INDEX.

ACTKA, visited by the Fenimore Cooper in search of the Monongahela, 117
Advance, the, equipped by Grinnell, 40; sails from New York, 50; crosses Melville Bay, 54; reaches Beechy Island, 55; returns to New York, 59; loaned to Kane, 65; equipped, 68; in Rensselaer harbor, 71; abandoned, 88.
Agloog, or Igloo seal, 195.
Aglooks (Crozier), described to Hall, 248.
Albatross of the North Pacific, 505; of the Antarctic, 506.
Allen, William, letter to Thomas Penn, 27.
Alliance, the cruise of, 485.
Ambler, J. M., surgeon of the Jeannette, 382; describes Bennett Island, 401.
American early voyages for Northwest Passage, 24.
American explorations, table of, 527; beneficial results, 558.
Amoukta Passage the, examined by Brooke, Filebrown, and Knorr, 129.
Andromeda Tetragna, 72.
Angekos, and Ankooting, 196, 216, 245.
Antarctic zone, compared with Arctic, 18, 491; discoveries in by Palmer, 494; by Wilkes, 508; by Ross, 513; by D’Urville, 514; ice within, 522, 524.
Antisell, Dr., on the Kuro Siwo, 368.
Arctic exploration, the field of, 17; original object, 20; beneficial results, 29, 525; DeHaven’s, 41; Kane’s, 65; Rodgers’, 108; Hayes, 132; Hall’s first, 161; second, 199; third, 269; Schwatka’s, 345; DeLong’s, 369; Hooper’s, 428; Long’s, 458; Raynor’s, 463; Berry’s, 473; Wadleigh’s, 486; table of, 527.
Arctic night, described by Hayes, 144; by DeLong, 393.
Argo, the voyage of (1753), 25.
Auroras seen by Hall, 239, 241; by Mauch, 306, 309; by Powell, 556.
BABBE, G. F., Midshipman, lost at sea, 112.
Bache, A. D., Superintendent Coast Survey, aids the Grinnell expedition, 60, 65; endorses Arctic exploration, 526.
Baker’s death, 76.
Barrow, Sir John, revives Arctic exploration, 30; sends out a tablet in memory of Bellot, 57; endorses Arctic exploration, 529.
Barrow Point, meteorological station at, 553.
Beechy Island, visited by DeHaven, 56; visit attempted by Kane, 78.
Bennett, James G., purchases the Pandora, 364; interview with Dr. Petermann, 365; sends Jackson to search for DeLong, 407; Bennett Island discovered, 400.
Bering Strait, voyage to by Cook, 23.
Berry’s, R. M., Lieutenant, search for DeLong, 473, 527.
Bessels, E., sails with Hall, 270; pendulum observations, 307.

571
572

INDEX.

Bliss, S. J., Acting Lieutenant, lost at sea, 112.
Boats, the three, leave Bennett’s Island, 402; Semenovskiy Island 403.
Boggs, W. B., Purser on the Vincennes, 111.
Bonsall, Amos, sledge party under Kane, 73.
Braine, D. L., Captain, sails for relief of Hall, 325; returns to New York, 326.
Bridge, W. K., Acting Lieutenant, lost at sea, 112.
Brooke, John M., Captain, U. S. N., on the Vincennes, 111; notes of the loss of the
Porpoise, 118; survey on the Japanese coast, 114; deep sea sounding apparatus, 118;
notes at Semilavie Straits, 123.
Brooks, Henry, second officer of the Rescue, 47.
Budington, S. O., sails with Hall, 270; commands the Polaris, 298; fails to get North,
312; rescued by the Ravenscraig, 329.

