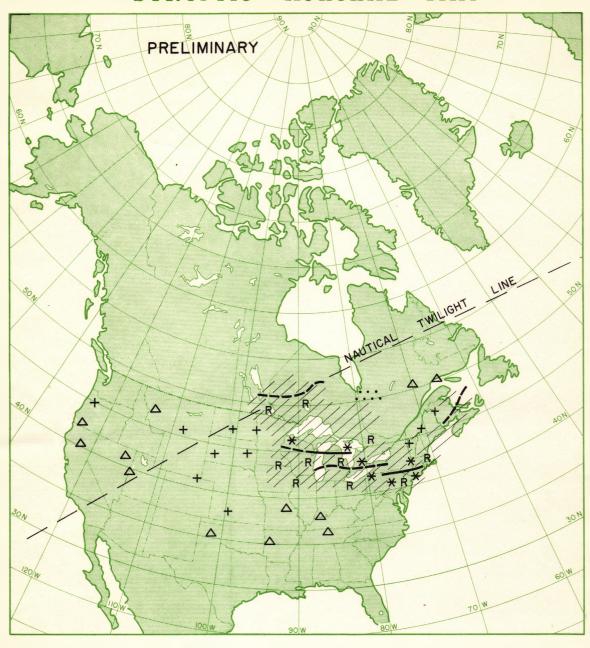
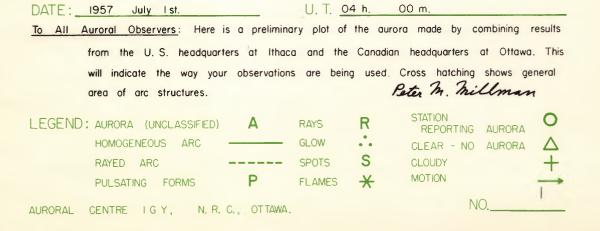
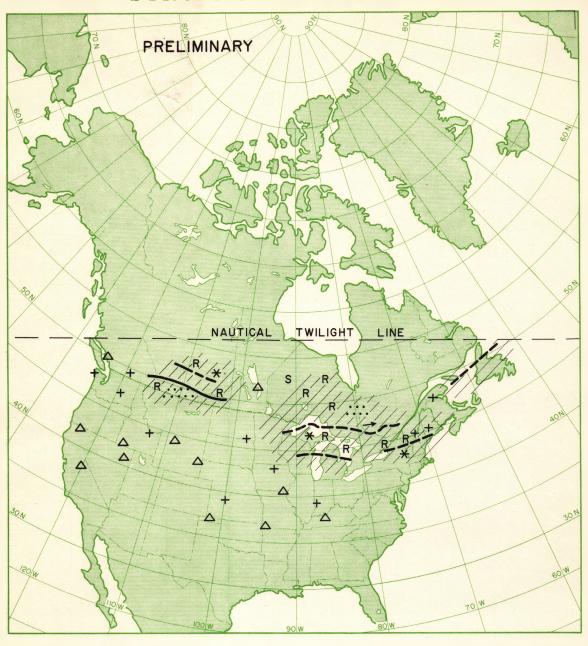
YEAR	MONTH	DATE	Pos	NEG	YEAR	MONTH	DATE	Pos	NEG	
1957	OCT	13/14	6		1958	MAY	23/24		1	
		15/16		2	•		25/26		2	
		16/17		1			26/27		4	
	OCT/NOV	31/1		2.		JUN				
	NOV	10/11		3			2/3	4		
		12/13		4			7/8		2	
		26/27	11	2			14/15		2	
		27/28		1			18/19		2	
	DEC	2/3		2			19/20		2 2 2 2 2 7	
		3/4		5		JUL	30/31		2	
		4/5		1		AUG	10/11		7	
		11/12		1			11/12		1	
		13/14		1			13/14		8	
		17/18		4			15/16		10	
		22/23		5			16/17		2	
		24/25		6		,	23/24	4	1	
		27/28		6		SEP	2/3		3	
1958	JAN	2/3		1			3/4	2	1	
		11/12		2			8/9		3	
		12/13		4			13/14		8	
		19/20		10			19/20		2	-
		20/21		3			23/24		1	
		23/24		7		OCT	1/2	1	2	
	FEB	14/15		12			7/8		2	
		22/23		5		NOV	7/8 1/2 3/4 7/8 12/13		2 3 4 2	
		25/26		18			3/4		4	-
	MAR	9/10	_	16			7/8		2	-
		18/19	6	8			12/13			-
		19/20		2		3	13/14			
		25/26		8 2 3 2		DEC	13/14		6	
		28/29		2	F		7/8		1	
	APR	13/14		3			7/8		6	
		19/20 25/26 28/29 13/14 14/15					30/31		3	
		15/16		11			30/31		3 8 2 2	
		18/19		8	1959	JAN	5/6 13/14 25/26 27/28		2	-
	MAY	17/18	1				13/14		2	The state of the s
		19/20		5			25/26		4 5	-
		19/20		2			27/28		5	-
		22/23		2		JAN/FEB	21/1		1	-

