

**Summer Accomplishments
2004**

**J. Alvord
Varela High School
Biology Teacher**

Topics	Description	Relationship to Curriculum
Programs Learned		
ArcView	Created and manipulated graphs using ArcView program	Can teach students the basics of the program & also have a better understanding of the data
	Created step by step directions for Arc view software when creating maps from an existing data set	Can teach students the basics of the program & also have a better understanding of the data
EndNote	Developed a working comprehensive file of the scientific articles on hand in the Microbial Ecology Lab at FIU	Some of the articles will be used, in whole or part, for reading assignments in class
Microsoft Word	Created maps in table format	Information adaptation for curriculum
Equipment		
YSI	Knowledge of calibration, deployment and data retrieval of YSI's	Science laboratory curriculum development
Reports		
	Helped create graphs for phytoplankton report	Knowledge of current research that can be conveyed to students
	Assisted in preparation of scientific report	Knowledge of current research that can be conveyed to students
Presentations Attended		
	Thesis defense of graduate work with population dynamics of Florida Box Turtle	Knowledge of current research that can be conveyed to students
	Proposal defense seminar of graduate work on Everglades suspended soil dynamics	Knowledge of current research that can be conveyed to students
	Proposal defense seminar of graduate work on below ground biomass and nutrient dynamics in the freshwater Everglades	Knowledge of current research that can be conveyed to students
Student to Teacher to Scientist Interactions		
	Oversaw 2 high school students who were working in the lab setting to gain science experience & complete their community service hours with Florida Coastal Everglades Long Term Ecological Research program	gave ideas of questions that students might have & other ways to implement "real" science into the classroom
	Researched children's literature for interpretation to ecology education Florida Coastal Everglades Long Term Ecological Research education outreach	Knowledge of early years ecology literature
	Reviewed schoolyard website for teacher to scientist interpretation of Florida Coastal Everglades Long Term Ecological Research	Familiarity with the website we will refer to in class

All activities and training was administered and supervised by Dr. S. K. Dailey, Coastal and Wetland Ecologist
Florida Coastal Everglades Long Term Research Education and Outreach Program Coordinator

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Scientific Research		
	Participated in field research to Florida Bay for water quality monitoring- visited 6 sites of Florida Coastal Everglades Long Term Ecological Research	Hands on experience to relate to students about the research
	Researched and located pictures and animations for use on Florida Coastal Everglades Long Term Ecological Research education and outreach web site	Can use for other projects
	Developed itinerary for research trip to Florida Coastal Everglades Long Term Ecological Research sites	Knowledge of current research that can be conveyed to students
	Created a list of labs for biology curriculum based on Florida Coastal Everglades Long Term Ecological Research education and outreach program activities	Development of science curriculum
	Entered and validated data for microbial ecology research and Florida Coastal Everglades Long Term Ecological Research	Knowledge of current research that can be conveyed to students
	Created a schedule of Florida Coastal Everglades Long Term Ecological Research information that can be infused into the biology curriculum	Development of field trips
	Learned microbial techniques including production and enumeration	Knowledge of current research that can be conveyed to students
	Recorded laboratory surveys for radioactive wipes	Understanding of radioactivity and the importance of laboratory safety

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