CABOTS, the voyages of the, 21.
Capes, Alexander, 84, 95; Athol, 137; Beechey, 57; Constitution, 96; East, 124; Fare-
well, 53; Independence, 90; Isabella, 78; Lieber, 148; Lisburne, 433; Riley, 57; Sabine,
542; Serdize Kamen, 377, 451; Spencer, 50; Union, 147; York, 136, 326.
Carter, R. R., Passed Midshipman, U. S. N., on the Rescue, 47.
Chandler, W. E., Secretary of the Navy, telegram to by Melville, 413; orders to Danen-
hower, 414; to Harber, 418; convenes Relief Board, 668.
Chapell, R. H., assists Hall, 205.
Chester, H. C., lands Hall, 208; sails on the Polaris, 279; boat journey, 310.
Chipp, C. W., Lieutenant, U. S. N., Naval Record, 374; attempts landing on Herald
Island, 390; aurora seen by, 394; on sick list, 397; commands second cutter, 402;
searched for by Melville, 416; by Harber, 418.
Clay, Henry, Hon., presents the Grinnell memorial, 46.
Clayton, John, Secretary of State, letter to Lady Franklin, 42.
Coast survey, United States, aids Kane’s expedition, 65; aids Dr. Hayes’ expedition, 133.
Collins, Jerome, Jr., meteorologist of the Jeannette, 373.
Conger Fort, 537.
Congress, United States, resolution for DeHaven’s expedition, 44; appropriations for relief
of Kane, 86; for Ringgold’s expedition, 108; for Hall’s third expedition, 269.
Cook, James, Captain, Arctic voyage, 23; Antarctic voyage, 492, 519.
Cooper, J. Fenimore, the, 109.
Corwin, revenue steamer, the, sails in search of the whalers and DeLong, 429; second
search, 447; officers of, 448.
Currents of the Arctic, local only, 368.

DALL, W. H., coast survey on the Kuro Siwo, 367.
Danenhower, J., Lieutenant, U. S. N., joins DeLong at Havre, 365; placed on sick list,
383; search for DeLong, 407; returns to United States, 408.
Davenport, Captain, U. S. N., commands the Congress, 275.
Davis, Jefferson, objects to Arctic appropriations, 47.
Davis’, John, voyages, 22.
DeHaven, E. J., Lieutenant, commands first Grinnell expedition, 47; instructions of the
department to, 48; drift in Wellington Channel, 59; final report to Navy Department,
55; commendation by Secretary of Navy, 61.
DeKrafft, J. C. F., Commodore’s chart of Bering Sea and North Pacific, 115.
DeLong, G. W., Lieutenant, U. S. N., naval record, 369; proposes an Arctic exploration,
364; chooses the Bering Strait route, 395; errs in this, 397; sails from San Francisco,
373; visits Cape Serdize Kamen for Nordenfjeldt, 377; enters the pack, 378; abandon-
theory, 388; discovers Jeannette and Henrietta Island, 396; abandons the Jeannette,
INDEX. 573

398; discovers Bennett Island, 400; lands on Semenovskoi Island, 403; on the Delta, 409; last journal notes, 411; buried by Melville, 414; his tomb visited by Harber, 420; brought to United States, 427.

Diligence, voyage of the, 25.

Disco, visited by DeHaven, 59; by Hartstene rescuing Kane, 91; by Braine, 325; by Greer, 326; by the Neptune, 546; by the Yantic and the Proteus, 548.

Dobbin, Secretary, instructions to Hartstene, 91.

Dogs, Eskimo, disease of, 253.

Ebierring (Joe), first met by Hall, 176; seal hunts, 230; history of, 340; accompanies Hall, second expedition, 206.

Elder's, Dr., biography of Kane, 51.

Eothen, the, sails from New York, 347.

Erebus and Terror, visit to Tasmania, 31; sailing for Northwest Passage, 32.

Eskimos or Innuils, first met by Hall, 176; Armon, Artooa, and Ouela, 210, 212; Armon's coast line, 243; feasts of, 215; games, 215; Eskimos of Etah, 82, 89; of the Northwest coast, 440.

Expeditions, Arctic, Cabot's, 21; Davis', Hudson's, and Baffin's, 22; the Argo and Diligence, 25; the Trent, 31; Franklin's, 32; for relief of Franklin, tables of, 35, 37; DeHaven's, 41; Kane's, 65; Rodgers', 108; Hayes', 192; Hall's, 162, 190, 269; Schwatka's, 345; DeLong's, 393; Hooper's, 438; Long's, 490; Raynor's, 493; Berry's, 473; Wadleigh's, 485.

Fillerbrown, T. S., Lieutenant, on the Vincennes, and naval record, 111; observations, 122.

Florence, the, cruise of, 535.

Folger, W. J., Secretary of Treasury, tribute to Rodgers, 115.

Foulke Fort, Hayes' winter quarters, 137.

