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Technical and Bibliographic Notes/Notes techniques et bibliographiques

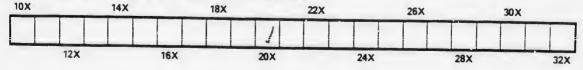
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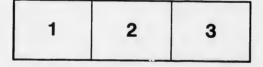
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REPORT OF COMMITTEE OF THE St. John Board of Grade

PILOTAGE AT ST. JOHN, N. B.,

WITH

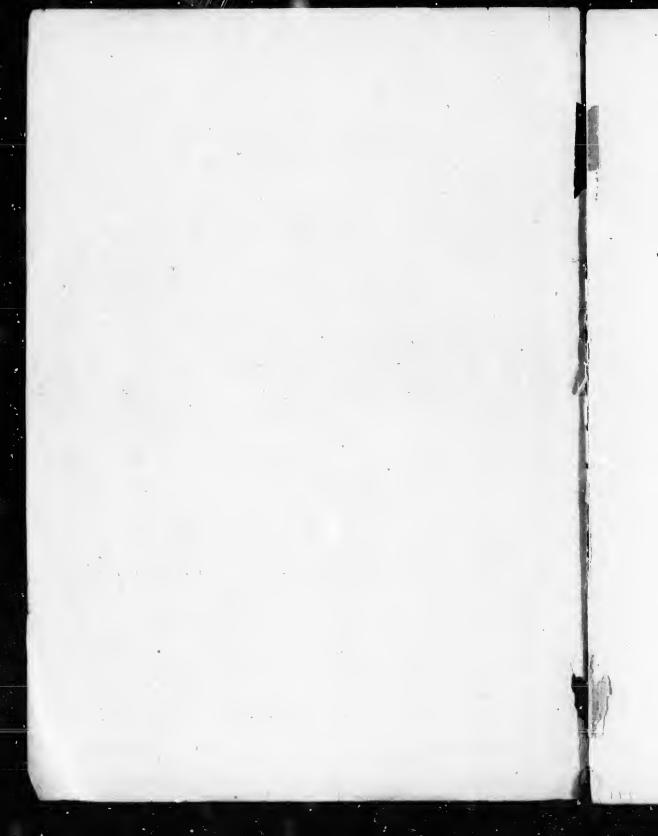
APPENDICES, INCLUDING EXTRACTS FROM REPORT ON

THE BAY OF FUNDY AND THE HARBOR OF ST. JOHN, N. B.

ST. JOHN, N. B., CANADA.

1894.





REPORT OF

COMMITTEE OF THE

St. John Board of Grade,

CONSISTING OF

Messrs. W. M. JARVIS, R. CRUIKSHANK, T. H. HALL, G. F. BAIRD, M. P., and S. SCHOFIELD,

ON

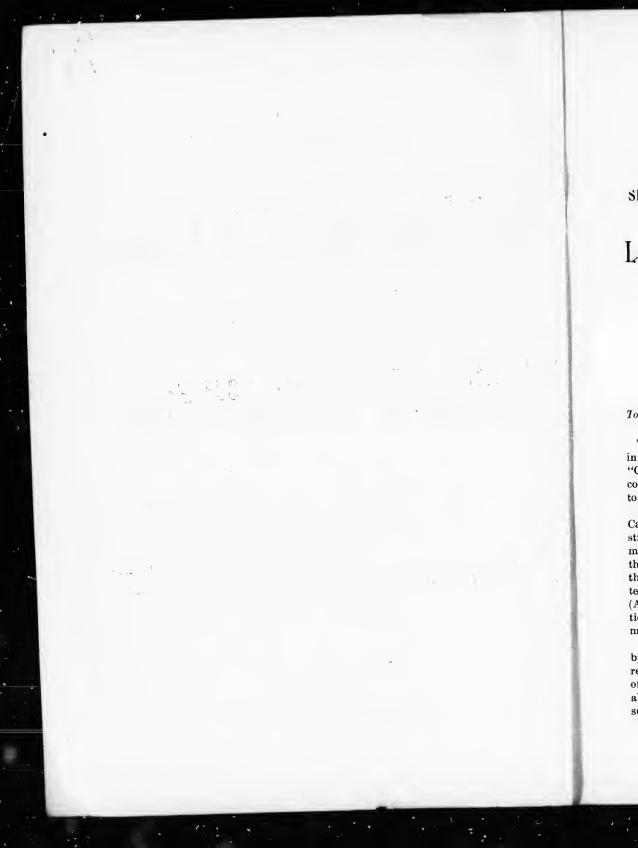
THE LOSS OF THE BARQUE "CURLER"

AND

PILOTAGE AT ST. JOHN, N. B.,

WITH APPENDICES, including extracts from Report of Special Committee on the Bay of Fundy and Harbor of St. John, N. B., presented February 1887.

> ST. JOHN, N. B. PROGRESS ELECTRIC PRINT. 1894.



REPORT

OF A

SPECIAL COMMITTEE OF THE ST. JOHN BOARD OF TRADE

ON THE

LOSS OF THE BARQUE "CURLER,"

PILOTAGE AT ST. JOHN, N. B.

Trade.

The committee appointed to attend the investigation as to the loss of the barque to mean "any person not belonging to a "Curler" and to report upon matters ship who has the conduct thereof." The connected with pilotage at St. John, beg general rule of law with regard to the to submit the following report.

Capt. W. H. Smith, R. N. R., under in- liament, under a penalty, to place his structions from the department of ship in the charge of a pilot and does so marine and fisheries, at the request of accordingly, the ship is not to be conthe board of trade, was attended sidered as under the management of the throughout by members of the commit- owners or their servants; but when it is tee. Copies of Capt. Smith's decision in the option of the captain to take a (A) and of his remarks at the termina- pilot or not, as he may think fit, and he tion of the investigation, (B), are sub- does take a pilot, the pilot so taken is to mitted herewith.

services of a pilot, he could not surren- vessel.

To the Council of the St. John Board of der his command, and was not relieved from all responsibility on that account.

3. The word "pilot" has been defined engagement of a pilot seems to be that 1. The public investigation held by when a captain is bound, by act of parbe considered as the servant of the own-2. It will be seen that stress was laid ers, and, as such, they are responsible by Captain Smith upon the duties and for his misconduct. And, even though responsibilities of the captain and ship's there be a pilot on board, the captain is officers; and he states very clearly that, bound, in a case of obvious danger, to although the captain might engage the interfere in the management of the

4. In the case of the "Curler," the pilot- they might deem expedient. In 1861 an sense at St. John. in certain limits, must be paid for by all In 1873 the Pilotage Act, passed by the vessels not specially exempt, whether Dominion parliament, made provision accepted or not. though it appeared that the captain and and for the appointment of seven pilot the mate of the "Curler" had retained commissioners to be the pilotage authortheir presence of mind and acted for the ity of the district of St. John. Two of best, both when the disaster became im- these commissioners are to be chosen by minent and after it occurred, they were the City Council, t o by the council of the held responsible for their previous sub- board of trade, and three by the governor mission to the pilot's control. The cap- general in council. This act was amended tain, for going below without leaving at subsequent sessions of the legislature, orders with the officer cn deck to ac- and finally in 1886 the provisions respectquaint him with any circumstances of ing pilotage were revised and embodied importance that might occur; and in Chapter 80 of the revised statutes of the mate for not communicating with Canada which is now in force. the master when the pilot persisted in sailing towards a narrow channel instead of following the wider thorough fare; which, had it been taken, though some inconvience to the pilot himself might have ensued, would, so far as appeared, and as was the case with the two other vessels which sailed the same afternoon with fine weather and a fair northeasterly wind, (and without pilots), have carried the barque in safety towards the open sea.

2

5 Under the City Charter of St. John the Mayor, Aldermen and Commonalty were made the conservators of the water of the river, harbour and bay of the city, and in 1840 they were authorized by the legislature of New Branswick to make laws and ordinances for the regulation of the Branch Pilots of the port, in respect to rates of pilotage to be taken by them as distance money; extend- \$40. ing to such parts of the Bay of Fundy in connection with the harbor as erating licensed pilots.

age was not compulsory. There is in- act was passed to provide that pilots deed no compulsory pilotage in the strict carried to sea, and beyond the limits of It is open to any their engagement, should receive \$2 per vessel to refuse the services of a pilot, day, in addition to the pilotage, for every although those services, if proffered with- day of their enforced absence from home. And, therefore, al- for fixing the limits of pilotage districts

> 6. Under this act the pilotage authority has power by by-law,

1. To determine the qualification of persons applying to be licensed as pilots.

2. To make regulations as to pilot boats and respecting the distribution of the earnings of pilots and pilot boats.

3. To provide for aiding in the establishment of companies for the support of pilot boats.

4. To license pilots and apprentices.

5. To fix the terms and conditions of grauting licenses.

6. To make regulations for the government of licensed pilots.

7. To make rules for punishing any breach of regulations, either by the withdrawal or suspension of the license, or by the infliction of a penalty not exceeding

8. To fix and alter the mode of remun-

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9. To provide for the compulsory re- steamships coasting or trading with New tirement of licensed pilots having attain- York or U.S. ports to its north, vessels ed the age of 65 years, unless thereafter registered in Canada of not more than licensed from year to year.

tirement of licensed pilots proved to a certificate authorizing him to pilot his be incapacitated before attaining such ship within the pilotage limits, and such age.

decision of disputes respecting pilotage ; governor in council may determine, are and

12. To establish funds for the relief of superannuated or infirm licensed pilots, of 125 tons and under are entirely exor of their wives, widows or children.

confirmed by the governor in council before they can take effect.

7. The pilotage authority is required by the act to make yearly returns of the names and ages of licensed pilot-, the pilotage dues in force, the amount of dues received and the receipt and expenditure of moneys received in respect of pilots or pilotage.

The act also contains provisions for the licensing of pilots and for their guidance and protection, and for the recovery of pilotage dues.

8. Under section 57 of the Act no owner or master of any ship can be compelled to employ a pilot, but under other sections the payment of pilotage dues is, subject to certain exemptions, made compulsory within limits or pilotage districts established by order in council, even though the pilot offering his services may not be employed. When therefore the term compulsory pilotage is used, it must be understood to mean, not that the vessel is compelled to take a pilot, but that such services, when proffered, must be paid for, whether the securities. The Committee notice in the pilot may be taken or not.

120 tons (see 56 V, cap. 20, A. D. 1892), 10 To provide for the compulsory re- vessels of which the master or mate has vessels not exceeding 250 tons as the pil-11. To provide for the adjustment and otage authority with the approval of the exempt from compulsory pilotage. At present all vessels registered in Canada empted by the pilotage authority, and All such by-laws must however, be also all vessels outward bound of whatever tounage from outside of Partridge Island.

3

10. All sums received for pilotage dues by the pilotage authority are to be applied,

(1) In paying all expenses incurred in obtaining payment of the same;

(2) In payment for the pilots' services such amount as is required by by-law; and

(3) The residue is to be carried to the pilot fund of the district.

