

## **BioDDC in the Virtual Library of Biology: an introduction**

### ***What is BioDDC?***

BioDDC is a system for the subject indexing of biological publications (books, articles, internet resources, etc.). By assigning BioDCC numbers, individual publications can be allocated to the various sub-areas and topics of biology. By this means, targeted thematic researches are made possible, i.e. the finding of publications dealing with a particular sub-area or topic (thematic browsing). In addition, with the inclusion of content-relevant bilingual keywords the probability of finding publications via keyword-based retrieval is increased.

The system is based on the Dewey Decimal Classification (DDC; Copyright belongs to OCLC – Online Computer Library Center, Dublin, Ohio).

### ***The structure of the system***

BioDCC is a so-called classification system. The whole of biology is progressively divided into sub-areas. The system constitutes a tree structure (Topic tree). The individual sub-areas are each characterised by numbers (notations) and names (captions), for example 572 = Biochemistry.

The first step divides biology into three areas:

- 570 = Biology (not especially botanical or zoological topics),
- 580 = Plants, and
- 590 = Animals.

In the subsequent steps smaller divisions are made, e.g. 570 includes, amongst other things, 572 = Biochemistry and 577 = Ecology. 577.3 = Forest ecology and 577.7 = Marine ecology belong, for example, to the topic 577. The longer a number, the more specialised the topic described. Altogether, about 400 biological categories are in use. A general overview exists both as hierarchic tables, and alphabetised term indexes (see appendix).

In hit lists and catalogues in vifabio the numbers are not shown but only the corresponding verbal caption. The browsing function of the Internet Guide enables browsing in the BioDCC tree structure under "subject" and "spatial coverage".

Multiple numbers are assigned for publications that cover multiple sub-areas. In addition to the biological topic numbers, geographical numbers may also be assigned that, if necessary, describe the reference area of a publication. By this method, publications are often found through different paths.

### ***Special features of the structure***

The most important sub-headings of 570 = Biology are the sections physiology, biochemistry, genetics, evolution, and ecology; 579 = Microorganisms, fungi, algae are also found here.

Botanical topics can be filed under 580 = Plants (if they concern the plant as a complete entity) as well as in the various sub-headings of 570 (e.g. 575 = Specific parts of and physiological systems in plants, and there, for example, 575.4 = Stems). The same applies to zoological topics in 590 and 570.

Resources concerning taxonomically defined groups of organisms (e.g. bacteria, ungulates, gymnosperms, Rosidae, ...) are to be found in the Internet Guide under the category "Natural history of specific kinds of organisms".

Sub-areas and topics that are strongly application oriented or include aspects not related to natural history are classified with numbers from areas other than 570/580/590, often in combination with additional numbers from 570/580/590:

- Greenhouse effect (under 363.7 = Environmental problems), or
- Genetically manipulated, useful plants (under 660.6 = Biotechnology).

### ***Further information***

It is anticipated that the edited Version 2.0 of BioDDC will be available in 2009.

If you need help with special searches or wish to have further information about BioDCC, please ask us ([vifabio@ub.uni-frankfurt.de](mailto:vifabio@ub.uni-frankfurt.de))!

### ***Appendix:***

Hierarchic table of subject numbers in BioDDC (Version 1.8)

Hierarchic table of geographical keys for BioDDC (Version 1.8)

