

- Hornblende schist, 85§  
 Hornblendyte, 88§, 325, 582  
 Hornstone, 82, 540, 579§, 580, 584, 646, 859; in Corniferous, with Protophytes, 582, 583\*  
 Horse, 54, 55, 907, 908, 911, 912, 914\*, 927  
 — type, evolution of, 912, 919\*, 920, 931  
 Horse in a vein, 830§  
 Horse-shoe crab, 420  
 Horse-tail. See Equiseta  
 Horsetown beds, 815, 818, 820, 881, 887  
 Horton series, 639  
 Hosselkus limestone, 757  
 Hot springs, 121, 135, 187, 152, 265, 277, 805, 806, 813, 820, 828, 848; analyses of waters, 121; life of, 60, 152, 808, 454; superficial vein-making at, 384  
 Housatonic River, 227\*, 825  
 House Range, Utah, 494  
 Hualalai Mt., 268\*, 269  
 Huamampampa sandstone, 628  
 Hudson Bay, 29, 40, 442, 541, 552, 888, 947, 948, 949  
 Hudson-Champlain trough, 587, 572  
 Hudson epoch, 510  
 — River, 212, 216, 528, 529\*, 580, 587, 540, 541, 558, 579, 628, 784, 748, 744, 745; submarine channel, 18\*, 745, 949; valley, 357, 552, 558, 559, 579, 605, 982  
 Huersano group, 893  
 Human bones, analysis of, 78  
 Humboldt Glacier, 241; Ranges, 865, 783, 811, 812, 945; region, 746, 757, 760  
 Humite, 67§  
 Humming birds, 54, 55  
 Humus acids, 119, 122, 124§, 125, 128, 129, 139  
 Hunan, 696  
 Hungary, Archaean in, 455; Upper Silurian, 573; Tertiary, 988  
 Hung-tse Lake, 198  
 Huron, Lake, 200, 201\*, 445, 449, 452, 493, 533, 540, 542, 552, 558, 572, 592, 685, 947  
 Huron Cupiferous Formation, 445  
 — River, 947  
 — shale, 606  
 Huronia, 549; Bigsbyt, 551; vertebralis, 551  
 Huronian, 407, 445, 446, 447, 448, 449, 450, 451, 453, 454, 458, 466, 468, 488  
 Hurricane fault, 363\*, 747  
 Hyena, 927; crocuta, 1004; spelaea, 1004, 1006, 1009  
 Hyenaretos, 927  
 Hyenocyon, 918  
 Hyenodictis, 925  
 Hyenodon, 918, 926; dasyuroides, 924; leptorhynchus, 926  
 Hyalina arborea, 966  
 Hyalomictite, 88§  
 Hyattella congesta, 546\*, 550  
 Hyboerinus, 514  
 Hybodonts, 415§, 416\*, 643, 644\*, 647, 772  
 Hyodus, 772 (first), 788; minor, 416\*, 772; plicatilis, 416\*, 772, 774  
 Hydnoceras, 646  
 Hydra, 429\*, 430  
 Hydration, 128  
 Hydraulic cement, 79§, 80, 555; limestone, 79§, 555, 592  
 Hydrocarbon, 62, 74, 124  
 Hydrocephalus, 482  
 Hydrochloric acid, 68, 278; from volcanoes, 278, 294  
 Hydrogen, 61, 62; from volcanoes, 278, 287, 293, 294  
 — sulphide, 119, 124, 125, 523, 554  
 Hydroids, 140, 419, 430§, 547\*, 560  
 Hydromica, 65§, 83, 318; granite, 82; quartzite, 82; schist, 80, 82, 84§  
 Hydrotalcite, 453  
 Hydrozoans, 140, 418, 419, 429\*, 430§, 431  
 Hyena, 54  
 Hylaeosaurus Oweni, 863  
 Hylerpeton, 682  
 Hylonomus, 682, 706  
 Hymenocarids, Upper Cambrian, 488  
 Hymenocaris vermicauda, 481\*  
 Hymenophyllites, 645, 689; Gersdorff, 622; Hildrethi, 670\*, 689; obtusilobus, 622; spinosus, 689  
 Hymenopters, 419, 679, 788, 794, 900 (number of Florissant)  
 Hyodectes, 925  
 Hyolithellus, 471, 472; micans, 472\*  
