

Domesticated Landscapes of the Peloponnese (DoLP) Annual report for 2018

General overview

After much focus during 2016 and 2017 on the arrangement of workshops and conferences, in 2018 the focus has been on producing journal papers. Much time and efforts were during the spring dedicated to the preparation of a number of manuscripts, within the DoLP-team and in collaboration with a number of colleagues. 2018 was also the year for the publication of the first products conceived, produced and finalized within the DoLP project (i.e. real DoLP products). Additionally, a number of collaborative papers including at least one DoLP member were also published. Outreach activities consisted primarily of participation in conferences and workshops.

The conclusion of the year meant also that we were soon about to enter into the final full year of the project and we have begun to think about the future.

Research

A major component of the work during 2018 was to prepare, submit and revise two papers that related to a special issue in the journal *The Holocene* conceived at the workshop “*Changing the Face of the Mediterranean*”. These two papers were led by Erika and Martin respectively and were accepted for publication in October-November. A third paper was also prepared, submitted and revised during 2018. This paper led by Anton was accepted for publication in *Journal of Field Archaeology* in October. With the writing of this paper, Anton has continued to work on the site database, enhancing the structure of the database (now in Access) and the modelling based on it.

Erika was on teaching leave during February and March. Martin was on parental leave from August until late January 2019.

Fieldwork

Anton conducted a season of excavation at the Poseidon sanctuary at Kalaureia/Poros (May and June), under the auspices of the Swedish institute at Athens.

Work with the core from Lerna continued by Christos Katrantisiotis, SU, and DoLP contributed funds for more radiocarbon dates (courtesy of funds from Enboms donationsfond, Kungl. Vitterhetsakademien).

Dating results from Andritsa Cave finally came and unfortunately that material turned out to be too old, with main period of growth terminating already around 40,000 years ago.

Outreach

DoLP held an in-house seminar at the Department of Archaeology and Ancient History in January, presenting a half-way report. Summarizing the first half of the project made us realize that we have already achieved many things and made us rather proud of our work so far!

On May 12, Martin also made the Greek News through an article featuring in Kathimerini on: [Τέλος Μυκηναίων λόγω ξηρασίας](#) (End of Mycenae due to drought), as a result of his work on the Mavri Trypa Cave and the 2017 paper in PlosOne.

Participation in conferences and workshops

In January, Martin attended the workshop “4.2 ka BP Event” in Pisa and presented the paper “Speleothem evidence for dry climate condition around 4200 yrs BP from the Peloponnese” (with Karin Holmgren, Hsun-Ming Hu, Chuan-Chou Shen, Meighan Boyd, Dirk Hoffman, Christoph Spötl).

In April, Erika was in Lausanne, as an external expert at a colloque privé, Université de Lausanne, for the evaluation of the PhD thesis of Andrea Kay, ‘Livelihoods, land use, and population in pre-colonial sub-Saharan Africa: Advances in the quantification of human-environment interactions over archaeological time-scales’.

In May, Anton held a guest lecture at the department of Ancient History, University of Göttingen with the title “Exploring the environmental history of the Greek polis: human-environmental interactions in the Archaic to Roman Peloponnese”.

In May, Anton presented the paper “GIS Based Kernel density analysis and the reevaluation of previously published survey datasets from the Peloponnese, Southern Greece” at AIAC. International Congress of Classical Archaeology. Archaeology and economy in the ancient world. The panel was entitled “City hinterland relations on the move? The impact of socio-political change on local economies from the perspective of survey archaeology”.

In September, Erika attended EAA in Barcelona and presented the paper “Assessing ancient land use on the Peloponnese peninsula, Greece” in the session entitled ‘From local to global land use in the Holocene’.

In November Anton attended the conference “Climate Science and Ancient History” in Basel, 27-28 Nov. He presented a paper called “A Domesticated Landscapes of the Peloponnese: Speleothem Data, Climate Variability and Land-Use Dynamics in the Hellenistic and Roman Peloponnese”.

In December, Erika participated as an invited, external expert to a workshop at Kiel University presenting initial results of the project ‘Transformations in early Greek societies and landscapes’, Project E1 within the large-scale ‘SFG 1266 Scales of Transformation’ program.

