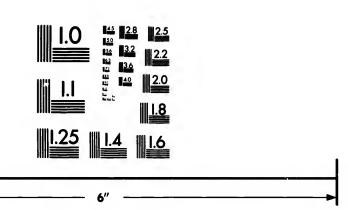


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Winter Navigation of River St. Lawrence.

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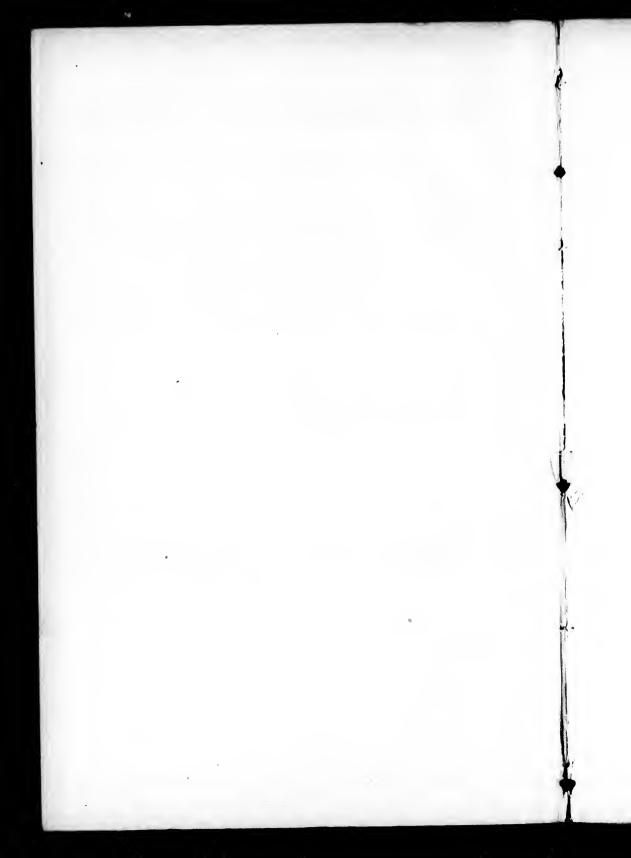
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STEAMER "FOLGER."

- December 25th, 1882.—Monday, at 8 a.m. left Quebec for Murray Bay; at 8.30 a.m., river full of ice as far as Shibbons' Mills; passed Mills at 6 p.m.; no ice to Murray Bay; arrived at Murray Bay wharf at 10 p.m.
- December 26th, 1882.—Tuesday, south wind; little ice; getting eccentric strap repaired.
- December 27th, 1882.—Wednesday, at 8 a.m., east wind, and snowing; ice a mile from wharf; left Murray Bay at 1.05 p.m.; river blocked with ice 4 miles from St. Denis; arrived at St. Denis, 2.30 p.m.; left St. Denis at 3 p.m.; heavy snow-storm; arrived Murray Bay, at 4.45 p.m.
- December 28th, 1882.—Thursday, at 8 a.m., north-east wind and snow-storm; reasons for not crossing to-day, could not get supplied with water in time to get to St. Denis.
- December 29th, 1882.—Friday, at 8 a.m., north wind; river full of ice as far as can see; left Murray Bay at 10.30 a.m., for St. Denis; wind south-west; ice a mile from wharf, 11.30 a.m.; stuck in ice abreast of St. Denis at 1.30 p.m.; snowing, 2.40 p.m.; got clear of ice, not able to go to St. Denis; returned to Murray Bay; arrived, 4.30 p.m.
- December 30th, 1882.—Saturday, 8 a.m., north wind; ice a mile from wharf; left Murray Bay at 11.45 a.m., for St. Denis; ice scattered; arrived St. Denis, at 1.30 p.m.; left St. Denis, 1.45 p.m.; stuck in ice at 2.15 p.m.; got clear at 3 p.m.; returned St. Denis, arrived, 3.45 p.m.
- December 31st, 1882.—Sunday, at 8 a.m., light east wind; river full of ice as far as can see, at 3.30 p.m.; heavy snow-storm; east wind.
- January 1st, 1883.—Monday, at 8 a.m., north wind; river full of ice; battures taken ½ mile from wharf, at 10 a.m.; battures broken away at 5 p.m.; river completely blocked.

