

Reproduction of



In the south-west lagoon of New Caledonia, the first sexual maturity size is 45 mm for *Annachlamys flabellata* (Bernadi), 60 mm for *Comptopallium radula* (L.) and 50 mm for *Mimachlamys gloriosa* (Reeve). The global sex-ratio was not significantly different from 1:1 for *C. radula* unlike *A. flabellata* and *M. gloriosa* (1.3:1 for two species). The significantly greater mean size of females suggests a protandric sex reversal. The reproductive cycle was studied monthly for two years for *M. gloriosa* and one year for *C. radula* and *A. flabellata*, then weekly over periods of 12 months for *M. gloriosa* and 6 months for *C. radula*. Reproduction of the three species occurs throughout the year with a maximal activity during the warm season. *M. gloriosa* and *C. radula* are capable of spawning several times a month. Fluctuations of reproductive intensity are related to temperature and salinity fluctuations.

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Obtenir le document : EDP Sciences

Mots clés : Bivalve, Pectinid, Pacific, New Caledonia, lagoon, reproduction, Bivalve, Pectinidé, Pacifique, Nouvelle-Calédonie, lagon, reproduction

Thème (issu du Text Mining) : MILIEU NATUREL, FAUNE

Date : 1994-01-15

Format : text/xml

Source : <https://doi.org/10.1051/alr:1994005>

Langue : Anglais

Télécharger les documents : <https://www.alr-journal.org/10.1051/alr:1994005/pdf>

Permalien : <https://www.documentation.eauetbiodiversite.fr/notice/reproduction-of1>

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