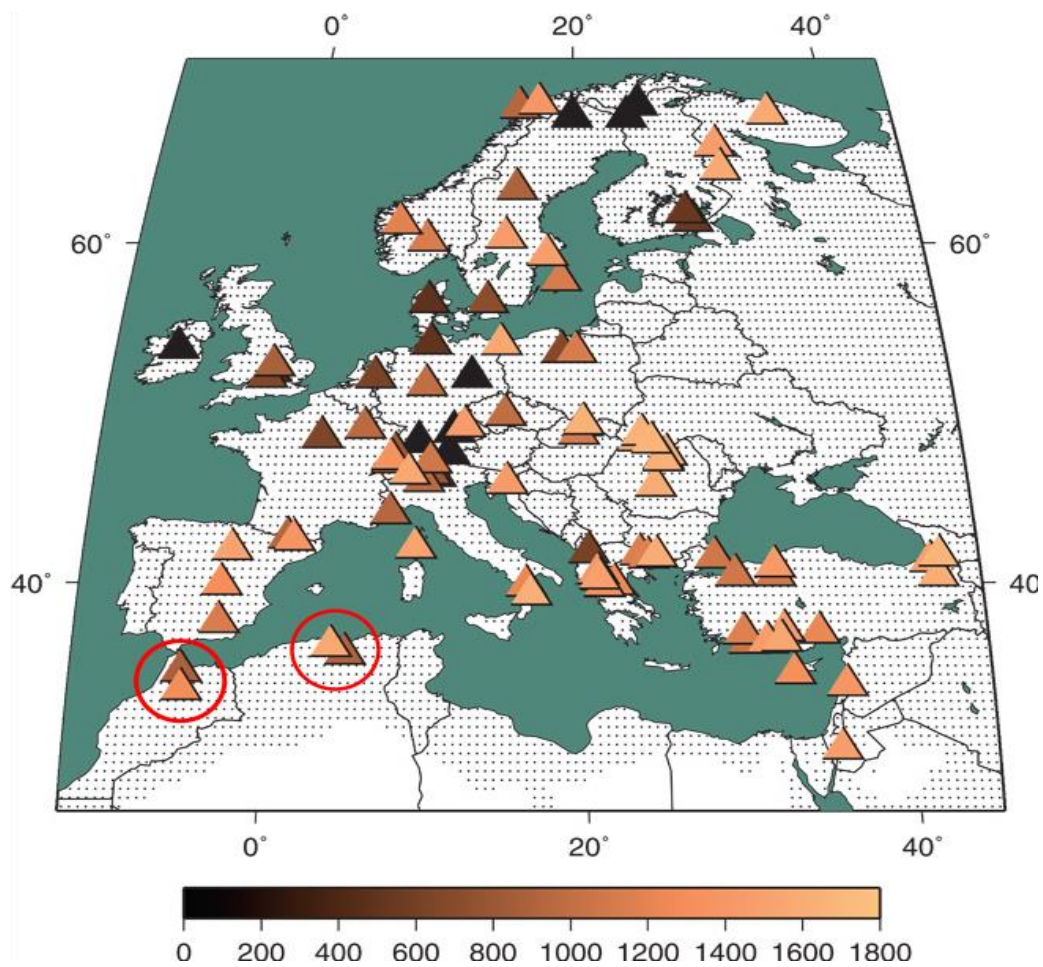


## Supplementary Materials:



**Figure S1.** Locations of tree ring chronologies in the North African region of Old World Drought Atlas (OWDA). Colors and triangles indicate approximate start dates of various chronologies. Dark brown triangles circled in red represent two grid points (Algeria and Morocco), corresponding to sites where reconstructions of the OWDA are available in the region (map source: [34]).

**Table S1.** Correlation coefficients between calculated PDSI from Coupled Model Intercomparison Project (CMIP5) models and reconstructed from OWDA (none are significant).

Correlation test	CCSM4		MPI-ESM-P		CESM1 (mean)		Reconstructed PDSI	
	Algeria	Morocco	Algeria	Morocco	Algeria	Morocco	Algeria	Morocco
<b>CCSM4</b>	1	1	0.04	0.03	0.08	0.13	0.05	0.07
<b>MPI-ESM-P</b>			1	1	0.16	0.11	-0.005	0.03
<b>CESM1 (mean)</b>					1	1	0.04	0.06
<b>Reconstructed PDSI</b>							1	1

**Table S2.** Correlations between North Atlantic Oscillation (NAO) index and winter (DJFMA) precipitation for observations, reanalysis, and CMIP5 models over the three periods (1979–2005, 1850–1950, 850–1850). (Red indicates significance, with a p-value <0.05).

