

## Tecophilaeaceae

M.G. SIMPSON and P.J. RUDALL

Tecophilaeaceae Leyb., *Bonplandia* 10: 370 (1862), nom. cons.  
Cyanastraceae Engler (1900).

Erect, perennial, terrestrial herbs. Roots fibrous. Subterranean stem a globose to ellipsoid corm, 1–4 cm in diameter, in some genera with a membranous to fibrous tunic consisting of persistent sheathing leaves or fibrovascular bundles. Leaves basal to subbasal, or cauline in *Walleria*, spiral; base sheathing or non-sheathing, blades narrowly linear to lanceolate-ovate, or more or less petiolate in *Cyanastrum* and *Kabuyea*; entire, glabrous, flat, or marginally undulate; venation parallel with a major central vein. Flowers terminal and either solitary (or in small groups) and a panicle or (in *Walleria*) solitary in the axils of cauline leaves. Bracts and bracteoles (prophylls) often present on pedicel. Flowers 1–3 cm long, pedicellate, bisexual, trimerous. Perianth variable in color, zygomorphic or actinomorphic, homochlamydeous, basally sympetalous; perianth lobes 6, imbricate in 2 whorls, the outer median tepal positioned anteriorly; minute corona appendages present between adjacent stamens in some taxa. Androecium arising at mouth of perianth tube, opposite the tepals and either actinomorphic or zygomorphic, composed of either 6 fertile stamens or combinations of fertile stamens and staminodes; fertile stamens similar in size and shape or dimorphic, oriented equally in a circle or oriented in anterior and posterior groups. Fertile anthers 2-locular, poricidally dehiscent (or almost so). Gynoecium syncarpous; ovary semiinferior to almost superior; carpels and locules 3; placentation axile; ovules 2 to numerous per carpel. Fruit a loculicidal capsule. Seeds ranging from yellow to brown to black, and of varied size and shape.

Eight genera, ca. 23 species, Chile, southern and tropical Africa, Madagascar, and California.

**VEGETATIVE MORPHOLOGY.** All genera of Tecophilaeaceae have a subterranean, oblate to globose corm, 1–4 (generally 2) cm in diameter. In five genera (*Conanthera*, *Cyanella*, *Odontostomum*, *Tecophilaea*, and *Zephyra*) the corm is enveloped by a tunica, which consists of membranous to

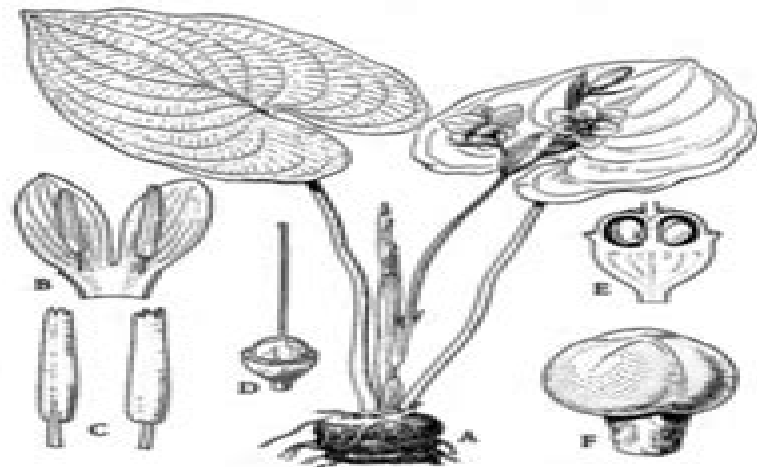


Fig. 122A–F. Tecophilaeaceae. *Cyanastrum cordifolium*. A Flowering plant. B Tepals with stamens. C Stamens. D Pistil. E Ovary, longitudinal section. F Capsule. (Takhtajan 1982)

fibrous scale leaves or leaf bases or the reticulate fibrovascular remains of these scale leaves (Fig. 123). The tunic often continues above the corm, in some cases forming an apical tuft. Corms of *Walleria*, *Cyanastrum*, and *Kabuyea* lack a corm tunic (Fig. 122).

