

SPRING 2001
STATISTICS 614

Textbook: Environmental Statistics with S-PLUS
Steven P. Millard and Nagaraj K. Neerchal
Chapman Hall CRC

Reference: Gilbert(1987), Piegorsch & Bailer (1997)
Selected articles from recent issues of JOE and JABES

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Syllabus

Overview of Environmental Statistics	Chapter 1
Exploratory Data Analysis	Chapter 2
Univariate Probability & Stat Methods	Chapter 4,5,6 & 7
Sampling Designs	Chapter 2 & 8
Regression Methods	Chapter 9
Censored Data	Chapter 10
Analysis of Time Series Data	Chapter 11
Spatial Statistics	Chapter 12
Use of Splus-link to GIS	Chapter 12
Topics in Risk Assessment	Chapter 13
Sampling for Hot-spots	Gilbert
Trends, Dose-response models	Piegorsch
Proficiency in using S-PLUS	

Grading Scheme

Homework	Weekly	25%
Class projects		25%
Mid term	Journal readings	25%
Final Project	May	25%