

## **Preliminary Magnetostratigraphic Results From ODP Leg 198-Shatsky Rise**

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**Shatsky Rise is medium-sized large igneous province located in the north-central Pacific Ocean and was the target of ODP Leg 198. Sediments of Paleogene and Cretaceous age are buried at relatively shallow depths on three topographic highs that make up the Rise. A total of eight sites were drilled on the leg, five of which (1207, 1208, 1210, 1211 and 1212) have produced magnetic stratigraphies for sediments ranging in age from Late Cretaceous to Recent. Shipboard magnetic data measured on the half-core provided high quality data for sediments from Miocene to Recent. These data have been ground-truthed using discrete sample cubes. Shipboard data from Paleogene and older sediments were uninterpretable due to the unconsolidated nature of the sediments and sporadic drilling-related disturbance. Discrete samples have been used to provide a magnetic stratigraphy for these sediments. Biostratigraphic results were used to aid in the interpretation of the magnetic stratigraphy in the Paleogene and Cretaceous. Orthogonal projections from discrete samples show a significant drilling related overprint in most of the sediments but this can be removed at peak fields of 15mT. Magnetostratigraphic results from these sediments will provide critical information regarding the timing of climatic and paleoceanographic events in the Paleogene and Cretaceous. Two sites (1207 and 1208) provided outstanding Neogene age sections with relatively high sedimentation rates. At Site 1208, sedimentation rates calculated from shipboard magnetostratigraphic results are 4.5-5.5 cm/kyr for the Brunhes and Matuyama Chrons.**

**1. Chapman Conference on Timescales of the Geomagnetic Field 2. Poster 3. (a) H F Evans, Department of Geological Sciences, University of Florida, Gainesville, FL 32611 (b) 352-392-3298 (c) 352-392-9294 (d) geohelen@ufl.edu 4. Yes**