

A. Vibert Douglas

"A Multiple Rainbow seen on the St. Lawrence River"

107.

Loc 2303.9

Box 4

File 27

A MULTIPLE RAINBOW SEEN ON THE ST. LAWRENCE
RIVER.

BY

By A. VIBERT DOUGLAS

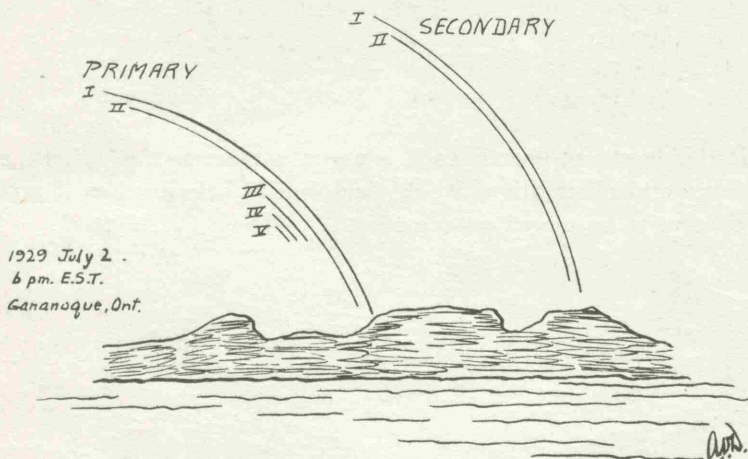
*Reprinted from the Journal of the Royal Astronomical Society of Canada
October, 1929*

THE UNIVERSITY OF TORONTO PRESS
1929

A MULTIPLE RAINBOW SEEN ON THE ST. LAWRENCE RIVER.

By A. VIBERT DOUGLAS

On July 2, 1929, at about 6 p.m., E.S.T., a gusty west wind brought showers over the Thousand Islands near Gananoque, Ontario, and a rainbow was seen having certain features never before observed by the writer.



A Multiple Rainbow seen on the St. Lawrence River.

The primary bow was very intense. The violet of its inner edge merged into another but fainter red, yellow, and green bow. The fainter secondary bow also showed this double effect. But the unusual feature was that near the base of the primary bow there were clearly visible, for several minutes, a third and fourth reddish-violet band and momentarily a fifth was distinctly seen against the dark grey-blue background of the sky. Between the third and fourth a faint yellow and green were just distinguishable, but only the red-violet bands of the fourth and fifth were seen. The accom-

panying sketch indicates approximately the positions of the successive bows, as drawn immediately afterwards from memory. The following estimates of relative intensities are likewise from memory and are based on an arbitrary scale with 1 for the bow just visible P.V. and 10 for the intense outward rim of the primary bow P.I.

Rainbow	Relative Intensity	Approximate Duration.
P. I.	10	5 min.
P. II.	8	5
S. I.	7	5
S. II.	5	5
P. III.	4	2
P. IV.	2	1
P. V.	1	momentary.

If this beautiful phenomenon is as uncommon as the writer's experience and observations would lead one to believe, then it seems to deserve to be placed on record.