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紀伊半島南西岸におけるイサキ, *Parapristipoma trilineatum* の成熟と性比

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**Maturation and Sex Ratio of Three-line Grunt, *Parapristipoma trilineatum* along the Southwestern Coast of Kii Peninsula, Japan**

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**摘 要**

紀伊半島南西岸におけるイサキの成熟と性比について検討した。生殖腺指数の経月変化より、当海域の産卵期は4月から7月（盛期は5月と6月）であり、他海域での報告より若干早かった。また雌は1歳では全く成熟せず、2歳より全個体が成熟し、雄は1歳で一部の個体が成熟し、2歳より全個体が成熟することが示された。性比の経月変化からは5、6月に雌が多く、7、9、10月に雄が多く認められた。5月は200～239mm（2、3歳魚主体）、6月は200～219mm（2歳魚主体）の尾叉長区分で雌が多く認められ、またこれらは釣りや定置網の標本に基づいていることから、産卵回遊の際には、2、3歳魚を主体に雌雄の行動に何らかの差異があることが推察された。各月の標本をまとめると、尾叉長190～219mmと2歳魚で雌が多く、尾叉長300mm以上と8歳魚以上で雄が多く認められた。

**Summary**

Maturation and sex ratios were examined in three-line grunt, *Parapristipoma trilineatum*, occurring along the southwestern coast of Kii Peninsula, Japan. Monthly changes in gonad index (GI) demonstrated that the spawning season in this region, from April to July peaking in May and June, was slightly earlier than previously reported for other regions. GI values indicated that no females at age 1 year and all females over 2 years were mature, compared with some males at age 1 year and all males over 2 years. The sex ratio was female-biased in May and June, but male-biased in July,

September and October. Because the female-biased sex ratio in May was represented by fish in the 200–239mm fork-length class (mainly 2–3 years old) and that in June by the 200–219mm fork-length class (mainly 2 years old), together with the fact that these samples were caught by angling and set net, there seemed to be a behavioral difference between the sexes (mainly in 2–3 year-old fish) during their spawning migration. Based on whole samples, the sex ratio was female-biased in the 190–219mm fork-length class (and 2 year old fish) and male-biased in the greater than 300mm fork-length class (and fish older than 7 years).