Table 2: Condensed standardised data dictionary (a full version of this table can be found in Github.

Variable number	Variable Name	Variable Label	Variable Data Type	Allowed Values	Allowed Value Description
1	Data-collectors- name	Name of data collector	string	Carla Lancelotti, Celine Kerfant, Emma Karoune, Javier Ruiz-Pérez, Juan José García-Granero, Marco Madella	Names of all of the data collectors from this project
2	Journal-name	Name of the Journal the article is published in	string	A journal name	Any journal name that appeared in selected articles
3	Full-Reference- APA	Full reference for the article in APA style	string	APA journal citation	Full citation reference in APA format
4	Year	Year the article is first published online - not a full date	integer	2016, 2017, 2018, 2019, 2020	Five year range used for selecting articles in this study
5	Period/Date	Archaeological or palaoecological studies named period or date that appears in the article or modern for studies that only use modern plant material	string	A specific period or date, or modern	Open text box for period or date found in the text of the article. If a study conducted on modern plants then response should be modern
		Main study focus of the		Archaeological, Geochemical, Ecology, Methodological - modern reference, Methodological - morphometric, Methodological - ethnographic, Methodological - extraction method, Methodological - isotopes, Methodological - taphonomy, Methodological - radiocarbon, Palaeoecology,	Categories of types of studies that use phytolith
6	Type-of-study	Main study focus of the article	string	radiocarbon,	types of stu

				Plant Physiology	
7	Geographic-loc ation	Geographic location of study	string	A country/countries or region name	Country or region that was within the text of the article - standardised using geonames
8	oa_status	Open access status of the article	string	Green, Gold, Hybrid, Bronze, Diamond, Closed	unpaywall categories used but with addition of diamond
9	Journal-type	Type of journal	string	Open, Hybrid, Closed	
10	What-article-rep ository	Repository used for green open access articles	string	Arxiv, Bioarxiv, EarthArXiv, EcoEvoRxiv, F1000 research, Figshare, OSF Preprints, Palaeorxiv, PeerJ Preprints, Preprints.org, University or Institution repository, WikiJournal Preprints, Zenodo, None-gold, None-diamond, None-not-oa	None-gold = gold open access and also includes a few bronze oa articles, None-not-oa = not open access
11	Is it in a signed up repository?	Whether the article was placed on a repository such as ResearchGate or Academia, rather than a trusted research repository or pre-print server	string	Research gate Academia	
12	Processing-met hod-communica tion	Extent of detail the method written in the article or attached to the article	string	Summary of method, Full protocol in the text/supplementary, Full protocol in repository, One reference to specific protocol, One reference generic ref/Multiple reference,	

No method reported	
Can the assessor	
replicate exactly what Yes,	
Counting-metho was counted on the No,	
13 d-is-replicable phytolith slide? string Not applicable	
Is there a description of	
the instrument	
(microscope) used for Yes,	
Instrument-used phytolith counting or No 14 -described other analysis? boolean	
ICPN 1.0,	
ICPN 2.0,	
MU Phytolith Classifi	cation
System,	
Bertoli 2013,	
Nomenclature-u Was a name phytolith Zucol & Brea 2005,	
15 sed nomenclature used? string Not specified/not clear	ar
	Yes = fully used,
Ligare the surround the	No = not fully
Have they used the standardised Yes,	used, Not used = not used either
Have they used nomenclature fully? No,	ICPN 1.0 or
16 it fully? ICPN1.0 or ICPN 2.0 boolean Not used	ICPN 2.0
No data,	
Data in text of article	,
Where is the data Data in supplementa	·
located in the article, Data in repository with	
supplementary material Data in repository wit	thout
17 Data-location or repository? string DOI,	
ADS,	
Code Ocean,	
Dataverse, Dryad,	
Zenodo,	
Figshare,	
GitHub,	
Mendeley,	
Neotoma,	
Open Context, Open Science Frame	owork
	₹WUIK. I
Pangaea, What-data-repo What data repository is tDAR,	

		T		1	
19	Data-type	What type of data is in the article?	string	i) Raw counts, ii) Raw counts + processing weights, iii) Presence/absence, iv) Relative presence/percentages, v) Mean or range, vi) Summary data - plant groupings, vii) Unclear what is presented/provided, viii) No data provided in a table - only graph, ix) No data provided	
				No data, In text of article, .pdf,	
20	Data-format	What type of data file format?	string	.doc, .xslx, .csv	
21	Data-availability -statement	How is the data made accessible in the data availability statement?	string	None, Data on request, All data included, Dataset link to repository with DOI, Data paper with DOI	
22	Data-license	What license is on the data, if the data is in a repository	string	Data not available = not in repository, No license, CC-0, CC BY	
23	Pictures or photos included for identifications	Are all, significant morphotypes or no photos included in the article	string	None, Only significant ones, All	
24	Statistical-softw are-used	Names of the statistical software packages named in the articles	string	Any software package named in the article used for statistical analysis	
25	Other-comment s	Open text box for additional comment from data collectors	string	N/A	N/A