Franklin, Benjamin, Dr., secures a voyage for Northwest Passage, 25.

Franklin, Sir John, early life, 30; voyage on the Trent, 31; journeys to North coast of America, 31; last expedition, 32; relief expeditions for, 35; monument in Waterloo Place, 39; in Westminster Abbey, 40: discovers Northwest Passage, 39, 266.

Franklin, Lady J., letters to President Taylor, 41; monument to Sir John at Beechy Island, 57; invites Kane to make explorations, 68.

Franklin expedition, records found by Hobson, 162; relics of, 38.

Frobisher's, Martin, shorter route to Cathay, 21; three voyages, 186; relics of brought home by Hall, 203; Admiral Collinson's voyages of, 203.

Fyffe, J. P., Lieutenant, attached to the Relief, 91.

Geographical Society, American, receives Kane, 66; receives Hall, 165.

Gilder, W. H., visits the Kinnepatoos, 349; sledge journey with Schwatka, 358; sums up the results of the expedition, 390.

Glacier, Great, of Greenland, visited by Kane, 76, 102; system discussed by Hayes, 153.

Glassenapp, observing party from the Vincennes located on, 121.

Godhavn, visited by Kane, 59; by Hall, 71; by the Florence, 536; by the Proteus, 538.

Graves, the three found on Beechy Island, 56.

Greenland, Northern extension of, 67, 95, 97.

Greer, J. A., Commander, sails for relief of Hall, 324; returns to New York, 327.

Greenly's, A. W., Lieutenant, expedition to Lady Franklin Bay, 537.

Grier, Wm., Fleet Surgeon to exploring expedition, 111.

Griffin, S. P., U. S. N., commands the Rescue, 47.
INDEX.

Grinnell Land, discovered by DeHaven, 60; East coast of Grinnell Land discovered by Kane, 96; traced by Hayes, 132.

Grinnell, Henry, visit to by Lady Franklin, 44; memorial to Congress, 45; equips the Advance and the Rescue, 49; fits out the Advance for Kane, 65; presentation of vase to Kane, 104; aid to Hall's first expedition and second expedition, 205.

Habersham, A. W., Lieutenant, on the loss of the Porpoise, 112.

Hall, C. F., early Arctic studies, 162; sails on his first expedition, 167; at Cyrus Field's Bay, 174; discovers Frobisher's relics, 182; returns to United States, 196; sails on second expedition, 206; at Marble Island, 209; captures a whale, 233; at Fort Hope, 235; first journey to King William Land, 244; to Igloolik, 250; to Cape Weyton, 252; to Fury and Hecla Strait, 256; reaches King William Land, 261; sails in the Polaris, 270; last sledge journey, 289; despatch to Secretary of Navy, 289; death, 297; character, 331; medal from Geographical Society of Paris, 333; tablet erected by Nares, 335.

Hancock, the steamer, 109.

Harber, G. B., Lieutenant, U. S. N., sent out for the bodies of DeLong and his comrades, 407; report to Secretary Chandler, 423; return to the United States, 427.

Hartstone, H. J., commands the relief ship for Dr. Kane, 87; naval record, 91; brings Kane to New York, 91.

Hayes, Isaac L., Dr., surgeon of the Advance, 68; explorations with Kane, 77; commands the expedition of 1880, 132; crosses Melville Bay, 136; winters at Port Foulke, 137; reaches Cape Lieber, 147; discussion on "the open Polar Sea," 149; on the Glaciers, 153; returns to the United States, 156; receives medals, 158.

Hazen, W. B., General, U. S. A., co-operates with International Polar Commission, 534; instructions to Greely, 538; to Ray, 552.

Hendrick, Hans, joins Kane, 68; journey with Hayes, 72; account of Sonntag's death, 140; joins the Polars, 275; his own narrative, 141.

Henrietta and Jeanette Islands discovered by DeLong, 395.

Henry, Joseph, Professor, aids the second Grinnell expedition, 65; endorses Arctic explorations, 526, 528, 534.

Herald Island visited by Kellett, 459; by Rodgers, 125; by DeLong, 379; by Hooper, 453; by Berry, 477.

Holsteinborg visited by DeHaven, 59; by Hall, 108; by McClintock, 109.

