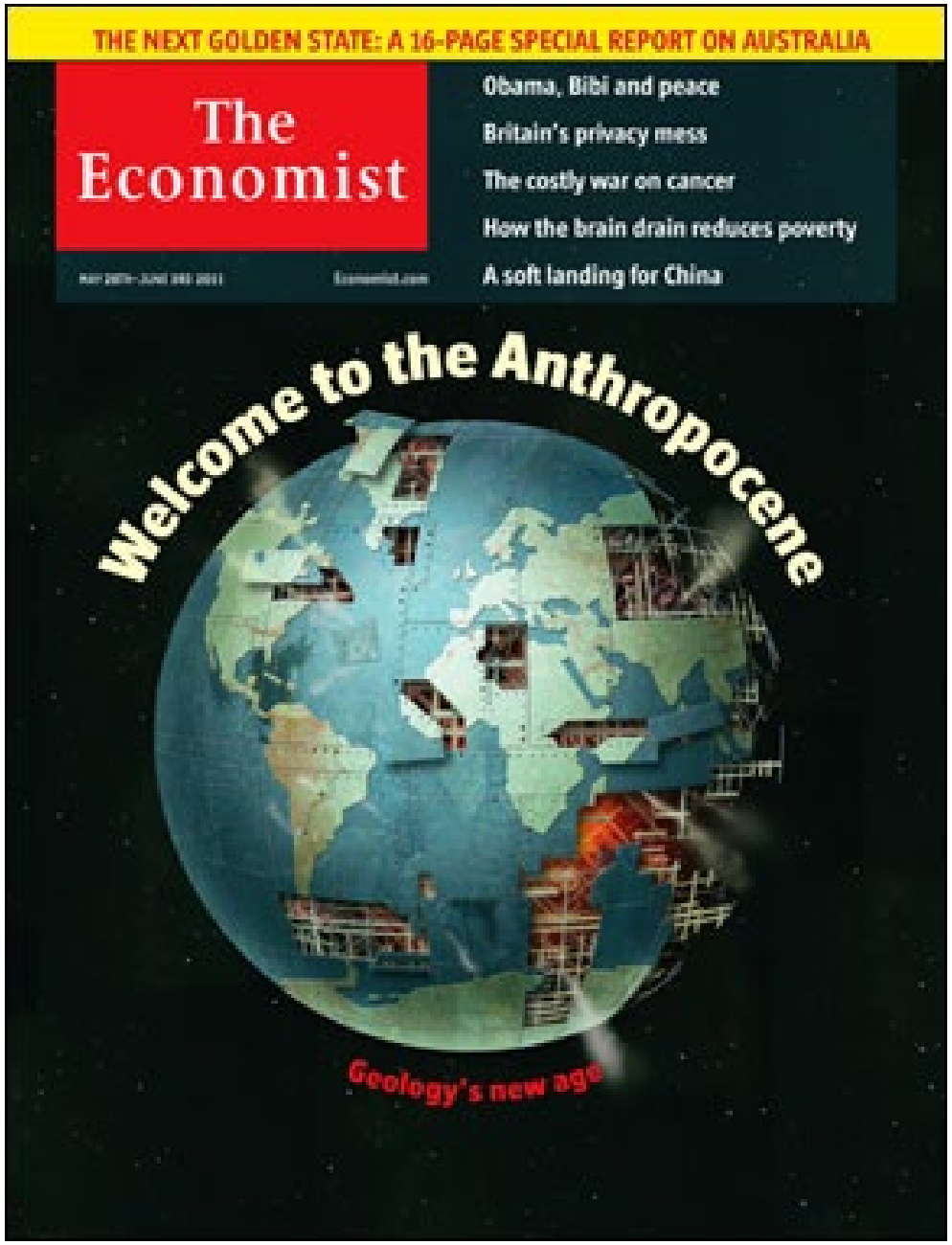
university of groningen / faculty of arts / groningen institute of archaeology

Archaeology of "Human Impact"

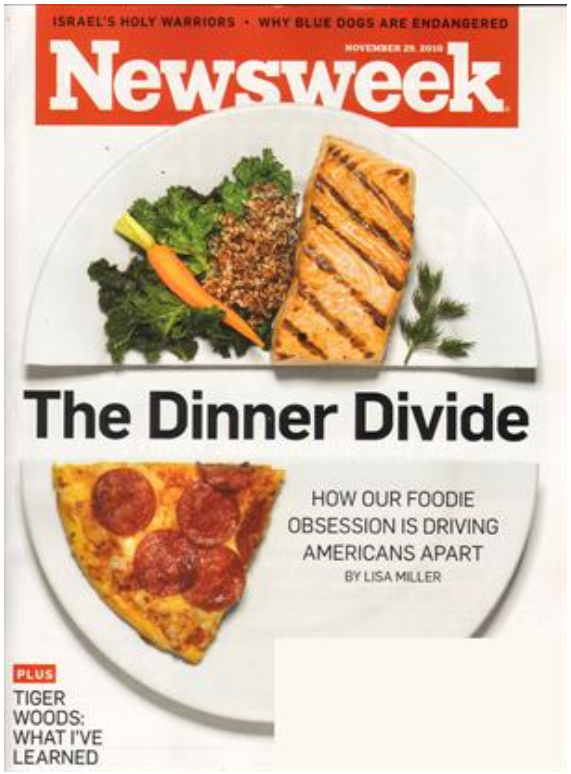
Canan Çakırlar

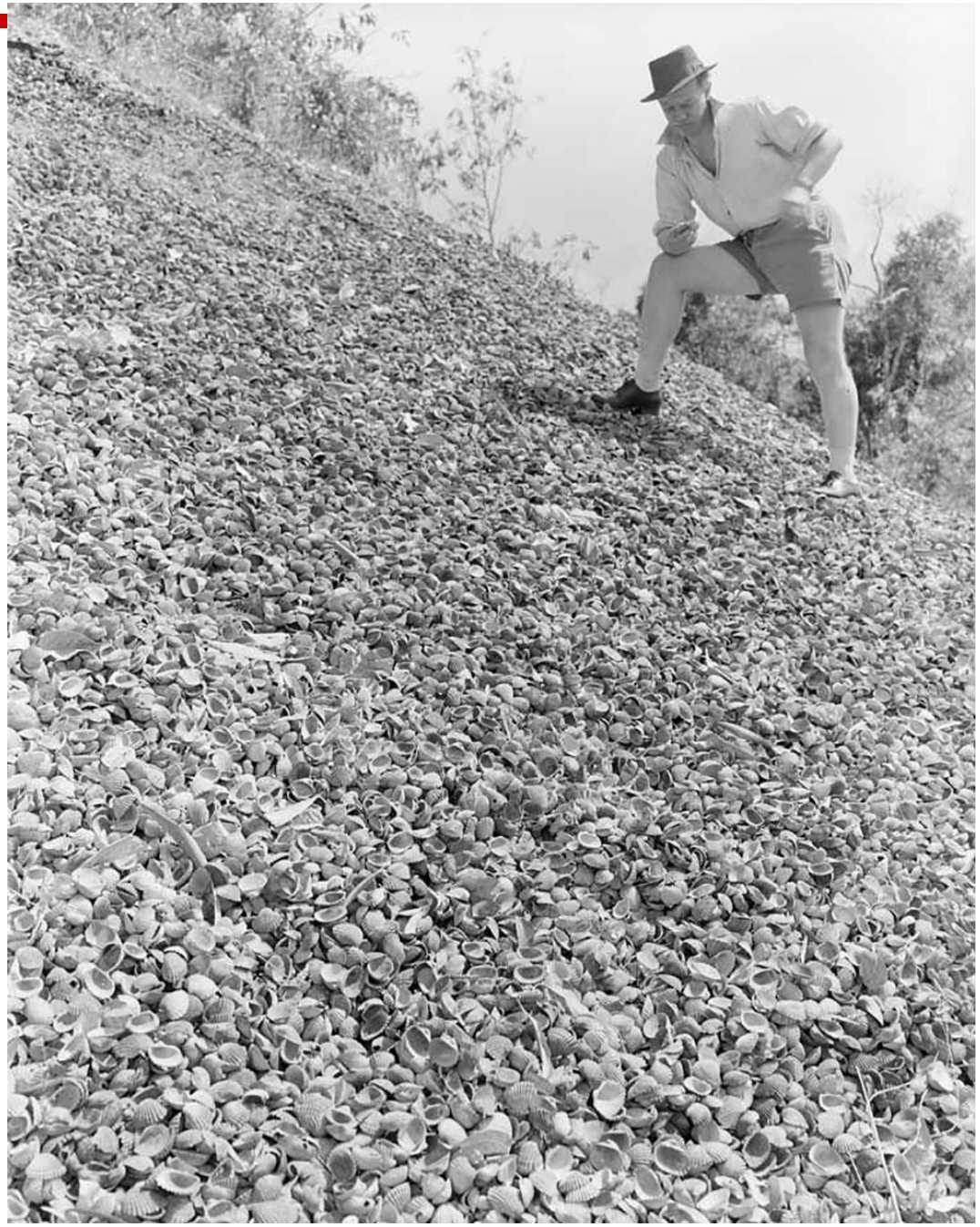
03-06-2022, VU Amsterdam / ARCHON gravity