Leaves are bifacial and spirally arranged. Leaf venation is parallel, with 1 major central vein. Photosynthetic leaves of some genera are basal to subbasal with a tubular sheath surrounding the base of the aerial stem axis. One or 2 sheathing non-photosynthetic leaves are sometimes present at the base of the photosynthetic leaves. Leaf blades are glabrous, entire, flat or marginally undulate and are very narrowly linear, lanceolate, or lanceolate-ovate in shape, or more or less petiolate in *Cyanastrum* and *Kabuyea*. *Walleria* differs in having cauline photosynthetic leaves (basal leaves being absent) which are equally inserted along the aerial stem. Leaves of *Walleria* are sessile, lanceolate, entire, glabrous, and scabrous on the abaxial midrib.

Tillich (1995) described seedling structure in *Cyanastrum cordifolium*, *Cyanella*, and *Walleria*. In *Cyanella* and *Walleria* there is a haustorial hyperphyll, a short tubular sheath and a coleoptile, which becomes very long in *Cyanella*. In *Cyanastrum cordifolium* the hypocotyl and pri-

# Flowering Plants Monocotyledons Alismatanae And Commelinanae Except Gramineae

**Klaus Kubitzki**



## **Flowering Plants Monocotyledons Alismatanae And Commelinanae Except Gramineae:**

Flowering Plants. Monocotyledons Klaus Kubitzki, 2013-04-17 When Rolf Dahlgren and I embarked on preparing this book series Rolf took prime responsibility for monocotyledons which had interested him for a long time After finishing his comparative study and family classification of the monocots he devoted much energy to the acquisition and editing of family treatments for the present series After his untimely death Peter Goldblatt who had worked with him continued to handle further incoming monocot manuscripts until in the early 1990s his other obligations no longer allowed him to continue At that time some 30 manuscripts in various states of perfection had accumulated which seemed to form a solid basis for a speedy completion of the FGVP monocots with the exception of the grasses and orchids which would appear in separate volumes I felt a strong obligation to do everything to help in publishing the manuscripts that had been put into our hands I finally decided to take charge of them personally although during my life as a botanist I had never seriously been interested in monocots

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**Flowering Plants. Monocotyledons** Klaus Kubitzki, 2010-12-01 When Rolf Dahlgren and I embarked on preparing this book series Rolf took prime responsibility for monocotyledons which had interested him for a

long time After finishing his comparative study and family classification of the monocots he devoted much energy to the acquisition and editing of family treatments for the present series After his untimely death Peter Goldblatt who had worked with him continued to handle further incoming monocot manuscripts until in the early 1990s his other obligations no longer allowed him to continue At that time some 30 manuscripts in various states of perfection had accumulated which seemed to form a solid basis for a speedy completion of the FGVP monocots with the exception of the grasses and orchids which would appear in separate volumes I felt a strong obligation to do everything to help in publishing the manuscripts that had been put into our hands I finally decided to take charge of them personally although during my life as a botanist I had never seriously been interested in monocots

Aquatic Monocotyledons of North America Donald H. Les, 2020-05-10 This book brings together information on the natural history ecology and systematics of North American aquatic monocotyledons The book is an overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature herbarium databases and other reference sources Information on more than 300 species in 87 genera of monocotyledons will be included Recent phylogenetic analyses will be incorporated Although focusing specifically on North America the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well

**Key Selling Features** The primary source of natural history information on aquatic plants Comprehensive lists of ecological associates Synthetic overview of systematic relationships of aquatic species and genera Practical information for rare and invasive plant managers Essential guide to facilitate wetland delineation