NAO	WEST		CENTER		EST		
	DATA	COR	P value	COR	P value	COR	P value
Recent Period	Dalware	$-5.17 \times 10^{-01}$	$1.47 \times 10^{-03}$	$-4.54 \times 10^{-01}$	$6.22 \times 10^{-03}$	$1.23 \times 10^{-01}$	$4.83 \times 10^{-01}$
	GPCC	$-5.13 \times 10^{-01}$	$1.64 \times 10^{-03}$	$-4.62 \times 10^{-01}$	$5.24 \times 10^{-03}$	$2.06 \times 10^{-01}$	$2.34 \times 10^{-01}$
	20c RE	$-7.13 \times 10^{-01}$	$1.54 \times 10^{-06}$	$-6.43 \times 10^{-01}$	$3.05 \times 10^{-05}$	$-3.87 \times 10^{-01}$	$2.17 \times 10^{-02}$
	CCSM4	$-5.27 \times 10^{-01}$	$2.31 \times 10^{-03}$	$-9.92 \times 10^{-02}$	$5.96 \times 10^{-01}$	$2.72 \times 10^{-01}$	$1.39 \times 10^{-01}$
	MPI ESM	$-2.92 \times 10^{-01}$	$1.10 \times 10^{-01}$	$2.01 \times 10^{-01}$	$2.79 \times 10^{-01}$	$2.68 \times 10^{-01}$	$1.45 \times 10^{-01}$
	IPSL LR	$-3.74 \times 10^{-01}$	$3.85 \times 10^{-02}$	$-1.32 \times 10^{-02}$	$9.44 \times 10^{-01}$	$3.10 \times 10^{-01}$	$9.01 \times 10^{-02}$
	GISS	$3.05 \times 10^{-02}$	$8.71 \times 10^{-01}$	$1.73 \times 10^{-01}$	$3.53 \times 10^{-01}$	$2.18 \times 10^{-01}$	$2.38 \times 10^{-01}$
	BCC	$-4.49 \times 10^{-01}$	$2.13 \times 10^{-02}$	$-3.67 \times 10^{-01}$	$6.49 \times 10^{-01}$	$-2.61 \times 10^{-01}$	$1.98 \times 10^{-01}$
	CESM1	$2.57 \times 10^{-02}$	$8.91 \times 10^{-01}$	$2.50 \times 10^{-02}$	$8.94 \times 10^{-01}$	$-1.45 \times 10^{-01}$	$4.35 \times 10^{-01}$
	Past century	Dalware	$-4.55 \times 10^{-01}$	$1.94 \times 10^{-06}$	$-1.29 \times 10^{-01}$	$2.02 \times 10^{-01}$	$2.99 \times 10^{-01}$
GPCC		$-4.43 \times 10^{-01}$	$4.02 \times 10^{-06}$	$-1.29 \times 10^{-01}$	$2.01 \times 10^{-01}$	$3.38 \times 10^{-01}$	$5.91 \times 10^{-04}$
20c RE		$-6.65 \times 10^{-01}$	$4.63 \times 10^{-14}$	$-4.66 \times 10^{-01}$	$1.02 \times 10^{-06}$	$-2.77 \times 10^{-01}$	$5.28 \times 10^{-03}$
CCSM4		$-2.16 \times 10^{-01}$	$2.97 \times 10^{-02}$	$1.00 \times 10^{-01}$	$3.19 \times 10^{-01}$	$3.38 \times 10^{-01}$	$5.55 \times 10^{-04}$
MPI ESM		$-4.96 \times 10^{-01}$	$1.32 \times 10^{-07}$	$-1.71 \times 10^{-01}$	$8.72 \times 10^{-02}$	$1.72 \times 10^{-01}$	$8.51 \times 10^{-02}$
IPSL LR		$-1.60 \times 10^{-01}$	$1.10 \times 10^{-01}$	$1.65 \times 10^{-01}$	$9.85 \times 10^{-02}$	$3.68 \times 10^{-01}$	$1.51 \times 10^{-04}$
GISS		$-1.77 \times 10^{-01}$	$7.71 \times 10^{-02}$	$8.73 \times 10^{-02}$	$3.85 \times 10^{-01}$	$3.08 \times 10^{-01}$	$1.75 \times 10^{-03}$
BCC		$7.89 \times 10^{-02}$	$4.33 \times 10^{-01}$	$8.48 \times 10^{-02}$	$3.99 \times 10^{-01}$	$1.20 \times 10^{-01}$	$2.31 \times 10^{-01}$
CESM1		$-1.23 \times 10^{-01}$	$2.22 \times 10^{-01}$	$9.09 \times 10^{-04}$	$9.93 \times 10^{-01}$	$3.36 \times 10^{-02}$	$7.40 \times 10^{-01}$
Past millennia		CCSM4	$-2.60 \times 10^{-01}$	$5.92 \times 10^{-01}$	$-1.84 \times 10^{-01}$	$5.60 \times 10^{-01}$	$1.66 \times 10^{-01}$

