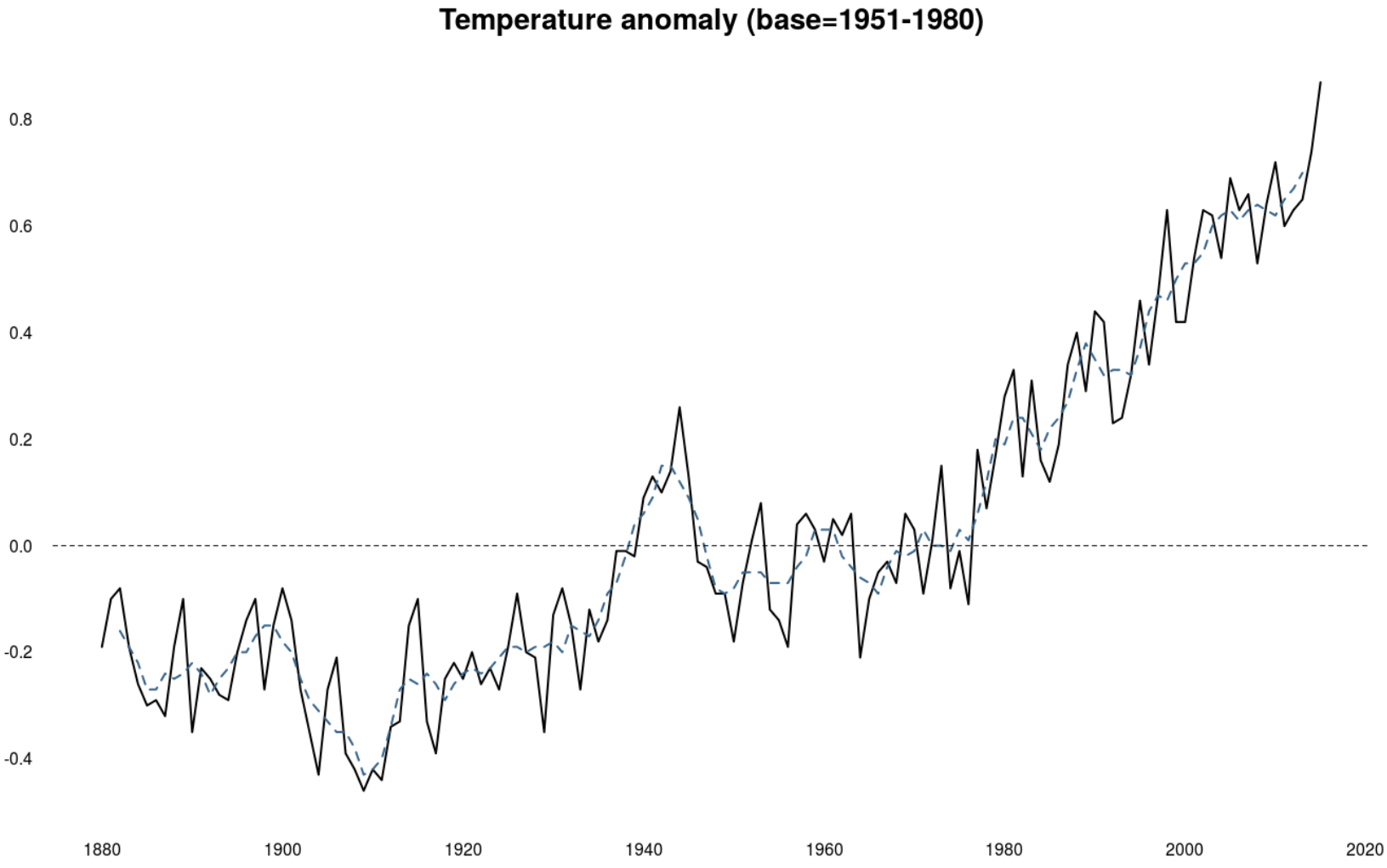
Time series data and macroeconomics

School of Economics, University College Dublin

Spring 2017

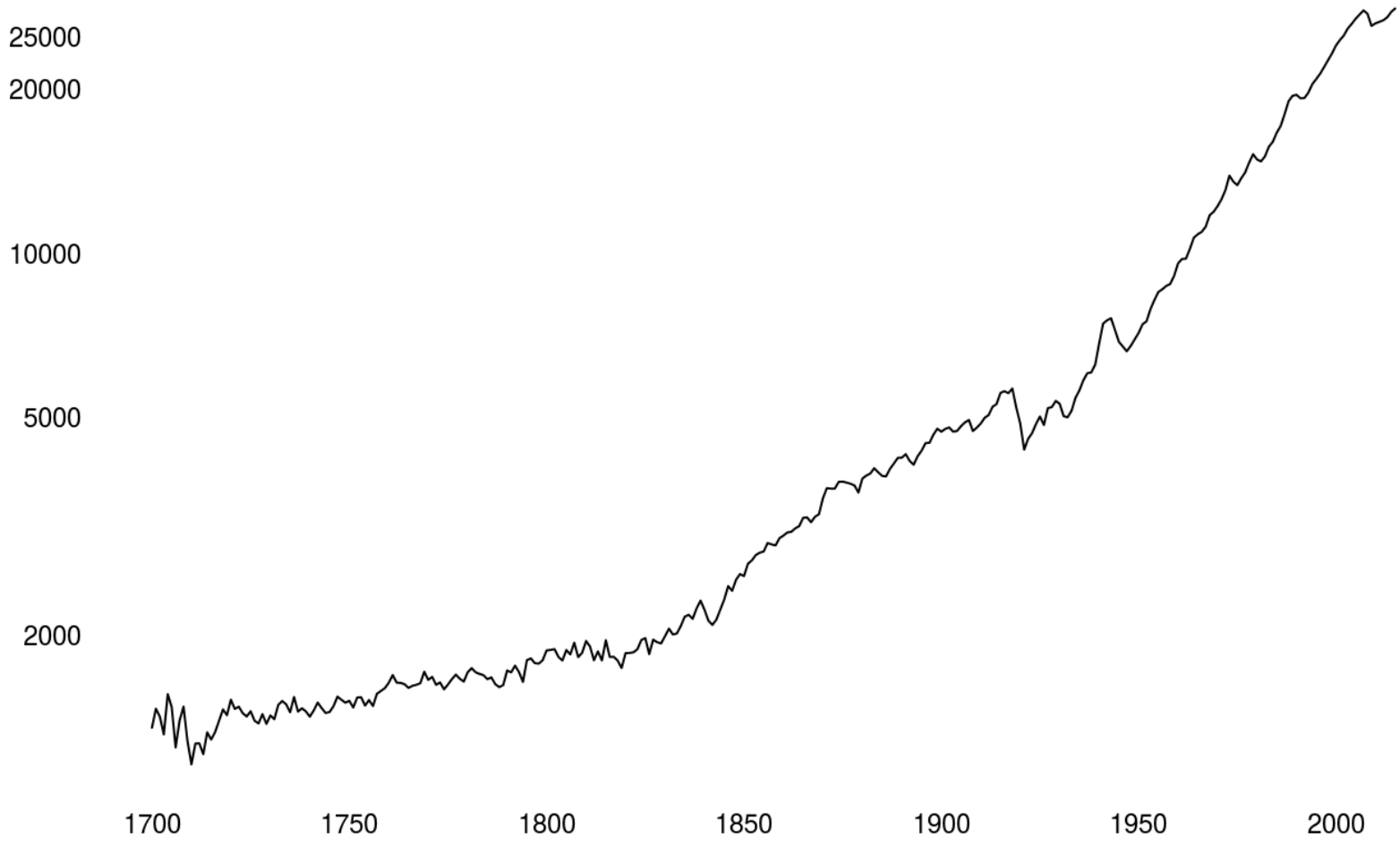
