

INDEX

companion of Shackleton (October, 1908), i. 39 Adare, Cape, ii. 190 Adelaide Island, discovered in 1830, Adélie Land, discovered in 1840, i. 9 Adélie penguins, i. 176 Adie standard barometers, ii. 376 (Appendix) Air: temperature and thermometers, ii. 377 (Appendix); humidity of the, ii. 378 Albatross, ii. 302, 333, 338 Alcohol, use of, i. 69 Alexandra Mountains, ii. 240, 246 Andersson, Dr. Gunnar, of the Swedish expedition, i. 33; ii. 249 Antarctic Circle, i. 164; ii. 302 Antarctic discovery, historical outline of, i. 3 et seq. Antarctic, expedition of the, under Nordenskjöld (1901), i. 32 et seq. "Antarctica," discovered by Captain Kristensen (1895), i. 18 Apparatus for taking water temperatures, ii. 318 et seq., 407 Archer, Colin, builder of the Fram, ii. 356 (Appendix) Arctowski, Henryk, geologist of the Belgian expedition, i. 19 Armitage, Lieutenant, of the Discovery expedition, i. 26 Arrival at the South Pole, ii. 121 et sea. Astronomical observations, report on, ii. 399 et seq. (Appendix)

Avalanches, ii. 58, 157 Axel Heiberg Glacier, ii. 47, 53, 156, 157 Balleny Islands, discovered by John Balleny (1830), i. 8; ii. 191 Balloon Bight, ii. 287 Barne, Mr., of the Discovery expedition, i. 26 Barometers: lowest reading recorded, ii. 313; outfit of, ii. 373 et seq. (Appendix) Barrier: the great Antarctic or Ross, i. 14, 25, 48, 49, 259, ii. 287; the Fram reaches (January 13, 1911), i. 167, ii. 287; landing at, i. 171; ascent of, i. 208, 214; the house on the, i. 287; weather conditions on, i. 346; its solid foundation, i. 347; return to, ii. 159; the Eastern expedition crosses the ii. 217; sea edge of the, ii. 232, 265; Prestrud's description of, ii. 298 Bay of Biscay, i. 114 Bay of Whales. See Whales Beacons: erection of, ii. 22, 25, 75; value of, ii. 85, 134, 137 Beard-clipping, ii. 101 Beardmore Glacier, i. 39; ii. 29 Beck: one of the sea party, i. 179; the Buenos Aires trip, ii. on 293 Belgian expedition, the, i. 18 et elgica: leaves Antwerp (1897), i. 18; results of her voyage, i. 20; is caught in the ice, i. 21; suffer-ings of the crew, i. 23; reaches Belgica: leaves

Straits of Magellan (March, 1899),

439

i. 25

Aurora (Dr. Mawson's ship), i. 202;

Aurora australis, i. 254, 283, 347; ii. 339, 353, 383 (Appendix)

ii. 352



440 INDEX

von Bellingshausen (explorer) discovers land south of Antarctic Circle, i. 8 Benguela Current, investigations of the, ii. 417 et seq. (Appendix) Bernacchi, physicist of the Discovery expedition, i. 26 Betty, Mount. See Mount Binoculars, i. 87, 246 Biscoe, John, discovers Enderby Land and Graham Land, i. 8 Biscoe Bay, ii. 247 Biscoe Island discovered (1830), i. 8 Biscuits, i. 88; ii. 36 Bjaaland, Olav: ski-maker, i. 137, 138; one of the land party, i. 179; left at Framheim, i. 206; his underground workshop, i. 312; underground workshop, i. 312; constructs a vapour-bath, i. 330 et seq.; builds four new sledges, i. 349; one of the Pole party, ii. 20; the excellence of his sledges, ii. 92; his reliability as "forerunner," ii. 166 Blankets, i. 63, 67 Bligh's Cap (Kerguelen), i. 156 Blizzard: of November 26, 1911, ii. 69 et seq.; of December 2, ii. 97 Blom, Captain Christian, i. 95; his account of the construction of the Fram, ii. 356 et seq. (Appendix) Boots, i. 65, 351, 369, 429; for skiing, i. 83, 84, 170, 225 Borchgrevink, Carstens, leader of the Southern Cross expedition (1899), Bouvet (explorer), i. 5 Bouvet Island, i. 26 Brakes for sledges, ii. 45 Brazil Current, investigations of the, ii. 417 et seq. (Appendix) ceakfast at Framheim, Breakfast at et seq. ruce, Dr. William: his first ex-ploration to the South Shetlands Bruce, in the Balæna (1892), i. 17; with Mr. Andrew Coats in Spitzbergen, i. 35; sails in the Scotia to the South Orkneys, i. 35; discovers Coats Land, i. 35

