## APPENDIX No. 1

## HUDSON BAY TEMPERATURES.

In accordance with the request of the committee, Dr. Bell subsequently forwarded to the chairman, who submitted it to the committee, an extract of his report published in the report of the Geological Survey of Canada for 1877-8 (page 26c) as follows:—

The following table gives the result of the above observations and also the temperature of the air at the different times at which they were made. The Fahrenheit thermometer was used, and whenever the sea happened to be calm the instrument was lowered to a depth of three or four feet below the surface:—

TEMPERATURE of the Sea, Rivers and Air along the Eastmain Coast in 1877.

1.   Rupert's River at Rupert's House	Air in Shade.
2. Eastman River, two miles up	48°
3. Middle of great bay south of Cape Hope       " 15. 2.00 P.M.       59°         4. Twenty-five miles north of Cape Hope       " 16. 12.30 "       47°         5. Eight miles south of Big River       " 17. 5.00 "       47°         6. Mouth of Big River       " 17. 7.00 "       63°         7. Twenty miles north of Big River       " 18. 4.00 "       55°         8. Wind-bound Point, thirty-five miles north of Big River       " 19. 2.00 "       53°         9. Ten miles E.N.E. of Cape Jones       " 24. 4.00 "       45°         10. Thirty-six miles north-eastward of Cape Jones       " 25. 7.00 "       52°         11. Fifty-three niles north-eastward of Cape Jones       " 26. 9.00 "       53°         12. Black Whale Harbour       " 26. 9.00 "       53°         13. Great Whale River opposite H. B. Co.'s Post       " 28. 1.00 "       68°         14. Do. after two cold windy days       " 28. 1.00 "       68°         15. Open Sea, forty miles N. of Great Whale River       Aug. 1       6.00 A.M.       53°         16. 'Second' River at fifty-one miles north of Great Whale River       " 2       9.00 "       63°         17. Off do.       " 2       9.15 "       52°         18. South side Richmond Gulf       " 9       3.00 "       62°         20. Opposite Last or Northern	66°
5. Eight miles south of Big River.	72°
6. Mouth of Big River	65°
7. Twenty miles north of Big River  8. Wind-bound Point, thirty-five miles north of Big River  9. Ten miles E.N. E. of Cape Jones  10. Thirty-six miles northeastward of Cape Jones  11. Fifty-three niles north-eastward of Cape Jones  12. Black Whale Harbour  13. Great Whale River opposite H. B. Co.'s Post  14. Do. after two cold windy days  15. Open Sea, forty miles N. of Great Whale River  16. 'Second' River at fifty-one miles north of Great Whale River  17. Off do  18. South side Richmond Gulf  19. South point Cairn Mountain Island, Richmond Gulf  20. Opposite Last or Northern Nastapoka Island  21. Land-locked Harbour  22. Southeast of Last Nastapoka Island  23. Middle of Nastapoka Sd. between N. River and Salmon Fishery Cove  24. Midway between Inlet of Richmond Gulf and Belanger's Island  25. Open Sea between Great Whale River and Manitounuck Sound  26. Great Whale River, opposite H. B. Co.'s Post  27. Off Esquimaux Harbour  28. Dead Dog Cove, after three days' blow  29. Mouth of Big River, Fort George  30. Kumishoo's Bay, forty miles south of Fort George  31. Off South Point of Rupert's Bay  31. Off South Point of Rupert's Bay  32. Off South Point of Rupert's Bay  33. Off South Point of Rupert's Bay  34. Off South Point of Rupert's Bay  35. Open Sea between Great Whale River and Manitounuck Sound  34. South side River, opposite H. B. Co.'s Post  35. Open Sea between Great Whale River and Manitounuck Sound  36. Kumishoo's Bay, forty miles south of Fort George  37. Off South Point of Rupert's Bay  38. Ord 19.	57°
8. Wind-bound Point, thirty-five miles north of Big River	63°
River	62°
9. Ten miles E.N. E. of Cape Jones.     24	=00
10. Thirty-six miles northeastward of Cape Jones   25   7.00   48     11. Fifty-three iniles north-eastward of Cape Jones   26   12.30   48     12. Black Whale Harbour   26   9.00   58     13. Great Whale River opposite H. B. Co.'s Post   28   1.00   68     14. Do. after two cold windy days   30   9.00   59     15. Open Sea forty miles Northern Nastapoka Island   25   9.15   58     16. South side Richmond Gulf   9   11.30   61     17. Off do.   9   11.30   61     18. South side Richmond Gulf   9   3.00   62     19. South point Cairn Mountain Island, Richmond Gulf   9   3.00   62     20. Opposite Last or Northern Nastapoka Island   16   3.00   55     21. Land-locked Harbour   17   11.30 A.M.   55     22. Southeast of Last Nastapoka Island   25   12.30 P.M.   53     24. Midway between Inlet of Richmond Gulf and Belanger's Island   27   6.00   53     25. Open Sea between Great Whale River and Manitounuck Sound   27   6.00   57     28. Dead Dog Cove, after three days' blow   18   7.00 A.M.   59     29. Mouth of Big River, Fort George   18   7.00 A.M.   59     30. Kumishoo's Bay, forty miles south of Fort George   19   7.00   55     31. Off South Point of Rupert's Bay   19   7.00   55     32. Total Richmond Research   19   7.00   55     33. Total Richmond Research   19   7.00   50     34. Opposite Last Nastapoka Island   19   7.00   50     35. Total Richmond Research   19   7.00   50     36. Kumishoo's Bay, forty miles south of Fort George   19   7.00   50     37. Total Richmond Research   19   7.00   19   7.00   19     39. Total Richmond Research   19   7.00   19     30. Total Ric	70°