Global average temperature anomaly

Base period is 1951-1989. Data source: NASA



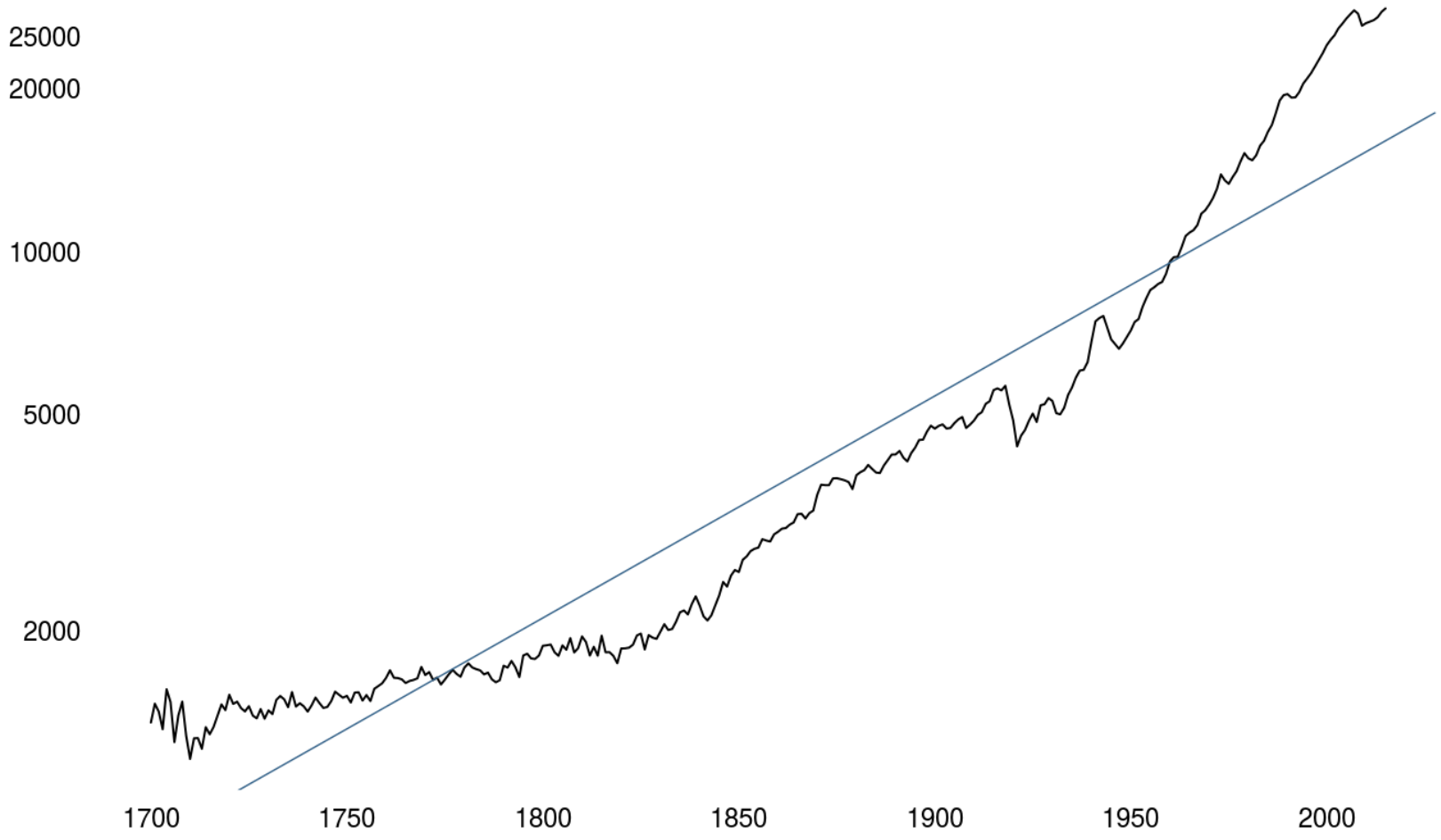
Trends and cycles in U.K. GDP per capita

