Supplementary Information

The 4.2 ka event is not remarkable in the context of Holocene climate variability

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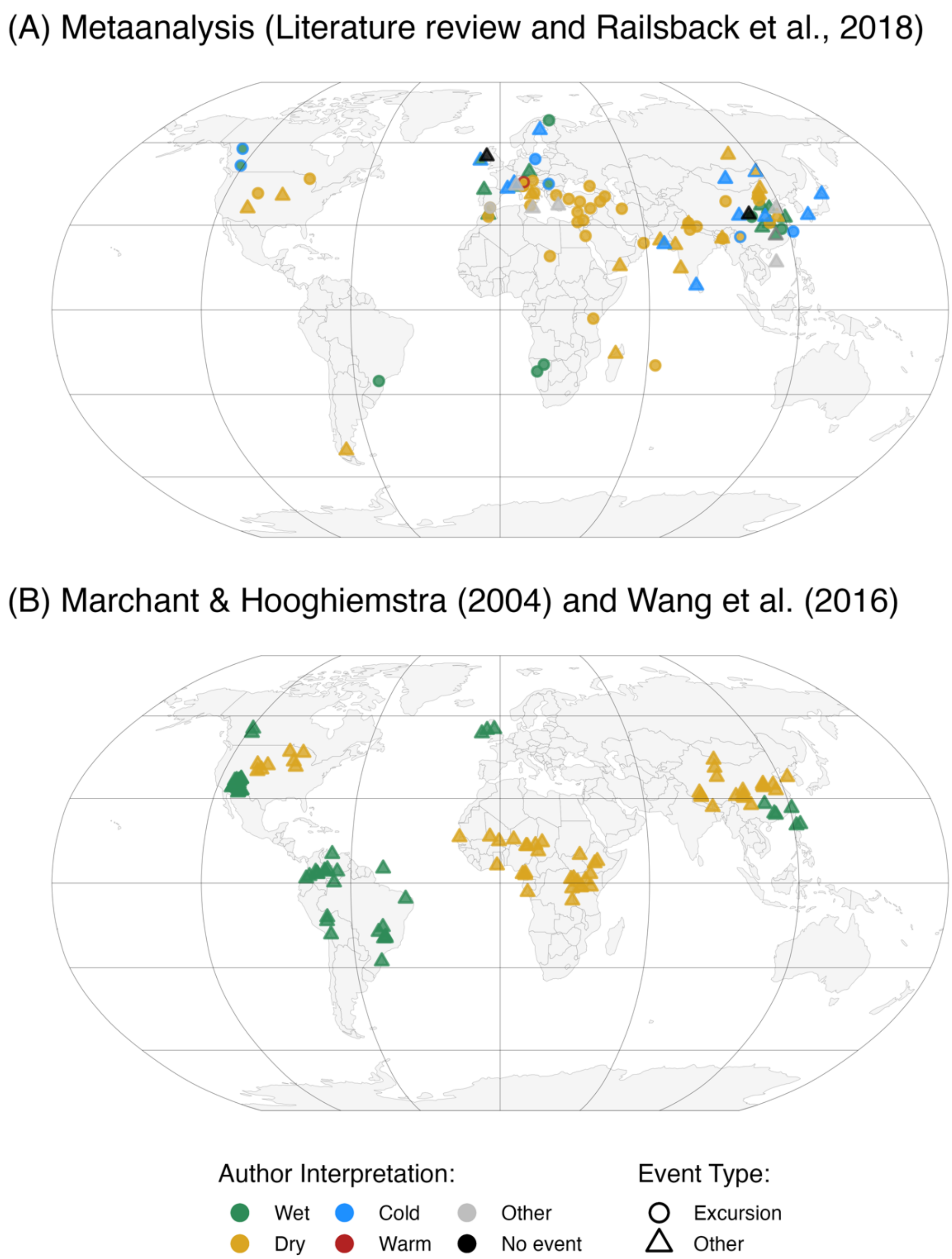


