Coded ✓ Apr 22, 1980 Wgm

A

TORNADO PROJECT SUMMARY SHEET

F=0

ONT

1. DATE AND TIME FRI AUG 24, 1979 1830 EDT

2. LOCATION OR PATH (attach map)

LONDON (SW-NG)
0979-16

(FUNNEL OBD VCNTY SARNIA SOUND AT 1340 EDT VCNTY HWY 21 & HWY 6, heading N)

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

4. PATH WIDTH 80 YDS 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.)

Funnel estimated to be about 6 to 8 meters in diameter.

10. TOTAL DAMAGE ESTIMATE $ 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES

Report by M.J. Newark, Aug 25, 1979
Report on: Byron Tornado Damage and Track 29 August, 1979 by Gregg Crocker, Ontario Weather Centre, Aug 29, 1979
LONDON FREE PRESS, AUG 25, 1979

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

(a) a "long thin column" like a skipping rope.

(b) Trees blown down, small debris thrown through the air. Sign from a gasoline station removed and carried approximately 1/2 mile. Garden shed demolished and greenhouses wrecked with glass flying outwards.

STORM DATE. Friday August 24, 1979. 1834 EDT

LOCATION London, Ontario (SW to NE)

PATH LENGTH

PATH WIDTH

Synoptic Situation

During the day an occluded low in the vicinty of Jamesbay was moving slowly northwards. A dry mA airmass was pushing across the Great Lakes and by 250000GMT the cold front stretched from the Bruce Peninsula to the vicinity of London to the vicinity of Cleveland.

Weather radars at Exeter and Woodbridge showed isolated cells beginning to form around 1500 GMT in advance of the front. By 1700 GMT enough of them had formed over the western slopes of the Lake Huron highlands to indicate a rudimentary N to S line. At 1740Z a funnel cloud was sighted at the junction of Hwy 21 and Hwy 6, Owen Sound. It did not touch down and was reported heading northwards. Inspection of the radar pictures showed that it was associated with an echo which was only a few minutes old.

By the time the tornado in London was reported, more cells had developed, fleshing out the line, although it was still only one cell in width with spaces of 15 to 20 km between each cell on the average.

The tornado parent cell had a continuous lifetime of 3 hrs and 40 minutes, moving from 236° at 37 km/h. It formed northeast of Chatham, and the tornado in London was reported 50 minutes before the cell finally dissipated. Maximum radar tops were about 10 to 11 km . There was no clue that would single out this cell from any other as being tornadic.

Telephone Discussion with Dave McCarter, tornado eyewitness

Aug 25, 1979, M.J.Newark.

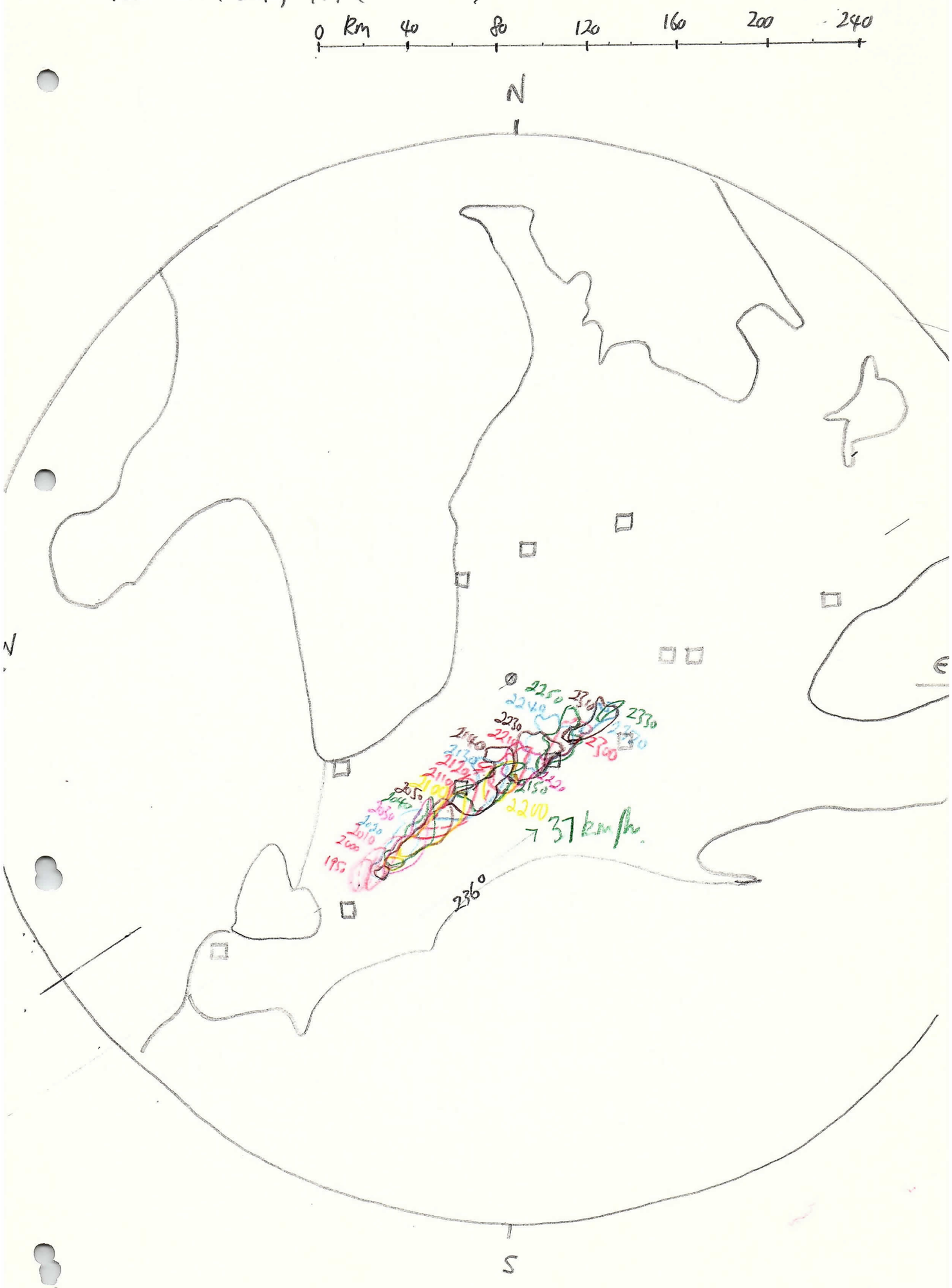
Mr McCarter, a ham radio operator and scuba diver lives on Hibiscus Ave., London, midway between Kelly and Plantation. He works at Fanshaw College.

