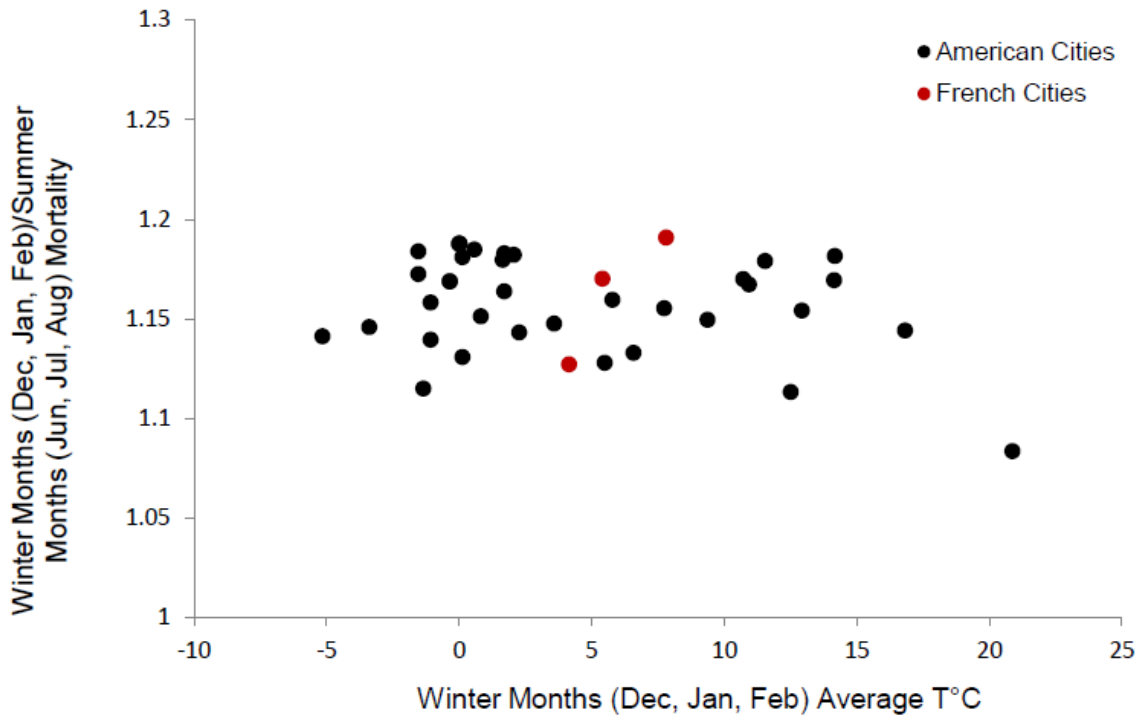


Supplemental File for “Winter Season Mortality: Will Climate Warming Bring Benefits?”