Data source: Bank of England



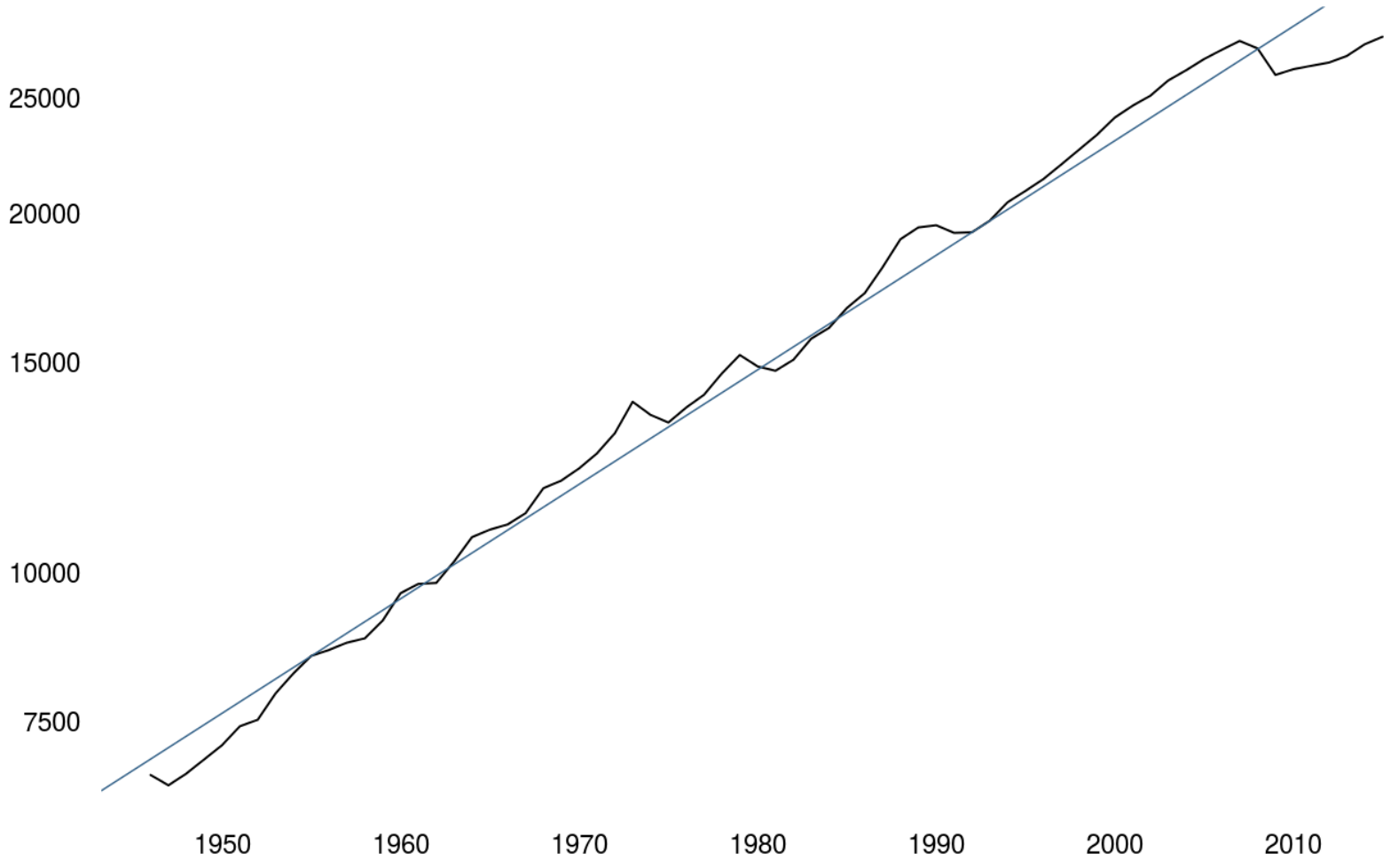
Trends and cycles in U.K. GDP per capita (log-linear trend)

Data source: Bank of England

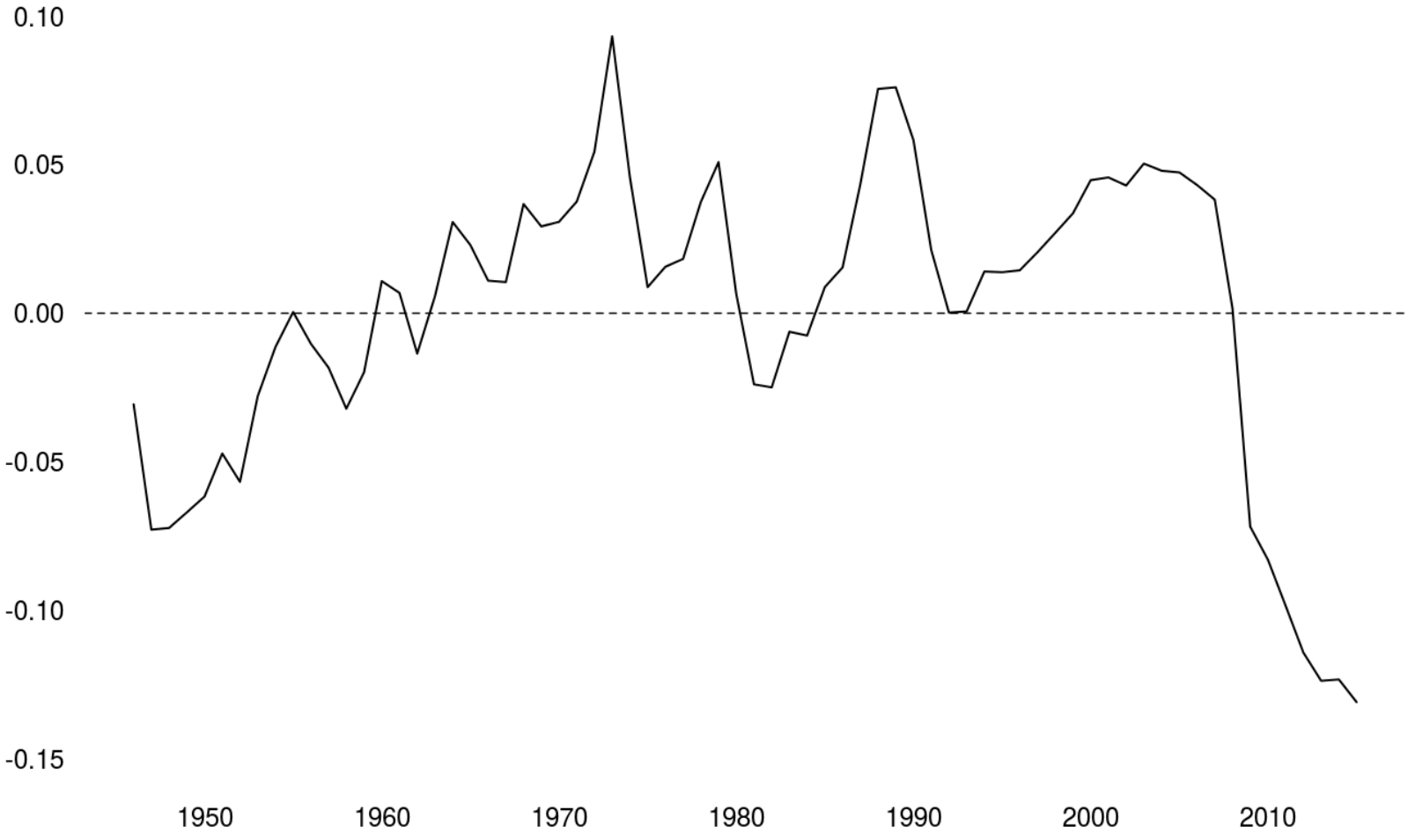


Trends and cycles in U.K. GDP per capita since 1946 (log-linear trend)

