

- Murchisonia gracilis*, Silurian, 446.
Marex abveolatus, red crag, 170.
 Muschelkalk, 335.
Myliobates Edwardsi, teeth of, Bracklesham, 215.
Mytilus septifer, Permian, 351.
- NAGELFLUH, or conglomerate of Alps, 179.
 Naples, post-pliocene formations near, 524.
, recent strata near, 117.
, rising of land at, 118.
Nassa granulata, red crag, 170.
Natica (recent), Spain of, 417.
 *clausa*, 130; *N. helicoides*, 155.
Nautilus centralis, *N. ciczac*, 218; *N. Dani-*
cus, 239; *N. plicatus*, 258; *N. truncatus*,
 319.
 Navarino, lithodomi found in cliff at, 73.
 Nebraska, U. S., upper eocene of, 206.
 Necker, M. L. A., cited, 563.
, on composition of cone of Somma, 526.
, on granite in Arran, 584.
, on granitic rocks, 571.
, on Swiss Alps, 614.
, terms granite "underlying," S.
 Nelson, Capt., drawing of Bermuda, 79.
, on chalk of Berinuda Island, 240.
 Neocomian, or lower cretaceous, 256.
 Neozole type of corals, 403.
 Neoptunia theory, 91.
Nerinea Goodhallii, *N. hieroglyphica*, 303.
Nerita conoidea, *N. Schemidelliana*, 228; *N.*
costulata, 308; *N. granulosa*, 30.
Neritina concava, 211; *N. globulus*, 30.
 Newcastle coal-field, great faults in, 64.
 Newcastle, fossil tree near, 311, 317.
 New Jersey, cretaceous strata of, 255.
, Mastodon giganteus in, 143.
 New red sandstone, distinction from old, 332.
, its subdivisions, 333.
 of United States, 346.
, trap of, 555.
 New York, Devonian strata of, 426.
, Silurian strata of, 444.
 New Zealand, absence of quadrupeds, 164.
 Niagara limestone, Silurian fossils of, 445.
, recent shells in valley of, 144.
Nipadites ellipticus, 216.
Nodosaria, chalk, 26.
 Noeggerathi, M., cited, 538.
Noeggerathia cuneifolia, 357.
 Nomenclature, changes of, 93.
 Norfolk, buried forest, 133, 136, 153.
, drift, 133.
 Normandy, chalk-cliffs and needles, 269.
 Northwich, beds of salt at, 343.
 Norwich crag, fluvio-marine, 154.
, sandpiles near, 82.
 Nova Scotia, coal-seams of Cape Breton, 312.
, fossil forest of coal in, 320.
Nucula Cobboldia, 155; *N. Deshayesiana*,
 183.
 Nummulites, whether found in upper eocene,
 189.
Nummulites exponens, 231; *N. lavigata*, 215;
N. Puschi, 230.
 Nummulitic formation, 229.
 Nyst, M., cited, 188.
- ONOLUS APOLLINIS, Russia, 444.
 Oenhausen, M. von, on Cornish granite veins,
 569.
 Ohio, Falls of, Devonian coral-reef of, 427.
 Old red sandstone, 411.
, in Forfarshire, 598.
, trap of, 538.
Oldhamia antiqua, *O. radiata*, 449.
Olenus minorurus, Cambrian, 448.
Oliva Dufrenoyi, Miocene, 178.
 Olot, extinct volcanoes near, 531.
Omphyma turbinatum, Wenlock, 485.
Onchus tannietriatus, Silurian, 432.
 Oolite, 291.
 and lias, origin of, 319.
- Oolite, inferior, fossils of, 314.
 in Franco, 293.
, plutonic rocks of, 579.
, term defined, 12.
, volcanic rocks of, 555.
 Oolitic group in Franco, 293, 302.
, United States, 330.
Ophioderma Egertoni, lias, 320.
 Ophite and ophiolite, 473.
Opossum, part of jaw of, 219.
 Orbigny, M. d', cited, 253.
, on fossils of nummulitic limestone, 233.
, on subdivisions of cretaceous series, 237.
, on Vienna basin foraminifera, 179.
 Organic remains, criterion of age of formation,
 97.
, test of age of volcanic rocks, 521.
 Ormerod, Mr., on trias of Cheshire, 343.
Orthia elegantula, 431; *O. grandis*, *O. trice-*
naria, *O. resperilio*, 440.
Orthoceras laterale, 408; *O. Ludense*, *O. ven-*
tricosum, 434.
 Orthoclase, or common felspar, 463.
 Osborne, or St. Helen's series, Isle of Wight,
 192, 210.
 Osnabruck, in Westphalia, tertiary strata of, 178.
Ostrea acuminata, 314; *O. carinata*, *O. co-*
lumba, *O. vesicularis*, 247; *O. distorta*, 294;
O. expansa, *O. deltoidea*, 301; *O. gregaria*,
 303; *O. Marshii*, 316.
Otodus obliquus, tooth of, 215.
 Overlying, term applied to volcanic rocks, 8.
 Owen, Dr. Dalo, on oldest fossiliferous rocks of
 Wisconsin, 453.
, Prof., cited, 161, 173, 262, 310, 312, 313, 338.
, on amphitherium, 310.
, on birds in New Zealand, 165.
, on bone-caves in England, 160.
, on footprints, 347.
, on fossils in Australia, 162.
, on fossil monkey, 218.
, on fossil quadrupeds, 163.
, on ichthyosaurus, 323.
, on reptile in coal, 397.
, on serpent of Bracklesham, 214.
, on snake of Sheppey, 217.
, on thecodont saurians, 303.
, on zeugiodon, 233.
 Oxford clay, 394.
 Oyster beds, 220.
- PACIFIC, coral-reefs of, 240.
Palaechinus gigas, 465.
Palaeoniscus, Permian, outline of, 353.
Palaeoniscus comptus, scale of, *P. elegans*,
 scale of, *P. glaphyrus*, scale of, 354.
 Palaeontology, term explained, 103.
Palaeophis typhaleus, vertebrae of, 214.
Palaeosaurus platyodon, tooth of, 355.
Palaeotherium magnum, outline of, 210.
 Palagonia, dikes at, 529.
 Palagonite tuff, 470.
 Palermo, caves near, 74.
 Palma, Isle of, map of, 495.
, structure of, 494-508.
Paludina (Auvergne), 201; *P. lenta*, 29, 193.
 *marginata*, *P. minuta*, 132.
 (Mayence), 190; *P. orbicularis*, 209.
 Pampas, extinct quadrupeds of, 163.
Paradoxides Bohemicus, Cambrian, 450.
Paramilla centralis, chalk, 403.
 Parallel roads, 86.
 Pareto, M., on Carrara marble, 612.
 Paris basin, 93.
Parva deceptiens of Forfarshire, 417.
 Parkinson, Mr., on crag, 110.
 Parrot, Dr. F., on salt-lakes of Asia, 344.
Patella rugosa, great oolite, 303.
Pear-Encrinite, Bradford-clay, 300.
 Pearlstone, volcanic rock, 474.
 Pebbles in chalk, 241.
Pecopteris lonchittra, coal, 361.
Pecten Beuverti, 246; *P. islandicus*, 180; *P.*
jacobus, 153.