He was looking SSE over some trees and noticed the clouds were moving quickly but without rotation when he noticed what looked like a large flock of birds circling. As it came closer he realized that it was actually leaves and debris that was circling about 100 - 200 yards away. The leaves on trees nearby almost totally still yet the clouds overhead were moving very rapidly. Next he saw what looked like a long thin column (like a skipping rope) rising from the earth to the clouds. It was grey in colour. The wind began to blow and his home-made anemometer on the radio tower began registering 120 km/h (it seemed to be fairly accurate he said, in comparison to London weather office readings). He took his pregnant wife to the basement, hearing a crack as an 8" diameter maple tree fell outside. He broadcast a warning on his rig downstairs and noticed that the time was 1834 EDT. He sensed a pop in his ears as the pressure fell.

Coming up quickly from the basement he saw a thicker funnel moving over the city. All the neighbours were out looking at the sky. Damage was light at his location, but west about 1 mile, at Byron and Springbank Park, a number of big oaks and maples were toppled. It also took the glass out of greenhouses on Riverside. It touched down at Commissioner's Rd in Byron, South of the Thames bridge.

The tornado was travelling eastwards. He saw it for a total time of about 4 minutes from first sighting to last glimpse of it retreating over the city.

EXETER SCEPTRE
FRI AUG 24, 1979 (TIMES GMT)



124 km

240100 RENEW SIGMET N GONBA
240125 SIGMET RE WW 91

24024 Cancel WW 91
TSTMS MUD END + WKND

Watch cancelled at 1:00 am.

At 4:40 am EDT based on ship report and Exeter radar which showed very rapid development of cell over Lk Erie with hook-like appendage, a marine severe WX warning issued for the area from 17 N.mi north of Ashtabula to Long Point.

7:55 a.m. LONDON WX OFFICE INFORMED SOME DAMAGE IN BYRON AND ADJACENT SOUTH PART OF CITY. HEAVY RAINFALL AND GUSTY WINDS. SUE [illegible] MCALPINE AT [illegible] ISSUED AT START OF.
7:40 a.m. JOHN BURGSTRE PHONED TO INFORM FUNNEL CLD SIGHTED BY MR. DAVE MCCARTER IN OAKRIDGE AREA Ph # 472-1437. WIND GUSTS TO 120 KMH - DEBRIS SPINNING AROUND AND SEVERAL TREES DOWN.

measured by home anemometer!

KS
170
ATTN ALL STATIONS
AT 2240 TORMADO OBSERVED IN THE NORTHWEST SECTION OF
THE CITY OF LONDON. FUNNEL 6-8 METERS ACROSS WIND MEASURED IN EX
CESS OF 120 KILOMETERS PER HOUR. DAMAGE TO TREES HOMES CARS AND P
OWER LINES.
LONDON WEATHER OFFICE 242349