Fig. S1. *Map of proxy records describing the 4.2 event in our meta-analysis. Colors indicate the climate response described by the original author. If both temperature and hydroclimate are described, this multivariate response is shown by differing edge and fill colors. Circles show datasets interpreted as excursions; all other change types shown as triangles. Black indicates where the authors specifically indicate that no 4.2 ka event occurred in the record. Gray circles indicate that the authors did not interpret a definitive wet/dry or warm/cold expression of the 4.2 event. Other indicates where authors described a change in climate other than temperature or hydroclimate.*

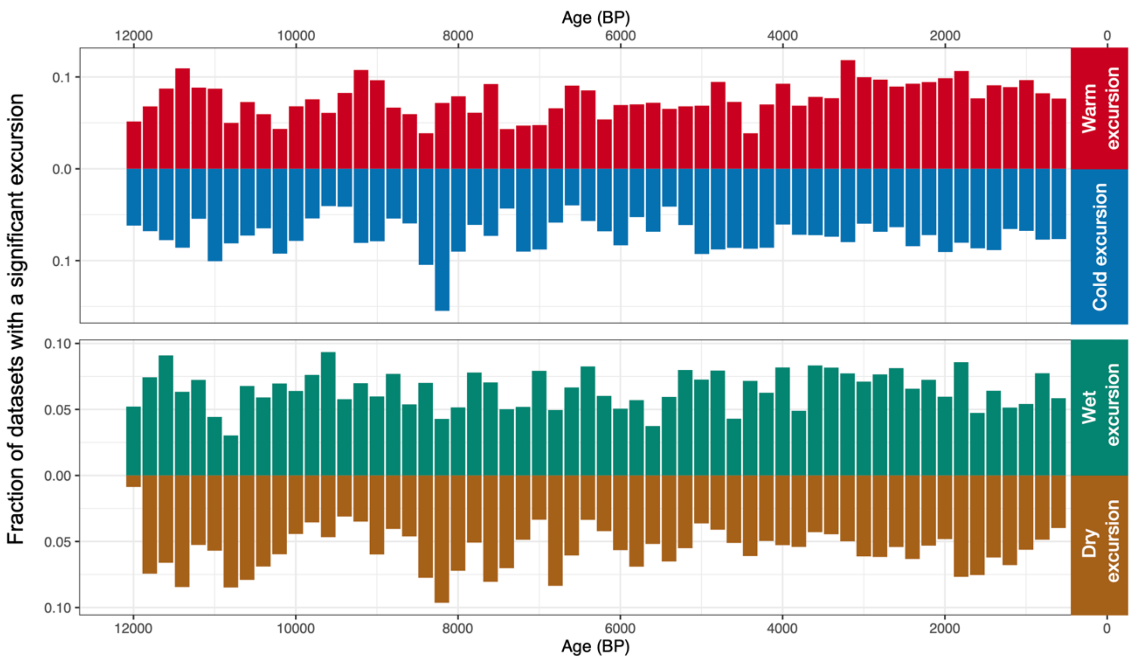
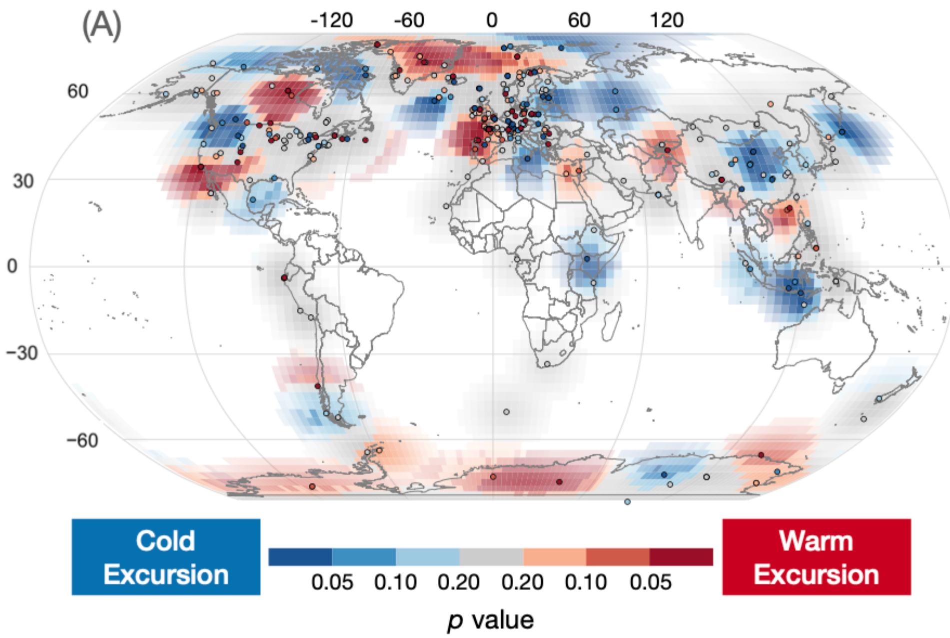


