C 0498101 ✓

TORNADO PROJECT SUMMARY SHEET

F= N.B

1. DATE AND TIME July 8, 1981 (Late Afternoon)

2. LOCATION OR PATH (attach map)

5 mi south of Cap Pele N.B

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

4. PATH WIDTH Unknown 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.)

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

12. TOTAL INJURED none 13. TOTAL HOMELESS none

14. LIST ALL REFERENCES

Moncton Weather Office Report

Climatic Perspectives Vol 3, no 28. July 7 to July 13, 1981

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

(b) Damage limited to wooded areas

T.D. 2040 1750 500 0

51 | 2875

Environment Canada / Environnement Canada — Atmospheric Environment Service / Service de l'environnement atmosphérique

SURFACE WEATHER RECORD

AT MONCTON (A) YQM (STATION NAME AS IN METSTAT) PROVINCE NEW BRUNSWICK FROM 0601 (HOUR (GMT)) 08 JULY (DAY MONTH) 1981 TO 0600 (HOUR (GMT)) 09 JULY (DAY MONTH) 1981 LST = GMT − 4 HOURS

1 of 1

CHECKED, CERTIFIED COMPLETE AND CORRECT BY 69

I OBSERVED DATA AND COMPUTATIONS

1 NOTES AND INSTRUMENT DEFECTS AND CHANGES

FKWM 26/8/630

" " 3330/635

UNOFFICIAL REPORTS OF TORNADO ACTIVITY FROM CORNHILL N.B. AND 5 mi SOUTH OF CAP PELE N.B. DURING LATE AFTERNOON

II HOURLY OBSERVATIONS

Corrected Wet-Bulb °C 23	Relative Humidity % 24	Total Opacity 25	Total Amount 26	Sky Condition 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	Wind Direction 36	Wind Speed 37	Wind Character 38	Altimeter Setting (in.) AT 06Z 39	CLOUDS and/or OBSCURING PHENOMENA Type/Opacity 40	REMARKS 41	(84) 42	Tendency 43	OBSERVER (Print) 44
	94	0	0	SA	08	0700	CLR	15		084	11 / 113	10 / 103	21	06		978		3500			RSR
	94	2	2	SA	08	0800	300 SCT	15		080	11 / 114	10 / 95	22	05		977	CU2	4522			RSR
	94	6	8	SA	08	0900	150 SCT E100 BKN	8		069	12 / 115	11 / 105	23	05		974	AC2 CI4	5568	(84)	817	RSR
	94	9	10	SA	08	1000	E100 BKN 300 OVC	15		070	12 / 121	11 / 110	23	05		974	AC2 CI2	1097			RSR
	88	10	10	SA	08	1100	E50 BKN 100 OVC	15	RW--	056	13 / 133	11 / 113	23	08		970	SC6 CI4	5322			RSR
	77	9	10	SA	08	1200	50 SCT E90 BKN 250 BKN	15		038	16 / 141	12 / 120	21	10		964	SC3 AC5 CI1	1099	(84)	831	RSR
	73	10	10	BS	08	1300	50 SCT E100 BKN 250 OVC	15	RW-	028	18 / 180	13 / 126	23	11		961	SC2 AC6 CI2	0644			RSR
		10	10	SP	08	1340	M40 BKN 100 OVC	5	TRW-F				24	08			SC8 AC2	CB EMBDD			RSR
	88	9	9	SA	08	1400	M40 BKN 100 BKN	4	TRW-	009	17 / 166	15 / 146	21	08		956	SC8 AC1	6699 CB S-W PRESFR.			RSR
		8	9	SP	08	1445	40 SCT E70 BKN 250 BKN	15					19	12			TCU4 AC3 CI1				RSR
	78	8	9	SA	08	1500	40 SCT E70 BKN 250 BKN	15		994	19 / 188	15 / 153	20	12		951	TCU5 AC3 CI	8389	(84)	844	RSR
	65	5	7	SA	08	1600	40 SCT 70 SCT 250 - BKN	15		980	21 / 238	17 / 167	24	11		947	TCU4 AC1 CI	8757			RSR
	54	6	6	SA	08	1700	40 SCT E70 BKN	15		972	22 / 267	17 / 171	26	18	G30	945	CU2 AC4	7166 TCU ASCTD			RSR