11. The pilot fund is to be applied,

(1) In payment of such necessary expenses as are duly incurred in the administration of such fund, and

(2) In the payment of superannuation allowances or other relief, for the benefit of licensed pilots '.capacitated by age, infirmity or accident, and of the widows and children of licensed or • incapacitated pilots.

12 All sums of money belonging to the pilot fund not employed in such payments are to be invested in Government last report of the St. John Pilotage 9. In the pilotage district of St. John, Authority that the reserve so invested, ships of war or in the public service, -now deposited in the Dominion Sav-

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ings Bank-amounts to \$\$,111.86, while pendent of any desire to satisfy those there was also on the 31st December they serve, but are also deprived in a last a credit balance of \$2075.65 at the degree of the incentive to labor and Bank of New Brunswick on current ac- thrift which the feeling of entire responcount.

13. It will be seen from what nas been stated that while in other avocations of life, the relations of the employ- secure, as far as possible, protection to er and the employed are left generally life and property, by providing a class to be determined by the ordinary laws of men better qualified than ordinary of supply and demand, except so far as mariners to take charge of ships in such relations may be affected by organ- places where, from local causes, naviizations on the one side or the other, gation is atten led with more than comeither for the lessening of charges thou- mon difficulty. ght to be exorbitant, or for the securing a higher rate of pay, in the case of petnation of a system which assures pilotage an amount larger than the cus- wages and pension to a certain class of tomary rate of wages is collected from men, necessarily in some degree at the the vessel. And this amount may be cost of the rest of the community, could collected irrespective of services reader- not, in the opinion of the committee, be ed, and whether such services are really justified. And they regret to have to needed or are not. From the fund thus add that there seems to be a very genformed the pilots are paid at the rate eral opinion that this object is not atfixed for their services by the commis- tained by the present pilotage system, sioners, and the residue forms a super- that that system is fraught with many annuation and benefit fund to meet cases evils, and that it has been handed down calling for relief.

class in the community. Each pilot stances which now exist. may receive as wages for services rendered or proffered more or less accord- the assistance of lighthouses, fog whistles, ing to his activity or good fortune in se- buoys, charts, printed sailing directions, curing some incoming vessel; but he can and of steam tugboats was not available, always feel assured that there is a fund and when masters and mates of vesseld in reserve from which he or his family were not required to submit to a strict will be assisted should need arise.

careful supervision in its administration one of very general importance to shipor very great evils may result. Men ping, his services were eagerly sought who teel that their employment, or at after and he was usually employed; but least their wages, whether they are em- while the standard among ship's officers ployed or not, are so far assured, and has advanced, and important aids to that a reserve fund is being accumu- navigation have been provided, the lated for future support, are not only compulsory system of pilotage, as ap-

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sibility for the well being of the family tends to create.

16. The object of the system is to

17. Failing some such object the perfrom a past generation almost unaltered 14. The pilots thus form a protected without regard for the changed circum-

18. In former days, no doubt, when examination before they were allowed • 15. Such a system calls for the most to serve, the office of the pilot was rendered to a very great extent inde- plied at St. John, appears to a great ex4.61

those in a r and sponamily

is to on to class inary ps in navicom-

persures ss of t the could e, be e to genot atstem, any lown ered cum-

vilen stles. ions, able. sseij trict wed Was hipight but cers s to the apextent to ignore such advances and helps; licensed pilots vary from 36 to 68, but the to the committee, in which vessels are it has been stated to them by more than compelled to pay for pilots' services, one person, whom they believe to be rewhere their employment is a farce, or liable, that the ages given in the official worse, since the officers of the ship are return are not in all cases correct, and as well acquainted with local surround- that several of the men are from three ings and as fully qualified to navigate to five years older than is there stated. the vessel as the most efficient pilot on This is a matter of some importance the list; while it is broadly stated that when it is remembered that under secall pilots on the list at St. John are not so tion 32 of the pilotage act every pilot upefficient, and that men have been re- on reaching the age of 65 years must detained among the number to whose ~ ployment shipowners seriously obja-

ing for or against some particular class importance in its bearing upon the pilot of vessels seem to have been brought commissioners themselves. The comin. Thus the committee have been in- mittee feel loth to suppose that the comformed that the coal barges towed from missioners would knowingly permit the Parrsboro by powerful tugboats in con- sending forward of false restance; but on nection with the recently developed the other hand, if the statements made traffic from that place to St. John, have to the committee are correct, the actual been called on to pay pilotage dues; and ages of the men are very generally this has been defended on the groand known, and such a want of accuracy in that this method of carriage has inter- the returns would seem to show a fered with the owners of the small vessels lack of care in securing the information which formerly carried on the trade, which under the Act the commissioners The committee are strongly of opinion are bound to furnish to the marine that the matter of pilotage should department at Ottawa from year to be dealt with on its merits, and that year. the system should not without the ested in any particular branch of ship- vices are regularly engaged by the Furing or trade.

pilots resident at St. John, of whom one divided share and share alike among the has been suspended in connection with pilots on the list, regardless of their dothe "Curler" disaster; and one pilot in ing any work or not. The difference of addition is specially licensed for Mus- \$204.40 with a further sum of \$1995.36 or quash only.

tawa by the St. John Pilotage Authority men. It is stated, however, that the indi-

and repeated cases have been furnished committee regret to have to report that liver up his license, and can thereafter be granted a new license only from year 19. Further the question of discriminat- to year. It is a matter of even more

22. It appears from the returns that gravest necessity be strained to protect the amount received for pilotage dues any class in the community, whether it during 1893 was \$25,893.83. From this be the pilots themselves or those inter- sum in the case of one pilot whose serness line of steamships, an amount of 20. There are at present 27 licensed \$1,030.15 is taken, of which \$825.75 is in all \$2200.36 is carried to the pilot fund, 21. According to the return made to Ot- leaving \$23.693.47 for the wages of the to the 31st December last, the ages of the vidual earnings vary greatly in different

cases, some pilots earning as much as tion of the pilotage dues now collected \$1600 in a year and others a bare living. at the port of St. John is levied upon proffered from time to time.

last year to the pilot fund was further ing to and leaving St. John, are forced increased by \$200 charged for licenses to to pay largely in excess of the dues thirty pilots at \$5.00 and five pilot boats charged to larger vessels. It is claimed at \$10.00 each, and by \$274.25 for interest on the Savings Bank deposit, making has no need whatever of the services of a total of \$2674.61. The payments were for pensions \$1710, funeral expenses of two pilots \$40, auditor \$25, stationery \$19.70, office rent \$100, and salary of John. secretary treasurer \$800, in all \$2694.70. The payments therefore exceeded the been further represented that the ship-

24 Five districts are established for pilotage inwards, ranging from Partridge Island to the extreme limits of the Bay of Fundy. Outwards no vessel is required to take or pay for the services of the pilot, beyond outside of Partridge Island. Inwards all vessels not exempt are required to pay for a pilot's services if proffered any where within the district limits, whether accepted or in May last a scheme was submitted by

and outwards on vessels not exempt are smaller vessels, and increasing them in regulated by the draught of water, and the case of vessels of upwards of 400 tons the dues for transporting vessels within by a sliding scale, more than doubling the harbour according to the tonnage in the dues in the case of the larger ships. each particular case.

Halifax, N. S., where the pilotage dues that so proposed (D) are submitted hereare regulated altogether by tonnage; and with. The committee fear that the adthe committee are informed that the ditional burthens thus proposed on the charges are very much less there than at larger vessels will prove seriously detri-St. John.

representations have been made to the fore the Deputy Minister in 1891 that

This depends of course on the energy vessels of from 125 to 300 tons, engaged and activity of the men in seeking for in the coasting or the West India trade, vessels to which their services can be which on account of their relatively larger draught of water in proportion to 23. The residue of \$2200.36 carried tonnage, and their more frequently comalso that the class of vessels referred to pilots, as the masters are, from their frequent visits, thoroughly conversant with the Bay of Fundy and the harbor of St.

28. They understand also that it has ment of lumber (including piling) from the port of St. John is seriously prejudiced by the pilotage charges, as this business is carried on in competition with vessels from Calais, Bangor, and Portland, Me., and also from other ports in the Bay of Fundy, where no regulations for the compulsory payment of pilotage dues are in force.

29. The committee are informed that the commissioners to the Department of 25. At present the pilotage dues inwards Marine for reducing the charges to This scheme has not yet however been 26. A different system prevails at approved. The present scale (C) and mental to the traffic of the port. It was 27. The committee understand that stated in the evidence of Pilot Rogers bemarine department that an undue por- this would be the case. No doubt some

collected ed upon engaged ia trade, elatively ortion to tly comforced he dues claimed erred to vices of ieir frent with of St.

it has e ship-) from ejudicbusin with Ports in the ns for e dues

that ted by ent of ges to em in 0 tons bling ships. been) and heree adn the letriwas s bethat some

relief to the smaller vessels and some when they become of sufficient age additional burthens placed on the larger otherwise. The committee were at a loss sailing vessels or steamships coming to tr understand what ground existed for St. John, everything should be done to the proposed advance, until circumstanlessen or remove all such restrictions ces came to their knowledge, which they not absolutely necessary as may already feel it their duty to bring at once to the exist, and that every property owner attention of the council and the board. and resident in the City has a vital inment of the traffic of the port.

to exist. that the Board of Trade address a peti- incurred, "in obtaining payment," next that the proposed advance in the charges lastly, any residue must be carried to for pilotage be not approved.

crease of pilotage dues in the case of payment of "such necessary expenses the larger vessels thus proposed was in- as are duly incurred in the administratended so much to add to the earnings tion of such fund" and then in the of the men, who have so far as the com- payment of superannuation allowances mittee are aware, made no claim for or other relief to pilots incapacitated, higher pay, as to swell the pilot fund, or to the widows and children of which, under the Act, is intended for pilots. The 14th section of the Act pilots incapacitated by age, infirmity directs that the pilotage authority may, or accident, or the widows and children with the sanction of the Governor in of pilots. The reserve held in con- Council, appoint a Secretary and Treasnection with this fund is already of urer, and pay him such salary or considerable amount. It is held not for remuneration, out of pilotage dues or the purpose of making permanent grants, fees for licenses received by them, as but for providing terminable annuities, they may see fit, and may with such which will cease from time to time sanction, and out of such funds, pay any as the beneficiaries may be removed other "necessary expenses" of conduct-

increase of revenue would result, but to care for themselves. The fund is the committee cannot see that this in- likely to increase rather than diminish crease is required, and they are strongly under the present system, as the numof opinion that, so far from the smaller ber of pilots lessens or the claimants vessels being relieved only at the cost of upon the fund are removed by death or

32. There can be no doubt, looking at terest in the lessening or removal of all the terms of the Pilotage Act, that it was such needless charges, and the develop- contemplated that the commissioners should receive no pay or remuneration 30. The committee think that no for their services. Provision is expressly increase in the present charges should made for the salary or remuneration of be allowed, unless the most serious ne- the Secretary and Treasurer, but beyond cessity for such increase is shown this the funds are carefully guarded. They are of opinion that Under the 62nd. section of the Act "All there is no such necessity for the sums received" for pilotage dues shall changes proposed; and they recommend be applied, first in paying all expenses tion to the Governor in Council asking in payment of the pilot engaged, and, the pilot fund. "Under the 91st. section 31. It cannot be supposed that the in- the pilot fund must be applied first in by death, or, in the case of children, ing the pilotage business of the district.