Fig. S2. *Fraction of datasets with at least one significant ($p < 0.05$) climate excursion through the Holocene. This figure differs from Figure 3 in that it does not consider spatial weighting, show the fraction of significant results in the parametric ensemble or significance beyond the site-level. Each bar simply shows the fraction of significant ($p < 0.05$) warm, cold, wet and dry excursions in 400 +/- 100 year windows. The axes for cold and dry excursions are inverted. The excursion detection analysis is repeated in 200-year intervals across the Holocene*

Fig. S3. *Spatial expression of moisture (columns 1 and 3) and temperature (columns 2 and 4) excursions for 200-yr sliding windows from 12,000 to 600 yr BP. Time period labels correspond to hydroclimate map immediately below each label, and the adjacent temperature map to the right. The grid shading indicates the significance of regional net excursions. Darker red indicates more significant net temperature excursions (i.e., the number of warm excursions in a region significantly exceeds the number of cold excursions). Blue colors indicate regions where cold excursions significantly exceed the number of warm excursions. Green (wet) and brown (dry) colors express regional net excursions for hydroclimate. Colored dots show the location of records with significant excursions at the 0.05 level, colored similarly to grid shading. White circles indicate no significant excursions at a site for the specified time period.*



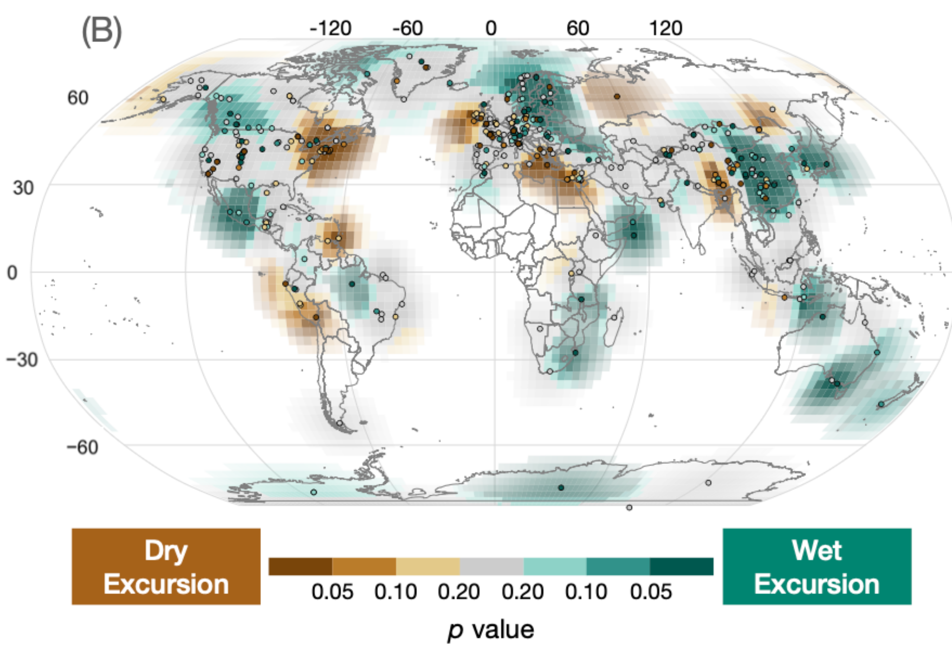


Fig. S4. *Spatial expression of the most significant temperature (A) and moisture (B) excursions found at 4.0 or 4.2 ka. At each site and for each variable, the most significant excursion in either direction was selected before calculating regional net excursions as in Fig 3. The grid shading indicates the significance of regional net excursions. Darker red indicates more significant net temperature excursions (i.e., the number of warm excursions in a region significantly exceeds the number of cold excursions). Blue colors indicate regions where cold excursions significantly exceed the number of warm excursions. Green (wet) and brown (dry) colors express regional net excursions for hydroclimate. Colored dots show the location of records with significant excursions at the 0.05 level, colored similarly to grid shading. White circles indicate no significant excursions at a site for the specified time period.*