	58	9	9	SA	08	1800	E40 BKN	15		962	22 / 267	18 / 178	24	15	G22	942	CU9	7899	(84)	632	RSR
				UA	08	1828	UA/OV YQM N28 1616 /TP PA24 /FL025/SK 033-035 BKN-OVC TOP A24V / TALOT /RM HEADWIND ON CLMB FM FL060 140 OUT OF YHZ 60-80 CB CELLS E-SE TOPS 35														RSR
				UA	08	1855	UA/OV YSJ VOR 125028 1843 FL140 /TP C421 /WV 365066-085 /RM HEADWIND ON CLMB FM FL060														RSR
	58	8	8	SA	08	1900	E40 BKN	15		946	22 / 283	19 / 193	24	14	G25	937	CU8	3388 TCU ASCTD.			RSR
		8	8	SP	08	1949	M22 BKN 40 BKN	15	TRW-				33	20	G35		CB6 CU2	VSBY N 3 RW-			RSR
	88	9	9	RS	08	2000	5 - SCT E20 BKN	15	TRW--	972	22 / 217	20 / 203	02	13	G20	945	SF1 TCU8	7299 CB MVNG SE CB EMBDD PRESFR			RSR
	83	9	9	SA	08	2100	8 - SCT E15 BKN	15		985	20 / 195	17 / 165	03	13	G20	949	SF1 TCU8	5599	(84)	323	RSR
	73	6	6	SA	08	2200	M35 BKN	8		992	21 / 205	16 / 158	04	11		951	SC6	5866			RSR
	83	3	3	SA	08	2300	30 SCT 80 SCT	10		005	19 / 178	15 / 148	03	13		955	SC2 AC1	8933			RSR
	82	4	4	SA	09	0000	30 SCT 300 SCT	10		022	16 / 158	13 / 134	01	13		959	SC3 CC1	8444 TCU ASCTD	(84)	337	RSR
	88	2	2	SA	09	0100	30 SCT	15		032	14 / 141	12 / 123	01	10		962	SC2	1322			RSR
	94	0	0	SA	09	0200	CLR	15		034	13 / 132	12 / 118	01	05		963		2800			RSR
	94	0	0	SA	09	0300	CLR	15		038	12 / 123	11 / 113	32	03		964		3300	(84)	116	RSR
	100	3	3	SA	09	0400	-X	10		038	11 / 109	11 / 107	21	04		964	E3	4733 VSBY NW 1			RSR
		6	6	SP	09	0433	-X	2	F				22	04			F6				RSR
		8	8	SP	09	0440	-X	1	F				21	03			F8	VSBY W 0			RSR
		9	9	SP	09	0446	-X	¼	F				21	04			F9	VSBY W 0			RSR
	100	7	7	RS	09	0500	-X	1	F	038	11 / 113	11 / 108	24	05		964	F7	3877 VSBY ~~S-SW~~ 10			RSR
		7	7	C	09	0531	-X	1	F				23	06			F7				RSR
		6	6	SP	09	0548	-X	2	F				22	05			F6				RSR
	100	6	6	RS	09	0600	-X	1	F	037	11 / 111	11 / 108	21	05		964	F6	1966 VSBY HVY SW	(84)	801	RSR

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

Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4
RW--	1155	1118			
RW--	1245	1300			
RW-	1330	1445			
T	1341	1445			
T	1947	2000			
RW-	1949	2000			
RW--	2033	2013			
F	0446	0500			

III CODED SYNOPTIC REPORTS

Day (GMT)	HOUR	Iliii	N dd ff 26	VV ww W 31 32 2-4	PPP TT 33 34	$N_h C_L h C_M C_H$	$T_d T_d$ app 35 42	(99 ppp)	$6P_0P_0P_0P_0$ 20	7 RR R_t s 12 3 4 14	8 N_s C $h_s h_s$	8 N_s C $h_s h_s$	8 N_s C $h_s h_s$	9 $S_p S_p$ $s_p s_p$	$2R_{24}R_{24}R_{24}R_{24}$ 13	4 $T_x T_x$ $T_n T_n$ 6 8
08	09															(24) 12
	12	71705	72110	74251	03816	25772	12831		69954	79720	8	8	8	9	2	4 26 11
	15										8	8	8	9		12 24
	18	71705	72415	74039	96227	72600	18632		69878	70140	8	8	8	9	20014	4 26 11
	21										8	8	8	9		12 18
09	00	71705	30113	66029	02216	25509	13337		69938	79440	8	8	8	9	20018	4 29 11
	03										9	8	8	9		24 24
	06	71705	02105	16104	03711	00900	11801		69953	7	8	8	8	98017	20018	4 29 11