		$10^{-07}$	$10^{-02}$	$10^{-01}$	$10^{-01}$	$10^{-07}$
MPI ESM	$-4.64 \times 10^{-01}$	$1.40 \times 10^{-54}$	$-1.06 \times 10^{-01}$	$8.09 \times 10^{-04}$	$7.18 \times 10^{-03}$	$2.32 \times 10^{-02}$
IPSL LR	$-3.30 \times 10^{-01}$	$8.74 \times 10^{-27}$	$2.86 \times 10^{-02}$	$3.67 \times 10^{-01}$	$3.12 \times 10^{-01}$	$3.67 \times 10^{-02}$
GISS	$-1.10 \times 10^{-01}$	$5.12 \times 10^{-04}$	$1.38 \times 10^{-01}$	$1.16 \times 10^{-05}$	$1.38 \times 10^{-01}$	$1.16 \times 10^{-05}$
BCC	$-1.99 \times 10^{-01}$	$2.30 \times 10^{-01}$	$3.35 \times 10^{-02}$	$2.89 \times 10^{-01}$	$3.35 \times 10^{-02}$	$2.89 \times 10^{-01}$
CESM1	$-3.95 \times 10^{-02}$	$2.13 \times 10^{-01}$	$1.60 \times 10^{-02}$	$6.14 \times 10^{-01}$	$-2.48 \times 10^{-014}$	$9.94 \times 10^{-01}$

**Table S3.** Correlations between West Mediterranean Oscillation (WeMO) index and winter (DJFMA) precipitation for observations, reanalysis, and CMIP5 models over the three periods (1979–2005, 1850–1950, 850–1850). (Red indicates significance, with a p-value <0.05).

