

Is the Climate Warming or Cooling?

David R. Easterling

NOAA/National Climatic Data Center

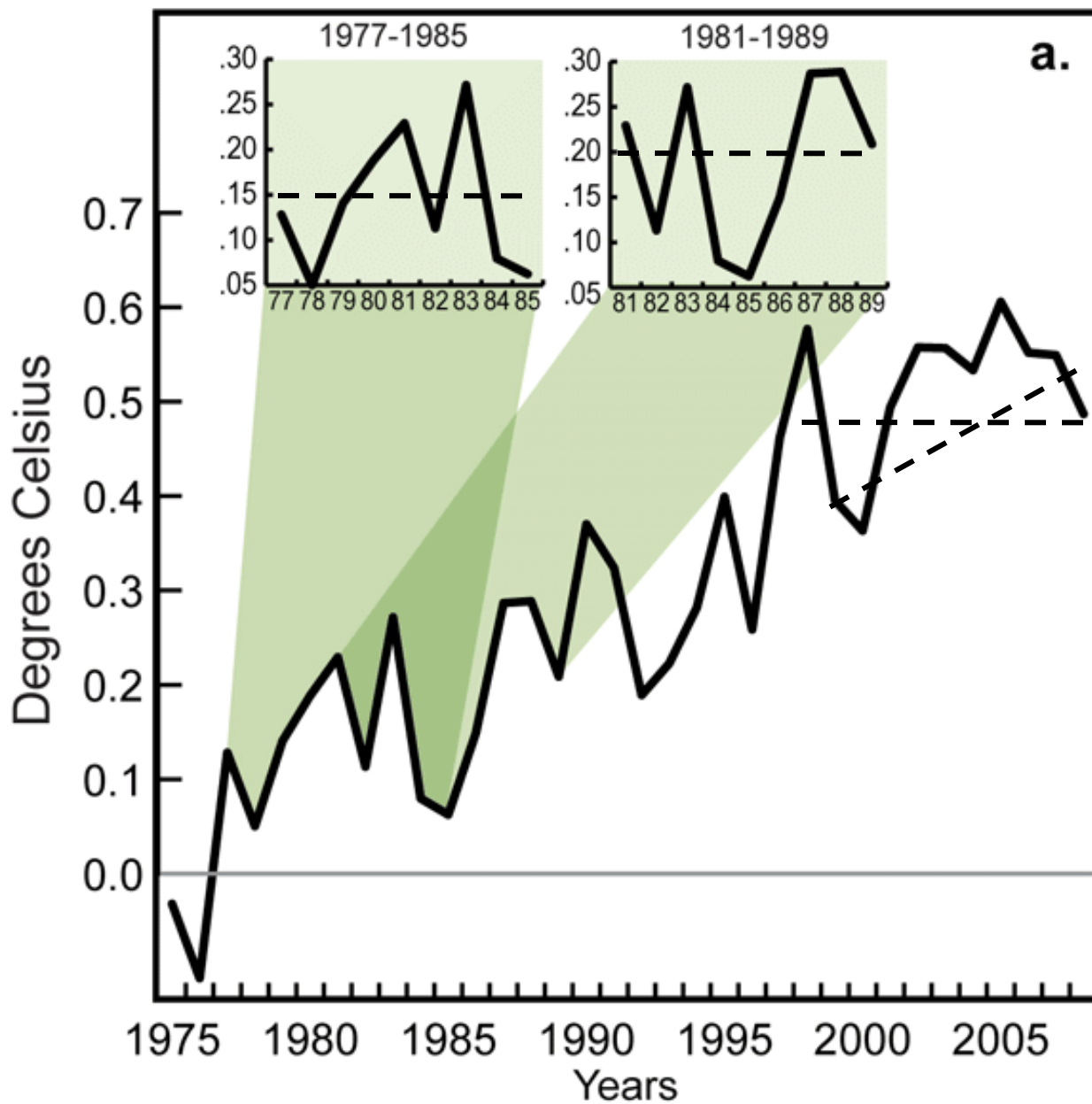
Michael F. Wehner

Lawrence Berkeley National Laboratory

