Supporting material for:

Medieval Hydroclimate Revisited
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Submitted to PAGES, December 2010.

Each dot over land on the map in the main paper refers to a particular proxy reconstruction of precipitation or moisture conditions that shows a clear Medieval anomaly relative to the subsequent Little Ice Age and modern period. Brown marks a dry anomaly and green a wet anomaly. The Medieval megadroughts over North America are shown by brown shading. Over ocean blue dots indicate cold conditions as indicated by the proxy reconstruction at that point and red dots warm conditions. The table below lists the references for the reconstructions, location, archive type and resolution. This table and the map have been extended over the prior version published by Burgman et al. (2010, Geophysical Research Letters). The expanded reference list follows.

Table 1. Reference, location, archive type and dating of climate proxy reconstructions in Fig 1a.

No. References	Location	Archive type	Sample resolution, dating uncertainty, dating method
1 Cobb et al., (2003)	Palmyra	Coral d18O	Monthly ± U/Th
2 Kennett and Kennett (2000)	Santa Barbara Basin	Marine d18O	25 years, ±60-90 years, 14C
3 Rein et al., (2005)	Off coastal Peru	Marine core lithics	2 ± 100, 14C and isotope profiling
4 Stott et al., (2004)	Western tropical Pacific	Mg/Ca and d18O of G. Ruber	15-30 years, unknown, 14C
5 Keigwin (1996)	Bermuda rise	Marine d18O	Centennial, ±40 years, 14C
6 Keigwin and Pickart (1999)	Laurentian Fan	Marine core N. pachyderma	Multidecadal ± 25-55 years
7 Haug et al., (2001)	Cariaco basin	Ti content in marine core	4-5 years, ±30-90 years, 14C
8 Peterson and Haug (2006)	Quelccaya	Ice core	Annual, ±2 years, stratigraphy
9 Hodell et al., (2005a)	Yucatan	Lake sediments	Multiyear, ±30-90 years, 14C
10 Hodell et al., (2005b)	Yucatan	Lake sediments	Multiyear, ±30-90 years, 14C
11 Lachniet et al., (2004)	Panama	Speleothem	2 ± 100, U/Th
12 Moy et al., (2002)	Ecuador	Clastic influx into lake	Multiyear, ±60 years, 14C
13 Stine (1994)	California and Patagonia	Relic tree stumps	±30-100 years, 14C
14 Villalba (1994	Central Chile	Tree rings	Annual, precise
15 Jenny et al., (2002)	Central Chile	Lake sediments, multiproxy	Decadal, ±40-165 years, 14C

16 Cioccale (1999), Carignano (1997, 1999), Iriondo (1999),	Central Argentina	Geomorphological	Centennial, ±60-145 years archaeological and 14C
17 Quinn (1993)	Ethiopia	Nile floods	Annual
18 Holmes et al., (1999) Nicholson (2000)	Nigeria Sahel	Lake sediments Historical	Unknown, ±45 years, 14C and isotope profiling
19 Verschuren et al., (2000) Russell and Johnson (2005)	East Africa	Lake levels	Decadal, ±50 years, 210Pb and 14C 20 years, ±100-400 years, 14C
20 Holmgren et al., (1999)	South Africa	Speleothem	Annual
21 Gupta et al., (2003)	Oman	Margin Marine core d18O foram abundance	Centennial, ±100 years, 14C
22 Sinha et al., (2007)	India	Speleothem	Multiyear, ±300 years, Th
23 Wang et al., (2001)	China	Speleothem	Multiyear, ±50 years, Th
24 Lamb (1965)	Europe	Historical accounts	
25 Proctor et al., (2002)	Scotland	Speleothem	Annual bands
26 Tol and Langen (2000)	Holland	River flood records	
27 Benito et al., (2003)	Spain	River flood records	
28 Dragoni (1998)	Italy	Historical lake level records	
29 Bar-Mathews et al., (1998)	Israel	Speleothem	Unknown, ±1500 years, U/Th
30 Esper et al., (2007)	Morocco	Tree Rings	Annual
31 Shanahan et al. (2009)	Ghana	Lake sediments	Annual
32 Fleitmann et al. (2003)	Oman	Speleothem	Interannual, U/Th
33 von Rad et al. (1999); Agnihotri et al. (2002); Agnihotri and Dutta (2003)	Pakistan	Marine sediment	Annual, ±25 years, 14C
34 Thompson et al. (1995), Yang et al. (2009); Wang et al. (2007)	China	Ice Core	Annual, ±1 years, stratigraphy
35 Zhang et al. (2008);	China	Speleothem	2.5 years, ±15 years, U/Th
36 Zheng et al. (2006), Tan et al. (2008)	China	Historical records	

Table References

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