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Identification of genus and species. The cultivation of diatoms makes it possible, to assign observations to a genus or even species. For this they must be identified. It is a difficult area with an extensive literature that is only mastered by experts. This is the reason why the information on the videos shown here is to be questioned occasionally.

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Diatom identification

Diatoms of North America is a collaborative work in progress, growing and changing as science advances. Taxon Contributors. ... Identification Guide. Genera. Classification information, citations, links and species listings for 164 genera completed to date.

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Guide to genera . Species.

Diatoms of North America

monoraphid diatoms, where one valve possesses a raphe and the other possesses a pseudoraphe. Valve: Diatom cells include an outer, siliceous cell wall which is composed of two parts, or valves. Many of the features

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used to classify diatoms are based on the morphology of the valves. Each valve has a face and a mantle. Raphe location Yes Yes Yes

Diatom Identification Key - Place-based activities

Diatom Identification Guide What are

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Diatoms? Diatoms are single-celled algae that live nearly everywhere there is water - streams, ponds, lakes, oceans, and even soils. Diatoms of North America Diatom identification A stand-alone software-based taxonomic key to the diatom species most commonly encountered in South African rivers and streams.

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taxonomic key to the diatom species most commonly encountered in South African rivers and streams.

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Traditionally, diatom identification has been made by expert biologists. They usually use

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morphometric measures, such as length and width, and other frustule characteristics, like striae density, and they make the identification comparing specimens with previously described diatom in the literature (Blanco, Borrego-Ramos & Olenici, 2017). This task is challenging due to a huge number of diatom species, similarities

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between species and life cycle related changes in shape and texture.

Diatom identification including life cycle stages through ...

Introduction Freshwater Diatom Flora of Britain and Ireland is a major project aiming to compile a web-based diatom flora and

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comprehensive taxonomic review of diatoms from freshwater, brackish and subaerial habitats in the British Isles. The project involves much original research on problematic groups, and description of new species.

Home | Diatom Flora of Britain and Ireland

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Taxa By Morphology For the purposes of a visual key, we group diatom shapes into nine artificial (not strictly evolutionary) categories to aid in identification Why not group by evolutionary relationship?

Morphology - Diatoms of North America
Diatoms of North America. The source for

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diatom identification and ecology

Species - Diatoms of North America

Structure 1) Nucleus; holds the genetic material 2) Nucleolus; Location of the chromosomes 3) Golgi complex; modifies proteins and sends them out of the cell 4) Cell Wall; Outer membrane of the cell 5)

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Pyrenoid; center of carbon fixation 6)
Chromatophore; pigment carrying membrane structure 7) ...

Diatom - Wikipedia

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Identification guide; 1. Choose a type of habit (overall structure). Algae are colonial -

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cells united in packets, either joined side-to-side, loosely attached, united in common jelly, etc - but not solely joined end-to-end as in a filament. Diatom - Wikipedia UK river diatom identification guide.

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amsterdam2018.pvda.nl

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Diatom Identification Guide What are Diatoms? Diatoms are single-celled algae that live nearly everywhere there is water - streams, ponds, lakes, oceans, and even soils. Diatoms of North America Diatom identification A stand-alone software-based taxonomic key to the diatom species most commonly encountered in South African

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rivers and streams.

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Correct identification of diatom taxa is indispensable for diatom-based water quality studies, as well as for biotechnological applications. Biological

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applications of taxonomy include the identification of taxa from particular specimens. In this regard, identification keys, that use a predetermined set of characters to identify a given individual, are not commonly employed by diatom specialists due to the extreme biological diversity found in this group of microalgae.

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Diatom Taxonomy and Identification Keys | SpringerLink

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dc-75c7d428c907.tecadmin.net A unique feature of diatom anatomy is that they are surrounded by a cell wall made of silica (hydrated silicon dioxide), called a frustule.

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FSC Diatoms AIDGAP is an identification guide to diatom genera of benthic habitats in rivers in Britain and Ireland. Identification goes to species level for the most common species. Diatom identification is challenging,

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but with practice it becomes easier to recognise the main characters.

Diatoms AIDGAP – Field Studies Council
Illustrated keys to the genera of diatoms found in benthic habitats in the UK are provided, along with guides to the identification of the most common species

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within larger genera. Notes on sampling and laboratory preparation are also provided along with comments on the ecology and environmental preferences for many of the taxa described.

Identification of Common Benthic Diatoms in Rivers | NHBS ...

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Identifying Marine Phytoplankton is an accurate and authoritative guide to the identification of marine diatoms and dinoflagellates, meant to be used with tools

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as simple as a light microscope.