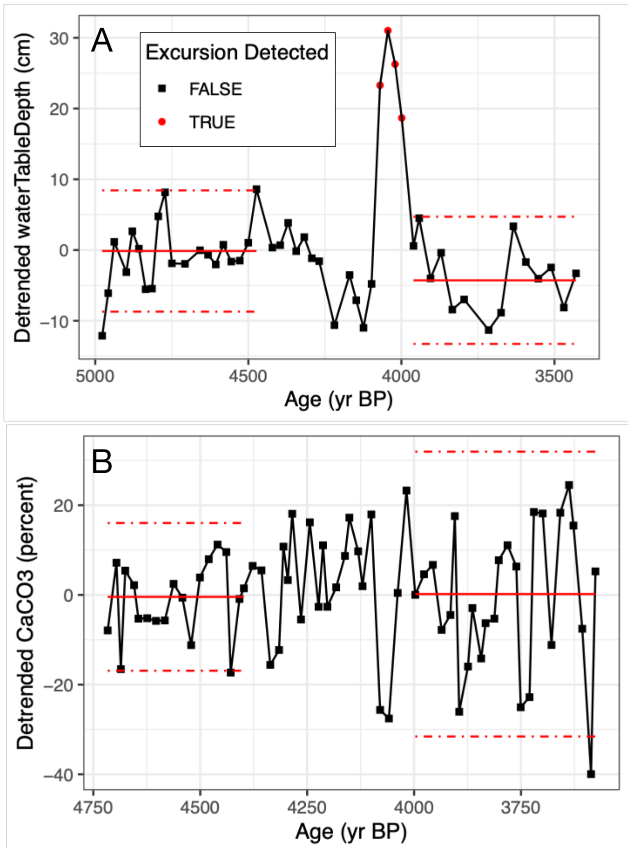


Fig. S5. *Examples of the excursion detection algorithm applied to two segments of proxy climate timeseries: (A) water table depth inferred from testate amoeba (Booth et al., 2005) and (B) effective precipitation inferred from CaCO3 concentration (Hodell et al., 1995). The red solid and dashed lines represent the mean and 2σ ranges of the reference windows. In panel A, an excursion is identified as four consecutive observations in the event window exceed the reference range. In panel B, no excursion is identified.*

Table S1. Results of metanalysis, including reference to paper, site metadata, and interpreted timing, duration and climate interpretation of the 4.2 ka event.

