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## THE HUDSON BAY

ROUTE TO EUROPE

By Robert Bell, I.S.O., M.D., D.Sc. (Cantab), F.R.S.

(Read before British Association, Winnipec, Aug. 25, 1969).

The question of a feasible route to Europe, from the präirie provinces of Canada, by way of Hudson bay, is of the first importance to the Dominion, for several reasons. It is the shortest, both of several reasons. It is the shortest, both of the way and provinces to Liverpool, as an attralist and geologist. Store to the between these points. Now of them he way also medical possible course from the centre of this group of provinces to Liverpool, as an attralist and geologist. Store the course from the centre of this organizately a segment of a greater part of a compensation by sea, with a superficient to the shortest, but this route alforist a greater of a compensation by sea, with a feel between these points. Now of them he way also ment of the day and the shortest, but this route alforist a greater of a compensation by sea, with a feel between these points. Now of the superficient possible course from the centre of this organization of transportation by transportation by transportation by transportation by the largest content of the day and the superficient of the superficient of the day.

The Hudson bay way of Hudson bay is the total length the shortest, but this from the factor of the superficient of the superficient of the superficient of the superficient of the day.

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with a sum and the early asystematic by the early and agreed of an along the sum and the s

much has been made of this fact by the during the two whole years and as to the opponents of the proposal to use these information they obtained from the waters as a high-way to Europe. But steam navigation has changed all that to hand in their books of records, after and has put a new aspect on the whole which a general report, purporting to question. The writer was a passenger on be based on all of them, was prepared one of the company's sailing ships in 1880, when a small scattered field of in 1880, when a small scattered nead of the entirely stopped our progress in the strait. Four years afterwards, when I shared the steamship Neptune.

chased and the Canadian Pacific railway and it was not ascertained whether or had been constructed, both at the expense of the people of Canada, in order to secure the trade of the northwest for the secure the trade of the northwest for side. The strait was found to be clear argued that it would be unwise to open a in the autumn. shorter and more direct route to Britain. The writer wa which would devert the very trade and expedition and by means of a yacht, travel we were so anxious to obtain for that railway, in order to secure these advantages for the Canadians themselves.

Description and by means the deck of the steamer, he surveyed a considerable advantages for the Canadians themselves.

Description of the north shore of the strait.

advantages for the Canadians themselves. It was therefore, natural that the proposed route should be opposed by the the Hudson's Bay company, the Canadian Pacific railway, the manufacturers of Eastern Canada and all others, who thought their own particular interests were menaced. The Canadian government was also opposed to it, for the time being. In fact, the Hudson bay route had few friends or advocates. The people of the western prairies who wanted the route opened up were not sufficiently numerous and had not the necessary political influence to secure for the proposed of the Canadian government was also opposed to it, for the time being. In fact, the Hudson bay route, it is urged that the season of navigation is too short, because people erroneously suppose that the strait is frozen over during the winter and that Churchill harbor, on the west coast of the bay, the only natural port known to be available for large yessels, is not clear of ice for a sufficient length of time each season. The harbor is, however, open for about four and a half months during the summer and autumn and this period might be

increase in their own trade, which this route will afford, is a matter of much increased.

The name to the control of the cont

on the west side of Hudson bay is, geologically speaking, rising very rapidly.

Pacific railway and trade for the tarifiprotected Canadian manufactures?

Small as was the population of Manitaba, there was always a clamour from that quarter for some consideration of the Hulson bay route by the government. This was appeased by sendin

to hand in their books of records, after which a general report, purporting to be based on all of them, was prepared by some one else for publication each year.

Clay, affording good holding ground. The canadian government and people for at least making every effort to establish this line of transportation.

The railway might be originally constructed so as to be operated by hydromagnetic to establish this line of transportation.

The city of Winnipeg is near the electric power, which can be furnished to the proper of the whole are constructed so as to be operated by hydromagnetic transportation.

in about the same part of the strait, we making occasional voyages from end to end, beginning as soon as it could through it with little or no loss of time. be entered and continuing till it might be The delay in attempting to develop this route for commerce has arisen from several causes, among which are the following: When it was first advocated by many that such a thing sometimes occurred, although there was no proof that it had ever happened. But ed at a very small expense.

The country on the eastern side as a modern commercial route, the popu-when the Diana reached the strait (on lation in the interior was so small that the 22nd of June) the entrance was al-

way to Cape Dufferin, the east

he Nelson, some stretches are naviga

just within the entrance and on the

there would have been too little business to give employment to a railway and line of steamships. As soon as the Hudson's tangled in ice by going too close to Big Bay company territories had been purisland, about half way up the north shore, the older portions of the country, it was of ice until the Diana left for Halifax late

numerous and had not the necessary political influence to secure for the project the consideration it deserved. No class of people of the eastern parts of the Dominion felt themselves called upon to take any active interest in the matter.

And so this great question has dragged itself along to the present time. In the natural course of events, the opening up of this channel for trade, could only become a living issue when the exports became sufficiently great to force their way to the sea by the cheapest and casiest route. When this shall have been accomplished, a large proportion

By prolonging the railway northward average depth of only about ten feet been accomplished, a large proportion of the imports will, of course, come the same way and there will also be a considerable passenger traffic. The people of Great Britain will soon learn that the large proportion increased.

By prolonging the railway northward average depth of only about ten feet a high tide.

By prolonging the railway northward average depth of only about ten feet a high tide.

The mean rise of the spring tides of the west side of Hudson sea is eleved the total distance might be only slightly increased.

tained by map-makers for the mouth of Nelson river, perhaps because, on paper it looks as if a port should still be there to nearly double the ordinary heigh To an outsider, the virtual obstructions placed in the way of developing this route by such means as I have mentioned, will appear to have been short sighted and unpatrioctic; for, let us suppose that if, by any means besides those which have been referred to, a large population could be rapidly poured into that vast uninhabited region, would this not be the very best means of furnishing the desired traffic for the Canadian Pacific railway and trade for the tariff-

greater depth than ten feet. Although may be expected in the future,, inclu the island is now above the level of the timber, minerals, agricultural product highest tides, it is probable that at the fish, fur and oil. These may some day

vantages, together with the many others to be hilly and rocky, but this is a mistreduced rates for freight, would seem the bottom in all cases is stiff boulder reduced rates for freight, would seem to justify the Canadian government and people for at least making every effort beights of from 1.000 to 2.500 feet and to establish this line of traverse, anas been supposed to be hilly and rocky, but this is a mistreduced rates for freight, would seem river, there is much good soil, consisting to establish this line of traverse, anas been supposed to be on the flyer's track. Most of the men who were killed were asleep when the crash came. They were stockmen from the North-West, accompanying cattle to Chicago. are many good harbors on both sides. The bottom in all cases is stiff boulder

and signal stations might be erected ice that might be in the strait. Both sides could be easily and effectively light-

of any by the St. Lawrence, while the saving rivers.

Both of distance in favor of all other points on the sea route through Hudson is greater as we advance northwestward strait has been proved feasible, railways

aboose it almost obliterated it.

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heir berths and seats. The crew of he stock train and men engaged in

watering and handling the cattle also as principal of the Cannon street passenger train crashed into the frail year as he has very valuable rea

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