Alphabetical index of subject numbers in BioDDC

Alphabetical index of geographical keys for BioDDC

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DDC numbers / captions	Remarks
<b>570 Life sciences; biology</b>	
570.1 Philosophy and theory	class here methodology
570.11 Systems	class here models (simulation); incl. computer modelling, systems biology
570.12 Classification	class taxonomic classification in 578.01
570.14 Language and communication	class here terminology
570.15 Scientific principles	incl. biometrics, biostatistics
570.2 Miscellany	incl.: illustrations; biology as a profession or hobby; directories of persons and organizations
570.28 Auxilliary techniques and procedures; apparatus, equipment, material	class here data processing and computer applications in biology, bioinformatics
570.3 Dictionaries, encyclopedias, concordances	
570.5 Serial publications	
570.6 Organizations and management	
570.7 Education, research, related topics	
570.71 Education	
570.72 Research; statistical methods	
570.74 Museums, collections, exhibits	
570.75 Museum activities and services, Collecting	
570.9 Historical, geographic, persons treatment	for geographic treatments [of biology] use geographic key: for geographic treatments of organisms, see 578.09
570.92 Biologists	incl. biography
<b>&gt;&gt;&gt;&gt; 571 - 575 Internal biological processes and structures &lt;&lt;&lt;&lt;&lt;</b>	
<b>&gt;&gt;&gt;&gt; 571 - 572 General internal processes common to all organisms &lt;&lt;&lt;&lt;&lt;</b>	
<b>571 Physiology &amp; related subjects</b>	
571.1 Physiology of Animals	for specific physiological systems in animals, see 573
571.2 Physiology of Plants and microorganisms	for specific parts of and physiological systems in plants, see 575
571.3 Anatomy and morphology	
571.31 Anatomy and morphology of animals	
571.32 Anatomy and morphology of plants and microorganisms	
571.4 Biophysics	incl. biodynamics, radiobiology
571.41 Biophysics in animals	
571.42 Biophysics in plants	
571.5 Tissue biology and regional physiology	class here histology; for tissues of specific parts or of physiological systems, see 573 or 575
571.51 Tissue biology and regional physiology in animals	
571.52 Tissue biology and regional physiology in plants	
571.6 Cell biology	class here cell physiology, cytology; incl. membranes, ion transport, mitochondria, ribosomes, plastids
571.61 Cell biology in animals	
571.62 Cell biology in plants and microorganisms	
571.7 Biological control and secretions	"Biological control" as control of an organism's own physiological processes (for biological control of pests see 632); incl. biorhythms, physiological balance, hormones in general
571.8 Reproduction, development, growth	incl. developmental biology, life cycle, embryology, metamorphosis, sex differentiation, pollen, sperm, spores, mitosis, meiosis
571.81 Reproduction, development, growth in animals	class here only comprehensive works on Reproduction, development, growth in animals; for reproduction, sexual reproduction in animals, see 573.6
571.82 Reproduction, development, growth in plants and microorganisms	class here only comprehensive works on Reproduction, development, growth in animals; for reproduction, sexual reproduction in plants, see 575.6
571.9 Diseases, Pathology	incl. pathogenicity, death, toxicology, immunity, allergies; incl. ecotoxicology
<b>572 Biochemistry</b>	
572.1 Biochemistry in animals	
572.2 Biochemistry in plants	
572.3 General topics of biochemistry	incl. molecular structure, sequences of polymers and other component units of large molecules, analytical biochemistry, biochemical evolution, nutritional requirements
572.4 Metabolism	class here structure-activity relationships; for metabolism of a specific chemical, see the chemical in 572.5-572.8; incl. bioluminescence, biosynthesis (anabolism), photosynthesis, chlorophylls, cell respiration, adenosine triphosphate, catabolism, fermentation
<b>&gt;&gt;&gt;&gt; 572.5 - 572.8 Specific biochemicals and biochemical genetics &lt;&lt;&lt;&lt;&lt;</b>	
572.5 Miscellaneous chemicals	class comprehensive works in 572 ... not provided for elsewhere; incl. oxygen, nitrogen, alkaloids, phosphorus, carbohydrates, lipids, vitamins, pigments, minerals
572.6 Proteins	incl. amino acids, globulins, histones, collagen; for enzymes, see 572.7; for prions, see 579.2
572.7 Enzymes	class here coenzymes, cofactors; incl. isomerases, ligases, catalases, dehydrogenases, ...
572.8 Biochemical genetics	class here cytogenetics, molecular biology, molecular genetics ... nucleic acids: for genetics, see 576.5; for genetic engineering in agriculture see 630
572.81 Biochemical genetics in animals	see rules under 572.8; for genetics of animals, see 591.35
572.82 Biochemical genetics in plants and microorganisms	see rules under 572.8; for plant genetics, see 581.35
572.83 General topics in biochemical genetics	incl. molecular evolution, evolutionary genetics
572.84 Metabolism in biochemical genetics	class here nucleic acid hybridization, nucleic acid-protein interactions, comprehensive works on nucleoproteins
572.85 Nucleotides	class here nucleosides; for nucleotide sequence, see 572.86
572.86 DNA (Desoxyribonucleic acid)	class here chromosomal DNA, codons, genes, genomes; incl. genetic code, nucleotide sequence, gene expression, plasmids; class DNA as a component of chromosomes in 571.87
572.87 Chromosomes	incl. chromatin, nucleosomes, genetic recombination, aneuploidy
572.88 RNA (Ribonucleic acid)	incl. transfer RNA