Reference	Source	Site name	Lat (°)	Lon (°)	Archive	Proxy	Change type	Climate signal	Excursion start (ka)	Excursion end (ka)
Amekawa et al. (2016)	Literature search	Bagasra (BSR7)	23.3	67.5	Marine sediment	d18O	Indeterminant: 3 year record	Cold		
An et al. (2021)	Literature search	Multiple Haidai region	36.0	118.0	Terrestrial sediment	Macrofossils (botanical)	Event stratigraphy	Assumed deterioration		
Arenas et al. (2022)	Literature search	Cañada de La Enfermería	24.2	-110.3	Mollusk	d18O	Indeterminant: no overlap with 4.2 ka	No overlap with 4.2 ka		
Arz et al. (2006)	Railsback et al. 2018	GeoB5846-2	26.2	35.4	Marine sediment	d18O	Excursion	Dry	4.20	4.05
Azennoud et al. (2022)	Literature search	Saiss Basin	33.7	-5.0	Terrestrial sediment	Tufa	Hiatus	Wet		
Bar-Matthews et al. (1999)	Railsback et al. 2018	Soreq Cave	31.8	35.0	Speleothem	d18O	Excursion	Dry	4.2	4.0
Berger et al. (2012)	Literature search	Hadramawt	15.5	48.6	Terrestrial sediment	Statigraphy	Event stratigraphy	Dry		
Berkelhammer et al. (2012)	Railsback et al. 2018	Mawmluh Cave (KM-A)	25.3	91.9	Speleothem	d18O	Excursion	Dry	4.1	3.9
Bliedtner et al. (2022)	Literature search	Shireet Naiman Nuur	46.5	101.8	Lake sediment	Multiple	Mean shift	Cold		
Booth et al. (2004)	Railsback et al. 2018	South Rhody Peatland	46.6	-86.1	Peat	Testate amoebae	Excursion	Dry	4.1	4.0
Booth et al. (2005)	Literature search	Multiple mid-west North America	40.5	-95.0	Terrestrial sediment	Dune	Event stratigraphy	Dry		
Brisset et al. (2012)	Literature search	Lac Petit	44.1	7.2	Lake sediment	pollen	Not climate	Not climate		
Carolin et al. (2019)	Literature search	Gol-e-Zard cave	35.8	52.0	Speleothem	Mg/Ca	Excursion	Dry	4.26	3.97
Chase et al. (2009)	Railsback et al. 2018	Spitzkoppe	-21.8	15.2	Midden	d15N	Excursion	Wet	4.15	3.50
Cheng et al. (2021)	Literature search	Multiple China			Speleothem	Multiple	Various	Various		
Cheng et al. (2023)	Literature search	Subei Plain (SPM1)	32.7	120.2	Terrestrial sediment	Multiple	Mean shift	Wet		
Comas-Bru et al. (2022)	Literature search	Multiple global			Speleothem	Multiple	Various	Various		
Constantin et al. (2007)	Railsback et al. 2018	Poleva Cave	44.7	21.8	Speleothem	d18O	Excursion	Wet & cold	4.4	4.2
Cullen et al. (2000)	Railsback et al. 2018	Core M5-422	23.7	59.0	Marine sediment	Dolomite %	Excursion	Dry	4.1	3.9
Dang et al. (2020)	Literature search	Yongxing Island	16.8	112.3	Coral	Growth rate	Variablity shift	ENSO variance		
Dean et al. (2015)	Literature search	Nar Gölü	38.3	34.5	Lake sediment	d18O & mineralogy	Excursion	Dry	4.30	4.15
Di Rita & Magri (2019)	Literature search	Multiple central Mediterranean	37.0	13.0	Lake sediment	Pollen	Excursion	Dry		
Di Rita & Magri (2019)	Literature search	Multiple central Mediterranean	44.0	9.0	Lake sediment	Pollen	No event	NA		
Di Rita et al. (2018)	Literature search	Gulf of Gaeta	41.0	13.8	Marine sediment	Pollen	Mean shift	Dry		
Di Rita et al. (2022)	Literature search	Crovani Pond	42.5	8.7	Lake sediment	Pollen	No event	NA		
Drake et al. (2012)	Literature search	Chaco Canyon	36.0	-108.0	Midden	Pollen	Mean shift	Dry		
Drysdale (2006)	Railsback et al. 2018	Buca della Renella	44.0	10.2	Speleothem	Mg/Ca	Excursion	Dry	4.1	3.8
Dutt et al. (2021)	Literature search	Multiple India			Multiple	Multiple	Various	Various		
Fedotov et al. (2021)	Literature search	Lake Frolikha	55.4	110.0	Lake sediment	Multiple	Inflection	Dry		
Gao et al. (2022)	Literature search	Multiple	37.0	112.0	Terrestrial sediment	Flood frequency	Event stratigraphy	Wet		
Geirsdottir et al. (2019)	Literature search	Multiple Iceland	65.0	21.0	Lake sediment	Multiple	Mean shift	Cold		
Grachev et al. (2021)	Literature search	Lake Khuko	43.9	39.8	Lake sediment	Multiple	Excursion	Dry	4.2	3.5
Groucutt et al. (2022)	Literature search	Multiple Malta	36.0	14.0	Terrestrial sediment	Archaeological	Various	Various		
Hazell et al. (2022)	Literature search	Akrotiri Marsh	34.6	32.9	Terrestrial sediment	Pollen & diatom	Excursion	Dry	4.6	4.2
Hazell et al. (2022)	Literature search	Multiple eastern Mediterranean			Multiple	Multiple	Various	Various		
He et al. (2022)	Literature search	Multiple China			Terrestrial sediment	Macrofossils (botanical)	Event stratigraphy	Assumed deterioration		
Helama and Oinonen (2019)	Literature search	Finnish Lapland	69.0	27.0	Wood	d13C	Excursion	Wet	4.14	4.05
Hu et al. (2020)	Literature search	Xisha Islands	17.1	113.5	Mollusk	d18O	Indeterminant: 40-yr record around 3.7 ka	No overlap with 4.2 ka		
Isola et al. (2019)	Literature search	Corchia Cave (CC27)	44.0	10.3	Speleothem	Multiple	Excursion	Dry	4.5	4.1
Jaffe et al. (2021)	Literature search	Multiple China			Terrestrial sediment	Archaeological	Various	Various		
Jalali and Sicre (2019)	Literature search	KSGC-31	43.0	3.3	Marine sediment	Uk37	Mean shift	Cold		
Jarriel (2021)	Literature search	Cycladic islands	37.0	25.0	Multiple	Archaeological	Event stratigraphy	Assumed deterioration		
Jia et al. (2021)	Literature search	Sanfangwan	30.8	113.1	Terrestrial sediment	Pollen	Event stratigraphy	Wet		
Jia et al. (2021)	Literature search	Nanyang Basin	33.0	112.0	Terrestrial sediment	Macrofossils	Mean shift	Cold		
Jordan et al. (2017)	Search & Railsback et al. 2018	Spiddal (Galway)	53.2	-9.3	Peat	n-Alkane	Indeterminant: single point in low-resolution record	Wet & cold		