*Plant Systematics* Michael G. Simpson, 2011-08-09 *Plant Systematics* is a comprehensive and beautifully illustrated text covering the most up to date and essential paradigms concepts and terms required for a basic understanding of plant systematics This book contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties It provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant descriptions Pedagogy includes review questions exercises and references that complement each chapter This text is ideal for graduate and undergraduate students in botany plant taxonomy plant systematics plant pathology ecology as well as faculty and researchers in any of the plant sciences The Henry Allan Gleason Award of The New York Botanical Garden awarded for Outstanding recent publication in the field of plant taxonomy plant ecology or plant geography 2006 Contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties Provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families Includes a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant description

Flowering Plants, Monocotyledons Klaus Kubitzki, 1998

*Early Events in Monocot Evolution* Paul Wilkin, Simon J. Mayo, 2013-05-30

Tracing the evolution of one of the most ancient major branches of flowering plants this is a wide ranging survey of state of the art research on the early clades of the monocot phylogenetic tree It explores a series of broad but linked themes providing for the first time a detailed and coherent view of the taxa of the early monocot lineages how they diversified and their importance in monocots as a whole Featuring contributions from leaders in the field the chapters trace the evolution of the monocots from largely aquatic ancestors Topics covered include the rapidly advancing field of monocot fossils aquatic adaptations in pollen and anther structure and pollination strategies and floral developmental morphology The book also presents a new plastid sequence analysis of early monocots and a review of monocot phylogeny as a whole placing in an evolutionary context a plant group of major ecological economic and horticultural importance

**Ecology of Indonesian Papua Part One** Andrew J. Marshall, Bruce M. Beehler, 2011-07-19 The Ecology of Papua provides a comprehensive review of current scientific knowledge on all aspects of the natural history of western Indonesian New Guinea Designed for students of conservation environmental workers and academic researchers it is a richly detailed text dense with biogeographical data historical reference and fresh insight on this complicated and marvelous region We hope it will serve to raise awareness of Papua on a global as well as local scale and to catalyze effective conservation of its most precious natural assets New Guinea is the largest and highest tropical island and one of the last great wilderness areas remaining on Earth Papua the western half of New Guinea is noteworthy for its equatorial glaciers its vast forested floodplains its imposing central mountain range its Raja Ampat Archipelago and its several hundred traditional forest dwelling societies One of the wildest places left in the world Papua possesses extraordinary biological and cultural diversity Today Papua s environment is under threat from growing outside pressures to exploit its expansive forests and to develop large plantations of oil palm and biofuels It is important that Papua s leadership balance economic development with good resource management to ensure the long term well being of its culturally diverse populace

**Flowering Plants · Dicotyledons** Joachim W. Kadereit, 2012-12-06 In this volume 24 flowering plant families comprising a total of 911 genera are treated They represent the asterid order Lamiales except for Acanthaceae including Avicenniaceae which will be included in a later volume Although most of the constituent families of the order have been recognized as being closely related long ago the inclusion of the families Byblidaceae Carlemanniaceae and Plocospermataceae is the result mainly of recent molecular systematic research Keys for the identification of all genera are provided and likely phylogenetic relationships are discussed extensively To facilitate the recognition of relationships families are cross referenced where necessary The wealth of information contained in this volume makes it an indispensable source for anybody in the fields of pure and applied plant sciences

**Flowering Plants. Eudicots** Klaus Kubitzki, 2010-12-10 This volume the tenth in the series comprises modern treatments for the families and genera of the eudicot orders Sapindales and Cucurbitales The circumscription of the orders families and genera conforms to the most recent systematic studies The family treatments include descriptions of the families and the genera

classification keys discussions of relationships and data on their morphology reproductive biology distribution ecology and economic importance Sapindales and Cucurbitales as understood in this volume comprise 16 families with 637 genera and roughly 9 240 species Sapindales include large tropical and southern temperate tree families such as the Anacardiaceae Sapindaceae these in the modern circumscription which includes Aceraceae and Hippocastanaceae Meliaceae and Rutaceae which have long been considered to be closely related Cucurbitales represent a relatively new ordinal concept apart from some small woody groups the order contains two large families Cucurbitaceae and Begoniaceae which are predominantly and likely basically herbaceous A detailed treatment of the tropical and southern temperate woody family Myrtaceae itself comprising 142 genera and 6 700 species is an addendum to the treatment of the Myrtales in Vol IX of this series

