

Howell - selected pandemics and epidemics

- This is a collection of literature graphs
- Original version of this file 23Jan2007
- Added influenza 22Aug2018 from my commentary of before 05Oct2006

Temperature – [CO2] Coherence

Cynthia Kuo, Craig Lindberg, David J. Thomson "Coherence established between atmospheric carbon dioxide and global temperature"

Nature, vol 343, 22Feb1990, p 700-714

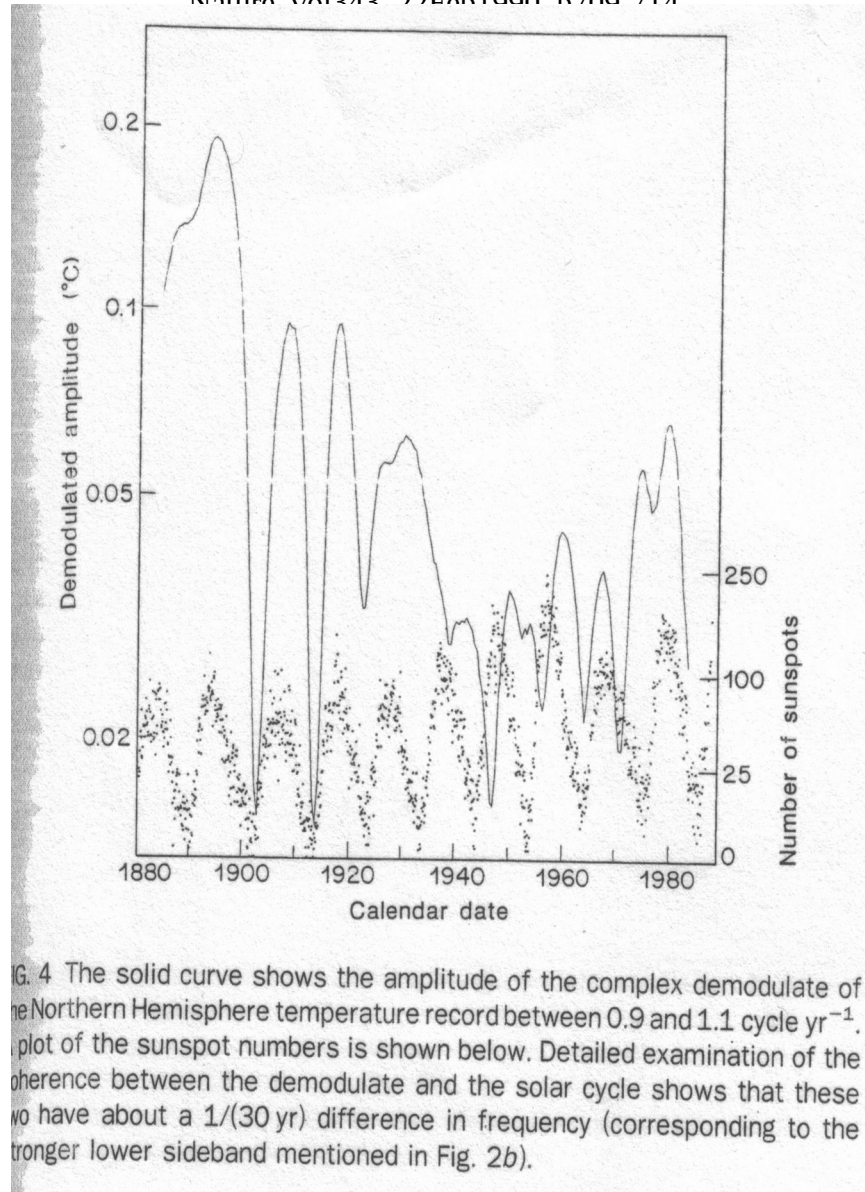


FIG. 4 The solid curve shows the amplitude of the complex demodulate of the Northern Hemisphere temperature record between 0.9 and 1.1 cycle yr^{-1} . A plot of the sunspot numbers is shown below. Detailed examination of the coherence between the demodulate and the solar cycle shows that these two have about a $1/(30 \text{ yr})$ difference in frequency (corresponding to the stronger lower sideband mentioned in Fig. 2b).

