Syllabus

Special Topic: Biogeochemical Exploration of the Major Ocean Basins

Instructor: Dennis Hansell (Marine and Atmospheric Chemistry; dhansell@rsmas.miami.edu; 305-421-4078)
Credits: 2
Level: 500
Grading: 25% for each of two special project presentations; 50% for the final exam.
Assignments: Students will be assigned problem sets after class meetings.
Meeting time: One 2-hour meeting each week. Meeting day/time to be arranged based on students schedules/availability.
Special Project Presentations: Students will investigate and present findings/interpretations on a unique biogeochemical feature within a major ocean basin. The feature and basin will be selected by the student, in consultation with the instructor. The basin must be one of those recently explored in class.

Class Meetings

1) First meeting Wed., August 22. Introduce course and Ocean Data View
2) Week of Aug 27: Students learn Ocean Data View
3) Week of Sep 3: ...continued from previous week
4) Week of Sep 10: Global ocean hydrographic features (T/S and density space, nutrient distributions, etc.) (World Ocean Atlas data)
5) Week of Sep 17: The Atlantic Ocean (WOCE, CLIVAR, JGOFS data)
6) Week of Sep 24: ...continued from previous week
7) Week of Oct 1: The Pacific Ocean (WOCE, CLIVAR, JGOFS data)
8) Week of Oct 8: ...continued from previous week
9) Week of Oct 15: Students present special project findings
10) Week of Oct 22: The Arctic Ocean (SBI data)
11) Week of Oct 29: ...continued from previous week
12) Week of Nov 5: The Indian Ocean (WOCE and JGOFS data)
13) Week of Nov 12: The Southern Ocean (WOCE and JGOFS data)
14) Week of Nov 19: ...continued from previous week
15) Week of Nov 26: Students present special project findings
16) Week of Dec. 5: Final Exam