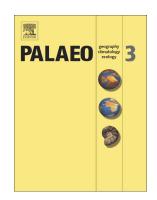
Accepted Manuscript

Paired isotope records of carbonate and organic matter from the Middle Ordovician of Argentina: Intrabasinal variation and effects of the marine chemocline



Miles A. Henderson, Fernanda Serra, Nicolás A. Feltes, Guillermo L. Albanesi, Linda C. Kah

PII: S0031-0182(17)30923-9

DOI: doi:10.1016/j.palaeo.2017.10.018

Reference: PALAEO 8485

To appear in: Palaeogeography, Palaeoclimatology, Palaeoecology

Received date: 5 September 2017 Revised date: 17 October 2017 Accepted date: 17 October 2017

Please cite this article as: Miles A. Henderson, Fernanda Serra, Nicolás A. Feltes, Guillermo L. Albanesi, Linda C. Kah, Paired isotope records of carbonate and organic matter from the Middle Ordovician of Argentina: Intrabasinal variation and effects of the marine chemocline. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Palaeo(2017), doi:10.1016/j.palaeo.2017.10.018

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Paired isotope records of carbonate and organic matter from the Middle
Ordovician of Argentina: Intrabasinal variation and effects of the marine
chemocline

Miles A. Henderson ^a*, Fernanda Serra ^b, Nicolás A. Feltes ^{bc}, Guillermo L. Albanesi ^{bc}, and Linda C. Kah ^a

^a Department of Earth and Planetary Sciences, University of Tennessee, Knoxville, TN 37996 United States

^b CICTERRA (CONICET-UNC), Av. Vélez Sarsfield 1611, Córdoba X5016GCA, Argentina

^c CONICET, Museo de Paleontolía, CIGEA, FCEFyN, Av. Vélez Sarsfield 299, Córdoba, X5000FCO, Argentina

*milesh@utk.edu

Abstract

We investigate the expression of the Middle Darriwilian isotope carbon excursion (MDICE) across marine shelf environments in the Argentine Precordillera. Previous work identified the MDICE in the Las Chacritas Formation in Argentina, but did not recognize the expression of the MDICE in time-equivalent strata of the deeper-water Las Aguaditas Formation (Albanesi et al., 2013; Palaeogeography, Palaeoclimatology, Palaeoecology, v. 398, p. 48–66). Recent biostratigraphic investigations of these units have, for the first time, provided the opportunity for high-resolution correlation, which suggest that the MDICE, or at least the initiation of the MDICE, should be observed in both the Las Chacritas and Las Aguaditas formations. Here we present new paired carbon isotope data of carbonate and organic carbon from the Las Chacritas and Las Aguaditas formations. We identify a 2 ‰ positive shift in the

Download English Version:

https://daneshyari.com/en/article/8868434

Download Persian Version:

https://daneshyari.com/article/8868434

Daneshyari.com