May 26-28 2011

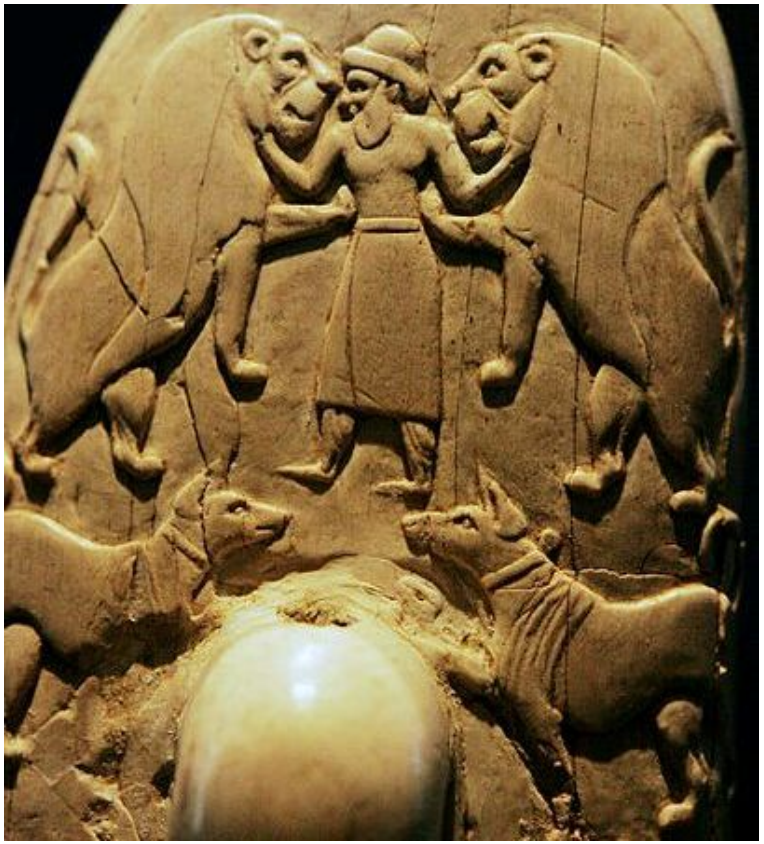
Zooarchaeology studies



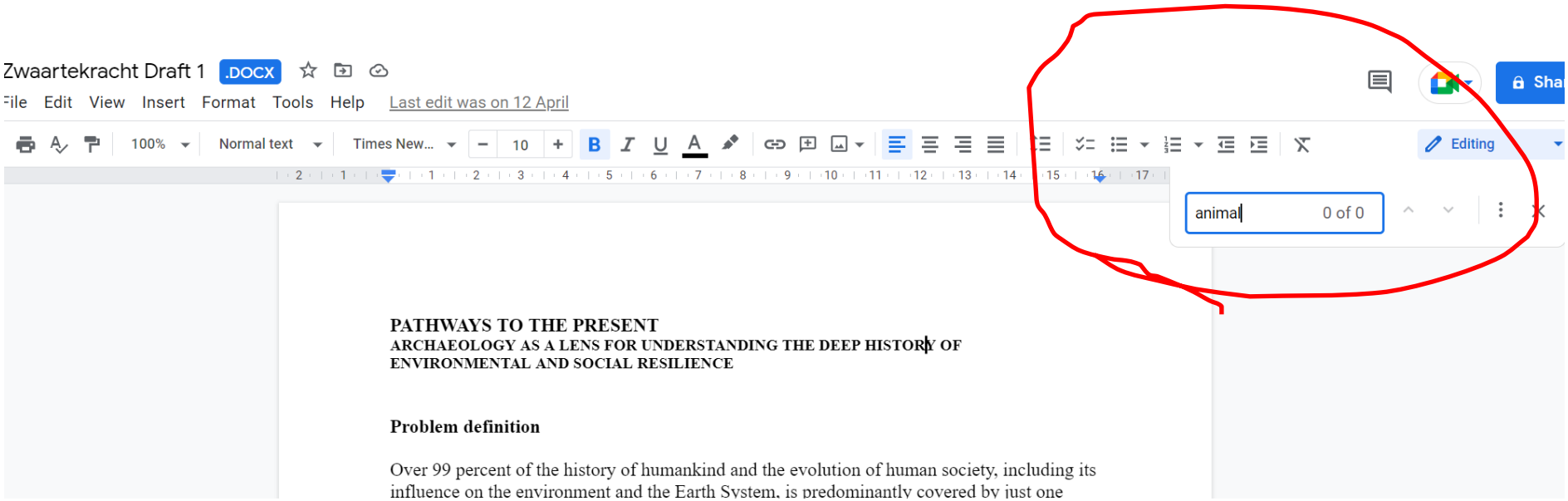


Weipa in Queensland, 1958.
(naa.gov.au)

Seated woman of Çatalhöyük
ca. 6000 BC, Turkey



Gebel el-Arak Knife, Ivory
ca. 3300-3200 BC Egypt


Zwaartekracht Draft 1
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100%
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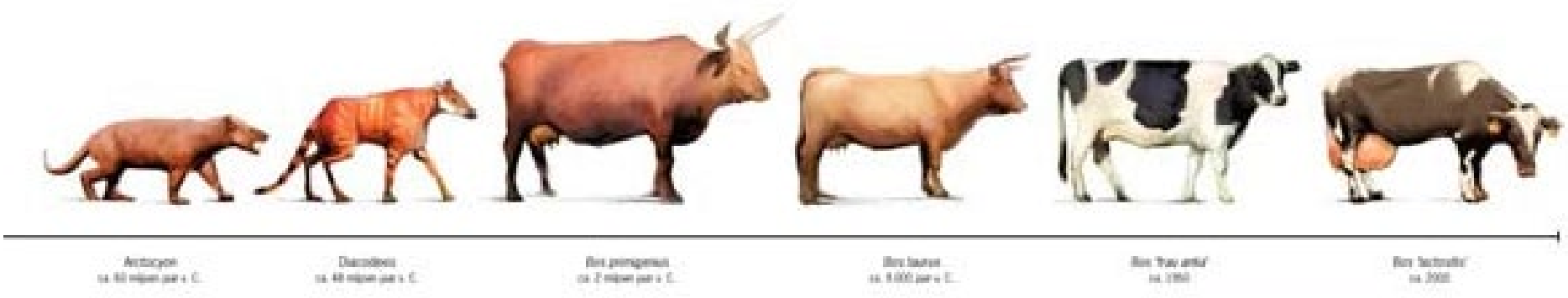
Times New...
10
Editing
animal
0 of 0
PATHWAYS TO THE PRESENT
ARCHAEOLOGY AS A LENS FOR UNDERSTANDING THE DEEP HISTORY OF ENVIRONMENTAL AND SOCIAL RESILIENCE
Problem definition
Over 99 percent of the history of humankind and the evolution of human society, including its influence on the environment and the Earth System, is predominantly covered by just one

evolutie van de kiloknaller

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SeaChanges

MARINE CONSERVATION INSTITUTE

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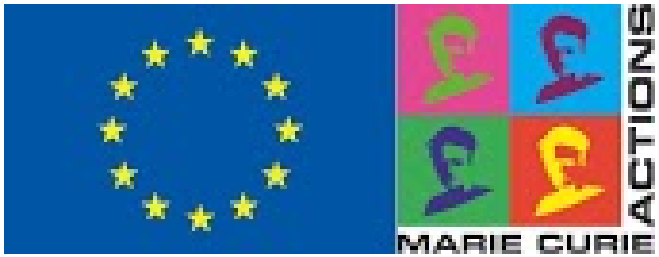
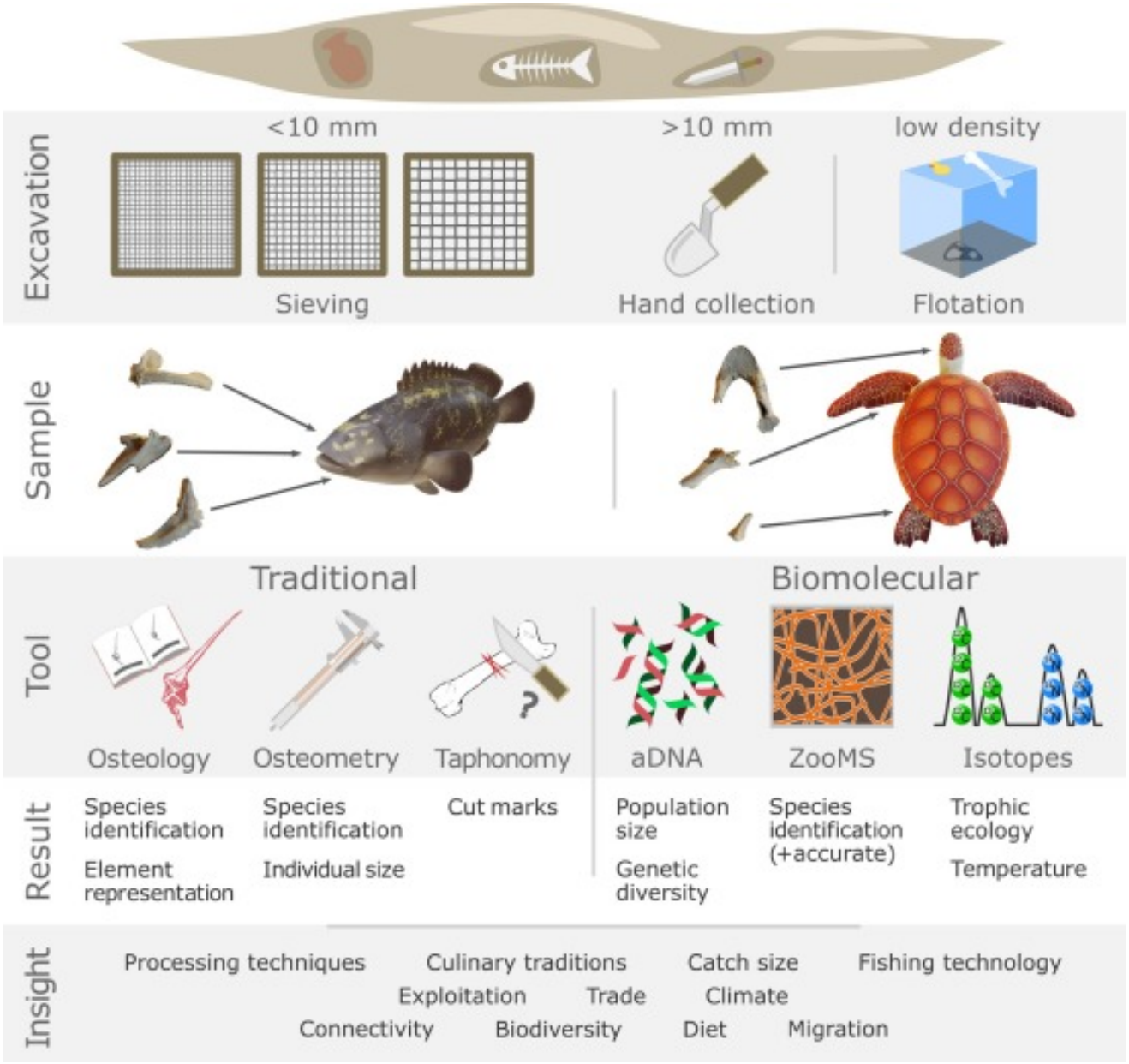