Buenos Aires: arrival of the Fram at, ii. 315; street accident in, ii. 322; departure from (June 8, 1911), ii. 316; return to (Suptember 1, 1911), ii. 328; want of money at, ii. 329; second departure from (October 5, 1911), ii. 331; last arrival at (May, 1912), ii. 354

Buntline, use of (on a sail), ii. 309 (note) Burberry windproof clothing, i. 81; ii. 220 "Butcher's Shop," the, ii. 63, 150 et seq. Cabins, fitting of, i. 66 Cabral (explorer), i. 4 Cabral (explorer), 1. 4
Cameras, i. 88
Campbell, Lieutenant, of the Terra
Nova, i. 204; ii. 294
Canary, "Fridtjof," the, i. 61; ii. 312
Cape Adare, ii. 190 Cape Colbect, ii. 239 Cape Horn: in calm weather, ii. 315; snowstorm off, ii. 354 Cape Hudson, i. 29 Cape Man's Head, ii. 183, 289 Carmen Land, ii. 171 Carpenter's shop, i. 272 Cases of provisions, landing the (at Framheim), ii. 291 Challenger expedition, the, i. 16; ii. 433 Charcot, Dr. Jean, discovers the Loubet, Fallières, and Charcot Lands, i. 35 Chocolate, i. 89; ii. 36 Christmas Day in the *Fram* (1910), i. 159 et seq.; at 88° S., i. 533; at Framheim, ii. 264; (1911) at sea, ii. 339 Christophersen, Mount Don Pedro. See under Don Christophersen, Don Pedro, ii. 329, 330, 354 Chun, Professor (of Leipzig), and the Valdivia expedition, i. 26 Cigars, i. 70, 98; at the Pole, ii. 132 Cinematograph, ii. 2 Clothing: Polar, i. 61, 365, ii. 220;

boots, i. 65, 83; sealskin, i. 66;



INDEX

441

reindeer-skin, i. 78, 79, 209, 365; Burberry windproof, i. 81, ii. 220; mits and gloves, i. 82; on the first trip, i. 217; stockings, i. 357; carried in sledges, ii. 19 Clothing store constructed, i. 277, 350; ii. 37, 102, 220, 265 Colbeck, Cape, ii. 239 Compasses, i. 86, 87, 245 Cook, Captain James, crosses the Antarctic Circle (1773), i. 7 Cook, Frederick A., of Brooklyn: surgeon of the Belgian expedition, i. 19; his good work, i. 23, 24 Cooking apparatus, i. 85, 191 "Crab-eater" seals, ii. 276 Crevasses. See Fissures Crozet Islands, ii. 336 Cyclones, ii. 313

Dallmann, Captain Eduard, and the Grönland, i. 16

Danco, Lieutenant Émile, of the Belgian expedition, i. 19, 22

David, Professor, reaches the South Magnetic Pole in Shackleton's expedition, i. 40

Depots: erection of the first, i. 219; fixing its position 80° S., i. 230, 231, ii. 173; the second (in 81° S.), i. 233, ii. 172; the third (in 82° S.), i. 239; last depot journey starts (March 31), i. 254; list of provisions in the three depots, i. 258; state of the depot 82° S. in October, i. 100° the family (23° S.) ii. 127, 169; the fourth (83° S.) constructed, ii. 129, 167; the fifth (84° S.), ii. 131; the sixth (85° S.), ii. 33, 162; the seventh (86° 21' S.), ii. 79, 81; the last (88° 25' S.), ii. 115

Deutschland, the (German expedition), ii. 353

Devil's Ballroom, the, ii. 103, 145 Devil's Glacier, the, ii. 84, 94, 145 Diaz, Bartholomew, i. 4

Diesel engine of the Fram, ii. 370

(Appendix)

Discovery: expedition sails from Cowes under Captain Robert Scott, VOL. II.

August, 1901, i. 26; discovers King Edward VII. Land and winters in McMurdo Bay, i. 27; results of sledge expeditions, i. 28; the relief ship Morning brings orders, i. 29; return home of the Discovery (September, 1904), i. 29

Dobrowolski, Antoine, meteorologist of the Belgian expedition, i. 19 Dog cutlets, ii. 57, 64, 65, 69