IV SUMMARY FOR THE CLIMATOLOGICAL DAY ENDING AT 0600 GMT

TIME (GMT)	0900	1200	1500	1800	2100	0000	0300	0600
15 Sum (T-12 + To)	34.9	34.9	34.9	38.9	31.0	31.9	31.1	37.8
16 Mean (Sum ÷ 2)	17.5	17.5	17.5	19.5	15.5	16.0	15.6	18.9
17 Attached Thermometer	70	72	73	74	75	74	73	72
18 Barometer as read	999.5	996.6	992.3	989.2	991.6	995.2	996.7	996.5
19 Total Correction	-1.0	-1.2	-1.3	-1.4	-1.5	-1.4	-1.3	-1.2
20 Station Pressure	998.5	995.4	991.0	987.8	990.1	993.8	995.4	995.3
21 Reduction to Sea Level								

Day (12 figures) 44	TEMPERATURE Maximum TENTHS 45	TEMPERATURE Minimum TENTHS 46	REL. HUMID:TY Maximum 47	REL. HUMID:TY 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 does not exceed 16 knots) Direction nearest 10 degrees (2 figures) 66	Speed 67	Time (GMT) (2 figures) 68
08	70	58	94	58																				
09	74	58	94	58	0.4	1.4	0.4	0	1.8	0	2.2	0	1	1	0	0	1	0	0	0	0	0	0	0

Form 1300-81-1 (Rev. 81-12)

Tornado, July 8, 1981

N.B.

with Castlegar recording 37.6 mm.

Heavy thunderstorms occurred in some northeastern areas on July 13th. Funnel clouds were reported at Fort St. John and a plane crash was attributed to the thunderstorms.

Hay is rotting in the fields in some southern areas. Many fruit tree diseases are in evidence and there will be few appricots this year.

PRAIRIE PROVINCES

The week began and ended with a barrage of thunderstorms. A tornado touched down in Winterburn on the western edge of Edmonton on the 13th but damage was limited to two farms. Precipitation totaled 48.9 mm at Fort McMurray and 47.4 mm at Uranium City.

Cool weather invaded Alberta and western Saskatchewan and pushed mean temperatures almost 6° below those of the preceeding week. Warm weather remained in the rest of Saskatchewan and in Manitoba. The mercury reached 37° at Estevan.

Although mean temperatures may be below normal it is the sun that predominates and crops are reported to be doing well. The Peace River area is still short of moisture but crops in southern Alberta are doing exceptionally well.

ONTARIO

Hot, hazy and humid conditions prevailed across Ontario this week as July continued its near perfect vacation weather. In northern Ontario, Kapuskasing soared to 34° on the 7th breaking the old record of 32° set in 1936.

Precipitation totals exceeded normal at only three stations. Trout Lake led with 29.4 mm.

Vegetable and fruit crops are doing very well although the heat and humidity caused some problems with apple scab. The forest fire situation has quickly gone from a low hazard rating to a high hazard one. Sixty-four fires were burning at week's end as thunderstorm activity during the hot yet mainly dry week in northwestern regions has created the worst picture in many weeks.

QUÉBEC

Precipitation was light but showers and thundershowers touched all regions. Funnel clouds were sighted in the Saint-Lawrence south of Baie-Comeau. Hail was reported in the Sherbrooke region on the 13th; precipitation of more than 40 mm on the same day at Sherbrooke and at Vald'or pushed the weekly accumulations to 61.7 mm and 51.4 mm respectively.

The airmass cooled in the northeast of the province resulting in below normal mean temperatures. Mean temperatures over most of the province were more than 3° above normal. The mercury reached 34° at Maniwaki.

ATLANTIC PROVINCES

Heavy thunderstorms struck southeastern New Brunswick on July 8th and there were unconfirmed reports of Tornadoes. Most damage was limited to a wooded area which was cleared by the storms. Precipitation was light over most of the Maritimes but weekly totals were much above normal in southern Newfoundland. Argentia reported 79 mm.

Mean temperatures were below normal over most of Newfoundland. The mercury fell to 3° at Hopedale and Cartwright on July 9th and 13th respectively. The airmass over most of the Maritimes remained warm and Fredricton reached 33° on July 8th.

Newfoundland is starting its first hay cut but the cool wet weather has forced farmers to wait for drier conditions.

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July 7 to July 13, 1981