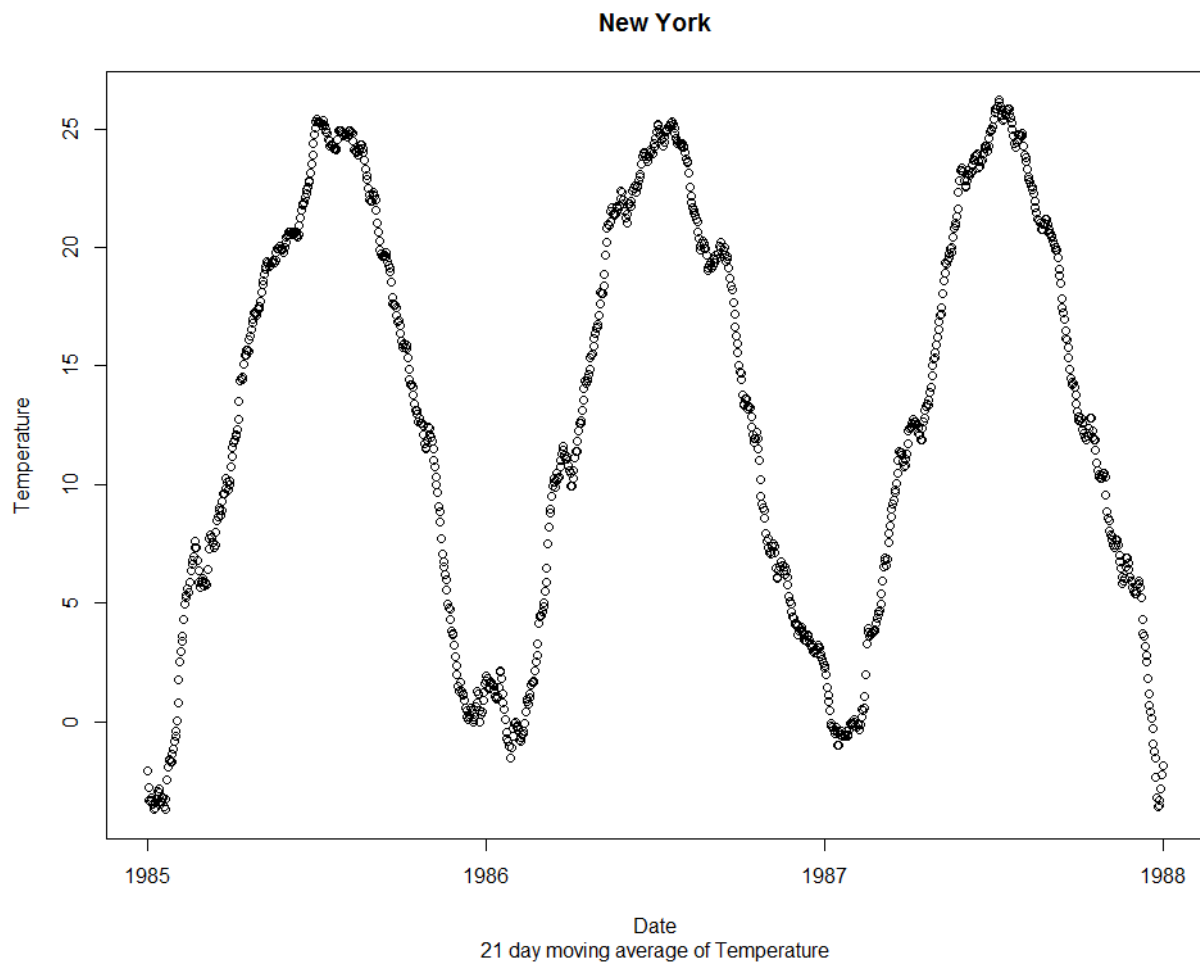
City	Mean Annual T°C	Winter T°C	Difference Between Summer and Winter T°C	Winter Season Excess Mortality
French Cities				
Lyon	12.49	4.16	16.93	1.13
Paris	12.44	5.41	14.32	1.17
Marseille	15.50	7.80	15.87	1.19
American Cities				
Atlanta	17.13	7.74	18.35	1.16
Boston	10.87	0.12	21.62	1.18
Chicago	10.87	0.12	21.62	1.13
Cleveland	10.42	-1.07	22.66	1.14
Washington, DC	14.50	3.59	21.75	1.15
Denver	10.42	-1.07	22.66	1.16
Hartford	10.27	-1.53	23.34	1.18
Houston	20.83	12.51	15.96	1.11
Jacksonville	20.41	12.93	14.48	1.15
Jersey	13.05	1.71	22.63	1.18
Las Vegas	20.28	9.38	22.35	1.15
Los Angeles	17.34	14.18	6.13	1.18
Madison	8.27	-5.15	25.97	1.14
Memphis	17.23	6.58	20.74	1.13
Miami	25.03	20.87	7.68	1.08
Middlesex	11.65	0.57	22.14	1.18
Milwaukee	9.07	-3.39	24.50	1.15
Nassau	11.37	0.82	21.35	1.15
Newark	13.05	1.71	22.63	1.16
New Haven	10.27	-1.53	23.34	1.17
Oakland	15.31	11.54	6.50	1.18
Orlando	22.74	16.83	11.10	1.14
Philadelphia	13.31	2.06	22.41	1.18
Portland	10.92	-0.35	22.18	1.17
Providence	10.85	0.00	21.77	1.19
Sacramento	10.85	0.00	21.77	1.19
Salt Lake	10.85	0.00	21.77	1.19
San Diego	17.66	14.15	6.65	1.17
San Francisco	14.54	10.73	6.74	1.17
San Jose	16.28	10.93	10.24	1.17
Seattle	11.41	5.49	12.41	1.13
Spokane	8.71	-1.35	20.56	1.11
St. Louis	13.98	1.65	23.95	1.18
Tacoma	11.88	5.79	12.45	1.16
New York	13.24	2.26	21.97	1.14
Pittsburgh	10.92	-0.35	22.18	1.17

Supplemental Table 1. Temperature and mortality data for the cities included in the analysis. French cities include data from 1971 to 2007, American cities include data from 1985 to 2006. Mean annual temperature calculated using the monthly means across all years. Mean winter and summer temperature calculated using December, January, and February temperatures and June, July and August temperatures, respectively. Winter

