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ROBERT H. COGSWELL'S

[1898

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white tower. Visible over  $315^{\circ}$  from S.W. by W. through N. to W. by N. In thick weather a steam horn sounds blasts of 15 seconds with intervals of 30 seconds.

WARD'S POINT, ROCKPORT — Lat  $45^{\circ} 43' 35''$  N., lon  $64^{\circ} 29' 40''$  W. Fixed white dioptric light, visible 10 miles, 72 feet high. Building white square wood. Visible from E. N. E. through N. to S. W.  $\frac{1}{2}$  W.

CAPE ENRAGE, on pitch of Cape, lat  $45^{\circ} 35' 40''$  N., lon  $64^{\circ} 47' 0''$  W., one fixed white light, visible 15 miles, 120 feet high. Visible between bearings N. W. round S. to N. E. A steam fog horn, 130 feet S. W. from the light house, at an elevation of 100 feet, sounds blast of 8 seconds with intervals of 20 seconds.

ANDERSON'S HOLLOW, on eastern end Government breakwater, lat  $45^{\circ} 37' 30''$  N., long  $64^{\circ} 49' 45''$  W. Fixed red dioptric light 25 feet high, square white wood, with red roof, 20 feet. Visible 6 miles over an arc of  $56\frac{1}{2}^{\circ}$  between bearings of N. E.  $\frac{1}{2}$  E., and N. by W.  $\frac{1}{2}$  W. Vessels may run for harbor one hour before high water, giving the light 50 feet of a berth on port hand.

QUACO PIER, on outer end of E. breakwater pier, lat  $45^{\circ} 21' 20''$  N., long  $65^{\circ} 31' 55''$  W. Fixed red dioptric light, 20 feet high, white square wood structure, visible 6 miles, between W. by N.  $\frac{1}{2}$  W. and N. W., and between N.  $\frac{1}{2}$  E. and N. E. by E. The deepest water on entering the harbor is close to the light. Obscured from N.  $\frac{1}{2}$  W. to N.  $\frac{1}{2}$  E.

QUACO WEST HEAD, on pitch of Cape St. Martin's, lat  $45^{\circ} 19' 30''$  N., long  $65^{\circ} 32' 10''$  W. Revolving white catoptric light, 20 seconds interval, visible 16 miles, 110 feet high, building white square wood with dwelling attached. General coast light to guide to St. Martin's Harbor. Steam fog horn, 70 feet from lighthouse, gives blasts of 9 seconds with intervals of 30 seconds.

QUACO BELL BUOY, black iron buoy, surmounted by bell, off reef at west head, in 14 fathoms,  $\frac{1}{2}$  mile S. S. E. from light; lat  $45^{\circ} 14' 35''$  N., lon  $65^{\circ} 22' 40''$  W.

QUACO LEDGE BELL BUOY, red iron buoy, surmounted by bell in 10 fathoms, N. W. of ledge. Lat  $45^{\circ} 14' 35''$  N., long  $65^{\circ} 22' 40''$  W.

CAPE SPENCER, pitch of Cape, lat  $45^{\circ} 12' 5''$  N., lon  $65^{\circ} 54' 35''$  W., red and white catoptric light, alternating every 45 seconds, visible 20 miles, 207 feet high, white square building, with tower, height 35 feet. Visible between the bearings from E. S. E. round by S. to W. N. W., Partridge Island light bearing by compass N. W. by W.  $\frac{1}{2}$  W. northerly, distant  $6\frac{1}{2}$  miles.

BLACK POINT WHISTLING BUOY, black iron buoy, surmounted by a 10 inch whistle, in 16 fathoms, outside entrance of St John harbor. Lat  $45^{\circ} 11' 30''$  N., long  $66^{\circ} 1' 0''$  W. From the buoy Partridge Island light bears N.  $\frac{1}{2}$  W.  $3\frac{1}{4}$  miles; Mispeck Point E.  $\frac{1}{4}$  N.  $1\frac{1}{2}$  miles, south west end of Meogenes Island N. W. by W.  $3\frac{1}{4}$  miles.

PARTRIDGE ISLAND, St. John harbor, lat  $45^{\circ} 14' 3''$  N., lon  $66^{\circ} 3' 5''$  W., fixed white dioptric light, visible 17 miles, 119 feet high, building red and white in vertical stripes, height 40 feet. In foggy weather a steam whistle sounds for 10 seconds every minute. A bell boat near E. side of Partridge Island Reef.

NEGRO POINT, on end of Government breakwater W. entrance to port of St. John, lat  $45^{\circ} 14' 13''$  N., long  $66^{\circ} 3' 19''$  W. Fixed red dioptric light, 40 feet high, visible 8 miles, white with red lantern, open framed hexagonal tower on circular stone foundation. 35 feet high.

ST. JOHN HARBOR, on pier on W. side of channel, lat  $45^{\circ} 14' 58''$  N., lon  $66^{\circ} 3' 12''$  W. Fixed red dioptric light, 35 feet high, visible 10 miles, building 15 feet, vertical black and white stripes.

RED'S POINT, on Prince William Street foot of St. James Street, St. John city. Lat  $45^{\circ} 15' 41''$  N., long  $66^{\circ} 3' 28''$  W. Fixed red and white electric light, 64 c. p. incandescent lamps on a three branched