

- Euphantenia, 482
 Euphoberia, 691, 701; anthrax, 703; armigera, 678*, 691; Brownii, 703
 Euphotide, 88§
 Euplectella, 432; speciosa, 57*, 482
 Euproöps Dame, 691
 Epterornis, 925
 Eurasia, 17, 21, 22, 32, 33, 51, 538; sea level at its center, 346
 Eureka district, 447, 469, 478, 484, 495, 516, 541, 580, 581, 592, 593, 659, 733; mine, 340; quartzite, 516; shale, 606
 — Mts., 733
 Europe (see also Eurasia), 22, 23 (mean height), 24, 26, 32, 34, 41 (trends), 51, 165, 234 (snow-line), 296 (volcanoes), 393, 395, 398, 402, 403, 405, 406, 407, 411, 760, 793 (warmed by the Gulf Stream), 913; American types in, 550, 573; Australian types in, 922
 —, Archaean in, 442, 456; Cambrian, 484; Carboniferous, 631, 674, 689, 691, 692, 699; contrast of Jurassic with American, 792; Lower Silurian, upturnings at the close, 533-535
Euryapteryx, 1014
Eurylepis, 679, 680, 692; tuberculata, 680*, 692
Eurynotus, 417
Eurypterus, 59, 420§, 496, 565, 623, 719, 721; Devonian, 604, 615, 623*, 629, 719 (culmination); Carboniferous, 676, 701, 710, 719; Lower Silurian, 496 (first), 521, 525, 719; Upper Silurian, 550, 571, 574; Onondaga, 556*, 557; Paleozoic, 420, 719, 723
Eurypterus, 557, 567, 615, 623, 722, 724; giganteus, 556; Mansfieldi, 676, 677*, 710; prominens, 550; remipes, 556*
Euryte, 84§, 205
Eusarcus, 557
Eusthenopteron, 619; Foordi, 618*
Eutaw beds (group), 815, 816, 819, 854; (Upper), 815, 823
Eutoptichus, 918
Everest (Mt.), 23
 Evergreen trees, 435
 Evolution. See also Life, progress of
 Evolution by Natural Selection, 1030, 1032
 — and cephalization, 489
 Excavation by water, 167§, 178
 Excrements, fossil. See Coprolites
Exmouth Isl., 749, 792
Exogens, 434§, 435
Exogyra, 160, 779, 834, 840, 856, 860, 877 (end); arletina, 835*, 837; Boussingaultii, 867; columba, 866; columbella, 854, 855; conica, 865; costata, 841*, 854, 855; Couloni, 865; flabellata, 836; levigata, 867; ponderosa, 834, 855; sinuata, 837, 864, 865; subplicata, 867; Texana, 817, 836; virginia, 780*
Exogyra arletina clays, 817
Exogyra ponderosa marls, 815, 824, 855
 Expansion and contraction, 259-265, 372, 381
 Exploits River channel, 461
 Exploring Isles, 150
 Extermination of species. See Life
Extracrinus Briareus, 778*, 790
 Facial suture, 421§
Fagus, 806, 922; ferruginea, 895*, 896
Fairweather, Mt., 25, 238
 Falkland Islands, 19, 155, 209, 627
 Faluns beds of Anjou, 926
 Famenian beds, 626, 627
 Fanning Islands, 38
 Faroe Islands, 938
Fasciolaria, 916, 922; buccinoides, 841*; rhomboidea, 917; scalarina, 917
 Fats (animal), 123, 124, 655, 656
 Faults, 107§, 108*, 109*, 110*, 111, 114*, 115*, 353; in the Great Basin, 365, 366*; Taconic, 527*; Appalachian, 354
Fauna antiqua Sivalensis, 936
Faunas. See Life
Favistella, 552; favosidea, 550;stellata, 510, 511*, 515
