

New constraints on the Eastern Mediterranean $\delta^{18}\text{O}:\delta\text{D}$ relationship

Submitted by Emmanuel Lemoine on Tue, 09/16/2014 - 11:47

Titre	New constraints on the Eastern Mediterranean $\delta^{18}\text{O}:\delta\text{D}$ relationship
Type de publication	Article de revue
Auteur	Cox, K.-A. [1], Rohling, E.-J. [2], Schmidt, G. A [3], Schiebel, Ralf [4], Bacon, S. [5], Winter, D.-A. [6], Bolshaw, M. [7], Spero, H.-J. [8]
Editeur	European Geosciences Union
Type	Article scientifique dans une revue � comit� de lecture
Ann�e	2011
Langue	Anglais
Date	2011/01/18
Num�ro	1
Pagination	39 - 53
Volume	8
Titre de la revue	Ocean Sci. Discuss.
ISSN	1812-0822
R�sum� en anglais	<p>Previous work on oxygen and hydrogen isotope data from Eastern Mediterranean water samples has defined a mixing relationship in this region that is different from the world surface ocean. This prompted speculations about the hydrological processes in the Mediterranean region. We present new $\delta^{18}\text{O}$ and δD data from the Eastern Mediterranean region and the East Greenland Current system, spanning a wide salinity range. These data define $\delta^{18}\text{O}:\delta\text{D}$ relationships for both regions that are consistent with the world surface ocean $\delta^{18}\text{O}:\delta\text{D}$ relationship, despite the highly evaporative conditions that prevail in the Mediterranean region. These new geochemical data have suggested that the world surface ocean $\delta^{18}\text{O}:\delta\text{D}$ relationship holds throughout almost the entire global salinity range.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua3830 [9]
DOI	10.5194/osd-8-39-2011 [10]
Lien vers le document	http://dx.doi.org/10.5194/osd-8-39-2011 [10]

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- [6] [http://okina.univ-angers.fr/publications?f\[author\]=6302](http://okina.univ-angers.fr/publications?f[author]=6302)

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- [10] <http://dx.doi.org/10.5194/osd-8-39-2011>

Publié sur *Okina* (<http://okina.univ-angers.fr>)