Dog-drivers, advantage of experienced, i. 50

Dog-harness. See Harness Dogs: food for, i. 56; obtained from Greenland, i. 56; preferable to Manchurian ponies, i. 57 et seq.; harness for, i. 86; taken on board the Fram, i. 106; arrangements for their comfort, i. 108 et seq.; their food on board the Fram, i. 119, 120; howling concerts, i. 120, 195; a litter of puppies, i. 121, 142; in the heat of the tropics, i. 142; let loose on deck, i. 145; two lost overboard, i. 153; first start in harness, i. 181, 182; love their work, i. 187 et seq.; respect their master, i. 196; Lassesen frost-bitten, i. 201; their performances. ance on the first depot journeys, i. 220, 221; sore feet, i. 231; falls 1. 220, 221; sore teet, 1. 231; talls into fissures, i. 235; end of second journey, i. 240; death of Thor and Lurven, i. 242; and of Rasmus, i. 243; the "Three Musketeers," i. 244; more losses, i. 248; Fix and Lassesen, i. 252; the puppies lie outside, i. 254; losses on the third journey i. 257; more on the third journey, i. 257; more litters, i. 260; Camilla's nursery, i. 262; the kennels at Framheim, i. 303 et seq.; fate of Else's puppies, i. 346; losses during the winter, i. 372; their behaviour on being put again to work, i. 374 et seq.; stragglers fetched home, i. 391; losses on the start for the Pole, ii. 4, 14; Uranus, Jaala, and Lucy shot, ii. 28; a record run, ii. 62; twenty-four dogs shot, ii.

442

INDEX

62; the "Butcher's Shop," ii. 63; their omnivorous behaviour, ii. 110; splendid condition of Hanssen's team, ii. 115; deaths of Helge and the Major, ii. 123; of Lasse, ii. 137; of Per, ii. 139; of Svartflekken, ii. 140; health of, on the return journey, ii. 143; Frithjof has to be killed, ii. 160; the remains of Jaala and her puppies, ii. 169; on board the Fram once more, ii. 182; seal-hunting by, ii. 213, 214; on the eastern sledge journey, ii. 215; Peary turns up again, ii. 224; twenty-two dogs given to Dr. Mawson's expedition, ii. 352
Dog-tents, i. 223, 261
Don Pedro Christophersen, Mount, ii. 30, 44, 48, 52, 149, 154, 156
Dougherty Island, ii. 302
Drake, Sir Francis, i. 5
Drygalski, Professor, of the German

11. 30, 44, 48, 52, 149, 154, 156
Dougherty Island, ii. 302
Drake, Sir Francis, i. 5
Drygalski, Professor, of the German Gauss expedition, i. 29
Dumont d'Urville, Admiral, discovers Louis Philippe Land and Joinville Island (1838), Adélie Land (1840), i. 9

Eastern sledge journey: Prestrud's account of the, ii. 204; objects of the, ii. 206; on the Barrier, ii. 217, 230; its sea edge, ii. 232; arrival at Depot No. 1, ii. 225; outfit and equipment, ii. 226; presence of petrels and skua gulls, ii. 231; sounding the bay, ii. 234; Queen Maud's birthday (November 26), ii. 236; Alexandra Mountains, ii. 246; geological discoveries, ii. 249; a three days' snowstorm, ii. 252 et seq.

Emerald Island wrongly charted, ii. 196 Emperor penguin, the i 185, 201

Emperor penguin, the, i. 185, 201
"Encircling" the Pole, ii. 125 et seq.
Enderby Brothers send John Biscoe
to the Antarctic Ocean (1830), i. 8
Engine, Diesel motor, of the Fram,
i. 98; ii. 281, 302, 370

Equipment: medical, i. 71; ammunition, i. 72; petroleum, i. 72; scientific, i. 73; hut (wooden), i. 73; tents, i. 75, 77; sledges, i. 76; skis, i. 76; importance of foresight in providing, i. 370; amounts carried in the sledges, i. 410, 411; of the eastern sledge party, ii. 225, 226

Evensen, Captain, approaches near Alexander 1. Land, i. 17 Eyes, soreness of, i. 215; ii. 242, 261

Farthest South hitherto reached (88° 23') is passed, ii. 114

Feet: effect of soft and hard boots on, i. 83; frozen heels, i. 387

Ferrar, geologist of the Discovery expedition, i. 26

Fissures: on the Barrier, i. 235, 256, ii. 3, 7; on the dangerous zone, ii. 11, 12, 23, 24, 25, 98; the Devil's Ballroom, ii. 103, 104, 161; the eastern sledge party's experiences of ii. 210, 238

of, ii. 210, 238
Flag of Norway unfurled at 88° 23',
ii. 114; and at the Pole, ii. 122

Flying-fish, ii. 283
"Foggy Fifties," the, ii. 337

Forerunner, ii. 221, 227

Fossils, ii. 249

Fram, the: course of her second voyage, i. 39; Lieutenant Nilsen her commander, i. 45, 207; plan of campaign for third voyage, i. 46; cabin furniture, i. 66; library and games, i. 68; loading the cargo, i. 90; leaves Christiania for Bundefjord (June 3, 1910), i. 92; takes in ammunition at Horten (June 7), i. 94; her sailing qualities, i. 96 et seq., ii. 335; return to Bergen to repair the motor, i. 98, ii. 281; takes in the Eskimo dogs, i. 100, 106, ii. 281; final departure from Christiansand (August 9, 1910), ii. 281; anchors in the Downs off Deal, i. 112; in the Bay of Biscay, i. 114; washing decks, i. 116; arrival at Madeira (September 5,