- January 2nd, 1883.—Tuesday, at 8 a.m., north wind; river full of ice as far as can see at 4 p.m.; ice 3 miles from wharf; no chance to cross to-day.
- January 3rd, 1883.—Wednesday, at 8 a.m., south-west wind and very cold; river full of ice; at 12 p.m., left St. Denis; ice scattered; arrived Murray Bay, 2 p.m.
- January 4th, 1883.—Thursday, light north wind at 8 a.m.; ice scattered; not required to cross to-day; at 3 p.m., ice very heavy in river.
- January 5th, 1883.—Friday, at 8 a.m., wind north, very cold; left Murray Bay at 12.30 p.m.; ice too heavý to cross; returned to Murray Bay wharf at 1.15 p.m.
- January 6th, 1883.—Saturday, at 8 a.m., strong north wind; river full of fog; cannot see if there is any ice; 10 a.m., clear of fog, river blocked with ice; impossible to leave wharf to-day.
- January 7th, 1883.—Sunday, at 8 a.m., east wind, with heavy snow-storm; river completely blocked with ice.
- January 8th, 1883.—Monday, at 8 a.m., wind west, river blocked with ice; impossible to leave wharf to-day; 5 p.m., east wind, with signs of snow.
- January 9th, 1883.—Tuesday, at 8 a.m., east wind, with snow-storm; river blocked with ice; at 4 p.m., no clear water to be seen; light east wind.
- January 10th, 1883.—Wednesday, at 8 a.m., left Murray Bay for St. Denis; went as far as mid-stream; had to return to Murray Bay; ice too heavy to get to St. Denis; arrived Murray Bay 11.30 a.m.
- January 11th, 1883.—Thursday, at 8 a.m., light north wind; river blocked with ice at 12 p.m.; mending sheet-iron on steamer; 12.30 p.m., wind south-west; not able to leave wharf.
- January 12th, 1883.—Friday, at 8 a.m., no wind; river full of ice at 11.20 a.m.; foggy; left Murray Bay for St. Denis; ice scattered; pilot said too much fog to risk south shore; returned Murray Bay wharf, arrived at 12.30 p.m.; wind north.
- January 13th, 1883.—Saturday, at 8 a.m., wind south-west; river full of ice; left Murray Bay at 12 p.m.; north shore clear; heavy snow-storm with east wind; pilot says snowing too hard to cross; returned Murray Bay, 1 p.m.
- January 14th, 1883.—Sunday, at 8 a.m., north wind, fine weather; lots of ice scattered at 2 p.m.; river clear as far as can be seen.

- January 15th, 1883.—Monday, at 8 a.m., wind north; lots of ice scattered at 12 p.m.; wind south-west; river full of ice; left Murray Bay 12.45 p.m.; had clear water within 4 miles of St Denis wharf; south shore blocked with ice; had to return to Murray Bay; arrived 2.15 p.m.; south wind.
- January 16th, 1883.—Tuesday 8 a.m., river full of fog; north wind; cleaning boiler to-day; it is necessary to do so—engineer deems it necessary.
- January 17th, 1883.—Wednesday at 8 a.m., north-east wind; north shore clear of ice; fine weather; at 12 p.m., river blocked with ice; light north wind; not finished cleaning boiler; at 4.30 p.m., not ready to cross.
- January 18th, 1883.—Thursday, at 8 a.m., wind east; river blocked with ice; no clear water to be seen at 12 p.m.; river completely blocked at 4.45 p.m.; north-east wind.
- January 19th, 1883.—Friday, at 8 a.m., no wind; few openings to be seen at 11.45 a.m.; left Murray Bay for St. Denis; clear water to mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived 1.45 p.m.
- January 20th, 1883.—Saturday, at 8 a.m., light east wind; river blocked at 12 p.m.; river completely blocked with ice, impossible to leave wharf; at 5 p.m., river full of ice; east wind and snowing.
- January 21st, 1883.—Sunday at 8 a m., east wind with rain; river full of ice; snowing heavily at 12 p.m.; wind south-west; ice scattered at 5 p.m.; south-west wind; river full of ice.
- January 22nd, 1883.—Monday, at 8 a.m., wind west; river clear of ice; left Murray Bay at 10.45 a.m., for St. Denis; went as far as mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived 11.25 a.m.; west wind, blowing a gale.
- January 23rd, 1883.—Tuesday, at 8 a.m., wind west; ice scattered at 2.30 p.m.; left Murray Bay for St. Denis; went as far as mid-channel; south shore full of ice; returned to Murray Bay, arrived 3.45 p.m.; blowing gale, west wind.
- January 24th, 1883.—Wednesday, at 8 a.m., no wind; north shore clear; foggy at 12 p.m.; stop valve on boilers not in working order; 1 p.m., stop valve ready; left Murray Bay 2.45 p.m., for St. Denis; went as far as mid-channel; south shore blocked; returned to Murray Bay; arrived at 4.45 p.m.; wind south-west.
- January 25th, 1883.—Thursday, at 8 a.m., wind north, very cold; ice scattered at 10 a.m.; river completely blocked at 3 p.m; not able to leave wharf, ice too heavy.

