A

TORNADO PROJECT SUMMARY SHEET

F=0

1. DATE AND TIME: Sunday July 1 '62

2. LOCATION OR PATH (attach map): Vancouver (Sea Island) BC

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.): hail

10. TOTAL DAMAGE ESTIMATE: $ 0

11. TOTAL DEATHS: 0

12. TOTAL INJURED: 0

13. TOTAL HOMELESS: 0

14. LIST ALL REFERENCES

Vancouver Sun July 3 '62

Daily Province July 3 '62

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

- seen by Wx observer at YVR
- moved SW to NE lasting approx 5 minutes
- unconfirmed reports stated the funnel was 30 feet in diameter
- hail was reported in other areas

WORKSHEET

IDTO 10962-01

① ORIGIN x_0 10485500

y_0 5448500

⑤ Standard Error S_x

$C = 200$

② LIFT-OFF x_1 10487500

y_1 5453000

⑥ Standard Error S_y

$C = 200$

③ $(x_1 - x_0) =$ 2000

④ $(y - y_1) =$ 4500

⑦ DAMAGE LENGTH

$L = [(x_1 - x_0)^2 + (y - y_1)^2]^{1/2}$

③+④ [→ r, θ] = 4924

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

[x ↔ y] = 66

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

⑤+⑥ [→ r, θ] = 283

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

⑦+⑨ [→ r, θ]

[x ↔ y] = 3

NE quad $\phi = 90 - \alpha$

NW quad $\phi = 270 + \alpha$

SE quad $\phi = 90 + \alpha$

SW quad $\phi = 270 - \alpha$

⑪ ϕ = 204

(6) Time, date & location of occurrence - afternoon of July 1, 1962 in the western section of Richmond and South Vancouver.

No injuries were reported but considerable damage occurred, such as smashed greenhouse panes, a barn roof demolished, construction scaffolding and tarpaulins torn loose, and shingles ripped off dwellings.

The funnel cloud was observed by the Weather Observer at the Vancouver International Airport as it moved from Sea Island across the north arm of the Fraser River into the flats between Marine Drive and the north arm of the Fraser. Movement was from the southwest to the northeast. The twister lasted for approximately 5 minutes, dissipating soon after it moved onto the river flats. Unconfirmed reports stated the funnel was approximately 30 feet in diameter.

Atmospheric conditions were most unstable this day as violent thunderstorms, severe hail storms and torrential rains were reported in many parts of the Fraser Valley as far east as Mission. The Lulu Island section of Richmond bore the brunt of the storm with vegetable and flower crops being beaten to shreds.

This tornado was reported in the Vancouver Sun and the Province on July 3, 1962.

Sunday July 1st 82

The Vancouver Sun

July 3, 1962

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FIVE-MINUTE TWISTER

Midget Tornado Strikes At Richmond, Vancouver

A midget twister ripped parts of Richmond and South Vancouver for about five minutes Sunday afternoon.

It smashed greenhouse windows, tore tarpaulins off a construction project and demolished part of a barn roof on the flats between Marine Drive and the Fraser River in Vancouver.

Then it ambled off into the northeast and disappeared.

A weather observer watched the tornado cloud and funnel from his Sea Island weather base.

SPRAYS WATER

He said he saw the outline of the funnel clearly, as dust and debris swirled up into the black clouds above.

"It was definitely a tornado but a very small one," he said. "As far as I know the funnel touched only a small area and only for about five minutes."

E. J. Murray, a nursery owner at 7376 Blenheim, said the twister moved across the Fraser River from Sea Island.

"It picked up water from the river and sprayed it around, then tore a couple of tarpaulins off a ship under construction," he said.

SOME IN PAST

"As it passed over my place (about 150 yards from the Fraser's north bank) it banged two large wooden frames together and sent debris crashing through the windows of my new greenhouse."

Murray said the funnel was only 30 feet in diameter near the ground. He said the tornado ripped the shingles from the roof of a neighbor's barn at 7276 Blenheim, before disappearing.

