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# Welcome to the Walt Dineen Society

A forum for communicating about South Florida Ecosystems

#### Who is Walt Dineen?

J. "Walt" Dineen (1937-1990) was, for close to three decades, a highly respected biologist/ecologist in South Florida. He was Everglades Project Leader for the Florida Game and Fresh Water Fish Commission, and Director of Environmental Sciences at the South Florida Water Management District. Walt was one of the first to develop a broad regional perspective for the Everglades ecosystem, and to use that understanding to influence and improve management practices. Perhaps his most valuable contribution to the Everglades was his strong, personal demonstration of the importance of having well-informed scientists participate in the management and policy debates. For his early role in this process, we honor his name.

#### Mission

The Walt Dineen Society is an informal, non-affiliated forum, dedicated to the task of substantially improving the communication of technical information on the ecosystems of South Florida, among the natural, physical, and social scientists and the management and policy leaders who work in this region. The Society considers that frequent exchanges of research results, and multi-disciplinary discussions designed to integrate new information with the old, are essential steps leading to improved understandings of the natural components and ecological processes of the South Florida systems. It is these intellectual processes that will assure that our understanding of both the natural and managed systems continue to mature (i.e., "the whole [of our understanding] is greater than the sum of its parts"). By supporting a communications process that is organized from the perspective of systems, in contrast to an issues or project-driven perspective, we believe that science will be in the strongest position to make substantial contributions to the important management and policy questions raised by the restoration programs.

#### Walt Dineen Society Conferences

To achieve these goals, the Society sponsors conferences pertaining to the ecosystems of South Florida. The main priority of these conference is to encourage everyone who is conducting studies in the natural and physical sciences in South Florida to report on their on-going and completed work. These conferences differ from other technical conferences in the region in that:

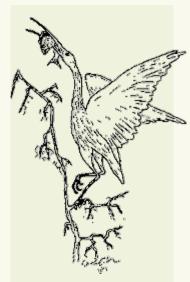
- 1 they are systems-focused;
- 2 we encourage participation by all researchers and students of the natural systems of South Florida; and
- 3 the conference is organized to maximize the opportunities for the integration of new information from a broad array of disciplines.

For more information about upcoming or current conferences, please refer to our <u>Conference Page</u>. Program information and abstracts from the first Walt Dineen Conference are available at the <u>Conference Archive</u>.

#### For further Information

To learn more about the Walt Dineen Society or Conference, contact: John Ogden
South Florida Water Management District
3301 Gun Club Rd.
West Palm Beach, FL 33416
jogden@sfwmd.gov





### FIRST CONFERENCE

May 22-24, 1997

1997 Conference Program

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For More Information

Please direct any questions concerning the Walt Dineen Society or Conference to: Dan Childers [Phone: 305/ 348-3101 FAX: 305/ 348-4096]

For general information about the Society, please visit the <u>Dineen Walt Dineen Home Page</u>.

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# Walt Dineen Society Annual Conference '97

Guide to Sessions

Thursday, May 22, 1997

13:00 - 14:30 Session I: Upland Plants

15:00 - 16:15 <u>Session II: Environmental Management</u>

17:00 - 19:30 <u>Session III: Posters</u>

Friday, May 23, 1997

9:00 - 10:15 <u>Session IV: Wetlands</u>

10:45 - 11:45 Session IV: Wetlands - cont.

12:45 - 14:15 Session V: Bird Studies

15:00 - 16:30 Session VI: Bird & Other Animal Studies

Conferences Saturday, May 24, 1997

9:00 - 10:15 <u>Session VII: Marine Ecology</u>

10:45 -12:00 <u>Session VII: Marine Ecology - cont.</u>

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Complete Conference Program

[Adobe PDF; 550K]

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#### Daily Schedule of Sessions - Thursday, May 22

