Description of R codes for Comparing Time Series with Annual Cycles

test.nested.cycle.univariate.R

generates synthetic data and calls diff.ar.cycle.

diff.ar.cycle.R

tests if two time series come from the same stochastic model, where the time series contains periodic and serially correlated components. The main relevant output is dev.table and AICm for the two models. There are other output variables which are used for checking purposes, but generally can be ignored. An example of the deviance table is given below:

timeseries2ar.cycle.R

creates y and X appropriate for ARX(p, H) (called by diff.ar.cycle.R).

diff.regression.nested.R

performs the nested testing procedure (called diff.ar.cycle.R).

aicm.R

computes AICm for the ARX(p, H) model (called diff.ar.cycle.R).