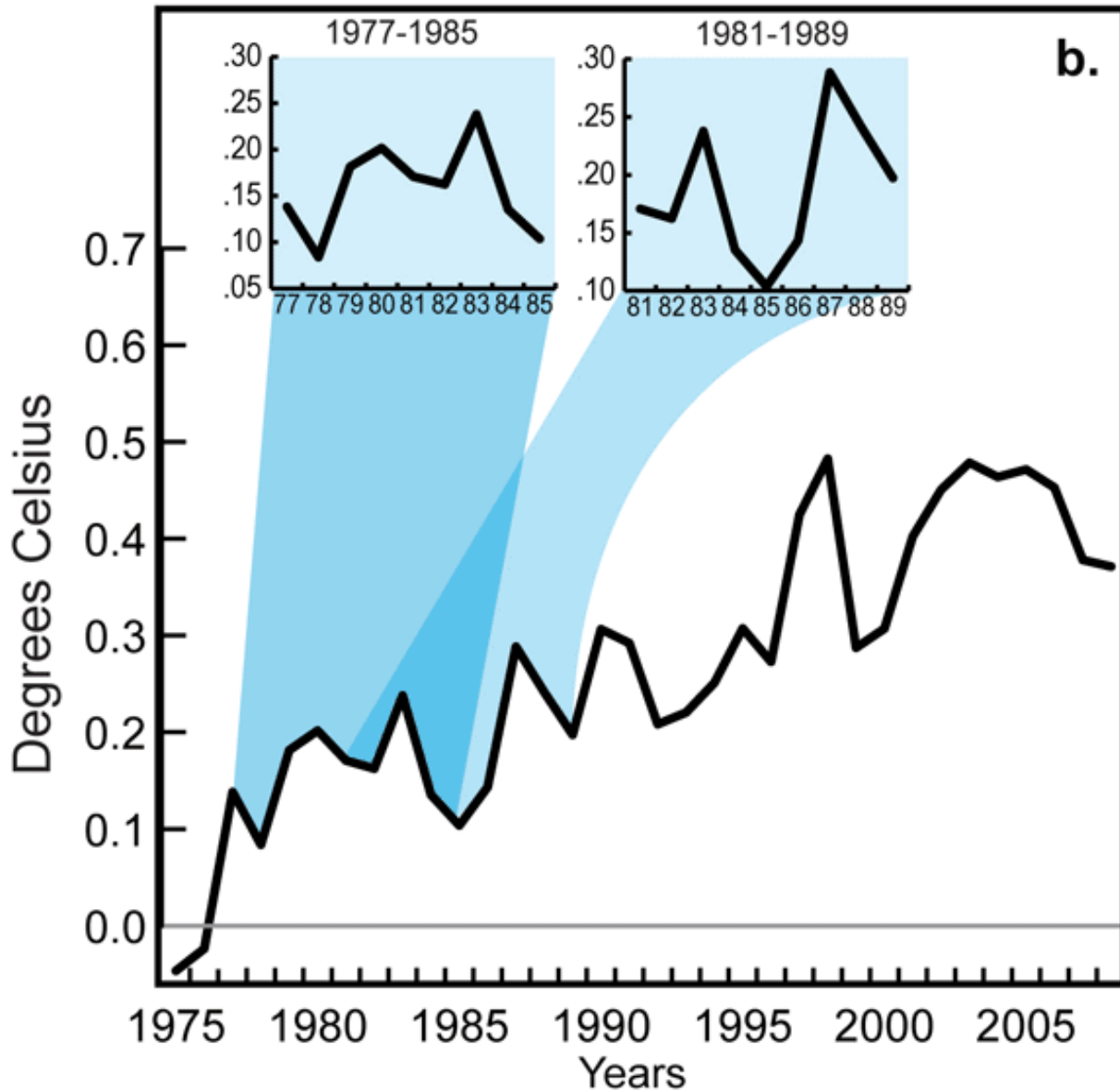
Contrarians

- “The latest warming trend, which appears to have ended in 1998, is the result of the end of the Little Ice Age” *Investor’s Business Daily*, Nov., 2008