#### **SESSION VII: MARINE ECOLOGY**

Z V	TIME	AUTHOR(S)	ABSTRACT	TITLE
气	9:00- 9:15	Maloney and Bigger	<u>97701</u>	Analysis of sponge mortality in Florida Bay
<u>[</u> _	9:15- 9:30	Byrne and Meeder	97702	Ground water delivery to Biscayne Bay
Dineen Society	9:30 - 9:45	Halley et al.	<u>97703</u>	Seagrass facies and phases recorded in the sediments of Florida Bay
<u>i</u>	9:45 - 10:00	Oehm et al.	97704	The effects of nutrient enrichment on soil microbial processes in mangroves
thors	10:00 - 10:15	Ross et al.	<u>97705</u>	The southeast saline Everglades revisited: vegetation and soil changes during the last century
<u>Home</u>	10:45 - 11:00	Smith et al.	<u>97706</u>	Patterns of growth and recruitment in mangrove forests following catastrophic disturbance in relation to soil nutrients
	11:00 - 11:15	Davis and Childers	<u>97707</u>	Salinity and organic matter transformations as controls on wetland-water column interactions in a south Florida mangrove
	11:15 - 11:30	Willsie et al.	<u>97708</u>	Seagrass monitoring in the Florida keys National Marine Sanctuary
	11:30 - 11:45	Telesnicki et al.	<u>97709</u>	Water use in mangrove communities of Biscayne National Park, FL
	11:45 - 12:00	Rose and Fourqurean	<u>97710</u>	Spatiotemporal patterns of the seagrass Thalassia testudinm in the Florida Keys National Marine Sanctuary

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Session VII: Marine Ecology Abstract #: 97701

#### ANALYSIS OF SPONGE MORTALITY IN FLORIDA BAY

Barbara A. Maloney and Charles H. Bigger Dept. of Biology, Florida International University, Miami, FL

#### **ABSTRACT**

Between January 1991 and 1994 there were a series of algal bloom incidents in Florida Bay that occurred at the same time as mass mortalities or disappearances of sponges, seagrass beds, juvenile fish and shellfish. Both the algal bloom and perhaps suspended fine sediments were blamed for the sponge mortalities. The major hypotheses advanced for the sponge death were physical clogging of the filter feeding mechanism by the putative bloom cynobacteria and its mucus or toxins produced by the cynobacteria. (Grantham, 1993). In October 1993, four species of sponges (Aplysina califormis, Ircinia campano, Spheciospongia vesparium, Appotos sp.) were collected from a normal area east of the Marine Lab in Long Key, Florida and transplanted into the mortality area where a single species, Cirayhydra alloclada, was still growing. Accordingly, the sponges in this study were in three areas: 1) offshore, in the bloom area 2) inshore in a control area at the Marine Lab and 3) in a flow-thru sea water tank at the Marine Lab. Tissue was sampled daily over a five day period and fixed in Parducz's fixative or gluteraldehyde with osmium tetroxide as a postfixative and prepared for light, transmission electron and scanning electron microscopy. No physical clogging, by the dominant bloom species of cynobacteria, Synechoccus elongatus or calcium carbonate particulates was found.

A special thanks to Florida Marine Research Institute, South Florida Regional Laboratory for assistance in collecting samples.

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Session VII: Marine Ecology Abstract #: 97702



Michael Byrne and John Meeder U.S. Geological Survey, Miami, FL 33156

#### **ABSTRACT**

Salinity and specific nutrient concentrations exhibit an offshore profile in the upper Biscayne Bay aquifer suggestive of groundwater discharge into the nearshore bay. By 400 M the upper groundwater salinity is usually near normal marine and the benthic communities are dominated by <a href="https://doi.org/10.1036/j.com/html">Thallasia testudinum</a> from that point further offshore. Initial flow measurements indicate groundwater discharge of nutrient rich waters in the inshore areas which are dominated by <a href="https://doi.org/10.1036/j.com/html">Halodule wrightii</a> and <a href="https://doi.org/10.1036/j.com/html">Penicillus -Batophora</a> communities and filamentous algae.

The objectives of this study are: 1) to quantify the groundwater nutrient load to nearshore Biscayne Bay, 2) identify the source of nutrients and 3) document their effects on the benthic communities. This report focuses on the groundwater aspects of this National Park and SFWMD funded research.

Fifteen pairs of wells were drilled along five transects perpendicular to The Biscayne Bay shore line from a distance of 50 to 800 M off shore. Transects are located south of Dinner Key and north of Mowry Canal. The wells at each station consist of an upper well above a semi-impermeable layer (1-3 M) and a lower well (5-7 M). Wells and surface water were sampled in June, September, 1996 and January 1997. Samples were anayzed for salinity (in the field) and the following nutrients; NO2, NO3, NH4, TP, chlorophyll, TOC, TN, SRP, and APA. Upper aquifer concentration to TP and ammonia (10 to 20 times surface water concentrations) levels are high.

Biscayne Bay National Park is conducting a study to return sheet flow to the bay. This research will establish the impact groundwater has prior to the return of sheet flow.

