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

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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

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