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SIO 244 SHAPE AND STRUCTURE OF THE OCEAN FLOOR
Spring 2016

March 29, 31	Introduction, and a historical perspective on techniques, plate driving forces, and plate cooling consequences
April 5, 7	Plate flexure, fracture, and welding
12, 14	The varieties of active and inactive risecrests
19, 21	Segmentation of risecrests and shearing at transform and nontransform offsets
26, 28	Rise-flank fracture zones, normal, and oblique
May 3, 5	Patterns of rise-flank volcanism Growth, collapse, and destruction of oceanic volcanoes
10, 12	Guyots, atolls, and drowned atolls Regional patterns of abyssal sedimentation
17, 19	Deep sea erosion, causes and results Mud drifts and their depositional bedforms
24, 26	Turbidity currents and deep-sea channels Abyssal fans and plains
May 31, June 2	Shape, structure, and history of the Pacific deep-sea floor

Class will meet in Vaughn Hall Room 348 1.00pm to 2.20pm, Tuesdays and Thursdays. There will be also be a Saturday field trip to the Salton Trough 6.30am-7.00pm, date TBA.