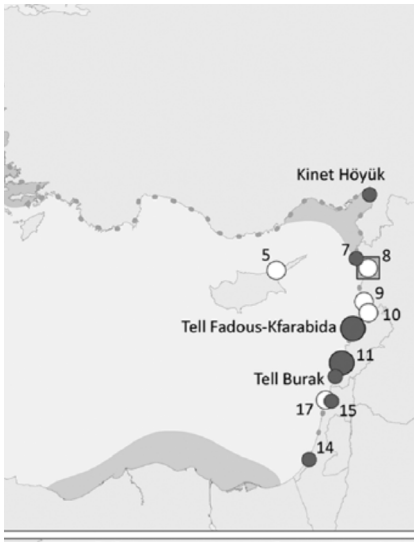
MARIE CURIE ACTIONS

EDAN

NWO



Winter, R., W. de Kock, P. Palsbol, C. Cakirlar. 2020. *JASR*



Tell Fadous Kfar-Abida, Lebanon, ca. 24th c. BCE

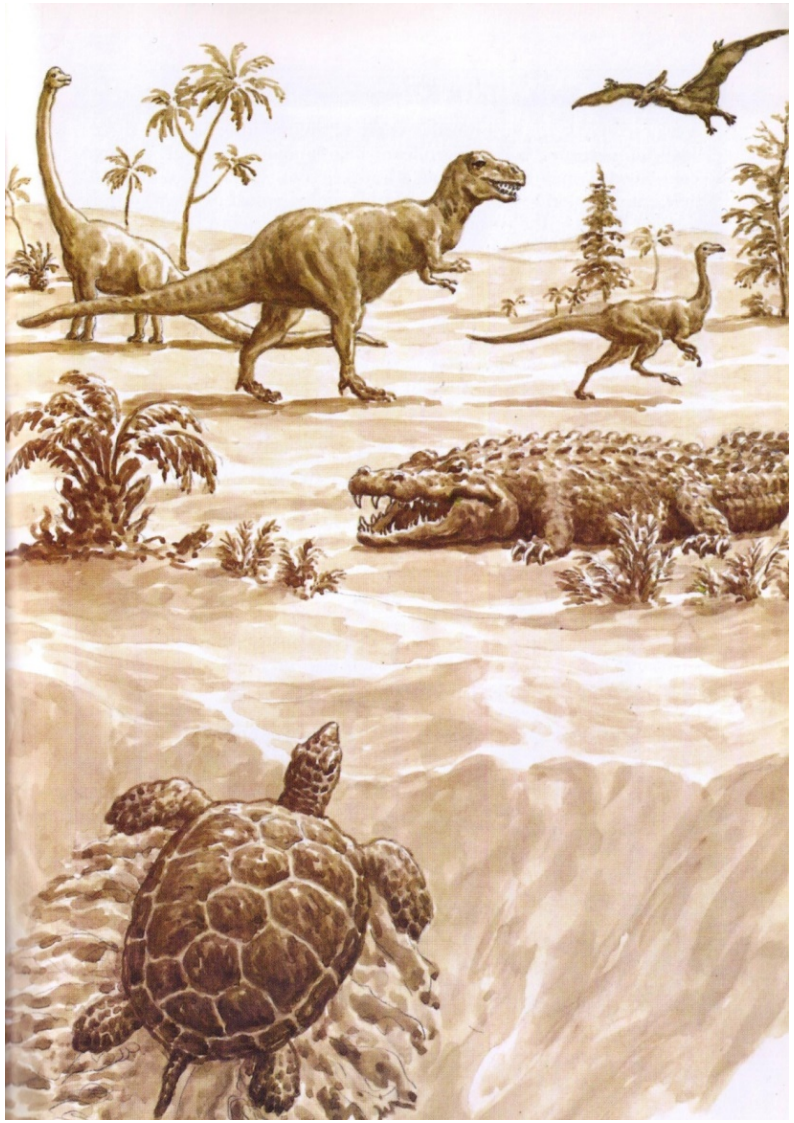
Antiquity 2021 page 1 of 17
https://doi.org/10.15184/aqy.2020.95

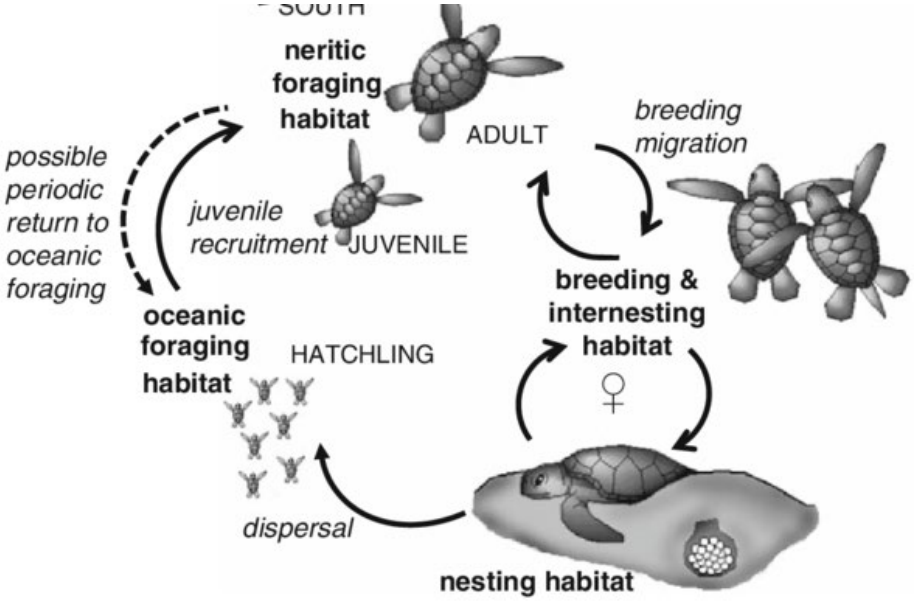
Research Article

Tracking turtles in the past: zooarchaeological evidence for human-turtle interactions in the ancient Eastern Mediterranean

Canan Çakırlar[1,*], Francis J. Koolstra[1] & Salima Ikram[2]

[1] Groningen Institute of Archaeology, University of Groningen, the Netherlands
[2] Department of Sociology, Egyptology and Anthropology, American University in Cairo, Egypt
* Author for correspondence: c.cakirlar@rug.nl




neritic foraging habitat
ADULT
breeding migration
possible periodic return to oceanic foraging
juvenile recruitment
JUVENILE
breeding & internesting habitat
oceanic foraging habitat
HATCHLING
dispersal
nesting habitat