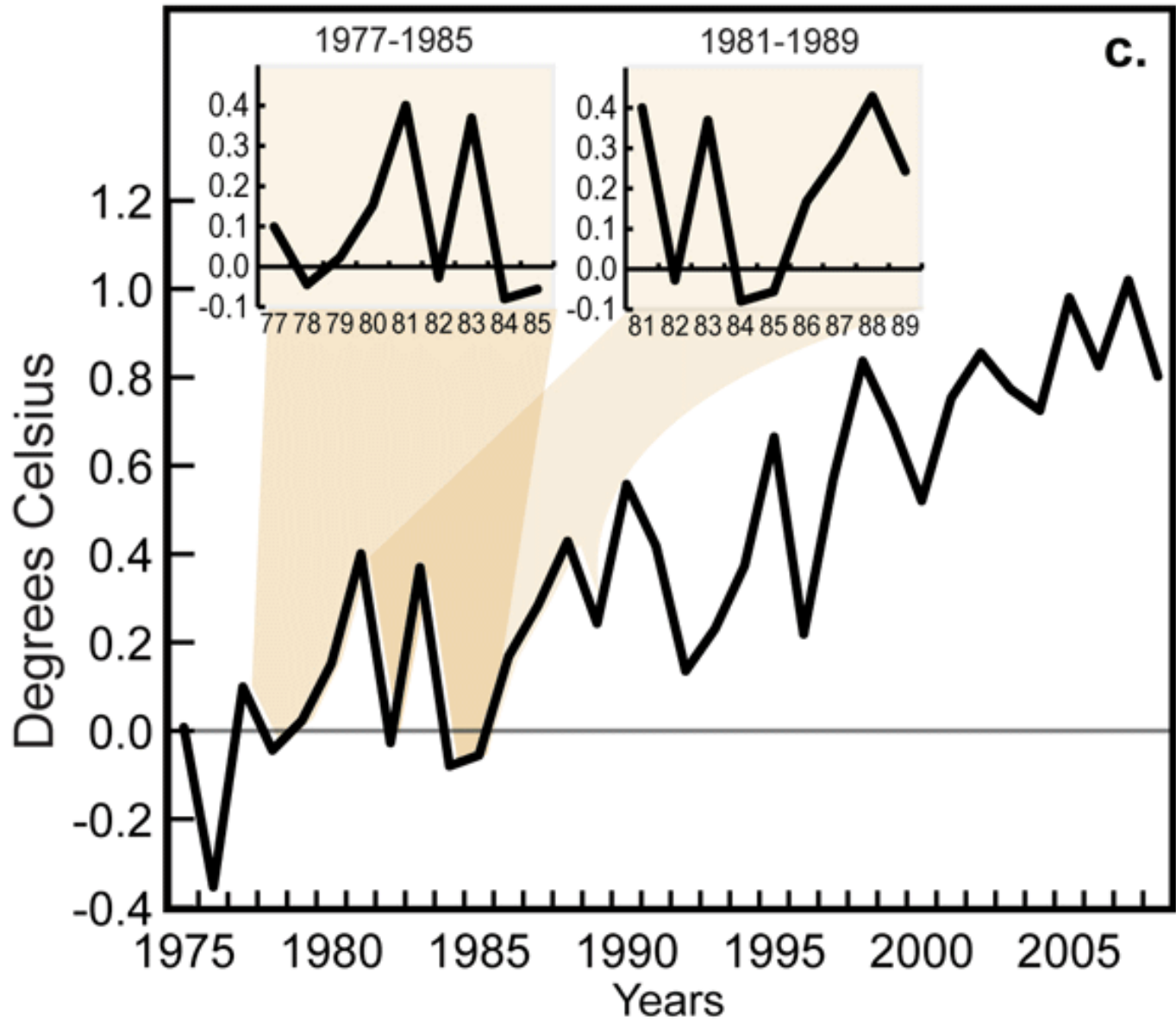
Land and Ocean Temperature



Ocean Only Temperature

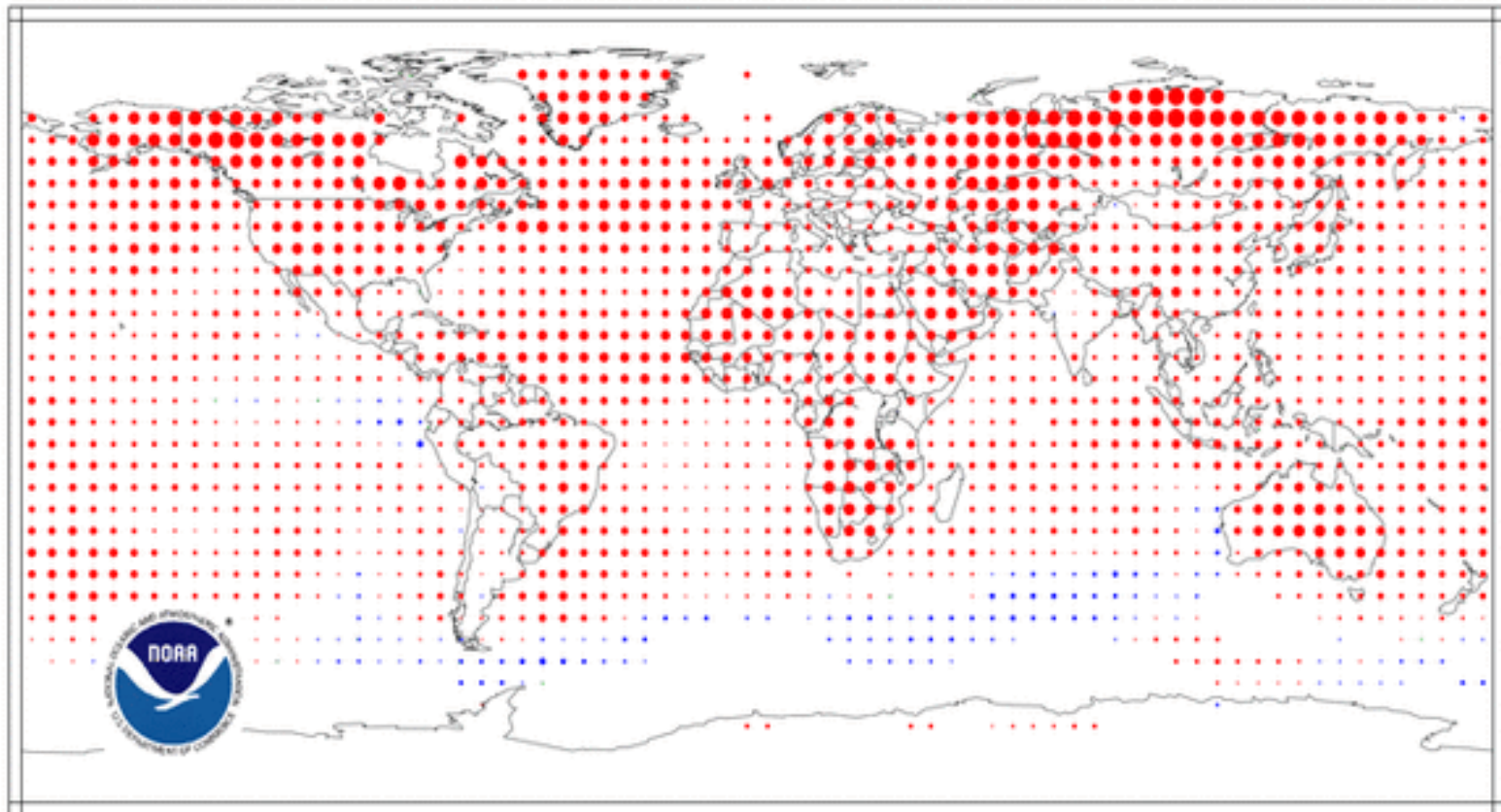


Land Only Temperature