The Plague in Kazakhstan - 1955-1995

S. Davis, M. Begon, L. De Bruyn, V.S. Ageyev, N.L. Klassovskly, S.B. Pole, H. Viljugrein, N. Chr. Stenseth, H. Leirs "Predictive Thresholds for Plague in Kazakhstan" Science, Volume 304, Issue 5671, 30 April 2004, Pages 736-738

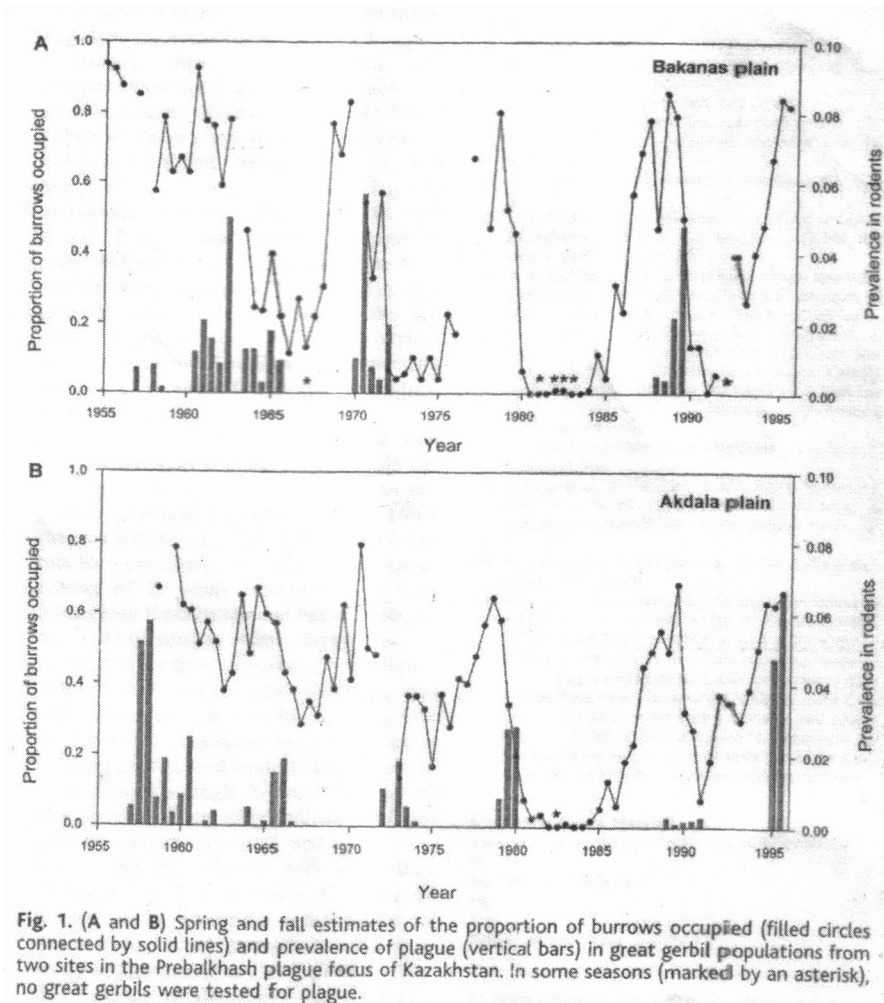
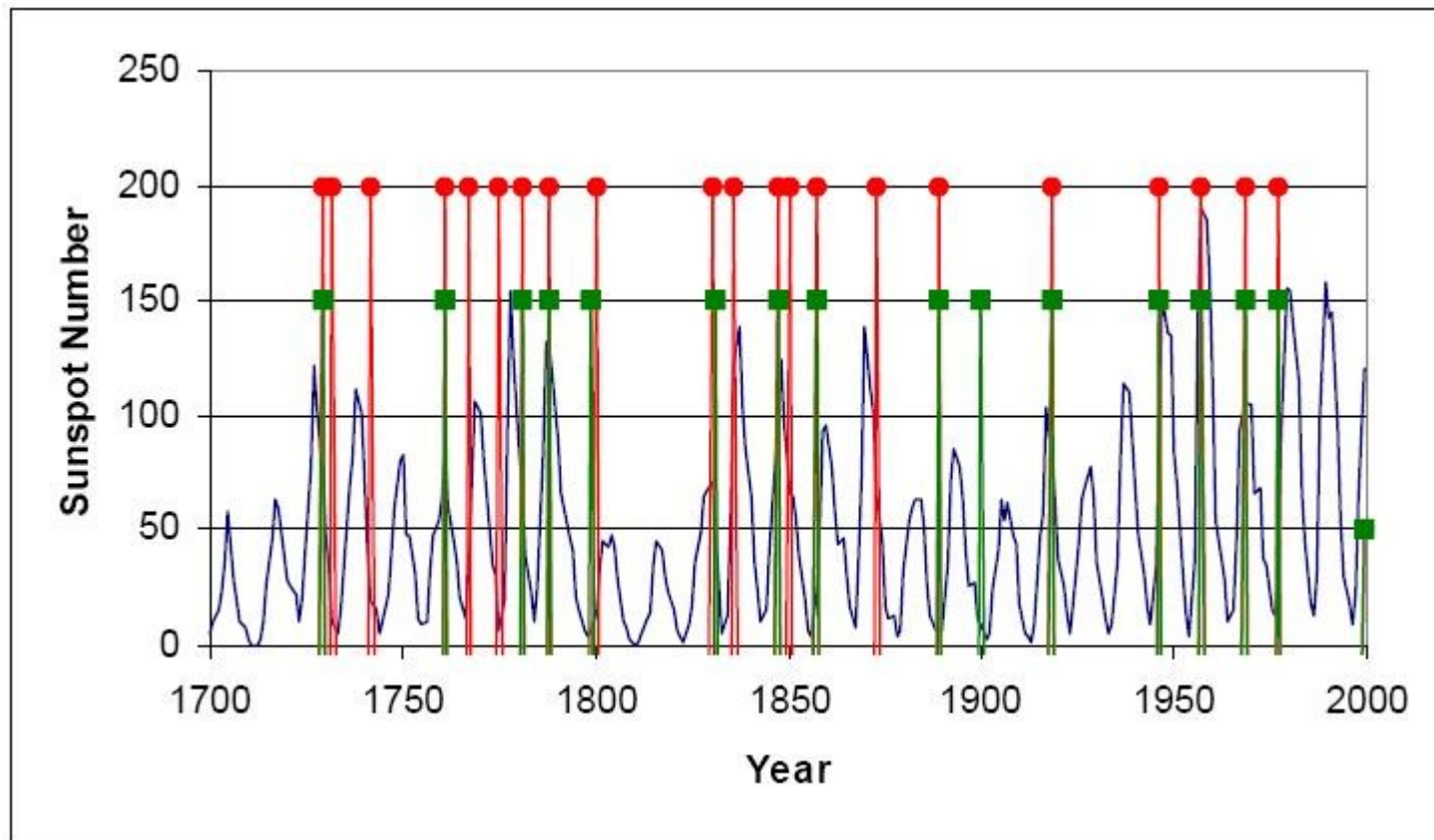