Table S1. Results of metanalysis, including reference to paper, site metadata, and interpreted timing, duration and climate interpretation of the 4.2 ka event.

Reference	Source	Site name	Lat (°)	Lon (°)	Archive	Proxy	Change type	Climate signal	Excursion start (ka)	Excursion end (ka)
Kajita et al. (2018)	Literature search	MD06-3040 (Yangtze Delta)	27.7	121.8	Marine sediment	Uk37	Excursion	Cold	4.4	3.8
Kajita et al. (2023)	Literature search	HIUB1–1 (Hakata Bay)	33.7	130.4	Marine sediment	Uk37	Mean shift	Cold		
Kang et al., (2023)	Literature search	HSL (Hunshandake Sandy Land)	43.0	115.0	Terrestrial sediment	Dune	Mean shift	Dry		
Kathayat et al. (2018)	Literature search	Mawmluh Cave (ML.1 & ML.2)	25.3	91.7	Speleothem	d18O & d13C	Mean shift	Dry		
Kawahata (2019)	Literature search	Mutsu Bay	41.0	140.8	Marine sediment	Uk37	Mean shift	Cold		
Kotlia and Joshi (2013)	Literature search	Badanital Lake	30.5	78.9	Lake sediment	Multiple	Mean shift	Dry		
Kropelin et al. (2008)	Railsback et al. 2018	Lake Yoa	19.0	20.3	Lake sediment	MS	Excursion	Dry	4.2	4.0
Laskar and Bohra (2021)	Literature search	Multiple India			Multiple	Multiple	Various	Various		
Le Roy et al. (2017)	Literature search	Ecrins-Pelvoux Massif	44.9	6.3	Moraines	Be10	Mean shift	Cold		
Lemcke and Sturm (1997)	Railsback et al. 2018	Lake Van	38.4	43.2	Lake sediment	Quartz %	Excursion	Dry	4.25	4.05
Li et al. (2018)	Literature search	La Vierge Cave (Rodrigues Island)	-19.7	63.4	Speleothem	d18O & d13C	Excursion	Dry	3.9	3.5
Li et al. (2021)	Literature search	Multiple	36.0	115.0	Terrestrial sediment	Flood frequency	Event stratigraphy	Wet		
Liefert and Shuman (2022)	Literature search	Highway 130 Lake (HL)	41.4	-106.2	Lake sediment	d18O	Excursion	Dry	4.2	4.0
Lin et al. (2022)	Literature search	Lake Tianchi	25.9	99.3	Lake sediment	Pollen	Excursion	Dry & cold	4.5	3.9
Liu and Feng (2012)	Search & Railsback et al. 2018	Multiple China			Multiple	Multiple	Various	Various		
Magny et al. (2009)	Literature search	Lakes Accesa and Maliq	41.5	15.0	Lake sediment	Stratigraphy	Excursion	Dry	4.1	3.95
Menounos et al. (2008)	Railsback et al. 2018	Redbarrel Lake	51.4	-121.2	Lake sediment	LOI	Excursion	Wet & cold	4.3	4.1
Menounos et al. (2008)	Railsback et al. 2018	Green Lake	57.7	-126.7	Lake sediment	LOI	Excursion	Wet & cold	4.4	4.0
Mischke and Zhang (2010)	Literature search	Lake Ximencuo	33.4	101.1	Lake sediment	Multiple	Mean shift	Cold		
Nakamura et al. (2016)	Search & Railsback et al. 2018	Lake Rara	29.5	82.1	Lake sediment	Mn/Ti & Mn/Fe	Excursion	Dry	4.2	3.7
Nichols (2021)	Literature search	Multiple Sibera			Multiple	Archaeological	Event stratigraphy	Assumed deterioration		
O'Donnell et al. (2020)	Literature search	Vung Tha	20.3	105.9	Terrestrial sediment	Pollen	Hiatus	Not stated		