**Phylonoms** Kevin de Queiroz, Philip D. Cantino, Jacques A. Gauthier, 2020-04-30 Phylonoms is an implementation of PhyloCode which is a set of principles rules and recommendations governing phylogenetic nomenclature Nearly 300 clades lineages of organisms are defined by reference to hypotheses of phylogenetic history rather than by taxonomic ranks and types This volume will document the Real World uses of PhyloCode and will govern and apply to the names of clades while species names will still be governed by traditional codes Key Features Provides clear regulations for implementing new guidelines for naming lineages of organisms incorporates expressly evolutionary and phylogenetic principles Works with existing codes of nomenclature Eliminates the reliance on rank based classification in favor of phylogenetic relationships Related Titles Rieppel O Phylogenetic Systematics Haeckel to Hennig ISBN 978 1 4987 5488 0 Cantino P D and de Queiroz K International Code of Phylogenetic Nomenclature PhyloCode ISBN 978 1 138 33282 9 Flora of the Sydney Region Belinda Jane Pellow, Murray James Henwood, Roger C. Carolin, 2009 The fifth edition Flora of the Sydney Region is the definitive technical guide to the identification of wild plants in one of the world's botanical heartlands The Flora covers an area of coastal New South Wales stretching from Newcastle to Nowra and west to Lithgow This comprehensive treatment contains diagnostic keys and descriptions that make it possible for the reader to identify any of the 3 000 indigenous or naturalised plant species found in this botanically diverse region The identification keys efficiently guide the reader through those plant characteristics necessary to arrive at the correct scientific name The identification process is further aided by a glossary and an extensive index of scientific and common plant names Species descriptions include habitat details and flowering times An instructive introduction provides support for the novice botanist When first published in 1963 Flora of the Sydney Region was the only complete regional Flora in Australia This fully revised edition of the Flora incorporates the wealth of botanical research which has taken place since the publication of the fourth edition in 1994 As a trusty field guide and authoritative desktop reference it will be a constant companion to environmental consultants amateur and professional botanists ecologists bushwalkers bush regenerators and teaching institutions *Systematic Pomology (Vol. 1-2) (Set)* O.P. Pareek, Suneel Sharma, 2017-01-01 The book is aimed to be a treatise on the Systematic Pomology the primary component of

science of fruits dealing with identification nomenclature and classification of fruit species based on the descriptions of characteristics related to their morphological genetical physiological biochemical biotechnological and eco attributes Besides taxonomic narrative of each species under the respective orders and genera considerable emphasis has been laid on cultivars The treatment is based on the latest version of Nomenclature and Phylogenetic System of Classification APG III The book is richly illustrated with diagrams and colour plates and carries fairly exhaustive bibliography and glossary Thus the book is of high academic value for research workers teachers students and anyone interested in advanced fruit culture to provide insight in identifying and classifying fruit plants providing standard nomenclature and terminology in avoiding the confusion from synonymy and promoting correct labeling to understand their genetic relations in establishing or maintaining a garden a germplasm bank a research orchard or even herbaria in identification of new genotypes or cultivars for introduction and in deciding orchard management practices as well as methods of utilization in using the correct related cultivars kept in a genetic resources repository for improvement considering the limits of hybridization and in selecting genetic material for a breeding programme considering their taxonomic proximities and specific characters related to fruit bearing regularity nutritive and edible quality resistance to biotic and abiotic stresses and plant stature and form Contributions from the United States National Herbarium ,2003