Fig. 1. (A and B) Spring and fall estimates of the proportion of burrows occupied (filled circles connected by solid lines) and prevalence of plague (vertical bars) in great gerbil populations from two sites in the Prebalkhash plague focus of Kazakhstan. In some seasons (marked by an asterisk), no great gerbils were tested for plague.

Influenza pandemics since 1720

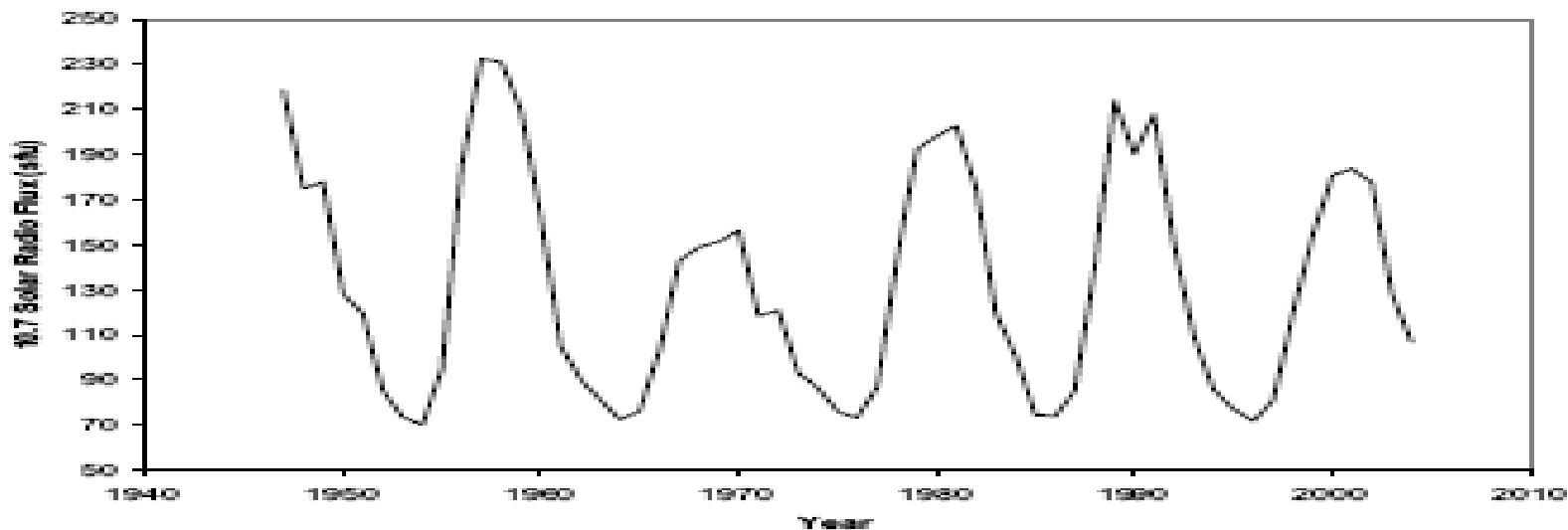
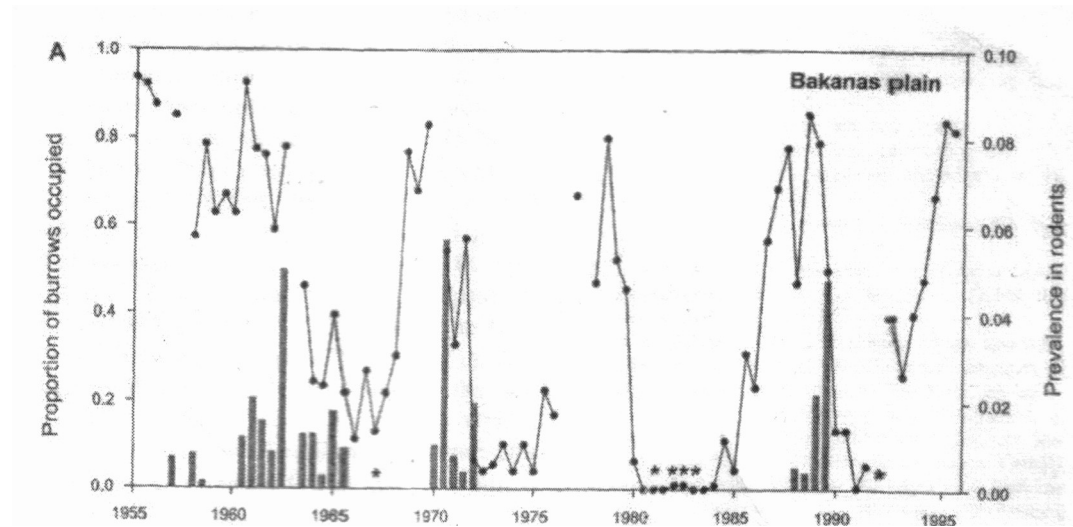
Tapping, Mathias, Surkan



