

云南高原地质断陷湖泊生态保护科研丛书



The geology of Yunnan plateau rift wetland
ecological protection research series

世界湿地濒危水鸟——紫水鸡

The world's endangered waterbirds purple gallinule

冯小平 著/摄

Xiaoping Feng



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阅 览

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自然的变幻湮灭，生命究竟有没有意义，并非我的责任。

Whether it's only a natural process of change, life has meaning or not.

但是怎样把这些不经意过程留给下一代，却是一个科研者的责任。

How to pass on these precious moments to the next generation is my responsibility.

——陈继海

Jihai Chen



序

世界濒危水鸟——紫水鸡，它的名字里虽然有个“鸡”，但是并不是鸡，属雉形目的鸟类，在中国分布地点十分有限，数量非常稀少。云南亚种为云南西部高原地质断陷湖泊湿地罕见的繁殖鸟，是一种非常珍贵的水鸟，被专家誉为“世界上最美丽的水鸟”。紫水鸡【学名*Porphyrio porphyrio*】是鹤形目秧鸡科鸟类，中型涉禽，共有13个亚种，体长约44厘米，嘴粗壮，鲜红色，短而侧扁，鼻沟浅而宽，鼻孔小而圆在鼻沟部下方，额甲宽大，后喙呈截形，橙红色，翅圆形；第二枚、第三枚初级飞羽最长，几乎等长，第一枚和第6~7枚初级飞羽等长。跗趾和趾长而有力，暗红色；能用脚趾抓住和操纵食物，这在秧鸡科中很特殊。两性同形。体羽大都为紫色或蓝色，尾下覆羽白色，翅和胸蓝绿色。在明媚的阳光下，蓝紫色的羽毛透出特有的辉光，格外美丽诱人。19世纪80年代濒危灭绝，2006年以前在中国史载记录只有15只，1988年被国家纳入濒危物种拯救计划。现所有品种已被列入“世界自然保护联盟”（IUCN）ver3.1:2009年鸟类红色名录。分布于中国的亚种列入中国2008年8月1日发布的《国家保护的有益的或者有重要经济、科学研究价值的陆生野生动物名录》。



Sequence—

The world's endangered birds—purple gallinule(*Porphyrio porphyrio*) have a name in the “chicken” but not birds of Galliformes Gallus. Their division place in China is very limited, and it's rare avis.

The Yunnan subspecies are rare breeding birds in western Yunnan plateau geological rift lake wetland, very precious, considered by experts as “the most beautiful birds in the world”.

Purple gallinule(*Porphyrio porphyrio*) belong to the Gruiformes Rallidae, medium-sized waders, a total of 13 subspecies. Its body is about 44 cm long, beak is stout, bright red, short and flat. The nasal groove is shallow and wide. The nostrils are small and round. There's a broad forehead below the nasal groove. The trailing edge is truncated, orange red, round-winged. The second and third primary plume are the longest. They are nearly equal. The first and 6th–7th primary plume are isometric. Tarsal toe and toe are long and strong, dark red. It can use the toes grasp and manipulate food, which is special in the family Rallidae. Both sexes are isomorphic.

The body plume is usually purple or blue. Undertail coverts are white. Wings and chest are blue green. In the bright sun, blue purple feathers with peculiar glow seem exceptionally beautiful and attractive.

In nineteenth century 80's purple gallinule is near extinction. Before 2006, history records contained only 15 in China. In 1988 it brought by state into the endangered species rescue plan. Now all species have been included in International Union for Conservation of Nature and Natural Resources(IUCN) ver 3.1 : 2009 bird red list. Located in China's subspecies entered in “National protected useful or important economic, of scientific research value terrestrial wild animal directory” issued by China in 1988.