No provision whatever for the payment law was passed by them on the 1st of the commissioners is contained in the March last as follows:-Act. Were the matter at all uncertain the provision authorizing a salary for of the St. John pilot commissioners." the Secretary forbids by implication any other and unauthorized payment of the to be repaid any expenses necessarily kind.

munity instances as, in the case of the however that no commissioner shall re-Hospital Commissioners, and the School ceive more than one hundred dollars, Trustees, of laborious public duties per- or the chairman more than two hundred formed without thought of fee or reward; dollars, for their expenses, in any one and it is evident that the framers of the year." Pilotage Act supposed that commissioners would be found sessed of sufficient public spirit the to supervise the system out charge, the more duties being performed by the paid sec- who gravely reported that there was no retary treasurer appointed for the pur- legal objection to its being approved. pose.

ever, that it was recently proposed that minister of marine and fisheries, and on each commissioner should have an al- March 28th an order in conncil issued, lowance from the funds received, and sanctioning the repayment to the comthe chairman double the amount paid to missioners, of expenses necessarily inany other commissioner, that one of the curred in the discharge of their duties. commissioners protested, and the matter was referred to the then deputy min- Halifax, the committee notice in the ister of justice at Saint John, who ex- printed accounts of the Halifax authorpressed an opinion that such allowances ity, published at page 209 of the supplewere unauthorized by the act; but that ment of the annual report of the departnevertheless the taking of such allow- ment of marine for the year ending 30th ances by the commissioners has been June, 1892, that, while the amount carpressed.

that this charge was exaggerated or years" is but \$11.25, the sum of \$1125.00 groundless, were it not that the state- is really required, instead of \$11.25, to ments made to them are confirmed by balance their account; and this larger the official correspondence, copies of amount appears to have been taken from which (E) are submitted herewith.

commissioners had been told that their has come to light before there had been taking an allowance for their services time sufficient for any such allowances from the pilot fund was illegal, a by- to be taken here.

"By-law to provide for the payment

"Each commissioner shall be entitled incurred by him in the discharge of his 33. There are not wanting in the com- duty, as such commissioner; provided

37. This so-called by-law was pos- then submitted to Mr. Newcombe, deputy minister of iustice. with- who was reminded of some similar laborious action at Halifax in October, 1891, and Under such circumstances no doubt the 34. The committee are informed, how- by-law seemed harmless enough to the

38. In connection with the reference to ried out for "necessary expenses attend-35. The committee might have hoped ing meetings and investigations two the fund. It is perhaps fortunate for the 36. It would appear that after the St. John commissioners that the matter

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payment ers." e entitled cessarily ge of his provided shall redollars, hundred any one

w was wcombe, justice, similar .891, and e was no pproved. oubt the gh to the , and on il issued, he comarily induties. erence to in the authore supplee departling 30th unt cars attendons two \$1125.00 \$11.25, to is larger ken from e for the e matter ad been owances

39. It has been stated that it was in contemplation that this "repayment" \$4.00 to each commissioner for every meeting attended throughout the year.

commissioners should be paid for or port. should not. But they certainly think that no such services should be paid for committee it is plain that there is a unless the payment is distinctly pro- strong feeling of dissatisfaction with the vided for by law, and that no public ser- present commission, and that the St. vant, who considers himself insufficiently John pilotage authority has not been paid, should be permitted to remnnerate able to retain the confidence of the bushimself from the funds under his charge. iness community generally.

41. It will be noticed that the power to pass by-laws to be confirmed by the editorial appeared in a leading St. John governor in council is limited by the newspaper calling for attention to the 15th section of the Pilotage Act to certain pilotage regulations of the port in the inspecified cases among which the pay- terests of trade and of justice, and menment or repayment of expenses is not tioning a gross case of injustice which included. Under the 14th section the was said to have occurred. This drew piletage authority may, with the sanc- out a reply from the chairman of the tion of the governor in council, and from commission characterizing the complaint the pilotage dues or fees for licenses, pay as "bosh"; and letters from the late Mr. the "necessary expenses" of conducting Thomas S. Adams and others, protesting the pilotage business of the district. vigorously against the injustice of the This does not, however, contemplate a pilotage regulations in force. by-law, nor is one required. Without a by-law the pilotage authority can pay tion of pilotage was very fully discussed "necessary expenses" with the proper before the Board of Trade, and it was sanction. justify them, under the guise of the sory system was unnecessary so far as "payment" or "repayment" of necessary the protection of life and property was expenses, in appropriating the funds, in concerned, and that it is unfair to ship part or in whole, to themselves. In the owners to compel them to pay for serlatter section it is not a by-law that is to vices which they may not require. It be sanctioned, but an act. It is surely was stated also that, as it was not comindeed a perversion of language to claim pulsory on the pilots to cruise in search that where a statute provides that ex- of vessels, as is the case at Bospenditures may be made with a certain ton and Quebec, their services were not sanction, the sanctioning power can part available when most required, and that with its control by a sweeping confirma- during the winter season, and no doubt tion or concession in advance.

42. The saddest feature of the case is that these payments were proposed to should take the form of an allowance of be made at the cost of the superannuated pilots, the widow and the orphan, unless indeed they could be met by in-40. The committee do not enter upon creasing the pilotage dues, as was imthe question whether services of the mediately afterwards proposed, and kind supposed to be rendered by the thus further burthening the traffic of the

43. From the statements made to the

44. As far back as January 1883 an

45. Again, in January 1887, the ques-No by-law could possibly openly claimed that the present compuloften during stormy and foggy weather

at other times of the year, there were no experience would suffice to enable pilot boats to be found at the main en- a master to pilot a vessel up the trance of the bay, or until the vessel had Bay of Fundy, and into the harbor of found her way nearly up to Partridge St. John, that the pilot boats were not Island. It was urged that as no bond out in leavy storms or thick weather, was taken from the St. John pilots, as and that if the system of was the case at Halifax elsewhere, there was no pecuniary responsibility, it was charged that the Commissioners ble pilots would still be employed. ignored the reasonable wishes of the shipowners, and refused to give reasons business was not skilfully or even fairly for the course they pursued.

quiry into the pilotage question was held owners of the port were ignered. by the Deputy Minister of Marine, Mr. William Smith, at the rooms of the St. the commissioners do not appear to have John Board of trade. The enquiry was conducted with much ability, and the ages of the pilots to the Marine Departinformation given was very full and important.

nesses that the present system of compul- fore the official investigation was held, sory payment for pilotage tended to the that the Pilot concerned was a competbuilding of badly shaped or inferior entman, and in his sixty years this was vessels, so constructed in order to come the first time anything had happened within the exemption of the rules.

oured to get clear of pilots by hauling out the evidence of the Secretary to the in the bay so as to make it appear that commissioners, that the same Pilot had they were going up the bay, instead of been censured by the commissioners in making for St. John. Instances were connection with the loss of the "Apollo," given of bargains made with the pilots to escape pilotage in whole or in part; three months in the case of the strandand it even appeared that in one case, ing of the schooner "Lahaina." This in order that a steamer might be cleared statement of the chairman though made at the Custom House, the secretary to publicly, was allowed by the other comthe St. John Pilotage authority had missioners to remain uncontradicted; and certified that the vessel had paid her in preference to supposing that there has pilotage dues when in point of fact she was allowed to go free.

tains of coasting vessels generally were bers of the commission have not kept capable of navigating vessels without the themselves fully informed as to what

coinand pulsory payment was abolished the practically men would be on the ground and when wanted, and the active and capa-

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50. It was asserted also that the pilotage managed by the commissioners and that 46. And in January 1891 an official en- the representations of the leading ship-

51. It has been already pointed out that exercised sufficient care in reporting the ment. Further, in connection with the less of the "Curler," the chairman of the 47. It was stated by several of the wit- rilot commissioners stated publicly, bewhile he was in charge of a vessel. Yet 48. It was alleged that vessels endeav- it was proved at the investigation, by and had afterwards been suspended for been any wilful mis-statement or suppression of facts, the committee are forc-49. Evidence was given that the cap- ed to the conclusion either that the mem employment of pilots at all, that a years has occurred in the past; or that they do

enable up the arbor of were not weather. comed the ground d capad. pilotage n fairly and that g ship-

outthat to have ting the Departith the n of the ely, bes held, compethis was ppened el. Yet on, by to the lot had ners in pollo," led for strand-' This 1 made r comed; and ere has r supre forcmeni t kept what hey do

not feel sufficient interest in their duties sory payment of pilotage dues at vital importance in forming a right conclusion as to the efficiency of any particular pilot on the list.

52. The evidence given before the Deputy Minister tended strongly to the conclusion that the compulsory payment of pilotage dues should be abolished, and that, were those dues abolished, no more serious danger to life or property than now exists would ensue. It cannot made both in the commission and in the be supposed that the twenty-seven licensed pilots at St. John include within themselves all the knowledge and information as to navigation towards or within the harbor that exists. A system of free pilotage would send the better men for only two, and it is further requirto the front, more responsibility would be felt by the ships officers, and the public would probably be spared a repetition tical affairs." This qualification the of such disasters as that of the barque committee look on as a very valuable "Curler," which has led to this report.

abolition of the present pilotage commission, but the committee think that such experience. The committee are tion would be required for the disposiyounger men among the pilots, not now cation called for by the Boston Act. among the most active, might meet with success in some other avocation of life. that if the system is to be tolerated for And with regard to the more helpless, a while longer the number of the comwhere worthy of the care, it would be far missioners should be reduced to three, better that they should be assisted to a one to be appointed by the governor-inreasonable extent funds, than that the port should be un- board of trade, and that the Boston pronecessarily burthened for their support, visions as to experience and a limited coupled with that of others less deserv- term of office should be adopted. ing of the aid.

tioned that there is no compulsory pilot- reappointed, he would always carry age at Portland, Me., the chief competi- with him a sense of his responsibility tor with St. John for the Canadian win- to the public, and the three year term

to bear in mind circumstances of such Summerside, P. E. I., has recently been abolished.

> 55. But should it be found impossible to carry the abolition of compulsory pilotage into immediate effect the committee are of epinion that the whole pilotage system should be reconsidered, the St. John Rules compared with those of other ports where pilotage is still retained, and several important changes regulations under which the pilots serve.

56. The committee are informed that at New York there are but five commissoners of pilots; while the Act relating to Pilotage at Boston, Mass, provides ed that the persons appointed shall "have experience in maritime and nauone. In the case of the St. John com-53. This would probably involve the mittee neither the chairman nor the majority of the commissioners have had it could well be spared. Some legisla- informed in fact that but one of the present commissioners is a practical seation of the present pilotage fund. The man, and therefore within the qualifi-

57. The committee are of opinion from the public council, one by the city and one by the Although at the expiration of the three 54. In this connection it may be men- years the same commissioner might be ter export trade; and that the compul- seems a fair mean between the present system of permanent appointment and a case where! the conduct or qualificathe possible difficulties which might at- tion of the friendly pilot might be the tach to a single year term.

