

- Silurian strata, foot-tracks in, 452.
 volcanic rocks, 553.
 Simpson, Mr., on ice-islands, 185.
Siphonia pyriformis, upper greensand, 249.
Siphonotreta unguiculata, Silurian, 444.
 Sivatherium, extinct ruminant, 182.
 Skipter Jokul, eruption of, 521.
 Skye, rocks of, 481, 580.
 basaltic columns in, 483.
 dikes in Isle of, 478.
 sandstone in, 36.
 Slates of Devon, cleavage of, 603.
 Slaty cleavage, 602.
 Slickensides, term defined, 621.
 Smith, Mr., of Jordan Hill, on pleistocene, 140.
 Snags, fossil, 375.
 Snakes' eggs, fossil at Tonna, near Gotha, 125.
 Solsonnais sands, 228.
 Solenhofen, lithographic stone of, 302.
 Solfatara, decomposition of rocks in the, 595.
 Sonoma, 525.
 lava at, 478.
 Sopwith, Mr. T., models by, 57.
 Sorby, Mr., on mechanical theory of cleavage, 608.
 Sortino, cave in valley of, 160.
 South Devon and Cornwall, old red of, 419.
 South Downs, view of, 274.
 Sowerby, Mr. G., cited, 169.
 Spaccesorno, inland cliffs at, 76.
 Spain, volcanoes in, 6, 531.
 Spalacotherium, Purbeck mammifer, 295, 457.
Spatangus (recent), 23; *S. radiatus*, 238.
 with *Serpula* attached, 23.
 Spezzia, gulf of, calcareous rocks in, 612.
Sphaerexochus mirus, Wenlock, 436.
Sphaerulites agariciformis, chalk, 253.
Sphenopteris orenata, 361; *S. gracilis*, 264.
Spirifer disjunctus, *S. Verneuilii*, 421; *S. glaber*, *S. trigonalis*, 406.
 *muconatus*, 424; *S. undulatus*, 352; *S. Walcottii*, 318.
Spirolina stenostoma, eocene, 297.
Spirorbis carbonarius, coal, 884.
 Spitzbergen, glaciers of, 142.
Spondylus spinosus, chalk, 247.
 Sponges in chalk, 249.
Spongilla of Lamarck, in tripoli, 25.
 spicula of, tripoli, 25.
 Springs, mineral. See Mineral springs, 626.
 Staffa, basaltic columns in, 483.
Stauria astriformis, Silurian, 403.
 Steno on classification of rocks, 91.
 Sternbergia, structure of, 368.
 Stigmaria in fossil forest, Nova Scotia, 377.
 Stigmaria and *Sigillaria*, 367.
 *ficoidea*, coal, 368.
 Stirling Castle, rock of, altered by dike, 481.
 Stockholm, post-pliocene beds near, 119.
 Stokes, Mr., on petrifaction, 43.
 Stonesfield, fossil mammalia, 810, 812.
 slate, 809.
 Storton Hill, footprints at, 837.
 Strata, term defined, 2.
 arrangement of, determined by fossils, 21, 22.
 consolidation of, 34.
 curved and vertical, 47, 59.
 elevation of, above the sea, 44.
 fossiliferous, tabular view of, 104.
 horizontality of, 15, 45.
 metamorphic origin of, 506.
 mineral composition of, 10.
 outcrop of, 58.
 tertiary classification of, 109.
 Stratification, forms of, 18, 10, 47.
 unconformable, 59.
 Strickland, Mr., on new red sandstone, 336.
 Strike, term explained, 53.
Stringocephalus Burtini, Devonian, 423.
 Stromboli, lava of, 574.
Strophomena depressa, 436; *S. grandis*, 440.
 Studer, M., on Swiss Alps, 614.
 Studer, M., on boulders of Jura, 140.
 Stutchbury, Mr., cited, 824, 855.
 Sub-Apennine strata, 110, 173.
 Subsidence in drift-period, 141.
Succinea amphibia, 29; *S. elongata*, 124.
 Suffolk crag, 105.
 Sullivan, Capt., chart of Falkland Islands, 88.
 Superga, near Turin, tertiaries of Hill of, 179.
 Superior, Lake, marl in, 80.
 Superposition of aqueous deposits, 90.
 Superposition of volcanic rocks, test of age, 326.
 Supracretaceous term explained, 103.
Sus scrofa, tooth of, 166.
 Sussex marble, 261.
 Swansea, coal-measures near, 859.
 stems of *Sigillaria* at, 373.
 Sweden, alum-schists of, 451.
 Swiss Jura, structure of, 55.
 Sydney coal-field, Cape Breton, 380.
 Syenite, 564.
 Syenitic granite, 564.
 Synclinal line, term defined, 48.
- TABLE MOUNTAIN**, strata horizontal in, 45.
 granite-veins in, 567.
 Table of fossiliferous strata, 104.
 Tail of homocercal and heterocercal fish, 358.
 Talcose gneiss, 590.
 granite, 564.
Tipirus Americanus (recent), tooth of, 166.
 Tartaret, Puy de, cone of, 548.
 Teeth of mammals, fossil and recent, 165, 166, 167, 219, 233, 311, 341.
Telpeton Elginense, old red, 412.
Tellina obliqua, pleistocene, 155.
Temnechinus excavatus, coralline crag, 172.
 Teneriffe, Peak of, 509, 511.
Tentaculites annulatus, Silurian, 439.
Terebellum convolutum, *T. fusiforme*, 213.
Terebratula (Atrypa) affinis, 431.
 *biplicata*, *T. carnea*, *T. Defranceti*, *T. octoplicata*, *T. plicatilis*, *T. pumilus*, 246.
 *digona*, 308; *T. fimbria*, 316; *T. hastata*, 406; *T. lyra*, 251.
 *navicula*, 481; *T. porrecta*, 428; *T. sella*, 259; *T. Wilsoni*, 438.
Teredina personata, fossil wood bored by, 24.
Teredo navalis boring wood, 24.
 Terra del Fuego, 145.
 *Fucus giganteus* in, 242.
 Tertiary, term explained, 109.
 deposits, 178, 189, 190.
 strata, tabular view of, 104.
 Testudo atlas, of Sewalki Hills, 182.
 Texas, chalk in, 255.
 Thames valley, freshwater deposits in, 152.
Thamnastraea, coral-ring, 303.
 Thanet sands described, 221.
 Thecodont saurians, 342, 355.
Thecodontosaurus, tooth of, 355.
Thecosmilia annularis, 303.
Thelodus, shagreen-scales of, 432.
 Thirria, M., on oolitic group in France, 329.
Thuja occidentalis, in stomach of mastodon, 144.
 Thurmann, M., cited, 55, 280, 308.
 Tilestones, 430.
 Tilgate Forest, remains in, 202.
 Till, term explained, 133.
 origin of, 134.
 Tin, veins of, in Cornwall, 620, 627.
 Tiverton, trap-porphry near, 555.
 Tongrian system of M. Dumont, 188.
 Touraine, salins of, 175.
 Trachyte, 466.
 of Hungary, 565.
 Trachytic rocks, older than basalt, 522.
 Transition, term explained, 91, 420.
 Trap, term explained, 400.
 dike in Cheshire, 557.
 globular structure of, 456.
 intrusion of, between strata, 452.