Hooper, C. L., Captain, Revenue Marine Steam Cutter, first cruise, 429.

Hudson, W. L., Lieutenant, commands the Peacock, 500; land seen by, 509.

Hunt, W., Secretary of Navy, convenes Relief Board for DeLong, 474; telegram to Melville, 413; to Harber, 408.

Hydrographic Office, United States, charts of the Arctic sea, 115.

Ice of the Arctic described by Hooper, 439; by Powell, 555.

Ice of the Antarctic described by Wilkes, 522.

Icebergs met by Kane, 62, 70; by Hayes, 134; by Hall, 172.

Irving, Lieutenant, R. N., grave discovered by Schwaka, 353.

Jeanette, the, purchased by Mr. Bennett, 364; brought round the Horn, 365; equipped at San Francisco, 372; officers' roll, 373; reaches Cape Serdze Kamen, 377; in the pack, 378; zigzag course northwest, 388; crushed, 398.

Juniata, the, sails for relief of Hall, 324.

Kane, E. K., Dr., surgeon of the first Grinnell expedition, 47; naval record, 48; surgeon to United States Embassy, China, 51; in Mexico, 52; joins DeHaven, 47; notes of
INDEX.

geographical discovery, 60; commands second Grinnell expedition, 68; in Rensselaer Harbor, 73; explores the Great Glacier, 76, 95; fails to reach Beechey Island, 81; rescued by Hartstene, 89; report to Secretary of Navy, 95; graphic sketches, 62, 100, 102; receives medals from Royal Geographical Society and Paris Geographical Society, 105; death, 105.

Kane, John P., Dr., describes the navigation of Melville Bay, 92.

Kennedy Channel, Kane's exploration, 87.

Kennedy, J. P., Secretary of the Navy, aids Kane, 67.

Kern, E. W., artist, 110.

Key-low-tik and Ken-toon performers, 217.

Kislingbury, F. F., Lieutenant, of Franklin Bay Expedition, 537, 541.

Knorr, E. R., assistant draughtsman on the Vincennes, 122; observations on the cruise, 129.

Kimmel, Mr., naturalist of the Florence, 538.

Kuro Siwo, the waning influence of, 367.

LADY FRANKLIN BAY, station at, 537.

Lesseps, M. Ferd., de, President Société de Géographie, address on presenting the medal to Schwalla, 361.

Littleton Island, visited by Kane, 70; by Hartstene, 94; by the Proteus, 541.

Lockwood, James B., Lieutenant of Franklin Bay expedition, 357, 541, 544.

Long, Thomas, first visits Wrangell Land, 400.

Lovell, W. J., Midshipman, U. S. N., attached to first Grinnell expedition, 47; to the relief ship Rescue, 81.

MAURY, M. P., assists first Grinnell expedition, 44; the second expedition, 65; endorses the object of Arctic expeditions, 525, 561.

McClintock, Sir Leopold, R. N., crossing the North water, 54.

Medals awarded to Kane, 105; to Hayes, 158; to Hall, 333; to Schwalla, 362.

Melville, G. W., Chief Engineer, naval record, 379; letter from St. Lawrence Bay, 376; boat journey to Herald Island, 380; to Henrietta Island, 396; rigs a windmill pump, 387; commands the whaleboat, 406; searches for DeLong, 413; for Lieutenant Chipp, 416; returns to United States, 418; receives a letter from General Tscherniaeff, 497.

Melville Bay, crossing of, by DeHaven, 54; by Kane, 70; by Hayes, 136; by McClintock, 136.

Meteorological Stations, under the International Commission, 531-535.

Miller, Senator, advocates first Grinnell expedition, 46.

Morton, William, reports an open Polar sea, 77.

Mount Wollaston and the Vigilant, search for, by Hooper, 432.

Muir, John, Professor, exploration of Herald Island, 454, 456.

Murdoch, W., passed Midshipman on the Advance, 48.

Museum, National, the, collections received by, 517, 527.

Musk ox, capture of, 264.

NAVES, Captain George, R. N., commends Hans, 69.

Naval Officers' Record of first Grinnell expedition of relief ships for Kane, 91; of the Vincennes, 111; of DeLong's expedition, 476; of Wilkes', 496.

Neptune, cruise of the, 545.

Nichol, W. L., Assistant Surgeon Vincennes, 111.

