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SIO 244 SHAPE AND STRUCTURE OF THE OCEAN FLOOR
Spring 2017

APRIL 4, 6	Introduction, with a historical perspective on techniques, and a review of plate driving forces, and plate cooling consequences
11,13	Plate flexure, fracture, and welding
18,20	The varieties of active and inactive risecrests
25,27	Segmentation of risecrests and shearing at transform and nontransform offsets
MAY 2, 4	Rise-flank fracture zones, normal, and oblique
9,11	Patterns of rise-flank volcanism Growth, collapse, and destruction of oceanic volcanoes
16, 18	Guyots, atolls, and drowned atolls Deep-sea hydrothermal deposits
23, 25	Regional patterns of abyssal sedimentation Deep sea erosion, causes and results
MAY 30, JUNE 1	Mud drifts and their bedforms Turbidity currents and deep-sea channels
JUNE 6, 8	Abyssal fans and plains Shape, structure, and history of the Pacific deep-sea floor

Class will meet in Vaughn Hall Room 348 on Tuesdays and Thursdays 1.00pm to 2.20pm (or 3.00 to 4.20 p.m. if that is more convenient for registered students).