<b>573 Specific physiological systems in animals, regional histology and physiology</b>	
573.1 Circulatory system	cardiovascular system; incl. blood, heart, lymph
573.2 Respiratory system	incl. lungs
573.3 Digestive system	incl. mouth, teeth, stomach, intestine
573.4 Endocrine and excretory systems	incl. animal hormones, glands
573.5 Integument	
573.6 Reproductive system	incl. eggs
573.7 Musculoskeletal system	incl. bones
573.8 Nervous and sensory system	class here neurobiology; incl. nerves, brain, eyes, ears
<b>575 Specific parts of and physiological systems in plants</b>	
575.4 Stems	incl. bark, wood; incl. vegetative reproduction
575.5 Roots and leaves	
575.6 Reproductive organs, flowers	incl. fruits, seeds
575.7 Circulation, food storage, excretion	
575.8 Transpiration	
<b>&gt;&gt;&gt;&gt; 576 - 578 General and external biological phenomena &lt;&lt;&lt;&lt;&lt;</b>	class comprehensive works in 578
<b>576 Genetics &amp; evolution</b>	
576.5 Genetics	class here heredity; for plant genetics, see 581.35; for genetics of animals, see 591.35
576.52 Laws of genetics	class here Mendel's laws
576.53 Genetic makeup	class here genotypes, phenotypes
576.54 Variation	class here factors affecting heredity and variation; incl. mutagens, breeding patterns, mutation
576.58 Population genetics	incl. gene pools; class comprehensive works on population biology in 577.8
576.8 Evolution	for evolution of plants, see 581.38; for evolution of animals, see 591.39; class creationism in 231
576.801 Philosophy and theory of evolution	do not use for theories; class in 576.82
576.82 Theories of evolution	incl. Darwinism, natural selection, Lamarckian theories
576.83 Origin of life	incl. spontaneous generation, conditions needed for life to begin; incl. extraterrestrial life, astrobiology
576.84 Evolutionary cycles	class here extinction, radiation
576.85 Factors affecting evolution	incl. symbiosis as factor in evolution
576.86 Speciation	
576.87 Coevolution	class symbiosis as a factor affecting evolution in 576.85
576.88 Phylogeny	
<b>577 Ecology</b>	for plant ecology, see 581.7; for animal ecology, see 591.7
577.1 Specific ecosystem processes	incl. biogeochemical cycles, productivity, food chains, ecological succession, biological invasions
577.2 Specific factors affecting ecology	incl. autecology, biometeorology (bioclimatology), fire ecology; incl. bioindication
577.27 Effects of humans on ecology	incl. pollution ecology, acidification, pollution by gases contributing to greenhouse effect
<b>&gt;&gt;&gt;&gt; 577.3 - 577.6 Ecology of specific nonmarine environments &lt;&lt;&lt;&lt;&lt;</b>	class terrestrial ecology, comprehensive works on ecology on 577; class comprehensive works on biology of specific environments in 578.7; class plant associations characteristic of a specific environment with the environment in 577.3-577.7 [cf. 577.82]
577.3 Forest ecology	incl. Taiga ecology, shrubland ecology, forest plant associations
577.34 Rain forest ecology	incl. rainforest plant associations
577.4 Grassland ecology	incl. grassland plant associations, prairie ecology
577.5 Ecology of miscellaneous environments	
577.51 Coastal ecology	incl. coastal plant associations; "coast" understood in a broader sense, for coastal wetlands see 577.69
577.52 Island ecology	
577.53 Mountain ecology	incl. mountain plant associations
577.54 Desert ecology	incl. desert plant associations
577.56 Urban ecology	incl. urban plant associations
577.57 Soil ecology	
577.58 Ecology of hostile land environments	incl. sand dune ecology, cave ecology, tundra ecology, glacier ecology
577.6 Aquatic ecology, Freshwater ecology	incl. aquatic plant associations, biological limnology
577.63 Lake and pond ecology	
577.64 River and stream ecology	
577.66 Floodplain ecology	
577.68 Wetland ecology	incl. wetland plant associations, bogs, (wet) moor ecology
577.69 Saltwater wetland and seashore ecology	class here ecology of coastal wetlands, salt and tide marshes, mangrove swamp ecology
577.7 Marine ecology	incl. estuarine ecology, reef ecology; for coastal ecology, see 577.51 and 577.69
577.8 Synecology and population biology	incl. ecological communities, ecological niches, competition, symbiosis, parasitism
<b>578 Natural history of organisms and related subjects</b>	compare "508 Natural history"
578.01 Philosophy and theory in natural history	incl. systematics, taxonomy, taxonomic nomenclature, cladistic analysis, species
578.02 Miscellany	incl. auxiliary techniques (microscopy etc.)
578.03 Dictionaries, encyclopedias, concordances	
578.05 Serial publications	
578.06 Organizations and management	
578.07 Education, research, related topics	
578.073 Collections and exhibits of living organisms	
578.074 Museums, collections, exhibits	
578.075 Museum activities and services, Collecting	
578.09 Historical, geographic, persons treatment (incl. biogeography)	incl. biogeography; incl. Natural history of Extraterrestrial worlds
578.4 Adaptation	incl. temperature adaptation, phenology, camouflage
578.6 Miscellaneous nontaxonomic kinds of organisms	class here economic biology
578.62 Nonnative species	class here nonindigenous species, alien species, exotic species, invasive species; for extraterrestrial life see 576.83
578.63 Beneficial organisms	
578.65 Harmful organisms	
578.68 Rare and endangered species	
<b>578.7 Organisms characteristic of specific kinds of environments</b>	
578.73 Forest biology	for forest ecology, see 577.3
578.74 Grassland biology	for grassland ecology, see 577.4
578.75 Biology of miscellaneous environments	compare 577.5 for list of miscellaneous environments
578.76 Aquatic biology	for aquatic ecology, see 577.6
578.77 Marine biology	for marine ecology, see 577.7

>>>> 579 - 590 Natural history of specific kinds of organisms <<<<<	class comprehensive works on biology in 570; class comprehensive works on natural history of organisms in 578
<b>579 Microorganisms, fungi &amp; algae</b>	class here thallophytes ..., microbiology, Protista, protophytes, ...
579.1 Specific topics in natural history of microorganisms, fungi, algae	class here: genetics, evolution, and ecology of microorganisms, fungi, algae
579.2 Viruses and subviral organisms	class here virology; incl. Retroviridae, prions
579.3 Prokaryotes (Bacteria)	incl. Cyanobacteria (blue-green algae)
579.4 Protozoa	
579.5 Fungi, Eumycophyta (True fungi)	class here mycology; incl. slime molds (Myxomycotina), molds, mildew, yeasts, Fungi Imperfecti, ascomycetes, basidiomycetes (but: for Agaricales see 579.6)
579.6 Mushrooms	incl. Agaricales, toadstools; for mushrooms of a specific order other than Agaricales, see the order in 579.5
579.7 Lichens	
579.8 Algae	class here algology, phycology; incl. diatoms, seaweeds
>>>> 580 - 590 Plants and animals <<<<<	class comprehensive works on biology of plants and animals in 570; class comprehensive works on natural history of plants and animals in 578