Kinet Höyük
5
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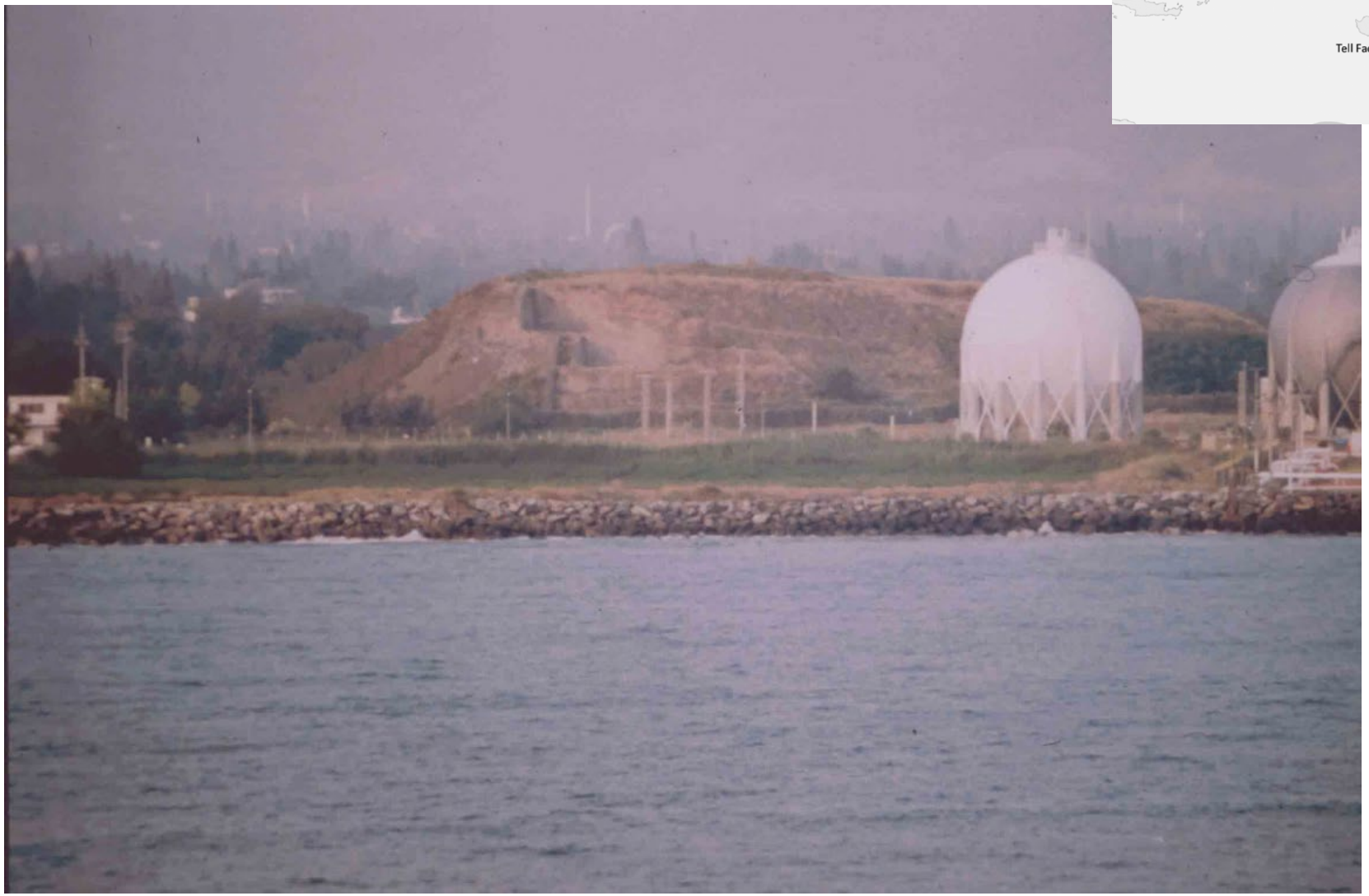
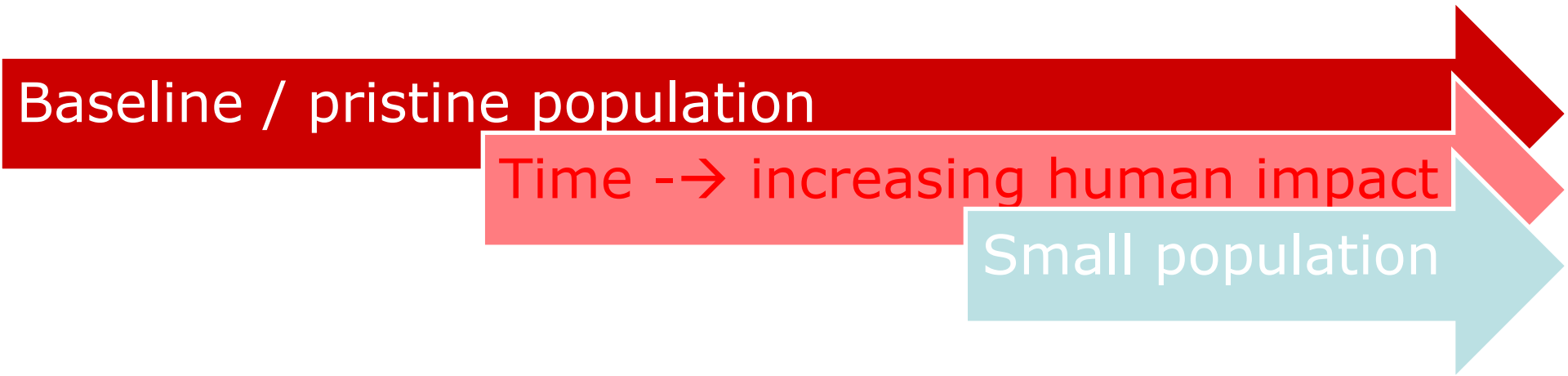
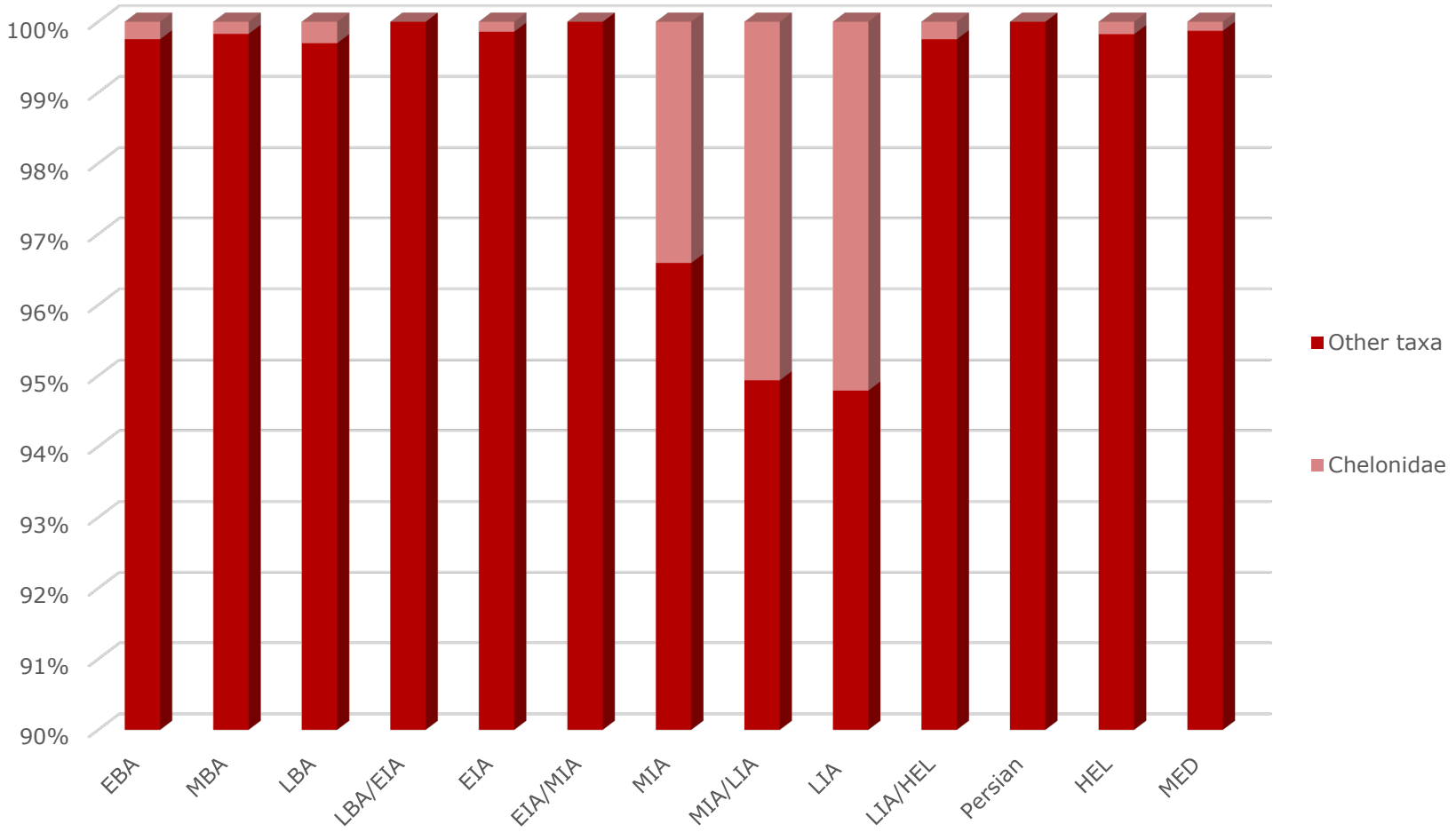
Tell Fadous-Kfarabida
11
Tell Burak
17
15



Kinet Höyük


Baseline / pristine population
Time -→ increasing human impact
Small population

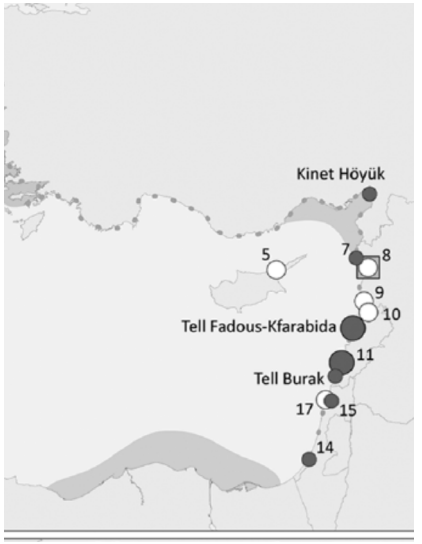
Largest 'catch effort' & 'size' : Middle to Late Iron Age



