Addressing on abrupt global warming, warming trend slowdown and related features in recent decades

Indrani Roy College of Engineering, Mathematics and Physical Sciences
University of Exeter (i.roy@exeter.ac.uk, Indrani_r@hotmail.com)

Laver Building, Streatham Campus, North Park Road
Exeter, UK, EX4 4QE

Supplementary Section:

Fig.S1. Same as Fig. 2A, but for 1976-1998 (adding two extra years) instead of 1976-1996.

Fig.S2. Mean air temperature anomaly (1976-1996 minus 1999-2017) for Dec-Feb from A) HadCRUT4.2; B) ERA-interim. For ERA-interim it started from 1979 instead of 1976. Plots generated using the IPCC's Climate Change Atlas; climexp.knmi.nl/plot _atlas_form.py. Signal smaller than one standard deviation of natural variability is shown by hatching.

Fig. S3. Same as Fig. 4B, but using anomaly period 1936-1955.

Fig. S4. Same as Fig. 6A, but using anomaly period 1956-1975.

Fig. S5 Mean Near-Surface Specific Humidity (DJF): 1976-1996 minus 1956-1975 for two arbitrarily chosen CMIP5 models, IPSL-CM5A-LR (A) and NorESM1-M (B).

Fig. S6: Niño 3.4 temperature anomaly in Dec-Feb. The first plot is from Observed data of HadISST and the rest 31 plots for various CMIP5 models. The period 1976-1996 is marked by coloured dotted lines and the period exceeding red dotted lines represent recent warming slowdown or hiatus period.