<b>580 Plants (Botany)</b>	class here vascular plants
580.1 Philosophy and theory in botany	incl. taxonomical nomenclature
580.11 Systems in botany	class here models (simulation) in botany; incl. computer modelling
580.12 Classification in botany	incl. botanical systematics, taxonomy
580.2 Miscellany	
580.22 Illustrations, models, miniatures	incl. vegetation maps
580.28 Auxiliary techniques and procedures; apparatus, equipment, material	incl. microscopy
580.3 Dictionaries, encyclopedias, concordances	incl. botanical gazetteers
580.5 Serial publications	
580.6 Organizations and management	
580.7 Education, research, related topics	
580.71 Education	
580.72 Research; statistical methods	incl. vegetation surveys
580.73 Botanical gardens	
580.74 Museums, collections, exhibits	incl. herbaria
580.75 Museum activities and services; Collecting	
580.9 Historical, geographic, persons treatment	incl. treatments of botany by specific continents, countries, localities; class treatments of plants by specific continents, countries, localities in 581.9
580.92 Botanists	incl. biography
<b>581 Specific topics in natural history of plants</b>	class plant physiology in 571.2, anatomy and morphology of plants in 571.32, cell biology in plants in 571.62, plant biochemistry in 572, specific parts of plants in 575
581.3 Plant genetics and evolution	
581.35 Plant genetics	
581.38 Evolution of plants	
581.4 Adaptation	incl. fruits/seeds as reproductive adaptations
581.6 Miscellaneous nontaxonomic kinds of plants	incl. economic botany, ethnobotany; for plants noted for specific vegetative characteristics and flowers (like trees, vines, ...), see 582
581.62 Nonnative plants	class here nonindigenous plants, alien plants, exotic plants, invasive plants
581.63 Beneficial plants	incl. edible plants, medicinal plants, useful plants
581.65 Harmful plants	incl. weeds, poisonous plants
581.68 Rare and endangered plants	
581.7 Plants characteristic of specific environments, plant ecology	class here autecology (of plants)
581.73 Forest plants	
581.74 Grassland plants	
581.75 Plants of miscellaneous environments	incl. coastal plants, island plants, mountain plants, desert plants; incl. succulent plants
581.76 Aquatic plants	
581.77 Marine plants	
581.78 Synecology and population biology of plants	
581.782 Ecological communities	incl. phytosociology; plant communities; for plant associations characteristic of a specific environment see 577.3-577.7
581.783 Competition	
581.785 Symbiosis	incl. mutualism, parasitism
581.788 Population biology	
581.9 Treatments of plants by specific continents, countries, localities	incl. plant geography; phytogeography; geobotany; chorology of plants, floras, vegetation, plant distribution; for phytosociology see 581.782 and 577.3 ff.; use geographic key
<b>582 Plants noted for specific vegetative characteristics and flowers</b>	
582.1 Herbaceous and woody plants, plants noted for their flowers	
582.12 Herbaceous plants	incl. biennials; class here annuals
582.13 Plants noted for their flowers	class here wild flowers
582.16 Trees	class here dendrology; class here comprehensive works on woody plants
582.17 Shrubs	
582.18 Vines	class here climbing plants
>>>> 583 - 588 Specific taxonomic groups of plants <<<<	class comprehensive works in 580
>>>> 583 - 585 Spermatophyta (Seed plants) <<<<	class comprehensive works in 580
>>>> 583 - 584 Angiospermae (Flowering plants) <<<<	class comprehensive works in 580
<b>583 Magnoliopsida (Dicotyledons)</b>	
583.2 Magnoliidae	incl. Magnoliaceae, Lauraceae, Aristolochiaceae, Nymphaeaceae
583.3 Ranunculidae	incl. Ranunculaceae, Berberidaceae, Papaveraceae
583.4 Hamamelididae	incl. Urticaceae, Moraceae, Ulmaceae, Fagaceae, Betulaceae, Juglandaceae; incl. figs
583.5 Caryophyllidae	incl. Caryophyllaceae, Aizoaceae, Amaranthaceae, Chenopodiaceae, Cactaceae, Polygonaceae
583.6 Dilleniidae	incl. Hypericaceae, Violaceae, Cistaceae, Cucurbitaceae, Brassicaceae (Cruciferae), Salicaceae, Ericaceae, Primulaceae, Malvaceae, Euphorbiaceae
583.7 Rosidae	incl. Rosaceae, Saxifragaceae, Crassulaceae, Fabaceae (Leguminosales), Onagraceae, Myrtaceae, Geraniaceae, Oxalidaceae
583.8 Other orders of Rosidae	incl. Polygalaceae, Cornaceae, Araliaceae, Apiaceae (Umbelliferae), Oleaceae, Santalaceae, Proteaceae
583.9 Asteridae	incl. Rubiaceae, Boraginaceae, Scrophulariaceae, Solanaceae, Lamiaceae, Campanulaceae, Gentianaceae, Asteraceae (Compositae)
<b>584 Liliopsida (Monocotyledons)</b>	
584.3 Liliidae	incl. onions, narcissus, Amaryllidaceae, Iridaceae
584.4 Orchidales	
584.5 Arecidae	incl. coconuts, palm family
584.6 Cyclanthales, Arales, Pandanales, Typhales	
584.7 Alismidae	
584.8 Commelinidae	incl. Juncaceae (rush family), Cyperaceae (sedge family)
584.9 Poales (Graminales, Grasses)	class here Poaceae (Gramineae); incl. bamboo
<b>585 Pinophyta (Gymnosperms); Coniferales (Conifers)</b>	incl. Pinaceae, Podocarpaceae, Cupressaceae, Ginkgoaceae, Cycadaceae
<b>586 Cryptogamia (Seedless plants)</b>	for Pteridophyta, see 587; for Bryophyta, see 588; for lichens, see 5
<b>587 Pteridophyta (Vascular seedless plants)</b>	incl. Equisetales, horsetails, Filicopsida, ferns, Lycopsida, Selaginellales
<b>588 Bryophyta</b>	incl. Bryopsida, Musci, mosses, Hepatopsida, liverworts