紫水鸡的生活习性和栖息环境：紫水鸡常成群，一般5~10只，有分群栖息的习惯，多在晨曦和黄昏活动，白天喜欢藏匿于芦苇水草中，相互呼应，反复发出“咯—咯—”单一的嘶哑叫声。多数时间在漂浮植物上行走，尾羽会上下翘动，步伐缓慢、稳重，喜食浮水植物嫩芽和根须，不善飞翔，很少游泳，但也会短暂潜水捕捞食物，若无惊吓，不轻易离开驳岸浅滩入深水区。喜欢在芦苇丛中腰段筑巢攀爬，发情高峰期为每年4~7月间，繁殖产蛋5~6枚，属留鸟。但也有季节性和栖息地条件的变化局部迁移现象，在云南通常栖息于水生植物较多的浅水湖泊，以及河流、池塘、水坝、漫滩或沼泽湿地中，也偶见于城镇的湖泊、河流中的绿洲小岛，有时也游串与栖息地相邻的农田、草地、公园，昆明滇池等大水域地段也偶有发现。



Purple gallinule often live in groups, which generally contain 5–10 only. They roost in groups and move about in the morning and evening. In the daytime they like hiding in the reed and grass, mutually echo, repeatedly issue “ge-ge” single hoarse cries. Most of the time in the floating plants they walk on, their tails up and down warp, steps are slow, steady, like tender bud and fibrous roots of floating plants for food. They aren't good at flight and seldom swim. Sometimes purple gallinule can dive for food transiently. If there is no fear, they don't easily leave shoal into deepwater area. They like nesting and climbing in the need lumbar. Estrus peak for the year is from April to July. It lays 5–6 eggs, resident bird. But is also local migration with seasonal and habitat condition's change. In Yunnan purple gallinule inhabits in shallow lakes with more water plants, as well as rivers, ponds, dams, floodplains or marsh wetland. We also meet them in the lake, oasis island in the river of town. Sometimes they move into farmland, grassland, the park adjacent habitat. In Dianchi Lake of Kunming and other large waters they also can be found occasionally.



其栖息条件垂直分布海拔高差2000米，活动面积大，有生活固定的依赖性，有时也迁徙相邻较近水域。2010年，云南省有关部门在考察淡水动植物多样性现状时，在大理的洱海、洱源的西湖、鹤庆草海等高原断陷湖滨湿地又发现了濒危灭绝多年的涉禽鸟紫水鸡10多只。几年里随生态保护事业的发展，生态环境的恢复改善，人民保护意识的提高，在云南西南部的紫水鸡种群估计已增至上百只。而且这些美丽的高原水乡，也成为了极具有观赏价值珍稀保护物种“紫水鸡”在我国最大的栖息分布地。



Its habitat for vertical distribution of elevation is above sea level 2000 meters, a large active area. They depend on fixed living. Sometimes they migrate to adjacent waters. In 2010, the departments concerned of Yunnan Province investigated present situation of freshwater plant and animal. Aaaathey found over ten purple gallinule, which were near extinction many years ago, in lakeside wetland of plateau rift lakes Erhai of Dali, West Lake of Eryuan and Caohai of Heqing. In recent years ecological protection is developing; ecological environment is reinstating; people's protective consciousness is enhancing. Now, in thw southwest Yunnan, the purple gallinule swamphen population is estimated to have increased to hundreds of. And the beautiful plateau regions have become the largest habitat in China of "purple gallinule", which is rare and protected specy of great ornamental value.



由于紫水鸡习性易受惊扰，难以接近。此次，经多方努力，拍摄出版的《世界濒危水鸟——紫水鸡》一书，实属不易，是珍稀鸟类摄影的难得之作。旨在用摄影家和景观师的特殊视觉，把濒危保护物种呈现给人类，让你感悟大自然的神奇与壮美，走进自然，了解自然，敬畏自然，保护自然，去深切地体会生物多样性保护的实质和真谛之所在。同时对生态保护科学研究提供了简明扼要、清晰直观的第一份必不可少的专项影像资料，也是爱鸟、摄鸟、研究鸟，业余和专业者最好的鉴别收藏图册。

冯小平 2012年5月



The purple gallinule is easily disturbed and inaccessible. This time, we spared no efforts to shoot and publish “The world's endangered waterbirds—Purple gallinule” . It's not easy. It is rare for rare birds photography. The book presented endangered protective species to humanity by photographers' and observers' special view. You can feel the nature's magic and magnificent, walk into nature, understand nature, reverence nature, protect nature, deeply understand the essence of biological protection.

At the same time, the book provides simple, clear and visual image data for ecological protection and science research. It is also the best identification, collection album for the amateurs and professionals who love birds, shoot birds and research birds.

Feng Xiaoping 2012.05



1

属性类别

Attribute class

世界濒危水鸟紫水鸡，属于鹤形目——秧鸡科。

The world endangered Waterfowl Purple Gallinule belongs to Rallidae Gruiformes.