11. Fifty-three miles north-eastward of Cape Jones.     26.   12.30       48°   12.   12.   12.   12.   13°     12.   12.   13°   12.   12.   13°   12.   13°   12.   12.   13°   12.   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   12.   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°   13°	58°
12. Black Whale Harbour       26.   9.00       68°   14. Do. after two cold windy days.     30.   9.00     59°   15. Open Sea, forty miles N. of Great Whale River     4. Up.     4. Up.	73° 82°
13. Great Whale River opposite H. B. Co.'s Post.	04
14. Do. after two cold windy days. 15. Open Sea, forty miles N. of Great Whale River. 16. 'Second' River at fifty-one miles north of Great Whale River. 17. Off do. 18. South side Richmond Gulf. 19. South point Cairn Mountain Island, Richmond Gulf. 19. South point Cairn Mountain Island, Richmond Gulf. 20. Opposite Last or Northern Nastapoka Island. 21. Land-locked Harbour. 22. Southeast of Last Nastapoka Island. 23. Middle of Nastapoka Sd. between N. River and Salmon Fishery Cove. 24. Midway between Inlet of Richmond Gulf and Belanger's Island. 25. Open Sea between Great Whale River and Manitounuck Sound 26. Great Whale River, opposite H. B. Co.'s Post. 27. Off Esquimanx Harbour. 28. Dead Dog Cove, after three days' blow. 29. Mouth of Big River, Fort George. 30. Kımıshoo's Bay, forty miles south of Fort George. 31. Off South Point of Rupert's Bay. 30. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	82°
15. Open Sea, forty miles N. of Great Whale River.   Aug.   1	48°
16. 'Second' River at fifty-one miles north of Great Whale River.	70°
Whale River.	
17. Off do. 18. South side Richmond Gulf. 19. South point Cairn Mountain Island, Richmond Gulf. 20. Opposite Last or Northern Nastapoka Island. 21. Land-locked Harbour. 22. Southeast of Last Nastapoka Island. 23. Middle of Nastapoka Sd. between N. River and Salmon Fishery Cove. 24. Midway between Inlet of Richmond Gulf and Belanger's Island. 25. Open Sea between Great Whale River and Manitounuck Sound. 26. Great Whale River, opposite H. B. Co.'s Post. 27. Off Esquimanx Harbour. 28. Dead Dog Cove, after three days' blow. 29. Mouth of Big River, Fort George. 30. Kumishoo's Bay, forty miles south of Fort George. 31. Off South Point of Rupert's Bay. 31. Off South Point of Rupert's Bay. 32. Post Summan Fishery Cove. 33. Off South Point of Rupert's Bay. 34. Off South Point of Rupert's Bay. 35. Off South Point of Rupert's Bay. 36. Visit Summan Fishery Cove. 37. Off South Point of Rupert's Bay. 38. Off South Point of Rupert's Bay. 39. Off South Point of Rupert's Bay. 30. Visit South Point of Rupert's Bay. 30. Visit Summan Fishery Cove. 30. River Fort George. 31. Off South Point of Rupert's Bay. 32. Off South Point of Rupert's Bay. 33. Off South Point Off South Point of Rupert's Bay. 34. Off South Point of Rupert's Bay. 35. Off South Point of Rupert's Bay. 36. Visit South Point Off South Point Off Rupert's Bay. 37. Off South Point Off Rupert's Bay. 38. Dead Dog Cove, after three days' blow. 39. Off South Point Off Rupert's Bay. 30. Off South Point Off Rupert's Bay.	
18. South side Richmond Gulf	
Gulf	68°
20. Opposite Last or Northern Nastapoka Island	
20. Opposite Last or Northern Nastapoka Island	$72^{\circ}$
22. Southeast of Last Nastapoka Island       25.   12.30 P.M.   53°     23. Middle of Nastapoka Sd. between N. River and Salmon Fishery Cove       26.     2.00         24. Midway between Inlet of Richmond Gulf and Belanger's Island       27.   6.00         25. Open Sea between Great Whale River and Manitounuck Sound       27.   6.00         26. Great Whale River, opposite H. B. Co.'s Post       2.     2.00 P.M.   54°     27. Off Esquimanx Harbour         3.   1.30           28. Dead Dog Cove, after three days' blow         6.     3.00         51°     29. Mouth of Big River, Fort George       18.   7.00 A.M.   59°     30. Kimishoo's Bay, forty miles south of Fort George       19.   7.00           31. Off South Point of Rupert's Bay                                       32. 12.30 P.M.	55°
23. Middle of Nastapoka Sd. between N. River and Salmon Fishery Cove	66°
Salmon Fishery Cove	65°
24. Midway between Inlet of Richmond Gulf and Belanger's Island	=00
Belanger's Island	70°
25. Open Sea between Great Whale River and Manitounuck Sound  26. Great Whale River, opposite H. B. Co.'s Post	050
tounuck Sound  tounuck Sound  Sept. 1. 11.00 A.M.  22. 2.00 P.M. 54°  13.00 F.Squimaux Harbour.  13.00 F.Squimaux Harbour.  14.00 A.M.  52°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150°  150	65°
26. Great Whale River, opposite H. B. Co.'s Post   1	53°
27. Off Esquimaux Harbour	59°
28. Dead Dog Cove, after three days' blow	56°
29. Mouth of Big River, Fort George	58°
30. Kunishoo's Bay, forty miles south of Fort George.   19 7.00   50° 55°   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19 7.00   19	51°
31. Off South Point of Rupert's Bay " 21 7.60 " 55°	49°
	50°
Average Of five rivers. 61° 53°	62½°