	1				1		1		
YEAR	MONTH	DATE	P05	NEG	YEAR	MONTH	DATE	P05	NEG
1959	MAR MAR	1/2		2					
		3/4		1					,
		6/7		1					
		25/26	2	2					
	MAR	2/3		4					
		4/5		3					
		7/8		3					
		8/9							
		9/10		5					
3 1	1	27/28		1					
		28/29	2						
		29/30		2					
	MAR/APR	31/1		1					
	MARRIA	6/7		4					
		14/15		1	-				
		16/17		1					
	MAY	4/5	1						
		9/10		1					
		16/17		1					
		25/26							
		28/29		1			-		
	JUN	23/24	2					Y	
	JUL	25/26							
	OCT	20/21							1
		21/22		2					
		25/26		3					
		28/29							
	110	25/26 20/21 21/22 25/26 28/29 29/30 7/8 8/9		2					
	NOV	7/8							
		8/9		/					
		15/16 24/25							
	DEC	24/25		5					







DATE: 1957 July 1st. U. T. 06 h. 00 m. To All Auroral Observers: Here is a preliminary plot of the aurora made by combining results from the U.S. headquarters at Ithaca and the Canadian headquarters at Ottawa. This will indicate the way your observations are being used. Cross hatching shows general Peter M. millman area of arc structures. STATION LEGEND: AURORA (UNCLASSIFIED) A RAYS R REPORTING AURORA - GLOW .. HOMOGENEOUS ARC CLEAR - NO AURORA

CLOUDY ---- SPOTS S RAYED ARC P FLAMES X MOTION PULSATING FORMS NO.

AURORAL CENTRE IGY, N. R. C., OTTAWA.

Dear Mr Yaherty,

This will acknowledge with thanks all visual auroral reports for the I. G. Y., made in Movember.

We appreciate your cooperation in this special

I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Pete In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Saherty:

This will acknowledge with thanks Mvisual auroral reports for the I. G. Y., made in December

We appreciate your cooperation in this special

I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Peter In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Saherty:

This will acknowledge with thanks all visual auroral reports for the I. G. Y., made in January.

We appreciate your cooperation in this special

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Sincerely yours,

Peter In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Gaherly:

This will acknowledge with thanks all visual auroral reports for the I. G. Y., made in Asbruary.

We appreciate your cooperation in this special

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Sincerely yours,

Peter M. Millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Saherty:

This will acknowledge with thanks I visual auroral reports for the I. G. Y., made in March.

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Sincerely yours,

Peter In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

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Sincerely yours,

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Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Goldy,

This will acknowledge with thanks  $\mathfrak{All}$  visual auroral reports for the I. G. Y., made in  $\mathcal{H}_{\mathfrak{All}}$ .

We appreciate your cooperation in this special

I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Peto In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Geoffrey Gaherty, Jr., 636, Sydenhem Avenue, Montreal 6, Quebec. June 23, 1958.

Auroral Centre, I. G. Y., National Research Council, Ottawa, Ontario.