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Session VII: Marine Ecology Abstract #: 97703

### SEAGRASS FACIES AND PHASES RECORDED IN THE SEDIMENTS OF FLORIDA BAY

Halley, R.B., Holmes, C.W., Prager, E.J., and Shinn, E.A US Geological Survey, Coastal Center, St. Petersburg, Fl 33701

#### **ABSTRACT**

Widespread seagrass mortality in Florida Bay during the past decade is unique to human memory and has raised concerns about ecosystem health. However, the sedimentary record of Florida Bay indicates great variation of seagrass cover in the more distant past. In east-central Florida Bay, sediments clearly record the presence and absence of sea grass in sediment facies deposited during the last two centuries. Sea grass and grass-free (mud) facies are defined by the texture, composition, and structure of sediment. Seagrass facies have a chaotic structure, a significant coarse fraction, and contain fossil species of carbonate-producing epibionts. In contrast, mud facies (grass-free) are characterized by sediments that have a laminated structure, less shelly fauna, and are typically finer grained than grassy areas. Seagrass and mud facies accumulate in mudbanks as deposits of locally allochthonous (transported) and autochthonous (produced in situ) carbonate sediment originating in the Bay. Mudbanks slowly migrate in response to wave-induced suspension and traction sediment transport, eroding on exposed margins and accumulating on protected sides. Mudbanks vary greatly in the amount of seagrass cover but for the past 30 to 50 years have been dominated by seagrass facies.

Several researchers have applied facies analyses to mudbank cores in order to document changes in seagrass cover in the past. Newly applied dating techniques and studies of recent erosion and accumulation indicate that in the early 1800s seagrass cover was much like that of today. However, during the mid-1800s, the influence of sea grass greatly declined, and a phase of physical sedimentation became prevalent. This physical phase dominated until the 1920s and 1930s when seagrass facies returned to the area. The phase change from physical to seagrass-dominated sedimentation during the early part of this century may be associated with decreased circulation and freshwater inflow during that time. Although the causes of seagrass loss in the mid 1800s are subject to speculation, it is clear from the sedimentary record that areally extensive changes in seagrass cover have occurred in the past.

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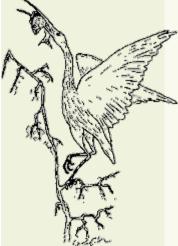






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Session VII: Marine Ecology Abstract #: 97704



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### THE EFFECTS OF NUTRIENT ENRICHMENT ON SOIL MICROBIAL PROCESSES IN MANGROVES

N.J.Oehm, D.L. Childers, S.E Davis FIU, Miami, FL 33199 J. Day, B.Perez, E.Reyes, and M.Sutula LSU, Baton Rouge, LA 70803 D. Rudnick and F. Sklar SFWMD, West Palm Beach, FL 33170

#### **ABSTRACT**

Mangrove wetlands are among the most productive ecosystems in the world and have been the subject of nutrient cycling studies for their commercial and ecological importance. This study takes place in the mangroves found in the Taylor Slough area of Everglades National Park, USA. The Everglades is a highly oligotrophic, carbonate-based system and recent work has demonstrated a phosphorus limitation in both the southeastern Everglades mangroves and the freshwater microbial community. We examine the effects of nutrient enrichment on carbon fluxes in the mangrove soils found along the salinity gradient of Taylor Slough. Triplicate soil cores are collected quarterly from creekside and inland sites at each of three locations and slurried for nutrient enrichment incubations in a nitrogen-phosphorus factorial treatment. All fluxes are calculated using carbon dioxide, methane and sulfide production and are normalized for differences in soil and water chemistry. We present preliminary results from the first year of this study and discuss the differences in carbon flux between creekside and inland sites.

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Session VII: Marine Ecology Abstract #: 97705



M. S. Ross, J. F. Meeder, G. Telesnicki, P. L. Ruiz, and J. P. Sah Southeast Environmental Research Program, Florida International University, Miami, FL 33199

#### **ABSTRACT**

Holocene sea level rise has caused salt water encroachment into coastal areas for at least 6000 years, but in the last century the rate of encroachment has been altered by anthropogenic activities affecting the availability of upstream water resources. Marsh vegetation and soils, and adjacent tree island vegetation were examined in 55 sites SE of the Atlantic Coastal Ridge between Turkey Point and Taylor Slough in 1994-95. Both marsh and tree island vegetation exhibited well-defined compositional and structural gradients with distance to the coast. Since an earlier study by Egler (1952), the boundary of the mixed graminoidmangrove and sawgrass communities shifted inland by as much as 3.3 km, and a low-productivity band appearing white on B&W and CIR photos moved interiorward by an average of 1.5 km. The shift in this "white zone" was less pronounced in areas receiving fresh water overflow through gaps in the C-111 Canal than in adjacent areas cut off from upstream water sources by roads or levees. Sub-basinal differences in response to sea level rise were also documented from changes in the vertical and horizontal distribution of mollusk assemblages, which include many good indicators of salinity. Subbasinal time lines for the transition from fresh to brackish-water assemblages were developed based on soil accretion rates from Pb210 dating methods. The rates of salt water encroachment in Joe Bay, Highway Creek, and Turkey Point subasins were several times the rate indicated by sea level rise alone, while Taylor Slough exhibited less encroachment than predicted by sea level rise. The timing of the acceleration of saltwater encroachment, when present, also appeared to differ among subbasins.