**Plant Taxonomy** Tod F. Stuessy,2009-01-01 The field of plant taxonomy has transformed rapidly over the past fifteen years especially with regard to improvements in cladistic analysis and the use of new molecular data The second edition of this popular resource reflects these far reaching and dramatic developments with more than 3 000 new references and many new figures Synthesizing current research and trends Plant Taxonomy now provides the most up to date overview in relation to monographic biodiversity and evolutionary studies and continues to be an essential resource for students and scholars This text is divided into two parts Part 1 explains the principles of taxonomy including the importance of systematics characters concepts of categories and different approaches to biological classification Part 2 outlines the different types of data used in plant taxonomic studies with suggestions on their efficacy and modes of presentation and evaluation This section also lists the equipment and financial resources required for gathering each type of data References throughout the book illuminate the historical development of taxonomic terminology and philosophy while citations offer further study Plant Taxonomy is also a personal story of what it means to be a practicing taxonomist and to view these activities within a meaningful conceptual framework Tod F Stuessy recalls the progression of his own work and shares his belief that the most creative taxonomy is done by those who have a strong conceptual grasp of their own research

**Global Seagrass Research Methods** F.T. Short,R.G. Coles,2001-11-06 This thorough and informative volume presents a set of detailed globally applicable techniques for seagrass research The book provides methods for all aspects of seagrass science from basic plant collection to statistical approaches and investigations of plant animal interaction The emphasis is on methods that are applicable in both developing and developed countries The

importance of seagrasses in coastal and near shore environments and ultimately their contribution to the productivity of the world's oceans has become increasingly recognised over the last 40 years. Seagrasses provide food for sea turtles, nearly 100 fish species, waterfowl and for the marine mammals the manatee and dugong. Seagrasses also support complex food webs by virtue of their physical structure and primary production and are well known for their role as breeding grounds and nurseries for important crustacean, finfish and shell fish populations. Seagrasses are the basis of an important detrital food chain. The plants filter nutrients and contaminants from the water, stabilise sediments and act as dampeners to wave action. Seagrasses rank with coral reefs and mangroves as some of the world's most productive coastal habitats and strong linkages among these habitats make the loss of seagrasses a contributing factor in the degradation of the world's oceans. Contributors from around the world provide up to date methods for comparable collection of ecological information from both temperate and tropical seagrass ecosystems.

*Seagrasses: Biology, Ecology and Conservation* Anthony W. D. Larkum, Robert J. Orth, Carlos Duarte, 2007-05-16. Seagrasses are unique plants, the only group of flowering plants to recolonise the sea. They occur on every continental margin except Antarctica and form ecosystems which have important roles in fisheries, fish nursery grounds, prawn fisheries, habitat diversity and sediment stabilisation. Over the last two decades there has been an explosion of research and information on all aspects of seagrass biology. However, the compilation of all this work into one book has not been attempted previously. In this book, experts in 26 areas of seagrass biology present their work in chapters which are state of the art and designed to be useful to students and researchers alike. The book not only focuses on what has been discovered but what exciting areas are left to discover. The book is divided into sections on taxonomy, anatomy, reproduction, ecology, physiology, fisheries management, conservation and landscape ecology. It is destined to become the chosen text on seagrasses for any marine biology course.

**Nectaries and Nectar** Susan W. Nicolson, Massimo Nepi, Ettore Pacini, 2007-04-18. Nectar is the most important reward offered by plants to pollinating animals. This book is a modern and interdisciplinary text on nectar and nectaries, prompted by the expansion of knowledge especially in the more ecological and now molecular fields and the strong recent interest in pollination biology. The topics covered vary widely; they include historical aspects, the structure and ultrastructure of nectaries and relationships to plant systematics, the dynamics of nectar secretion, nectar chemistry and the molecular biology of defence proteins, adaptations to insect and vertebrate nectar consumers and consequences for pollination ecology and broad scale studies of nectar resources at the community level.

**Flowering Plants. Dicotyledons** Klaus Kubitzki, 2013-11-11. Compiled and written for advanced students, this encyclopedia contains a comprehensive treatment of the taxonomy of the families and genera of ferns and seed plants. The present volume, the sixth in this series, deals with five groups of dicotyledons: the Celastrales, Oxalidales, Rosales, Cornales and Ericales, comprising 48 families.



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