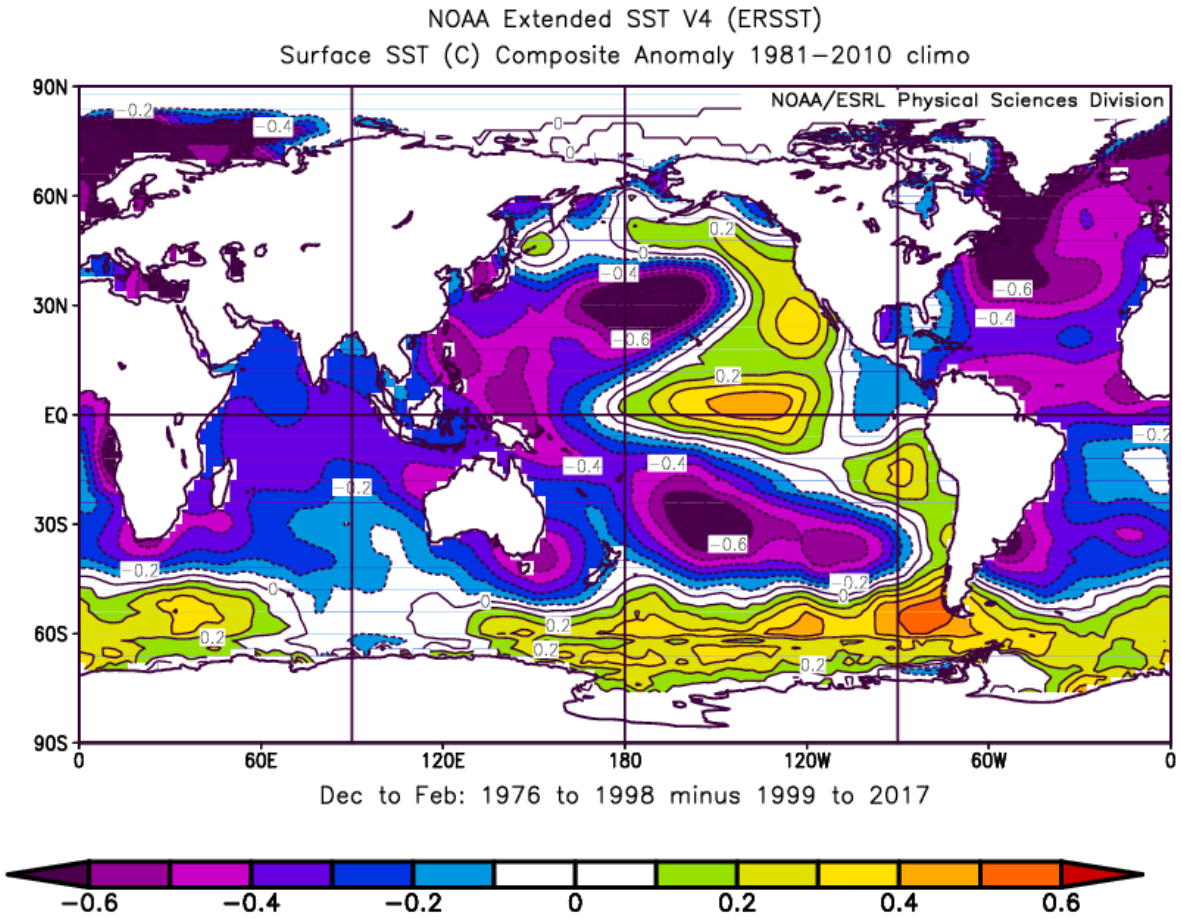
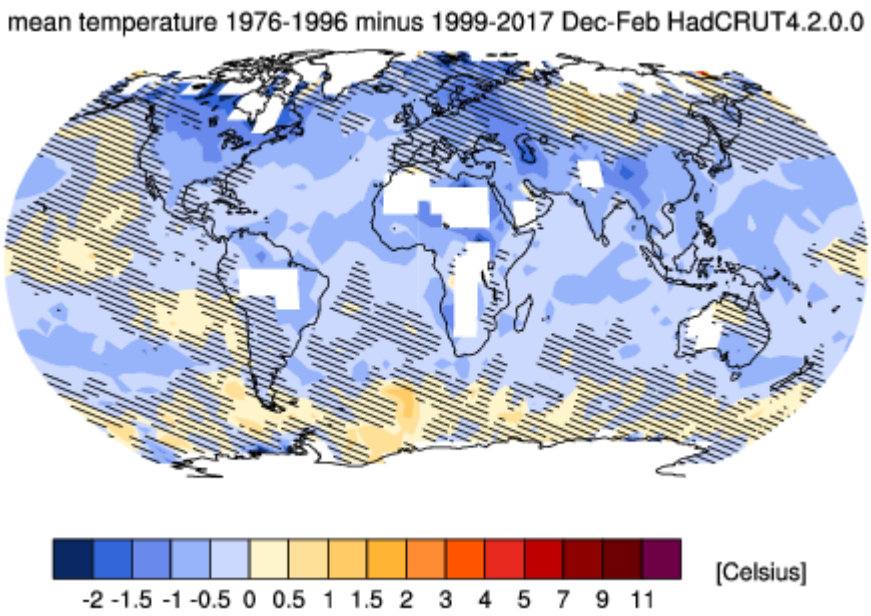
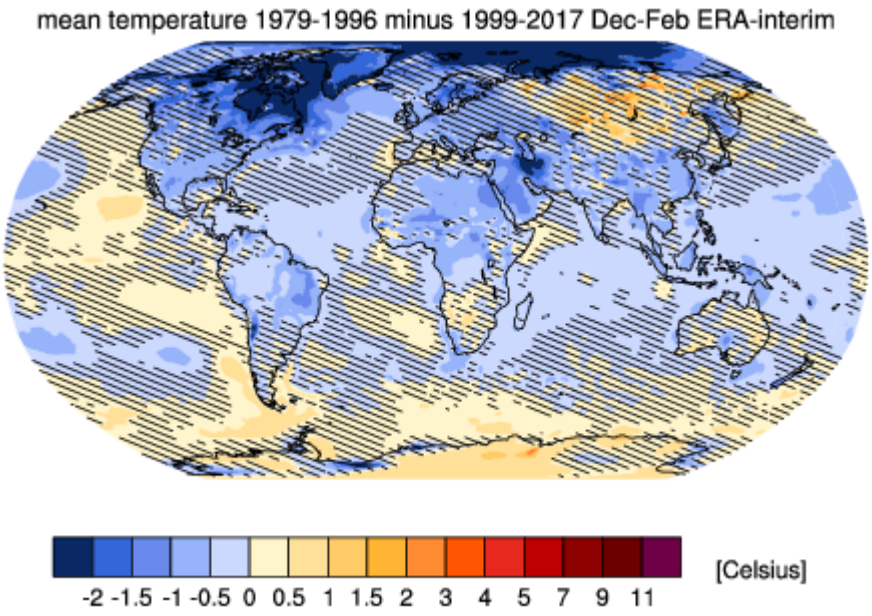


Fig.S1. Same as Fig. 2A, but for 1976-1998 (adding two extra years) instead of 1976-1996.