58. The committee find also that there is a conflict of interest between ship- selves, the extent to which they form a and those more directly connected with very remarkable. It was broadly claimthe smaller craft. And they believe ed before the deputy minister in 1891 that it is advisable generally that ship- that in return for their six years of owners should not be members of the apprenticeship the city council had commission, but that it should consist promised the pilots their charges on vesas far as possible of men who could not sels from 6 feet of water upwards to be subject to any suspicion, however make a living. Such a claim, if it had undeserved, of having personal interests any foundation in fact, would seem to to serve. In fact they believe that the imply a charge upon the citizens generappointment of laymen who would ally, for it cannot be supposed that the really interest themselves in pilotage city council could mortgage any particuquestions would be preferable to having lar class of private property for the supthose concerned in the shipping in con- port of certain individuals; and therefore nection with which the pilots are en- the pledge, if given with any shew of gaged. An exception might possibly be legal right, would entitle the pilots to made in the case of some practical sea- maintenance through an assessment at man, whose services it was important to the public charge. But it may be suffisecure; but, apart from this, the owner- cient to say, with the most kindly feelship of shipping, while it does not neces- ing towards the pilots themselves, that sarily give any practical experience of the committee believe that, neither in seamanship, or of the pilots work and the case of the pilots nor in that of any duties, must render it very difficult for other class of men who may have servthe commissioner to form an unbiassed ed an apprenticeship within the city opinion in cases where the interests of limits, does any such promise, express his own vessels may come in conflict or implied, exist. While through the

the appointment as commissioners of of employment, it has never been prothose in any way engaged in the busin- posed that shipping generally should be ess of ships supplies. On the course to- taxed for their support, or the relief of wards St. John the pilot must have their wives or children. Thirty years many opportunities, should he see fit to ago the shipyards round St. John were use them, of directing foreign captains to some particular dealer for their sup- ics. With the cessation of ship-buildplics. If the dealer thus favored should ing their employment is gone. Patienthappen to be one of the Pilot commissioners, how could he be expected, however conscientiously he might desire to was never suggested that the city should act, to give an unbiassed judgment in

question before the board.

60. With regard to the pilots themowners interested in the larger vessels, privileged class in the community is with those of some other size or class. decadence of wooden shipping, many 59. A still stronger objection applies to masters of vessels have been thrown out crowded with the best class of mechanly, uncomplainingly, they submitted, and took up other avocations in life. It enter upon shipbuilding or tax itself in

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ts themy form a munity is ly claimr in 1891 years of ncil had s on vesvards to if it had seem to ns generthat the particuthe suptherefore shew of pilots to sment at be suffidly feelves, that ither in of any ve servhe city express ugh the , many own out en pronould be relief of y years in were nechanp-build-Patientmitted, life. It should tself in

any way to give them employment or full number now maintained. In fact being in any degree missed.

though pilotage dues are primarily a as at present, or to reach vessels requircharge upon shipping, yet, if collected ing their help at some outside point, without due cause, they become a tax even if, in some very special case, the upon the city very nearly to the same services of a steam tug boat had to be extent as if levied upon the citizens by engaged. direct assessment. Even where the owners of shipping are ident they act as a upon the commerce of the port and which make it incumbent on the pilot indeed if unjustly levied may operate boats to cruise for vessels, thus to a cerin this direction to an extent far exceed- tain extent at least securing that pilots ing even the \$25,000 or \$26,000 collected shall always be available if required. in each year.

committee on this head it has been as- not realize the duty incumbent on them boats are necessary for the port, and gaged rather in assisting vessels, which that but for the maintenance of some may really require such aid, to port, system like the present they could not than in seeking for prizes upon which be kept up.

63. But even if it be granted that for services performed or not. pilots in some cases are necessary, though the fact that pilotage is not com- out pulsory, beyond that the vessel, if spoken, at Pictou the pilot is required to give must pay for the pilot's services, whether a bond with two sureties to the commisengaged or not, would show that the legislature is willing in his duty, such bond to be renewed every some degree to leave this to the owner second year. They think that a similar or officers of the vessel to determine, regulation should have always been enit need not, therefore, be assumed that forced at St. John. Reliable men would

relief. But the pilots, numbering 43 the presumption is rather to the conin 1873, and now as has been stated 28, trary, since the number has fallen from have been provided for with the utmost 43 to 28, and it is understood that very care, and are now maintained at a yearly few appointments are being made. cost of nearly \$26,000 to the community, It is provided at Halifax that the numwhile it is evident to the committee ber of pilots for the port shall not exceed from the statements made to them that twenty-five. But, were the compulsory the actual work of pilotage is done payment of pilotage dues abolished, it chiefly by a portion only of the men, does not at all follow that a limited but and that even of the present number sufficient number of the better men several could be spared without their would not continue to find remunerative employment; and be able either to 61. It must be remembered that maintain pilot boats quite as serviceable

64. In this connection the committee not res- desire to draw attention to the pilotage restriction rules in force at Boston and Quebec Under the present system at St. John 62. In reply to enquiries made by the they fear that all the pilots at least do serted generally that pilots and pilot of being always to the front, and enthey may levy their charges whether

65. The committee wish to point also that at Halifax and seem to sioners for the faithful performance of it is necessary that there should be the have no difficulty in providing suitable

sureties. If there were any whose cred- ience; and, in most cases of the larger it had fallen so low that they could not sailing vessels, are employed to bring do this, it would have the effect of re- chem in or take them out of port. moving them, and very properly, from the list.

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may be taken by some foreign captain wiser to cast on the ship's officers inwards bound, who thinks that he may the full responsibility for those difficulas well have the services he has to pay ties, rather than to put them in a posifor. The pilot may not be thoroughly tion where they are but too apt to think efficient, or he may have his own rea- that they can rely entirely upon the sons for taking some other than the more pilot, and that their own responsibility open course. He may get caught in the is at an end. fog when a different roate would have kept him in clear weather. He may Cline and the late Pilot Samuel Ruthermistake signals and run the vessel ford, two of the most reliable men ever straight on shore, and yet, if proceed- connected with the port, made to the ings were taken against him, it is quite Board of Trade in 1887, and printed in possible that nothing could be recovered. the appendix to the report of the special Loss of life or valuable property may en- committee on the Bay of Fundy and the sue. The pilot is suspended for three harbour of St. John, show clearly that months or s't, and then left free to seek there are no difficulties in connection another vessel, possibly with the same with the navigation of these waters result. It would be different if there that cannot readily be overcome; and were responsible sureties for the perform- that, with reasonable care and prudence, ance of the pilot's duties, who were liable they are perfectly safe. From Briar Isin some fixed amount for his defaults.

are now in existence helps to navigation the weather is said by Pilot Rutherford which Captains and mates \mathbf{mnst} examinations strict before allowed are to sailing directions are issued by the Ad- leaves all to the pilot and the vessel is miralty, charts giving the fullest in- pointed to the shore, there can be but formation as to harbours and their ap- one result; but it is submitted that for proaches are everywhere to be had, that result the port of St. John is not re-Lighthouses, buoys, and fog whistles so sponsible; and that ships officers in situated that only the most careless or the mercantile marine, if men of ordinobtuse can be misled, have been pro ary prudence and skill, can in most cases vided by the care of the Government at guide their vessels to and from St. the most important points. Numerous John with perfect safety; while, should steam tugboats are maintained in the circumstances arise calling for special harbour, officered by men possessing local help, it would still be available.

68. Navigation has its difficulties in all cases, but it may be a 66. Under the present system a pilot serious question whether it is not

69. The statements of Filot Richard land up, Pilot Cline says, the tides are 67. As has been already stated there very regular. In the winter, especially, once were entirely wanting, to be clear as a rule. Of course, if compass passes are neglected, if distances are not they taken, if in thick weather the lead is not serve. Printed used, if the captain is below, if the mate the fullest local knowledge and exper- even though the system of compulsory

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t Richard el Ruthermen ever de to the printed in the special ly and the early that connection se waters come; and prudence, Briar Istides are especially, Rutherford se, if comes are not lead is not ' the mate vessel is an be but d that for is not reofficers in of ordinmost cases from St. le, should or special available, ompulsory

payment of pilotage dues was abolished, days off Halifax harbour. In June H. as is now the case at Portland, Me., and M. S. Blake narrowly escaped collision other points, where no such system ex- with another steamer in a fog off the ists.

70. The approach to St. John from the entrance of the Bay of Fundy by the southern channel is wide and open. That channel is nearly 30 miles wide from shore to shore, and offers eighteen miles of clear navigation between the old Proprietor Shoals and Gannet Rock on the one side and the north west ledges on the other. Even the narrower channel forming the approach to the north of the Island of Grand Manan is some 4 or 5 miles in width. There are currents and tides undoubtedly to be dealt with, and in the summer season fogs as well, but these are by no means peculiar to the Bay of Fundy. The mariner must indeed be prepared to deal with fogs along the whole North America coast from Newfoundland and southerly beyond New York.

itself is tempered by these mists and made cooler perhaps than that of Halifax, or Portland, Maine, because the city doubtedly both its advantages and its is so situated that a fog at the entrance difficulties, as have all others, and these of the harbor in most cases drifts in over difficulties are intensified at the freshet the city itself, while Halifax particular- season of the year, when the St. John ly, situated some miles inland, escapes river, extending some 500 miles into the to a considerable extent, as does Rothe- interior, with its many tributaries, say, about the same distance inland pours its volume of water through the from St. John. But in approaching a main channel of the harbour into the harbour fogs have to be dealt with all open sea. Still, within the harbour, along the North American coast, north numerous steam tugboats are available, of Cape Hatteras; and it is somewhat and whatever need for pilots may exist curious that of late the most marked beyond, it cannot surely be doubted that cases have occurred off the sister city the very need itself would create the Halifax rather than St. John. Last supply, and that capable men, finding April fogs, accompanied by field ice, the employment before them, would alfrom which St. John is entirely free, ways be on hand and available to do the delayed steamships for hours and even work.

Nova Scotia coast. For nearly two weeks at the end of that month fogs extended along the coast as far south as Boston and beyond. And in August the Blake with the Governor General and the Vice Regal party on board left Halifax at midnight on Wednesday the 8th, for Charlottetown, P. E. I., was compelled on account of fog to remain off the Atlantic coast of Nova Scotia until well into Thur.day, and did not pass Cape Canso until Thursday evening about half past five. Further than this, Admiral Sir John Hopkins is said to have referred recently at Montreal to the fact that on two occasions the Blake had entered Halifax harbour without seeing land on either side. Nothing worse could have occurred in the approches to St. John, and moreover, in the winter months fogs in the Bay of Fundy are rare, not more common perhaps indeed 71. The summer climate of St. John from November to April than in any other quarter of the world.