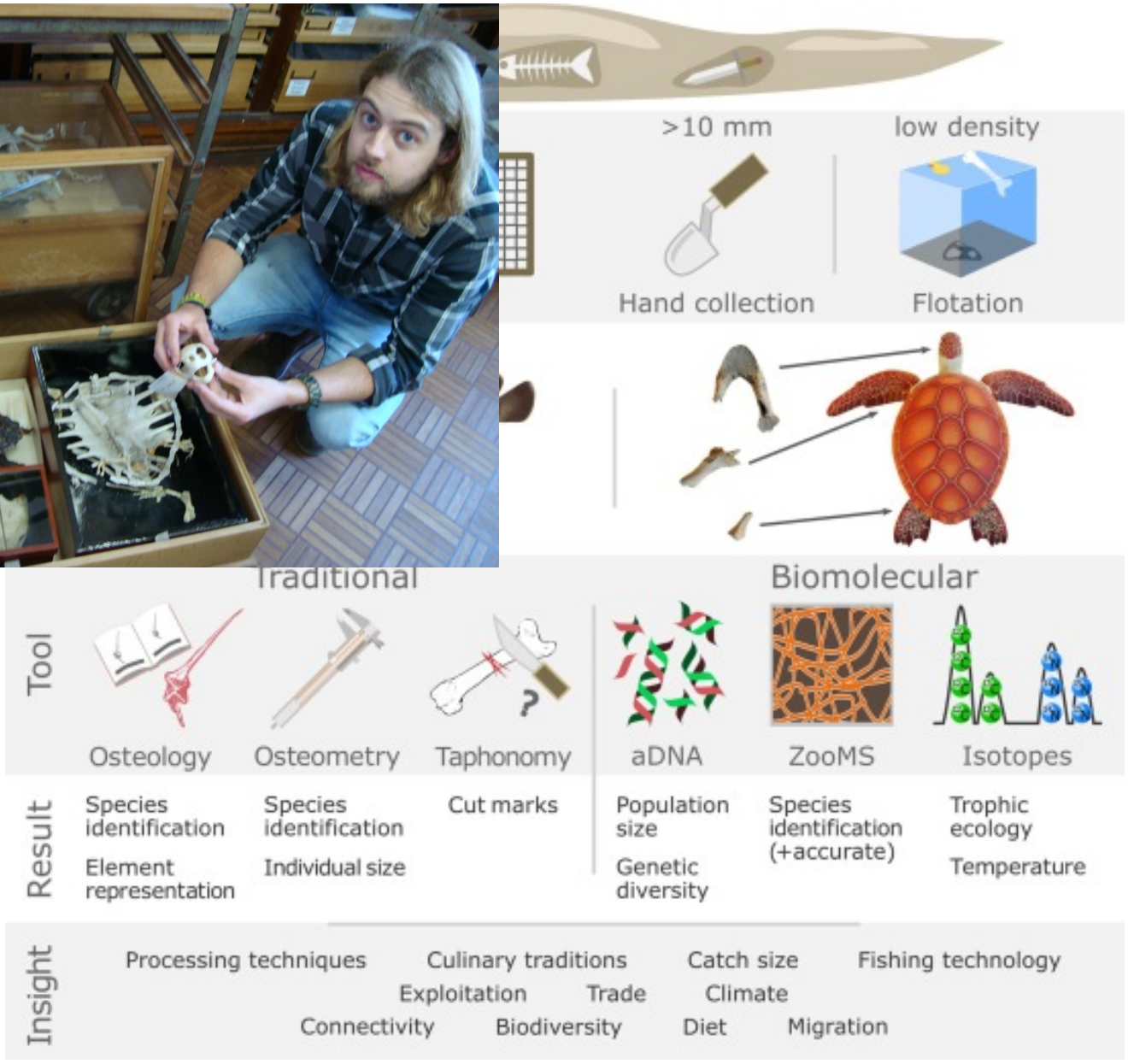
% of turtle remains through time at Kinet

university of groningen

Tell Fadous-Kfarabida, Early Bronze Age




1 cm



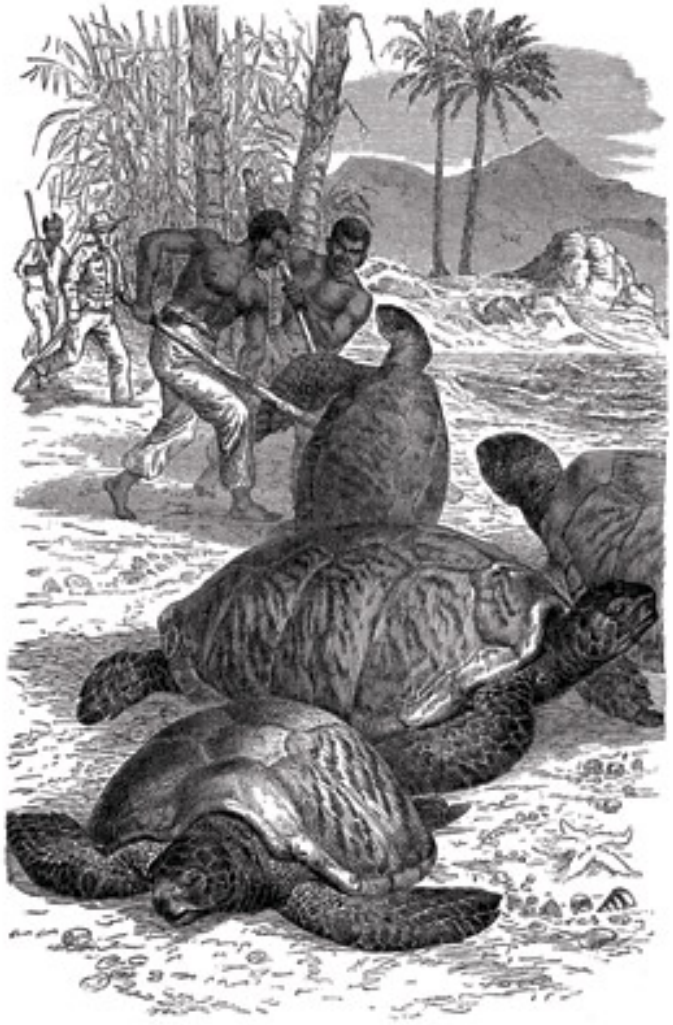
Winter, R., W. de Kock, P. Palsbol, C. Cakirlar. 2020. *JASR*

Green turtle (*Chelonia mydas*)

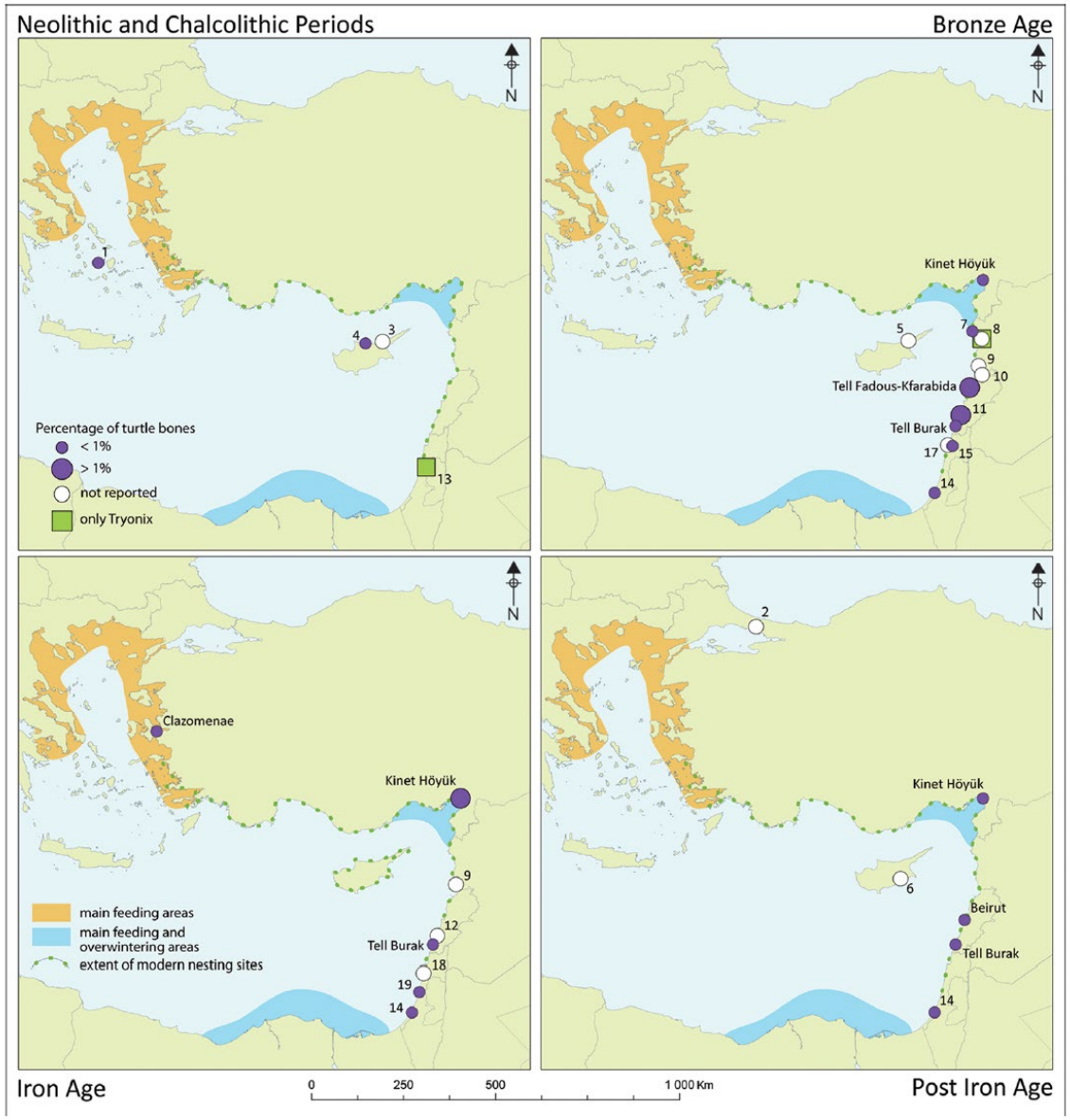
Loggerhead turtle (*Caretta caretta*)

