

**SIOB 270 – Pelagic Ecology  
Winter 2020**

Mark Ohman  
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Lectures: Tu/Th 11-12:20 pm 300 Vaughan Hal  
Discussion section: Mon. 1:00-2:30 pm 300 Vaughan Hall  
Course web site: <https://TritonEd.ucsd.edu>

| <u>Date</u>   | <u>Day</u>                | <u>Lecturer</u> | <u>Topic</u>   |
|---|---------------------------|-----------------|--|
| <b>I. Changing Pelagic Ecosystems</b>                       |                           |                 |  |
| 7-Jan   | Tu                        | Ohman           | Multi-Decadal Change   |
| 9-Jan   | Th                        | Ohman           | ENSO and Interannual Perturbations                                     |
| <b>II. Spatial Pattern</b>                                  |                           |                 |  |
| 14-Jan  | Tu                        | Ohman           | Spatial Pattern  |
| 16-Jan  | Th                        | Kahru           | Primary Production and Remote Sensing                                  |
| 21-Jan  | Tu                        | Ohman           | Secondary Production   |
| 23-Jan  | Th                        | Allen           | Deep Chlorophyll Maximum Dynamics                                      |
| 27-Jan  | M - in lieu of Discussion | Ohman           | Vertical Structure and Vertical Migrations                             |
| <i>1<sup>st</sup> paper due 30 Jan</i>                      |                           |                 |  |
| 28-Jan  | Tu                        | Ohman           | Pelagic Biodiversity and Biogeography - metazoans                      |
| 30-Jan  | Th                        | Allen           | Pelagic Biodiversity and Biogeography – viruses & bacteria             |
| 4-Feb   | Tu                        | Allen           | Pelagic Biodiversity and Biogeography – unicellular eucaryotes         |
| 6-Feb   | Th                        | Barton          | Trait-based approaches   |
| <b>III. Pelagic Biodiversity</b> (and underlying processes) |                           |                 |  |
| <b>IV. Food Webs</b>  |                           |                 |  |
| 11-Feb  | Tu                        | Ohman           | Trophic Cascades   |
| 13-Feb  | Th                        | Allen           | Co-occurrence Networks and Food Web Stability                          |
| 18-Feb  | Tu                        | ----            | (Ocean Sciences 2020)  |
| 20-Feb  | Th                        | ----            | (Ocean Sciences 2020)  |
| 24-Feb  | M - in lieu of Discussion | Sydeman         | Higher Predators   |
| <i>2<sup>nd</sup> paper due 27 Feb</i>                      |                           |                 |  |
| 25-Feb  | Tu                        | Ohman           | Biogeochemical Cycles I  |
| 27-Feb  | Th                        | Allen           | Biogeochemical Cycles II - Bottom up Controls & Microbial Interactions |
| 3-Mar   | Tu                        | Allen           | Selective Feeding – Chemical Signaling                                 |
| 5-Mar   | Th                        | Allen           | Meso- and Bathypelagic Processes                                       |
| <b>VI. Other</b>  |                           |                 |  |
| 10-Mar  | Tu                        | Checkley        | Fisheries Oceanography   |
| 12-Mar  | Th                        | Allen           | Paleo Perspective  |
| <i>3<sup>rd</sup> paper due 12 Mar</i>                      |                           |                 |  |
| 19-Mar  | Th                        |                 | Take home final exam due   |

**HOLIDAYS:**

Mon., 20 Jan. (MLK)

Mon., 17 Feb. (Presidents' day)