- January 26th, 1883.—At 8 a.m., wind north; very foggy; north shore clear as far as can see; at 11 a.m. left Murray Bay for St. Denis; went as far as mid-channel; south shore blocked; returned to Murray Bay; arrived 1.30 p.m.; wind south-west, blowing gale.
- January 27th, 1883.—Saturday, at 8 a.m., wind north; left Murray Bay at 12.15 p.m., for St. Denis; went 4 miles and had to return; heavy snow-storm; pilot said too much risk to go to south shore; arrived Murray Bay 1.30 p.m.
- January 28th, 1883.—Sunday, at 8 a.m., light north wind; river full of ice; few openings to be seen; 12 p.m., nocth shore clear; 5 p.m., ice heavy in river.
- January 29th, 1883.—Monday at 8 a.m., wind north; river full of fog; left Murray Bay at 1 p.m., for St Denis; arrived St. Denis wharf at 2.30 p.m.; left St. Denis at 2.40 p.m.; ice scattered; arrived Murray Bay at 4.45 p.m.
- January 30th, 1883.—Tuesday, at 8 a.m., wind north; very foggy; clear on north shore as far as can be seen; 12 p.m., left Murray Bay for St. Denis; arrived at St Denis 2.30 p.m.; left St. Denis 2.40 p.m.; ice scattered; arrived at Murray Bay, 4.15 p.m.
- January 31st, 1883.—Wednesday, at 8 a.m., wind north-east; fine weather; ice scattered; left Murray Bay 1.45 p.m., for St. Denis; arrived ... St. Denis 2.15 p.m.; left St. Denis at 2.25 p.m.; wind south-west; ice scattered; arrived Murray Bay at 3.45 p.m.
- February 1st, 1883.—Thursday, at 8 a.m., wind west, blowing a gale; ice scattered; tank connections leaking; repairing ditto; also oil feeders getting repaired; 12 p.m. river quite clear; tanks and oil feeders not ready at 3 p.m.
- February 2nd, 1883.—Friday at 8 a.m., light north wind; very foggy in river; left Murray Bay for St. Denis at 9.45 a.m.; went within one mile of St. Denis wharf; battures taken heavy; had to return to Murray Bay; arrived 12 p.m.
- February 3rd, 1883.—Saturday, at 8 a.m., wind north, very cold; heavy fog in river; at 10.30 a.m., cleared off; river completely blocked with ice; at 5 p.m., impossible to leave wharf.
- February 4th, 1883:—Sunday, at 8 a.m. strong north-east wind and heavy snow-storm; at 10 a.m., river completely blocked with ice; at 3 p.m., wind south-west, snowing heavy yet.
- February 5th, 1883.—Monday, at 8 a.m. wind west; ice scattered; fine weather at 12 p.m.; wind south-west; river full of ice at 1.15 p.m.; left Murray Bay for St. Denis; ice too heavy; had to return to Murray Bay; arrived at 2 p.m.

