

SLEDGING AND SLEDGES. 2. Recent Expedition, *continued*—

the heavy snow, 7821; often unable to go round the hummocks, 7821-25; their height about fifteen feet, 7824; arrangements for getting sledges over, 7829; arrangements for cutting roads and advancing sledges, 7824-9; and walking in deep snow, 7833-4; the road made whilst sledges were being packed, 7827; the weather foggy on return, 7835; had to encamp for three days at different times on account of weather, 7836-8; raidings by Captain Markham during this time, 7838; travelled by night to avoid the sun, 7840-42; wore green glass goggles, 7843; time taken to encamp and get meals ready, 7845-6.

Color-Sergeant Wood—

Travelled nine hours a-day, 7911; sometimes by night, 7913; tea taken after four and a-half hours' sledging, 7912-13; extent to which men suffered from thirst, 7984; advanced by half loads after supporting sledge left, owing to heavy snow, 8010-12; only the collapsible boat carried, 8003; what double banking was done, 8000-8801; the foot gear was changed every night and snow suit taken off, 8021-2; what amount of double manning was done, 8056-61; the nature of the work of double manning, 8058; double manned for days together soon after starting, 8061; the work of sledging is very hard, 8064; perspired freely, 8066; did not suffer from cold during halt but kept moving, 8067-8; quite strong when the first marks of scurvy appeared, 7994.

Mr. Emmerson—

Enumeration of his sledge journeys, 8086; account of journeys, 8111-12, 8114-19, 8125-29; unloaded his sledge on one occasion in crossing Robeson's Strait, 8121; double manned a part of the way on the Greenland journey, 8122-24; on return to "Discovery" men had been travelling about forty days, 8142.

William Jenkins—

His tools would have been serviceable, 8435; the sledge crew as good as could be picked, 8439.

Dr. Rac—

Work of recent expedition exceptionally hard, owing to exceptionally soft snow and rough ice, 8841; comparison of nature of work in his and their journeys, 8879-82; doubts whether anything could be worse than some he encountered, 8881.

Sir A. Armstrong—

The sledging of the late expedition very severe, more so than that of the work of "Investigator," 8974-5; the northern party's task impossible (on assumption that they were to reach the pole), 9147; want of appetite infers over-exhaustion, 9150; exhaustion produced, though less exposed to drag-rope than other expeditions, 9216; the snow produced greater exhaustion, in spite of double-manning, than in previous expeditions, 9217.

3. Former Expeditions—

Captain Hamilton—

Enumeration of sledge journeys, distances performed, and temperature, 2993-4; what the depth of the snow and nature of ice was in his journeys, 3080-90.

Admiral Richards—

Sledge journeys he performed, 3092; the character of the ice, it was generally good; bad in June and July, owing to water, 3093; two or three feet of snow, but hard enough to bear the sledge, 3094-5; the distance made good not a fair comparative estimate of the difficulties, 3098; reasons for this, 3098; journey from "Assistance" to "Resolute," 3114-16; to what extent he has had to unload the sledge and advance by several trips, 3117; what weights they dragged, 3127; low temperature sledging prevented men eating and sleeping on journey from "Assistance" to "North Star," 3219-20; suffering from thirst, disposition to eat snow, 3107, 3222.

Sir L. McClintock—

Enumeration of sledge journeys, distances travelled, and temperatures, 3242; the ice was generally smooth, but seldom free from hummocks, 3243; the snow seldom more than a foot deep, 3244; soft after May, 3245; the average temperatures, with a description of the wind, give an estimate of the weather, 3247; men were always worked up to their greatest capability, 3345; any long continuance of heavy ice would have knocked the men up, 3378-9; the cold at that time not great, 3379.

Captain Hobson—

Enumeration of sledge journeys, distances travelled, and temperatures, 3408; kept much along the land, very heavy ice between King William's Land and Cape Felix, 3409; a good deal of wind, 3411; great difficulties in autumn journey from "Fox," owing to ice breaking away from the shore, 3420-21; the exposure had no bad effect, on the men, but the journey was short, 3422-4; sledging from "Rattlesnake," his crew and rations, 3454-8; account of ice on journey to Chamisso Island, its hard work, 3519-21.

Mr. Toms—

What the sledge parties from the "North Star" and "Pioneer" were, 3553, 3682-3, 3703.