## 590 Animals (Zoology)

590.1 Philosophy and theory in zoology	incl. taxonomical nomenclature
590.11 Systems in zoology	class here models (simulation) in zoology; incl. computer modeling
590.12 Classification in zoology	incl. zoological systematics, taxonomy
590.2 Miscellany	
590.22 Illustrations, models, miniatures	
590.28 Auxiliary techniques and procedures; apparatus, equipment, material	incl. microscopy
590.3 Dictionaries, encyclopedias, concordances	incl. zoological gazetteers
590.5 Serial publications	
590.6 Organizations and management	
590.7 Education, research-related topics	
590.71 Education	
590.72 Research; statistical methods	
590.73 Collections and exhibits of living animals	incl. zoological gardens
590.74 Museums, collections, exhibits	
590.75 Museum activities and services; Collecting	
590.9 Historical, geographic, persons treatment	incl. treatments of zoology by specific continents, countries, localities; class treatments of animals by specific continents, countries, localities in 591.9
590.92 Zoologists	incl. biography
<b>591 Specific topics in natural history of animals</b>	class animal physiology in 571.1, anatomy and morphology of animals in 571.31, cell biology in animals in 571.61, animal biochemistry in 572.1, specific parts of animals in 573
<b>591.3 Genetics, evolution, young of animals</b>	
591.35 Animal genetics	
591.38 Evolution of animals	
591.39 Young of animals	
<b>591.4 Physical adaptation</b>	incl. secondary sexual characteristics, mimicry, shells
<b>591.5 Animal behavior</b>	incl. predation, herbivorous animals, migration, locomotion, communication in animals
<b>591.6 Miscellaneous nontaxonomic kinds of animals</b>	incl. parasitic animals
591.62 Nonnative animals	class here nonindigenous animals, alien animals, exotic animals, invasive animals
591.63 Beneficial animals	incl. game animals
591.65 Harmful animals	incl. dangerous animals, poisonous animals
591.68 Rare and endangered animals	
<b>591.7 Animals characteristic of specific environments, animal ecology</b>	class here autecology (of animals)
591.73 Forest animals	
591.74 Grassland animals	
591.75 Animals of miscellaneous environments	incl. coastal animals, island animals, mountain animals, desert animals
591.76 Aquatic animals	
591.77 Marine animals	
591.78 Synecology and population biology of animals	
591.782 Ecological communities	
591.783 Competition	
591.785 Symbiosis	incl. mutualism, parasitism
591.788 Population biology	
591.9 Treatments of animals by specific continents, countries, localities	incl. animal geography, chorology of animals, distribution of animals, faunas; use geographic key
<b>&gt;&gt;&gt;&gt; 592 - 599 Specific taxonomic groups of animals &lt;&lt;&lt;&lt;</b>	class comprehensive works in 590
<b>592 Invertebrates</b>	for mollusca, see 594; for arthropoda, see 595; for marine invertebrates, see 593
592.1 General topics in natural history of invertebrates	incl. genetics, behavior of invertebrates
592.3 Worms	
592.4 Platyhelminthes (Flatworms)	
592.5 Aschelminthes (Nemathelminthes)	
592.6 Annelida (Segmented worms)	incl. earthworms
<b>593 Miscellaneous marine and seashore invertebrates</b>	limited to phyla provided below
593.4 Porifera (Sponges)	
593.5 Cnidaria (Coelenterata)	incl. medusae
593.6 Anthozoa	
593.8 Ctenophora (Comb jellies)	
593.9 Echinodermata and Hemichordata	incl. starfish
<b>594 Mollusks &amp; molluscoids</b>	
594.3 Gastropoda (Snails and slugs)	
594.4 Bivalvia	incl. mussels, oysters
594.5 Cephalopoda	incl. octopuses
594.6 Molluscoidea	incl. Bryozoa (moss animals)
<b>595 Arthropods</b>	
595.3 Crustacea	incl. shrimps, lobsters, crabs
595.4 Chelicerata, Arachnida	incl. mites, spiders, scorpions
595.6 Myriapoda	
595.7 Insecta (Insects)	incl. entomology
595.71 General topics in natural history of insects	incl. genetics, evolution, physical adaptation of insects
595.72 Apterygota; Orthoptera and related orders	incl. locusts, grasshoppers, cockroaches
595.73 Exopterygota (Hemimetabola)	incl. Psocoptera (book lice), Odonata (dragonflies), Plecoptera (stone flies), Isoptera (termites)
595.74 Mecoptera, Trichoptera, Neuroptera, Megaloptera, Raphidioptera	
595.75 Homoptera, Heteroptera, Anoplura, Mallophaga, Thysanoptera	incl. Hemiptera, aphids, true lice
595.76 Coleoptera (Beetles)	
595.77 Diptera (Flies) and Siphonaptera	incl. fleas
595.78 Lepidoptera	
595.79 Hymenoptera	incl. ants, wasps, bees
<b>&gt;&gt;&gt;&gt; 596 - 599 Vertebrates &lt;&lt;&lt;&lt;</b>	class Vertebrata in 596
<b>596 Chordates</b>	class here vertebrata; incl. Tunicata, Lancelets; excl. other
<b>597 Cold-blooded vertebrates; fishes</b>	class here comprehensive works on fishes, on taxonomic groups of fishes other than those named below
597.1 General topics in natural history of cold-blooded vertebrates / fishes	incl. genetics, evolution, physical adaptation of cold-blooded vertebrates / fishes
<b>&gt;&gt;&gt;&gt; 597.2 - 597.7 Pisces (Fishes) &lt;&lt;&lt;&lt;</b>	class comprehensive works in 597
597.3 Selachii, Holocephali, Sarcopterygii	incl. sharks, sawfishes, rays
597.5 Protacanthopterygii; Salmoniformes	incl. trouts, salmon, graylings
597.8 Amphibia	
597.9 Reptilia	incl. turtles, lizards, snakes; class here herpetology

