1. Record Nr. UNISA996208220003316

Titolo	Lobsters [[electronic resource]] : biology, management, aquaculture and fisheries / / edited by Bruce F. Phillips
Pubbl/distr/stampa	Oxford, UK ; ; Ames, Iowa, : Blackwell Pub., 2006
ISBN	1-281-31216-9 9786611312169 0-470-76149-0 0-470-99596-3 0-470-99595-5
Descrizione fisica	1 online resource (536 p.)
Altri autori (Persone)	PhillipsBruce F
Disciplina	595.384
Soggetti	Lobsters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	LOBSTERS: BIOLOGY, MANAGEMENT, AQUACULTURE AND FISHERIES; Contents; Contributors; Preface; Chapter 1 Growth and Development: Understanding and Modelling Growth Variability in Lobsters; 1.1 Introduction; 1.2 Development, growth patterns and the moult; 1.2.1 Larvae and postlarvae; 1.2.2 Juveniles and adults; 1.2.3 Moult stages and endocrine control; 1.3 Measuring growth; 1.3.1 First moult in captivity; 1.3.2 Tagging; 1.3.3 Analysis of size-frequency distributions; 1.3.4 Physiological age markers; 1.3.5 Radionucleotide ratios to determine intermoult periods; 1.3.6 Indicators of growth potential 1.4 Environmental influences on growth and maturity1.4.1 Temperature; Larvae and postlarvae; Juveniles and adults; 1.4.2 Light and photoperiod; Larvae and postlarvae; Juveniles and adults; 1.4.3 Food limitation; Larvae and postlarvae; Juveniles and adults; 1.4.4 Density effects; Larvae and postlarvae; Juveniles and adults; 1.4.5 Space and shelter; 1.4.6 Behavioural and social conditions; 1.5 Modelling growth; 1.5.1 Continuous growth models; Modelling growth in weight; 1.5.2 Moult process models; Moult probability and intermoult duration; Size increase per moult; Mean growth 1.5.3 Scaling timeGnomonic intervals; Physiological time units; 1.5.4

Modelling variability in growth; Distributed delay models; Simulation and matrix representations; Degree-day models; 1.6 Conclusions and future directions; References; Chapter 2 Reproduction; 2.1 Introduction; 2.2 Reproductive morphology; 2.2.1 General patterns; 2.2.2 Sperm delivery and storage; 2.3 Maturation; 2.3.1 Indicators of maturation; 2.3.2 Female size at onset of maturity; 2.3.3 Male size at onset of maturity; 2.3.4 Variation in SOM among species; 2.3.5 Variation in SOM among populations
2.4 Timing and duration of female receptivity2.4.1 Importance for the mating system; 2.4.2 Link to moulting schedules; 2.4.3 Environmental influences; 2.4.4 Daily timing; 2.5 Mate attraction, recognition, choice and competition; 2.5.1 Finding a mate; 2.5.2 Olfactory, visual, auditory and tactile cues; 2.5.3 Mate recognition; 2.5.4 Operational sex ratio; 2.5.5 Indicators of mate quality; 2.5.6 Courting and copulation; 2.6 Copulation and sperm transfer and storage; 2.6.1 Copulation and ejaculate size; 2.6.2 Sperm availability; 2.6.3 Sperm storage; 2.7 Fertilisation and egg-laying
2.7.1 Polyandry2.7.2 Sperm to egg ratios and non-mating; 2.8 Egg brooding and hatching; 2.8.1 Partitioning reproductive effort; 2.8.2 Egg loss; 2.8.3 Brooding migrations; 2.9 Lobster mating systems and exploitation; 2.9.1 Breeding population size structure; 2.9.2 Reproductive responses to exploitation; 2.9.3 Sex ratio; 2.9.4 Sperm limitation and depletion; 2.9.5 Longer-term change; 2.10 Conclusions; References; Chapter 3 Behaviour; 3.1 Introduction; 3.2 Sensory biology and regulation of behaviour; 3.2.1 The senses; 3.2.2 Hormones and neuroendocrine control; 3.2.3 Activity rhythms
3.2.4 Environment and behaviour

Sommario/riassunto

Lobsters are one of the most commercially important groups of animals harvested and farmed throughout the world. Bringing high prices on the market and the table, the results and yields of farmed species has seen continued growth. Under the Editorship of Bruce Phillips an international team of authors provide exhaustive coverage of these fascinating creatures, stretching from growth and development to management and conservation, providing the reader with: Key information for lobster farmers and harvestersOrganisation of the species by genera for ease of use<br