SLEDGING AND SLEDGES. 3. Former Expeditions, *continued*—

Captain A. Young, "Fox"—

Enumeration of sledge journeys, and distances travelled, and temperatures, 3761; description of his journeys, 3762; on his first journey the travelling fair, 3762, 3775, his second, the ice very good, but travelling on return tedious, 3762; third journey, sufferings from broken ice, and loss of fuel; exhaustion on return, not having had strength enough to build snow houses for twenty days, 3762, 3828-33; fourth journey, water up to knees, and consequent exhaustion on return, 3762, 3854; the snow four feet deep on these journeys, 3763-4; quite loose between the hummocks, 3765; except in third journey he encountered no difficulties equal to those of the recent expedition, 3766; never necessary to unload the sledge, or make two trips on third journey, 3775-6; arrangements for sleeping, 3778-80; no signs of water, 3786; arrangements at night for eating and smoking, 3881.

Dr. Scott, "Intrepid," 1852-54—

Enumeration of sledge journeys, distances travelled and temperatures, 3882; away in autumn only, 3884; under Sir L. McClintock, 3924; nature of the ground very rugged, travelling slow, 4032; but little snow, it was soft and sludgy, 4032; deep in the ravines, 4036; the ice very thin; one of the carts went in, 4035; smooth compared with that of recent expedition, 4037.

Mr. Edie, "Assistance," 1850-51—

Enumeration of sledge journeys, 4042; officers did not drag, except when difficulties arose, 4098; his journeys were with man-sledges, 4131-41; what the temperature was, 4137, 4247; the snow in the autumn soft, in the spring hard, 4234; not deep on the floe, but was in ravines, 4235; travelled by night, 4248; the ice was rough and hummocky, 4260; snow soft after a fresh fall, sank quite a foot in it, 4261.

Dr. Lyall, "Assistance," 1852-54—

Enumeration of sledge journeys on which he was engaged, 4266; description of them in Sir E. Belcher's expedition, 4337-41; were with man-sledges, 4342; the nature of the ice varied, the work very hard when rough, 4343; very difficult and trying when thin, 4343; the ice more or less rugged, but sometimes smooth along the shore, 4422; the snow generally firm enough to bear the sledges, 4423; after it began to melt, the men would sink up to their knees where it had drifted, 4423-4.

Dr. Piers, "Investigator," 1850-54—

A considerable amount of sledging done after first winter, 4463; after the second winter none done, except to Melville Island, 4466-8, 4613; abandonment of the ship, journey to "Resolute," 4471, 4474, 4559-62; men worked well with unimproved prospect, and the sledges light, 4474-5, 4478; travelled nine and a half hours without tenting, 4478; longest journey in 1851 forty days, 4571-2.

Vice-Admiral Ommanney, "Assistance," 1850-51—

Enumeration of sledge journeys, 5730; preparation made for sledging, 5753; and warm bath given, 5753; returned in perfect health, except for frost-bite and snow-blindness, 5755; a short rest, baths and fresh meat given, and men resumed duty in two days, 5755; the officers did not usually pull, with certain exceptions, 5770; snow six or eight inches deep, sometimes ice hummocky, 5821, 5888; he always avoided over exertion, 5824; description of the ice he met, 5888-9, 5917; some of it about Cape Walker something like what the recent expedition encountered, 5889; being very rough travelling, 5917; average journey of ten or eleven miles a-day on the other ice, 5917; suffering from confinement in tent during snow storm, 5918; they were man sledges, 5862; what they and their crews were, 5863-6, 5874.

Rear-Admiral Pullen—

Hard work and heavy ice encountered in journey to Cape Bathurst, 6180; heavy work sledging across Wellington Channel, 6225-7; had to unload the sledge, 6226; statement of equipment of sledge, 6230; the ice in his sledge journeys very heavy and hummocky, the standing haul often necessary, 6237; soft snow where the hummocks were piled up, 6238.

Mr. Bayley, "Assistance," 1852-54—

Enumeration of sledge journeys, was under Admiral Richards, 6247-48, 6370-73, 6504; sledges were man-sledges, 6384; work hard, ground sometimes difficult, 6385-6; occasional rests on account of weather, or to dry clothes, 6387-89; injurious effects of extreme cold in a journey in February, 6419-35; loss of appetite entirely due to cold, 6494; ice was difficult and hummocky on several occasions, 6492-3, 6505; but seldom had to make roads, 6505; character of ice and snow on respective journeys, 6504-10; travelled sometimes by night, 6390; to avoid effects of sun on the eyes, 6491.

J. Organ—

Enumeration of sledge journeys, 6530, 6622; had to return from journey in May from "Enterprise" with Sir J. Ross, owing to frost-bite, 6624-7; heavy snow in travelling, and illness of some of the party, 6687-49; his