A)



B)



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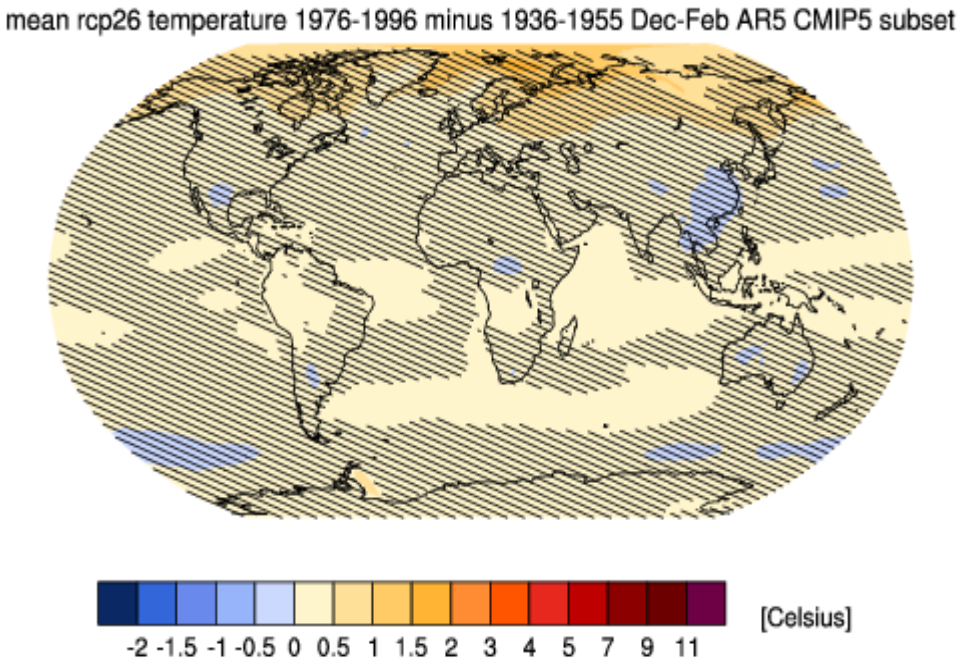