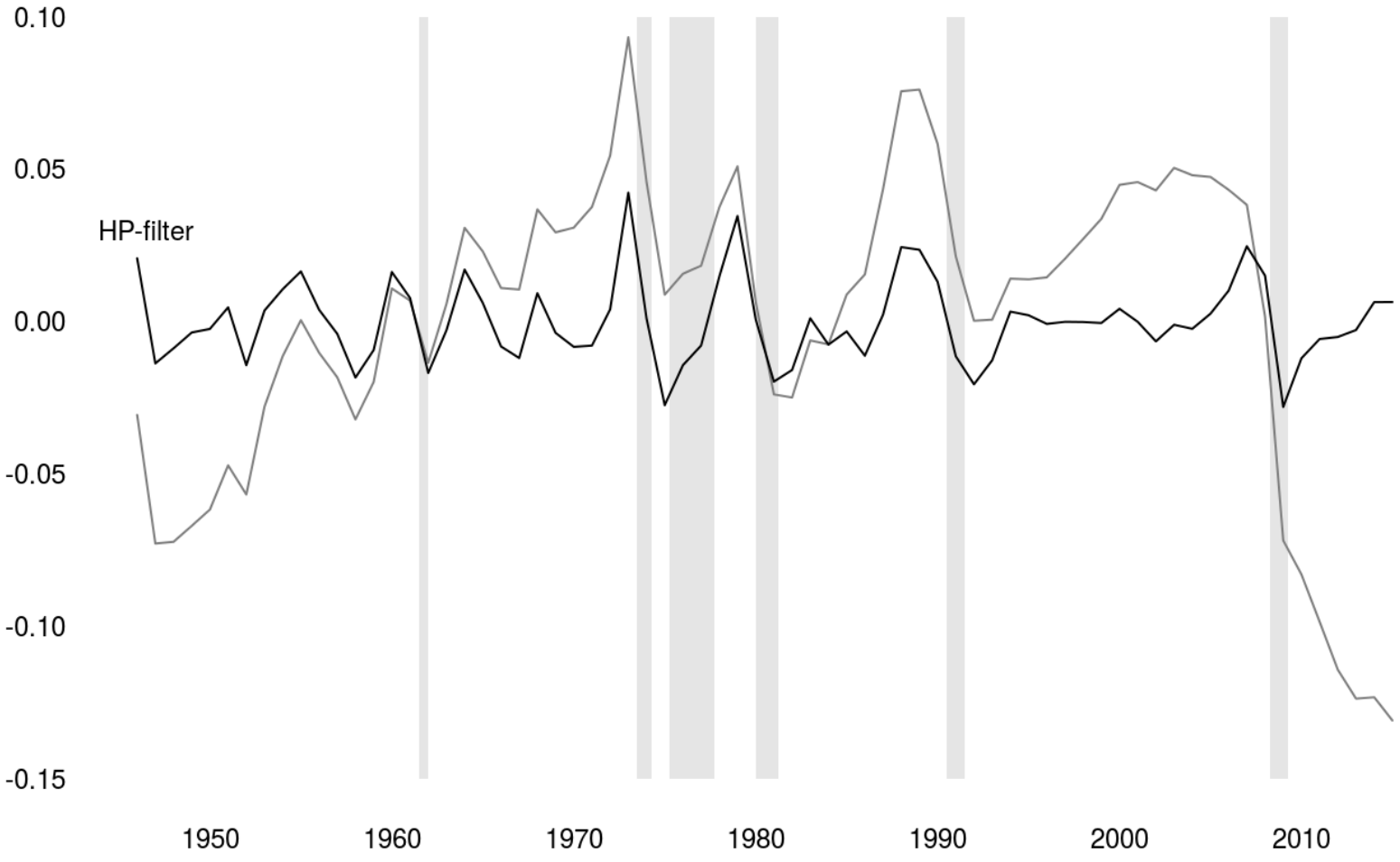
Data source: Bank of England



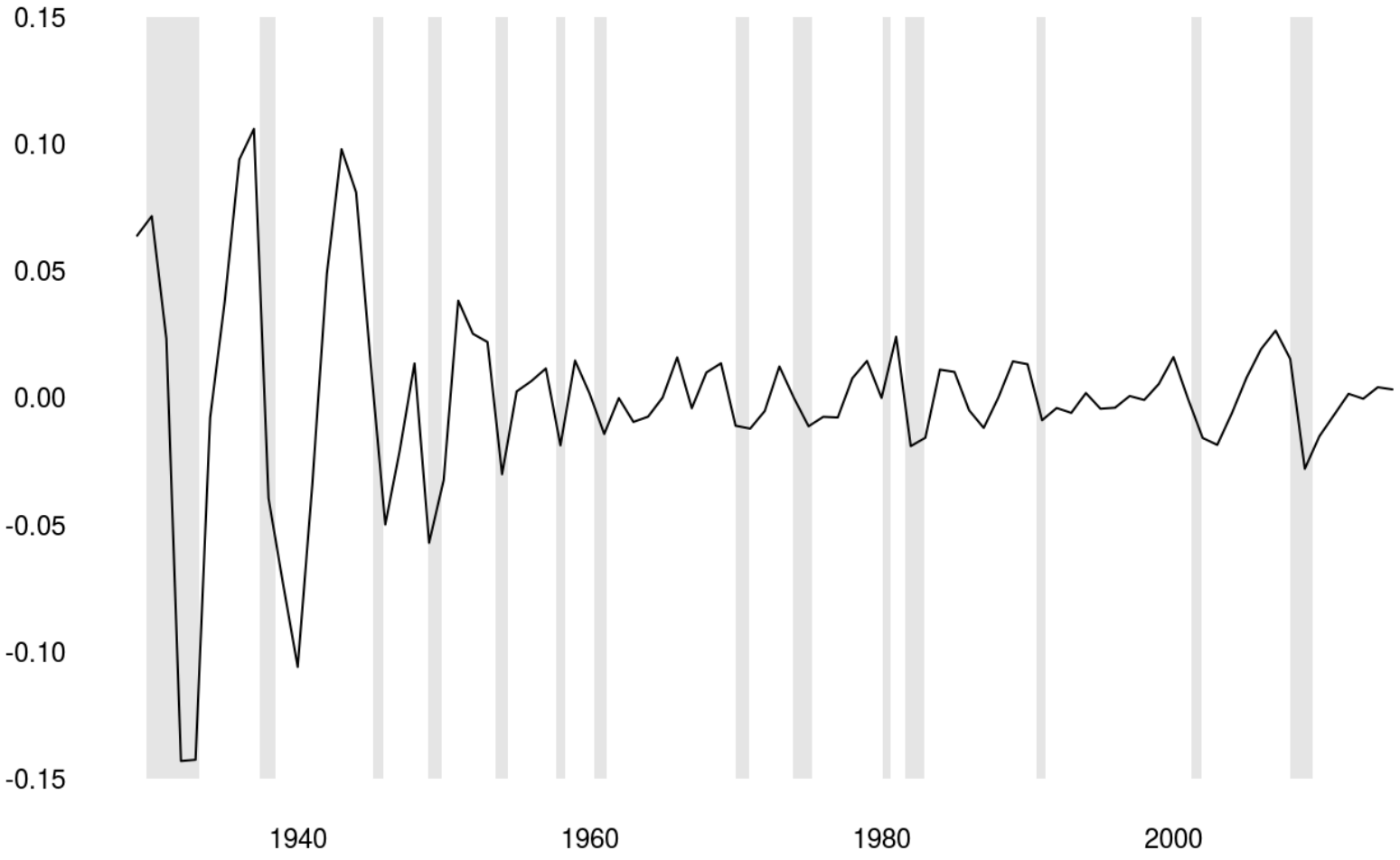
Cycles from log-linear model: U.K.