Jan-Dec 2005 Temperature Anomalies

National Climatic Data Center/NESDIS/NOAA



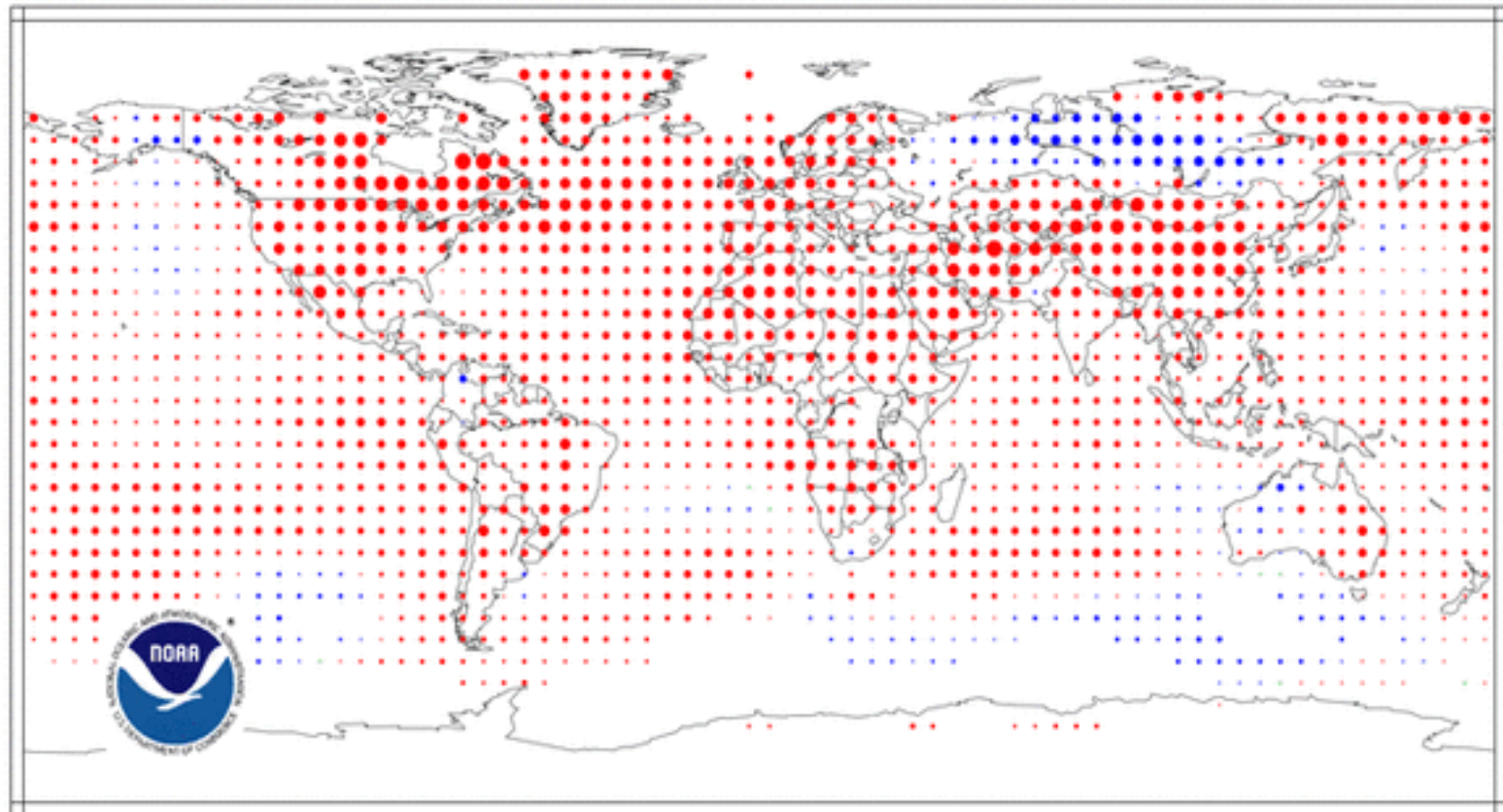
-5C -4C -3C -2C -1C 0C 1C 2C 3C 4C 5C