WeMOI	MODEL	WEST		CENTER		EST	
		COR	P value	COR	P value	COR	P value
Recent period	Dalware	-3.34 ×	4.98 ×	-1.22 ×	9.45 ×	-1.37 ×	4.33 ×
		10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>
	GPCC	-3.19 ×	6.21 ×	-1.00 ×	5.66 ×	-1.45 ×	4.06 ×
		10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>
	20c RE	-6.51 ×	2.30 ×	-5.16 ×	1.50 ×	-3.85 ×	2.22 ×
		10 <sup>-01</sup>	10 <sup>-05</sup>	10 <sup>-01</sup>	10 <sup>-03</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>
	CCSM4	-4.41 ×	1.29 ×	-1.96 ×	2.91 ×	5.71 ×	9.76 ×
		10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-03</sup>	10 <sup>-01</sup>
	MPI ESM	-5.30 ×	2.19 ×	-2.66 ×	1.48 ×	-2.60 ×	1.58 ×
		10 <sup>-01</sup>	10 <sup>-03</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>
IPSL LR	-4.71 ×	7.45 ×	-2.39 ×	1.95 ×	-7.73 ×	6.79 ×	
	10 <sup>-01</sup>	10 <sup>-03</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	
GISS	1.77 ×	9.25 ×	-2.11 ×	2.53 ×	-5.32 ×	7.76 ×	
	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	
BCC	-6.83 ×	7.40 ×	8.74 ×	6.71 ×	3.18 ×	1.14 ×	
	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	
CESM1	-1.34 ×	4.71 ×	-2.49 ×	1.77 ×	-2.45 ×	1.85 ×	
	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	
Past century	Dalware	-4.88 ×	2.60 ×	-4.48 ×	6.58 ×	1.28 ×	2.06 ×
		10 <sup>-01</sup>	10 <sup>-07</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>
	GPCC	-5.04 ×	9.09 ×	-6.20 ×	5.40 ×	1.11 ×	2.70 ×
		10 <sup>-01</sup>	10 <sup>-08</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>
	20c RE	-4.41 ×	4.42 ×	-4.19 ×	1.40 ×	-2.36 ×	1.80 ×
		10 <sup>-01</sup>	10 <sup>-06</sup>	10 <sup>-01</sup>	10 <sup>-05</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>
	CCSM4	3.70 ×	1.42 ×	1.81 ×	7.00 ×	6.84 ×	4.97 ×
		10 <sup>-01</sup>	10 <sup>-04</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>
	MPI ESM	-5.46 ×	3.63 ×	-4.72 ×	6.10 ×	-2.72 ×	5.87 ×
		10 <sup>-01</sup>	10 <sup>-09</sup>	10 <sup>-01</sup>	10 <sup>-06</sup>	10 <sup>-01</sup>	10 <sup>-03</sup>
IPSL LR	-2.21 ×	2.65 ×	1.53 ×	8.79 ×	-8.65 ×	3.90 ×	
	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	
GISS	3.91 ×	5.30 ×	2.36 ×	1.76 ×	1.39 ×	1.67 ×	
	10 <sup>-01</sup>	10 <sup>-05</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	
BCC	-8.11 ×	4.20 ×	-1.30 ×	1.95 ×	-1.15 ×	2.54 ×	
	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	
CESM1	7.61 ×	4.52 ×	-3.72 ×	9.97 ×	1.45 ×	1.51 ×	
	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-04</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	10 <sup>-01</sup>	
Past millennium	CCSM4	-2.88 ×	1.31 ×	-1.23 ×	9.10 ×	-7.76 ×	1.41 ×
		10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-05</sup>	10 <sup>-02</sup>	10 <sup>-02</sup>
	MPI ESM	-5.47 ×	5.89 ×	-4.08 ×	2.33 ×	-2.20 ×	1.79 ×
		10 <sup>-01</sup>	10 <sup>-79</sup>	10 <sup>-01</sup>	10 <sup>-41</sup>	10 <sup>-01</sup>	10 <sup>-12</sup>
	IPSL LR	-3.39 ×	2.88 ×	-1.77 ×	1.67 ×	-1.55 ×	7.93 ×
		10 <sup>-01</sup>	10 <sup>-28</sup>	10 <sup>-01</sup>	10 <sup>-08</sup>	10 <sup>-01</sup>	10 <sup>-07</sup>
	GISS	3.44 ×	3.03 ×	2.45 ×	3.39 ×	2.45 ×	3.39 ×
		10 <sup>-01</sup>	10 <sup>-29</sup>	10 <sup>-01</sup>	10 <sup>-15</sup>	10 <sup>-01</sup>	10 <sup>-15</sup>
BCC	5.23 ×	2.23 ×	4.31 ×	1.24 ×	4.31 ×	1.24 ×	
	10 <sup>-01</sup>	10 <sup>-71</sup>	10 <sup>-01</sup>	10 <sup>-46</sup>	10 <sup>-01</sup>	10 <sup>-46</sup>	
CESM1	4.96 ×	1.17 ×	3.33 ×	2.93 ×	5.56 ×	7.92 ×	
	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-01</sup>	10 <sup>-02</sup>	10 <sup>-02</sup>	

**Table S4.** Correlations between Mediterranean Oscillation (MO) index and winter (DJFMA) precipitation for observations, reanalysis, and CMIP5 models over the three periods (1979–2005, 1850–1950, 850–1850). (Red indicates significance, with a p-value <0.05).