 Hyolithes, 447, 471, 478, 481, 482, 514, 562, 599, 621; Acadicus, 475\*; Americanus, 471, 472\*; Danianus, 475\*; gregarius, 478\*; impar, 472\*; levigatus, 482; ligea, 590; princeps, 472\*  
 Hyomeryx, 918  
 Hyopotamus, 918; bovinus, 926  
 Hyopsodus, 918  
 Hyperodapedon, 772  
 Hypersthene, 67§, 86, 87, 88  
 Hypertragulus, 918  
 Hypertyte, 87§  
 Hypisodus, 918  
 Hypnum, 154  
 Hypogele work, 118§, 345-396  
 Hypogene rocks, 311§  
 Hyposaurus Rogersi, 848; Webbil, 848  
 Hypostome, 421§  
 Hypsilophodon Foxi, 868  
 Hyrachus, 907  
 Hyrachyus, 918, 928  
 Hyracodon, 910, 918; Nebrascensis, 910\*  
 Hyracops, 917  
 Hyracotherium, 918\*, 918, 923, 925  
 Hyrax, 54, 55  
 Hystricops, 919  
 Hystrix, 927  
 Ibis, 928  
 Ice (see also Glaciers; Water, freezing), 281, 282; glacier, 243, 846; plasticity, 243, 244, 245  
 Ice, effects on lakes, rivers, and sea-coasts, 282; fractures from torsion, 371, 372  
 Iceberg theory of the drift, 942  
 Icebergs, 241, 251-252; transportation by, 217, 230, 252; transported by the Labrador current, 229, 230  
 Iceland, 19, 48, 256, 286, 297; geysers, 82, 305, 307; Sequoia of, 989; volcanoes of, 297  
 Ichthyocerinus hevis, 547\*, 550  
 Ichthyodectes, 862  
 Ichthyopterygians, 760  
 Ichthyornis dispar, 851\*; vultur, 851\*, 852  
 Ichthyosarcolithus anguis, 886; crassiflora, 886; planatus, 886  
 Ichthyosaurs, 792, 797; Jurassic, 760, 761, 790; number of British, 784; Triassic, 774  
 Ichthyosaurus, 749, 773, 790; communis, 784\*; Nordenskiöldi, 792; polaris, 792  
 Icla shales, 628  
 Ictops, 918  
 Idaho, 28 (height); Cambrian in, 477; Calciferous, 501; Subcarboniferous, 639, 647; Triassic, 746, 747, 757; Jurassic, 747, 760; Tertiary, 938  
 Idocrase, 66§, 813  
 Idonearea vulgaris, 854  
 Igalko, Flirth of, 350  
 Igneous action and its results, 265; exterior agencies, 265; volcanoes, 267; non-volcanic eruptions, 297; thermal waters, geysers, 305  
 — ejections and intrusions, 89, 258, 364, 382, 388, 658, 811; great in the later part of geological time, 392, 441; surficial, 299, 300\*; veins made by, 388-343  
 — fusion, source of, 804  
 — phenomena due to exterior agencies, 265, 266  
 — rocks, 67, 76§, 80, 272-274  
 — — and metamorphic, relations of, 326-327  
 Iguana, 863  
 Iguanavus teres, 849  
 Iguanodon, 786, 828, 845, 856, 863, 865; Bernissartensis, 863\*; Mantelli, 863\*  
 Ilex, 854; cassine, 74, 75  
 Ilfracombe group, 625  
 Illenus, 500, 502, 508, 520, 521, 546, 551, 568; Areturus, 503; Bayfieldi, 503; Bowmani, 520; crassicauda, 515; Davisi, 519\*; globosus, 503; Ioxus, 549, 551; Taurus, 515; Thomsoni, 567  
 Illawarra, 261\*  
 Illicium, 896  
 Illinois, mean height of, 23; uplifts in, 732; lead mines, 342, 522  
 Illinois River, 948  
 Ilmen Mts., 85  
 Ilmenite, 70§, 87  
 Ilyanassa obsoleta, 994  
 Ilyodes, 691  
 India, 32, 34, 160, 299, 346, 406; united with S. Africa, 871, 873, 893