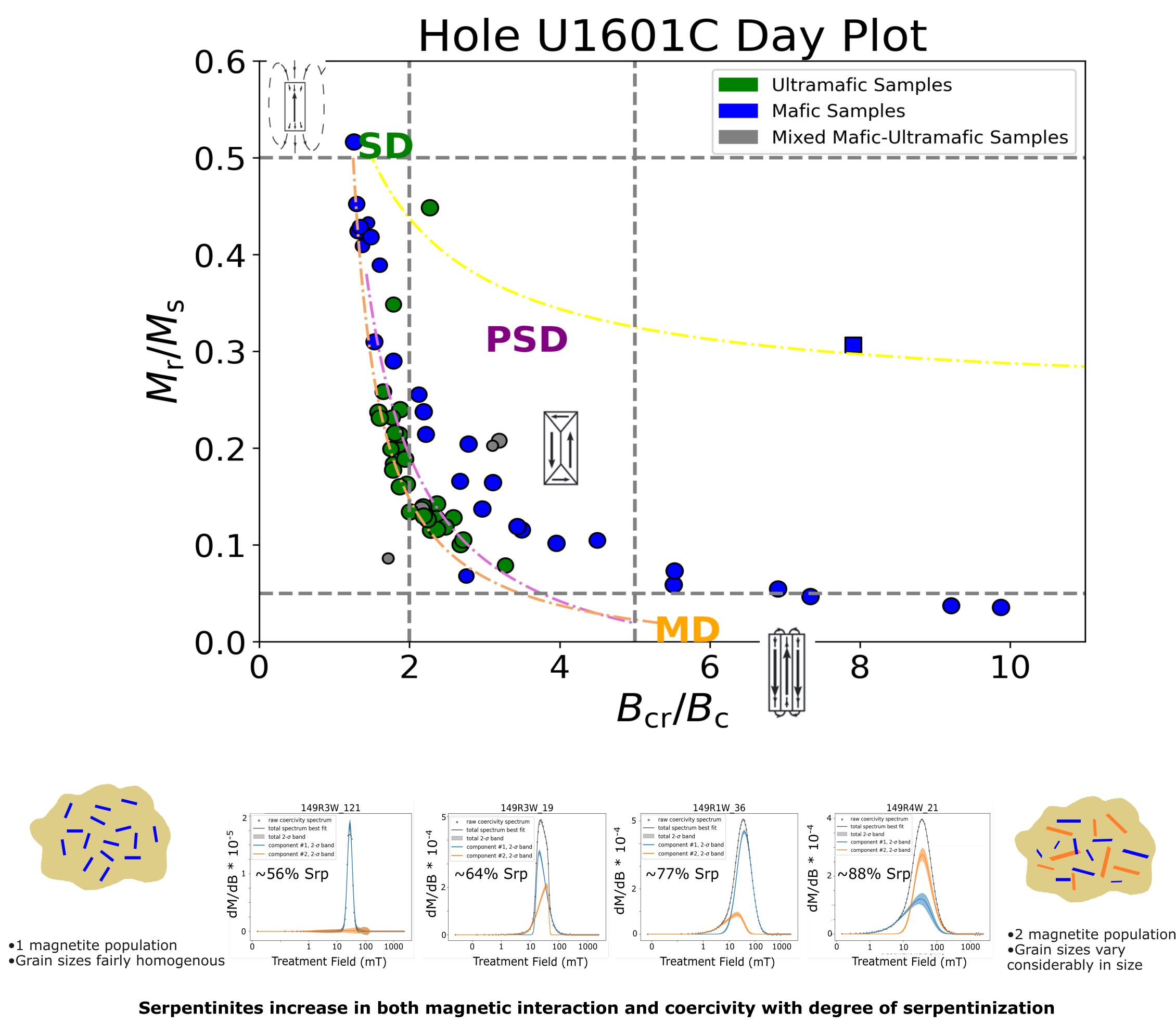
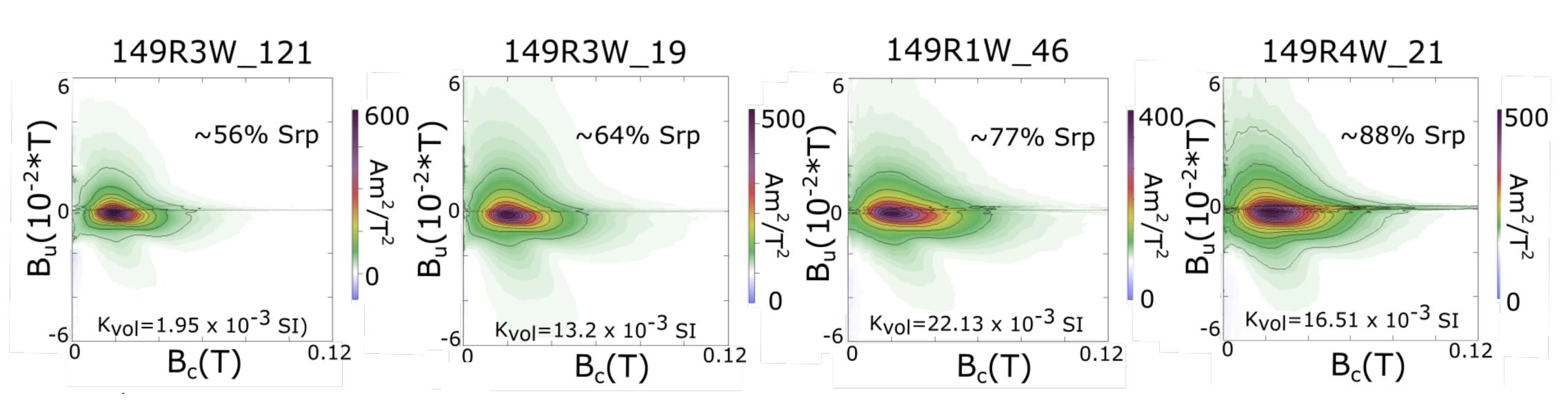


# Magnetic Characterization of Borehole Samples from **IODP Expedition 399: Atlantis Massif, Mid-Atlantic Ridge**

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magnetic iron sulfides





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## **Key Points**

• Best depth-wise coverage yet of ocean-derived serpentinized peridotites and their magnetic properties

• Gabbro intrusions from this borehole display different magnetic properties than elsewhere in the same oceanic core complex, mostly from the inclusion of

• Serpentinites typically exhibit vortex domain states, with both the formation of new magnetite and growth of pre-existing grains during serpentinization

From left to right, samples collected at 739.8, 737.4, 738.8, and 740.2 mbsf, respectively.

## Acknowledgment