72. The harbor of St. John has un-

73. But it appears to the committee that the legislature has definitely pro- committee are forced to the opinion that nounced upon the question of the absolute necessity of the pilot for the preser- rightfully done away with, as is now the vation of life and property by enacting case, but that the compulsory payment of that pilotage shall not be compulsory in pilotage dues should also be abolished, any case, except as to the liability to and the business of pilotage, like any pay pilotage dues. If the services of other, left to care for itself. The very conpilots are absolutely necessary for the siderable fund which now exists would safety of human life and the preservation probably be sufficient to provide for the of property, then surely every ship- aged and infirm among the present pilots, owner and master should be bound, and the widows and children of those deunder heavy penalties, not merely to ceased. The active men could either pay for but to engage them. If they are pursue their present avocation unaided, not required by law to engage such ser- or if they preferred other work could vices why should they be compelled to take it up. It is very evident to the pay for what they may not need.

74. It must be remembered, too, that, \$26,000 although the payment of pilotage dues age is compulsory in the case of vessels ap- tion is really earned by the giving of proaching or leaving St. John, the same necessary services in return. rule does not apply to all Bay of Fundy would, they believe, be wiser to leave ports. At St. Andrews there are pilots. the matter to regulate itself rather than But there the masters or mates of vessels to permit the continuance of a system receive certificates which under the 59th under which the many are forced to pay section of the Pilotage Act, render them for the possible requirements of the few; exempt from compulsory charge, thus fur- under which in the name of pilotage a nishing another proof that others besides favored class in the community is prolicensed pilots are fully qualified to take tected at the expense of all other citivessels into and out of port. And ves- zens; under which the commissioners sels making for Grindstone Island at the mouth of the Petitcodiac and other points are entirely free. If it be safe for vessels so bound to discard the pilot's services with impunity, on what possible principle should it be compulsory to engage or pay for them in approaching or leaving St. John. The system seems alnost an insult to the port. It cannot be ity alike. necessary for the preservation of life or property, or pilotage would be made absolutely compulsory on every vessel entering or leaving the Bay.

75. After the fullest consideration the not merely has compulsory pilotage been committee that of the \$25,000 or yearly paid in pilotdues but a limited por-And it having the matter in charge, seeing the pilots thus protected, are seeking by bylaw to "pay or "repay" themselves; and under which, if the matter is not dealt with thoroughly and at once, still greater mischiefs may ensue, checking the development of the traffic of the port, and injuring all classes in the commun-

All of which is respectfully submitted. On behalf of the committee.

W. M. JARVIS, Chairman. St. John, N. B., Sept. 12, 1894.

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APPENDIX.

APPENDIX A.

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BARQUE "CURLER." The Wrecks And Salvage Act.

In the matter of a formal investigation, held at St. John N. B. at the office of the Chairman of the Board of Examiners of Masters and Mates, on the 20th, 21st, and 28th July, 1894, before W. H. Smith, R. N. R., Commissioner, into the circumstances attending the stranding of the Barque "Curler" of St. John N. B, at Herring Bay, Campobello Island, on the 29th June last.

Report and Decision.

The court, having carefully enquired into all the circumstances in connec- Timothy Brooks, is also suspended for tion with the above mentioned shipping three months from the date of his surof the vessel was caused by the careless Marine and Fisheries; the court, howdoubtedly navigating the said vessel at certificate to him during the suspension. the time she went on shore.

bility ceased when he passed Partridge six months from the date of the strand-Island, and hauled his flag down, and ing of the vessel. that thereafter he took no interest in the ship, there is strong evidence to show

that he gave several orders on board proving thereby that he did undertake to navigate the vessel down the bay.

The court has also come to the conclusion that the negligence and indifference of the master contributed to the cause of the stranding.

That the mate is also to blame for not communicating with the master, when the pilot persisted in sailing towards a narrow channel after a dense fog had set in, and when no distance could be seen, and when the vessel was in proximity to the land.

The master, Angus McDonald, is therefore adjudged to be in default, and his certificate is hereby suspended for three calendar months from the date of the stranding of the vessel.

The master certificate of the mate, casualty, is of opinion that the stranding rendering the same to the Minister of navigation of the pilot, who was un- ever, recommends the issuing of a mate's

The commissioner also recommends Although he states that his responsi- that the pilot's license be suspended for

> (Sgd) W. H. SMITH, Commissioner.

APPENDIX B.

REMARKS

at the termination of the investigation into the cause of the stranding of the Barque "Curler," furnished by Captain W. H. Smith, R. N. R.

An erroneous impression seems to on his mind that no vigilance or care when he has a pilot on board.

It has however been courts, that the captain is never really officers. divested of the control of his vesse', and although in this case he was forced by did take every known and needful prethe law of compulsory pilotage of the caution to avoid the disaster, and did port of St. John, to take and employ a exercise all that watcofulness which is pilot as far as the limit outside of Part- required by a master of a vessel having ridge Islaud, it was a matter entirely of a valuable cargo on board. arrangement and agreement between the Master and the pilot if the said much as possible to the vessel, if he Master wished him to proceed any goes below at any time for the purpose further beyond that hmit, for the pur- of taking a rest, he should leave proper pose of assisting in the navigation of the orders with his officers on deck to call vessel down the Bay of Fundy.

Master did so arrange with the pilot, weather, during his absence. but notwithstanding he engaged the services of the pilot, he could not surrender fog comes on and the vessel is in proximhis command on that account, and was ity to the land, so that he can see that not relieved from all responsibility.

pilot is a very good and sufficient reason for the protection of the vessel; and he why his presence on board a ship is valuable.

Although when a pilot is engaged to which may be found necessary. navigate a ship it is considered the Master is not properly liable for the certificated officer in charge of the deck, want of skill or any default or careless to know as well as the Captain or pilot, navigation on the part of that pilot, is where the ship is, where she is making not always possible, or even creditable for and why she is being steered upon a for the Master, whose vessel has been certain course, and he should at all stranded, when a pilot was on board, to times be able to consult the chart and if shelter himself under such a plea. It in any doubt, immediately communicate is necessary for him to have impressed with the Captain.

prevail with regard to a Master's duty which he could bestow on the navagation of the vessel, should be wanting held by the either on his part or that of his

He must also be able to show that he

Therefore, in order to avoid risk as and acquaint him with any change The evidence goes to prove that the which might take place in the wind or

It is his duty to be on deck when sonudings are taken by the deep sea No doubt the local knowledge of a lead, with sufficient frequency and care should use any other known precautions for the safe navigation of the vessel,

It is also the duty of the Mate or any

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APPENDIX C.

Office of Pilotage Authority, Dominion of Canada, District of St. John, N. B., 31 Dec. 1893.

Rates of pilota; e in force 31st Dec., 1893, for the pilotage district of St. John, N. B.

ON ALL SAILING VESSELS,

Inward,

Ist District, \$1.50 per foot draught of water. 2nd District, \$1.75 per foot draught of water. 3rd District, \$2.25 per foot draught of water.

Ontward,

To Purtridge Island, \$1.25 per foot draught of water. Dow.: the Bay of Fundy, (not compulsory), \$2.00 per foot draught of water.

TRANSPORTING.

	100	tons	and	under.					• .	\$	1.50
Over		6.0	**	46	200	tons.	 			•	2.00
		+6		**	300	6.6					3.00
66	300	66	4.4	66	400	6.6	 	•	 •		4.00

And 25cts, additional for every fifty tons such vessel shall measure over 400 tons.

ON ALL STEAMERS,

Inward, 1st District, \$2.00 per foot draught of water. 2nd District, \$2.50 per foot draught of water. 3rd District, \$3.00 per foot draught of water.

Outward,

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Te Partridge Island, \$1.75 per foot draught of water. Down the Bay of Fundy, (not compulsory), \$2.75 per foot draught of water.

TRANSPORTING

	100	tons	and				
Over	100		4.6		260	ton	18 2.50
66	200	64	66	44	300	6.6	3.75
66	300	66	66	66	400	66	5.00

And 30cts, additional for every fifty tons such steamer shall measure over 400 tons.

(Signed) J. U. THOMAS, Secretary.

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risk as ol, if he purpose proper to call change wind or

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APPENDIX D.

Office of Pilotage Authority, District of St. John, N. B., May 22nd 1894.

Rates of Pilotage for all vessels (not otherwise exempt) entering and leaving the port of St. John, N. B.

							INWAR	D	OUTW	ARD
							Per foot	draught	of water.	
	ll Salll herwise					First District. [Second District.	Third District.	First District.	Down the Bay.
80 t	ons and	l unde	r 200 t	tons		1.00	1.25	1.50	1.00	2.00
200	64		300			1.25	1.50	1.75	1.00	2.00
300	4.6	4.4	400	6.6		1.50	1.75	2.00	1.25	2.00
400	4.4		600			1.75	2.00	2.25	1.25	2.00
600		6.6	800	6.8		2.00	2.25	2.50	1.25	2.00
800	G.s.	6.6	1000	6.6	÷	2.25	2.50	2.75	1.50 "	2.00
1000	58	4.4	1200	4.6		2.5)	2.75	3.00	1.50	2.00
1200	*4		1400	66		2.75	3.00	3.25	1.75	2 00
1400	**		1600	44		3.00	3.25	3.50	2.00	2.00
1600	44	6.6	1800	44	••	3.25	3.50	3.75	2 25	2.00
1800	**		2000	66		3.50	8.75	4.00	2.50	2.00

And 25 cents per foot, per district, for each 100 tons such Ships shall measure over 2,000 tons.

							INWARD		OUTW	ARD.
		mers (not xempt) of		er.		First District.	Second District.	Third District.	First District.	Down the Bay.
		and under				1.25	1.50	2.00	1.25	2.00
200	6.6	• 6	- 300	**		1.50	1.75	2.25	1.25	2.00
200	6.6	64	400	6.6		1.75	2.00	2.50	1.50	2.00
400	6.6	6.6	600	4.6		2.25	2.50	2.75	1.50	2.00
600	64	**	800	64		2.50	2.75	3.00	1.75	2.00
800	6.6	6.6	1000	6.6		2.75	3.00	3.50	2.00	2.00
1000	6.6	66	1200	tons		3.00	3.25	3.75	2.25	2.00
1200	6.6	4.6	1400	66		3.25	3.50	4.00	2.50	2.00
1400	6.6	64	1600	6.6		3.50	3.75	4.50	2.50	2.00
1600	6.6	6.6	1800	6.6		3.75	4.00	4.75	2.75	2 00
1800	6.6	6.6	2000	6.6		4.00	4.50	5.00	3,00	2.00

And 25 cents per foot, per district, for each 100 tons such Steamers shall measure over 2000 tons.

Note:-The above rate on Steamers not to apply to Steamers trading regularly to St. John; they to pay the same rate as sailing vessels.

(sgd.)

J. U. THOMAS, Secretary.

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APPENDIX E.

(Copy.)

No. 1.

Department of Marine and Fisheries. ? OTTAWA, 21st Augus., 1894. Refer to No. 5566.

Sin:-I have to acknowledge receipt of your letter of the 16th instant in refer- herewith a by-law passed by the Pilotence to the matter of payment to the Pilotage Commissioners of St. John for copies of correspondence and also of any order or authority given for any such payment, and in reply I enclose herewith for the information of the Board of Trade copy of order in conneil of the 20th March last, providing for the payment to the commissioners of expenses incurred by the commissioners in the discharge of their duty, and also of correspondence in the matter.