The Plague in Kazakhstan - 1955-1995

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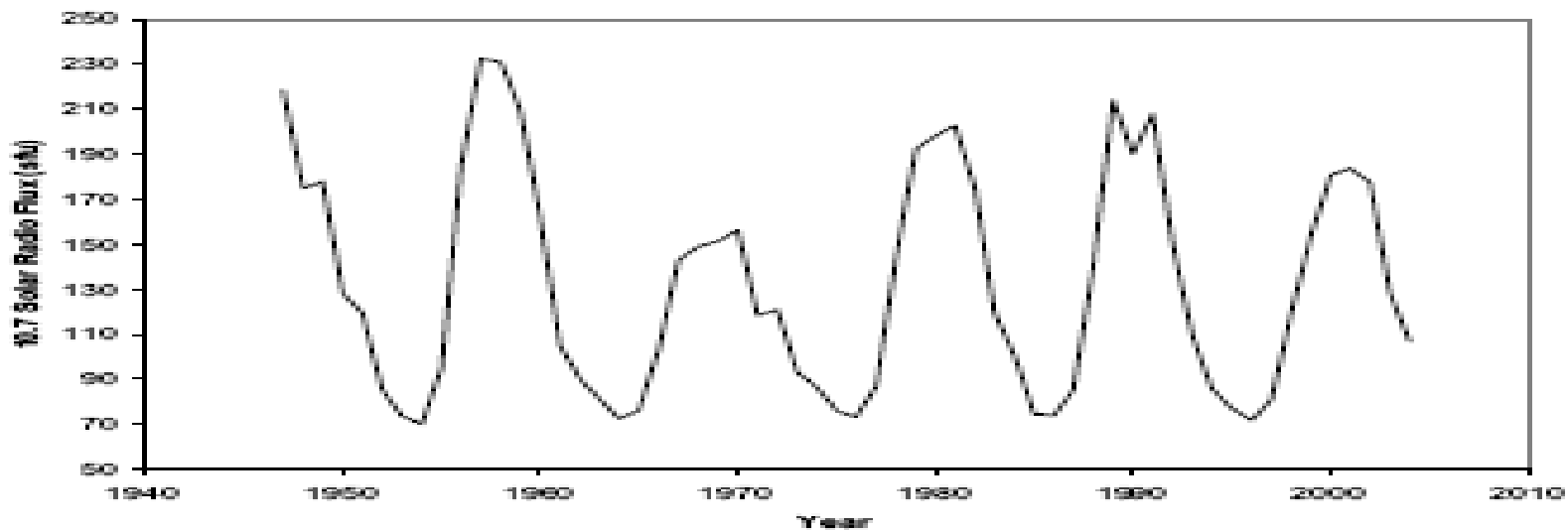
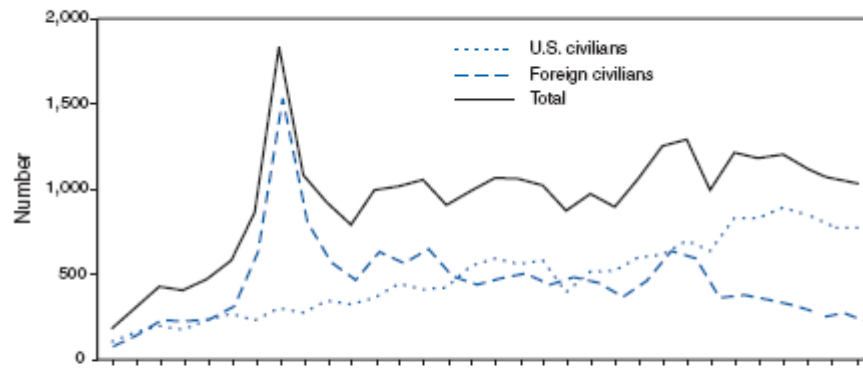
Ken Tapping "Modeling solar irradiance: values and uncertainties" - presentation to the Engineering Institute of Canada's Climate Change Technology Conference, Ottawa, 12May06 <http://www.ccc2006.ca/eng/index.html> (not published yet as of May06)



Malaria – USA

<http://www.cdc.gov/mmwr/preview/mmwrhtml/ss5504a2.htm>

FIGURE 1. Number of malaria cases among U.S. and foreign civilians, by year — United States,* 1973–2004†