Identifying Marine Phytoplankton |

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This book is the first to provide an identification key to this important freshwater group of algae which enables the user to work from live specimens. The use of fresh material means that time-consuming preparation techniques can be avoided enabling analyses to be made within a short time of collection. Also the diatoms can be

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counted, identified and studied at the same time as other algae in the sample. The book provides a general introduction to the diatoms including a resume of the variety of chloroplast forms encountered, a review of colony types, a guide to shape terminology and also information on how to measure cells. The keys are designed for the specialist

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and the non-specialist alike, allowing two points of entry and the identification of most common taxa to species level. When cleaned material is necessary for unequivocal identification, this is indicated. The book also contains a list of all species included with brief ecological notes on occurrences and distribution along with a

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glossary of terms. This book will be of immense use to biologists studying algal communities in freshwater ecosystems and particularly to those involved in monitoring programmes. The increasing realization of the importance of algae to the health of aquatic ecosystems, and the developing use of diatoms as environmental indicators

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means that this volume will become an invaluable aid to the water industries and environmental protection agencies.

High-resolution images of phytoplankton cells such as diatoms or desmids, which are useful for monitoring water quality, can now be provided by digital microscopes,

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facilitating the automated analysis and identification of specimens. Conventional approaches are based on optical microscopy; however, manual image analysis is impractical due to the huge diversity of this group of microalgae and its great morphological plasticity. As such, there is a need for automated recognition

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techniques for diagnostic tools (e.g. environmental monitoring networks, early warning systems) to improve the management of water resources and decision-making processes. Describing the entire workflow of a bioindicator system, from capture, analysis and identification to the determination of quality indices, this

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book provides insights into the current state-of-the-art in automatic identification systems in microscopy.

This is the first book to deal with automatic diatom identification. It provides the necessary background information concerning diatom research, useful for both

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diatomists and non-diatomists. It deals with the development of electronic databases, image preprocessing, automatic contour extraction, the application of existing contour and ornamentation features and the development of new ones, as well as the application of different classifiers (neural networks, decision trees, etc.). These are

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tested using two image sets: (i) a very difficult set of *Sellaphora pupula* with 6 demes and 120 images; (ii) a mixed genera set with 37 taxa and approximately 800 images. The results are excellent, and recognition rates well above 90% have been achieved on both sets. The results are compared with identification rates obtained

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by human experts. One chapter of the book deals with automatic image capture, i.e. microscope slide scanning at different resolutions using a motorized microscope stage, autofocusing, multifocus fusion, and particle screening to select only diatoms and to reject debris. This book is the final scientific report of the European ADIAC

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project (Automatic Diatom Identification and Classification), and it lists the web-sites with the created public databases and an identification demo.

Identifying Marine Diatoms and Dinoflagellates is the second identification manual created from the literature

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developed for the Advanced International Phytoplankton Course. This version, enlarged and modified from the earlier literature, deals with the identification of marine diatoms and dinoflagellates. The data and references presented here should allow the researcher to pursue the question of valid species and how they can be

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verified. This volume comprises three chapters, beginning with an introductory chapter discussing the subject's historical background. The next chapter focuses on marine diatoms, providing an introduction that describes their general characteristics, life cycles, morphology and terminology, and classification. It is followed by a

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discussion of genera represented in marine plankton, a description of taxa, and methodology. The third and final chapter focuses on dinoflagellates, beginning with an introduction that describes their general characteristics and eukaryotic unicells. The discussion continues with terminology and morphology, identification of species,

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techniques for preparation of dinoflagellates for identification, common dinoflagellate synonyms, and an index of dinoflagellate taxa. This book will be of interest to practitioners in the fields of biology, zoology, and environmental protection.

Identifying Marine Phytoplankton is an

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accurate and authoritative guide to the identification of marine diatoms and dinoflagellates, meant to be used with tools as simple as a light microscope. The book compiles the latest taxonomic names, an extensive bibliography (referencing historical as well as up-to-date literature), synthesis and criteria in one indispensable

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source. Techniques for preparing samples and containing are included as well as hundreds of detailed, helpful information. Identifying Marine Phytoplankton is a combined paperback edition made available by popular demand of two influential books published earlier-- Marine Phytoplankton and Identifying Marine Diatoms and

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Dinoflagellates. Contains hundreds of illustrations showing critical characteristics necessary for proper identification, plus keys and other guides Provides up-to-date taxonomic revisions Includes species from around the world Updates synthesis of modern and historical literature presented by active researchers in the field Compiles

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literature from around the world into one
handy source

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Designed as the primary reference for the biotechnological use of macroalgae, this comprehensive handbook covers the entire value chain from the cultivation of algal biomass to harvesting and processing it, to

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product extraction and formulation. In addition to covering a wide range of product classes, from polysaccharides to terpenes and from enzymes to biofuels, it systematically discusses current and future applications of algae-derived products in pharmacology, medicine, cosmetics, food and agriculture. In doing so, it brings

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together the expertise of marine researchers, biotechnologists and process engineers for a one-stop resource on the biotechnology of marine macroalgae.

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