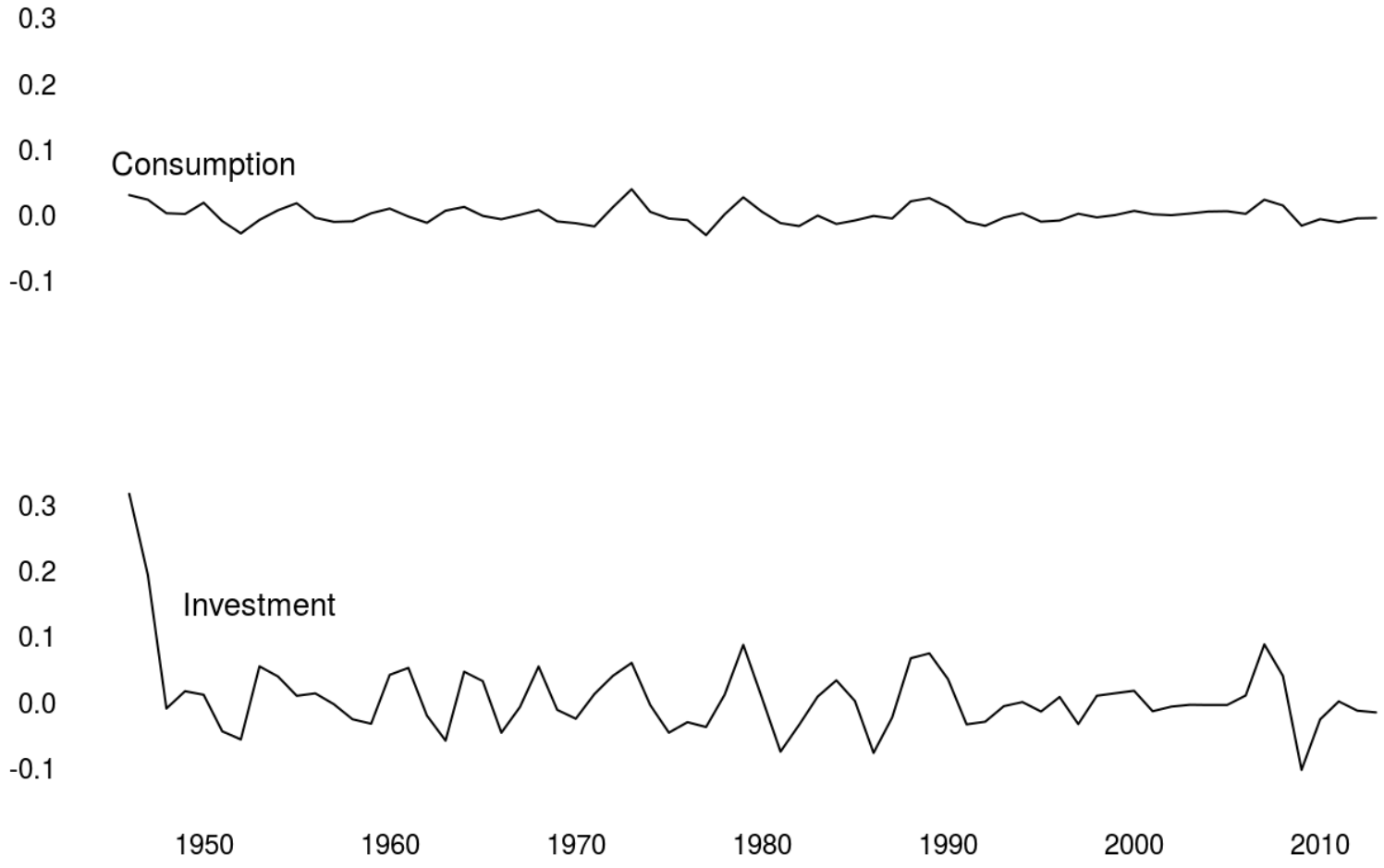
HP-filtered cycles: U.K



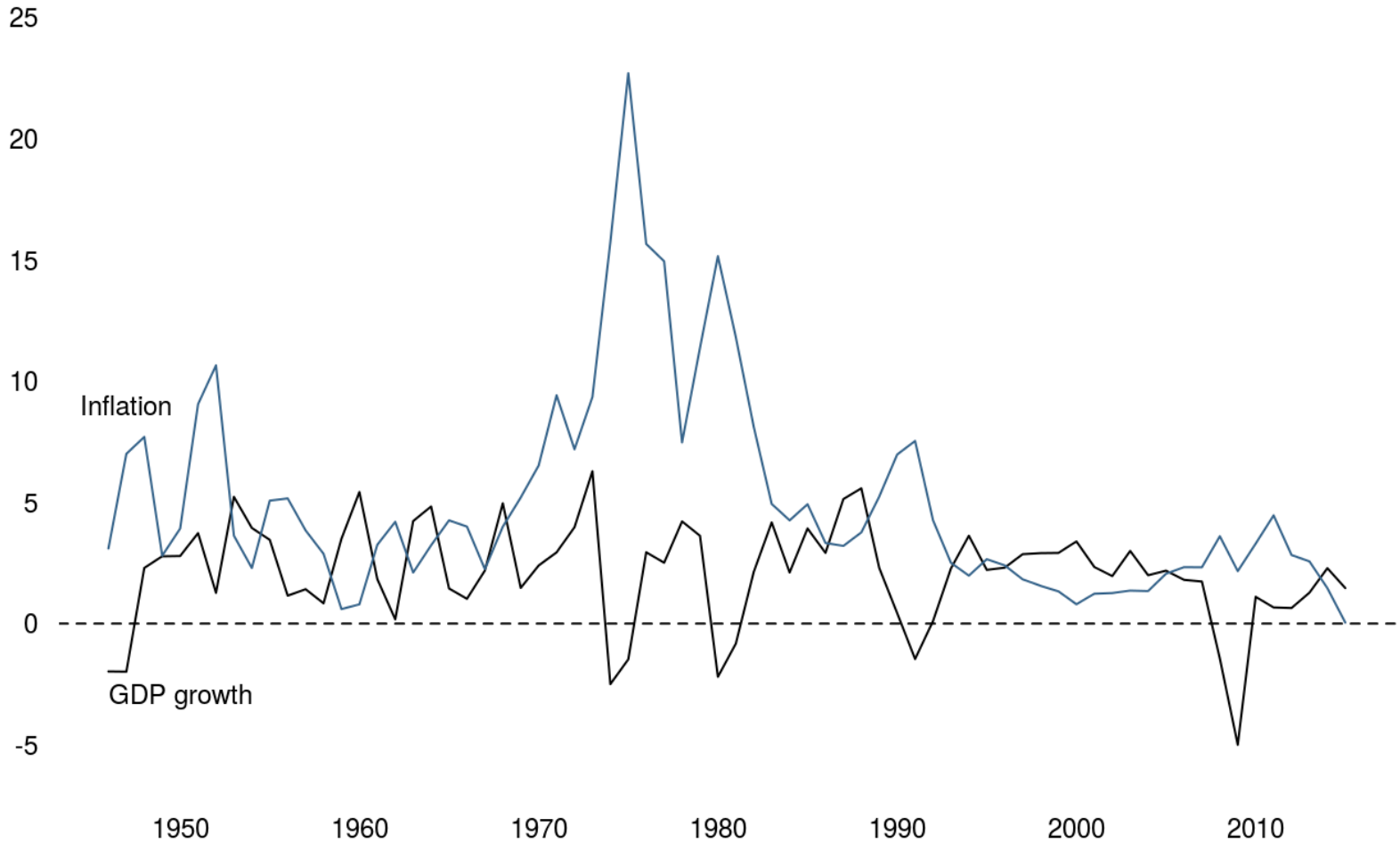
HP-filtered cycles: U.S.