There were no other reports of damage in the Vancouver area.

Tornadoes in this area are rare, said the weatherman.

"A few years ago one passed through Burnaby and over the years we've had other reports of them," he said. "But this might be the first time the funnel has actually touched ground and caused damage."

He said the twister was caused by an unstable airmass west of Vancouver.

While the twister twisted over the Fraser River, hail fell on parts of Lulu Island and the lower Fraser Valley.

Lulu Island took the brunt of the storm with stones as big as three-quarters-of-an-inch in diameter, but reports of hail came from as far away as Mission.

The Daily Province

July 3, 1962

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Tornado picks, chooses in Sea Island sweep

A tornado and scattered hailstorms were mixed with generally good weather on the Lower Mainland during the Canada Day holiday weekend.

The tornado, described by the weather office as minor, swept across the Blenheim Flats on Sea Island and across the Fraser River in South Vancouver on Saturday. It lifted a small barn off the ground on Sea Island and smashed the glass in some greenhouses on the Vancouver side of the river. No one was injured.

A weather office spokesman said the tornado moved from southwest to northeast and touched the ground for only a short time.

He said the vortex of the swirling current was apparently about 30 feet wide. It left untouched two small buildings close to the barn.

Scattered hailstorms were reported throughout the Lower Mainland, with a much as three-quarters of an inch falling in places.

The weatherman said the hail and the tornado were caused by upward swinging air currents in the generally unsettled conditions throughout the weekend.

Meanwhile a violent storm with some hailstones the size of golf balls and dropping up to five inches of rain hit the Rosthern farming area of north-central Saskatchewan.

Many residents described the lashing storm as "the worst in many years" but there was no estimate of damage.

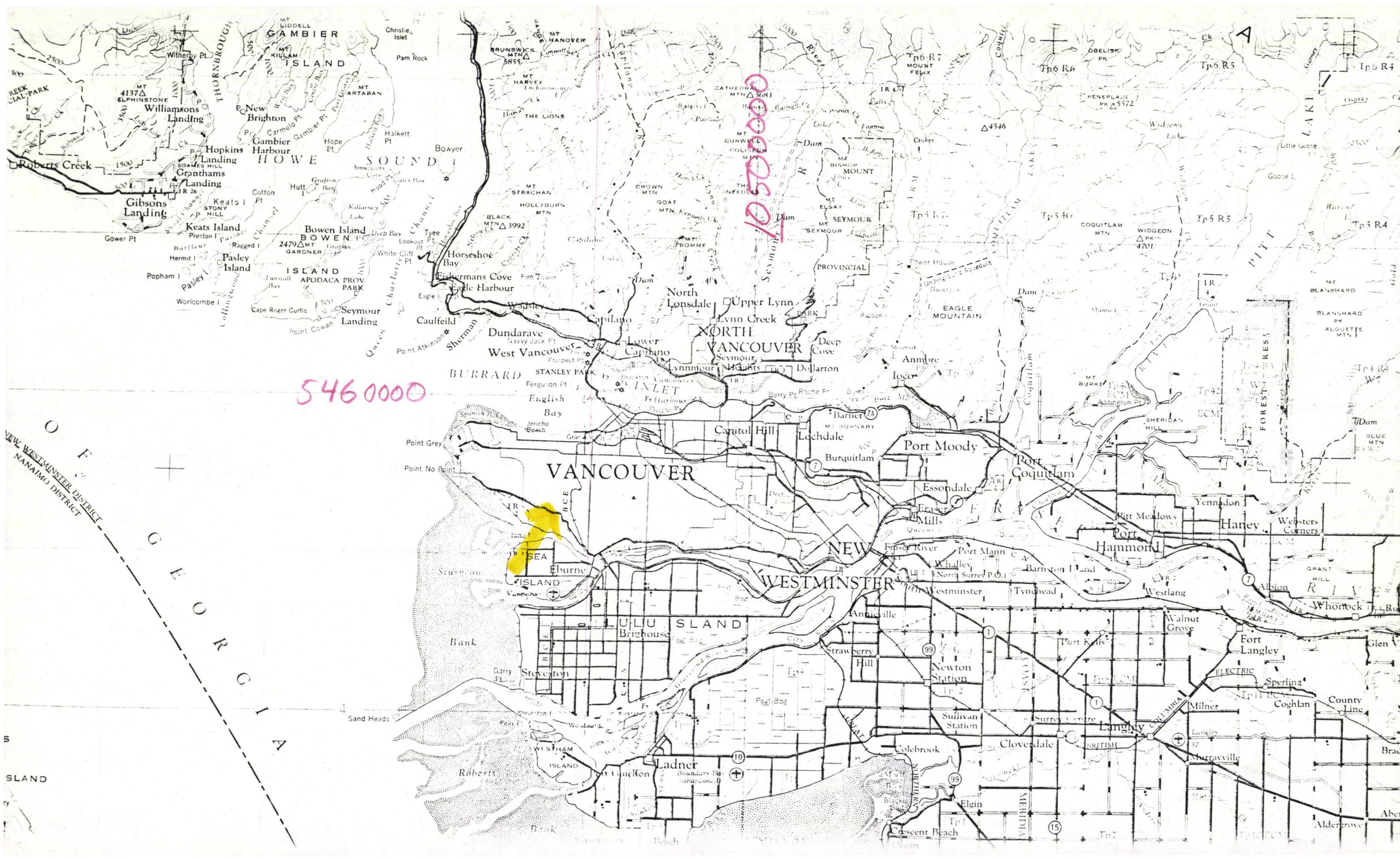
An area about 40 miles by 20 miles from 10 miles west of Rosthern to MacDowall on the north, Wakaw on the east and Saskatoon on the south was hit by 2½ to five inches of rain. MacDowall is 15 miles southwest of Prince Albert and Wakaw 40 miles south.

