



Figure S4: First-order reversal curve (FORC) distribution for an Ancora sample at 169.53 m. The distribution suggests the presence of stable single-domain magnetic particles (magnetofossils) with a unimodal grain-size distribution and weak between-chain or between-particle magnetic interactions. The color legend shows the distribution density. The smoothing factor $SF = 2$. The plot on the right shows a normalized vertical profile through the distribution maximum at 21.7 mT (dashed line). The mean half-width field $H_{u1/2} = 4.7$ mT.