INDEX

443

1910), i. 125, ii. 282; state of her hull, i. 139; her rigging, i. 140; crossing the line, i. 148, ii. 284; in a gale off the Cape, i. 152; meals on board, i. 157; Christmas Day (1910), i. 159; in the Antarctic Circle, i. 164; enters the Ross Sea, i. 166; reaches the Great Ice Barrier (January 13, 1911), i. 167, ii. 287; enters the Bay of Whales, i. 169; farewell to, i. 207; her departure, i. 220, ii. 207; her return from Buenos Aires (January 8), ii. 174, 267 et seq.; arrival at Hobart, ii. 202 et seq.; account of her voyage from Norway to the Barrier by Lieutenant Nilsen, ii. 280 et seq., and from the Barrier to Buenos Aires, ii. 294 et seq.; Lieutenant Nilsen receives his orders for her voyage to Buenos Aires, ii. 296; her rolling capabilities, ii. 304; her behaviour in a hurricane, ii. 309 et seq.; even temperature maintained in her hold, ii. 315; repainting of, ii. 323; visit to Buenos Aires (June, 1911), ii. 315, 316, 322; wear and tear of sails, ii. 324; plague of rats, ii. 326; return to Buenos Aires (September, 1911), ii. 328; second departure from (October, 1911), ii. 331; arrival off the Barrier (January, 1912), ii. 314, 346, 349; final departure (January 30, 1912), ii. 350; slow progress to Hobart, ii. 352; arrival at Buenos Aires (May 23, 1912), ii. 354; Commodore Blom's account of her construction, ii. 356 et seq. (Appendix); Captain Otto Sverdrop's alterations for his expeditions, ii. 362

"Framheim," i. 194, 202; big additions to, i. 222; seen in mirage, i. 247; return to (after second journey), i. 248; life at, i. 253, 283 et seq.; the workshops, i. 309 et seq.; the library, i. 314; a vapour-bath, i. 330 et seq.; a feast underground, i. 338; dart-throwing competition,

i. 340; "lights out," i. 343; arrival at, on return journey, ii. 173 "Fridtjof," the canary, i. 61; ii. 312 Fridtjof Nansen, Mount. See under Mount Fridtjof Nansen, Professor. See under Nansen Frost-bite, i. 83; ii. 99 Frost-sores, ii. 116

Gauss expedition: leaves Kiel (August, 1901), i. 30; discovers Kaiser Wilhelm II. Land and the Gaussberg, i. 31; returns home with good scientific results (1903), i. 31

Geology, ii. 249, 395 et seq. (Appendix) Gerlache, Commander Adrien de, leads the Belgian expedition (1897), i. 18

Gerritsz, Dirk (explorer). i. 5 Gjertsen, Lieutenant, i. 72, 103; one of the sea party, i. 179; his return to Framheim, ii. 269, 346; on the Buenos Aires trip, ii. 294, 315

Glaciers, ii. 41 et seq. 47; the Axel Heiberg, ii. 47, 53, 56, 57, 58; the Devil's, ii. 84, 94, 103

Gloves, i. 82

Goggles, snow, i. 87, 215, 362, 367; ii. 243

de Gonneville (explorer), i. 4 Gramophone, ii. 191

Gulf Stream, investigations of the, ii. 408 et seq. (Appendix)

Haakon VII., King of Norway, i. 2, 66; visits the Fram, i. 92 Halley, Astronomer Royal, i. 5

Halvorsen joins the Fram at Buenos
Aires, ii. 188

Hansen, Ludwig: one of the sea party, i. 179; on the Buenos Aires trip, ii. 294

Hanssen, Helmer: of the land party, i. 179, 211, 212; his good sight, i. 246; his work at Framheim, i. 318; makes the whips, i. 359; one of the party for the Pole, ii. 20; over a crevasse, ii. 24

444 INDEX

Harness for dogs (Alaska v. Greenland), i. 86, 185, 369 Hassel: takes charge of the dogs, i. 101; one of the land party, i. 179; left at Framheim, i. 206; his carpenter's shop, i. 310; makes the whip-lashes, i. 359; one of the Pole party, ii. 20 Heels, frost-bitten, i. 387 et seq Heiberg Glacier, ii. 42, 48, 56, 157, 158 Helland Hansen, Mount, ii. 77, 142 Hell's Gate, ii. 84, 86 Helmer Hanssen's Mountain, ii. 80, 85, 87, 90, 142, 145 Henry, Prince [of Portugal], i. 4 "His Majesty's Ballroom," ii. 104 Hobart Town, ii. 203, 352 Hodgson, biologist of the Discovery expedition, i. 26 Holth, Dr., i. 71 Humidity of the air, ii. 378 (Appendix) Hunger, accessions of, ii. 138 Hurricane, the Fram's behaviour in a, ii. 309 et seq.