Degrees Celsius

Jan-Dec 2006 Temperature Anomalies

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA

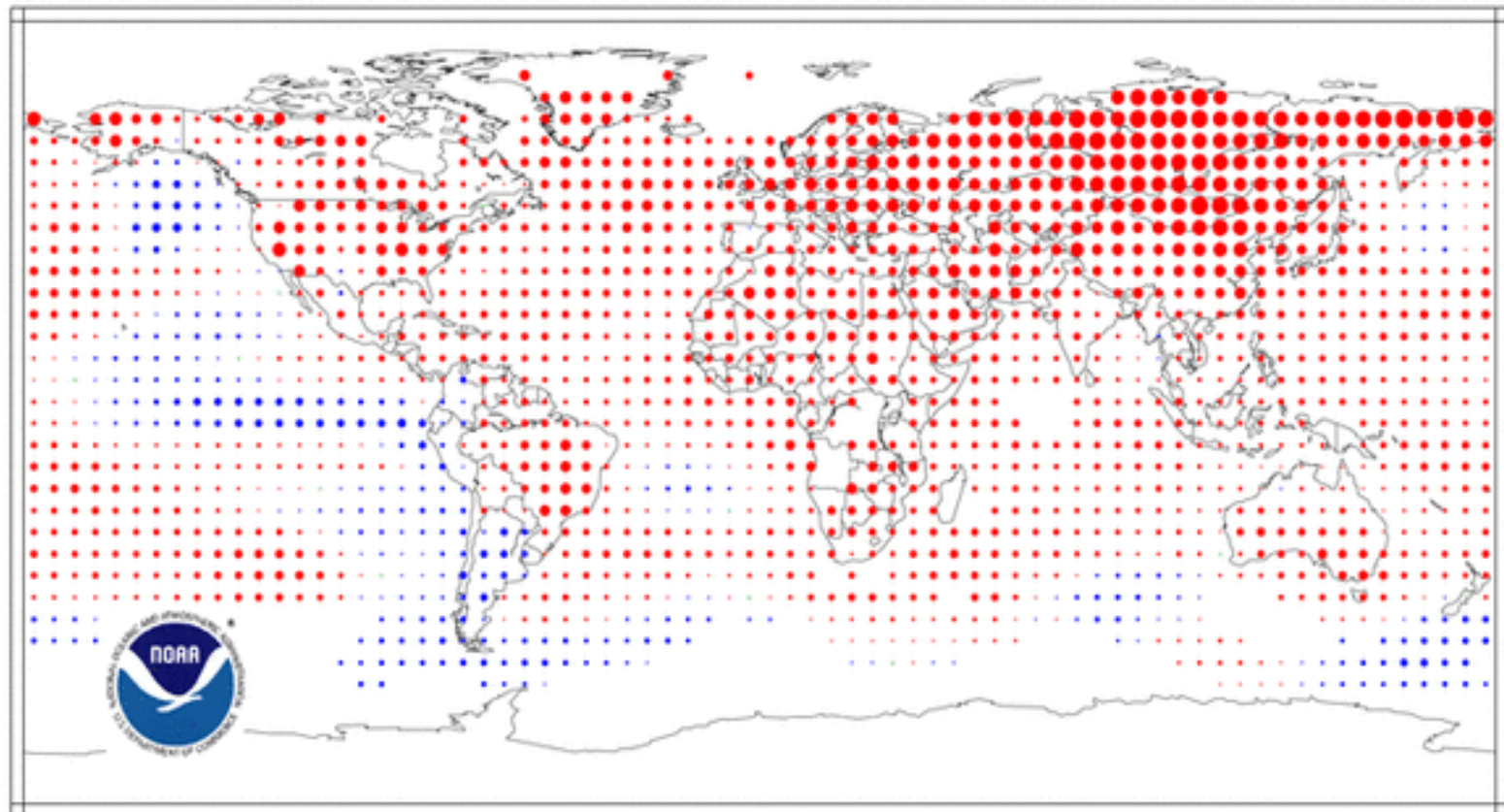