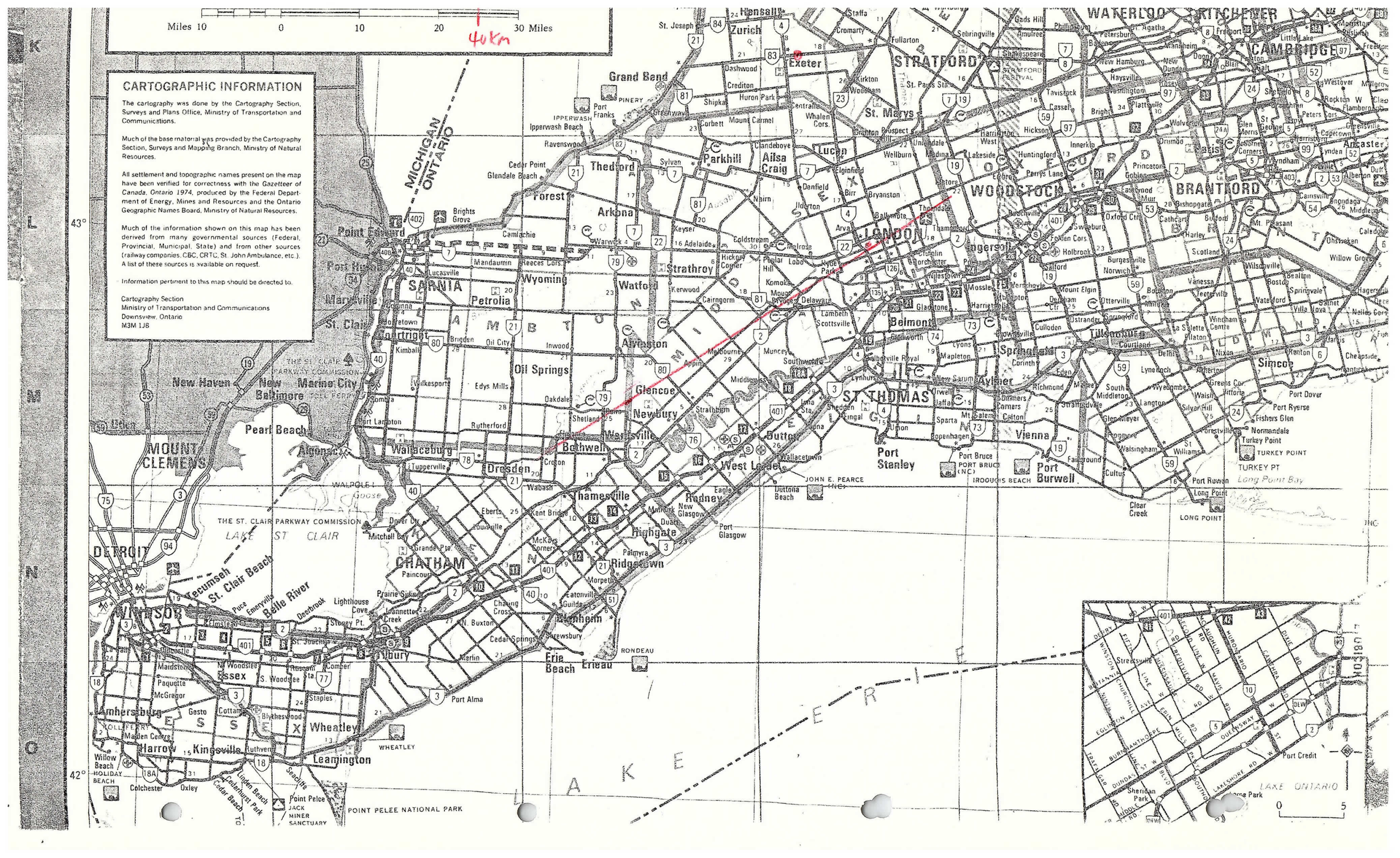
Times GMT

TS
170
SVC
YVV 1
REPORT FROM PUBLIC OF FUNNEL CLOUD (ALOFT) APROX POSITION HIGHWAYS 21 AND HIGHWAY 6 AT 1740Z HEADING NORTH

AUG 24, 1979

i.e. ~~near Allenford~~

Ambiguous. There are 2 junctions of Hwy 21 & 6.
One in Owen Sound & one 2km E of Allenford.


Miles 10 0 10 20 30 Miles
40Km
CARTOGRAPHIC INFORMATION
The cartography was done by the Cartography Section, Surveys and Plans Office, Ministry of Transportation and Communications.
Much of the base material was provided by the Cartography Section, Surveys and Mapping Branch, Ministry of Natural Resources.
All settlement and topographic names present on the map have been verified for correctness with the Gazetteer of Canada, Ontario 1974, produced by the Federal Department of Energy, Mines and Resources and the Ontario Geographic Names Board, Ministry of Natural Resources.
Much of the information shown on this map has been derived from many governmental sources (Federal, Provincial, Municipal, State) and from other sources (railway companies, CBC, CRTC, St. John Ambulance, etc.). A list of these sources is available on request.
Information pertinent to this map should be directed to.
Cartography Section
Ministry of Transportation and Communications
Downsview, Ontario
M3M 1J8
MICHIGAN
ONTARIO
LAKE ERIE
LAKE ST CLAIR
LAKE ONTARIO
THE ST. CLAIR PARKWAY COMMISSION
POINT PELEE NATIONAL PARK
JACK MINER SANCTUARY
JOHN E. PEARCE (NC)
PORT BRUCE (NC)
TURKEY POINT
LONG POINT
WALPOLE I.
Goose
Grand Bend
Exeter
Zurich
Hensall
St. Joseph
Staffa
Cromarty
Fullarton
Sebringville
STRATFORD
Gads Hill
Amulree
Shakespeare
Petersburg
St. Agatha
WATERLOO
KITCHENER
CAMBRIDGE
Freeport
Littles Lake
New Hamburg
New Dundee
Haysville
Doon
Blair
Preston
Hespeler
Westover
Rockton W
Flamborough
Dashwood
Crediton
Shipka
Huron Park
Woodham
Kirkton
St. Pauls Sta
Tavistock
Cassel
Bright
Plattsville
Wolverton
Drumbo
Ayr
Paris
Cainsville
Brantford
Onondaga
Middleport
Mount Pleasant
Oakland
Scotland
Burford
Oxford Ctr
Princeton
Gobins
Eastwood
Muir
Bishopsgate
Cathcart
Harley
Willow Grove
Ohsweken
Caledonia
Hagersville
Nelles Corners
Cheapside
Jarvis
Fisherville
Port Dover
Port Ryerse
Fishers Glen
Normandale
Turkey Point
TURKEY PT
Long Point Bay
Port Rowan
Clear Creek
Vienna
Port Burwell
Fairground
Cultus
Port Stanley
Port Bruce
IROQUOIS BEACH
Dutton
Dutton Beach
West Lorne
Wallacetown
Eagle
Rodney
New Glasgow
Port Glasgow
Highgate
Ridgetown
Morpeth
Thamesville
Kent Bridge
Mitchell Bay
Dover Ctr
Louisville
Eberts
Wabash
Croton
Dresden
Tupperville
Wallaceburg
Bothwell
Watford
Strathroy
Wyoming
Petrolia
SARNIA
Point Edward
Port Huron
Marysville
St. Clair
Courtright
Kimball
Brigden
Oil City
Inwood
Alvinston
Oil Springs
Edys Mills
Oakdale
Glencoe
Shetland
Newbury
Rutherford
Port Lambton
Pearl Beach
Algonac
MOUNT CLEMENS
New Haven
New Baltimore
Marine City
Combra
Walkerton
Arkona
Forest
Thedford
Grand Bend
Port Franks
Ipperwash
Ipperwash Beach
Cedar Point
Glendale Beach
Ravenswood
Brights Grove
Camlachie
Reeces Corners
Lucasville
Warwick
Keyser
Adelaide
Coldstream
Hickory Corner
Kerwood
Cairngorm
Delaware
Arva
Ilderton
Denfield
Birr
Bryanston
Nairn
Parkhill
Ailsa Craig
Clandeboye
Lucan
Wellburn
Elginfield
Sylvan
Corbett
Mount Carmel
Whalen Corners
Crediton
Dashwood
Shipka
Huron Park
Greenway
Centralia
Prospect Hill
Crediton
Woodham
St. Marys
Harrington West
Hickson
Innerkip
Huntingford
Perrys Lane
Lakeside
Madina
Wellburn
Ilderton
Nairn
Bryanston
Birr
Denfield
Elginfield
Sylvan
Parkhill
Ailsa Craig
Clandeboye
Lucan
Arva
Poplar Hill
Lobo
Hyde Park
Komoka
Mount Brydges
Delaware
Lambeth
Scottsville
Melrose
Appin
Middlesex Centre
Muncey
Southwold
Melbourne
Inwood
Alvinston
Oil City
Brigden
Kimball
Courtright
Port Lambton
Rutherford
Edys Mills
Oakdale
Shetland
Newbury
Strathburn
Glencoe
Wardsville
Bothwell
Croton
Wallaceburg
Tupperville
Dresden
Wabash
Eberts
Louisville
Dover Ctr
Mitchell Bay
Kent Bridge
Thamesville
Mandaumin