Hut (wooden), i. 73, 74, 75, 92;
foundation for, i. 184; erection of the, i. 186, 191, 193; ventilation of, i. 198 Hygrometers, ii. 378 (Appendix)

Icebergs: Lieutenant Prestrud's experiences of, ii. 305, 306 et seq.; temperature of water near, ii. 307, 308; total number met with, ii. 313 Ice-blink, the, ii. 287, 306 Ice-pack, the, in Ross Sea, ii. 341, 342 Ice-tools, i. 72

Japanese expedition, i. 45; ii. 184, 271, 272, 347

Johansen: one of the land party, i. 179, 211; how he packs the sledge provision cases, i. 322; on the Eastern expedition, ii. 215

Kainan Maru [Japanese] expedition,
i. 45; ii. 184, 272, 347, 353
Kaiser Wilhelm II. Land discovered,
i. 31

Kemp (discoverer), i. 9
Kerguelen Island, ii. 337
de Kerguelen - Trémaree, reaches
Kerguelen (1772), i. 6
King Edward VII. Land: and the
Japanese expedition, i. 45; Prestrud's expedition to, ii. 206 et seq.,
228, 245; geology of, ii. 249;
originally discovered by Sir James
Ross (1842), ii. 297
King Haakon VII.'s Plateau at the
Pole, ii. 122
Koettlitz, Surgeon, of the Discovery
expedition, i. 26
Kristensen, Captain Leonard, discovers "Antarctica" (1895), i. 18
Kristensen, H.: appointed reserve
engineer to the Fram, i. 117; one
of the sea party, i. 179; on the
Buenos Aires trip, ii. 294, 305
Kutschin: one of the sea party, i. 179,
ii. 294, 315; leaves the Fram at
Buenos Aires, ii. 188

La Plata River, ii. 315, 421
Larsen, Captain C. A.: brings fossils from the Antarctic region (1892), i. 17; commands the Antarctic in Nordenskjöld's expedition (1901), i. 32
Lashings for sledges, i. 317, 318, 322, 350
Lecointe, Lieutenant G., and the Belgian expedition, i. 18

Library: on board the Fram, i. 68, 139; at Framheim, i. 314
Lindström: in charge of the dogs, i. 102; in charge of cooking, i. 153, 197; one of the land party, i. 179, 198; improves Framheim, i. 248; tries to repair the thermograph, i. 275; prepares breakfast, i. 290; in charge of library, i. 315; plays patience, i. 328; remains at Framheim, ii. 216; attack of snow-blindness, ii. 261

Live stock (pigs and sheep) from Buenos Aires, ii. 332 Longitude, effect on the date of pass-

Longitude, effect on the date of passing from east to west, ii. 298 (note)



INDEX

445

Louis Philippe Land discovered (1838), i. 9

Maal dialect, i. 302 (and note) Mackay accompanies Professor David (Shackleton expedition), i. 40 Macquarie Islands, wireless installation on, ii. 197 Madeira, arrival of the Fram at, i. 125 Magellan, Ferdinand (explorer), i. 4 Manhue, Cape (Ross Barrier), i. 174 Man's Head, Cape, ii. 183, 289 Marion-Dufresne discovers the Crozet Islands (1772), i. 6 Marshall, companion of Shackleton (October, 1908), i. 39 Martin Vaz Islands, ii. 325 Matches, safety, i. 72 Maud, Queen (of Norway), i. 66; visits the Fram, i. 92; birthday celebration, ii. 236 Mawson: companion of Professor David (Shackleton expedition), i. 40; his observations in Adélie Land and on the Barrier, i. 233; wishes to get dogs for his Antarctic expedition, ii. 181, 352; installs a wireless station on the Macquarie Islands, ii. 197 Medical stores, i. 88; ii. 226 Medicine, i. 71; in sledge cases, ii. 19

Meteorological outfit on the Fram, ii. 373 et seq. (Appendix)
Meteorological station, i. 200; its equipment, i. 255, ii. 375; observations, i. 266, ii. 372 et seq.; temperature records, i. 280; instruments

equipment, 1. 255, 11, 375; observations, i. 266, ii. 372 et seq.; temperature records, i. 280; instruments in sledges, ii. 19, 226
Milk-powder, i. 89; ii. 36
Mills, Dr. H. R., i. 1

Mirage, i. 247
Mits, i. 82
Money, Fram's shortage of, at Buenos
Aires, ii. 328, 329

Montevideo, ii. 317, 354 Moore, Lieutenant, his voyage in the Pagoda (1845), i. 15