Degrees Celsius

Temperature Anomalies Jan-Dec 2007

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA

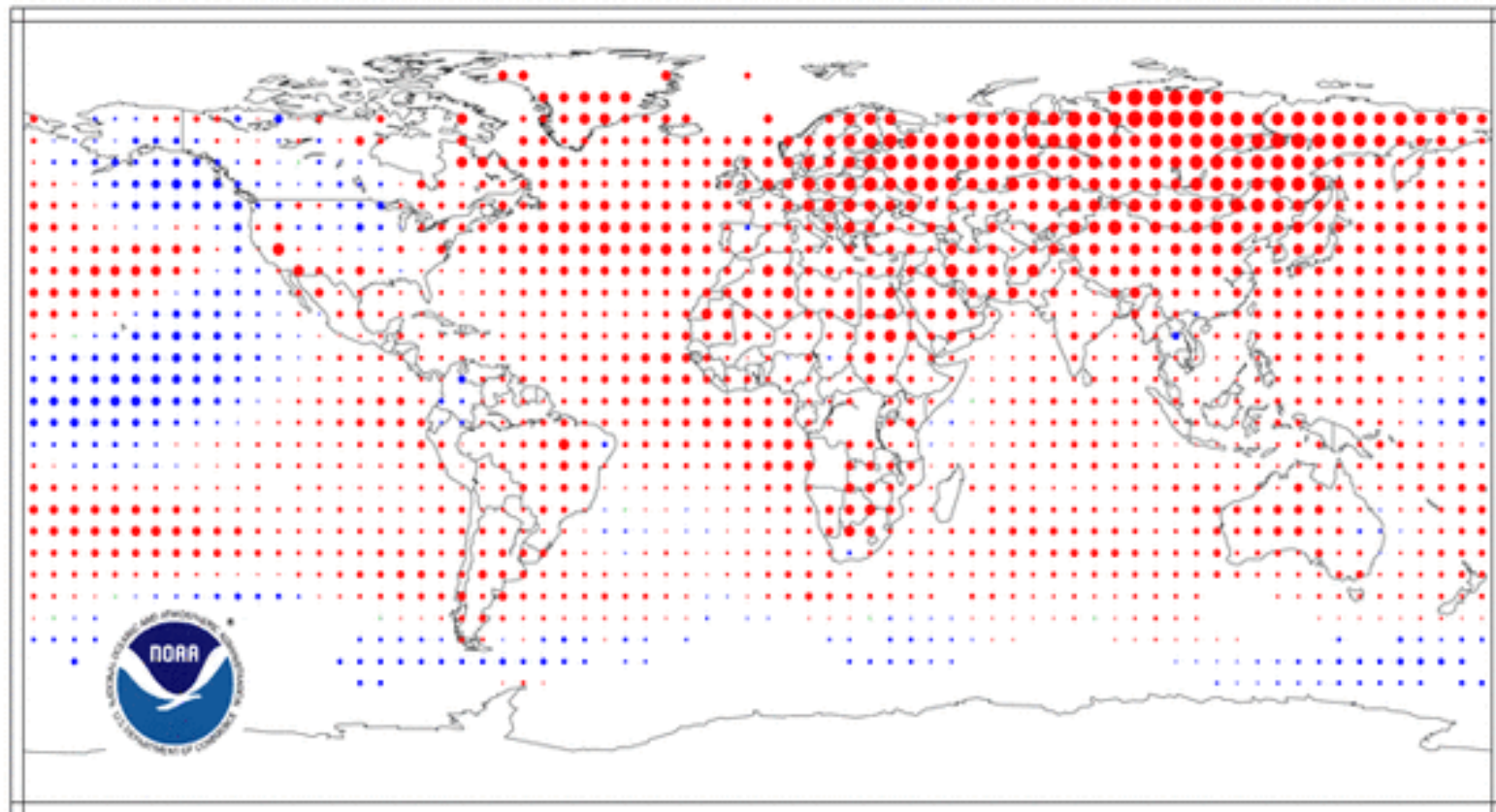


