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# Supplement of

# Magnitude and frequency of heat and cold waves in recent decades: the case of South America

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## Supplement

Figure S1 shows the maximum value in 5-year periods of the  $HWMI_{tn}$  from 1980 to 2014.

Figure S2 shows the maximum value in 5-year periods of the CWMI<sub>tx</sub> from 1980 to 2014.

Figure S3 and Fig. S4 complement the analysis showing the annual values from 1980 to 2014 of  $HWMI_{tx}$  and  $CWMI_{tn}$ , respectively.

## HWMItn 1980-1984 HWMItn 1985-1989 HWMItn 1990-1994 HWMItn 1995-1999

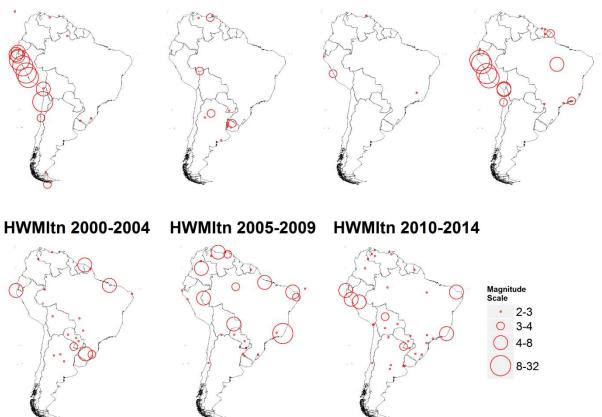


Figure S1 Magnitude of Heat Wave Index of minimum temperature (HWMI $_{tn}$ ) for 5-year periods from 1980 to 2014.

### CWMItx 1980-1984 CWMItx 1985-1989 CWMItx 1990-1994 CWMItx 1995-1999



### CWMItx 2000-2004 CWMItx 2005-2009 CWMItx 2010-2014

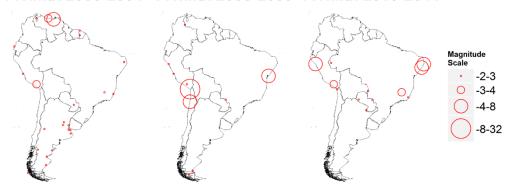
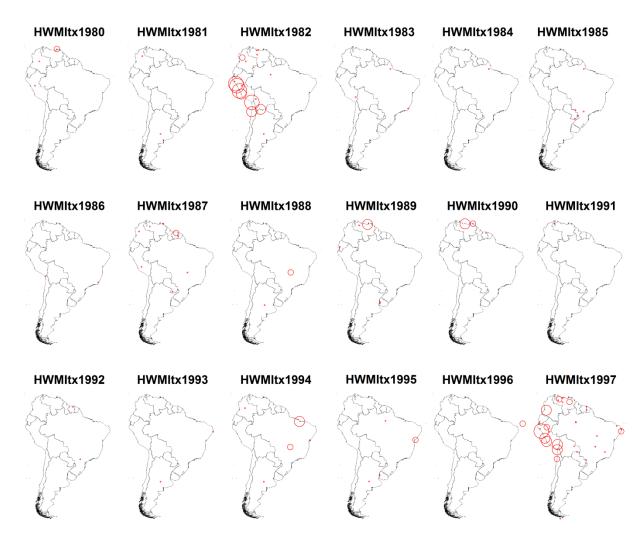


Figure S2 Magnitude of Cold Wave Index of maximum temperature (CWMI $_{tx}$ ) for 5-year periods from 1980 to 2014



continue

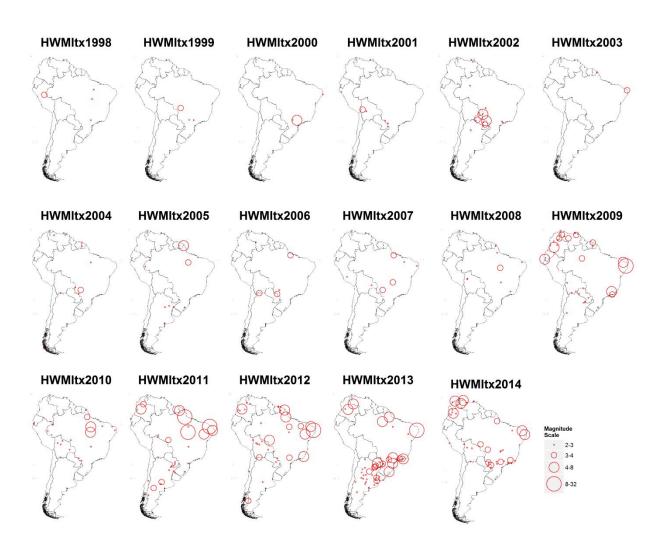
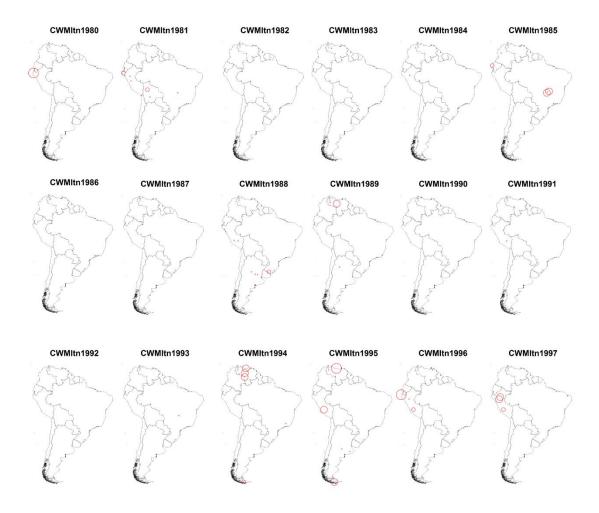


Figure S3 Annual values of Magnitude of Heat Wave Index of maximum temperature ( $HWMI_{tx}$ ) from 1980 to 2014.



Continue

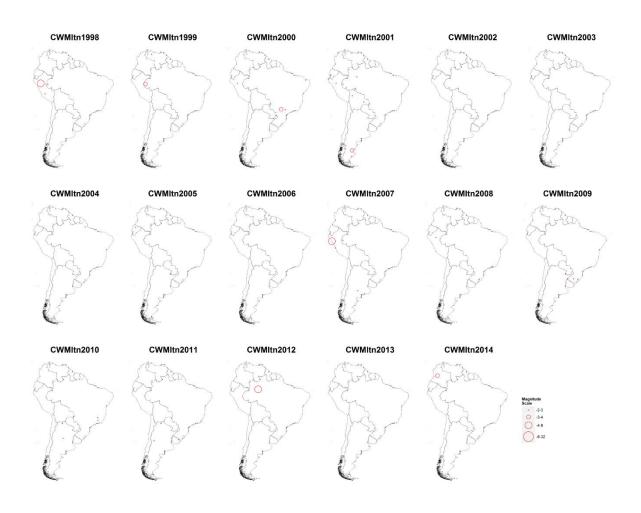


Figure S4 Annual values of Magnitude of Cold Wave Index of minimum temperature (CWMI $_{tn}$ ) from 1980 to 2014.