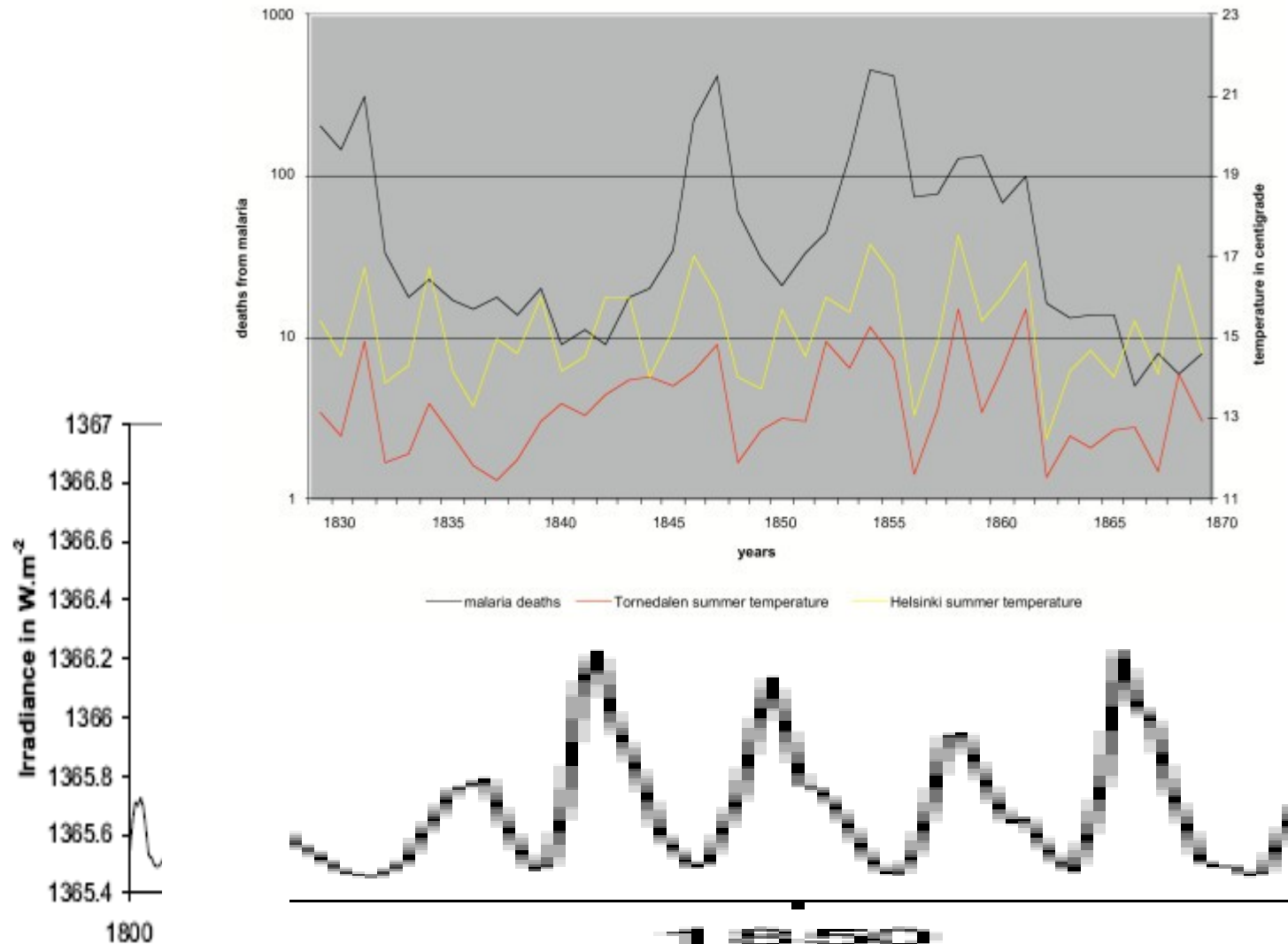


Malaria – Finland 1800's

(not shown during Toastmaster presentation)

Malaria deaths in southern Finland and mean temperatures of the preceding summer in Helsinki and Tornedalen 1830-1870.