MOI	WEST		CENTER		EST		
	DATA	COR	P value	COR	P value	COR	P value
Recent period	Dalware	-3.11 × 10 <sup>-01</sup>	6.91 × 10 <sup>-02</sup>	-1.49 × 10 <sup>-02</sup>	9.32 × 10 <sup>-01</sup>	1.89 × 10 <sup>-01</sup>	2.77 × 10 <sup>-01</sup>
	GPCC	-3.33 × 10 <sup>-01</sup>	5.08 × 10 <sup>-02</sup>	-3.34 × 10 <sup>-02</sup>	8.49 × 10 <sup>-01</sup>	2.01 × 10 <sup>-01</sup>	2.46 × 10 <sup>-01</sup>
	20c RE	-6.34 × 10 <sup>-01</sup>	4.40 × 10 <sup>-05</sup>	-5.85 × 10 <sup>-01</sup>	2.27 × 10 <sup>-04</sup>	-2.51 × 10 <sup>-01</sup>	1.45 × 10 <sup>-01</sup>
	CCSM4	-6.42 × 10 <sup>-01</sup>	9.84 × 10 <sup>-05</sup>	-1.38 × 10 <sup>-01</sup>	4.61 × 10 <sup>-01</sup>	3.85 × 10 <sup>-01</sup>	1.69 × 10 <sup>-02</sup>
	MPI ESM	-6.38 × 10 <sup>-01</sup>	1.14 × 10 <sup>-04</sup>	-4.20 × 10 <sup>-01</sup>	1.86 × 10 <sup>-02</sup>	-5.93 × 10 <sup>-02</sup>	7.51 × 10 <sup>-01</sup>
	IPSL LR	-5.26 × 10 <sup>-01</sup>	2.35 × 10 <sup>-03</sup>	-1.62 × 10 <sup>-01</sup>	3.85 × 10 <sup>-01</sup>	3.38 × 10 <sup>-01</sup>	6.25 × 10 <sup>-02</sup>
	GISS	-2.42 × 10 <sup>-01</sup>	1.90 × 10 <sup>-01</sup>	-1.38 × 10 <sup>-01</sup>	1.90 × 10 <sup>-01</sup>	3.72 × 10 <sup>-01</sup>	4.60 × 10 <sup>-01</sup>
	BCC	2.84 × 10 <sup>-01</sup>	1.60 × 10 <sup>-01</sup>	1.48 × 10 <sup>-01</sup>	4.71 × 10 <sup>-01</sup>	-1.48 × 10 <sup>-02</sup>	9.43 × 10 <sup>-01</sup>
	CESM1	-2.17 × 10 <sup>-01</sup>	2.41 × 10 <sup>-01</sup>	-2.72 × 10 <sup>-01</sup>	1.39 × 10 <sup>-01</sup>	-1.67 × 10 <sup>-02</sup>	9.29 × 10 <sup>-01</sup>
	Past century	Dalware	-5.01 × 10 <sup>-01</sup>	1.12 × 10 <sup>-07</sup>	-1.59 × 10 <sup>-01</sup>	1.13 × 10 <sup>-01</sup>	2.83 × 10 <sup>-01</sup>
GPCC		-5.01 × 10 <sup>-01</sup>	1.08 × 10 <sup>-07</sup>	-1.63 × 10 <sup>-01</sup>	1.04 × 10 <sup>-01</sup>	2.84 × 10 <sup>-01</sup>	4.14 × 10 <sup>-03</sup>
20c RE		-5.07 × 10 <sup>-01</sup>	7.14 × 10 <sup>-08</sup>	-3.92 × 10 <sup>-01</sup>	5.43 × 10 <sup>-05</sup>	-1.45 × 10 <sup>-01</sup>	1.50 × 10 <sup>-01</sup>