Report on: Byron Tornado Damage and Track

24 August, 1979

The damage track of the August 24 tornado in London, Ontario, begins in Byron, a suburb on the southwest edge of the city. Damage first appears on the north side of Base Line Road just west of Griffith Street (location A on the map). Here a large tree, approximately 2 feet in diameter was snapped off and blown down onto two cars parked in the driveway. Eyewitnesses reported that the tree began falling in northeasterly direction and was then twisted towards the north, coming to rest in a northerly direction. There was no apparent damage to any of the other trees, or buildings in the immediate area.

The tornado then tracked to the northeast across Reynolds Street, (B) where numerous small branches had been broken off of trees and the front door of one house on the east side of the street was slightly damaged.

Again on Stephen Street (C) many small branches were broken, and the London Free Press reported that a backyard tool shed had been demolished.

On Brock Street (D) more small branches had been broken. There was also a newspaper report of an awning blown down the street, and a matress from some lawn furniture lodged up on a telephone pole, but these had since been cleaned up.

From here, the tornado continued to track to the northeast. At the southwest corner of Boler, and Commissioners Road (E) a large tree had been badly damaged. Also, the sign from Shell station had been removed and carried across the Thames River to location 'G', approximately 2700 feet to the northeast .

In Springbank Park (location F) many large tree limbs had been broken off. One very large hollow tree, about 5 ft in diameter was completely destroyed. It was on the left side of the damage track and had been blown down in a southerly direction. At least one large conifer had been completely uprooted, and many small trees and bushes showed signs of wind stress. Numerous 4' x 8' x ½" plywoods sheets from an apartment construction site had been carried to the northeast. One of these had been carried across the river and deposited not far from the green houses at location 'G'. Another sheet was found implaed on a broken limb. The damage track through this area appeared to be about 80 yards in width.

The tornado then proceeded across the river and over the greenhouses at 1205 Riverside (G). Most of the green houses at this location were badly damaged. The glass had been blown outward, and generally to the east and northeast. They, also, incurred some structural damage, the frames being bowed outward. The flying glass dug gouges in a wooden barn door adjacent to the greenhouses, and nails on the roof of the barn had raised 1 to 2 inches by the metal roofing material itself, which had been lifted by the suction, but not completely removed.

From the greenhouses, the tornado began curving to an eastnortheasterly direction. The next sign of damage is in Oakridge acres, another suburb of London. London City Police reported damage to the front porch of a house at 502 Everglade (H), however, the damage appeared to be minor.