<b>598 Birds</b>	
598.1 General topics in natural history of birds	incl. bird watching
>>>> 598.3 - 598.4 Water birds <<<<<	
598.3 Gruiformes, Charadriiformes, Ciconiiformes, Phoenicopteriformes	incl. genetics, evolution, physical adaptation of birds, birds of specific environments, water birds, ornithology
598.4 Miscellaneous orders of water birds	class comprehensive works in 598.1
>>>> 598.5 - 598.9 Land birds <<<<<	
598.5 Palaeognathae	incl. ducks, geese, swans, pelicans, penguins; class comprehensive works on water birds in 598.1
598.6 Galliformes and Columbiformes	incl. ostriches
598.7 Miscellaneous orders of land birds	incl. turkeys
598.71 Psittaciformes	limited to those named below; class comprehensive works on land bird in 598
598.72 Piciformes	incl. kakapo, lorries, parakeets, parrots
598.73 Trogoniformes (Trogons)	incl. Picidae, Indicatoridae, woodpeckers
598.74 Cuculiformes	incl. cuckoos, roadrunners
598.75 Colliformes	
598.76 Apodiformes	incl. swifts, hummingbirds
598.78 Coraciiformes	incl. kingfishers, bee eaters
598.8 Passeriformes (Perching birds)	incl. Songbirds, larks, swallows, crows, ravens etc.
598.9 Falconiformes, Strigiformes, Caprimulgiformes	class here birds of prey; incl. eagles, falcons, owls
<b>599 Mammals</b>	
599.1 General topics in natural history of mammals	
599.13 Genetics, evolution, young of mammals	
599.14 Physical adaptation of mammals	
599.16 Miscellaneous nontaxonomic kinds of mammals	incl. beneficial mammals
599.17 Mammals of specific environments	
599.2 Marsupialia and Monotremata	incl. kangaroos, opossums
>>>> 599.3 - 599.9 Eutheria (Placental mammals) <<<<<	
599.3 Miscellaneous orders of Eutheria (placental mammals)	class comprehensive works in 599
599.4 Chiroptera (Bats)	incl. Edentata, rabbits (Lagomorpha), hares, Insectivora, rodents, squirrels, beavers
599.5 Cetacea and Sirenia	incl. whales, dolphins, porpoises, Sirenia (sea cows)
599.6 Ungulates	incl. Giraffidae, Bovidae, sheep, deer, elk, Equidae, elephants, pigs, horses
599.7 Carnivora; Fissipedia (Land carnivores)	incl. cats, tiger, lion, otters, dogs, wolf, fox, bears, marine carnivores
599.8 Primates	class here Anthropoidea, monkeys; incl. gibbons, orangutan, gorilla, chimpanzees
599.9 Hominidae; Homo sapiens	class here physical anthropology [social anthropology etc. in 306]; incl. human genetics, human races
<b>[other related subjects outside the range 570-599]</b>	
<b>010 Bibliography</b>	
<b>320 Political sciences (Politics and government)</b>	incl. environmental politics, environmentalist parties
<b>333 Economics of land and energy</b>	bioDDC: do not use 333 itself; use numbers which are more specific
333.7 Natural resources and energy	incl. sustainable development, sustainability, environmental education (incl. incl. in original index)
333.72 Conservation and protection	class conservation and protection of a specific type of natural resource with the resource in 333.73-333.95 (as far as provided); class here national parks
333.75 Forest lands	incl. jungles, rainforests
333.782 Wilderness areas	
333.9 Other natural resources	
333.91 Water	
333.918 Submerged lands and wetlands	
333.92 Air	
333.94 Space	
333.95 Biological resources	incl. biosphere, biodiversity; incl. red data books/red lists
333.953 Plants as biological resources	incl. red data books/red lists of plants
333.954 Animals as biological resources	class here wildlife; incl. red data books/red lists of animals
<b>340 Law</b>	
<b>363 Other social problems and services</b>	incl. environmental law, laws regarding wastes, pollution, control / regulation / conservation of natural resources
363.7 Environmental problems	bioDDC: do not use 363 itself; use numbers that are more specific
363.73 Pollution	incl. sanitation
<b>508 Natural history</b>	class here description and surveys of phenomena in nature; class natural history of organisms in 578
<b>530 Physics</b>	
<b>540 Chemistry and allied sciences</b>	
<b>550 Earth Sciences</b>	incl. geology, hydrology, meteorology, petrology
<b>560 Paleontology, Paleozoology</b>	incl. paleoecology; class here works on fossil animals other than dinosaurs
561 Paleobotany; fossil microorganisms, fungi, algae	
567.9 Reptilia	incl. dinosaurs
<b>600 Technology</b>	
<b>610 Medicine &amp; health</b>	incl. human anatomy / cytology / histology / physiology
<b>630 Agriculture and related technologies</b>	incl. genetic engineering (in agricultural genetics), plant breeding, bee keeping
<b>632 Plant injuries, diseases and pests</b>	incl. phytopathology
<b>633 Field and plantation crops</b>	
<b>634 Orchards, fruits and forestry</b>	
<b>635 Garden crops (horticulture); Vegetables</b>	incl. gardening, floriculture
<b>636 Animal husbandry</b>	incl. veterinary medicine
<b>639 Hunting, fishing, conservation, related technologies</b>	
<b>660 Chemical engineering and related technologies</b>	
<b>660.6 Biotechnology</b>	incl. genetic engineering (in general); for genetic engineering in agricultural genetics, see 630



