NORTH INLET LTREB DATABASE

DATASET TITLE:	Annual productivity at Spartina alterniflora-dominated salt marsh plots in North Inlet, Georgetown, SC.		
INVESTIGATOR INFORMATION :	**Investigator 1**	**Investigator 2**	**Investigator 3**
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City	Columbia	Georgetown	
State	SC	SC	
Zip Code	29208	29442	
Country	USA	USA	
OTHERS:	Warren Hankinson		
DATA FILE INFORMATION:			
Data File Name	LTREB-productivity		
Beginning Date	01-May-1984		
End Date	31-Dec-2007		
Number of Data Records	114		
Other Files to Reference			
Availability Status	type 1		
Quality Control Information			
Maintenance Description	Collections occur every month. Database is updated once annually, usually in the winter. Study and data collection are ongoing as of Jan 2008.		
Log of Changes:			
RESEARCH LOCATION:	Site 1	Site 2	Site 3
Geographic Description	North Inlet, Georgetown, SC;		
Location Bounding Box			
West Bounding Coordinate	-79.2		
East Bounding Coordinate	-79.18		
North Bounding Coordinate	33.35		
South Bounding Coordinate	33.32		
OR if single point location			
Latitude			
Longitude			
Elevation			
TAXONOMIC COVERAGE:			
Organisms studied	Spartina alterniflora		

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KEYWORD INFORMATION

KEYWORDS:	estuary, salt marsh, Spartina alterniflora, aboveground biomass, annual productivity, Southeast United States
KeywordThesaurus	

ABSTRACT:

Annual productivity is determined from aboveground biomass data in a Spartina alterniflora-dominated salt marsh plots in North Inlet, Georgetown, SC. Aboveground biomass is determined non-destructively. There are five sites. Two sites are low marsh; three sites are high marsh. One site in the high marsh is fertilized with nitrogen and phosphorus.

METHODS:

Sampling Description:
Duplicate sampling quadrats (10cmx10cm, 10cmx15cm or 20cmx20cm) are permanently installed within triplicate m2 plots at each of five sites on the marsh platform in North Inlet, SC. Plants within each quadrat are tagged, and plant heights are measured monthly. The three plots at one of the sites are fertilized every other month with NH4NO3 and P2O5 for a final annual application rate of 26.7 mol N/m2/y and 12.3 mol P/m2/y.

Numerical Processing:
Plant measurements are entered into an ACCESS database, then transformed to biomass using allometric equations (Morris and Haskin, 1990. Ecology 71(6):2209-2217). Annual productivity is determined using the Smalley method and SAS (SAS System for Windows; release 8.02; SAS Institute, Inc; Cary, NC). Data are reported as the mean annual productivity and standard error of the 3 plots (n=6).

Sampling and/or Lab Protocols	
URL of online Protocol	
OR	
Protocol Document	

VARIABLE DESCRIPTIONS:

Variable Name	Variable Description	Units	Measurement Scale	Code Infomation	Number Type	DateTime Format	Missing Value Code	Missing Value Code Explanation
year	year		datetime			yyyy		
site	name of sampling station		nominal	GI=Goat Island | OL=Oyster Landing				
location	location of sampling station			HM=High Marsh | LM=Low Marsh				
treatment	treatment		nominal	NP=Fertilized | C=Control				
annual productivity	mean annual productivity (dry weight)	gramsPerMeterSquaredPerYear	ratio		real			
stderr	standard error of mean annual productivity (dry weight)	gramsPerMeterSquaredPerYear	ratio		real			
comments	Information pertaining to individual data points		nominal					