

MEMORANDUM

Agenda Item No. 8(L)(1)

TO: Honorable Chairman Anthony Rodriguez
and Members, Board of County Commissioners

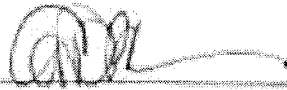
DATE: June 26, 2025

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Resolution appointing Dr. Jed R.
Redwine to the Miami-Dade
County Biscayne Bay Watershed
Management Advisory Board for
a four-year term

Resolution No. R-604-25

The accompanying resolution was prepared by the Regulatory and Economic Resources Department and placed on the agenda at the request of Prime Sponsor Commissioner Micky Steinberg.



Geri Bonzon-Keenan
County Attorney

GBK/ks

MDC001

Memorandum



Date: June 26, 2025

To: Honorable Chairman Anthony Rodriguez
and Members, Board of County Commissioners

From: Daniella Levine Cava *Daniella Levine Cava*
Mayor

Subject: Appointment to the Biscayne Bay Watershed Management Advisory Board of
Dr. Jed R. Redwine

Recommendation

It is recommended that the Board of County Commissioners appoint Dr. Jed R. Redwine, to the Biscayne Bay Watershed Management Advisory Board ("Advisory Board") as the board member representing the Florida International University Institute of Environment and filling the vacancy created by the resignation of Dr. Todd Crawl.

Scope

The recommendations and actions of the Biscayne Bay Watershed Management Advisory Board have countywide impact.

Delegation of Authority

The proposed resolution does not delegate authority to the County Mayor or County Mayor's designee.

Fiscal Impact/Funding Source

There is no fiscal impact associated with appointing Dr. Jed R. Redwine to the Advisory Board. The primary cost of the Advisory Board is staff time by the County's Office of Environmental Risk and Resilience and technical and professional staff throughout County Departments, who also provide necessary support.

Track Record/Monitor

The Advisory Board is staffed by the Office of Environmental Risk and Resilience. Technical and professional staff from the Department of Regulatory and Economic Resources, Division of Environmental Resources and Management (RER-DERM), and Water and Sewer Department (WASD), provide technical information regarding projects aimed at reducing pollution and nutrients in Biscayne Bay on a regular basis.

Background

The Miami-Dade County Biscayne Bay Watershed Management Advisory Board was created by the Board of County Commissioners, through Ordinance No. 21-72, as recommended by the Biscayne Bay Task Force. The Advisory Board was created by Article CLXIV of Chapter 2, Sections 2-2420 to 2-2426 of the Code of Miami-Dade County as a permanent board established to advise the Board of County Commissioners and the County Mayor on issues related to Biscayne Bay, including, but not limited to, (1) the long-term management of Biscayne Bay, (2) health of the marine community, (3) run-off and other impacts to water quality, (4) marine debris, (5) education and outreach, (6) economic development and vitality

Honorable Chairman Anthony Rodriguez
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related to Biscayne Bay, and (7) how conditions in Biscayne Bay may affect residents and property owners. These recommendations to the Board of County Commissioners will be used to update Chapter 24 of the Miami-Dade County Code to incorporate the findings of the Biscayne Bay Watershed Plan and prioritize projects to improve the water quality of Biscayne Bay. In addition, the advisory board provides a local perspective on Biscayne Bay problems, issues, and solutions.

Florida International University (FIU) Institute of Environment

The Florida International University Institute of Environment has recommended Dr. Jed R. Redwine for appointment. Correspondence from FIU Institute of Environment and the resume of the nominee are included in Attachment A.



Roy Coley
Chief Utilities and Regulatory Services Officer



Dear Ms. Parra,

Florida International University is happy to nominate Dr. Jed Redwine Ph.D Ecology as our representative to the Biscayne Bay Watershed Management Advisory Board. Jed has been involved in research in the Everglades ecosystem since 1994, working with Universities (FIU and LSU), National Audubon, South Florida Water Management District, US Army Corps of Engineers, Everglades National Park, and the Seminole Tribe of Florida. While Jed's science focus has centered on plant communities, he has significant experience with Water Quality monitoring and balancing the challenges of watershed management (including flood control and ecological restoration) through modifying operations while protecting downstream systems from pollution.

For much of the past 20 years Jed has focused on the intersection of regional water management infrastructure modifications and appropriate changes to regional water management practices that can be enabled by changes in land use and water management infrastructure. Jed was deeply involved in the Biscayne Bay Southeastern Everglades Ecosystem Restoration project (BBSEER) while working with Everglades National Park, and is committed to enhancing our collective understanding of the vital role that natural landscapes play in our lives. Jed was project manager of the Modified Water Deliveries project which enabled rehydration of the northeastern portion of Everglades National Park. This project began in the early 1990's, spanning the careers of multiple project managers, and has led to significant improvements in water deliveries to Everglades National Park – without compromising flood protection to citizens of Miami-Dade county.

Dr. Redwine recently (February 2025) joined FIU's Institute of Environment as an associate research professor and is excited to engage in research that enhances the connection between the citizens of Miami-Dade and their environment. Thank you so much for considering Dr. Redwine's nomination, and as always, we look forward to engaging with our colleagues and local citizens in discussions about the environment on the Biscayne Bay Watershed Management Advisory Board.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd A. Crowl". The signature is fluid and cursive, with the first name "Todd" being more prominent than the last name "Crowl".