- February 6th, 1883.—Tuesday, at 8 a.m., wind south-west, blowing a gale; river clear; left Murray Bay at 9.15 a.m., for St. Denis; went within 3 miles of wharf; south shore blocked with ice; had to return to Murray Bay; arrived 10.45 a.m.; wind south-west, blowing a gale.
- February 7th, 1883.—Wednesday, at 8 a.m., wind south-east, with heavy snow-storm; ice scattered at 12 p.m.; east wind and snowing yet; left Murray Bay at 3.30 p.m. for St. Denis; went 3 miles, and had to return to Murray Bay; snow-storm too heavy; arrived at 4.45 p.m.
- February 8th, 1883.—Thursday, at 8 a.m., wind north and very cold; also foggy; left Murray Bay at 9 a.m.; fog clear; went within 3 miles of St. Denis wharf; had to return; south shore blocked with ice; arrived Murray Bay at 10.45 a.m.; at 2 p.m., heavy snowstorm.
- February 9th, 1883.—Friday, at 8 a.m., wind west, little ice to be seen, and fine weather; left Murray Bay at 9.15 a.m., for St. Denis; went within 3 miles of wharf; south shore blocked with ice; had to return to Murray Bay; arrived at 11.30 a.m.; at 4 p.m., river quite clear.
- February 10th, 1883.—Saturday, at 8 a.m., wind north and very cold; left Murray Bay for St. Denis; river foggy; went as far as midchannel; south shore blocked with ice; returned to Murray Bay; arrived at 12.30 p.m.; at 4 p.m., foggy and south-west wind, blowing a gale.
- February 11th, 1883.—Sunday, at 8 a.m., wind north, fine weather; ice scattered at 1 p.m.; wind south-west and heavy snow-storm; at 5 p.m., still snowing.
- February 12th, 1883.—Monday, at 8 a.m., wind north, blowing a stiff breeze; ice scattered; at 1 p.m., left Murray Bay for St. Denis; went as far as mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived 2.45 p.m.; wind south-west.
- February 13th, 1883.—Tuesday, at 6.30 a.m., wind north-west; left Murray Bay at 7 a.m., for St. Denis; at 8 a.m., wind west, 4 miles of St. Denis; south shore blocked with ice; had to return to Murray Bay; arrived at 8.30 a.m.; at 12 p.m., wind south-west, blowing a gale; at 5 p.m., still blowing.
- February 14th, 1883.—Wednesday, at 8 a.m., wind south-west, fine weather; north side clear of ice; at 12 pm., wind north-west; at 1.30 p.m., left Murray Bay for St Denis; arrived at St. Denis at 2.50 p.m.; met scattered ice; left St. Denis at 4.45 p.m., for Murray Bay; arrived at 6 p.m.

