研究论文

太湖渔业发展及区域设置与功能定位

谷孝鸿^{1,2},白秀玲¹,江南¹,范成新¹,程建新³,吴林坤³,曹萍³,王晓蓉²

- 1.中国科学院南京地理与湖泊研究所,南京210008
- 2. 南京大学环境学院, 南京210093
- 3. 江苏省太湖渔业管理委员会办公室, 苏州215004

收稿日期 2005-9-23 修回日期 2006-5-6 网络版发布日期: 2006-7-25

摘要 渔业是太湖的重要功能之一。太湖渔业主要以自然捕捞和围网养殖为主。目前太湖自然渔业捕捞强度及东太湖湾围网养殖的超常规发展,给湖泊生物资源带来巨大影响。依据太湖生物资源现状和分布,借助太湖遥感解译图像,定位设置太湖各类生物资源恢复与保护的功能区域,包括东部的资源保护核心区、缓冲区(湿地生态景观带)和西部的生态恢复区等。其管理目标是太湖水环境、渔业资源和生物多样性及环湖湿地、自然景观的保护,加快太湖生态恢复进程,促进旅游业和渔业的健康发展,实现太湖渔业资源的有序利用和可持续发展。

关键词 太湖; 渔业; 区域设置; 功能定位

分类号 0143

Fishery development, regional classification and function all positioning of Lake Taihu

GU Xiao-Hong 1,2 , BAI Xiu-Ling 1 , JIANG Nan 1 , FAN Cheng-Xin 1 , CHENG Jian-Xin 3 , WU Lin-Kun 3 , CAO Ping 3 , WANG Xiao-Rong 2

- 1. Nanjing Institute of Geography & Limnology, Chinese Academy of Science s, Nanjing 210008, China;
- 2. Nanjing University, Nanjing 210093, China;
- 3. Lake Taihu Fishery Management Commission of Jiangsu Pvovince, Suzho u 215004, China

Abstract Lake Taihu is the third largest freshwater lake in China, located at 119°53′45″~120° 36'15E and 30°55'42"~31°31'55N with an area of 2428 km2 and the average water depth o f 1.89m. It is the most typical large shallow lake in the lower reaches of Yangtze River, and play s the important roles in the watershed such as the drinking water source, flood control, fish cultur e, irrigation and tourism. The fishery is one of important functions in Lake Taihu, which includes f ish catching and enclosure culture. In the recent twenty years, over-fishing and the large-scale exp ansion of the enclosure culture have significantly affected the biological resources and led to wate r quality deterioration in Lake Taihu. Based on the remote sense photographs of Lake Taihu, th e area of aquaculture in East Taihu Bay is estimated to be 10647.02hm2 in 2003, occupied 79.2 5% of the total area of the Bay. Meanwhile, according to the current status, the potential yield esti mates of the biological resources in Lake Taihu is 113.93 kg/hm2, i. e. total annual catch of 2766 2 t. Based on the nutrient budget of the lake and nutrient uptake ability of macrophytes, the suitabl. e area of fish enclosure culture is estimated to be less than 2094hm2 in East Taihu Bay. For cra b enclosure culture, the area is 3210 hm2, meanwilde a herbivorous fish culture of 281hm2 is need. ed for taking up the aquatic plants from crab enclosure. The bases of fishery region classification of Lake Taihu are the lake environment, the bioresourc

e distribution and the function. Lake Taihu can be divided into three functional regions which include the eastern core area for resource protection, the buffer area with natural wetlands, and the we stern restoration area. The eastern core area for resource protection includes the protection are a of fish reproduction, the protection area of snail and cor

扩展功能

本文信息

- ▶ <u>Supporting info</u>
- ▶ [PDF全文](0KB)
- **▶[HTML全文]**(0KB)
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ► Email Alert
- ▶文章反馈
- ▶浏览反馈信息

相关信息

▶ <u>本刊中 包含"太湖;"的 相关文</u>章

早

▶本文作者相关文章

- 谷孝鸿
- · 白秀玲
 - 江南
- 范成新
- 程建新
- 吴林坤
- 曹萍
- 王晓蓉

bicula resources, the stocking area of fish fingerling, the protection area of biodiversity, the forbidi ng area of fishing gear fixation and the enclosure culture area, and the total area is 437.6km2. I n western wetlands and the partial area of East Taihu Bay destructed by enclosure culture, it is im portant to establish a restoration area, having an area of 282.5km2. This regional classification is t o help improve the lake's water quality and protect the fishery resources, biodiversity, and the nat ural wetlands. In order to promote the fishery development of Lake Taihu, the ecological fisher y management countermeasures were proposed, including controlling the types of fishing gear an d fishing intensity, adjusting the fishing season, controling stocking fish species. Regarding to the e nclosure culture in East Taihu Bay, the important measures are to strictly control the scale of enclo sure culture, select right culture species, and incease the culture proportion of high valued aquati c species and reduce the pollution from the culture. The ultimate goal of regional classification an d functional positioning of Lake Taihu is to attain rationale and sustainable utilizations of the fisher y resources in Lake Taihu.

Key words Lake Taihu fishery region division function positioning

通讯作者 谷孝鸿 xhgu@niglas.ac.cn