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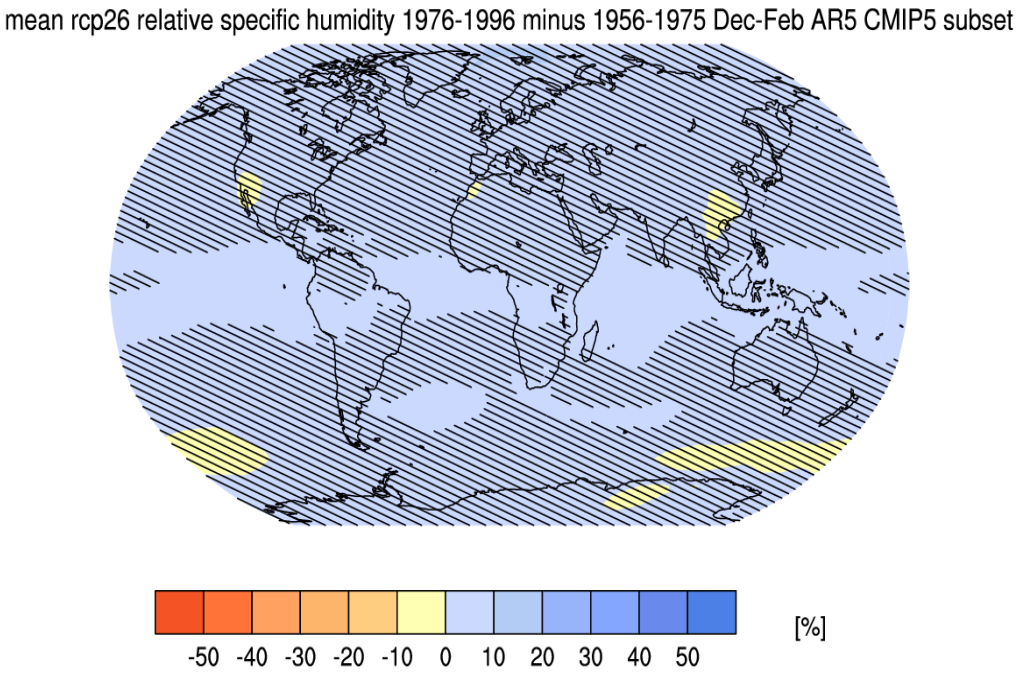
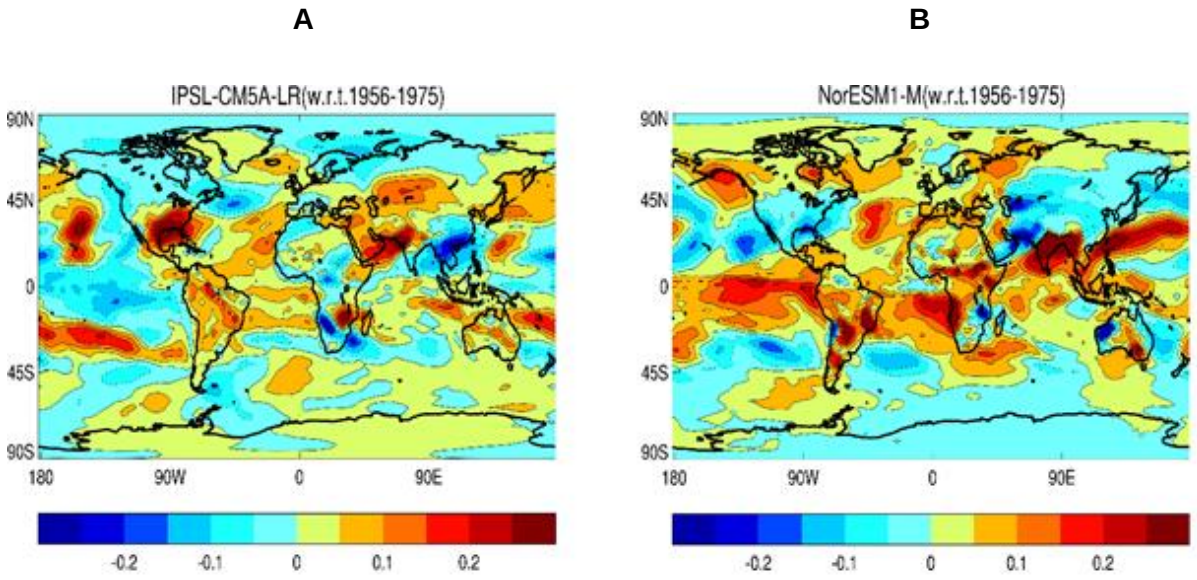


Fig. S4. Same as Fig. 6A, but using anomaly period 1956-1975.