I am sir, your obedient servant, (Signed) WM. SMITH,

Deputy Minister of Marine and Fisheries. IRA CORNWALL, ESQ., Secretary Board of Trade, St. John, N. B.

No. 2.

Office of Pilotage Authority, (Copy) Dominion of Canada, District of St. John, N. B., 1st March, 1894.

SIR:-I have been instructed to forward to you the enclosed by-law, passed by a meeting of the Board held this day, for the approval of his Excellency the Governor General in Council.

Trusting the matter will receive your early attention.

I have the honor to be, Sir,

Your obedient Servant.

J. U. THOMAS.

Secretary St. John Pilot Commissioners. WM. SMITH, Esq.

Deputy Minister of Marine & Fisheries. Fisheries, Ottawa.

No. 3.

Department of Marine and Fisheries.) OTTAWA, 6th March, 1894.

Sin:-I have the honor to enclose age authority of the District of St. John N. B., providing for payment of expenses attendance on meetings and requesting of Commissioners, and I have to request that you will be good enough to inform me whether there is any legal objection to the By-law. I beg in this connection to refer you to your letter of the 26th October 1891, No. 504 of 1891, relating to the Halifax authority. I am, etc.,

WM. SMITH.

Deputy Minister of Marine and Fisheries.

E. L. NEWCOMBE, Esq.

Deputy Minister of Justice.

No. 4.

Department of Justice.) OTTAWA, 12th March 1894.

Sir:

(Copy.)

In reply to your letter of the 6th instant No. 5566, enclosing copy of a by-law passed by the Pilotage Authority of the District of St. John N. B., I have the honour to state that, in my opinion, there is no legal objection to the proposed by-law being approved.

I have to thank you for your reference to my predecessor's letter of October 1891 relating to a by-law passed by the Halifax Pilotage Authority.

Papers returned herewith,

I am &c.

E. L. NEWCOMBE.

Deputy Minister of Justice.

The Deputy Minister of Marine and

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etary.

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No. 5.

Certified copy of a report of a committee of the Honourable the Privy Council, approved by His Excellency the Governor General in Council, on the 28th March, 1894.

The Minister of Marine and Fisheries submits herewith for approval a by-law passed by the Pilotage Authority of the District of St. John N. B., on the 1st March 1894, providing for repayment to the Commissioners of expenses necessarily incurred in the discharge of their duties.

The Minister states that the by-law has been submitted to the Department of Justice, and the Deputy Minister has reported that in his opinion there is no legal objection to it.

The committee submit the same for Your Excellency's approval.

Joseph Pope,

Assistant clerk of the Privy Council.

To the Honourable

The Minister of Marine and Fisheries.

(Copy)

No. 6.

Office of Pilotage Authority, Dominion of Canada,District } of St.John, N.B., 1st March 1894 }

By-law to provide for the payment of the St. John Pilot Commissioners. Each Commissioner shall be entitled to be repaid any expenses necessarily incurred by him in the discharge of his duty as such Commissioner; provided however that no Commissioner shall receive more than one hundred dollars, or the chairman more than two hundred dollars, for their expenses in any one year.

> J. U. THOMAS, Secretary.

No. 7.

(Copy)

Department of Marine and Fisheries. OTTAWA, April 13th, 1894.

Sir.—Referring to hyletter of the 16th ultimo with reference to by-law passed by the pilotage authority of the district of St. John, N. B., I beg to inform you that an order in council issued on the 28th ultimo sanctioning the repayment to the commissioners of expenses necessarily incurred in the discharge of their duties.

I will forward you a copy of the Canada Gazette containing the orde: in council when issued. I am &c.,

WM. SMITH.

J. U. THOMAS, ESQ., Secretary Pilotage Commissioners, St. John, N. B.

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HOMAS, Secretary.

Fisheries. th, 1894. of the 16th w passed he district form you ed on the epayment ses necese of their

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oners.

APPENDIX F.

Pilotage at Portland, Me.

Portland, Me., August 9th, 1894.

Messrs. Scammell Bros.,

St. John, N. B.

Dear Sirs : -

Your favor of the 8th inst. at hand and contents noted. The pilotage here is not compulsory, and there are no branch pilots. Most of the piloting is done by fishermen, who pick the vessels up while engaged at their business. In the absence of any spe- on the subject we will gladly furnish. cified trade made with the captain they can collect \$2.00 per foot on sailing vessels.

Frequently captains make a trade at much less rate.

During the winter season, while the regular lines of steamers are running here, each line has their pilots, and they then have regular pilot boats, and go out cruising for the steamers. They get \$3.00 per foot for piloting them inwards, and \$1.25 per foot outwards.

We have no pilotage law.

Any further information we can give you

Yours very truly,

CHASE LEAVITT & CO. (Signed)

APPENDIX G.

Extracts from Report of the Special Committee of the St. John Board' of Trade on the Bay of Fundy and Port of St. John, N. B. January, 1887.

On the 27th January, 1887, the report of a Special Committee on the Bay of Fundy and Port of St. John, N. B., consisting of Messrs. R. Cruikshank, Andre Cushing aud W. E. Vroom, was read at a meeting of the St. John Board of Trade. It has been proposed to reprint this valuable report; but, even during the short period which has elapsed since its proparation, important changes have taken place in connection with the harbour of Saint John. The map published with the report could not show the Intercolonial Railway extension northwesterly from the I, C. R. R. wharf to the wharves extending from Water Street, and the warehouses built by the City at the termination of the line; for that extension, furnishing facilities for the ready transhipment of the eargoes of two more large steamers, had not then been carried out. Nor could it give the City wharves and the Canadian Pacific railway wharves, freight sheds, and grain elevator, completed on the opposite side of the harbour during the last four or five years.

It has been finally decided to reprint at present some extracts from this report, bearing more particularly upon the navigation of the Bay of Fundy and the harbour of St. John, in connection with the Report on Pilotage, presented to the Board in September 1894. These extracts seem to confirm the views of the Pilotage Committee that there are no difficulties in connection with the ordinary navigation of these waters, that cannot be overcome by the exercise of prudence and skill on the part of ships' officers in the mercantile marine; while the visits of H. M. S. "Blake," the flagship of the North American squadron, in August 1893 and June 1894, coupled with the statements in the extracts, show very clearly that the largest vessels can be brought in safety to the harbour of Saint John, even at those periods of the year when fogs are most prevalent along the North American coast.

EXTRACTS FROM REPORT AND APPENDICES.

"That a stretch of water such as the Bay of Fundy, and a harbor such as that of St. John, which have been frequented for the last hundred years by such a vast number of both sailing vessels and steamers, of the largest class, should be so little understood, is very unaecountable."

"One of the reasons for so many er ons ideas prevailing, is attributable to the very incorrect and biassed information given in recently published charts, which magnify and misrepresent the difficulties attending the navigation of the Bay of Fundy.

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We would instance one of these Charts which has come under our notice, entitled "A Chart of the Coast of North America from the Strait of Belleisle to Boston", published by one Charles Wilson, in London, in the year 1877 In a memorandum on that hart, opposite to the entrance to the Bay of Fundy, occurs the following remark. to which your eon mittee would call particular attention.

"Ships navigating the Bay of Fundy have to encounter an atmosphere almost con-"stantly enveloped in dense fogs; the tides setting with great rapidity over the "rocks and shoals, with which it abounds, and a difficulty of obtaining anchorage on "account of the depth, so that under these circumstances the most unremitting attention "is requisite to prevent disastrous consequences, which must necessarily attend a want "of knowledge and caution."

From the tenor of the above statement, and many others of a similarly unfair and untruthful kind which have been met with, it is no wonder that strangers should feel inclined to give a wide berth to a place represented as being so dangerous. In giving rebutting evidence against such statements as the above, your committee have applied only to sources known to be of the most reliable kind, on whose truth and accuracy the utmost dependence can be placed.

First, then: As to the statement that "the atmosphere of the Bay of Fundy is constantly enveloped in dense fogs," your committee would ask reference to a statement made up from the account regularly kept by the keeper of the fog whistle situated at

PARTRIDGE ISLAND

at the entrance to the harbor of St. John, for the winter months for 17 years from 1870 to 1886, both inclusive. (See No. 1 of Appendix.) The fog average was:

Months.		
November	н.	М.
Months. November	11	53
December	8	9
January	21	21
February	16	46
March	17	56
April	40	4
A total of		
	116	11

or an average per month of 19 hours and 22 minutes, or 38 minutes per day.

And from a comprehensive return by the same party (No. 2 of Appendix,*) made up for the whole year during a period of 21 years from 1865 to 1885, your committee gather the information that the whistle was sounded from all eauses on an average each month during the months of

January 52 days.	May 31 days.	September 4 days.
February 3 do	June 6 do	October 21 do
March 3 do	July 71 do	November 14 do
April 21 do	August 72 do	December 3 do

or an average of 3 hours and 22 minutes per day during the 21 years.

*This Appendix has not been reprinted.

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Your committee would remark that much of the time put down in this return as requiring the whistle to be sounded in the summer months, is not from fog alone, but from smoke from the burning of the forest in proximity to the shores of the Bay of Fundy, and in winter from vapor arising from the water of the Bay caused by the extreme cold prevalent in the months of January and February.

There is also to be found in No. 3 of the Appendix* a statement made up from the returns by the keepers of the fog whistles situated at Machias Seal Island, Head Harbor, Point Lepreaux, and Partridge Island, showing the state of the atmosphere in the Bay of Fundy during the winter months of 1883-84 and 1884-85, from which it will be seen that during the six winter months of those two years, at the four stations named, there was, on an average, only 35 minutes of fog per day."

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"As an evidence of the opinion entertained by underwriters of the safety of the navigation of the Bay of Fundy, we are authorized in saying that the agents in St. John for marine insurance companies are taking risks from St. John direct to Europe at the same rate of premium as from Halifax, Nova Scotia, and from Boston and Portland, thus minimizing the dangers of the Bay, which have been made such a handle of by parties who are interested in disparaging the character of our port."

"The coast all along from the entrance of the Bay of Fundy to the harbor of St. John is so thoroughly protected by fog whistles, automatic whistling buoys, and lighthouses, that it must proceed from the greatest carelessness or unseaworthiness, (unless in very exceptional cases) that a vessel should go ashore or even touch bottom. From the entrance to the Bay of Fundy at Machias Seal Island by way of the north or west channel, and at Briar Island, on the south channel, to the harbor of St. John, vessels do not lose the sound of one fog whistle or automatic buoy until they catch the sound of another, and the soundings by the lead are so regular and the anchorage so good, especially at the entrance of St. John harbor, that danger is reduced to a minimum, even in the thickest weather. Pilots state that they dread more to enter Boston or Portland or Halifax harbors during a fcg than they do St. John, and vessels bound to New York, Boston and Portland have sometimes to lie longer outside those harbors for tide than at St. John ; and when foggy weather prevails, it is generally as dense (if not more so) at Portland and along the coast of the State of Maine as it is in the Bay of Fundy. In winter, fogs ar 2 very rare. They are more frequent in the months of June, July and August, but seldom continue so thick for days in succession as to preclude seeing land in the Bay, and neither fog nor snow prove a bar to delay to steam vessels, the navigation of the Bay being so simplethere being no treacherous shoals or rocks in the way from the mouth of the Bay to the Port of St. John. We may instance the steamers of the International Steamship Company, which have plied between St. John and the port of Boston for a period extending over a quarter of a century, making three and four trips per week, each way, for part of the year, and two trips each way, per week, in winter, carrying an immense number of passengers and very large quantities of freight, and never lost a single life in all that time on that route. During the past thirty years passenger *Not reprinted.

steamers have been running between St. John and the western part of Nova Scotia, and during all that time not one was lost, thus proving that neither fog nor snow interfere with steam vessels in their passage to or from the harbor of St. John, where proper eare is taken.

