

MSL 612: Early Life Histories of Marine Invertebrates

Instructor: Dr. Sarah M. Hardy

Class meeting times: T/Th 2:00 – 3:30

Prerequisites:

Recommended:

Course Description

group discussions

midterms

final exam

Homework assignments

Group Discussions

maximum

[A collection of review papers that summarize many of the topics we will cover in this course. Although these papers are

[A developmental biology text with more detailed information on early embryology, including gene expression, cell communication, and other topics of potential interest.]

[A beautiful illustrated atlas of larval forms organized by phyla, with good general information about the life-cycle of each group.]

Student Presentations:

assign a relevant paper

Support and Disabil

Recommended Reading List

Larval Forms

Marine Invertebrate Larvae

Bulletin 184

Zoology 79

156

Science 305

Bull 214

Biological Journal of the Linnean Society 54

Marine Biology 10

Osedax

Osedax

Osedax roseus

The Origin and Evolution of

Ecology of

Biological

Pteraster tesselatus

Canadian Journal of

Marine Biology

Biol

Evolution 46

205 *Biological Bulletin*

Geology 33

50 *Evolution*

Trends in Ecology and Evolution 17

Transactions of the Royal Society B: Biological Sciences 363 *Philosophical*

Science 67 *Bulletin of Marine*

Evolution 32

Annual Review of Ecology and Systematics 16

American Zoologist 30

Systematics 24 *Annual Review of Ecology and*

Science 81 *Bulletin of Marine*

Evolution 51

Echinoderm Studies

Oceanologica Acta 19

Journal

of Experimental Marine Biology and Ecology 237

Ecology of Marine Invertebrate

Larvae

Marine Ecology 27

American Naturalist 148

American Naturalist

156

Ecology 84

Ecology 89

Oceanography and Marine Biology. An Annual Review 46

Strongylocentrotus Journal of Experimental Marine Biology and Ecology 352

American Naturalist 150

Biological Journal of the Linnean Society 60

Biol Bull 200

Biol Bull 216

Trends in Ecology &

Evolution 13

*Macrophiothrix
Biological Bulletin* 209

Marine Biology 153

Evolutionary Ecology Research 9

Evolution 42

American Naturalist 108

edulis Mechanisms of Ageing and Development 130

107

Mytilus
American Naturalist

Body size and the cost of brooding

Cancer setosus
Marine Ecology Progress Series 251

Biological Bulletin 190

Ecology Letters 3

Marine Ecology-Progress Series 309

The American Naturalist 141

Journal of Experimental Biology 210

American Naturalist 119

Asterina phylactica

American Naturalist 123

Journal of the Marine Biological Association of the UK 75

Gametogenesis, spawning and fertilization

Heredity, 2

Integrative and Comparative Biology 46

Proceedings of the National Academy of Sciences 105

Bulletin of Marine Science 39

Proceedings of the Biological Society of Washington 107

Invertebrate Biology 114

Rhithropanopeus harrisi
Experimental Marine Biology and Ecology 357

Journal of
Ecology of Marine

Invertebrate Larvae

**

Sperm competition and sexual selection

American Naturalist 165

The

Integrative & Comparative Biology 46

Ecology of Marine Invertebrate Larvae



Ecology 79

Limnology and Oceanography 50

Science

Proceedings of the Royal Society B-Biological Sciences 275

Marine Ecology Progress Series 313

Marine Biology 153

Evolution 49

Ecological Applications 13

Bulletin of Marine Science 70

Marine Ecology Progress Series 25

Global Ecology and Biogeography 16

Deep Sea Research Part A. Oceanographic

Research Papers 32

Ecology 84

Integrative and Comparative Biology 46

Proceedings of the National Academy of Science 104

Integrative and Comparative Biology 46

Limnology and

Oceanography 52

American Naturalist 165

Marine Biology 149

Ecological Applications 13

Ecological Monographs 75

Biol Bull 216

Biogeosciences

Discussion 6

Littorina obtusata *Aquatic Biology*

5

ICES Journal of Marine Science 65

Science 305

Limnology and Oceanography 49

Limnology and

Oceanography 54

Marine Ecology Progress Series 373

Mytilus galloprovincialis *Aquatic Biology* 4