Favosites, 310, 547§, 552, 562, 567, 581, 585§, 597, 625, 640, 719; arbuseula, 601; Argus, 601; basalticus, 551, 591; Canadensis, 592; cervicornis, 562, 625; favosus, 550; fibrosus, 520, 522, 567, 568, 628; Goldfussi, 584*, 590; Gothlandiens, 550, 551, 552, 567, 568, 569, 591; Hamiltoniae, 601; Helderbergiae, 560, 562; hemisphaericus, 592; Ningarensis, 547*, 550; placentula, 601; polymorphus, 569; reticulatus, 628; turbinatus, 590; venustus, 550
Faxe chalk, 866
Fayalite, 67§, 84, 888
 Feature-lines, system in courses of, 85
Feldspar, 64*§, 129
Feldspathic rocks, 80, 81, 82; veins, 331, 382, 386
Fells, 919, 927, 1001; atrox, 1000; leo, 1004; pardoides, 927; spelaea, 1004, 1006, 1009
Felsitic, 88
Felstones, 517
Felsyté, 82, 84§; porphyry, 468, 628
Fenestella, 545, 546*, 551, 590; cel-sipora, 579; prisca, 546*, 550
 Fermentation, 137
Fernandian, 446
Fernando de Noronha, phonolyte peak, 263*
Fernando Po, 297
 Ferns, 53, 484, 496; ash of, 74, 75, 663; Silurian, 564, 565; Devonian, 583*, 595*; Subcarboniferous, 639, 645; Carboniferous, 654, 657, 666, 667, 670*, 671*, 676, 677, 682, 690; Permian, 684, 685, 704; Triassic, 740, 749*, 750, 770
Ferriferous limestone, 664, 792
Ferruginous clay, 81§; rocks, 78§; sandstone, 80
Fibrolite, 65§, 66, 83
Fibrolitic rocks, 83
Fichtelgebirge, 563, 627
Ficophyllum, 831
Ficus, 831, 840, 916; auriculata, 839; lanceolata, 839; occidentalis, 839; planicostata, 839; spectabilis, 839; tiliifolia, 839; Virginiana, 832*
 Fig, 812, 859, 921
 Fiji Islands, 145, 148, 150*, 297
Flin-spines, 416*§.
 Findlay, Ohio, 538; oil-region, 188, 206, 522-523; yield of, 528
 Finland, Archaean in, 455, 456; Lower Silurian, 521
Finsternarhorn, 236
Flords, 946-949 (Glacial)
Floryte, 82§
Fire clay, 650
Fire-Hole, 305, 307
Firn, 288§
 Fish, primitive, related to the Lam-prey, 1031
Fish Creek Mts., 495, 738
Fish-oil in shales, 655, 656
Fish-scales, composition of, 78
Fisher Island, 822
 Fishes, 52, 55, 56, 59, 60, 141, 146, 156, 158, 176, 409*, 414, 415-418, 564, 681, 789, 797, 981; fossil, in oil-yielding coal-beds, 124; reign of, 411, 460; earliest known, 509; culmination of, 869; first Teleosts, 738
Flabellaria, 921; eocenica, 889
Flabellina rugosa, 432*, 860*
Flagellates, 419, 431
Flagging-stone, 92§, 480
Flaming Gorge group, 747
Flamingoes, 928
Flammenmergel, 865
Flat-pebble conglomerate, 604, 630
Flathead River, 240
Flexure-faults, 109*, 351
Flexures, 99, 101*, 102*, 103*, 104*, 105*, 106*; variations in, from pressure, 309; in the Alps and Juras, 367, 368
 —, Appalachian, 354, 355*, 356*, 649*, 650*; Taconic, 527*; Wasatch, 361, 369
Flies, 419, 794
Flint, 63§, 97, 859§; implements, 148, 1008
Flocculation, 170
Flood-grounds of rivers, 181§, 182, 188, 191, 193-194, 943. See also Shore-platforms; Terraces
Flora. See Plants
 Florida, 22, 23 (height), 40 (trend), 153, 210, 218, 265, 323, 483, 828; coral reefs, 145, 158, 218
 —, Tertiary in, 881*, 884, 887, 890, 891, 892, 916, 934 (elevation)
 — Banks, 168
 — seas, Nullipores in, 147
 — Strait, 44, 45, 229, 280, 256
Floridian epoch and beds, 884, 891, 900*, 917