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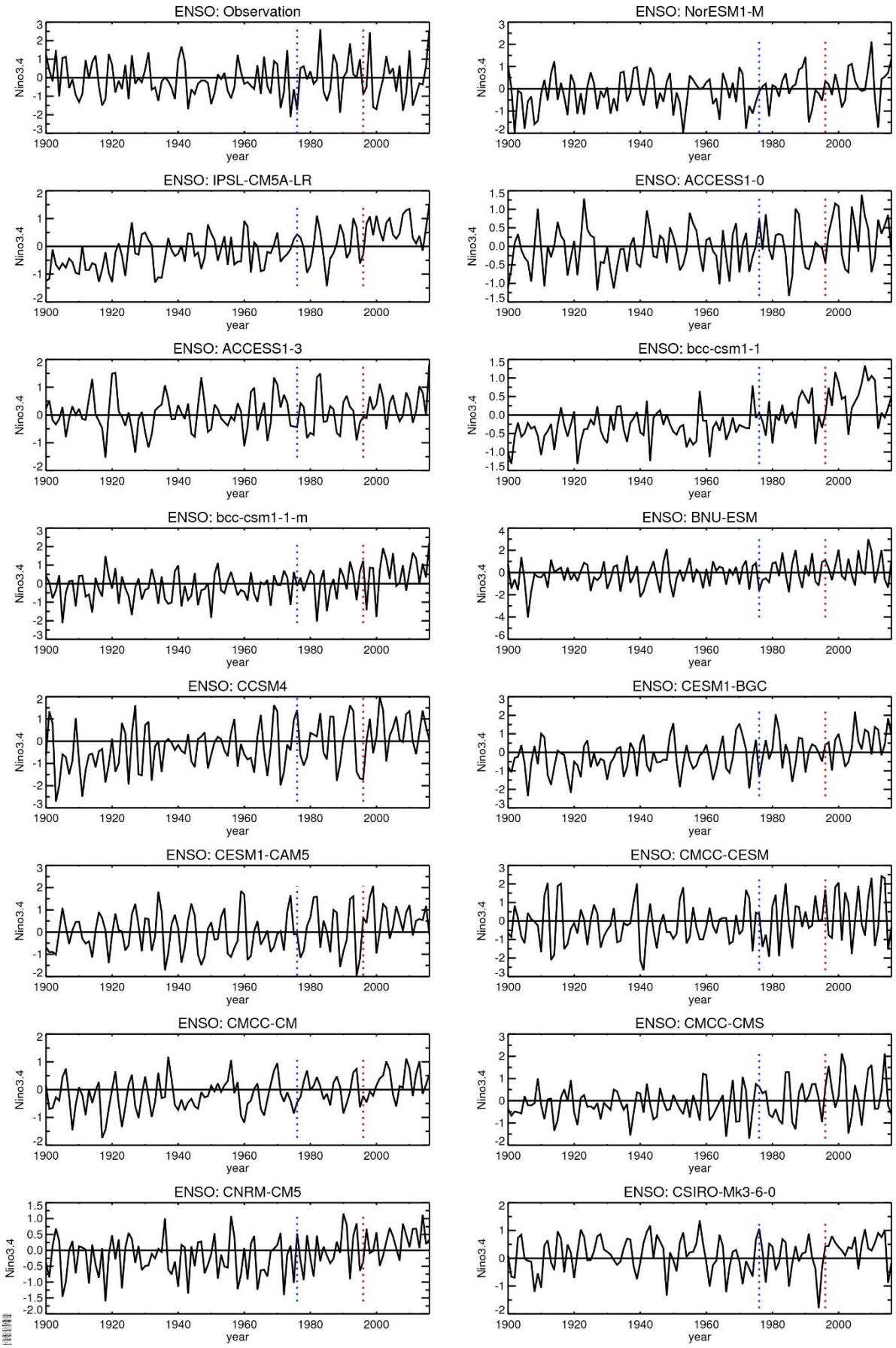
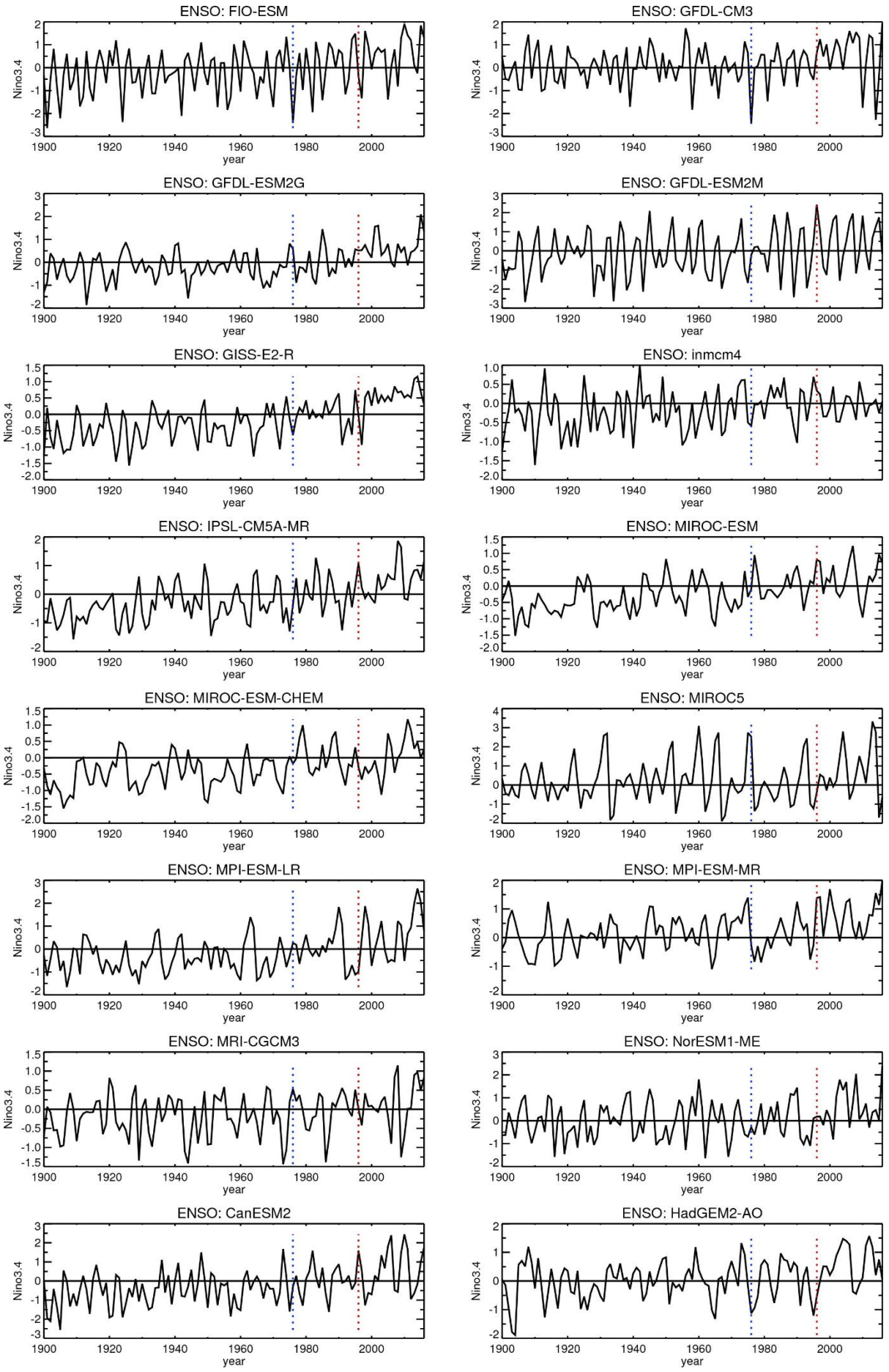