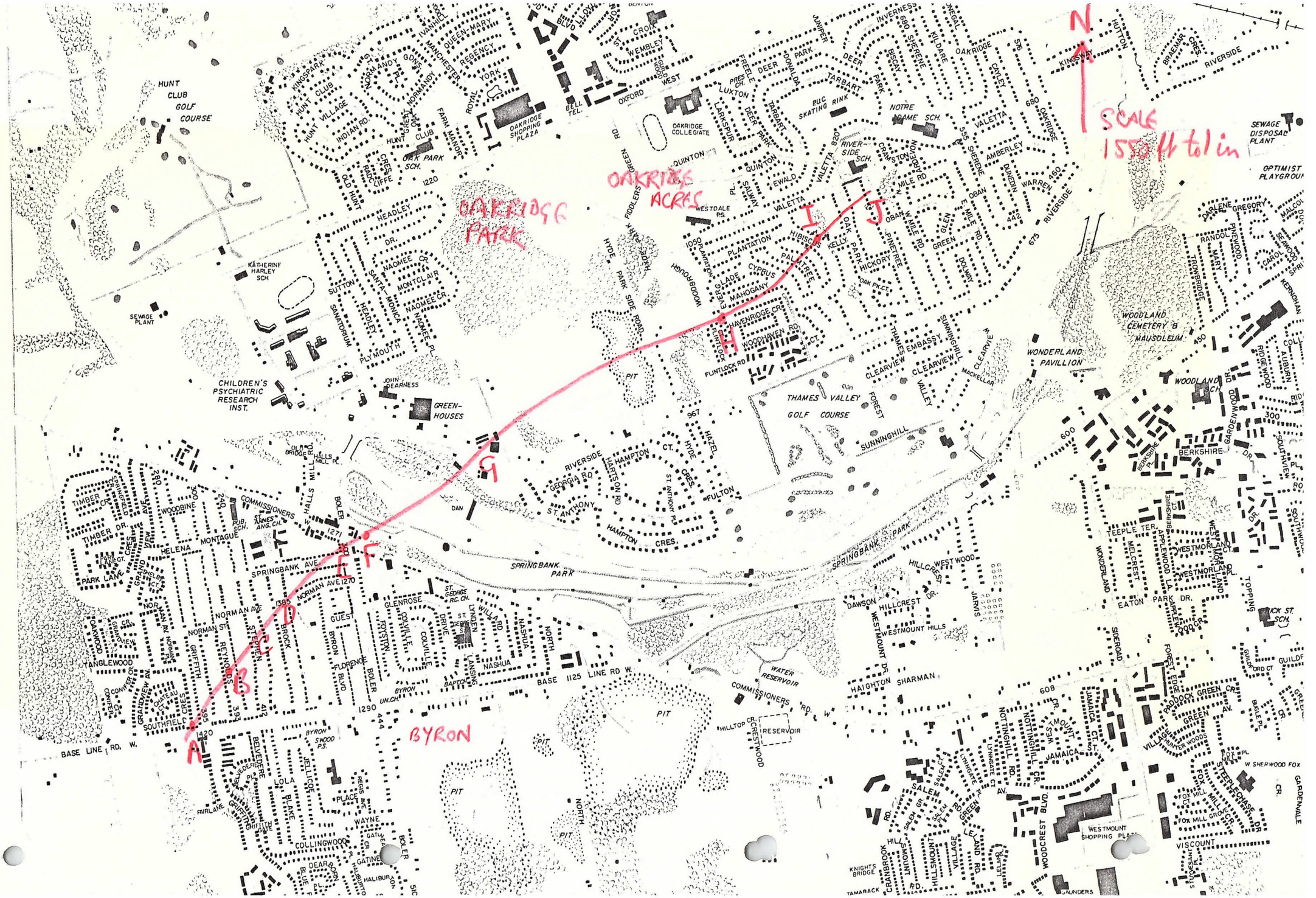
The next visible sign of damage along the track occurred on Hibiscus Street, where one tree with a trunk diameter of about 5-6 inches was snapped off a yard above the surface (I). Dave McCarter, the owner, reported there was some thunder and a small amount of rain prior to the tornado. He also described seeing clouds which were probably mammatus. At about 6:25 pm, looking 15° south of west, he saw large leaves which looked like birds, swirling up near the clouds. The surface winds were calm, and winds aloft were quite strong. The base of the cloud was swirling in a counterclockwise direction and he reported hearing a roaring sound. After observing for about 15 sec., a light grey-blue wisp of cloud came down from the centre of the swirling, it appeared to be between 100 and 200 yards away. After feeling a sudden rush of air he went downstairs into the basement. He felt his ears pop, there was a loud bang (most likely the tree being snapped) and a brief power failure.

Mr. McCarter used to own an anemometer, and from his experience with actual wind velocity measurements, he estimated the wind speed to be at least 120 km/hr. He also said that his radio tower, which remained intact, would withstand winds of up to 175 km/hr.

The last observed occurrence of damage and presumably the end of the tornado track, was at location 'J' on Pinetree Road. Here a large branch had been broken off a maple tree, some smaller plants had their stakes broken, the latter being presumed to be damaged by flying debris, and a patio roof lifted slightly off of its base. There were no reports, or any signs of damage any further to the north and east of this area.