IN THE MATTER OF ICE

in winter, your committee may confidently assert that there is not a port north of Cape Hatteras so entirely free from ice as St. John is. The ice which forms on the St. John river and its tributaries terminates at the Narrows, some three miles above the falls, which are situated about a mile above St. John harbor, and is completely debarred from escaping into the harbor by these narrows, so that there is no shell or anchor ice in the harbor in fall or winter, and in spring the thick heavy ice of the river is thoroughly rotted before breaking up and coming through the falls, and any remnants of any considerable size are thoroughly pulverized in coming over the falls; and as to the formation of ice within the harbor, it is impossible, owing to the great rise and fall of the tide. Again, there is never any field ice in the Bay below this port. This can hardly be said of any other port on the coast north of Baltimore; in fact there is no port north of Baltimore, including Philadelphia, New York, Boston, Portland and Halifax, that have not been frozen over, and had vessels cut out of the ice in them, except St. John. Shipmasters and owners of vessels, therefore. may be fully assured that no damage can be sustained from river, harbor or bay ice, in navigating the Bay of Fundy, or in the harbor of St. John. Under the accumulation of evidence which your committee have been enabled to place before the Board, they feel that they

MAY SAFELY ASSUME

1st. That the navigation of the Bay of Fundy, from its mouth to St. John, is remarkably simple and free, whether by the south or west channels; so much so, that pilots prefer making the port of St. John in bad weather to any other port on the coast.

2nd. That the fog or cold vapor never occasions delay of steam vessels in summer or winter, and that there is never the slightest obstruction from ice.

3rd. That Atlantic steamships need make but one straight course from their regular track to Portland and Boston up the Bay of Fundy to St. John.

4th. That the south channel, opening into the Bay, is 18 miles in width at the narrowest part, expanding rapidly to 35 or 40 miles of unobstructed deep water navigation, which holds good all the way up the Bay to the mouth of St John harbor, where superior holding ground can be found; or giving clear sea room, of say 35 by 50 miles, to a stranger who might not feel confidence to enter our port in a storm.

5th. That both the largest war and merchant ships have visited our harbor, excepting the "Great Eastern," and that she could easily be accommodated.

6th. That the port of St. John, in so far as navigation is concerned, is not only "one of the safest" but actually THE SAFEST PORT, summer and winter, all the year round, north of Cape Hatteras."

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16 hrs. 10 min. 20 ** 99 3.9 3 33 33 • • 39 3 5 33 3 9.9 ; 40 APRIL. 15 10 10 40 40 8 1520 15 30**0†** 10 50 • • ,, 3.9 , , ,, • 33 9.9 9.9 , , 99 99 99 33 33 6233 26 40 Iŧ Ŧ2 36 86 s 39 49 ŝ 66 47 hrs. 15 min. 35 min. 30 ÷ 99 3.9 3 , s 33 3.9 99 99 , , 9.9 9.9 ,, MARCH. 45 00 45 30 50 30 154550 3 15207 hrs. ; 5 1 hr. 17 hrs. 1 hr. 17 hrs. 99 ,, ., •• ,, 91 :* ** 9.9 ,, 12 61 338 39 39 $\frac{2}{16}$ 19 hrs. 25 min. 3 .. 15 .. 8 hrs. 45 min. 9 ** 50 ** 13 hrs. 55 min. 99 9.9 33 99 ** 9.9 99 ,, 33 FEBRUARY. Or an average of 38 minutes per day. 25 5 10 2035 20 25ŝ 35 , , 99 99 99 ,, , , • 3. ,, 4 12 37 38 25 12 11 6530 hrs. 40 min. 20 min. ·· 10 ·· 33 33 20 .. 51 hrs. 45 min. 99 3.9 ,, ** • 99 ;; JANUARY. 20 10 45 15 35 2015 30 38 hrs. 5 20 ··· 5 23 ··· 99 9.9 •• ,, ,, ,, • • 99 9 42 69 14 361 **%** ရ 1 hr. 45 min. ,, 00 •• ,, 22 hrs. 00 min. 33 3 3 •• , , 99 \$ 9 9.9 DECEMBER. ,, 00 30 35 8 $\tilde{c}0$ 401500 40 30 2 hrs. 7 hrs. " I 1 hr. ,, • • 99 ,, 99 9.9 99 43 13 6 $\mathbf{9}$ 11 ~ ~ *2 hrs. 30 min. 35 min. 99 99 99 NOVEMBER. 33 9.9 99 99 99 •• 33 •• 33 3 45 30 10 00 $\frac{15}{2}$ 50 55 55 35 15 8 40 $\overline{20}$ 15 5 hrs. **9** 9 ;; . 4 ,, ,, • 99 9.9 ,, • • 99 99 33 4 5 24 3016 13 2661 20 11 ∞ 1870 1872 1873 1871 1874 1875 1876 1877 1878 1879 1880 1882 1883 1884 1885 1886 1881

*The 2 hours and 30 minutes in November, 1870, is for Land Fog, or thickness of the jaud, or from the land. No Fog up to the 8th of December; or in this present month, 1886, no Fog up to the 8th.

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APPENDIX No. 1.

Showing Quantity of Sea Fog at entrance of Saint John Harbor, from November, 1870, to April, 1886, inclusive.

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Appendices Nos. 2 and 3 are not reprinted.

APPENDIX No. 4.

Compiled Statement of Fog, Snow, Vapour, Rain and Smoke in the Bay of Fundy, for the months of November, December, January, February, March and April, from 1880 to 1886.

	Fog.	SNOW.	VAPOUR.	RAIN.	SMOKE.
1880	н.м. 11.55	н. м. 18.55		н. м.	н. м.
1881 1882	$16.35 \\ 13.15$	$ \begin{array}{r} 18.35 \\ 2.40 \\ 21.30 \end{array} $		$\begin{array}{c} 5.55\\ 32.55\end{array}$	18.20
1883 1884	$26.00 \\ 2.40$	$11.50 \\ 14.30$		2.05	$\begin{array}{c} 6.50 \\ 6.00 \end{array}$
$\frac{1885}{1886}$	20.50	2.00		$\begin{array}{c} 18.10\\ 43.15\end{array}$	$\begin{array}{c} 5.10\\ 8.10\end{array}$
Total,	91.15	71.25		102.20	44.30

NOVEMBER.

DECEMBER.

1880 7.30 1881 7.30 1882 1883 1883 1884 1885 9.00 1886 9.00	$ \begin{array}{c} 35.50 \\ 66.30 \\ 42.30 \end{array} $	$7.50 \\ 2.40 \\ 21.50 \\ 78.50 \\ 12.15$	$7.40 \\ .40 \\ 2.30 \\ 10.40 \\ 22.25 \\ 12.45$	$9.30 \\ 5.05 \\ 9.50 \\ 33.40 \\ 3.10$
Total, 38.30	268.30	123.25	56.40	61.15

JANUARY.

1884 J 20 1885 9.30 Total, 72.25	52.05 <u>57.35</u> <u>303.00</u>	45.25 67.20	43.30	1.00 8.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{r} 49.15 \\ 90.10 \\ 53.55 \end{array} $	$21.00 \\ 44.20 \\ 57.05$	$\begin{array}{c} 2.45\\ 2.00\end{array}$	7.15

APPENDIX No. 4.—Continued.

Compiled Statement of Fog, Snow, Rain, etc., (Continued.)

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	Fog.	Snow.	VAPOUR.	RAIN.	SMOKE
	н. м.	н. м.	Н. М.	н. м.	Н. М.
1880					
1881	25.20	77.45		13.35	4 10
1882	11.05	95.25	6.20	3.20	3.00
1883	12.25	43.15		24.00	0.00
1884	$65 \ 35$	75.40		7.15	3 25
1885					0 10
1886	13.55	57.05	98.25	42.40	· 3.30
Total	, 128 20	349.10	104.45	90.50	14.05

MARCH.

Total,	60.45	372.35	6.00	81.45	12.40
1886	17.20	119.05	4.00	17.50	
1885				10.10	10.10
1884	16.30	83.40		10.15	10.10
1883	2.50	68.35		26.20	2.00
1882	16.30	76.00	2.00	17.35	2.30
1881	7 35	25.15		9.45	
1880					

APRIL.

		1		1	
1880					
1881	8.20	20.55		7.30	
1882	39.15	71.15		13.30	
1883	49.30	21.55		7.25	
1884	22.4 0	10.10		9.00	18.40
1885					
1886	99.50	9.30	.50	5.15	2.30
Total, 219.35		133.45	.50	42.40	21.10

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APPENDIX No. 4.—Continued.

AVERAGES.

Of Compiled Statement of Fog, etc., at all the Fog Whistle Stations in the Bay of Fundy for the months of November, December, January, February, March and April, from 1880 to 1885, both inclusive.

	Fog.	SNOW.	VAPOUR	RAIN.	Smoke
	н. м.	н. м.	н. м.	н. м.	И. М.
November	15.12	11.52		17.03	7.15
December	6.25	44.45	20.40	9.27	10.13
January	12.04	50.30	39.10	8.02	2.43
February	21.23	58.02	17.28	15.08	3.11
March	10.08	62.11	1.00	13.38	2.07
April	36-36	22 18	.10	7.07	3.31
Sums	101.48	249.38	78.28	70.25	29.00
Means	16.58	41.36	13.04	11.44	4.50
Or per day	34.	1.23	.26	.23	.10

APPENDIX NO. 5.

(Letter from Capt. W. A. Robinson.)

ST. JOHN, December 4th, 1886.

The St. John Board of Trade,

GENTLEMEN, --Having read various reports in the papers concerning the Bay of Fundy, I, as a seaman and mate employed in the coasting and foreign trade of the Bay of Fundy, from 1819 to 1824; and from that time until 1862, as master of St. John and other ships, in foreign trade; beg leave to make some statements concerning the navigation of the Bay of Fundy.

In my many years' experience, I have not met with any trouble from fogs, tides, shoals or shores. On one occasion (while mate) I returned to St John in an English vessel, the master of which had never been in the Bay of Fundy. He consulted me on the dangers of navigating the Bay. I recommended him to make Cape Sable bank and from that point, with attention to the soundings, he could avoid all the impediments that lay in his way, and with my assistance he bronght his vessel to anchorage near Musquash. On nearing the Bay we obtained a St. John pilot.

My many years' experience warrants me in affirming that the Bay of Fundy can be navigated with as much ease and safety in summer fogs and winter snows as any other port in North America, notwithstanding all the unfavorable reports of ignorant or prejudiced persons.

