

Accepted Manuscript

Age constraints on intra-formational unconformities in Upper Jurassic-Lower Cretaceous carbonates in northeast Turkey; geodynamic and hydrocarbon implications

Stephen J. Vincent, Li Guo, Rachel Flecker, Marcelle K. BouDagher-Fadel, Robert M. Ellam, Raif Kandemir

PII: S0264-8172(18)30011-4

DOI: [10.1016/j.marpetgeo.2018.01.011](https://doi.org/10.1016/j.marpetgeo.2018.01.011)

Reference: JMPG 3201

To appear in: *Marine and Petroleum Geology*

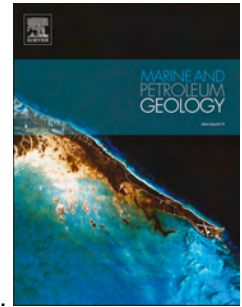
Received Date: 10 August 2017

Revised Date: 30 November 2017

Accepted Date: 10 January 2018

Please cite this article as: Vincent, S.J., Guo, L., Flecker, R., BouDagher-Fadel, M.K., Ellam, R.M., Kandemir, R., Age constraints on intra-formational unconformities in Upper Jurassic-Lower Cretaceous carbonates in northeast Turkey; geodynamic and hydrocarbon implications, *Marine and Petroleum Geology* (2018), doi: 10.1016/j.marpetgeo.2018.01.011.

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.



Age constraints on intra-formational unconformities in Upper Jurassic-Lower Cretaceous carbonates in northeast Turkey; geodynamic and hydrocarbon implications

Stephen J. Vincent^{1,*}, Li Guo¹, Rachel Flecker², Marcelle K. BouDagher-Fadel³, Robert M. Ellam⁴ & Raif Kandemir⁵

¹CASP, West Building, Madingley Rise, Madingley Road, Cambridge, CB3 0UD, UK
(stephen.vincent@casp.cam.ac.uk)

²BRIDGE, School of Geographical Sciences and Cabot Institute, University of Bristol, University Road, Bristol, BS8 1SS, UK (R.Flecker@bristol.ac.uk)

³University College London, 2 Taviton Street, London WC1H 0BT, UK (m.fadel@ucl.ac.uk)

⁴Scottish Universities Environmental Research Centre (SUERC), Scottish Enterprise Technology Park, Rankine Ave., East Kilbride, G750QF, UK (Rob.Ellam@glasgow.ac.uk)

⁵Recep Tayyip Erdoğan University, Department of Geological Engineering, 53000, Fener-Rize, Turkey
(raif.kandemir@erdogan.edu.tr)

*Corresponding author

Abstract

Upper Jurassic-lowermost Cretaceous carbonate build-ups are imaged on seismic data in the Black Sea. They form important, untested, hydrocarbon reservoirs that are the focus of active exploration. Outcrop analogues to these build-ups around the Black Sea contain a series of subaerial exposure surfaces. The hiatuses associated with a number of these subaerial exposure surfaces have been dated in a well exposed Callovian or Upper Oxfordian to Barremian shallow-water inner platform carbonate succession (the Berdiga Formation) in the Eastern Pontides using strontium isotope stratigraphy and foraminiferal biostratigraphy. They span the latest Kimmeridgian to Tithonian or Berriasian, and the Hauterivian to Barremian. Less well constrained, but broadly contemporaneous

Download English Version:

<https://daneshyari.com/en/article/8909220>

Download Persian Version:

<https://daneshyari.com/article/8909220>

[Daneshyari.com](https://daneshyari.com)