- February 15th, 1883.—Thursday, at 8 a m., wind north-east, snowing; river full of ice at 11.30 a.m.; ice forming heavy against steamer at wharf; broke all our ropes; made fast to wharf again with much difficulty at 1.05 p.m.; steam joint on safety valve broken; necessary to repair it; not able to leave wharf to-day.
- February 16th, 1883.—Friday, at 8 a.m., light breeze of north wind; ice scattered at 10 30 a.m.; river blocked with ice at 2.30 p.m.; steam joint broken again; not able to leave wharf at 4.45 p.m.; light breeze from north-west.
- February 17th, 1883.—Saturday, at 8 a.m., wind south-west and rain; north shore blocked with ice at 12 p.m.; blowing a gale; ice clear; left Murray Bay at 2.30 p.m., for St. Denis; went 1 mile and had to return to Murray Bay; ice too heavy to cross; artived at 3 p.m.
- February 18th, 1883.—Sunday, at 8 a.m., wind south-west; no ice to be seen at 2 p.m.; blowing a gale; at 5 p.m., still blowing.
- February 19th, 1883.—Monday, at 8 a.m., wind north-west; ice scattered; left Murray Bay at 9 a.m., for St. Denis; went 7 miles; at 10 a.m., got stuck in ice; got clear of ice at 1.30 p.m.; returned to Murray Bay; arrived at 2.30 p.m.; wind west, blowing a gale.
- February 20th, 1883.—Tuesday, at 8 a.m., wind north, and very cold; river full of fog; left Murray Bay at 9.45 a.m.; fog cleared off; went 2 miles and had to return to Murray Bay; ice too heavy to cross; arrived at 11.45 a.m.; at 3 p.m., wind south-west; at 5 p.m., river full of ice.
- February 21st, 1883.—Wednesday, at 8 a.m., wind east and snowing; ice scattered; left Murray Bay at 9.30 a.m., for St. Denis; went 5 miles and had to return to Murray Bay; south shore blocked with ice; arrived at 11 a.m.; at 3 p.m., river full of ice; wind south-west; at 5 p.m., still blocked.
- February 22nd, 1883.—Thursday, at 8 a.m, wind north; ice scattered; fine weather; left Murray Bay at 9 a.m., for St. Denis; went within 2 miles of wharf; south shore blocked with ice; had to return to Murray Bay; arrived at 11.15 a.m.; at 3 p.m., wind south-west; at 5 p.m., blowing stiff breeze.
- February 23rd, 1883.—Friday, at 8 a.m., wind north-west, and very cold; north shore clear of ice; left Murray Bay at 9.25 a.m., for St. Denis; went within one mile of St. Denis; had to return to Murray Bay, not able to reach St. Denis wharf; arrived Murray Bay at 11.45 a.m.; at 3 p.m., wind north-west; at 5 p.m., blowing a fresh breeze.

- February 24th, 1883.—Saturday, at 8 a.m., wind north-west; ice scattered; left Murray Bay at 9.30 a.m., for St. Denis; went 6 miles and had to return to Murray Bay; south shore blocked with ice; arrived at 11 a.m.; at 3 p.m., wind south-west and fine weather; at 5 p.m., blowing fresh breeze.
- February 25th, 1883.—Sunday, at 8 a.m., wind east and snowing; north shore clear of ice as far as can see; at 12 p.m., wind southwest and still snowing; at 3 p.m., little ice to be seen; at 5 p.m., no change in the weather.
- February 26th, 1883.—Monday, wind north-east, ice scattered; left Murray Bay at 4.45 a.m. for St. Denis; arrived St. Denis at 12.15 p.m.; left St. Denis at 12.45 p.m.; arrived Murray Bay at 2.15 p.m.; at 5 p.m. wind north-east.
- February 27th, 1883.—Tuesday, at 8 a.m., wind north-west, and very cold; no ice to be seen on north shore; left Murray Bay at 2.20 p.m. for St. Denis; went within two miles of St. Denis; had to return; south shore blocked with ice; arrived Murray Bay at 2.30 p.m.; at 5 p.m. wind west.
- February 28th, 1883.—Wednesday, at 8 a m., wind north-east, and snowing; left Murray Bay at 1.15 p.m. for St. Denis; south shore blocked with ice; had to return to Murray Bay; arrived at 3 p.m.; at 5 p.m. wind south-west, and snowing.
- March 1st, 1883.—Thursday, at 8 a.m., wind north, and some fog in river; no ice to be seen; left Murray Bay at 12.45 for St. Denis; went five miles; had to return; south shore blocked with ice; arrived Murray Bay at 2.20 p.m.; at 5 p.m. wind south-west.
- March 2nd, 1883.—Friday, at 8 a.m., wind north-east; north shore clear of ice; left Murray Bay at 1 p.m. for St. Denis; at 1 p.m. went 8 miles; had to return; south shore blocked with ice; arrived Murray Bay at 2.15 p.m.; at 5 p.m. wind north-east.
- March 3rd, 1883.—Saturday, at 8 a.m., wind north, and very cold; left Murray Bay at 10.30 a.m. for St. Denis; arrived St. Denis at 12 p.m.; left St. Denis at 12.15 a.m. for Murray Bay; at 1.15 p.m. ice scattered; at 5 p.m. wind north-east, and snowing.
- March 4th, 1883.—Sunday, at 8 a.m., wind north-west, and very cold; ice scattered; at 3 p.m. river full of ice; at 5 p.m. wind north.
- March 5th, 1883.—Monday, at 8 a.m., wind north, and very cold; north shore clear of ice; left Murray Bay at 12.45 p.m. for St. Denis; went four miles; had to return, too much ice to cross; arrived Murray Bay at 2 p.m.; at 5 p.m. wind west.