Nile soft shelled turtle (*Trionyx triunguis*)

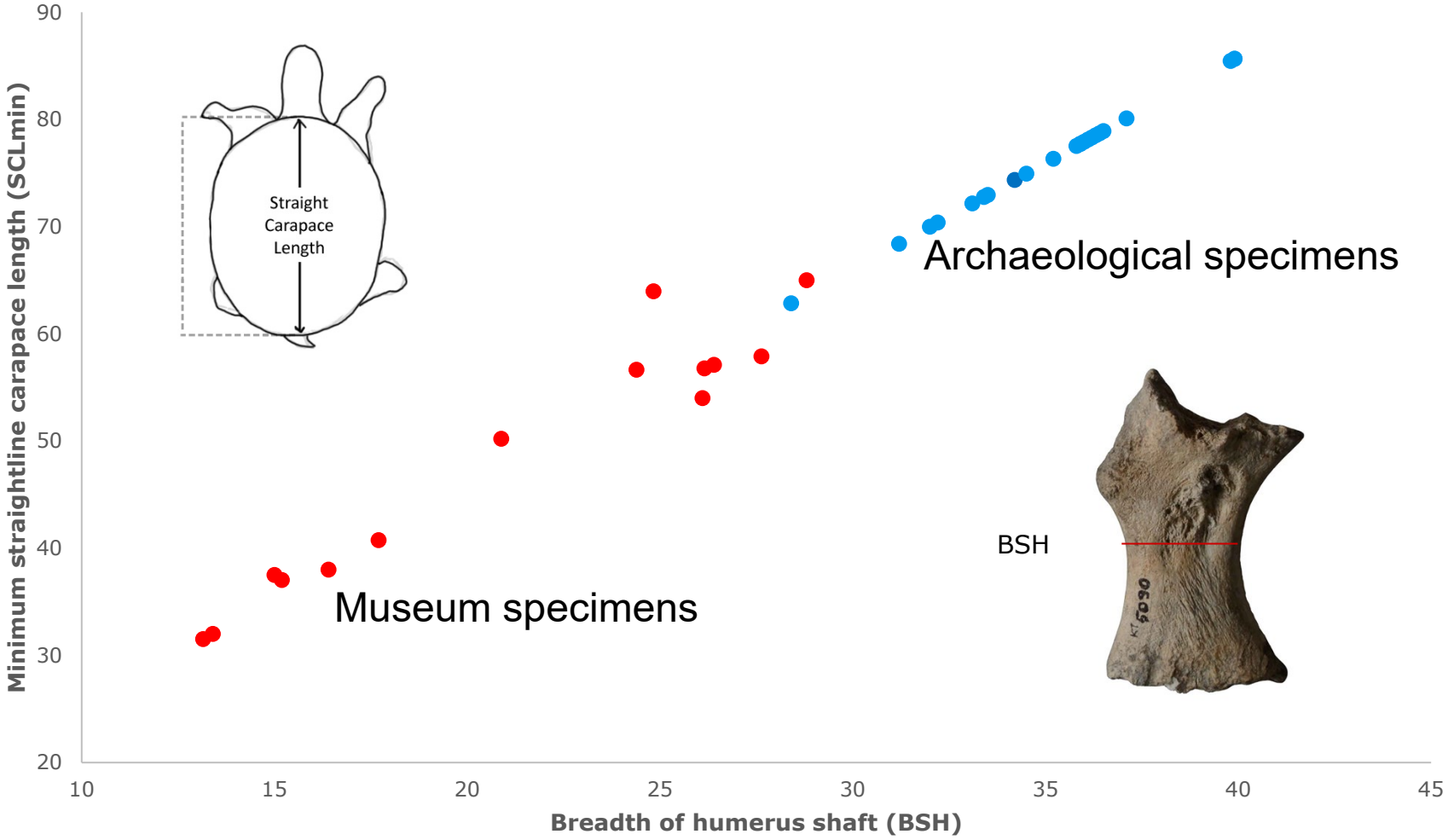
Dilmun stamp



Caribbean turtle turning

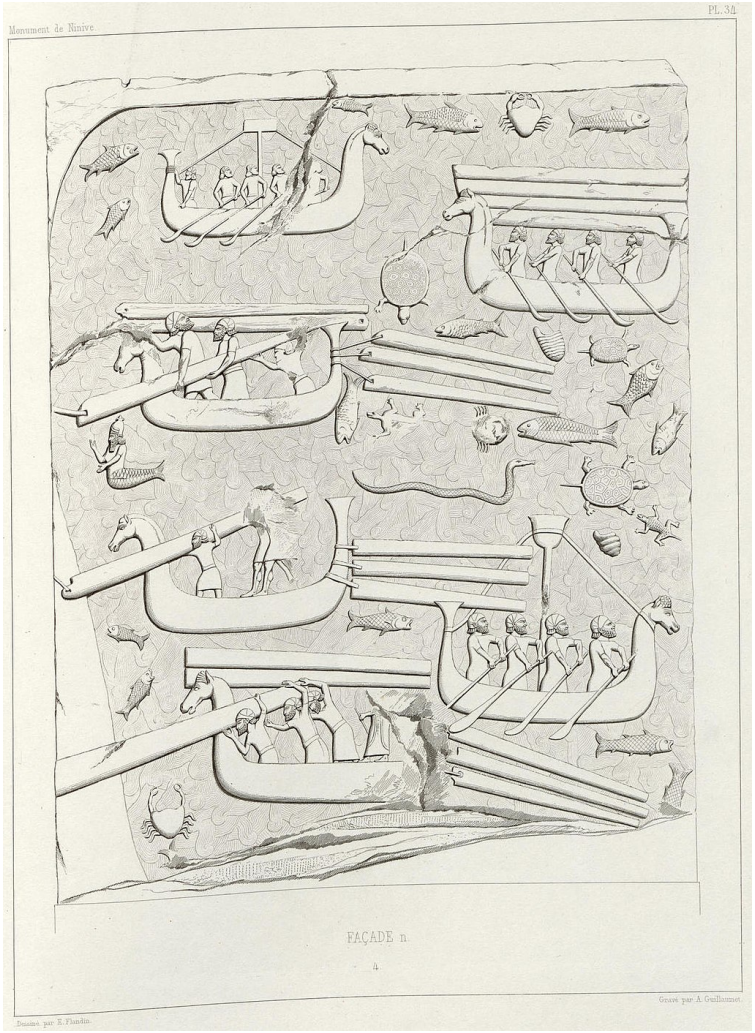


Distribution of archaeological sea turtle remains

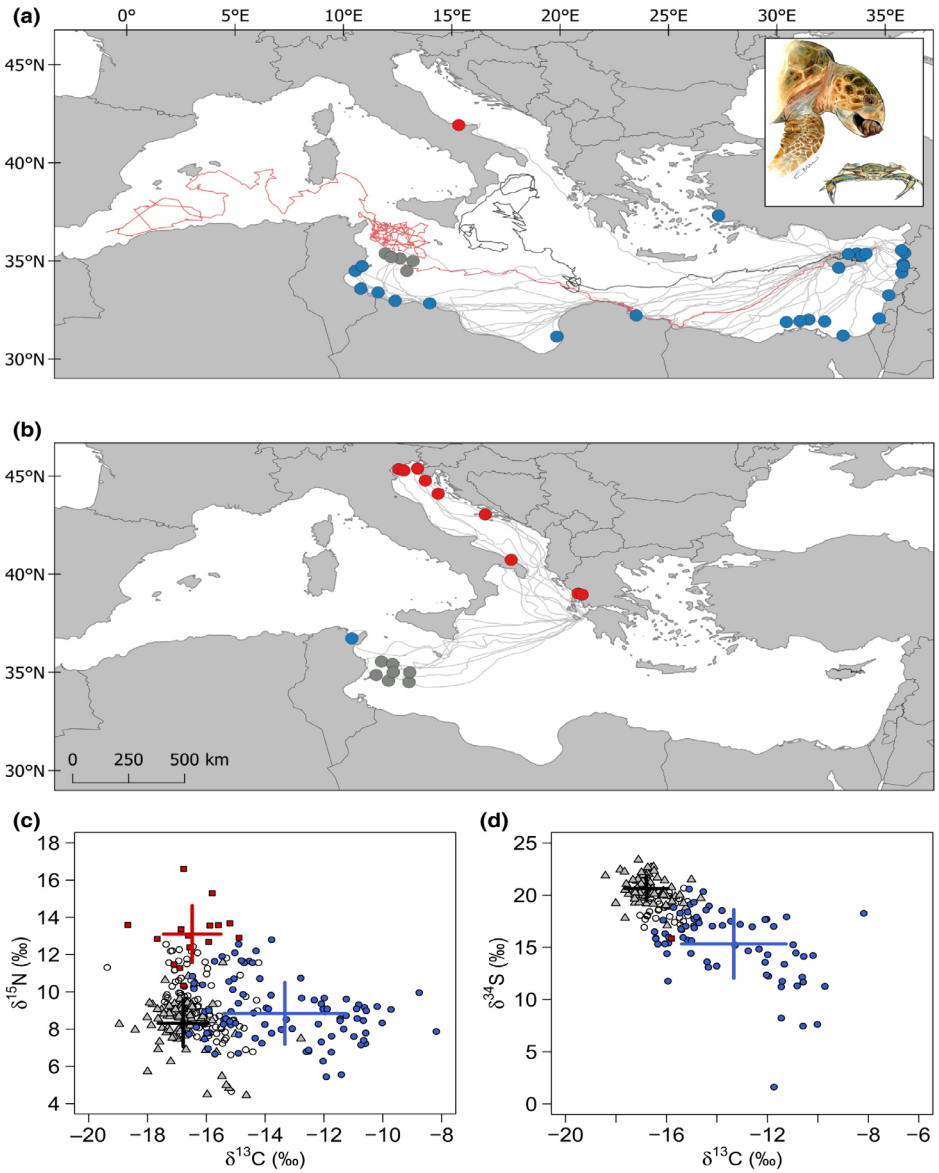


Green turtle size (c. age) reconstructions