In respect of the great rise and fall of tides, they are a great convenience and no obstruction to navigation I have never met those various and uncertain currents so much spoken of, and, consequently, dreaded by strangers. As to charts, I prefer to use the British Admiralty publications.

The rocks and shoals in the Bay of Fundy are all within the line of soundings, and with proper attention with a 'ead, may be avoided, there being a clear channel of 182 niles on a direct course from Cape Sable bank to St. John barbor. I ask my brother shipmasters to pardon my recommending to them to be more attentive in the use of the lead, and they would avoid many of the rocks and shoals on which they may have been wrecked I am, yours truly,

W. A. ROBINSON.

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Appendix No. 6 is not reprinted.

APPENDIX NO. 7.

(Letter from Capt. B. B. Bustin.)

ST. JOHN, December 9th, 1886.

The St. John Board of Trade,

GENTLEMEN,—Having followed the sea for over half a certury, and during that time having sailed out of St. John regularly from four to five times a year for ten years, and often afterwards, I can give an opinion of the Bay of Fundy from long experience. During the period from 1835 to 1845 I sailed between here and the

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West Indies as master of a vessel, and never met with the slightest accident in the Bay of Fundy. At that time we had longer spells of and thicker fog than new, and there were only five or six lights in the Bay; yet by keeping a man on the look ont and lead going, I found no trouble in coming up the Bay. I have time and again entered the Bay of Fundy in a dense fog, and have never seen land till I made the port of St. John. Several times I have come up the harbor on a cold winter night in a heavy gale, when it was impossible to get a pilot, and that, too. without any great difficulty, although there were no buoys in the harbor. With our numerous lighthouses, fog horns, and buoys now in use, it is an easy matter to make our port I would far rather take my chances in the Bay of Fundy, making for St -John in fog, snow or storm, than to enter the ports of Boston or Portland under the same conditions. The Bay of Fundy is a safe bay, for one can always have plenty of drift and can readily tell where he is by the soundings. I consider St. John to be easier of access than any port on the Atlantic coast.

CAPT, B. B. BUSTIN.

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APPENDIX NO. 8.

(Letter from Capt. Joseph Prichard.)

Sr. Joun, N. B., December 13th, 1886.

The St. John Board of Trade,

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GENTLEMEN,—I have frequently come to the Bay of Fundy for twenty-eight years, and sometimes about five days before arriving in port, could not get a meridian altitude, and consequently, had to trust entirely to the lead and distance. I have always found soundings on Sable Is'and bank transparent sand, and the deep water soundings between the banks and the coast of Nova Scotia always mud bottom.

La Have bank the lead strikes hard on a very fine sand at from forty to fifty fathems, and on the east of Cape Sable the bottom is rocky, and, when on the bank, coarse sand; and as we approached the west side of Cape Sable bank the soundings are black gravel and shells, then the Bay is open to the north, but it is best to keep on to the westward until the water deepens to seventy, eighty, or ninety fathoms, and after that to get on the edge of the bank and sail parallel to the edge in about fifty fathoms till abreast of the Lurcher, when the water will shoal to about thirty-five fathous, and by keeping on the same course the water will get deeper, and not to get into less than fifty fathoms till you get abreast of Briar Island. The shoal water at the Lurcher will indicate the distance up the Bay, and, consequently, the distance to run till abreast of Briar Island, and in about eighty to ninety fathoms, when we ean shape our course N. E. by north for Partridge Island. By keeping a good lookout we often see the land from the masthead, over the fog, when you cannot see much more then the length of the ship from the deck, and in very cold weather, in the winter, the vapors seldom rise higher than the ship's lower masthead. In the sailing directions the method of taking the passage is up west of Grand Manau, but I always preferred the east of Grand Manan, as it is much the shorter, and I have never had

an aecident. In beating along the south coast of Nova Seotia, in a fog or vapor, with the wind S. W., I would not stand inshore nearer than forty fathoms of water.

As far as the vapor or fog is concerned, going to Boston or Portland you have the same to contend with.

Appendices Nos. 9, 10, 11 and 12 are not reprinted.

APPENDIX NO. 13.

(Statement from Capt. Chas. S. Taylor, Harbor Master of St John.) The St. John Board of Trade.

GENTLEMEN ;-- I was about twenty years a pilot in the Bay of Fundy. I have brought many steamships up the Bay of Fundy in the summer time; not many in the winter, as during the time I was pilot steamshups did not come regularly from seaward in the winter, with the exception of the Allan Line. I would have no hesitation, as a pilot, in bringing any of the largest mail steamers to the port of St John all through the year, summer or winter, but would prefer the winter, the atmosphere, as a rule, being more clear then. With a steamer drawing twenty-seven feet of water, the harbor of St. John can be entered about half flood. I consider a large ship safe at the railway wharf in any weather. I consider the eorporation pier, however, a safer wharf; the depth of water at that wharf is thirty fect at the south end and twentyfive feet at the north end, twelve feet from the pier. I consider the anehorage it Partridge Island, at the mouth of the harbor. excellent. The channel could be dredged to a sufficient depth for ships of any draught of water at low tide. I consider the John Robertson wharves well suited for permanent wharves for steamers of large size. and a very suitable wharf could be built at Sand Point, Carleton, by adding to the present, there being twenty-seven feet at low water springs.* I consider the holding ground in the harbor to be very good. The steamer "Kansas" loaded at the railway pier, about three years ago, and she drew twenty-sev leet. At this time there were nine steamers in the harbor at one time, two of them respectively of 5,276 tons and 5,146 tons, and the other seven from 1,500 to 3,000 tons each I consider the navigation of the Bay of Fundy as easy and safe as any place I know of; the running courses are few and simple, and the very few obstructions are hardly worth mentioning.

CHARLES S. TAYLOR,

Harbor Master.

J. PRICHARD.

APPENDIX NO. 14.

(Statement from Richard Cline, one of the St. John Branch Pilots.)

ST JOHN, 7th January, 1887.

The St. John Board of Trade,

GENTLEMEN,—I have been about thirty-nine years a St. John pilot, and have been in the habit of taking charge of steam and sailing vessels outside of Briar Island, at *This has since been done.

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the mouth of the Bay of Fundy. I have brought many steamers of the Anchor Line and others from Halifax, and some from New York, and I have brought many ships of war, both British and United States, into the harbor of St. John. I was pilot on board H. M. S. "Northampton," drawing twenty-six feet, from Halifax here in Angust, 1878. We harbored at Liverpool, N. S., Flagg's Cove, Grand Manan, Bliss Harbor, and Digby, and from thence to St. John, and then back to Halifax. The weather was thick most of the time. I had no difficulty. At the time of the Trent affair I brought several troop ships in here, boarding them in Halifax. I had the "Jura," the "Calcutta," the "Australasian," the "Adriatic," 5,555 tons, and many others were here that winter, brought in by other pilots. Thirty years ago last summer I piloted the U.S. steamer "Mississippi" from Eastport here; she drew twenty-two feet; the weather was thick; there were no fog alarms in the Bay then, and we got along well enough, although the weather was thick. I also piloted the American ship "Great Republic," the largest merchant sailing ship ever built. We sailed up the Bay and into this port, and came to anchor in the harbor without a tug. About three hours flood would be the time to enter the harbor with a ship drawing twenty-seven feet, and the same applies to Boston and Portland, Me. The navigation of the Bay of Fundy compares most favorably with other ports and places where I have been. If a ship of deep draught of water arrives off the harbor and has to wait for the tide, she can either anchor outside Partridge Island with safety (the anchorage being excellent) or she can lay off and on, there being plenty of sea room. I would rather approach St. John in bad weather than any other port along the coast. During the time I have been pilot, I have myself brought in two hundred steamships and have never had an accident with one of them The aid of a tug is not necessary either in entering or leaving the port with steamships. The land of the Bay Shore is high, and one ean always see it over the vapor occasioned by extreme cold weather. It can generally be seen also in foggy weather by going aloft. The soundings are good from Cape Sable into St. John, and one could come in during the densest fog by using the lead. The whistles are good and numerous, but when they cannot be heard, a pilot or eaptain can come up by soundings, which are very regular. From the usual track of Atlantic steamers bound to Portland and Boston, the navigation of the Bay by the south channel is plain and simple It is a straight course from Briar Island to Partridge Island, say sixty miles. In fact, those steamers, by keeping on their regular course towards Portland and Boston a few extra miles west of Cape Sable more than is necessary to enter the Bay can then turn and make one straight course to Partridge Island, at the month of St. John harbor, and this without any obstructions within twenty miles of the line sailed after entering the Bay. The south channel is broad, being eighteen miles wide at its narrowest part, which is at the entrance of the Bay, between Briar Island and the "Old Proprietor," so From this point inward it immediately widens to thirty-five or called. forty miles, which width it holds good all the way to St. John without obstruction of any kind. When piloting sailing ships out of the harbor I never anchored at the Island to await a chance on account of fog. I always went on, thick or elear, and

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would work my ship out south channel, even beating out all the way if wind was ahead. I do not consider the tides dangerous by any means, but one must, of course, have some knowledge of them when entering the Bay. From Briar Island up the tides are very regular. There is never any ice in the harbor to interfere with or injure ships. There is never any field ice to contend with in the Bay, even in the severest weather. There is about eighteen feet of water in the main channel eastward of Partridge Island at low water spring tides. This could be easily dredged if desired. It would be cut clear by the tide if the breakwater was extended to the Island; that would make one of the most comfortable harbors this side of Europe.

RICHARD CLINE.

APPENDIX NO. 14.

(Letter from Samuel Rutherford, Pilot for the Bay of Fundy and Harbor of St. John.) The Committee of the Board of Trade.

GENTLEMEN,-I have been thirty-four years a pilot in the Bay of Fundy. I have been to sea altogether forty-two years, and have brought large steamers of heavy draught of water into the harbor of St. John. Vessels of this class can enter about half flood. I consider the navigation of the Bay of Fundy quite safe in the winter time—the weather being then clear, as a rule. I do not consider that vapor renders navigation unsafe, as it is very seldom so high as to obstruct the view of the land—it only prevails during northerly winds, and is of short duration. When coming here from Halifax I have often taken charge from that port. I have often brought ships through the channel between the north-west Ledge and the "Old Proprietor," by the lead, and have not scen the land. I consider the holding ground off Partridge Island to be as good as any known. The bottom in the main channel on entering this port is gravel and mud, and could be dredged for large ships. The average depth of water off the Custom House, at low water springs, is ten fathous. I consider the harbor of St. John easy of access in any weather, as the courses from Cape Sable to St. John are few and very simple, and can be run with ease, ordinary care being observed in thick weather to keep the lead going. The soundings being very regular and pronounced, and the Bay of Fundy being admirably provided with light houses, fog whistles and automatic buoys, makes the chance of loss or damage very small indeed. I consider that the harbor of St. John and its approaches compare very favorably with any other harbor on this coast, as they never freeze over in winter, which cannot be said of any other harbor north of Hatteras.

SAMUEL RUTHERFORD.

Appendices Nos. 15-20 are not reprinted.