Morning, relief ship to the Discovery, i. 29

Motor of the Fram, behaviour of the, i. 99, ii. 281, 302; built by the Diesel Motor Company, ii. 370 Mount Alice Gade, ii. 30 Mount Alice Weld Jarlsberg, ii. 30 Mount Betty, ii. 37; its composition, ii. 39, 395, 396; return to, ii. 159, 161 Mount Crown Prince Olav, ii. 31 Mount Don Pedro Christophersen, ii. 30, 44, 149, 156 Mount Fridtjof Nansen, ii. 30, 44, 48, 52, 149, 154, 156 Mount Helland Hansen, ii. 77, 147 Mount Helmer Hanssen, ii. 77, 80, 85, 87, 90, 142, 145 Mounts Nelson and Rönniken, i. 172, 179 Mount Olav Bjaaland, ii. 80, 85, 145, 146Mount Ole Engelstad, ii. 54, 58, 59, 155, 156 Mount Oscar Wisting, ii. 80, 85, 145 Mount Ruth Gade, ii. 30 Mount Sverre Hassel, ii. 80, 85, 145 Mount Thorvald Nilsen, ii. 80, 85, 87, 90, 142 Mount Wilhelm Christophersen, ii. 54

Nansen, Mount Fridtjof. See under Mount

Mount
Nansen, Professor Fridtjof, i. 95; tribute to, ii. 175; his employment of the Fram in his Arctic expedition (1893-1896), ii. 356 (Appendix) von Neumayer, Professor Georg, i. 16 Nilsen, Captain Thorvald: first officer of the Fram, i. 45; his accurate calculations, i. 53; stows away the provision cases, i. 90; one of the sea party, i. 179, 207; his method of getting through the pack-ice, ii. 187; takes the Fram to and from Buenos Aires, ii. 271; his instructions, ii. 304
Nilsen, Mount. See Thorvald Nilsen

Nimrod Group (of Islands), ii. 302 Nödtvedt, one of the engineers of the Fram, i. 117, 138; one of the sea party, i. 179; leaves the Fram at Buenos Aires, ii. 188, 294

> INDEX 446

Nordenskjöld, Dr. Otto, and the Swedish Antarctic expedition, i. 32; is landed at Snow Hill Island (January, 1902), and in October, 1903, meets Dr. Andersson and Lieutenant Duse from the Antarctic, i. 33; they are joined by Captain Irizar of the Uruguay, i. 34; and by Captain Larsen after the sinking of the Antarctic, i. 34; importance of the results of the expedition, i. 34; his geological discoveries, ii. 249

Norway, King and Queen of. Haakon and Maud

Norwegian flag unfurled at farthest south point (88° 23'), ii. 114

Norwegian whaling fleet's explorations, i. 17

Nose-protectors, i. 366

Observations, meteorological, at Framheim, ii. 372 et seq. (Appendix) astronomical, 399 et seq. (Appendix) Oceanography, ii. 404 et seq. (Appendix)

Olav Bjaaland, Mount, ii. 80, 85, 145, 146

Ole Engelstad, Mount, ii. 54, 58, 59, 155, 156

Olsen: in charge of kitchen in the Fram, i. 153, 198; one of the sea party, i. 179; joins the Fram at Buenos Aires, ii. 188

Oscar Wisting, Mount, ii. 80

Pagoda, voyage of the, i. 15 Pedersen, Captain, i. 62

Pemmican: preparation of, i. 55, 56, 88, 322; packing of, ii. 18, 36; ration of, ii. 143

Penguin Island, ii. 336 Penguins, ii. 276, 278, 336; the Adélie, i. 176, ii. 277, 286; the Emperor, i. 185, ii. 277, 293; their cry, ii. 302

Pennal, Lieutenant, Commander of the Terra Nova, i. 204; ii. 294 Petrels: Antarctic, harbingers of

spring, i. 392; sea, ii. 231; snow, ii. 286

Petroleum, i. 72 Photographic cameras, i. 88; taking Hell's Gate, ii. 86

Pigeons: carrier, i. 114; Cape, ii. 333 Pitt Island discovered (1830), i. 8

Plankton specimens, ii. 323 Plateau south of Mount Engelstad, arrival at, ii. 60

Pole: arrival at the South, ii. 121; "encircling" the, ii. 125 et seq.; appearance of the sun's motion at, ii. 181; festival dinner at the ii. 182; cigars at, ii. 182; farewell to "Polheim," ii. 184

Prestrud, Lieutenant: informed of the destination of the expedition, i. 103; one of the land party, i. 179; ascends the Barrier, i. 207, 211; rejoins the Fram as first officer, ii. 189; his account of the eastern sledge party, ii. 204 et seq. Prince Edward Islands, ii. 336