Dear Sirs:

This letter will notify you that I am sailing tomovrow for England and will return in a month's time. I shall continue sending in Aurora reports as often as I am able. My address while in England will be the Savoy Hotel, London. I hope that this will clear up any confusion that might occur concerning my reports.

Yours truly,

Geoffrey Caherty, Jr.;

Dear Mr. Yaherty:

This will acknowledge with thanks all visual auroral reports for the I. G. Y., made in

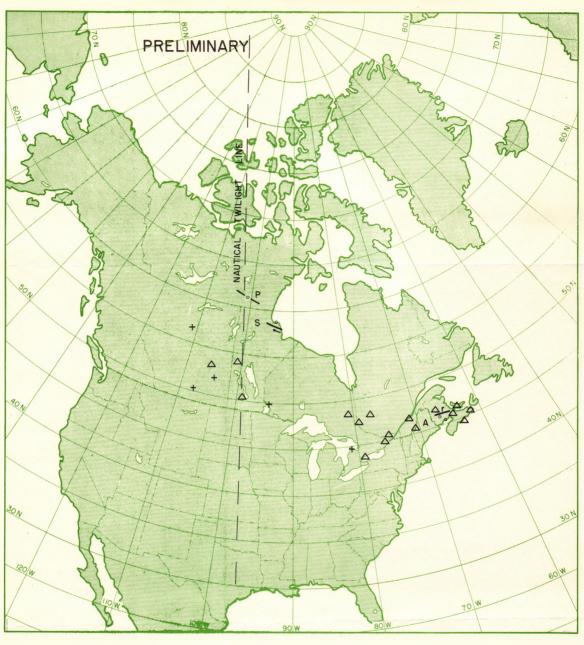
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Sincerely yours,

Fet In William

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.



DATE: 1958 February 11 th.

To All Auroral Observers: This illustrates the first stages of the great red auroral display of Feb. 10/11, as observed at the Canadian stations. When additional observations have been received and the plots from points in the U.S.A. added, we should have a very good synoptic picture of this striking phenomenon.

Pater In Inclinate

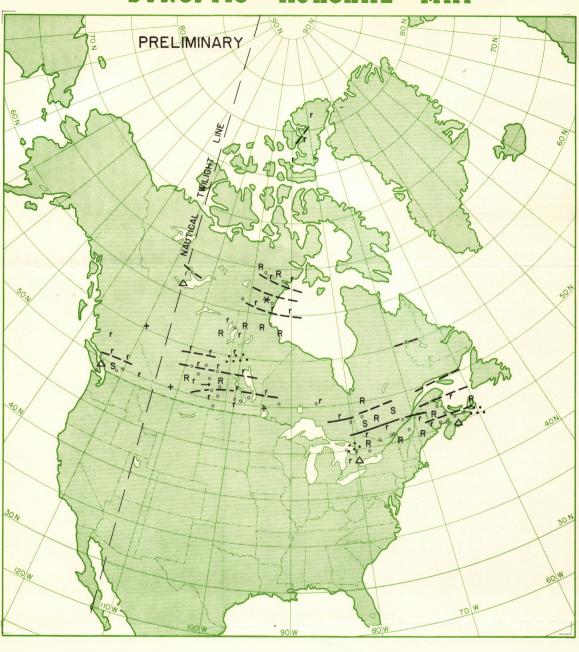
LEGEND: AURORA (UNCLASSIFIED) A RAYS R STATION REPORTING AURORA

HOMOGENEOUS ARC

RAYED ARC

PULSATING FORMS

AURORAL CENTRE IGY, N.R.C., OTTAWA.



