

- Somers, Admiral Sir George, wrecked at Bermudas (1609), i., 273; his death there, 274.
- Sounding-machines, "Hydra" and Bailie, i., 60, 61; "Valve" sounding-lead, 62.
- Sounding on board the "Challenger," mode of, i., 66, 168.
- Soundings, temperature. (See Temperature.)
- Spatangus purpureus*, i., 271.
- Specific gravity of the water of the Atlantic; mode of determination on board the "Challenger," i., 55; ii., 303; Tables of Specific Gravities: Teneriffe to Sombbrero, i., 237; between St. Thomas, Bermudas, and Halifax, 378; Bermudas to Madeira, ii., 60; Madeira to Bahia, 119; Bahia to the Cape, 174; Falkland Islands to Portsmouth, 239.
- Spitzbergen Current, ii., 280.
- Sponges in the Atlantic, ii., 284, 293; Hexactinellidæ, *Euplectella*, i., 135, 141; *Hyalonema*, 141, 257; *Poliopogon amadou* (new), 171; Esperiadæ, 186; West Indian, 240; of Bermudas, 284, 306; *Leufroyella decora*, 374, 375.
- Springs, boiling, San Miguel, ii., 43.
- Stalactites and stalagmites, i., 305-311.
- Stalagmite ceilings and stalactite columns of caves in Bermudas, i., 301; great stalagmite from the Walsingham cave, 303.
- Stalked crinoids. (See Crinoids.)
- Stanley Harbor and Town, Falkland Islands, ii., 177, 178, 198, 194.
- Star-fishes, i., 240, 351; ii., 203, 205.
- Steam-pinnace, the "Challenger's," i., 70.
- Sterna fuliginosa*, "wide-awake," ii., 227.
- Sterna stolidæ*, "noddy," ii., 95.
- Sternoptychidæ, ii., 10.
- Stevenson, Thomas, C.E., mean thermometer for changes of temperature, i., 157, 162; table of its indications, 162.
- Stirling, Dr. William, D.Sc., M.B., his appointment as naturalist, i., 80; his resignation, 99.
- Stirling, Rev. Dr., Bishop of Falkland Islands, ii., 183.
- Stokes, William, killed by an accident to the dredge, i., 261.
- Stoltenhoff, Frederick and Gustav, their occupation of Inaccessible Island, ii., 150-162.
- "Stone rivers," Falkland Islands, ii., 212-215.
- "Stop-cock water-bottle," used in the expedition, i., 51-53, 178, 180.
- Strait of Magellan, ii., 176.
- Stylaster*, i., 240.
- Styliola*, i., 126.
- Submarine telegraphs, deep-sea soundings in connection with, i., 17.
- Sula fusca*, "booby," ii., 95.
- Sunrise in Brazil, ii., 124.
- Surface-currents, i., 335.
- Swamp vegetation, Bermudas, i., 314, 315.
- Syenite boulder raised with the dredge, i., 355.

## T.

- Tables of carbonic acid in water of the Atlantic, ii., 310, 327; of air and water temperature (see Temperature); of specific gravity (see Specific Gravity); of deep-sea fauna at different stations, 285-289; of marine animals at depths below 2000 fathoms, 328, 329; tables of temperature explained, 262.
- Taylor, Rev. W. F., his account of Tristan d'Acunha, ii., 136-138.
- Telegraphs, submarine, deep-sea soundings in connection with, i., 17.
- Temperature, air; May to October, 1873, i., 162; at Bermudas, 1855 to 1873, 328; tables of, in crossing and recrossing the Gulf-stream, 379.
- Temperature of the water of the Atlantic: *General conclusions*, ii., 257; *Diagrams*, constructed from serial soundings, i., 231, 342, 349; ii., 10, 19, 56, 130, 272, 277; showing the effect of a "continuous barrier," 277; *Curves* constructed from serial and bottom soundings, i., 227, 267, 347, 362, 366; ii., 54, 263. *Tables*: Portsmouth to Teneriffe, i., 160; Teneriffe to Sombbrero, 235; between St. Thomas, Bermudas, and Halifax, 376, 377; Bermudas to Madeira, ii., 58, 59; Madeira to Bahia, 116, 117, 118; Bahia to the Cape of Good Hope, 172, 173; Falkland Islands to Tristan d'Acunha, 234; Tristan d'Acunha to the Açores, 236; North and South Atlantic, 1876, 238.
- Temperature of the deep sea, as shown by the "Lightning" expedition, i., 21.
- Tern (Tristan d'Acunha Islands), ii., 162.
- Thalassidroma pelagica*, i., 192.
- Thermometers, registering, i., 21, 156, 225, 229; ii., 259, 304; instruments broken in deep sounding at Bermudas, i., 263.
- Thomson, Sir C. Wyville, LL.D., F.R.S., appointed director of the civilian scientific staff of the "Challenger," i., 26, 80, 98; new species named by him, 139, 143, 147, 171, 220, 258, 259, 260, 261, 350, 351, 352, 353, 354, 369, 370, 372, 373,