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NEW RECORD OF *GUDUSIA VARIEGATA* (DAY, 1869) (CLUPIEDAE: TELEOSTEII) FROM (SINDH) PAKISTAN

N.T. Narejo and S.I.H.Jafri.

Department of Fresh water Biology and Fisheries, University of Sindh, Jamshoro 78060 Sindh, Pakistan.

Abstract

Gudusia variegata a fresh water clupied, has been recorded for the first time in Pakistan from Kinjhar Lake (Distt: Thatta) Sindh. The morphometric features of this fish have been compared with sympatric species of the same family. Gudusia chapra. Marked differences have been found in length, girth, and anal fin. This new record extends the geographical distribution of G.variegata upto the western limits of Indian sub-continent.

Introduction

Isolated reports are available regarding the fresh water fish fauna of Pakistan (Qureshi, 1965 and Mirza 1975, 1980). A list of 35 fishes belonging to 10 families, recorded from Manchar Lake (Distt: Dadu) was published by Prashad and Mukerji (1930). Similarly Siddiqui, *et al.*, (1973) provided a check-list of 46 species of fish from Kinjhar (Kalri) Lake (Distt: Thatta). Recently Jafri (1997) has recorded 31 species of fish from Bakar Lakes complex of proposed Chotiari reservior (Distt: Sanghar).

All the above reports have recorded only one species of family *clupiedae, Gudusia chapra*. Here, we are presenting the new record of *Gudusia variegata* from (Sindh) Pakistan.

Synonymy

1869	*Clupea variegata* (Day) Fish India, Proc. Zool. Soc, P.623.
1968:	*Gudusia godanahiai* (Srivastava) Fishes of Eastern Uterpardesh, P.6, Fig. 4.
1971:	*Gudusia variegata*. (Talwar and White head) Bull. Brit. Mus. Nat. Hist. 22 (2): 59 - 85.

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1981: *Gudusia variegata* (Jayram) Hand book. Fresh water fish of India, P.40.

Local names in India = Tikulia, Suhia

Local name in Pakistan = Palli

Material examined

The fish for this study were collected from Kinjhar Lake Distt. Thatta during September-November 1997. 101 specimens of *G.variegata* and 350 specimens of G. chapra were collected from fisherman's catch and were brought to the laboratory for morphometric counts.

Rsults

These results compriseds of observations and morphometric measurements of 101 specimens of *Gudusia variegata*, which have been compared with 350 specimens of G.chapra (Table. I).

(a) Colour

Silvery white, 8-10 black vertical bars present on the dorsal side of the body, one black humoral spot (Fig. I). No black bars present in *G.chapra*.

(b) Morphology

Body laterally much compressed, abdomen serreted with distinct scutes, abdominal profile (Girth) more convex than. *G.chapra* (Table. I).

Length - Girth relationship:

Calculated with least square methods, the equations of both the species are as under:

G.variegata = $\text{Log } G = -0.5 + 1.28 \times \log L$

G. chapra = $\text{Log } G = -0.2 + 1.0 \times \log L$

Mouth terminal, slightly superior in position, teeth absent on Jaws, gape of the mouth reaches upto middle of eye orbit.

Anal fin rays and length higher in *G. variegata* (Table. I)

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Fig. 1 *Gudusia variegata*, Palli (upper) and Gudusia chara, Palri (lower).

anal fin and number of anal fin rays. The presence of G. variegata has been recorded for the first time from Pakistan.

Day (1889) recorded *Clupea* variegata from river Irrawaddi and its branches and thought that it is the Burmese representative of *Clupea chapra.* Similarly Munshi and Srivastava (1988) while working on natural history and systemetics of fishes of India, have studied many species of G. variegata, all collected from Assam, Bihar and Bengal.

Published reports on fresh water fishes of Punjab, (Mirza and Sharif, 1996), Azad Kashmir (Rafique and Qureshi, 1997, N.W.F.P (Butt, 1986), Balochistan (Mirza, 1972) and Sindh (Siddiqui et al 1973, Ahmed and Khan, 1974 and Jafri, 1997) have not found *G. variegata* any where in Pakistan. Present report on the occurrence of *Gudusia variegata* from (Sindh) Pakistan extends the geographical distributiuon of this species right accross Penisular India upto southern limits of Pakistan.

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