Prince Henry of Portugal (the "Navigator ''), i. 4

Propeller, renewal of brasses of the,

Provisions: seal meat, i. 51; pemmican, i. 55, 56, 88; alcohol, i. 69; tobacco, i. 70; tea, coffee, and sugar, i. 71; medicines, i. 71; biscuits, i. 88; milk-powder, i. 89; chocolate, i. 89; packing of the sledge cases, i. 78, 362, 370, ii. 18; rearranging the loads, ii. 67; landing the cases at Framheim, ii. 291

Queen Maud of Norway. See Maud

Racovitza, Emile, biologist of the Belgian expedition, i. 19 Rats on board the Fram, ii. 326 Reindeer-skin: clothing, i. 78, 209, 365, ii. 37, 102; sleeping-bags, i. 80, 81 Return journey, the, ii. 135 et seq. "Roaring Forties," the, ii. 284, 337 Robertson, Captain Thomas (c

Robertson, Captain Dundee), commands the Scotia in Bruce's expedition (1902), i. 35

Roll, Dr. Jacob, i. 71



INDEX

447

Rönne, M.: sailmaker of the Fram, Sea-leopards, ii. 214, 275 i. 134; his sewing-machine, i. 135; Seal-hunting, ii. 211 et seq., 289 Seal meat preferred to tinned food, one of the sea party, i. 179; hari. 51; ii. 285 Seals, i. 176, 178, 208; ii. 212, 274 ness-maker, i. 185; on the Buenos Aires trip, ii. 294 Ropes, Alpine, i. 170 Sealskin suits, i. 66 Ross Barrier, the. See Barrier Ross Sea, the, i. 166, ii. 186; calmness of, ii. 301; the ice-pack in, Seal steak and soup, i. 165; ii. 276, 285, 301 Sewing-machine, i. 134 Sextants, i. 73, 86 Ross, Sir James Clark: his expedi-Shackleton, Sir Ernest, i. 1; falls ill tion sails in 1839, i. 10; changes in the Discovery expedition (1901his plans at Hobart, i. 11; crosses 1904), i. 26; his expedition in the Nimrod (August, 1907) starts almost unnoticed, i. 37; his great achievement (March, 1909), i. 37, the Antarctic Circle, i. 12; his discoveries, i. 13, ii. 297; Mount Erebus and Mount Terror, i. 13; 40; his plan of campaign, equipthe Ross Barrier, i. 14, ii. 287; returns to Hobart (April, 1841), i. 14; starts again from Hobart (February, 1842), i. 14; his third ment, and transport, i. 38; details of his advance, i. 39; he reaches 88° 23' S., i. 40; Professor David voyage (December, 1842), i. 15; result of his work, i. 15, ii. 297; reaches the South Magnetic Pole, 40; discovery of the Bay of Whales, ii. 288 his probable course through the Ross Sea, ii. 340 Shirase, Lieutenant, and the Kainan Royds, Mr., of the Discovery expedition, i. 26 Maru expedition, i. 45 Shovels, i. 269 Singlet Hill, i. 217 Ruser, Captain Hans, of the Gauss Skelton, Lieutenant, chief engineer of the *Discovery*, i. 26 expedition, i. 30 Ski-running difficulties, ii. 143 Sails, wear and tear of, ii. 324 Skis, i. 76, 83, 137, 170, 208, 363, ii. 21; their great value, ii. 89; ii. 222 St. Helena, ii. 325 Sastrugi (wind-waves), ii. 107, 108, 144, 229 Schanz, Dr., Skua gulls, ii. 164, 231 his excellent snowgoggles, i. 368 Sledge brakes, ii. 45 Sledge lashings, i. 317, 318, 322
Sledges, i. 76; cases for provisions in, i. 78, 362, ii. 18; shoeing of, i. 138; first start, i. 181, 211 et Schroer, Mrs., i. 160 Scientific instruments, i. 72, 73, 86, 87; ii. 19, 407 Scott, Captain Robert: leads the seq., four new ones built, i. 349, 351, ii. 92; packing of, i. 370; in Discovery expedition, i. 26; subsequent expedition, i. 44, 47; his route, i. 52, ii. 240; names "King Edward VII. Land," ii. 297; oba crevasse, ii. 7; steep climbing, ii. 46; reduction of stores on, ii. tains geological information about 67; one left near the Pole, ii. 129 South Victoria Land, ii. 396, 398 Sleeping-bags, i. 79, 80, 251, 258, 366; ii. 19, 221 Smith, Captain William, reaches the (Appendix) Scottish (Dundee) whaling fleet, explorations by, i. 16, 17 South Shetlands (1819), i. 7 Snow-blindness, i. 215; ii. 243, 261 Scurvy, i. 51, 54

Sea-bed, sample-taking, ii. 321

Snow-goggles, i. 87, 215; ii. 243, 261

448

INDEX

Temperature

Snowy petrels, ii. 286 Snow "settling," noise of, i. 385 Snow, varying nature of the, ii. 117 Sounding for sea-bed specimens, ii. Southern Cross expedition, the (1899), i. 25 South Pole: arrival at, ii. 121; "encircling" the Pole, ii. 125 et seq.; the sun's position and motion, ii.