GC/cf
29/8/79
8971-2

Gregg Croker


N
SCALE
1570 ft to 1 in
A
B
C
D
E
F
G
H
I
J
OAKRIDGE PARK
OAKRIDGE ACRES
BYRON
HUNT CLUB GOLF COURSE
OAKRIDGE SHOPPING PLAZA
OAKRIDGE COLLEGIATE
KATHERINE HARLEY SCH.
CHILDREN'S PSYCHIATRIC RESEARCH INST.
SEWAGE PLANT
GREEN-HOUSES
THAMES VALLEY GOLF COURSE
WOODLAND CEMETERY & MAUSOLEUM
WONDERLAND PAVILLION
SUNNINGHILL
SPRINGBANK PARK
WATER RESERVOIR
RESERVOIR
WESTMOUNT SHOPPING PLAZA
SEWAGE DISPOSAL PLANT
OPTIMIST PLAYGROUND
BASE LINE RD. W.
BASE 1125 LINE RD W.
COMMISSIONERS RD. W.
HUNT CLUB
OAK PARK SCH.
WESTDALE PS.
BYRON S'WOOD P.S.
ST. GEORGE R.C. CH.
ST. JAMES ANG. CH.
COMMISSIONERS PUB. SCH.
UN. CH.
WOODLAND DR. SCH.
KING ST. SCH.
HUNT VILLAGE
INDIAN RD.
NORMANDY
QUEEN-MARY
MANCHESTER
REGENCY
YORK
ROYAL
OXFORD
WEMBLEY
CROMWELL
FARM MANOR
HEADLEY DR.
SUTTON
SANATORIUM
NAOMEE CR.
SANTA MONICA
MONTCLAIR
PLYMOUTH
JOHN FEARNESS
SIDE ROAD
HYDE PARK
FIDDLERS GREEN
WOODBOROUGH
PLANTATION
CYPRUS
MAHOGANY
HAVENRIDGE CRT.
WOODHAVEN RD.
FUNTLOCK RD.
KELLY
OAK PARK
HICKORY
PINETREE
OAK PK.CT.
OBAN
GLEN
DOLWAY
DUNEDIN
WARREN
RIVERSIDE
VALETTA
RIVER-SIDE SCH.
CRAMPTON
MILE RD.
SHERENE
AMBERLEY
OAKRIDGE
OAKLEY
KILDARE
GALLOWAY
INVERNESS
JUNIPER
DEER PARK
TARBART
BUC SKATING RINK
NOTRE DAME SCH.
LUXTON
LARKSPUR
PRESTIGE CR.
EWALD
SALWAY PL.
QUINTON
GREENBRIAR
OLD HUNT RD.
CREST-CLIFFE
HUTTON
KINGSWAY
BRAEMAR CRES.
RIVERSIDE
DARLENE
GREGORY
RANDOL
MARY
PINEWOOD
CAROL WOOD
TRONDBRIDGE
KERNOHAN
RIDGEWOOD
AUBURN
COLL
HALLS MILL RD.
HALLS MILL PL.
BOLER
TIMBER CR.
TIMBER DR.
SPRINGFIELD
WOODBINE
HELENA
MONTAGUE
PARK LANE
PARK LANE CT.
GRANDVIEW
SPRINGBANK AVE.
NORMAN AVE.
NORMAN ST.
GRIFFITH
REYNOLDS
STEPHEN
BROCK
TANGLEWOOD
OAKWOOD
GRANDVIEW AV.
SOUTHFIELD
CRES.
PLATEAU
CONWAY CR.
GLENROSE
COLVILLE
COLVILLE DRIVE
RYSTON
LYNDEN
WILLARD
NASHUA
LANSING
BAPTIST
NORTH
FLORENCE BLVD
BYRON
GUES
BELVEDERE
BELVEDERE PL.
LOLA
BLAKE
JELLICOE
COLLINGWOOD
DEARBORN
FAIRLANE
REGIS PLACE
WAYNE
GATINEAU
HALIBURTON
BLUE
SIC
RIVERSIDE
GEORGIA RD.
HARTSON RD.
HAMPTON CRES.
ST. ANTHONY
ST. ANTHONY PL.
HYDE CRES.
HAZEL
FULTON
CT.
967
1050
1271
1270
1290
1385
1420
444
412
395
391
280
240
300
PIT
DAN
THAMES VALLEY FOREST
CLEARVIEW
CLEARVIEW VALLEY
MACKELLAR
SUNNINGHILL
THAMES EMBASSY
WOODLAND DR.
GARDENWOOD
SOUTHVIEW
BERKSHIRE
BERKSHIRE PL.
600
TEEPLE TER.
WESTMORLAND
WESTMORLAND CT.
WESTMORLAND PL.
APPLEWOOD LA.
WELCREST
WONDERLAND
EATON PARK DR.
TOPPING
SIDEROAD
HILLCREST
HILLCREST ST.
WESTWOOD
DAWSON
JARVIS
WESTMOUNT HILLS
WESTMOUNT DR.
HAIGHTON SHARMAN
HILLTOP CR.
CRESTWOOD
608
PADDOCK GREEN CR.
GREEN AV.
GUILDER
GUILDER CT.
GUILDER PL.
BOLE PL.
JAMAICA
JAMAICA CT.
NOTTINGHILL
NOTTINGHILL RD.
LYNNGATE
LYNNGATE CT.
SALEM
SALEM CR.
SALEM RD.
GREEN
LELAND
LELAND RD.
VILLAGE
HILLSMOUNT
HILLSMOUNT CR.
SNOWDON
CRANBROOK HILL
KNIGHTS BRIDGE
TAMARACK
WOODCREST BLVD
FOX
FOX MILL
FOX MILL GROVE
FOX MILL CR.
W SHERWOOD FOX
GARDENDALE
VISCOUNT
STILLMAN PL.
LAUNDERS
PEPPERCORN
PEPPERCORN CR.
PEPPERCORN PL.
HUNTER WOODS
VILLAGE
PADDOCK GREEN
STEEPLECHASE
STEEPLECHASE DR.