Published papers

The year was quite productive in terms of published papers, with three internal DoLP papers and three collaborative papers, in their order of appearance:

Hughes, R.E., Weiberg, E., Bonnier, A., Finné, M., Kaplan, J.O. 2018. Quantifying land use in past societies from cultural practice and archaeological data. *Land*, 7 (1), art. no. 9.

Klingborg, P., Finné, M. 2018. Modelling the freshwater supply of cisterns in ancient Greece. *Water History* 10, 113–131.

Finné, M., Weiberg, E. 2018. Climate change and ancient societies: facing up to the challenge of chronological control, in A. Ekblom, C. Isendahl, & K.-J. Lindholm (ed.) *The Resilience of Heritage: Cultivating a Future of the Past. Essays in honour of Professor Paul Sinclair*: 269–87. Studies in Global Archaeology 23. Uppsala: Uppsala University.

Norström, E., Katrantsiotis, C., Finné, M., Risberg, J., Smittenberg, R.H., Bjursäter, S. 2018. Biomarker hydrogen isotope composition (δD) as proxy for Holocene hydroclimatic change and seismic activity in SW Peloponnese, Greece. *Journal of Quaternary Science*, 33 (5), pp. 563-574.

Labuhn, I., Finné, M., Izdebski, A., Roberts, N., Woodbridge, J. 2018. Climatic Changes and Their Impacts in the Mediterranean during the First Millennium AD, *Late Antique Archaeology*, 12(1), 65-88.

Weiberg, E., Finné, M. 2018. Resilience and persistence of ancient societies in the face of climate change: a case study from Late Bronze Age Peloponnese. *World Archaeology*, Online first.

Outlook

We are looking forward to the final publication of the articles produced, and accepted during 2018. We also have new articles in the pipeline and conferences and workshops also line up for 2019.

Collaborative work on the Lerna core will continue with pollen analyses, in collaboration with our colleagues at Stockholm University (Martina Hättstrand, Elin Norström and Christos Katrantsiotis) as well as other colleagues at the Max Planck Institute for the Science of Human History at Jena (Adam Izdebski, Alessia Masi and Georgios Liakopoulos).

We are also looking forward to dating and further results from speleothem sampling from Hermes Cave, Arcadia. This work is conducted in collaboration with Ingmar Unkel (Kiel University) and Tobias Kluge (Heidelberg University).

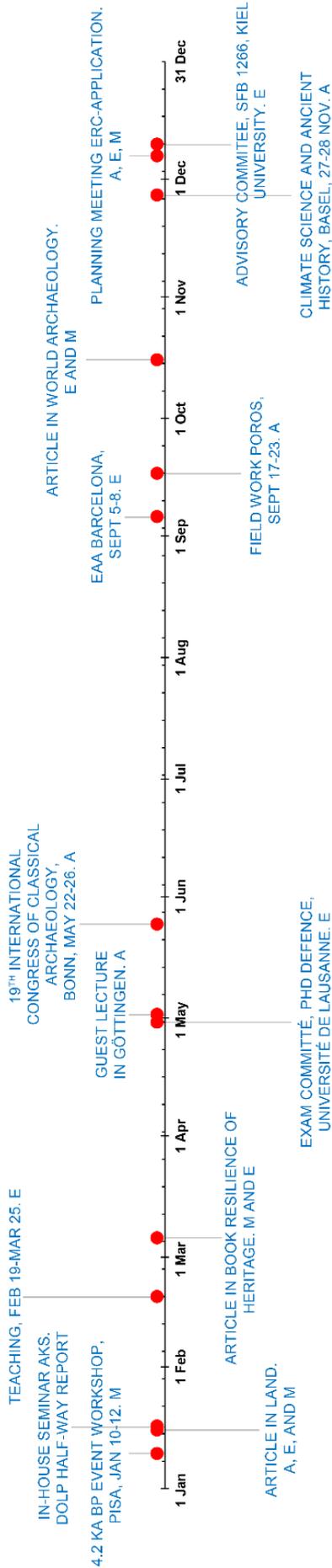
Thinking about the future – new proposals

With 2019, we also move into the final full year of the DoLP project time and thoughts of the future are constantly present. Ideas have been going around since spring, resulting in the conclusion that we want to continue what we are doing, with an additional focus on the causes of climate sensitivity combined with enhanced methods for detecting climate variations within the Peloponnese. Erika will aim for an ERC Consolidator Grant and we will all attempt to utilize all other calls for funds that are made available for our proposals.

