

## Products NSF Award 1103108

### Books

Ginés, A., Ginés, J., Gómez-Pujol, L., Onac, B.P., Fornós, J.J. (eds.) (2012). *Mallorca: a Mediterranean benchmark for Quaternary studies*. Societat d'Història Natural de les Balears. Palma de Mallorca; ISBN: 978-84-615-7918-1

### Book Chapters

Ginés, J., Ginés, A., Fornós, J.J., Tuccimei, P., Onac, B.P., Gràcia, F. (2012). Phreatic overgrowths on speleothems (POS) from Mallorca: updating forty years of research. In: *Mallorca: a Mediterranean benchmark for Quaternary studies* Ginés et al. (eds.). Societat d'Història Natural de les Balears, Palma de Mallorca; ISBN: 978-84-615-7918-1.

Onac, B.P., Ginés, A., Ginés, J., Fornós, J.J., Dorale, J.A. (2012). Late Quaternary sea-level history: a speleothem perspective. In: *Mallorca: a Mediterranean benchmark for Quaternary studies*. Ginés et al. (eds.). Societat d'Història Natural de les Balears, Palma de Mallorca; ISBN: 978-84-615-7918-1.

van Hengstum, P., Richards, D., Onac, B.P., Dorale, J.A. (2015). Coastal Caves and Sinkholes. In: *Handbook for Sea-level Research*. Shennan, I., Long, A., Horton, B. (eds.). John Wiley & Sons, Inc., Oxford; ISBN: 978-1-118-45258-5.

### Conference Papers and Presentations

Boop, L.M., Wynn, J.G., Onac, B.P., Fornós, J.J., Merino, A., Rodríguez-Homar, M. (2013). *Aqueous isotope analyses in two littoral caves in Mallorca, Spain: preliminary results*. 16<sup>th</sup> International Congress of Speleology. Brno, Czech Republic.

Dumitru, O.-A., Onac, B.P., Polyak, V.J., Asmerom, Y., Fornós, J.J. (2014). *Climate variability in the western Mediterranean basin since the last interglacial from growth rate speleothem data*. AGU Fall Meeting. San Francisco, CA.

Polyak, V.J., Onac, B.P., Asmerom, Y., Fornós, J.J., Dorale, J.A., Tuccimei, P. (2014). *Evidence for Stable Sea-level during Marine Isotope Stage 5e of the Last Interglacial from the Western Mediterranean*. AGU Fall Meeting. San Francisco, CA.

Ginés, J., Fornós, J.J., Tuccimei, P., Onac, B.P., Gràcia, F. (2013). *Forty years of phreatic overgrowth on speleothems (POS) research in coastal caves of Mallorca*. 16<sup>th</sup> International Congress of Speleology. Brno, Czech Republic.

Tuccimei, P., Soligo, M., Fornós, J.J., Ginés, A., Ginés, J., Spada, G., Villa, I.M., Onac, B.P. (2013). *Late Holocene sea-level record in Mallorca inferred from U-Th dating of overgrowths on speleothems: Implications for the GIA models in the western Mediterranean*. 10<sup>th</sup> Applied Isotope Geochemistry Conference, Budapest, Hungary.

Boop, L.M., Onac, B.P., Wynn, J.G., Fornós, J.J., Merino, A., Rodríguez-Homar, M. (2013). *Phreatic overgrowths on speleothems in the littoral caves of Mallorca, western Mediterranean: Hydro- and geochemical monitoring*. Geological Society of America Fall Meeting, Denver, CO.

Dumitru, O.-A., Onac, B.P., Polyak, V.J., Asmerom, Y., Fornós, J.J. (2015). *Speleothem growth rate and stable isotope record during the last interglacial from a Campanet Cave stalagmite (Mallorca, western Mediterranean): Evidences*

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*for significant hydro-climate changes*. From Archive to Process: Progress in the Quaternary archive studies in the Iberian Peninsula. Sevilla, Spain.

Boop, L.M., Onac, B.P., Wynn, J.G., Fornós, J.J., Rodríguez-Homar, M. (2013). *Water column variability in a coastal touristic cave in Mallorca, Spain*. 20<sup>th</sup> National Cave and Karst Management Symposium. Carlsbad, NM.

### Journals

Boop, L., Wynn, J.G., Thompson, G., Fornós, J.J., Onac, B.P. (2015).

Interactions between surface conditions and the Mediterranean Sea with two littoral caves in Mallorca: Controls on the formation of phreatic overgrowths on speleothems. Under review at *Journal of Hydrology*.

Boop, L.M. Onac, B.P., Wynn, G.W., Fornós, J.J., Rodríguez-Homar, M., Merino, A. (2014). Groundwater geochemistry observations in littoral caves of Mallorca (western Mediterranean): implications for deposition of phreatic overgrowths on speleothems. *International Journal of Speleology*. 43 (2), 193-203; DOI: <http://dx.doi.org/10.5038/1827-806X.43.2.7>

Dumitru, O.-A., Onac, B.P., Polyak, V.J., Asmerom, Y., Fornós, J.J. (2015). Speleothem growth rate and stable isotope record during the last interglacial from a Campanet Cave Stalagmite (Mallorca, western Mediterranean): Evidences for significant hydro-climate changes. Submitted at *Geology*.

Onac, B.P., Fornós, J.J., Merino, A., Ginés, J., Diehl, J. (2014). Linking mineral deposits to speleogenetic processes in Cova des Pas de Vallgornera (Mallorca, Spain). *International Journal of Speleology*. 43 (2), 143-157; DOI: <http://dx.doi.org/10.5038/1827-806X.43.2.4>

Polyak, V.J., Onac, B.P., Fornós, J.J., Asmerom, Y., Dorale, J.A., Ginés, J., Tuccimei, P., Ginés, A. (2015). Stable Marine Isotope Stage (MIS) 5e Sea-level and Rapid Excursions Bounding MIS-5a & -5e from Mallorca. Under review at *Nature Geoscience*.

Tuccimei, P., Onac, B.P., Dorale, J.A., Ginés, J., Fornós, J.J., Ginés, A., Spada, G., Ruggieri, G., Mucedda, M. (2012). Decoding last interglacial sea-level variations in the Western Mediterranean using speleothem encrustations from coastal caves in Mallorca and Sardinia: A field data - model comparison. *Quaternary International*. 262: 56-64; DOI: <http://dx.doi.org/10.1016/j.quaint.2011.10.032>

### Other Publications

Onac, B.P. (April 2013). *Back to the Future*. National Geographic Romania. p. 20-29.

### Thesis/Dissertations

Boop, L.M. (2014). *Characterization of the Depositional Environment of Phreatic Overgrowths on Speleothems in the Littoral Caves of Mallorca (Spain): a Physical, Geochemical, and Stable Isotopic Study*. Unpublished PhD Thesis, University of South Florida, Tampa, 128 p.

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Diehl, J.A. (2015). *The Speleogenesis of Vallgornera Cave (Mallorca, Spain): a Mineralogical and Morphological Study*. Unpublished MS Thesis, University of South Florida, Tampa, 96 p.

### Websites

*Sea-level variability over the past 200,000 years precisely reconstructed from carbonate deposits in Mallorcan caves (P2C2)*

[http://bonac.myweb.usf.edu/BogdanOnac/Sea\\_Level.html](http://bonac.myweb.usf.edu/BogdanOnac/Sea_Level.html)