- March 6th, 583.—Tuesday, at 8 a.m, wind north, very cold, river foggy; at 12 p.m. river completely blocked with ice; at 3 p.m. snowing, not able to leave wharf, too much ice; at 5 p.m. heavy snow-storm, and east wind.
- March 7th, 1883.—Wednesday, at 8 a.m., wind east, and snowing; river blocked with ice at 12 p.m.; river completely blocked at 3 p.m.; impossible to leave wharf through ice; at 5 p.m. wind west, and blowing a stiff breeze.
- March 8th, 1883.—Thursday, at 8 a.m., wind north; ice scattered on north shore; left Murray Bay wharf at 10.30 a.m. for St. Denis; went three miles, too much ice to cross; returned to Murray Bay; arrived at 11.15 a.m.; at 5 p.m. river clear of ice as far as can see; wind north.
- March 9th, 1883.—Friday, at 8 a.m., wind north, fine weather; ice scattered; left Murray Bay, at 9.30 a.m. for St. Denis; went as far as mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived at 11.15 a.m.; at 5 p.m. wind S. W., blowing a gale.
- March 10th, 1883.—Saturday, at 8 a.m., wind east; river full of ice, but breaking; left Murray Bay at 9.15 a.m. for St. Denis; arrived St. Denis at 11 a.m.; left St. Denis at 11.15 a.m.; got stuck in ice at 12 p.m.; got clear of ice at 1.45 p.m.; arrived Murray Bay at 3 p.m.; at 5 p.m. east winds, and snowing.
- March 11th, 1883.—Sunday, at 8 a.m. wind south-west, and snowing; ice scattered on north shore at 12 p.m.; clear and fine at 5 p.m.; north-east wind, blowing a gale.
- March 12th, 1883.—Monday, at 8 a.m., wind south-west, blowing a gale; no ice to be seen; left Murray Bay at 11 a.m., for St. Denis; went four miles, had to return to Murray Bay; too much ice to cross; arrived at 12.30 p.m.; at 3 p.m., river full of ice; at 5 p.m., wind south-west.
- March 13th, 1883.—Tuesday, at 8 a.m., wind south-west, fine weather; no ice to be seen on north shore; left Murray Bay at 12.05 p.m., for St. Denis; went as far as mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived at 2 p.m.; at 5 p.m., wind west.
- March 14th, 1883.—Wednesday, at 8 a.m., wind south-west; plenty of ice in river; left Murray Bay at 1.10 p.m., for St. Denis; went as far as mid-channel; south shore blocked with ice; had to return to Murray Bay; arrived at 3.15 p.m., and snowing hard; at 5 p.m., wind west.

- March 15th, 1883.—Thursday, at 8 a.m., wind north-east; soft weather; ice scattered on north shore; left Murray Bay at 8.10 a.m., for St. Denis; arrived St. Denis at 9.35 a.m.; left St. Denis at 10.15 a.m. for Murray Bay; arrived at 11.45 a.m.; and snowing at 5 p.m.; wind north-west.
- March 16th, 1883.—Friday, at 8 a.m., wind north-west; north shore class of ice; left Murray Bay at 8.30 a.m. for St. Denis; went within 300 yards of St. Denis wharf; not able to reach wharf on account of ice; had to return to Murray Bay; arrived at 11.40 a.m.; at 5 p.m., wind north.
- March 17th, 1883.—Saturday, at 8 a.m., wind north; no ice to be seen on north shore; left Murray Bay at 8.45, for St. Denis; went 4 miles, had to return to Murray Bay; south shore blocked with ice; arrived at 10.10 a.m., at 3 p.m., light south-west wind.
- March 18th, 1883.—Sunday, at 8 a.m., wind south-west, blowing a gale; no ice to be seen in the river; at 3 p.m., raining; at 5 p.m., snowing.

JAMES MARTIN, MASTER.

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