

**PERUBAHAN HASIL TANGKAPAN LESTARI IKAN PELAGIS
di LAUT JAWA dan SEKITARNYA**
*(The Change of Sustainable Yield of Pelagic Fishes in Java Sea and
Its Surrounding Waters)*

Oleh:

Suherman Banon Atmaja¹⁾ dan John Haluan²⁾

ABSTRACT

Pukat cincin fleet was introduced in Indonesia in the year 1970 which north coast of central Java were playing an introduction role of the effective gear on small pelagic fish exploitation. Historical data on the fishery showed the development of the exploitation of small pelagic resources became offshore extending their fishing ground toward the eastern part of the Java Sea to the Makassar Strait related to dynamic of its fishery which represented through larger fish hold capacity, enlargement of the fishing areas, rapid changes of the fishing strategy. The study described the change of pelagic fishes stock based on the existing data from the development of pukat cincin fishery during 1976 - 2001 and derived to the estimation of the current status of pelagic fish resources in the Java Sea and its surrounding waters. The results showed that the extension fishing ground and the change of fishing strategy have proportionally resulted to the increasing biomass of about 2 times higher than the prior period and C_{MSY} from 54,800 tons in the 1985 - 1990 to 69,900 tons in the 1991 - 2001. Application of surplus production model on the period of 1985 - 1990 indicated that the levels of exploitation had exceeded the maximum sustainable yield (E_{MSY} and C_{MSY}). The 1991 - 2001 and 1985-2001 periods indicate that the exploitation of pelagic fishes has not reached the level of fishing effort of MSY and the average catch during 1991 - 2001 lower than C_{MSY} .

Keyword: sustainable yield, pelagic fish, Java Sea

ABSTRAK

Alat tangkap pukat cincin sebagai alat utama pemanfaatan sumberdaya ikan pelagis kecil pertama kali diperkenalkan di Indonesia pada tahun 1970

¹⁾Peneliti pada Balai Riset Perikanan Laut, DKP

²⁾Staf Pengajar Departemen Pemanfaatan Sumberdaya Perikanan, FPIK- IPB