Degrees Celsius

Temperature Anomalies Jan-Dec 2008

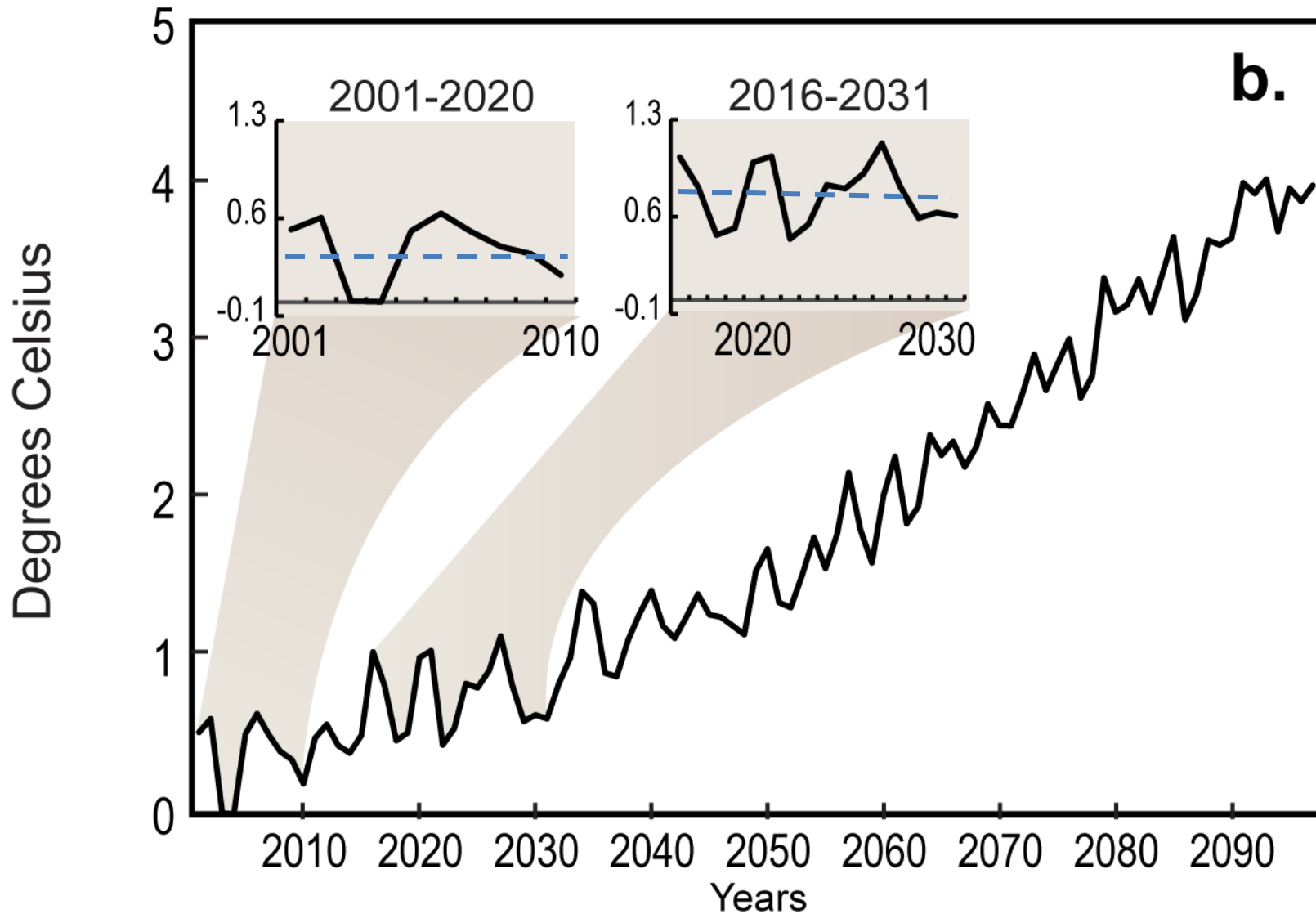
(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA