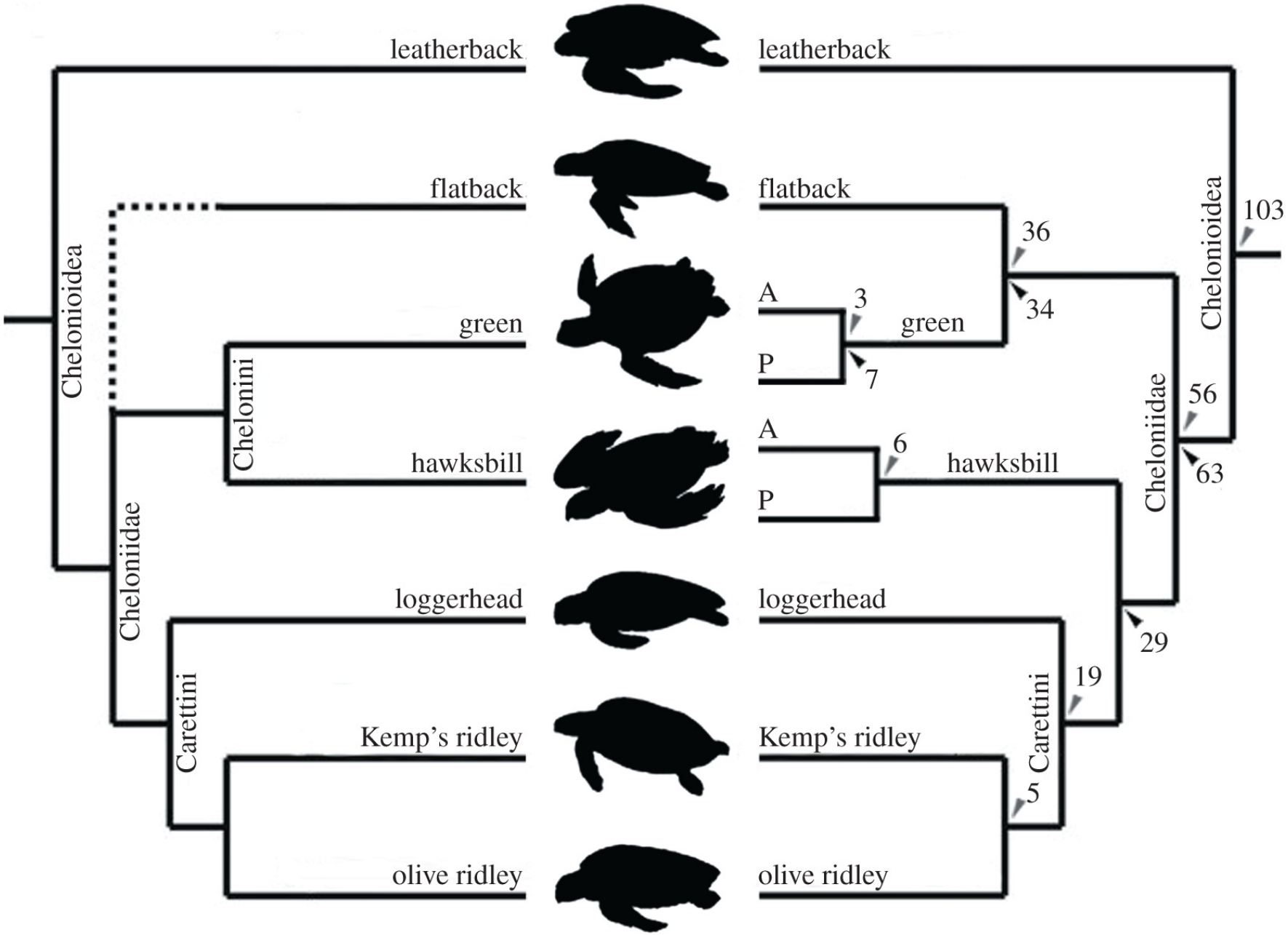

Esen Stream
Archaeological site
Iron Age–Classical
Period
Patara Plajı
Gelemiş
Turtles feed here



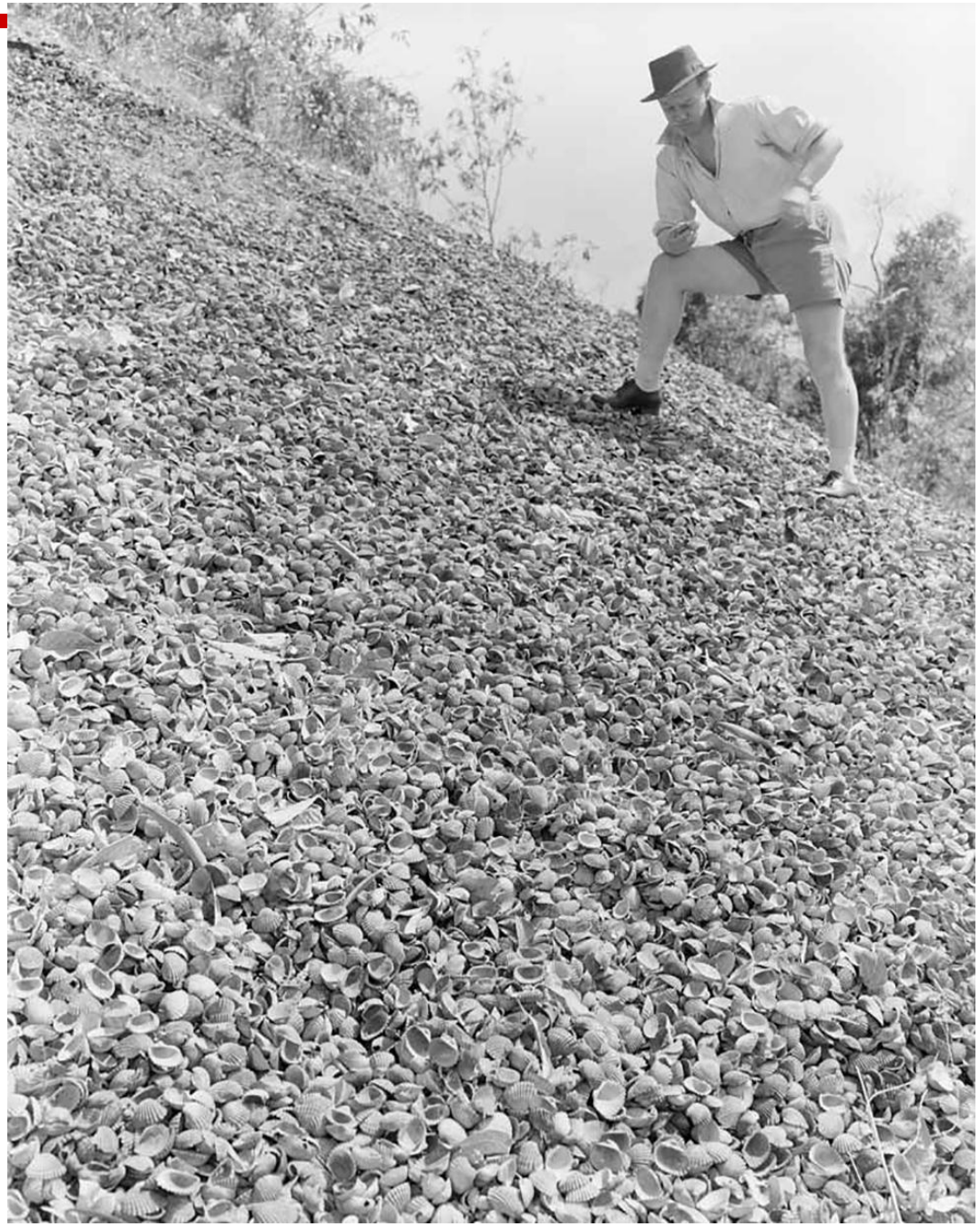
Khorsabad Relief, late 8th c. BCE



Diversity and Distributions, Volume: 26, Issue: 3, Pages: 368-381, First published: 21 January 2020, DOI: (10.1111/ddi.13023)