Nindemann and Noros sent forward by DeLong, 412.

North Water, the crossing of, 54, 138.

Northwest Passage, origin of the problem of, 21; attempts for by Cabot, Verrazani, Cartier, Davis, Hudson, and Baffin, 22; by Cook, 23; by the Argo and the Dillenage, 25, 26; by Franklin, 33; by the relief ships, 35.
576

INDEX.

OBSERVATORY, Astronomical, Kane's, 73.
Osborn, Admiral, R. N., commends DeHaven, 50; endorses Arctic exploration, 409.

PALMER'S LAND, 494.
Pavy, O., Dr., Assistant Surgeon of Station Lady Franklin Bay, 537, 541, 543.
Peabody, Mr., of London, contributes to second Grinnell expedition, 65.
Pendulum, Dr. E. Bessels', 306.
Penguins, 505.
Pennsylvania Historical Society, the Penn papers, 27.
Petropolski visited by the Vincennes, 116.
Phipps, Captain, voyage, 23.
Polaris, the, sails from New London, 270; reaches 82° 16', 280; drift of, 284; anchored, 286; attempts to go north, 312; carried from the floe, 316; abandoned, 327; sunken, 226.
Polar, open sea, the, advocated by Maury, 40; reported seen by Morton, 79; Kane's judgment of it, 98; Hayes' discussion, 149; Nares', 151.
Pole, the North, voyages for, 21, 22, 23, 24, 25, 26, 27, 34.
Porpoise, the brig, lost of, 112.
Potts, S. J., Jr., lost at sea, 112.
Preston, Secretary of Navy, instructions to DeHaven, 48.
Proteus, the voyage of, 1881, 538; and 1883, 548; crushed, 549.
Pröven visited by DeHaven, 56.

RAVENSCRAIG, the, rescues the Polaris party, 327.
Ray, P. H., Lieutenant, U. S. A., station at Point Barrow, 547, 552.
Raynor, G. W., visits Wrangell Land, 494.
Relly, W., Acting Lieutenant, lost at sea, 112.
Reindeer seen by Schwatka, 336.
Relief ship for Kane, the Release and the Arctic under Hartstene and Simms, 86, 88, 91.
Rensselaer Harbor, the Advance moored in, 71; visited by Hayes, 72.
Rescue, the, loaned by Grinnell to DeHaven, 47; wrecked, 174.

Resolutions by United States Congress for DeHaven's expedition, 44; for relief of Dr. Kane, 86.

Rewards by United States to natives at St. Lawrence Bay, 484; by the Czar to the Ispravniks and natives who assisted Melville, 427.
Riinggold, Cadwalader, commands the exploring expedition of 1883, 108; returns to United States on sick leave, 111.
Robeson, Geo., instructions to Hall, 271; Robeson Channel named by Hall, 280; examined, 288.
Rodgers, John, Lieutenant, exploration in the Arctic Seas, 106, 131; sails in the Hancock, 109; succeeds to the command of exploring expedition, 111; surveys North Pacific, 114; Northern cruise, 116; sails over the reported position of Plover Island, 123; approaches Wrangell Land, 128; returns to San Francisco, 129; report not published, 114, 131.
Rodgers, the cruise of, 473; burned, 482.
Roe, F. A., Commodore, Lieutenant on the Vincennes, and naval record, 111.
Ross, James, Captain, receives Wilkes' chart, 513; commendation of Wilkes, 516.
Rosse, Dr., surgeon of the Corwin, notes of optical illusions, 498.
Russell, J. H., Captain, Lieutenant on the Vincennes, and naval record, 111; boat landing at Glassenapp, 119; astronomical observations, 121.

ST. JOHN'S, Newfoundland, visited by DeHaven and Kane, 68.
INDEX.