CCSM4		-5.63 × 10 <sup>-01</sup>	8.62 × 10 <sup>-10</sup>	-9.10 × 10 <sup>-02</sup>	3.65 × 10 <sup>-01</sup>	4.88 × 10 <sup>-01</sup>	2.27 × 10 <sup>-07</sup>
MPI ESM		-5.90 × 10 <sup>-01</sup>	8.59 × 10 <sup>-11</sup>	-5.44 × 10 <sup>-01</sup>	4.23 × 10 <sup>-09</sup>	-3.63 × 10 <sup>-02</sup>	7.18 × 10 <sup>-01</sup>
IPSL LR		-5.00 × 10 <sup>-01</sup>	1.02 × 10 <sup>-07</sup>	-2.47 × 10 <sup>-01</sup>	1.26 × 10 <sup>-02</sup>	2.67 × 10 <sup>-01</sup>	7.02 × 10 <sup>-03</sup>
GISS		-3.54 × 10 <sup>-01</sup>	2.76 × 10 <sup>-04</sup>	-1.01 × 10 <sup>-01</sup>	3.13 × 10 <sup>-01</sup>	2.71 × 10 <sup>-01</sup>	6.18 × 10 <sup>-03</sup>
BCC		3.97 × 10 <sup>-02</sup>	6.93 × 10 <sup>-01</sup>	-4.04 × 10 <sup>-02</sup>	6.88 × 10 <sup>-01</sup>	-6.57 × 10 <sup>-02</sup>	5.14 × 10 <sup>-01</sup>
CESM1		2.32 × 10 <sup>-02</sup>	8.19 × 10 <sup>-01</sup>	4.73 × 10 <sup>-02</sup>	6.40 × 10 <sup>-01</sup>	1.07 × 10 <sup>-01</sup>	2.88 × 10 <sup>-01</sup>
CCSM4		-4.00 × 10 <sup>-01</sup>	8.37 × 10 <sup>-40</sup>	-1.29 × 10 <sup>-01</sup>	4.26 × 10 <sup>-05</sup>	3.13 × 10 <sup>-01</sup>	3.43 × 10 <sup>-24</sup>
Past millennium	MPI ESM p	-5.82 × 10 <sup>-01</sup>	1.21 × 10 <sup>-91</sup>	-4.87 × 10 <sup>-01</sup>	8.65 × 10 <sup>-61</sup>	1.36 × 10 <sup>-01</sup>	1.57 × 10 <sup>-05</sup>
	IPSL LR	-4.83 × 10 <sup>-01</sup>	1.50 × 10 <sup>-59</sup>	-1.88 × 10 <sup>-01</sup>	2.08 × 10 <sup>-09</sup>	3.65 × 10 <sup>-01</sup>	6.33 × 10 <sup>-33</sup>
	GISS	-4.86 × 10 <sup>-01</sup>	1.59 × 10 <sup>-60</sup>	-2.75 × 10 <sup>-01</sup>	9.19 × 10 <sup>-19</sup>	-2.75 × 10 <sup>-01</sup>	9.19 × 10 <sup>-19</sup>
	BCC	-4.85 × 10 <sup>-01</sup>	4.38 × 10 <sup>-60</sup>	-2.42 × 10 <sup>-01</sup>	9.04 × 10 <sup>-15</sup>	-2.42 × 10 <sup>-01</sup>	9.04 × 10 <sup>-15</sup>
	CESM1	-1.36 × 10 <sup>-02</sup>	6.68 × 10 <sup>-01</sup>	-2.64 × 10 <sup>-02</sup>	4.04 × 10 <sup>-01</sup>	-5.70 × 10 <sup>-02</sup>	7.19 × 10 <sup>-02</sup>