Finland - <http://bmc.ub.uni-potsdam.de/1475-2875-4-19/>

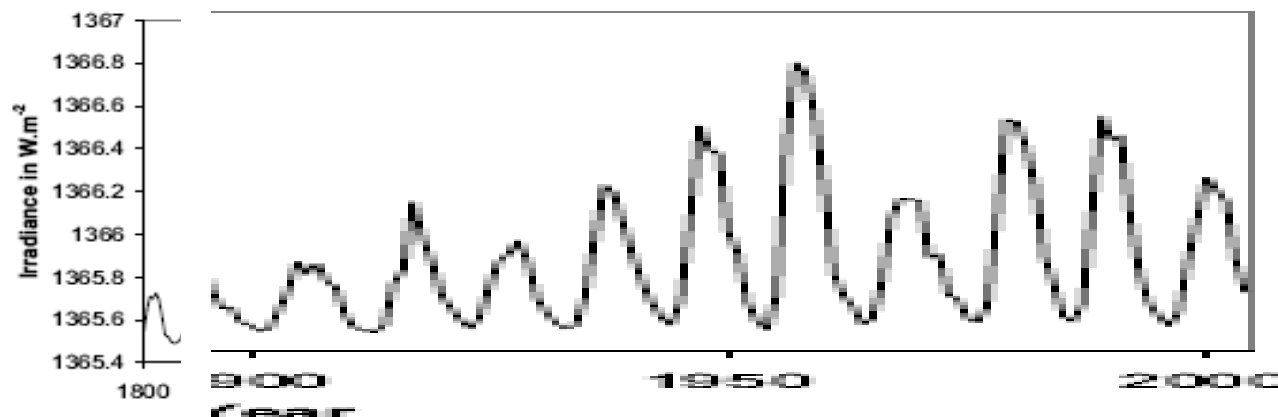
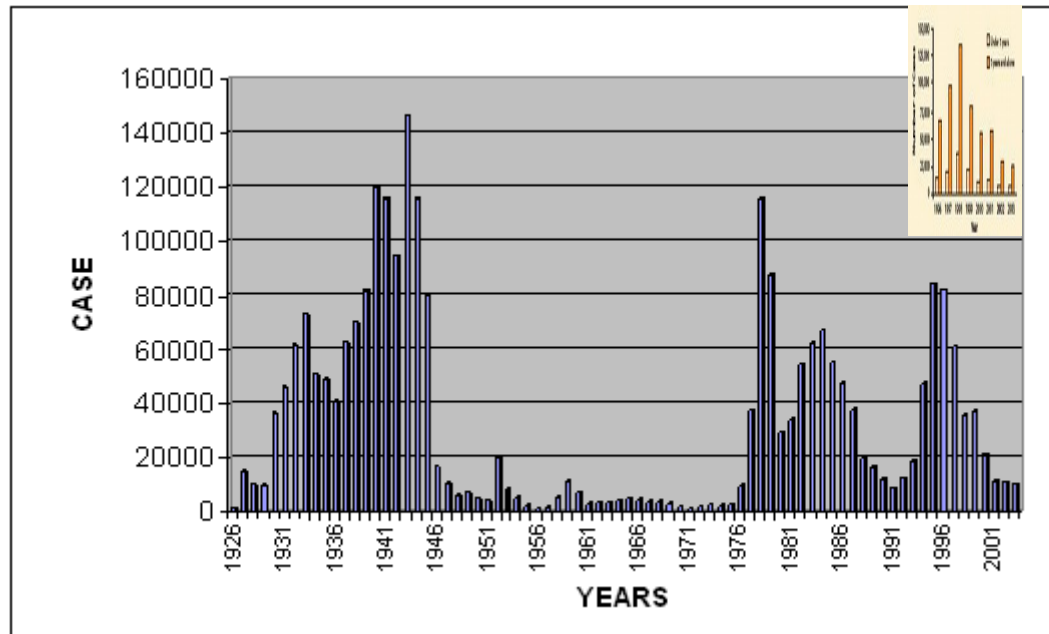


Malaria – Turkey, Eritrea

<http://www.saglik.gov.tr/eng/malaria/malaria.htm>

http://www.rti.org/pubs/rti_Eritrea_malaria_brochure.pdf#search=%22malaria%20cases%20historic%22

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Cholera - epidemics are indicated by orange triangles

Norman Longate "King cholera" 1966 Hamish Hamilton, London 271pp

Vibrio cholerae and Asiatic Cholera © 2005 Kenneth Todar University of Wisconsin-Madison Department of Bacteriology

<http://textbookofbacteriology.net/cholera.html>

