



湖北省学术著作
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Academic Publications



Colored Illustrated Aquatic Plant Flora of China

中国水生植物图志

..... 王青锋 李 伟◎编著

长江出版传媒
Changjiang Publishing & Media
湖北科学技术出版社
HUBEI SCIENCE & TECHNOLOGY PRESS



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图书在版编目 (CIP) 数据

中国水生植物图志 = Colored Illustrated Aquatic
Plant Flora of China : 英文 / 王青锋, 李伟编著. — 武汉 :
湖北科学技术出版社, 2017.11
ISBN 978-7-5352-8380-1

I. ①中… II. ①王… ②李… III. ①水生植物—中国—图志
IV. ①Q948.8-64

中国版本图书馆CIP数据核字(2015)第286309号

责任编辑: 严 冰 杨瑰玉

封面设计: 喻 杨

出版发行: 湖北科学技术出版社

电话: 027—87679468

地 址: 武汉市雄楚大街268号

(湖北出版文化城B座13—14层)

邮编: 430070

网 址: <http://www.hbstp.com.cn>

印 刷: 武汉市金港彩印有限公司

邮编: 430023

787 × 1092

1/16

27印张

4插页

550千字

2017年11月第1版

2017年11月第1次印刷

定价: 360.00元

本书如有印装质量问题 可找本社市场部更换

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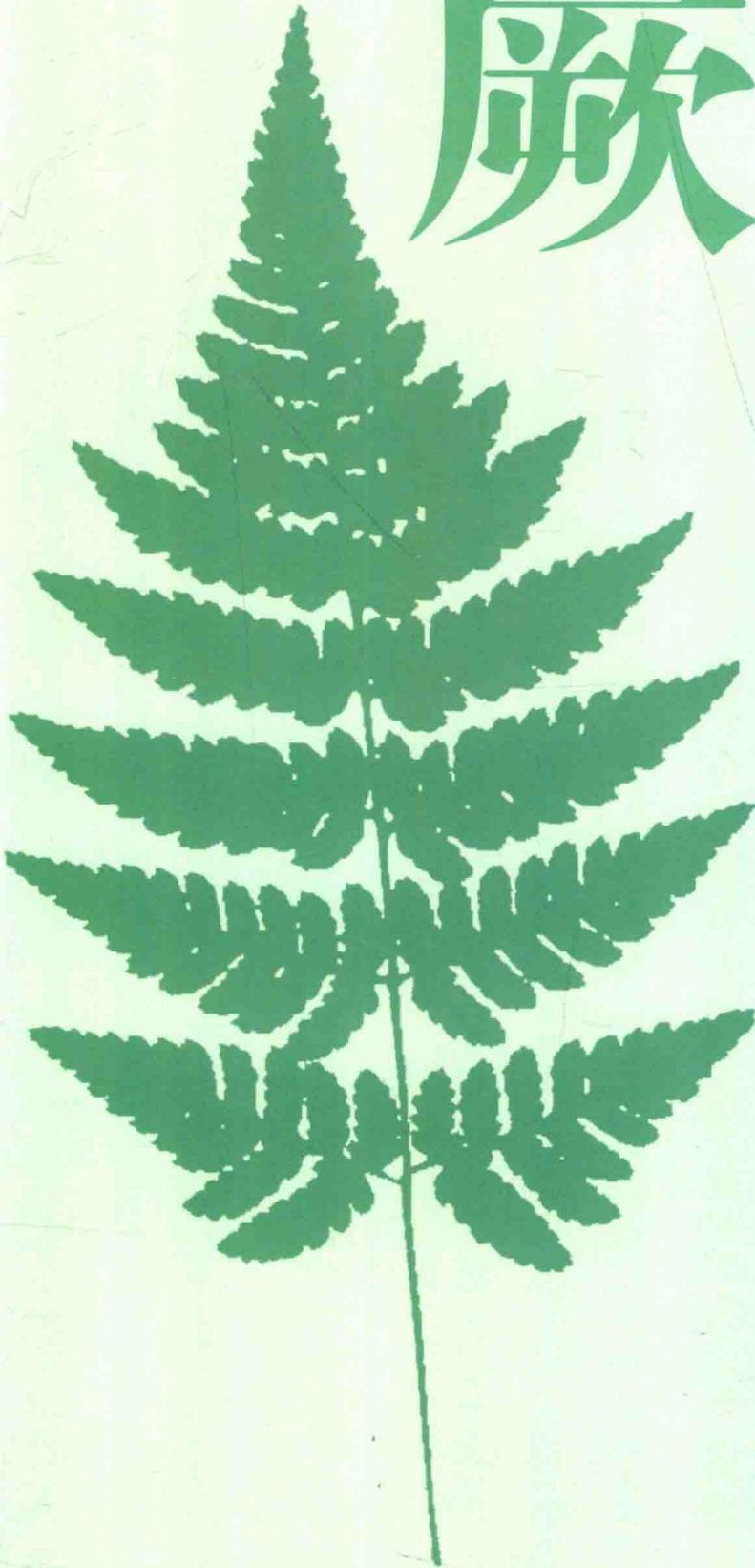
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蕨

类植物

PTERIDOPHYTE





Isoëtaceae

水韭科

Perennials, stems short, tuber-like, 2-3-lobed; roots forked. Leaves in a rosette, linear to subulate, each with 4 transversely septate, longitudinal, gas-channels and a central vascular strand; leaf base spoon-shaped, with a membranous margin and a delicate ligule on the adaxial surface where the leaf narrows. Sporangia develop near the leaf base, embedded, naked or covered with thin tissue (velum). Spores dimorphic, in separate sporangia. Gametophytes remain within the spore wall.

Submerged, emergent or seasonally submerged; heterosporous; diaspores mega- and micro-spores or fertiliaed megagametophytes, dispersed by water and in mud and by animals (in excreta of earthworms); some species sensitive indicators of water quality, stems readily eaten by waterfowl and rodents.

Isoëtes L. 水韭属

Description and distribution as family.

Isoëtes hypsophila Handel-Mazzetti

高寒水韭

Recognition

Aquatic herb, submersed or emergent. Root stock 2 or 3-lobed. Leaves spirally arranged, less than 5 cm long, ca. 1 mm wide at mid length, in tufts of 5 to 10, base expanded with membranous margins, peripheral fibers absent. Sporangia basal, oblong, 1.5×2.5 mm to 2×3 mm. Chromosomes: $2n = 22$.



Habitat

ponds and swamps with an altitude above 3000 m.

Distribution

Sichuan, Xizang, Yunnan.



Isoetes yunguiensis Q.F. Wang & C. Taylor

云贵水韭

Recognition | Aquatic herb, submersed or emergent. Rootstock 3-lobed. Leaves spirally arranged, widely spreading, 10-52 cm long, ca. 2.5 mm wide at mid length, in tufts of 20 to 70, flattened on upper side, rounded on lower side, base expanded with membranous margins, peripheral fibers absent. Ligule triangular, cuspidate, $1-2.5 \times 1.5-3.0$ mm. Velum rudimentary, covering only the distal edge of the sporangium. Sporangia basal, oval, $2-7 \times 1.5-4.5$ mm. Chromosomes: $2n = 22$.

Habitat | Marshy soil and small ponds along streams; 1300-1900 m.

Distribution | Guizhou, Yunnan (Kunming, Xundian).

