLAND
VANCOUVER ISLAND
DENMAN ISLAND
HORNBY ISLAND
VALDES ISLAND
GALIANO ISLAND
MAYNE ISLAND
SALTSPRING ISLAND
PENDER ISLAND
SATURNA ISLAND
HOWE SOUND
BOWEN ISLAND
BURRARD INLET
VANCOUVER
West Vancouver
North Lonsdale
Capilano
Lower Capilano
Dundarave
Horseshoe Bay
Eagle Harbour
Caulfeild
Seymour Landing
Gibsons Landing
Roberts Creek
Wilson Creek
Trail Bay
Trail Is
Williamsons Landing
New Brighton
Gambier Harbour
Hopkins Landing
Granthams Landing
Keats Island
Gower Pt
Pasley Island
Bowen Island
Departure Bay
Northfield
Newcastle Island
Protection Fy
Gallows Pt
Jack Pt
Neck Pt
Five Finger
Hudson Rocks
Lagoon Hd
Horswell Bluff
Jesse I
Snake I
Entrance I
Tinson Pt
Orlebar Pt
Malaspina Pt
Gabriola
Flat Top Islands
Harmac
Chase River
Extension
South Wellington
Cedar
Cassidy
Nanaimo
Ladysmith
Yellow Pt
Storms
Brenton
Mt Hayes 1485
Ivy Green Prov Park
Cranberry Dist
Douglas
Bright Dist
Cedar Dist
Oyster Dist
Oyster
Logging
Woodley Range
Pylades
Ruxton Island
Blackberry Pt
Shingle Pt
Danger Reefs
Miami Islet
Ragged Islets
Pilkey Pt
Deer Pt
Fraser Pt
Cardale Pt
Dionisio Pt
Galiano
Thetis I
Reid
Breakwater Island
Kendrick I
Round
Link
Dibuxante Pt
Reynolds Pt
De Courcy I
Sand Heads
Steveston
Eburne
Sea Island
Ulu Island
Brighouse
Westham Island
Fort Guichon
Tsawwassen
Beach Grove
Boundary Bay
Point Grey
Point No Point
Point Atkinson
Sisters Islets
Worlcombe I
Popham I
Hermit I
Ragged I
Preston I
Keats I
Cotton Pt
Halkett Pt
Hope Pt
Carmelo Pt
Mission Pt
White Islets
Rock Point
Roberts Creek Provincial Park
Smugglers Cove
Killarney Lake
Tunstall Bay
Deep Bay
Grafton Bay
Hutt I
Cape Roger Curtis
Point Cowan
Queen Charlotte Channel
Sherman
Navvy Jack Pt
Prospect Pt
Ferguson Pt
English Bay
Stanley Park
Lynnmour
Mt Strachan
Hollyburn Mtn
Black Mtn 3992
Crown Mtn
Goat Mtn
The Lions
Mt Fromme
Mt Gardner
Elphinstone
Soames Hill
Stony Hill
Wellington 4m Parksville 20m To Courtenay
Nanaimo Lakes Rd
Duke Pt
Harwood I
Round I
Mudge I
Joan Pt
Rainbow Channel
Fairway Channel
Northumberland Channel
Dodd Narrows
Porlier Pass
Trincomali Channel
Pylades Channel
Stuart Channel
Sansum Narrows
Satellite Channel
Active Pass
Houstad Channel
Georgeson Passage
Canoe Pass
Swanson Channel
Wallace Strait
Hotham Sound
Pender Harbour
Jervis Inlet
Sechelt Inlet
Salmon Inlet
Agamemnon Channel
Thormanby I
Halfmoon Bay
Secret Cove
Selma Park
Gambier I
Keats I
Bowen I
Gambier Pt
Hutt I
Grafton Bay
Deep Bay
Tyee
Lake
Dam
Canada
COWICHAN DISTRICT
WELLINGTON DISTRICT
MOUNTAIN DISTRICT
49°00'
124°00'
15'

WORKSHEET

IDTO 10954-02

(1) ORIGIN x 10499500

y 5452000

(5) Standard Error S_x

$\sigma = 200$

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

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(11) $\phi =$