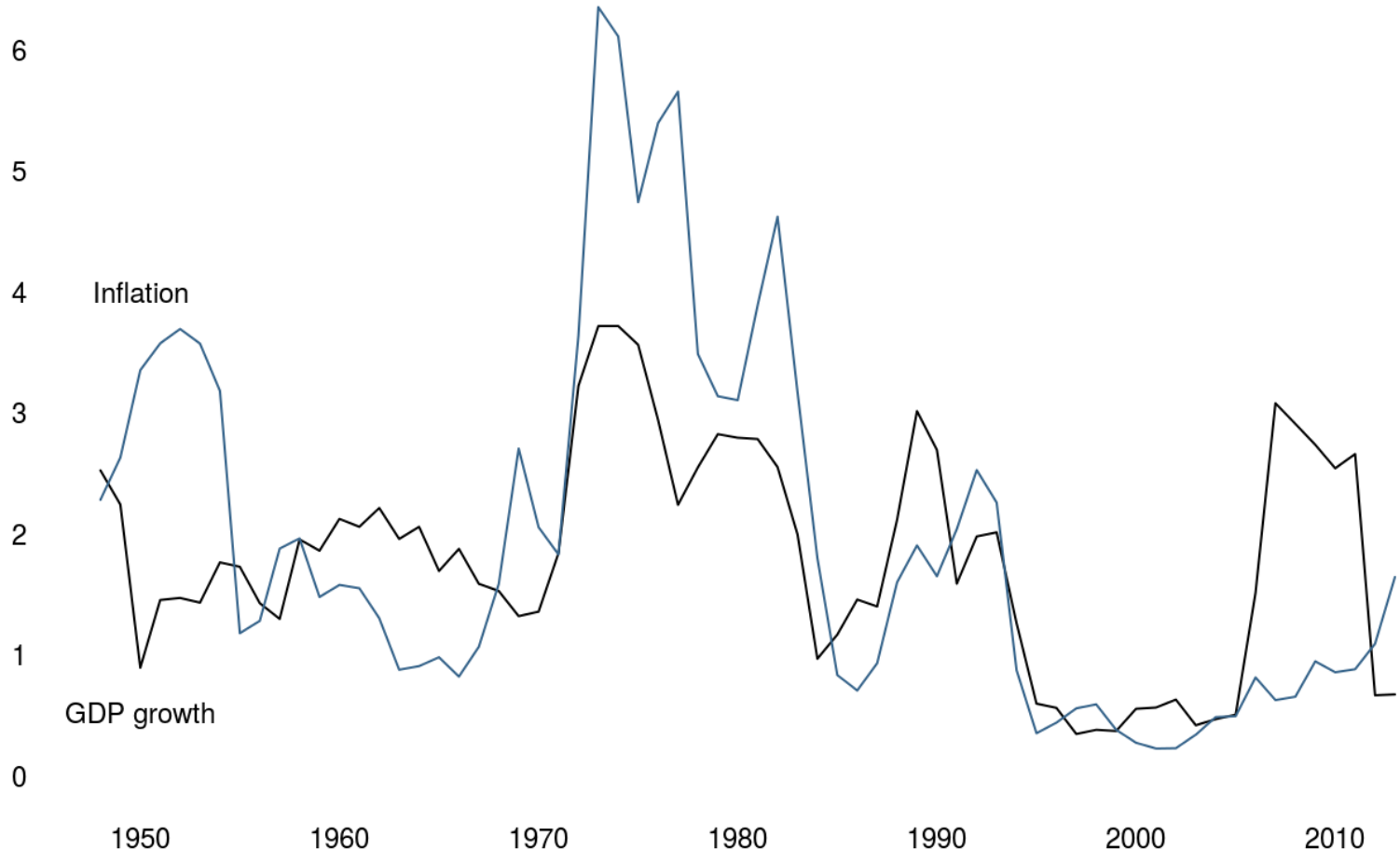
Cycles in consumption and investment



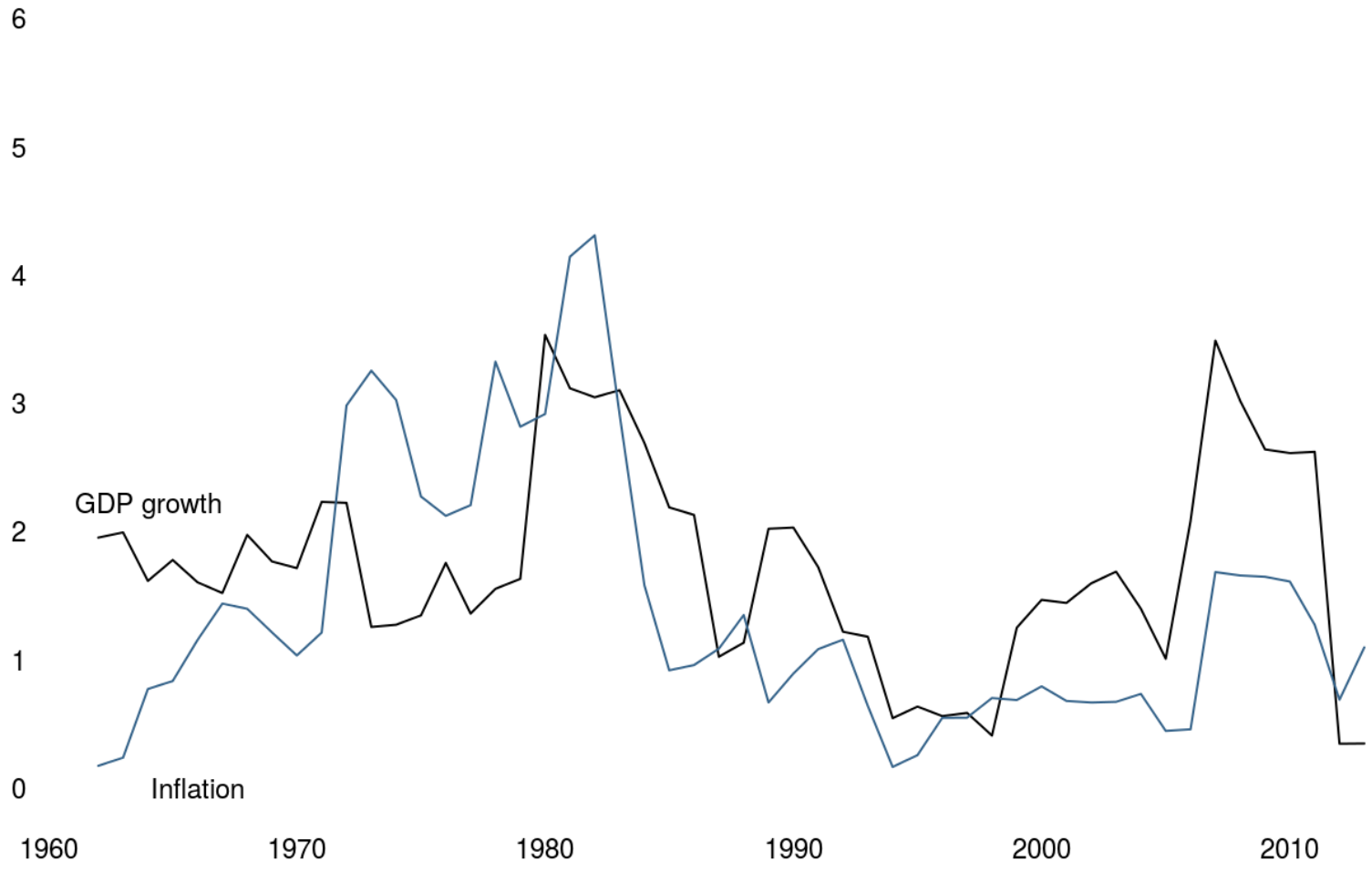
Cycles in growth and inflation



Volatility in economic growth and inflation: U.K. (standard deviation, 5-year moving average)

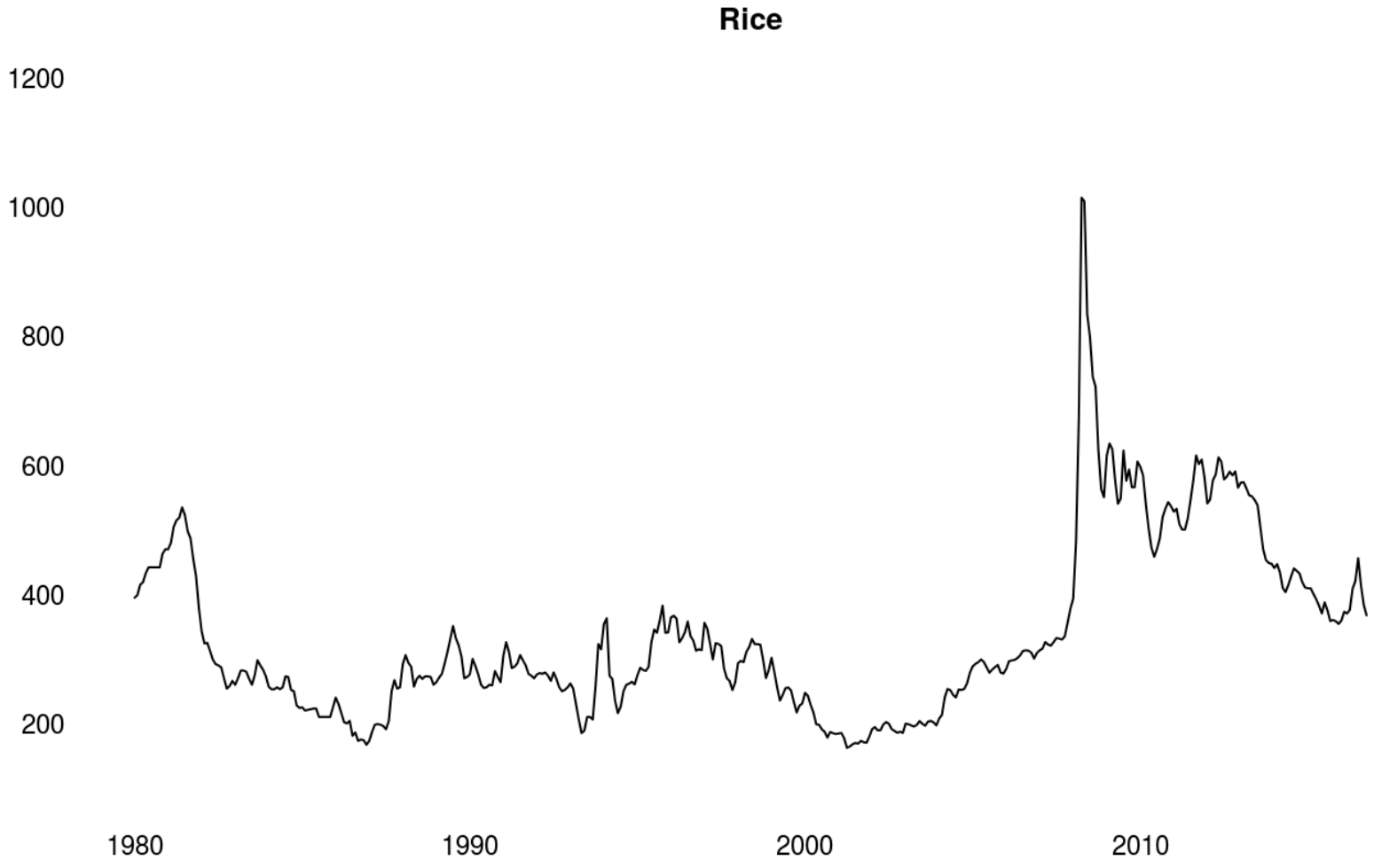


Volatility in economics growth and inflation: U.S. (standard deviation, 5-year moving average)