The work with the ERC CoG commenced during fall and on December 7, we arranged a small workshop to discuss a first draft proposal authored by Erika. Apart from ourselves, we had invited some supportive and knowledgeable colleagues at the department, as well as the Uppsala University EU officer and we had a good brainstorming session. Work continued over Christmas breaks and we keep our fingers crossed...

2018

Parental leave Martin



Acknowledgements

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We would also like to extend our thanks to several people and institutions for discussions, comments, advice and encouragement: the Navarino Environmental Observatory (NEO), the Department of Archaeology and Ancient History (Uppsala University), the Department of Physical Geography (Stockholm University), Giorgos Maneas, as well as the following colleagues and collaborative partners:

PELOPS group: Pavlos Avramidis, Meighan Boyd, Mary Dabney, Flint Dibble, Karin Holmgren, Martina Hättstrand, Adam Izdebski, Christos Katrantsiotis, Panagiotis Karkanas, Katerina Kouli, Elin Norström, Sharon Stocker, Ingmar Unkel, James Wright

DoLP reference group: Catherine Morgan, James Roy, Kevin Walsh, Neil Roberts, Panagiotis Karkanas, Carole Crumley.

ΕΛΛΑΔΑ 12.05.2018

Τέλος Μυκηναίων λόγω ξηρασίας

ΓΙΩΡΓΟΣ ΔΙΑΛΙΩΣ



Ο ερευνητής του Navarino Environmental Observatory Martin Finne.

Στην παρατεταμένη περίοδο ξηρασίας, που ακολούθησε την καταστροφή του ανακτόρου του Νέστορα στην Πύλο, πιθανότατα οφείλεται το τέλος του Μυκηναϊκού πολιτισμού στη Δυτική Πελοπόννησο. Τα νέα στοιχεία έρχονται στο φως από την εργαστηριακή ανάλυση σταλακτίτη από σπήλαιο της περιοχής, που έδωσε μια σαφή εικόνα για τις κλιματικές συνθήκες που επικρατούσαν στην Ανατολική Μεσόγειο την Υστερη Εποχή του Χαλκού.

Η μελέτη πραγματοποιήθηκε από τους ερευνητές του Navarino Environmental Observatory (επιστημονική συνέργεια του Πανεπιστημίου της Στοκχόλμης, της Ακαδημίας Αθηνών και της ΤΕΜΕΣ Α.Ε.) Martin Finne και Karin Holmgren, σε συνεργασία με την αρχαιολόγο Shari Stocker που πραγματοποίησε ανασκαφές στον αρχαιολογικό χώρο του ανακτόρου. Τις πληροφορίες έδωσε η ανάλυση ενός σταλακτίτη από σπήλαιο της νησίδας Σχιζα, που βρίσκεται σε μικρή απόσταση από την ακτή.

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ΔΙΑΒΑΣΤΕ ΕΠΙΣΗΣ

Το πρώτο στον κόσμο ρομπότ που θα κάνει έκθεση ζωγραφικής

Με παραίτηση απειλεί τα κόμματα του κυβερνητικού συνασπισμού ο Ιταλός πρωθυπουργός

Ετσι θα αποκατασταθεί η αρχαία Παλμύρα

ΓΙΟΥΛΙΑ ΕΠΤΑΚΟΙΛΗ

Όταν ο μικρός Ρέτζι έγινε Ελτον Τζον

ΑΙΜΙΛΙΟΣ ΧΑΡΜΠΗΣ

Martin featuring in *Kathimerini* – 12.05.2018.

We did not do a very good job of photo documenting this year – a lesson for the next and final year of DoLP!



Anton at the Basel workshop!

