



**Supplementary Figure 1.** Time series of mean annual temperature for 12 weather stations of northern Peru.

**Supplementary Table 1.** Mann-Kendall results for times series of mean annual temperature (1970-2010) for 12 Peruvian weather stations.

Meteorological station	Tau	P value	
Cayalti	0.177153617	0.10573	
Chulucanas	0.062657602	0.57154	
Chusis	0.086428106	0.44597	
El Espinal	0.058028053	0.60795	
El Salto	0.456654787	0.00003	*
Ferreñafe	0.159663871	0.18190	
Jayanca La Viña	-0.00813954	0.94815	
La Esperanza	0.144254714	0.18869	
Lambayeque	-0.048780531	0.66636	
Mallares	0.293399423	0.00725	*
Miraflores	0.173187971	0.11844	
Morropon	0.362859488	0.00088	*