ENSO: Observation
ENSO: NorESM1-M
ENSO: IPSL-CM5A-LR
ENSO: ACCESS1-0
ENSO: ACCESS1-3
ENSO: bcc-csm1-1
ENSO: bcc-csm1-1-m
ENSO: BNU-ESM
ENSO: CCSM4
ENSO: CESM1-BGC
ENSO: CESM1-CAM5
ENSO: CMCC-CESM
ENSO: CMCC-CM
ENSO: CMCC-CMS
ENSO: CNRM-CM5
ENSO: CSIRO-Mk3-6-0
Nino3.4
year
1900
1920
1940
1960
1980
2000


ENSO: FIO-ESM
ENSO: GFDL-CM3
ENSO: GFDL-ESM2G
ENSO: GFDL-ESM2M
ENSO: GISS-E2-R
ENSO: inmcm4
ENSO: IPSL-CM5A-MR
ENSO: MIROC-ESM
ENSO: MIROC-ESM-CHEM
ENSO: MIROC5
ENSO: MPI-ESM-LR
ENSO: MPI-ESM-MR
ENSO: MRI-CGCM3
ENSO: NorESM1-ME
ENSO: CanESM2
ENSO: HadGEM2-AO
Nino3.4
year
1900
1920
1940
1960
1980
2000

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