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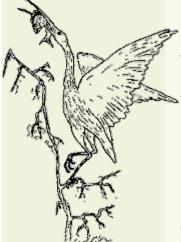




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Session VII: Marine Ecology Abstract #: 97706



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# PATTERNS OF GROWTH AND RECRUITMENT IN MANGROVE FORESTS FOLLOWING CATASTROPHIC DISTURBANCE IN RELATION TO SOIL NUTRIENTS

Smith III, T.J., Wiebe, W.J. & Merickel, J.A.
Biological Resources Division, U.S. Geological Survey, Miami, FL and
University of Georgia, Athens, GA.

#### ABSTRACT

Hurricane Andrew passed over the southwest coast of Florida in August 1992 causing a gradient of disturbance in mangrove forests from minor to catastrophic. We established a series of permanent plots from Rookery Bay in the north to Flamingo in the south to measure initial patterns of mortality, continuing storm related mortality, and the growth of survivors and new recruits. Soil porewater nutrients (nitrogen and phosphorus), sulphide and salinity were measured over time at a subset of plots. Initial mortality was both size and species dependent. Larger individuals of all species were killed and Rhizophora suffered higher initial mortality than either Avicennia or Laguncularia. Continuing mortality has also been concentrated in larger size classes and has been greater for Avicennia and Laguncularia. Recruitment at most, but not all, plots has been dominated by Laguncularia. Rhizophora dominated recruitment at a single plot and Avicennia has recruited in very low numbers in all plots. Growth, measured as basal area increase, has been greatest for all species in plots subjected to intermediate levels of disturbance and least in plots suffering either catastrophic disturbance or little disturbance at all. Soil nutrient pools appear to have played a secondary role. Plots with higher levels of phosphorus had slightly higher growth rates and plots with high sulphide levels had decreased rates of growth. After five years, areas of catastrophic disturbance are not close to approaching prestorm levels of forest biomass.

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Session VII: Marine Ecology Abstract #: 97707



Stephen Davis and Daniel Childers

Department of Biological Sciences, Florida International University,
University Park, Miami, FL 33199

#### **ABSTRACT**

In August and November 1996, we quantified wetland-water column fluxes and processes in dwarf and fringe mangroves of Everglades National Park. We hypothesized that key organic matter transformations are maximal at 0-5 ppt, and that movement of this zone controls nutrient availability and flux. We used dwarf mangrove enclosures, in-channel mangrove flumes, prop root enclosures, and serial filtration experiments to [hierarchically] test our hypothesis. Island enclosures showed significant uptake of NH<sub>4</sub> (15.3 - 31.2  $\mu$ M/m<sup>2</sup>/hr) and

significant release of NN (46.4  $\mu$ M/m²/hr) and TP (4.4  $\mu$ M/m²/hr). SRP fluxes varied. Flume data showed a relationship between salinity and nutrient dynamics, particularly with P exchange. Red mangrove prop roots tended to take up NH<sub>4</sub> and SRP while releasing NN and TP; NH<sub>4</sub> and NN fluxes were always greater when prop roots contained epibiont communities. We performed serial filtrations on water incubated for 2 days in the root bag enclosures; this suggested a conversion of organic P to SRP in the presence of red mangrove prop roots (with and without epibionts). Data from January 1997, which also included a time-series serial filtration experiment where fresh and saline waters were mixed to different salinites, will allow us to more fully address our hypothesis.



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Session VII: Marine Ecology Abstract #: 97708



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### SEAGRASS MONITORING IN THE FLORIDA KEYS NATIONAL MARINE SANCTUARY

Willsie, A.A.<sup>1</sup>, Fourgurean, J.W.<sup>1</sup>, Durako, M.D.<sup>2</sup> and Zieman, J.C.<sup>3</sup>

- <sup>1</sup> Southeast Environmental Research Program and Department of Biology, Florida International University, Miami, Fl, 33199;
- <sup>2</sup> Florida Marine Research Institute, Florida Department of Environmental Protection, 100 8th Ave. SE, St. Petersburg, Fl 33701;
- <sup>3</sup> Department of Environmental Sciences, University of Virginia, Charlottesville, VA 22903.