Highway 11 between Saskatoon and Rosthern, 40 miles north of Saskatoon, had slices out of its shoulders and there were several washouts. Ditches were full of water and fields resembled lakes.

A Prince Albert motorist said his windshield wipers could not keep the glass clear of water and he was forced to stop.

In Alberta Monday more than an inch of rain fell in the Red Deer region. It tapered off to one-half inch at Calgary to the south and Edmonton to the north.

The public weather office at Edmonton forecast that the unsettled weather will persist in Saskatchewan today but more settled conditions will return to Alberta.



GAMBIER ISLAND
Williamsons Landing
New Brighton
Gambier Harbour
Hopkins Landing
Granthams Landing
Gibsons Landing
Roberts Creek
HOWE SOUND
Keats Island
Bowen Island
Pasley Island
Horseshoe Bay
Eagle Harbour
Caulfeild
Dundarave
West Vancouver
Capilano
Lower Capilano
North Lonsdale
Upper Lynn
Lynn Creek
NORTH VANCOUVER
Deep Cove
Dollarton
Lynnmour
Seymour Heights
Anmore
Ioco
BURRARD INLET
English Bay
Point Grey
Point No Point
VANCOUVER
Capitol Hill
Lochdale
Burquitlam
Port Moody
Port Coquitlam
Essondale
Fraser Mills
Port Mann
Whalley
Barnston Island
Tynehead
Westlang
Pitt Meadows
Port Hammond
Haney
Yennadon
Websters Corners
Albion
Whonock
Fort Langley
Walnut Grove
Port Kells
Sperling
Coghlan
County Line
Milner
Langley
Murrayville
Cloverdale
Colebrook
Elgin
Crescent Beach
Aldergrove
Newton Station
Strawberry Hill
Annieville
NEW WESTMINSTER
Fraser River
Eburne
SEA ISLAND
ULU ISLAND
Brighouse
Steveston
Ladner
Port Guichon
Sand Heads
Roberts Bank
WESTHAM ISLAND
Sturgeon Bank
NEW WESTMINSTER DISTRICT
NANAIMO DISTRICT
GEORGIA
5460000
10500000