Ocakoglu et al. (2019)	Literature search	Kureysler Valley (KS-6 and KS-4)	39.3	29.8	Lake sediment	Multiple	Excursion	Dry	4.6	4.0
Ohlendorf et al, (2014)	Search & Railsback et al. 2018	Laguna Cháltel (Laguna Azul)	-50.0	-71.1	Lake sediment	Multiple	Mean shift	Dry		
Pleskot et al. (2020)	Literature search	Lake Spore	53.8	16.7	Lake sediment	Multiple	Excursion	Cold	4.25	4.00
Prasad and Enzel (2006)	Railsback et al. 2018	Nal Sarovar	23.0	72.0	Lake sediment	C/N	Indeterminant: single point in low-resolution record	Dry		
Psomiadis et al. (2017)	Railsback et al. 2018	Skala marion Cave	40.6	24.5	Speleothem	d18O	Excursion	Dry	4	3.4
Railsback et al. (2011)	Railsback et al. 2018	Cova da Arcoia	42.6	-7.1	Speleothem	Petrology	Hiatus	Wet		
Railsback et al. (2022)	Literature search	Dante Cave	-19.4	17.9	Speleothem	d18O & d13C	Excursion	Wet	4.15	3.93
Ran and Chen (2019)	Literature search	Multiple NH low-middle latitudes			Multiple	Multiple	Various	Various		
Regattieri et al. (2014)	Railsback et al. 2018	Corchia Cave	44.0	10.2	Speleothem	Moisture index	Excursion	Dry	4.4	4.0
Renssen (2022)	Literature search	Multiple global			Multiple	Multiple	Various	Various		
Robles et al. (2022)	Literature search	Lake Sevan	40.2	45.7	Lake sediment	Multiple	Excursion	Dry	4.2	3.7
Roland et al. (2014)	Literature search	Sluggan Moss; Fallahogy Bog	54.8	-6.4	Peat	Testate amoebae	No event	No event		
Roy et al. (2022)	Literature search	Bhojbasa kame terrace (KMT)	30.8	78.9	Terrestrial sediment	Pollen	Excursion	Dry	4.4	3.8
Saravanan et al. (2019)	Literature search	Core SK291/GC15	14.7	73.2	Marine sediment	Multiple	Mean shift	Dry		
Schirrmacher et al. (2019)	Literature search	GeoB5901-2	36.2	-4.3	Marine sediment	n-Alkane	Excursion	Dry	4.4	4.3
Schirrmacher et al. (2020)	Literature search	ODP-161-976A	36.2	-4.3	Marine sediment	Leafwax dD	Excursion	Moisture source	4.2	3.7
Scroxton et al. (2023)	Literature search	Anjohikely (AK1)	-15.6	46.9	Speleothem	d18O	Hiatus	Dry		
Scroxton et al. (2023)	Literature search	Multiple tropical Indian Ocean			Speleothem	Multiple	Various	Various		
Sharifi et al. (2015)	Railsback et al. 2018	Neor Lake	36.0	38.6	Lake sediment	Ti	Excursion	Dry	4.25	3.95
Shuchun et al. (2022)	Literature search	Yanling (Core YL)	26.4	114.1	Peat	Multiple	Hiatus	Wet & warm		
Singh et al. (2022)	Literature search	Lilaur lake	28.4	79.0	Lake sediment	Grain size	Excursion	Dry	4.25	4.05
Stanley et al. (2003)	Railsback et al. 2018	Nile Delta	31.1	32.5	Marine sediment	Sr	Excursion	Dry	4.2	4.0
Staubwasser (2003)	Search & Railsback et al. 2018	Indus delta (63KA)	24.6	66.0	Marine sediment	d18O	Mean shift	Dry		
Suric et al. (2021)	Literature search	Nova Grgosova	45.8	14.7	Speleothem	Multiple	Excursion	Dry	4.3	4.1
Tan et al. (2018)	Literature search	Xianglong Cve	33.0	106.3	Speleothem	d18O & d13C	Excursion	Wet	4.39	3.8

