A

TORNADO PROJECT SUMMARY SHEET

F = 0

B.C.

1. DATE AND TIME April 23, 1973 early afternoon

2. LOCATION OR PATH (attach map)
Duncan vicinity (moved in from the south, did a U-turn and disappeared in the south)

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

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; THUNDER-LIKE NOISE MADE BY THE TORNADO

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

10. TOTAL DAMAGE ESTIMATE $ U 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS U

14. LIST ALL REFERENCES
Victoria Daily Colonist April 24, 1973

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

(a) "The twister moved in from the south".

(b) Hit a mobile home park. A carport ripped loose, whirled in the air and dumped on a car

(10)

Time, date & location of occurrence - early afternoon on April 23, 1973 in the vicinity of Duncan, B.C.

This brief tornado struck a section of a mobile home park, causing some property damage but no personal injuries. A carport, which was anchored in the ground was ripped loose, whirled in the air and then the twisted wreck was dumped on a car. A small structure attached to a trailer also was lifted off the ground and carried into a nearby field. One witness remarked on the "thunder-like" noise created by the tornado. The twister moved in from the south, did a U-turn over part of the mobile trailer park and then disappeared to the south. A 40 year resident of the area said he had never heard of a tornado hitting the Cowichan Valley.

The Victoria Daily Colonist reported this tornado on April 24, 1973.

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Twister Wrecks Duncan Carport But No One Hurt

By KLAUS MUENTER
Colonist Correspondent

DUNCAN — Although nobody was hurt, people who saw it will never forget the freak twister that hit a part of the Allenby Mobile Home Park on Allenby Road early Monday afternoon.

It happened about 2 p.m. and it happened so fast that people even half an hour later were still startled and somewhat shaken, and no one could say how long it lasted.

Mr. and Mrs. Elvin Leeper were sitting inside their mobile home when it struck. "It was like a storm. I looked out of the window and suddenly our neighbor's TV antenna buckled and then our carport flew off the ground. I was scared," said Mrs. Leeper.

The carport — which was solidly anchored in the ground on concrete pads — is now a twisted piece of wreckage. But before it landed, partly on the Leeper family car, it was seen by Mary Best twirling in the air above her head. She was out for a walk with her grandson when the twister came from the south and then disappeared in that direction.

"I have never seen anything like it. Suddenly everything was in the air and then came down like thunder. It was as if somebody had been sweeping and thrown everything into the air," Mrs. Best said.

Fearing that the flying carport would hit them she and her grandson ran for cover under a large maple tree not too far away.

Her husband had been asleep in their mobile home next to the Leepers, but the twister woke him up. He thought it had made a U-turn right over their section of the mobile home park. A small structure attached to another trailer also was lifted off the ground and carried into a nearby field.

Mrs. Ambrose Casagrande was vividly reminded of the 1962 twister that hit North Vancouver and she remembers part of the roof of their house having been carried as far as three blocks away at that time. "It was just like a prairie twister," she said of the Duncan happening.

Tim Kilpatrick who has lived in town for 40 years, said he had never heard of a twister hitting the Cowichan Valley. In other Duncan areas, people like Kilpatrick were unaware of the small but powerful whirlwind that caused damage ranging from several hundred to a few thousand dollars.

WORKSHEET

IDTO 10973-01

① ORIGIN x 10446000
y 5403000

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 [→ r, θ] =

[x ↔ y] =

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

⑤+⑥ [→ r, θ] =

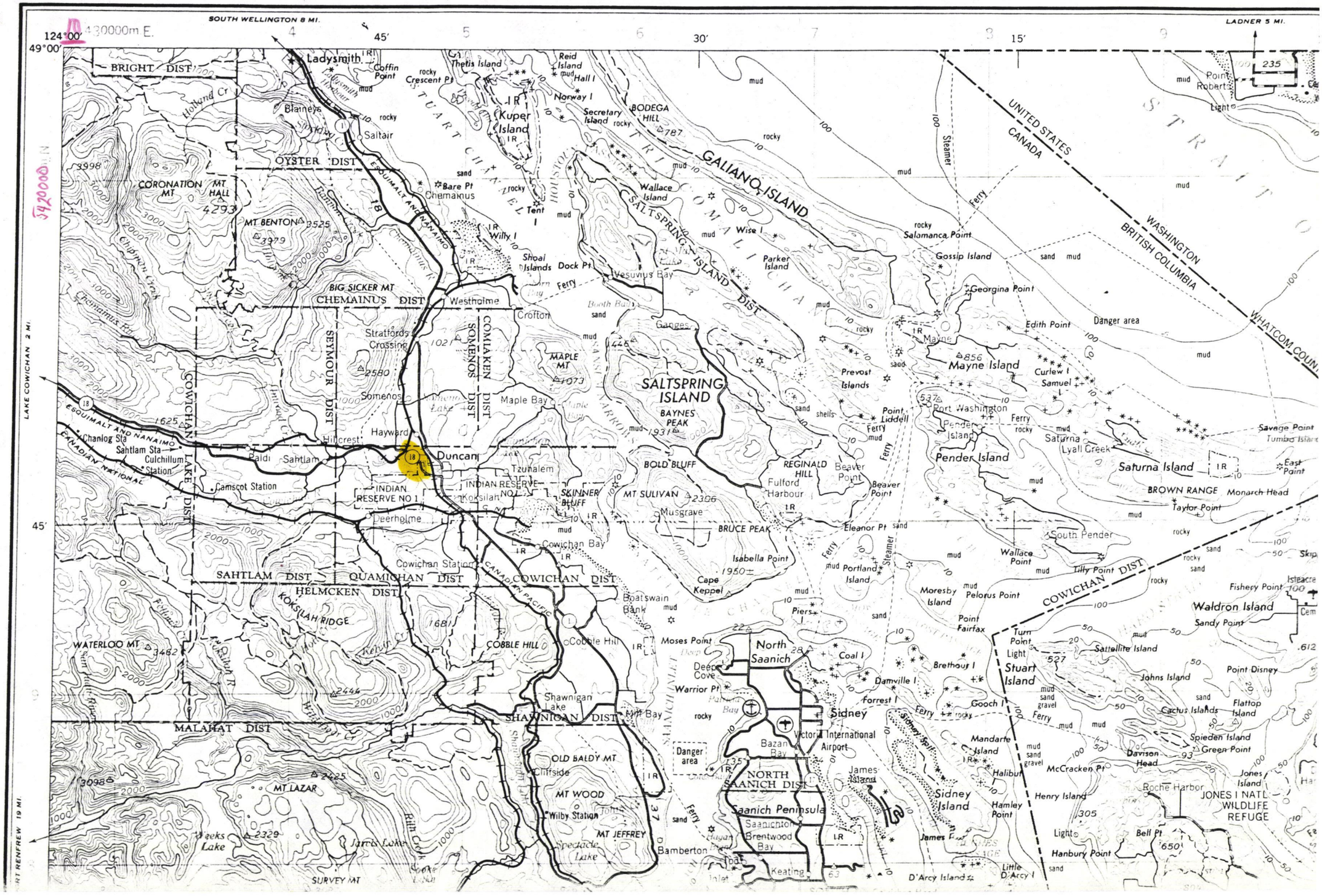
⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