**Table S5.** Correlations between U850 index and winter (DJFMA) precipitation for observations, reanalysis, and CMIP5 models over the three periods (1979–2005, 1850–1950, 850–1850). (Red indicates significance, with a p-value <0.05).

U850	DATA	WEST		CENTER		EST	
		COR	P value	COR	P value	COR	P value
<b>Present period</b>	20c RE	3.84 × 10 <sup>-01</sup>	2.50 × 10 <sup>-02</sup>	1.82 × 10 <sup>-01</sup>	3.02 × 10 <sup>-01</sup>	7.53 × 10 <sup>-02</sup>	6.72 × 10 <sup>-01</sup>
	CCSM4	7.04 × 10 <sup>-01</sup>	9.91 × 10 <sup>-06</sup>	6.59 × 10 <sup>-01</sup>	5.63 × 10 <sup>-05</sup>	2.10 × 10 <sup>-01</sup>	2.56 × 10 <sup>-02</sup>
	MPI_ESM	7.25 × 10 <sup>-01</sup>	3.89 × 10 <sup>-06</sup>	5.95 × 10 <sup>-01</sup>	4.17 × 10 <sup>-04</sup>	1.84 × 10 <sup>-01</sup>	3.22 × 10 <sup>-02</sup>
	IPSL_LR	4.08 × 10 <sup>-01</sup>	2.26 × 10 <sup>-02</sup>	5.00 × 10 <sup>-01</sup>	4.20 × 10 <sup>-03</sup>	9.48 × 10 <sup>-02</sup>	6.12 × 10 <sup>-01</sup>
	GISS	5.56 × 10 <sup>-01</sup>	1.15 × 10 <sup>-03</sup>	5.56 × 10 <sup>-01</sup>	5.41 × 10 <sup>-02</sup>	8.91 × 10 <sup>-02</sup>	6.34 × 10 <sup>-01</sup>
	BCC	1.26 × 10 <sup>-01</sup>	5.41 × 10 <sup>-01</sup>	1.26 × 10 <sup>-01</sup>	7.53 × 10 <sup>-01</sup>	-9.17 × 10 <sup>-03</sup>	9.65 × 10 <sup>-01</sup>
	CESM	6.50 × 10 <sup>-01</sup>	7.56 × 10 <sup>-05</sup>	5.21 × 10 <sup>-01</sup>	2.66 × 10 <sup>-03</sup>	3.09 × 10 <sup>-01</sup>	4.04 × 10 <sup>-02</sup>
	20c RE	1.81 × 10 <sup>-01</sup>	7.10 × 10 <sup>-02</sup>	7.98 × 10 <sup>-02</sup>	4.30 × 10 <sup>-01</sup>	7.47 × 10 <sup>-02</sup>	4.60 × 10 <sup>-01</sup>
<b>Past century</b>	CCSM4	6.80 × 10 <sup>-01</sup>	5.55 × 10 <sup>-15</sup>	5.53 × 10 <sup>-01</sup>	2.02 × 10 <sup>-09</sup>	1.12 × 10 <sup>-01</sup>	2.64 × 10 <sup>-01</sup>
	MPI_ESM	7.16 × 10 <sup>-01</sup>	4.16 × 10 <sup>-17</sup>	6.82 × 10 <sup>-01</sup>	4.05 × 10 <sup>-15</sup>	2.67 × 10 <sup>-01</sup>	6.87 × 10 <sup>-03</sup>
	IPSL_LR	1.45 × 10 <sup>-01</sup>	1.47 × 10 <sup>-01</sup>	1.79 × 10 <sup>-01</sup>	5.27 × 10 <sup>-02</sup>	1.04 × 10 <sup>-02</sup>	9.17 × 10 <sup>-01</sup>
	GISS	5.42 × 10 <sup>-01</sup>	4.94 × 10 <sup>-09</sup>	3.45 × 10 <sup>-01</sup>	4.14 × 10 <sup>-04</sup>	2.11 × 10 <sup>-01</sup>	3.39 × 10 <sup>-02</sup>
	BCC	-1.98 × 10 <sup>-02</sup>	8.44 × 10 <sup>-01</sup>	-6.07 × 10 <sup>-02</sup>	5.46 × 10 <sup>-01</sup>	-7.17 × 10 <sup>-02</sup>	4.76 × 10 <sup>-01</sup>
	CESM	7.07 × 10 <sup>-01</sup>	1.48 × 10 <sup>-16</sup>	6.11 × 10 <sup>-01</sup>	1.11 × 10 <sup>-11</sup>	2.78 × 10 <sup>-01</sup>	4.80 × 10 <sup>-03</sup>
	CCSM4	6.54 × 10 <sup>-01</sup>	2.21 × 10 <sup>-12</sup>	5.97 × 10 <sup>-01</sup>	9.70 × 10 <sup>-98</sup>	1.41 × 10 <sup>-01</sup>	8.01 × 10 <sup>-06</sup>
<b>Past millennium</b>	MPI_ESM	2.63 × 10 <sup>-01</sup>	2.48 × 10 <sup>-13</sup>	2.45 × 10 <sup>-01</sup>	1.06 × 10 <sup>-11</sup>	6.75 × 10 <sup>-02</sup>	6.72 × 10 <sup>-01</sup>
	IPSL_LR	7.31 × 10 <sup>-01</sup>	2.53 × 10 <sup>-15</sup>	7.31 × 10 <sup>-01</sup>	2.49 × 10 <sup>-69</sup>	1.31 × 10 <sup>-01</sup>	7.66 × 10 <sup>-05</sup>
	GISS_	6.27 × 10 <sup>-01</sup>	3.00 × 10 <sup>-11</sup>	6.27 × 10 <sup>-01</sup>	9.87 × 10 <sup>-21</sup>	1.92 × 10 <sup>-01</sup>	9.17 × 10 <sup>-10</sup>
	BCC	6.70 × 10 <sup>-01</sup>	3.29 × 10 <sup>-13</sup>	5.04 × 10 <sup>-01</sup>	1.09 × 10 <sup>-65</sup>	1.51 × 10 <sup>-01</sup>	2.27 × 10 <sup>-30</sup>
	CESM1	2.53 × 10 <sup>-02</sup>	1.47 × 10 <sup>-16</sup>	2.71 × 10 <sup>-03</sup>	9.32 × 10 <sup>-01</sup>	4.82 × 10 <sup>-02</sup>	1.28 × 10 <sup>-01</sup>