131. See also Pole South Trinidad, ii. 325 Spades, i. 269 Spectacles, i. 87. See also Goggles Spring, arrival of, i. 377, 379, 391, 392Start for the Pole, the (October 20, 1911), ii. 1; loss of dogs, ii. 4; accident at a crevasse, ii. 7; departure from 80° S., ii. 30; arrival at farthest south yet reached by man (88° 23'), ii. 114 Stationery supplies, i. 67 Steller joins the Fram at Buenos Aires, ii. 188 Stockings, i. 357, 365 Storm Bay (Tasmania), ii. 198
Stubberud, Jörgen, carpenter of the
Fram, i. 92; one of the land party, Fram, i. 92; one of the land party, i. 179; builds the hut, i. 186, 198; left at Framheim, i. 206; makes the whip handles, i. 359, 360; on Exercise expedition, ii. 205, the Eastern expedition, ii. 215; a dangerous slip, ii. 233 Sundbeck, Knut, appointed engineer to the Fram, i. 104, 117; one of the sea party, i. 179; on the Buenos Aires trip, ii. 294 Sun's appearance, position, motion at the Pole, ii. 131 and Sverdrop, Captain Otto, uses the Fram in his expeditions, ii. 362 (Appendix) Sverre Hassel, Mount, ii. 80 Tasman (explorer), i. 5

emperature [of atmosphere] records, i. 347 Temperature [of ocean], apparatus for taking, ii. 318 et seq., 407
Tent-pegs, i. 364 Tents, i. 75, 77; first pitched, i. 181; at Framheim, i. 202; on first trip, i. 215; second trip, i. 228; two joined together, i. 236, 258, 352; double or single, i. 352; the question of colour, i. 354 Terra Nova: sealing vessel from Newfoundland, accompanies the Morning in the Discovery expedition, i. 29; puts into Bay of Whales, i. 203, ii. 293; to explore King Edward VII. Land, ii. 297 Thermograph, i. 273 Thermometers, i. 280; ii. 373 et seq. (Appendix) Thermos flasks, i. 218 Thorvald Nilsen, Mount, ii. 80, 85, 87; its height, ii. 90; its different appearance on the return, ii. 142 Tierra del Fuego, i. 5 Tinned provisions, i. 54 Tobacco, i. 70; at the Pole, ii. 124; Wisting's gift, ii. 124 Torup, Professor Sophus, i. 54 Transport: dogs versus ponies, i. 56 et seq.; sledges, i. 76, 78; skis, i.76, 83; dog-harness, Alaska versus

Valdivia expedition (under Professor Chun), i. 26 Vapour-bath at Framheim, i. 330 et seq. Vasco da Gama, i. 4 Vespucci (explorer), i. 4

Greenland, i. 86

Water temperatures, apparatus for taking, ii. 318 et seq., 407 Weather conditions on the Barrier, i. 346 Weddell, James, discovers Weddell Sea (1823), i. 8 Weddell seal, the, ii. 275, 276 West Cape, ii. 287

Tasman Head and Island, ii. 198

Tasmania, its coast-line, ii. 198 "Telemark swing," the, ii. 38

"Temperature guessing," i. 281



INDEX

449

Whalers' explorations round South Shetlands, i. 16, 17, 18 Whales, Bay of, i. 46, 47, 49, 167,

Whales, Bay of, i. 46, 47, 49, 167, 175, ii. 288; inner part frozen over, i. 251; departure from [northward bound], ii. 182; survey of the south-western corner, ii. 265; whaling prospects, ii. 273
Whales: near the Barrier, ii. 273,

Whales: near the Barrier, ii. 273, 293; the finner and the blue whale, ii. 274; dead whale mistaken for land, ii. 299

Whips and lashes, i. 359; a whip-handle duel, i. 361

Wild, companion of Shackleton (October, 1908), i. 39

Wilkes, Lieutenant Charles (American explorer), i. 9

Wilson, Dr., surgeon and artist of the Discovery expedition, i. 26
Wind: prevailing from the south, ii. 136; measurements of the, ii. 381 (Appendix)
Wind-waves (sastrugi), ii. 107, 108
Winter duties, i. 279
Winter, end of the, i. 346 et seq.
Wisting: his way with the dogs, i. 102; in charge at Framheim, i. 210; his sewing-room, i. 319; one of the Pole party, ii. 20; cooks the dog cutlets, ii. 65, 69; makes a chocolate pudding, ii. 170

Zappfe, Mr., his assistance in fitting out the expedition, i. 79

THE END

BILLING AND SONS, LTD., PRINTERS, GUILDFORD