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 =


SOUTH WELLINGTON 8 MI.
LADNER 5 MI.
124°00'
430000m E.
49°00'
4420000m N.
45'
30'
15'
LAKE COWICHAN 2 MI.
MT RENFREW 19 MI.
Ladysmith
BRIGHT DIST
Holland Cr
Blaineys
Saltair
OYSTER DIST
CORONATION MT
MT HALL 4293
MT BENTON 3525
3998
3979
Chemainus R.
Chemainus
Bare Pt
Willy I
Shoal Islands
Dock Pt
Thetis Island
Kuper Island
Reid Island
Hall I
Norway I
Secretary Island
BODEGA HILL 787
GALIANO ISLAND
Wallace Island
SALTSPRING ISLAND DIST
Parker Island
Vesuvius Bay
Wise
Salamanca Point
Gossip Island
Georgina Point
Edith Point
Danger area
Mayne
Mayne Island 856
Curlew I
Samuel I
Prevost Islands
Point Liddell
Port Washington
Pender Island
Saturna
Lyall Creek
Saturna Island
Savage Point
Tumbo Island
East Point
BROWN RANGE
Monarch Head
Taylor Point
South Pender
Wallace Point
Eleanor Pt
Portland Island
Moresby Island
Pelorus Point
Fishery Point
Waldron Island
Sandy Point
Point Fairfax
Turn Point Light 527
Stuart Island
Satellite Island
Johns Island
Point Disney
Cactus Islands
Flattop Island
Spieden Island
Green Point
Davison Head
McCracken Pt
Mandarte Island
Halibut
Gooch I
Brethour I
Damville I
Forrest I
Coal I
Piers
Isabella Point
Cape Keppel
Musgrave
BRUCE PEAK
MT SULIVAN 2306
BOLD BLUFF
REGINALD HILL
Fulford Harbour
Beaver Point
SALTSPRING ISLAND
BAYNES PEAK 931
Maple Bay
Somenos
Stratfords Crossing
Crofton
Ganges
MAPLE MT 1073
SEYMOUR DIST
SOMENOS DIST
COMLAKEN DIST
COWICHAN LAKE DIST
Hillcrest
Hayward
Duncan
Tzuhalem
Chanlog Sta
Sahtlam Sta
Culchillum Station
Lamscot Station
Baldi
Sahtlam
ESQUIMALT AND NANAIMO CANADIAN NATIONAL
INDIAN RESERVE NO 1
INDIAN RESERVE NO 2
SKINNER BLUFF
Deerholme
Cowichan Bay
Cowichan Station
CANADIAN PACIFIC
SAHTLAM DIST
QUAMICHAN DIST
COWICHAN DIST
HELMCKEN DIST
KOKSILAH RIDGE
WATERLOO MT 3462
COBBLE HILL
Cobble Hill
Boatswain Bank
Moses Point
Deep Cove
Warrior Pt
North Saanich
Sidney
Victoria International Airport
Bazan Bay
Patricia Bay
SAANICH INLET
Shawnigan Lake
SHAWNIGAN DIST
MALAHAT DIST
OLD BALDY MT
Cliffside
MT WOOD
Wilby Station
MT JEFFREY
Spectacle Lake
Bamberton
MT LAZAR 2425
3098
Weeks Lake 2329
Jarrit Lake
Rith Creek
SURVEY MT
Danger area
NORTH SAANICH DIST
Saanich Peninsula
Saanichton
Brentwood Bay
Keating
James Island
Sidney Island
Roche Harbor
JONES I NATL WILDLIFE REFUGE
Henry Island
Hamley Point
Hanbury Point
Bell Pt
D'Arcy Island
Little D'Arcy I
Ferry
Steamer
UNITED STATES
CANADA
WASHINGTON
BRITISH COLUMBIA
WHATCOM COUN
STRAIT OF GEORGIA