

ANNEX 2 to CÁNEPA SEMOUNT proposal form.

Bibliographical references for CÁNEPA SEAMOUNT.

1. Contourite depositional system on the Argentine Slope: An exceptional record of the influence of Antarctic water masses

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Abstract

A significant contourite depositional system (CDS) on the continental slope of the southern Argentine margin is described here for the first time. This system contains both erosive and depositional features that have resulted from several factors, including topographic intensification of the Antarctic-sourced water masses, the systematic northward decrease in speed of these water masses, a northward increase of downslope sedimentary processes, and local tectonic influences. This system is an exceptional example of a CDS that started to develop at the time of the Eocene-Oligocene boundary, potentially coeval with the opening of the Drake Passage. However, a new margin morphology, characterized by a complex terraced slope lacking any continental rise, developed after a major paleoceanographic change in the middle to late Miocene. We infer that this change resulted from the extension of North Atlantic Deep Water circulation into the Southern Hemisphere and the deepening of Antarctic Bottom Water circulation in the Argentina Basin.

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2. Giant mounded drifts in the Argentine Basin: origins, global implications in the thermohaline circulation and gas hydrate potential. Hernández-Molina, F.J., Paterlini, M., Somoza, L., Violante, R.A., Arecco, M.A., de Isasi, M., Rebesco, M., Uenzelmann-Neben, G., Neben, S., and Marshall, P.

Marine and Petroleum Geology, Vol. 27 (2010), pp. 1508-1530.

3. Book chapter

Argentine Continental Shelf: morphology, sediments, processes and evolution since the last glacial maximum. Submission for Continental Shelves During the Last Glacioeustatic Cycle.

Authors: Violante, R.A., Marcolini, S., Cavallo, J.L., Paterlini, C.M., Costa, I.P., Laprida, C., Dragani, W., Watanabe, S., Totah, V., Rovere, E.I., and Osterrieth, M.L. The Shelves of the World Reviews, the final volume of Project IUGG-UNESCO-IGCP 464, Continental Shelves During the Last Glacial Cycle, A.R. Chivas and F.L. Chiocci, eds. (Geological Society of London, United Kingdom). Submitted manuscript No. CSDLGC-485.