Table S1. Results of metanalysis, including reference to paper, site metadata, and interpreted timing, duration and climate interpretation of the 4.2 ka event.

Reference	Source	Site name	Lat (°)	Lon (°)	Archive	Proxy	Change type	Climate signal	Excursion start (ka)	Excursion end (ka)
Tan et al. (2020)	Literature search	Wuya Cave	33.8	105.4	Speleothem	d18O	No event	No event		
Thompson et al. (2002)	Railsback et al. 2018	Kilimanjaro	-3.1	37.4	Glacier ice	Dust	Excursion	Dry	3.95	4.05
Tian et al. (2020)	Literature search	Huangqihai Lake	40.8	113.3	Lake sediment	Pollen	Mean shift	Dry		
Ticha et al. (2023)	Literature search	Prášilské jezero	49.1	13.4	Lake sediment	Multiple	Mean shift	Wet		
Toth and Aronson (2019)	Literature search	Contadora Island	8.6	79.0	Coral	Sr/Ca & d18O	Hiatus	Cold		
Wang et al. (2022)	Literature search	Remi Cave	29.2	109.4	Speleothem	d13C & Sr/Ca	Inflection	Wet		
Wang et al. (2022)	Literature search	Yazihai Lake	38.9	112.2	Lake sediment	Pollen	Excursion	Dry	4.34	3.88
Xiao et al. (2019)	Literature search	Daihai Lake	40.6	112.7	Lake sediment	Multiple	Excursion	Dry	4.06	3.69
Yan et al. (2014)	Literature search	Hala Lake	38.5	97.5	Lake sediment	d18O	Excursion	Dry	4.5	4.1
Zanon et al. (2019)	Literature search	Bande di Cavriana	45.4	10.6	Terrestrial sediment	Multiple	Excursion	Dry & warm	4.6	4.3
Zerathe et al. (2014)	Literature search	Southwestern Alps	43.7	7.0	Terrestrial sediment	Landslides	Event stratigraphy	Wet		
Zhang et al. (2010)	Railsback et al. 2018	Yuchuicun	33.0	117.0	Terrestrial sediment	Multiple	Mean shift	Dry		
Zhang et al. (2018)	Literature search	Shennong Cave	28.7	117.3	Speleothem	d18O & d13C	Excursion	Wet	4.2	3.9
Zhang et al. (2020)	Literature search	Hulun Lake	49.0	117.3	Lake sediment	Pollen	Mean shift	Dry & cold		
Zhu et al. (2017)	Railsback et al. 2018	Tanjialing	30.9	113.1	Lake sediment	Phytolith & charcol	Excursion	Dry	4.2	4.0
Zielhofer et al. (2017)	Railsback et al. 2018	Lake Sidi Ali	33.1	-5.0	Lake sediment	Grain size & geochemistry	Excursion	Dry	4.2	4.1
Zolitschka et al. (2021)	Literature search	Lagoa Dourada	-25.2	-50.1	Lake sediment	Multiple	Excursion	Wet	4.4	3.8

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