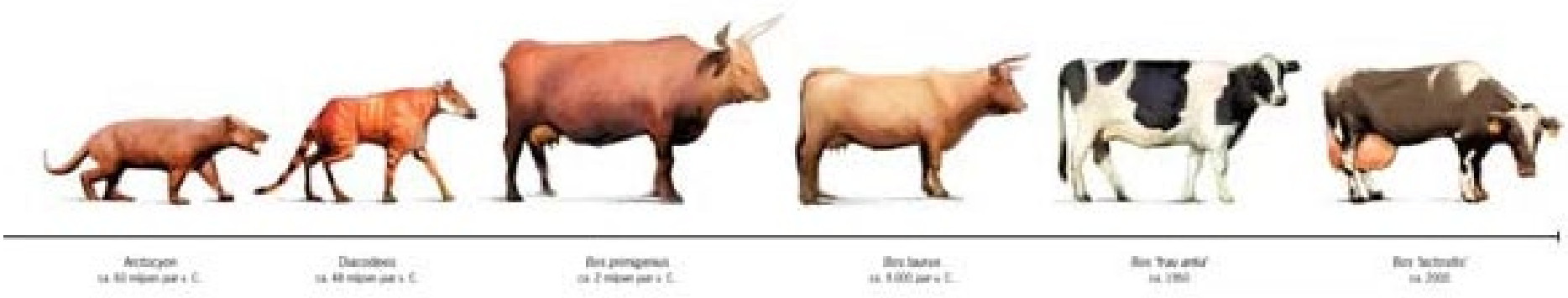

leatherback
flatback
green
hawksbill
loggerhead
Kemp's ridley
olive ridley
Chelonioidea
Cheloniidae
Chelonini
Carettini
leatherback
flatback
A
3
green
P
7
36
34
103
Chelonioidea
56
63
Cheloniidae
A
6
hawksbill
P
29
loggerhead
19
Carettini
Kemp's ridley
5
olive ridley


ATLAS RAPORU
KENTLERDE YAĞMUR HASADI
CESUR YENİ DÜNYA
FORDLÂNDIA
ZOOARKEOLOJİ: DENİZKAPLUMBAĞALARI
YE KIŞ TIRMANIŞI
YABAN-EVCİL ÇATIŞMASI

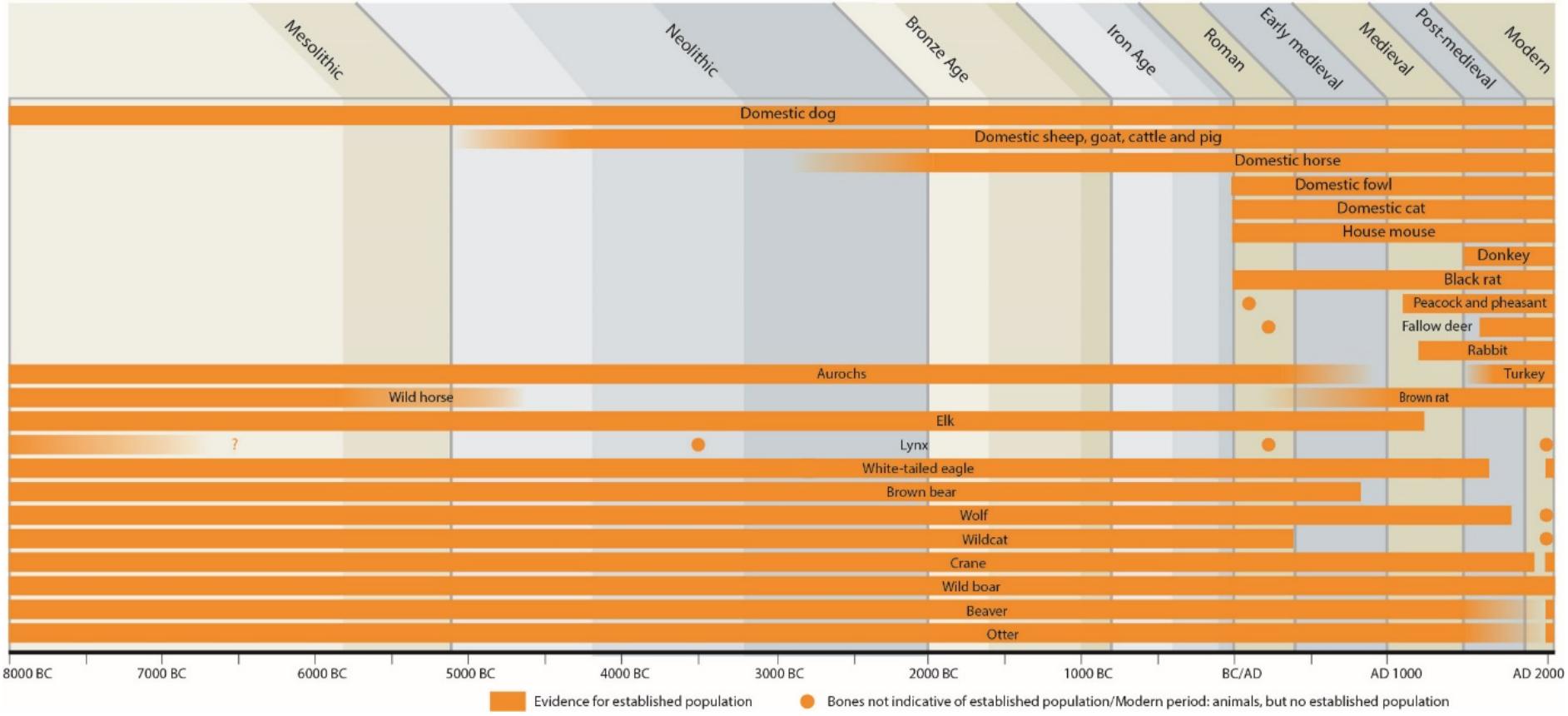


Weipa in Queensland, 1958.
(naa.gov.au)

evolutie van de kiloknaller

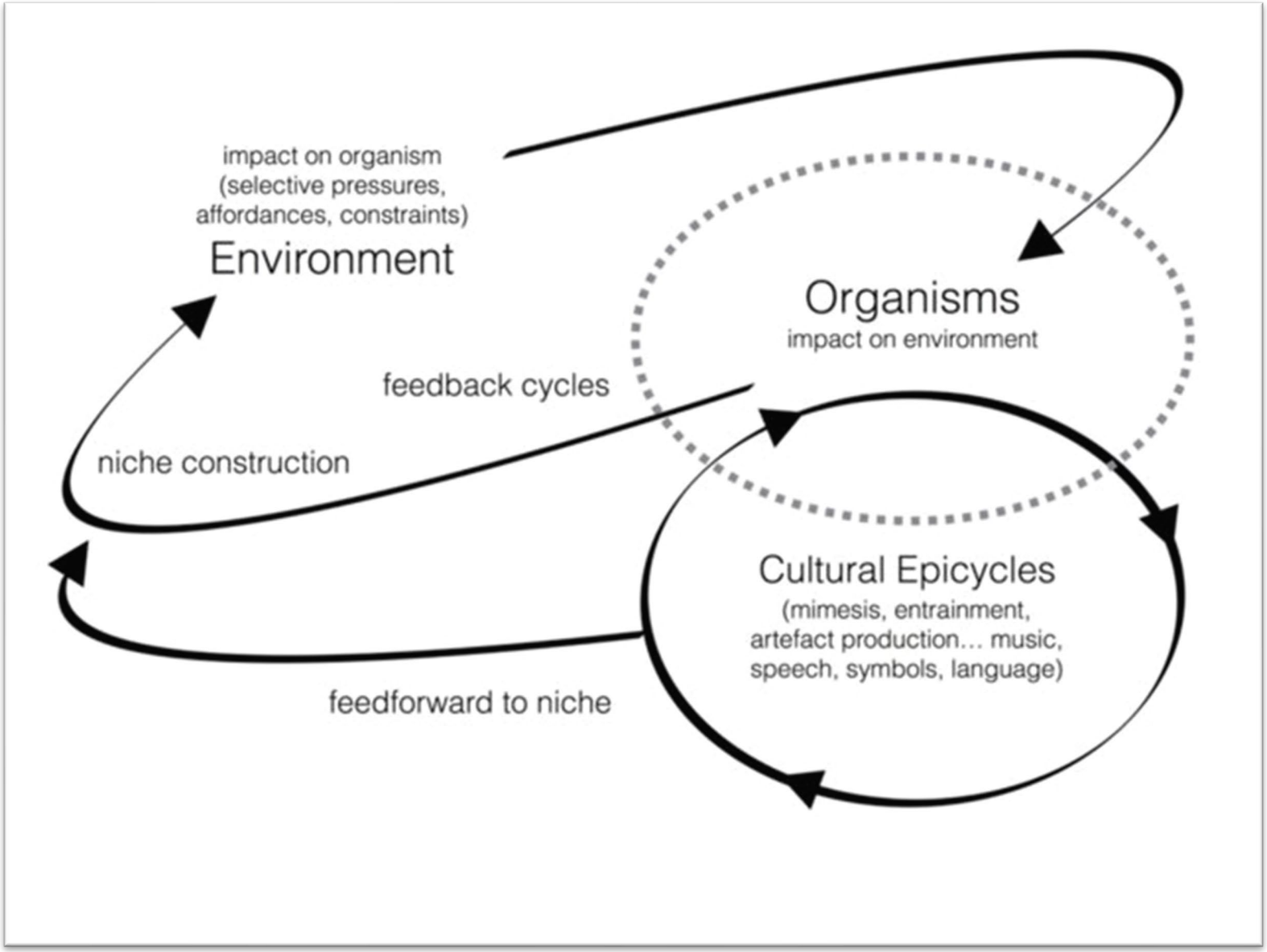


13,000 years ago, at the Hilly Flanks



Çakirlar, C., van den Hurk, Y., van der Jagt, I., van Amerongen, Y., Bakker, J., Breider, R., van Dijk, J., Esser, K., Groot, M., de Jong, T., Kootker, L., Steenhuisen, F., Zeiler, J., van Kolfschoten, T., Prummel, W. and Lauwerier, R., 2019. Animals and People in the Netherlands' Past: >50 Years of Archaeozoology in the Netherlands. *Open Quaternary*, 5(1).

Boivin, N., Crowther, A. Mobilizing the past to shape a better Anthropocene. Nat Ecol Evol 5, 273–284 (2021)



Van der Schyff & Schiavio 2017