Atmospheric Environment / Environnement atmosphérique

SURFACE WEATHER RECORD

AT LONDON (STATION NAME AS IN METSTAT) PROVINCE ONT FROM 0601 24 AUG 19 77 TO 0600 25 AUG 19 77 LST - GMT -
(HOUR (GMT) DAY MONTH) (HOUR (GMT) DAY MONTH)

CHECKED, CERTIFIED COMPLETE AND CORRECT BY

I OBSERVED DATA AND COMPUTATIONS

1 NOTES AND INSTRUMENT DEFECTS AND CHANGES

II HOURLY OBSERVATIONS

Corrected Wet-Bulb °C 23	Relative Humidity % 24	Total Opacity 25	Total Amount 26	Type 27	Date (GMT) 28	Hour (GMT) 29	Sky Condition 30	Visibility 31	Weather and Obstructions to Vision 32	Sea-level Pressure 33	Dry-Bulb Temperature °C 34	Dew-Point Temperature °C 35	Direction 36	Speed 37	Character 38	Altimeter Setting (in.) 39	CLOUDS and/or OBSCURING PHENOMENA Type/Opacity 40	REMARKS 41	STATION PRESSURE 42	Tendency
	100	10	10	SA	24	0700	6-SCT M9 OVC	3	F	103	20.4	19.6	20	16		985	SF4ST6	(32.1)	977.7	
	88	10	10	SA	24	0800	M7 OVC	4	F	104	21 / 20.5	19.7	20	08		985	ST10	54XX	977.8	
		10	10	)	24	0847	M8 BKN 13 OVC	4	F		20 / 20.4	18 / 18.4					SF7ST3	07XX		
	94	10	10	SA	24	0900	M7 BKN 10 OVC	4	F	103	20 / 20.6	19 / 18.7	19	09		985	SF6ST2	(32.6) 64XX	977.7	05
	97	10	10	SA	24	1000	E7 BKN 10 OVC	4	F	103	20 / 19.6	19 / 18.7	21	09		985	SF6ST4	67XX	977.7	
CIVIL T/R 152							PIREPS 1627 17 STEC YYZ-YXU 45T 4C 4E+C						HEADWIND							
ALTIMETER SETTING 02 Higher than ... reading of 29.87	94	10	10	SA	24	1100	E7 BKN 10 OVC	4	F	105	20 / 19.1	19 / 18.8	20	07		985	SF6SC2	72XX	977.9	
		10	10	SP	24	1110	A4 BKN 10 OVC	4	F		20 / 20.1	19 / 19.1	20	08			SF7SC2			
	94	10	10	SA	24	1200	A4 BKN 8 OVC	4	F	109	20 / 20.1	19 / 17.1	20	08		986	SF8SC2	11XX (32.7)	978.2	30
CCZ MIN FRM 002 DB	94	10	10	SA	24	1300	A4 OVC	3	F	111	21 / 20.6	20 / 19.5	19	10		986	SF10	6.5XX	978.4	
	88	10	10	SA	24	1400	B4 BKN 20 OVC	4	F	112	22 / 21.7	20 / 19.8	20	09		987	SF8SC2	78XX PIREPS CWR YXN TOPS 35 ASL	978.5	
CONFIRMED TWISTER		10	10	SP	24	1420	A7 BKN 20 OVC	5	H				20	09			SF8SC2			
BYPASS SEAGRICL AREA	88	10	10	RS	24	1500	8 SCT B12 BKN 20 OVC	6	H	112	22 / 21.8	20 / 19.8	21	08		987	SF3SC5SC2	88XX (32.7)	978.5	10
2237: 2336Z DAMAGE TO	88	10	10	SA	24	1600	8 SCT E12 OVC	5	H	113	22 / 21.8	20 / 19.7	20	10		987	SF4SC6	87XX	978.6	
TREE, HOMES, FEW ROOFS	83	9	9	SA	24	1700	E12 BKN 25 BKN	5	H	111	23 / 23.3	20 / 20.1	18	10		986	CU7SC2	3199	978.4	
LINES, CORNWALL GIRLS	78	8	8	SA	24	1800	E14 BKN 40 BKN	5	H	107	24 / 23.6	20 / 19.5	18	11		986	CU6SC2	6.5SE FEW TCU (32.6)	978.1	20
FANES. NO REPORTS IN-	78	8	8	SA	24	1900	XE14 BKN 40 BKN	5	H	101	24 / 23.7	20 / 20.0	17	12		984	H2CU5SC1	7088	978.5	
JURY OR DEATHS.	78	9	9	RS	24	2000	-X E15 BKN	4	H	099	24 / 24.1	20 / 19.7	18	12		983	H4TCU5	1799	977.3	
	78	6	6	SA	24	2100	-X E20 BKN	4	H	093	24 / 24.0	20 / 20.4	18	11		982	H3TCU3	CHGG (32.4)	977.9	6
	83	8	8	SA	24	2200	-X E20 BKN 40 BKN 280 BKN	3	H	095	23 / 23.2	20 / 19.5	19	09		983	H3CU3SC1CI1	2588	977.1	
		8	8	SP	24	2228	-X E20 BKN 280 BKN	3	TH				20	07			H3CU3CI2			
		8	8	SP	24	2250	-X 8 SCT E20 BKN 280 BKN	3	H				26	10			H3CFITCU2CI2	CBNW WDLS SHFT 2245		
	78	7	8	RS	24	2300	-X 20 SCT E280 BKN	3	H	096	23 / 23.0	19 / 19.3	22	05		983	H3TCU2CI2	0378	977.2	
	88	6	8	SA	25	0000	-X 25 SCT E280 BKN	1½	FH	098	22 / 21.6	20 / 19.4	19	06		983	H3TCU1CI2	6468 (32.5)	977.3	30
	88	8	9	SA	25	0100	-X E280 BKN	2	F	101	21 / 20.8	19 / 19.2	20	04		984	F3CI5	8289	977.6	
	94	7	8	SA	25	0200	-X E280 BKN	2½	F	107	20 / 20.4	19 / 19.1	23	06		986	F2CI5	4178	978.2	
		7	8	SP	25	0235	30 SCT E280 BKN	7					24	08			SC3CI4			
	83	9	9	SA	25	0300	M30 BKN 280 BKN	7		112	21 / 20.6	18 / 17.6	27	09		987	SC6CI3	6699 (32.6)	978.6	30
	73	9	9	SA	25	0400	M24 BKN	15		114	18 / 17.5	13 / 13.4	28	07		988	SC9	5499	979.0	
	82	0	0	SA	25	0500	CLR	15		114	16 / 16.0	13 / 13.4	27	04		989		0400	979.3	
	88	0	0	SA	25	0600	CLR	15		126	15 / 15.0	13 / 12.7	26	04		991		0700 (32.7)	979.9	11