# Hierarchical table of geographical keys for *BioDDC*\*

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DDC numbers / captions

<b>091 Areas, regions, places in general</b>	
0911 Frigid zones	class here polar regions, for Arctic islands and Antarctica see 0998
0912 Temperate zones (Middle latitude zones)	
0913 Torrid zones (Tropics)	
0914 Land and landforms	incl. islands, mountains
0915 Regions by type of vegetation	incl. forests, grasslands, deserts
0916 Air and water	incl. atmosphere
09162 Oceans and Seas	
09163 Atlantic Ocean	incl. Arctic Ocean (North Polar Sea)
0916334 Baltic Sea	
0916336 North Sea and English Channel	
091638 Mediterranean Sea	incl. Black Sea; for Mediterranean region [terrestrial] see 091822
09164 Pacific Ocean	
09165 Indian Ocean	incl. Red Sea, Persian Gulf
0917 Socioeconomic regions	
0918 Other kinds of terrestrial regions	
091812 Western Hemisphere	incl. Neotropical Region (Neotropis)
091813 Northern Hemisphere	incl. Holarctic Region [Holarctis], Palearctic, Nearctic
091814 Southern Hemisphere	
091822 Mediterranean region	for Mediterranean Sea see 09163 class extraterrestrial worlds in 0999
0919 Space	
<b>093 Ancient world</b>	incl. Roman Empire, Ancient Palestine, Ancient Greece
<b>094 Europe</b>	
0941 British Isles	Great Britain, United Kingdom; incl. Scotland, Ireland; *for England and Wales, see -42*; incl. Shetland Islands
0942 England and Wales	
0943 Central Europe / Germany	*for Switzerland, see -494*
>> 09431 - 09435 Germany <<	CH-Regel: *class comprehensive works in -43*
09431 Northeastern Germany	
094315 Brandenburg and Berlin	
094317 Mecklenburg-Vorpommern	
094318 Saxony-Anhalt (Sachsen-Anhalt)	
09432 Saxony and Thuringia	
094321 Saxony (Sachsen)	
094322 Thuringia (Thüringen)	
09433 Bavaria (Bayern)	
09434 Southwestern Germany	
094341 Hesse (Hessen)	
094342 Saarland	
094343 Rhineland-Palatinate (Rheinland-Pfalz)	
094346 Baden-Württemberg	
09435 Northwestern Germany	
094351 Schleswig-Holstein and Hamburg	
094352 Bremen	
094355 North Rhine-Westphalia (Nordrhein-Westfalen)	
094359 Lower Saxony (Niedersachsen)	
>> 09436 - 09439 Other parts of Central Europe <<	CH-Regel: do not use
09436 Austria and Liechtenstein	
09437 Czech Republic and Slovakia	
09438 Poland	
09439 Hungary	
0944 France and Monaco	incl. Corsica (Corse)
0945 Italian Peninsula and adjacent islands	incl. Sicily, Sardinia, Malta
0946 Iberian Peninsula and adjacent islands	incl. Spain, Portugal, Andorra, Balearic Islands, Madeira, Azores
0947 Eastern Europe; Russia	incl. Caucasus (Azerbaijan, Armenia, Georgia), Moldova, Ukraine, Belarus, Lithuania, Latvia, Estonia; class here former Soviet Union, Caspian Sea; *for Balkan Peninsula, see -496*; for Siberia, Asiatic Russia see 0957
0948 Scandinavia	incl. Norway, Sweden, Denmark, Finland; for Greenland, see 0998
0949 Other parts of Europe	
09491 Northwestern Islands	incl. Iceland, Faeroes
09492 Netherlands (Holland)	class here comprehensive works on Benelux countries
09493 Southern Low Countries; Belgium	incl. Luxemburg
09494 Switzerland	class here Alps
>> 09495 - 09499 Balkan Peninsula <<	CH-Regel: do not use; use -496 instead
09495 Greece	incl. Crete, Aegean Islands
09496 Balkan Peninsula	incl. Turkey in Europe, Albania; for other parts see 09495 - 09499
09497 Yugoslavia, Croatia, Slovenia, Bosnia and Hercegovina, Macedonia	
09498 Romania	
09499 Bulgaria	

