

金門地區淡水魚類群聚現況調查與保育策略規劃
(Project of survey and conservation strategy of freshwater fish
community in Kinmen Island, Fujian Province)

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中文摘要

金門為一鄰近中國大陸之島嶼，位處於福建省九龍江口，其淡水魚魚種組成在中國大陸水生動物拓遷入台灣水系之機制上，具有實質的學術意義。另一方面，本計畫目地乃是為了能夠持續建立島上魚類相及其生態現況之基礎資訊，對於原生淡水魚物種群聚特性或族群，也是在此島上種化之學術探討方面上，相當重要。本計畫期程於民國一百年間，每季進行一次的全島主要溪流、河口、湖庫淡水魚類之調查。調查期間以各種網具及電捕等方法，蒐集全島各地之溪流水庫的淡水魚類群聚資料，並記錄現場水質的基本環境因子。

本計畫共完成 24 個樣站的魚類族群調查，包括 8 個固定樣站和 16 個非固定樣站，本年度共計錄有淡水及河口魚類 43 種，其中純淡水魚有 10 種，包括大肚魚、尼羅口孵魚以及吉利慈鯛等 3 種的外來入侵魚類。本年度調查共新紀錄到 14 種魚類，包括有鰻鱺科的百吉海鰻、鯡科的黃小沙丁、鯛科的黑鯛、鱒科的四線雞魚、鰕虎科的短吻閩鰕虎、短斑臥齒鯊、大彈塗魚、中國烏塘鱧、眼絲鰻鯊、雷氏斑點鰕虎、雙斑叉舌鰕虎、爪哇擬鰕虎、青彈塗魚、虎齒楊氏鰕虎等。若與以往的報告文獻做比較，累計已記錄的淡水及河口魚類共有 65 種，而原生種純淡水魚的種類及族群範圍，都有減少的趨勢。

另外值得注意的是，鯉科原生魚類史尼氏小鮑，已在這五年內未曾有再發現之記錄，其野外族群現況很不樂觀。已列入保育類名單中的大鱗梅氏鱸，在金門地區的分佈範圍仍然相當侷限，在本調查年度中秋冬季族群有大量減少趨勢，需要進一步進行原生魚類族群結構調查或長期監控，並且儘速推行棲地改善或人工復育研究工作，讓這種珍貴的金門原生魚類能夠永續生存下去。

關鍵詞：大鱗梅氏鱸、生物地理分佈、金門、淡水魚、魚種組成

ABSTRACT

The Kinmen island, a small island locating around the river mouth of Ju-long-Jiang river basin, Fujian Province. The survey of inland-water fish fauna is very important role for realizing the dispersal pattern for inland-water fishes between the two provinces (Taiwan & Fujian) of the Formosan Strait. The aim of this project is to continuously re-survey of species diversity of inland-water fish fauna and speciation history of academic research.

The survey within 2011 would cover a variety of habitats including streams, estuaries, ponds and dams and the sampling frequency is taken placed for each season. Different fishing methods including netting and electro-fishing were conducted and including the measurements of aquatic important environmental parameters.

Totally 24 sampling sites have been processed and 43 species of fishes collected including 10 primary freshwater fishes (with 3 invasive species) in this year. Up to 65 species of fishes recorded in inland-waters of Kinmen which 14 species have just newly recorded by this 2011 field expedition.

Another important thing is *Puntius snyderi* have been disappeared over 5 years, it may already phased to very critical population size or been extinct in this island. The conservation list of cyprinid fish: *Metzia memsebrina* is also very unstable for population size and dramatically declined especially in autumn and winter. It would be very essential for the establishment of conservation strategy for protecting the native cyprinids of the island.

KEY WORDS : biogeography, fish composition, inland water fish, Kinmen, *Metzia memsebrina*