

- Reptiles, fossil eggs of, 125.
, fossil, of Nova Scotia coal, 401.
Reptilian bone, great oolite, 310.
 footprints in coal-strata, 399.
Relepora flustracea, 352.
Retinite, or pitchstone, 474.
 Rhine valley, loess of, 121.
Rhinoceros leptocephalus, tooth of, 166.
Rhynchonella spinosa, 315; *R. Wilsoni*, 433.
 Rigi, near Lucerne, conglomerate of, 170.
Rimula clathrata, great oolite, 303.
 Ripple-mark, formation of, 19.
Rissocia Chastellii, eocene, 103.
 River-channels, ancient, 395.
 River, excavation through lava by, 535.
 terraces, 85.
 Rock, term defined, 2.
 Rocks, four classes of, contemporaneous, 9.
 classification of, 90.
 Rocks, composed of fossil zoophytes and shells, 24.
 trappian, 92.
 Roderburg, extinct volcano of, 543.
 Rogers, Prof. H. D., on coal-field, United States, 839.
 cited, 393, 413, 427.
, on reptilian footprints in coal, 891.
, on Devonian rocks, U. S., 427.
, Prof. W. B., on oolitic coal-field, United States, 830, 839.
, on Devonian rocks, U. S., 427.
 Ronie, formations at, 175, 530.
 Römer, F., on chalk in Texas, 255.
Rosalina, chalk, 26.
 Rose, Prof. G., cited, 460, 557.
, on hornblende, 464.
 Ross-shire, denudation in, 67.
Rostellaria macroptera, eocene, 218.
 Rothlegedes, lower, or Permian, 356.
 Rubble, term explained, 81.
 Rupeimoude, Upper Eocene beds, 188.
 Russia, erratic blocks in, 129.
, fossil meteoric iron in, 151.
, Permian rocks in, 355.
- SAARBRUCK coal-field, reptiles found in, 897.
 St. Abb's Head, curved strata near, 49.
 St. Andrew's, trap-rocks in cliff near, 556, 557.
 St. Helena, basalt in, 489, 525.
 St. Helens, or Osborn series, I. of Wight, 102, 210.
 St. Lawrence, gulf of, inland beaches and cliffs, 78.
 St. Mihiel, France, inland cliffs near, 77.
 St. Paul, Island of, 508.
 St. Peter's Mount, Maestricht, fossils in, 237.
 sandpipes in, 83.
 Salisbury Crag, altered strata of, 491.
 Salt rock, origin of, 843.
, precipitation of, 843.
, at Northwich, 848.
, lakes of Asia, 344.
 Salter, Mr., on fossils of Caradoc sandstone, 489.
, on Caradoc beds, 489.
, on Silurian fish, 432.
, on Silurian rocks of Canada, 446.
 San Lorenzo, recent strata at, 120.
 Sandpipes near Maestricht, 83.
 near Norwich, 82.
, or sandgalls, term explained, 82.
 Sandstone, with cracks in Wealden, 203.
 Sandwich Islands, coral-reef in, 241.
, volcanoes of, 459, 508, 528, 540.
 Sangatte, near Calais, drift of, 288.
Sao hirsuta, metamorphoses of, 450.
 Saucats, near Bordeaux, salins of, 178.
 Saumane de Lla, 828.
, thecodont, 355.
Saurichthys apodus, tooth of, 380.
 Sauvage, M., on moraines, 147.
, on vertical conglomerates, 47.
 Savi, M., on Carrara marble, 612.
Saxicula rugosa, pleistocene, 180.
- Saxony, granite in, 553.
 Seacchi, M., on post-pliocene strata, 119.
Scaphites equalis, 245; *S. gigas*, 258.
 Scarborough, oolitic plants of, 314.
 Schist, hornblende and mica, 588, 589.
, argillaceous, 589.
, chlorite, 589.
Schizodus Schlotheimi, 350; *S. truncatus*, hinge, 350.
 Schorl-rock and schorly granite, 504.
 Scoresby on icebergs, 127.
 Scorie, 489.
 Scotland, carboniferous traps of, 556.
, northern drift in, 180.
, old red sandstone of, 414.
 Scrope, Mr., cited, 305, 542, 546, 548, 550, 553, 554.
, on globular structure of traps, 486.
, on Ponza Islands, 605.
, on trachyte, basalt, and tuff, 470, 522.
, on central France, 197.
 Sea-cliffs, inland, 71.
 Section of Wealden, 273.
, of white chalk from England to France, 233.
, of volcanic rocks, Auvergne, 547.
 Sedgwick, Prof., on brecciated limestone, 351.
, on Caradoc beds, 438.
, on concretionary magnesian limestone, 87.
, on Coniston grit, 439.
, on Devonian group, 419.
, on garnets in altered rock, 480.
, on granite, 580, 589.
, on Permian sandstones, 354.
, on joints and cleavage, 600, 602, 609.
, on mineral composition of granite, 569.
, on old red of Devon and Cornwall, 419.
, on structure of rocks, 600.
, on trap-rocks of Cumberland, 559.
 Segregation in mineral-veins, 619.
 Semipal, Infusoria in, 26.
Seraphs convolutum, Barton clay, 213.
 Serpentine, 474.
Serpula attached to *Gryphaea*, 92; to *Spatan-*
gus, 23.
 *carbonaria*, coal, 384.
Serpula and *Bryozoa*, on Encrinite, 807.
 Serpulite, on volcanic rocks, in Sicily, 157.
 Sewallik Hills, freshwater deposits, 182.
, miocene strata in, 182.
 Shale, carbonaceous, 318.
, defined, 11.
 Shales of coal near Dudley, 593.
 Sharks, teeth of, 215.
 Sharpe, Mr. D., on mollusca in Silurian strata, 446.
, on slaty cleavage, 600.
, on upper greensand, 250.
 Shells, fossil, *passim*.
, fossil, useful in classification, 114.
, recent, 28, 29, 30, 140, 144.
 Sheppoy, Isle of, fossil flora of, 210.
 Sheringham, mass of chalk in drift, 184.
 Shetland, granite of, 440, 563, 568.
, hornblende-schist of, 590.
 Shrewsbury, congl-deposit near, 384.
 Sicily, Flumio Sulso in, 228.
, inland cliffs in, 74.
, newer pliocene strata of, 155.
, terraces of denudation in, 75.
 Sidlaw Hills, trap of old red sandstone, 553.
 Siebengebirge, igneous rocks of, 540.
 Sienna, formations at, 174.
Sigillaria, 860, 868.
Sigillaria latigata, coal, 807.
 Siliceous limestone defined, 12.
 rocks defined, 11.
 Silliman, Prof., cited, 574.
 Silurian, name explained, 429.
 period, plutonic rocks of, 581.
 rocks, table of, 480.
 strata of deep-sea origin, 447.
 strata of United States, 444.
 strata, thickness of, 442.