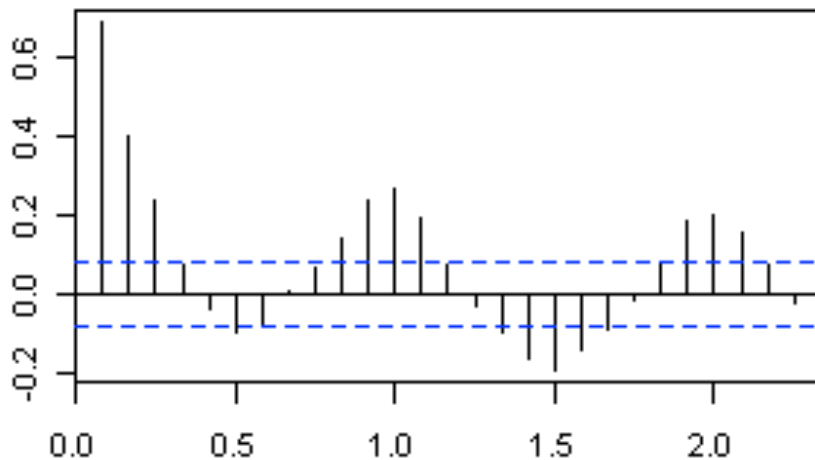


= Practical Stats

www.practicalstats.com



ACF
ARMA
GLS

are among the many
modern tools in software
for modeling time
series data

Time Series & Forecasting

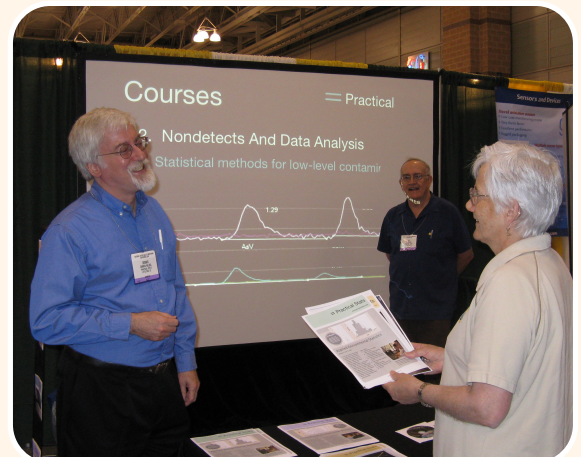
for frequently-collected (5-, 15- minute and continuous) data

Today, water-quality and other scientific data can be measured by automatic recorders or remotely by satellite only seconds apart from one another. Agencies have begun to store, present, and analyze these "continuous data". Data recorded this closely together usually violate the independence assumption of statistical procedures – "independence" implying that one observation provides no information on what value the next observation might be. The result is that statistical methods such as hypothesis tests and regression provide invalid results when used on data measured only minutes apart.

Time Series & Forecasting focuses on performing hypothesis tests and building regression models for data measured frequently in time.

Topics include:

- What is serial correlation?
- How to test for it?
- Effects of serial correlation on hypothesis tests.
- Building regression models for data with serial correlation.
- ARMA Time Series models
- Forecasting WQ variables – how good is my forecast?
- Bootstrap methods for time series



Practical Training

Our courses are taught across the United States. Some are 'open-enrollment' with registration on our website. Others are taught directly to agencies and companies.