(GMT) Duration of Weather and/or Obstruction to Vision (GMT)

Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4
H	1410	0100			
F	2228	2235			
RW--	2245	2250			

HOUR (GMT)	Corrected Maximum TENTHS 5	T_xT_x 6	Corrected Minimum TENTHS 7	T_nT_n 8	Snowfall cm & TENTHS 9	Water equivalent mm & TENTHS 10	Rainfall mm & TENTHS 11	Total Precipitation mm & TENTHS 12	24 hour Precipitation mm & TENTHS 13	Depth Snow on Ground WHOLE cm 14
12	20.6	(24) 24	19.5	12 19	0	0	0	0	22.4	0
18	25.0	12 25	20.0	24 19	0	0	0	0	22.4	0
00	25.1	12 25	(21.6) 20.5	18 20	0	0	TR	TR	16.8	0
06	22.2	24 25	15.0	24 15	0	0	0	TR	TR	0
24-HR.	25.1		15.0		0	0	TR	TR		

TIME (GMT)	0900	1200	1500	1800	2100	0000	0300	0600
15 Sum (T_{-12} + To)	43.4	41.3	41.6	43.8	44.0	41.7	42.4	38.6
16 Mean (Sum ÷ 2)	21.7	20.7	20.8	21.9	22.0	20.9	21.2	19.3
17 Attached Thermometer	74	74	74	75	76	75	74	73
18 Barometer as read	982.8	982.3	982.7	982.3	981.2	981.5	982.8	984.0
19 Total Correction	-4.1	-4.1	-4.2	-4.2	-4.3	-4.2	-4.2	-4.1
20 Station Pressure	977.7	978.2	978.5	978.1	976.9	977.3	978.6	979.9
21 Reduction to Sea Level	32.6	31.7	32.7	32.6	32.4	32.5	32.6	32.7
22 Sea Level Pressure								

III CODED SYNOPTIC REPORTS

Day (GMT)	HOUR	IIiii	Nddff	VV ww W	PPP TT	$N_hC_Lh_LC_Mh_MC_Hh_H$	T_dT_d app	(99ppp)	$6P_0P_0P_0P_0$ 20	7 RR $R_{12}s_4$ 3 14	8 $N_sC_Lh_Lh_s$	8 $N_sC_Mh_Mh_s$	8 $N_sC_Hh_Hh_s$	9 $S_pS_pS_pS_p$	$2P_{24}P_{24}P_{24}P_{24}$ 13	$4T_xT_xT_nT_n$ 6
24	09										8	8	8	9		(24)
	12	71623	82002	56102	10920	87200	19305		69782	7	8	8	8	9	2 0224	4 24
	15										8	8	8	9		12
	18	71623	61811	58052	10724	68400	20804		69781	7	8	8	8	9	2 0224	4 25
	21										8	8	8	9		12
	00	71623	62006	40109	09822	12501	20304		69773	79720	8	8	8	9	20168	4 23
	03										8	8	8	9		24
	06	71623	02164	74021	12615	00900	13113		69799	7	8	8	8	9 8034	2	4 25

IV SUMMARY FOR THE CLIMATOLOGICAL DAY ENDING AT 0600 GMT

Day (2 figures) 44	TEMPERATURE Maximum TENTHS 45	TEMPERATURE Minimum TENTHS 46	REL. HUMIDITY Maximum 47	REL. HUMIDITY Minimum 48	AMOUNT OF PRECIPITATION 6-HOUR TOTAL AMOUNT 1200Z mm & TENTHS 49	1800Z mm & TENTHS 50	0000Z mm & TENTHS 51	0600Z mm & TENTHS 52	24-HOUR AMOUNT Rainfall (R,RW,L, ZR,ZL,A) mm & TENTHS 53	Snowfall (S,SW,IP, IPW, SP SG, IC) cm & TENTHS 54	Total Precip. mm & TENTHS 55	DEPTH* of snow on the ground at 12Z WHOLE cm 56	DAY WITH Thunderstorms 57	Freezing Rain or Freezing Drizzle 58	Hail 59	Fog, Ice Fog (vsby less than 5/8 mi) 60	Vsby 6 mi or less: Smoke, Dust Haze or Haze 61	Blowing Dust, Blowing Sand 62	Blowing Snow 63	MEAN WIND OF: 28 or more knots 64	34 or more knots 65	PEAK WIND SPEED GUST OR MEAN (leave blank if speed not exceed 16 kn): Direction nearest to 10 degrees (2 figures) 66	Speed 67
24	25	15	100	73	0	0	TR	0	TR	0	TR	0	1	0	0	0	1	0	0	0	0	