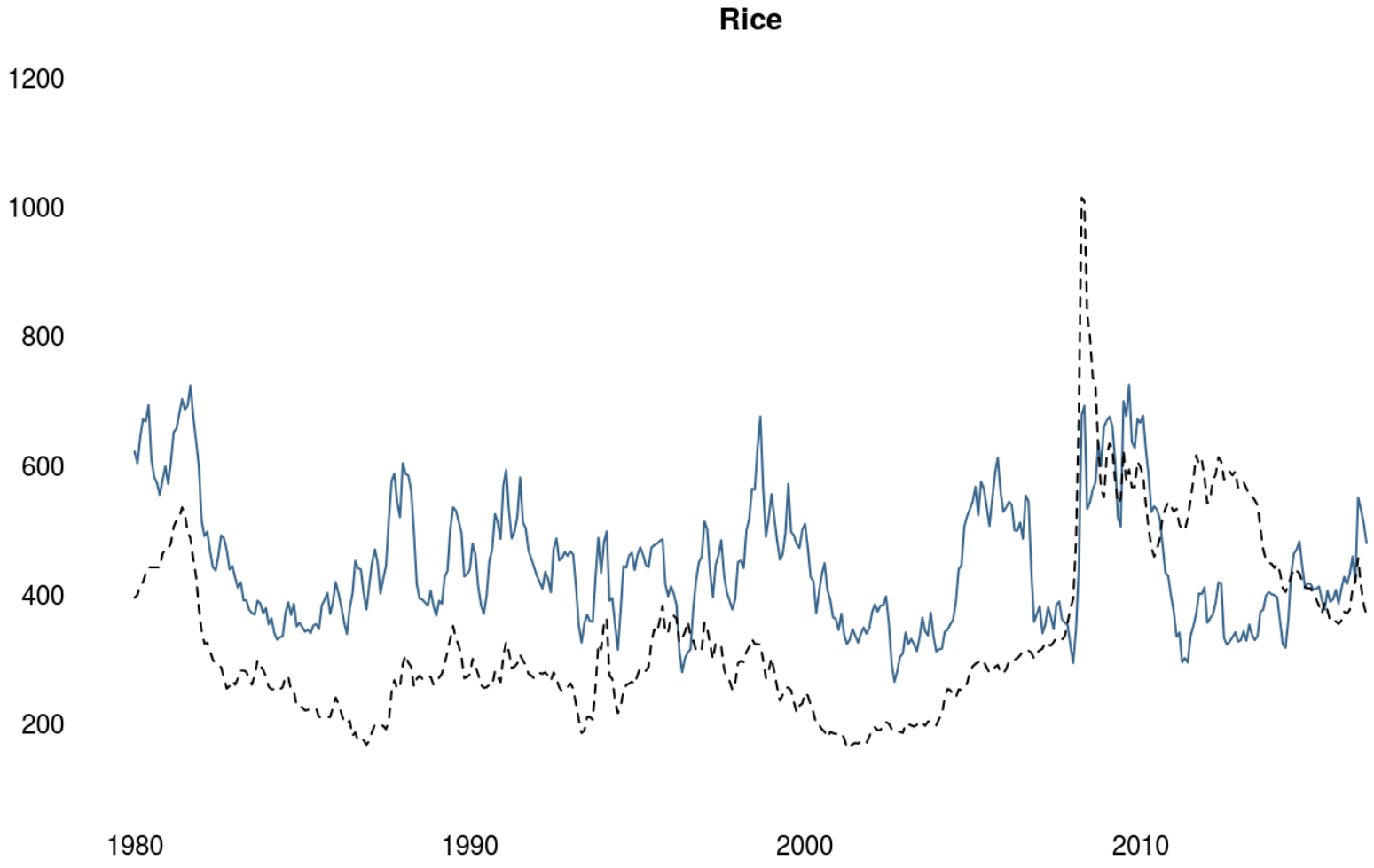
Nominal prices for rice

Data source: IMF



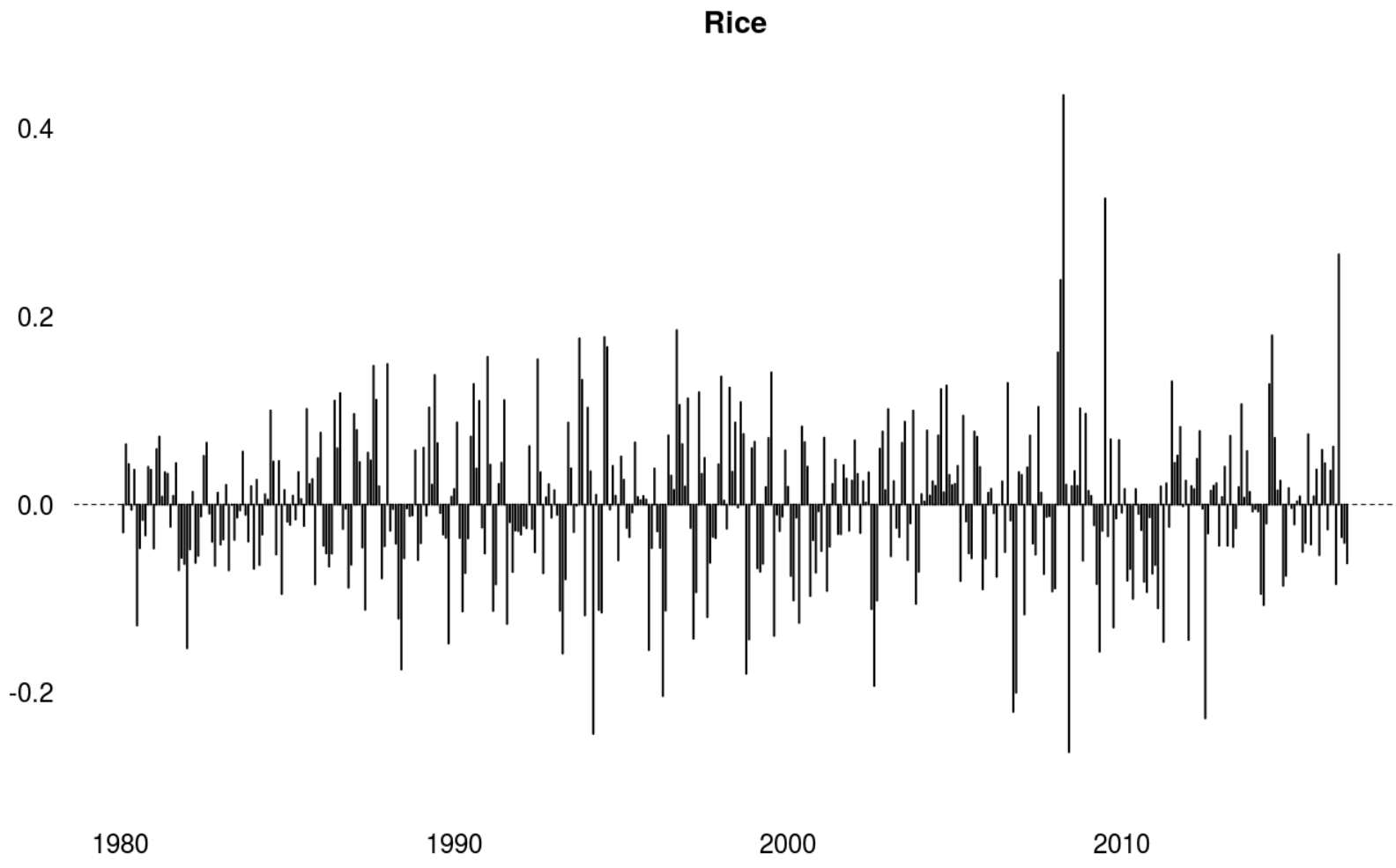
Real (in blue) and nominal prices (dashed, black) for rice

Data source: IMF, U.S. Buro for Labor Statistics



Volatility in international rice prices

Data source: IMF



Impulse Response Function based on $AR(4)$ model fitted to the rice prices

Shock is 1 at $Y = 1$