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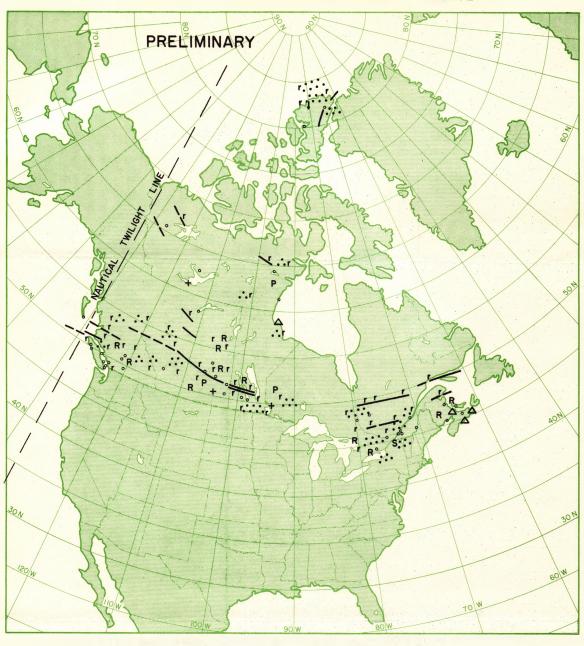
HOMOGENEOUS ARC

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P

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Pute In Publication

CEGEND: AURORA (UNCLASSIFIED) A RAYS R STATION REPORTING AURORA CLEAR - NO AURORA

HOMOGENEOUS ARC
RAYED ARC
PULSATING FORMS
P FLAMES X

MOTION

AURORAL CENTRE IGY, N. R. C., OTTAWA.

GLEAR - NO AURORA
CLOUDY
MOTION

NO. 5

Dear Mr. Baherty:

This will acknowledge with thanks all visual auroral reports for the I. G. Y., made in august and september.

We appreciate your cooperation in this special

I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Peter In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Jakerty:

This will acknowledge with thanks elvisual auroral reports for the I. G. Y., made in Hovember.

We appreciate your cooperation in this special

I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Feto In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr. Saherty

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I. G. Y. program. You will receive progress reports from time
to time.

Sincerely yours,

Feto In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.



IN YOUR REPLY PLEASE QUOTE

FILE No. .....

#### NATIONAL RESEARCH COUNCIL CANADA

RADIO AND ELECTRICAL ENGINEERING DIVISION

OTTAWA 2. January 15, 1959.

Dear Mr. Gaherty:

The end of January, 1959, marks the termination of the twenty months officially assigned to the scientific observations connected with the International Geophysical Year. On behalf of the National Committee of Canada for the I.G.Y., I would like to express our appreciation and thanks for your cooperation in making visual observations of the aurora. I would appreciate it if you would convey these thanks to those who have worked with you on this programme.

In surveying what has already been accomplished, I think we can safely say that this has been one of the most successful visual auroral programmes ever attempted. We now have well over 300,000 individual observations from more than 300 cooperating stations. Many more will be received within the next few months and the analysis of this material, which is now proceeding rapidly, will give us a very fine picture of the appearance of the aurora across Canada during the past year and a half. When coupled with similar material from the United States and the results secured by radio and photographic methods, we will have a most valuable synoptic picture of the aurora over the North American continent.

As a result of the success of the I.G.Y. observations it is probable that most of the Canadian auroral instruments will continue to operate until April 15, 1959, and some will carry on throughout the whole of 1959. Auxiliary visual observations will hence be of continuing value during the current year. If you have the opportunity for making such observations during 1959, we will be very glad to have them. The instructions issued for the I.G.Y. will also apply to any observations made during the current year.

In conclusion may I add my own personal word of thanks for your enthusiasm and cooperation during the past months. With best wishes for a happy and prosperous 1959, I am

Sincerely yours,

Peter M. Millman,

Auroral Centre, I.G.Y., National Research Council, Ottawa.

Peter M. millman

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Mr. G. Gaherty Jr., 6 36 Sydenham Ave., MONTREAL 6. Que.

1959.

SEARCH"

SE QUOTE

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Peter M. Millman,

Auroral Centre, I.G.Y.,

National Research Council, Ottawa.

Setes M. millman

Dear Mr Saherty

This will acknowledge with thanks of visual auroral reports for the I. G. Y., made in farming.

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Sincerely yours,

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1st hay 1959

Dear In Gaherty

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Sincerely yours,

Fet In millman

Peter M. Millman, I.G.Y. Auroral Reporter for Canada.

Dear Mr Sakerty .

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We appreciate your cooperation in this special

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