



Paleosecular variation registered on sediments from the last 30 kyr at the Galician Atlantic Margin

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The studied material consist of two 2,8 and 2,7 m long gravity cores recovered at depths of 3822 and 4171 meters in the southwestern flank of the Galicia Bank spanning the last 31,3 kyr. The lowermost part of the sequence consist of an alternating sequence of detrital and biogenic turbidites in which several thin hemipelagites and IRD layers are interbedded. This sequence is topped by 50 cm of a mixture of pelagites and hemipelagites covering the last 14 kyr.

In contrast with the discontinuos character of sedimentation, the vertical distribution of direccional data resembles secular variation and showed a good correlation with previously published PSV curves in nearby areas.

This suggests that the dominant process of remanence acquisition was post depositional (pDRM). The nature of the sedimentary record provided the basis to estimate time lags between sediment deposition and remanence lock-in and the occurrence of differences in the acquisition processes related to sediment types.