St. Lawrence Island, visited by Rodgers, 119; by Hooper, 430; and by DeLong, 376.
Schoonmaker, C. M., Commander, brings the floe party to Washington, 323.
Schott, C. A., discusses Kane's observations, 74; Hayes', 137.
Schubert's death, 76.
Schuetze, Master, sent out for the bodies of DeLong and officers, 407.
Schwatka, F., Lieutenant, sails from New York, 347; crosses the Wager and Back river, 351; finds Hall's cairn, 352; finds Lieutenant Irving's remains, 353; explores King William Land, 354; sledge journey of, 356; return to United States, 360; receives the Roquette medal, 362.
Scientific corps of the North Polar expedition of 1871, of Wilkes' expedition, 498.
Scoresby, Captain, reports of open water in the Arctic, 30.
Sea, an open Polar, advocated by Maury, 49; by Kane, 68, 97; by Hayes, 149; denied by Richards, 151; by Nares, 152.
Seals, mode of capturing described by Hall, 194; United States revenue from Alaska, 560.
Secretary of the Navy Preston's instructions to DeHaven, 48.
" " " Kennedy's instructions to Kane, 68.
" " " Dobbin's instructions to Hartstene, 91.
" " " Tocey's report on the cruise of the Vincennes, 114.
" " " Thompson's instructions to DeLong, 369.
" " " Chandler convenes Relief Board, 569.
Semiavine Strait, 128.
Seward, Senator, advocates Grinnell expedition, 46.
Sherman, O. T., meteorologist of the Florence, 636.
Sherman, Secretary, instructions to Hooper, 429.
Shock's, Commodore, truss, 382.
Simms, C. C., Lieutenant, commands the Arctic; naval record, 91; visits Cape Alexander, 93.
Skin scrubbing by Sek-Keens, 220.
Smithsonian Institution, aid to Kane's expedition, 67; publication of Kane's results, 74; aid to Hayes' expedition, 133; publication of Dr. Hayes' results, 150.
Smith, Watson, Acting Master of the Advance, 91.
Société de Géografie awards medal to Kane, 105; to Hayes, 158; to Hall, 333; to Schwatka, 352; notes on meteorological stations, 532.
Sonntag, August, astronomer of Kane's expedition, 68; his observatory, 75; astronomer to Hayes' expedition, 133; death, 138; Hans' account of it, 140; his grave visited by Bessels and Bryan, 142.
Spoon, Franklin's, sent to Miss Cracroft, 349.
Stevens, H. K., Lieutenant, commands the Hancock, 111; recommends further surveys, 130.
Stimpson, Wm., naturalist, 110.
Stoney, Lieutenant, U. S. N., distributes rewards to the Tchuktchis, 454.
Stuart, J. H., Assistant Surgeon, lost at sea, 112.
Stuart, W. D., draughtsman, 110.
Tagliabue, N. Y., contributes instruments to Hayes' expedition, 133.
Taylor, Z., President, message to Congress, 43.
Tchuktchis described by officers of the Vincennes, 120; by Hovgaard, 120.
Tesuissak (or Tessuissak) visited by Hayes, 136.
Thompson, R. W., Secretary Navy, instructions to DeLong, 369.
Tigress, the cruise of, 325.
Too-koo-litoo joins Hall, 176; accompanies second expedition, 206; loses her babe, 246; sails on the Polaris, 270; notice of, 340.
INDEX.

Tyson, Geo. E., sails with Hall, 270; rescued by the Tigress, 323; commands the Florence, 535.

United States Centennial Arctic exhibit, 104.
Upernavik visited by DeHaven, 59; by Kane, 89; by Hayes, 135.

Van Wyck, W. W., lost at sea, 112.
Vincennes, the flagship of Commodore Ringgold, 108; Arctic cruise under Rodgers, 114; extracts from log book, 129.

Vreeland, B., Surgeon of the Rescue, 47.

Whalers, the pioneers of discovery, 494.

Wildes, Commander, U. S. N., of the Yantic, 548, 551.

Wilkes, C. F., Lieutenant, commands Antarctic expedition, 495; officers' record, 496; sails from Sydney, 501; discovers land, 508; receives medal from Royal Geographical Society, London, 514; his summary of the cruise, 510; volumes published by Congress, 521; notes on the ice, 522.

Williams and Haven aid Hall, 166.

Willis, Hon. B. A., letter from Professor Henry, 584.

Wrangel Land, seen by Wrangel, 120, 124; by Rodgers, 125; by Hooper, 436; drifted past by DeLong, 467; visited by Berry, 478.

Wright, C., botanist of the Antarctic expedition, 110.

Zane, A. V., Passed Assistant Engineer on the Rodgers, 477; accompanies Putnam, with Hunt and Castillo, 483.