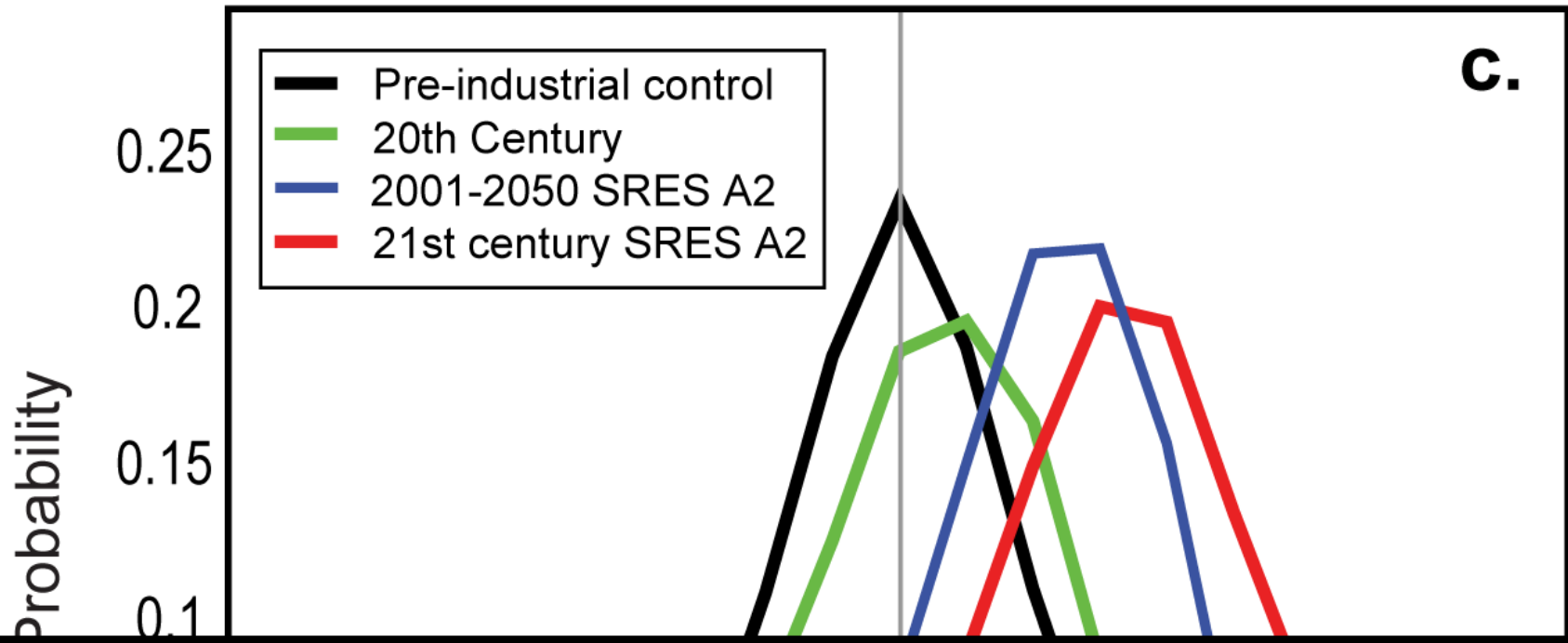


Degrees Celsius

Global Annual Surface Air Temperature,
MPI-ECHAM CGCM
A2 Forcing



Probability of 10 year Trend



C.