#### **ABSTRACT**

The purpose of seagrass monitoring in the Florida Keys National Marine Sanctuary (FKNMS) is to measure the status and trends of seagrass communities to evaluate progress toward protecting and restoring the marine resources of the Sanctuary. Specific objectives are: 1) To provide data needed to make unbiased, statistically rigorous statements about the status and temporal trends of seagrass communities in the Sanctuary as a whole and within defined strata; 2) To define reference conditions in order to develop resource-based water quality standards; and 3) To provide a framework for testing hypothesized pollutant fate/effect relationships through process-oriented research and monitoring. To reach these goals, four kinds of data are being collected in seagrass beds in the FKNMS: 1) Distribution and abundance of seagrasses using rapid assessment Braun-Blanquet surveys; 2) Demographics of the seagrass communities using leaf-scar counting and population demographics techniques; 3) Seagrass productivity of the dominant species of seagrass (Thalassia testudinum) using the leaf-mark and harvest method; and 4) Seagrass nutrient availability using tissue concentration assays. We assess both inter-annual and intra-annual trends in seagrass communities. The mix of site types is intended to monitor trends through quarterly sampling at a few permanent locations and to annually characterize the broader seagrass population through less intensive, one-time sampling at more locations. Clear spatial and seasonal patterns in productivity, demographics, distribution, abundance, and elemental content are present in the data.

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Session VII: Marine Ecology Abstract #: 97709



G.J. Telesnicki, M.S. Ross, S. Oberbauer, J.F. Meeder, and P.L. Ruiz Southeast Environmental Research Program, Florida International University, Miami, Fl 33199

#### **ABSTRACT**

Water use for <u>Rhizophora mangle</u> & <u>Laguncularia racemosa</u> were estimated for scrub and paralic mangrove communities along a coastal gradient in Biscayne National Park, FL. Flow measurements were based on a Stem Heat Balance model. In this method, radial and vertical heat conduction are partitioned and separated from connvective sap transport by measuring differential temperature over short sections of live stem trunk. Rainfall, barometric pressure, relative humidity, solar radiation, temperature, and wind speed data were collected to assess the relationships between climatic variables and stem flow. Predawn moisture stress and stomatal conductance were also measured on the same or adjacent trees through a diurnal cycle. Sap flow and stomatal conductance showed typical diurnal flow patterns. Individual sap transport rates were expressed on a leaf area basis, which allowed us to scale up observed species and site differences among individuals to the community and ecosystem levels.



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Session VII: Marine Ecology Abstract #: 97710

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SPATIOTEMPORAL PATTERNS OF THE SEAGRASS THALASSIA TESTUDINUM IN THE FLORIDA KEYS NATIONAL MARINE SANCTUARY Rose, C.D. and Fourqurean, J.W.

Department of Biology and the Southeast Environmental Research Program, Florida International University, University Park, Miami, Florida, 33199

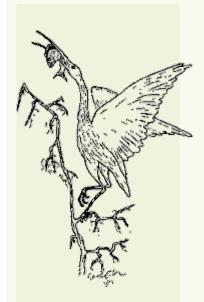
#### **ABSTRACT**

In this paper we present data from an on-going seagrass monitoring program in the Florida Keys National Marine Sanctuary (FKNMS) focusing on patterns and variability of blade productivity of the seagrass Thalassia testudinum (turtle grass). Data have been collected 4 times from December 1995 through December 1996 from 26 permanently established stations in the FKNMS. Sites were surveyed using Braun-Blanquet transects, and blade productivity of T. testudinum was measured using a modification of Zieman's (1974) leaf-marking technique in 6 replicate quadrats at each site. Density, standing crop, and blade productivity, of T. testudinum is extremely variable and peaks during the summer. Productivity ranged between 0.18 - 8.31 mg SS-1 d-1 and increased by ~390 % from December 1995 to August 1996, which corresponded with increases in density (~ 40 %), abundance (~ 50 %), and standing crop (~ 87 %). Due to the large number of variables (22) and significant correlations within the data set, Principal Components Analysis was utilized to reduce the analysis to 6 independent principal components that described ~ 81 % of the total variation in the data. Temporal and spatial analysis of these components were used to describe large-scale or regional patterns of seagrass communities in the FKNMS, including the effects of seasonality, water depth, nutrient availability, seagrass density, and macrophyte species composition.

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