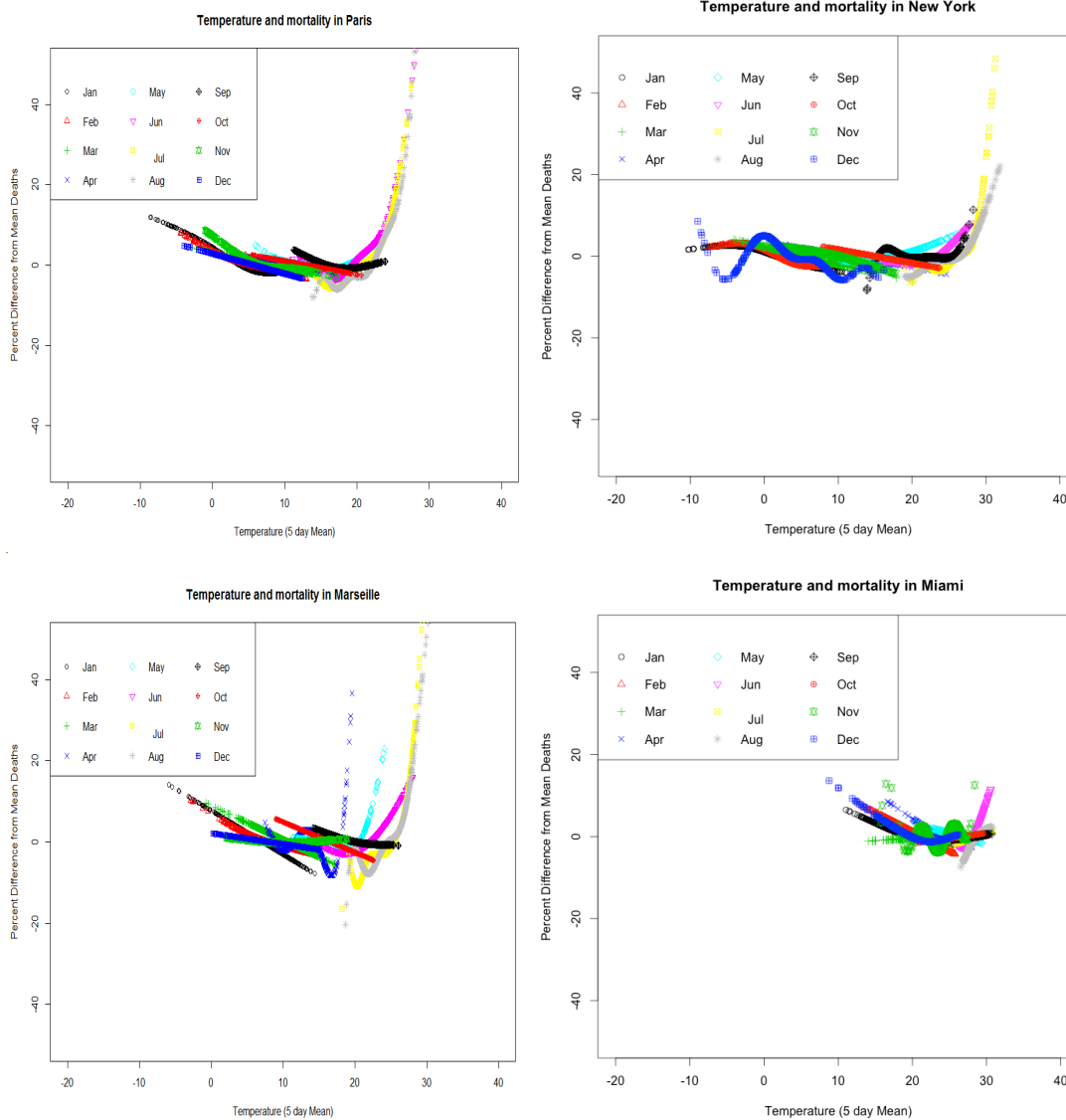
season excess mortality calculated as a ratio of December, January, and February deaths to June, July and August deaths.



Supplemental Figure 1. Scatter plot of winter excess mortality (the ratio of Dec, Jan, and Feb deaths to Jun, Jul, Aug deaths) vs. winter season mean temperature over 22 years in 35 cities. See supplemental file, Table 1 for a list of cities and input data.



Supplemental Figure 2. 21 day moving average plot for three years in NY.



Supplemental Figure 3. Penalized spline functions relating mortality with mean temperature on the five days ending on the day of death by calendar month in Paris and Marseille (left) and New York City and Miami (right). The Paris and Marseille data are for 1971 to 2007 and the NYC and Miami data are for 1985 to 2006.