<b>095 Asia</b>	class here Eurasia
0951 China and adjacent areas	class here China; incl. Manchuria, Taiwan, Hong Kong, Macao
09515 Tibet Autonomous Region (Xizang Zizhiqu)	
09517 Mongolia	incl. Inner Mongolia Autonomous Region
09519 Korea	incl. North Korea, South Korea
0952 Japan	
0953 Arabian Peninsula and adjacent areas	incl. Sinai Peninsula, Yemen, Oman, United Arab Emirates, Persian Gulf States (Qatar, Bahrain, Kuwait)
09538 Saudi Arabia	
0954 South Asia; India	class here India; incl. Sikkim, Andaman and Nicobar Islands, Indian part of Kashmir; incl. Karakoram Range
09549 Pakistan, Bangladesh, Sri Lanka, Maldives, Nepal, Bhutan	incl. Pakistan part of Kashmir; class here Himalaya Mountains
0955 Iran	
0956 Middle East (Near East)	
09561 Turkey	for Turkey in Europe see 09496
09567 Iraq	
09569 Syria, Lebanon, Cyprus, Israel, Jordan	incl. Palestine
0957 Siberia (Asiatic Russia)	incl. Kamchatka, Kuril Islands
0958 Central Asia	incl. Afghanistan, Turkestan, Kyrgyzstan, Turkmenistan, Tajikistan, Uzbekistan; incl. Hindu Kush, Aral Sea
0959 Southeast Asia	incl. Myanmar (Burma), Laos, Malaysia, Singapore, Vietnam, Cambodia, Philippines
09593 Thailand	
09598 Indonesia	class here Malesia [biogeographical region]
<b>096 Africa</b>	
0961 Tunisia and Libya	
0962 Egypt and Sudan	
0963 Ethiopia and Eritrea	
0964 Northwest African coast and offshore islands; Morocco	class here Morocco; incl. Western Sahara (country); for Sahara Desert, see 0966
09649 Canary Islands	
0965 Algeria	
0966 West Africa and offshore islands	incl. Mauritania, Mali, Burkina Faso, Niger, Senegal, Sierra Leone, Gambia, Guinea, Cape Verde Islands, Liberia, Côte d'Ivoire, Ghana, Togo, Benin, Nigeria; class here Sahara Desert, Sahel
0967 Central Africa and offshore islands	incl. Angola, Central African Republic, Chad, Djibouti, Somalia; class here Black Africa
09671 Cameroon, Sao Tome and Principe, Equatorial Guinea	
09672 Gabon and Republic of the Congo	see also 09675 for Democratic Republic of the Congo (=Zaire)
09675 Zaire, Rwanda, Burundi	incl. Democratic Republic of the Congo (=Zaire)
09676 Uganda and Kenya	class here East Africa
09678 Tanzania	incl. Zanzibar
09679 Mozambique	
0968 Southern Africa, Republic of South Africa	class here Republic of South Africa; incl. Zimbabwe (former name Rhodesia), Zambia, Malawi, Kalahari Desert, Homelands
09688 Namibia, Botswana, Lesotho, Swaziland	
0969 South Indian Ocean islands	incl. Madagascar, Seychelles, Réunion, Mauritius
<b>097 North America</b>	for Hawaii, see 0996; for both Americas together see 091812 Western Hemisphere
0971 Canada	
0972 Middle America, Mexico	incl. Guatemala, Belize, Honduras, El Salvador, Nicaragua, Costa Rica, Panama, West Indies (Antilles), Cuba, Puerto Rico, Bermuda
>> 0973 - 0979 United States of America <<	CH-Regel: do not use; use -73 instead
0973 United States	class here comprehensive works; for specific states, see 0974-0979
0974 Northeastern United States (New England and Middle Atlantic states)	incl. Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, New Jersey
0975 Southeastern United States (South Atlantic states)	incl. Delaware, Maryland, District of Columbia (Washington), West Virginia, Virginia, North Carolina, South Carolina, Georgia, Florida
0976 South central United States; Gulf Coast states	incl. Alabama, Mississippi, Louisiana, Texas, Oklahoma, Arkansas, Tennessee, Kentucky
0977 North central United States; Lake states	incl. Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri
0978 Western United States	incl. Kansas, Nebraska, South Dakota, North Dakota, Montana, Wyoming, Colorado, New Mexico; class here Rocky Mountains
0979 Great Basin and Pacific Slope region of United States; Pacific Coast	incl. Arizona, Utah, Nevada, California, Oregon, Idaho, Washington, Alaska
<b>098 South America</b>	class here Latin America, Andes; for Neotropical Region (Neotropis), and for both Americas together see 091812 Western Hemisphere
0981 Brazil	
0982 Argentine	incl. comprehensive works on Patagonia
0983 Chile	
0984 Bolivia	
0985 Peru	
0986 Colombia and Ecuador	incl. Galapagos Islands
0987 Venezuela	
0988 Guiana	incl. Guyana, French Guyana, Suriname
0989 Paraguay and Uruguay	
<b>099 Other parts of the world and extraterrestrial worlds</b>	
>> 0993 - 0996 Pacific Ocean Islands <<	CH-Regel: class comprehensive works in -9; for Pacific Ocean, see 09164
0993 New Zealand	
0994 Australia	incl. Tasmania, Great Barrier Reef
0995 Melanesia; New Guinea	incl. Bismarck Archipelago, Solomon Islands; class here Oceania
0996 Other parts of Pacific Ocean; Polynesia	incl. Fiji, Tonga, Samoa, Hawaii
0998 Arctic islands and Antarctica	incl. Greenland, Spitsbergen Island
0999 Extraterrestrial worlds	incl. Earth's moon, Mars, meteoroids and comets

## Alphabetical index of subject numbers in BioDDC

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Geographical terms from table 2 which are in use in BioDDC are not included in this index of subject numbers—please see below the separate Alphabetical index of geographical keys.

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