Todd A. Crowl

Director, Institute of Environment, an FIU Preeminent Program
PI and Director, NSF CREST Center for Aquatic Chemistry & Environment
PI and Director, NSF REU Coastal Ecosystems Program
Co-PI, NSF BioRets Coastal Ecosystems Program
Professor, Department of Biological Sciences
Past President, Association of Ecosystem Research Center



FLORIDA INTERNATIONAL UNIVERSITY

Member of the Board, American Institute of Biological Sciences

Editorial Board, BioScience

Florida International University

11200 SW 8th St, OE-148

Miami, FL 33199

CURRICULUM VITAE – October 2024
Jed R. Redwine Ph.D

PERSONAL: Birth: 07/11/1974, Social Security Number: XXX-XX-XXXX

Most recent Position: Supervisor of water quality program for the Seminole tribe of Florida.

CURRENT INFORMATION

Address: 22601 SW 180th Ct

Miami, FL 33170

Email: jed_redwine@earthlink.net, jedredwine@gmail.com

EDUCATION

Florida International University: Ph.D. Biological Sciences 2007: GPA 3.616

EPA doctoral fellow: for 2003-2006

Louisiana State University: B.S. Botany 1996: GPA 3.24

Board of Regents Certificate of Excellence

Loyola University - New Orleans: 1992-1994 GPA 3.19

Academic Excellence Scholarship

RESEARCH INTERESTS

Regional scale resource management

Landscape responses to restoration actions

Community Ecology, Succession, and Disturbance ecology

Phenology and ecophysiology of south Florida forests

Everglades Restoration

Klamath River Restoration

Water quality

Wetland health and sustainability

Stormwater treatment systems

South Florida pine rockland ecology

Seasonally dry sub-tropical hardwood forests

Southeastern pine and hardwood forests

Fire ecology

PAST PROFESSIONAL EXPERIENCE

Ecologist, Seminole Tribe of Florida: 5/2022 to 10/2024

- Supervisor of water quality program for Seminole tribe – three technical staff, a team of contractors, and I conducted monthly sampling on 7 tribally owned lands, over 158 unique chemicals sampled each year, curating 3 decades of sample information.
- Seminole Tribe representative on Science Coordination Group – an interagency/intergovernmental organization created to provide advice and policy recommendations to political leaders to develop on environmental issues in southern Florida
- Implement and manage EPA grant program focused on water quality. Manage three contracts for laboratory services and water level data collection.
- Lead Seminole tribe's involvement in RECOVER (Restoration Coordination and Verification) – an interagency/intergovernmental group dedicated to ensuring effective

restoration of the Everglades ecosystem

Hiring Supervisor: Kevin Cunniff (currently Chief Sustainability Officer Miccosukee Tribe of Indians of Florida - phone: 305-773-0841)

PAST PROFESSIONAL EXPERIENCE

Landscape Ecologist: 5/2015 to 5/2022 - GS-0408-13 step 6

In the role of Landscape Ecologist with the National Park Service, I performed a wide range of functions from Project management of the Modified Water Deliveries Project to lead scientist representing NPS in planning the Combined Operational Plan – the first operational plan of the regional ecosystem which was supported by the National Park Service in the history of Everglades National Park. I facilitated management meetings, coordinated a \$10.6 M annual science budget, directly managed a \$1.3M annual budget for the Modified Water Deliveries project, and served as Agency Technical Representative on over \$400,000 annual landscape monitoring projects. My work was primarily focused on landscape-level changes induced by the modifications of the Central and South Florida System through the Comprehensive Everglades Restoration Program (CERP). As part of the Combined Operations Plan, I was designated lead of the Adaptive Management Process for COP through agreement between USACE and ENP leadership, and served at the lead scientist representing the National Park Service on the Combined Operations Plan – a change to regional operations enabled by the Modified Water Deliveries Project.

My role involved a breadth of administrative and collaborative activities. From budget planning to Bayesian models of landscape vulnerability, the work involved a diverse array of technology, people, and projects focused on restoration of the regional ecosystem. Supervisor – David Rudnick (quailr@comcast.net, 561-676-9580 retired in December 2020).

NRCA Ecologist: 10/2011 to 5/2015– GS-0408-11/12 steps 1-3

The NRCA Ecologist position coordinated a working group of resource managers and independent experts to identify a comprehensive list of natural resources for Big Cypress National Preserve and Everglades National Park. Resources are assembled into natural groupings, indicators of the status of each resource are developed, and the status and trend of each resource group is reported. This process yielded two NRCA reports, with 35 co-authors whose efforts supported a spatially explicit synthesis of the relative condition of over 2.3 million acres of habitats that are home to an amazing variety of soils, birds, mammals, herpetofauna, fish, and ecological processes. These two reports each delivered over 300 pages of resource assessment for the National Park Service, and is part of a national series of reports that systematically assess patches of natural and cultural resources in National Park Lands across the U.S. The final report for each park contains the individual resource reports as a chapter (4), along with a standard introduction (Chapter 1), an introduction into the context of each NPS unit (Chapter 2), a description of methods (Chapter 3), and a synthesis chapter (Chapter 5) that are reviewed by both resource managers and independent experts. The daily activities of the NRCA ecologist include: meeting coordination and facilitation; data management, multivariate statistical analysis, and synthesis using ArcGIS; science writing, editing, and report formatting. These documents are used to support Resource Stewardship Strategies for both Big Cypress and Everglades National Park. During the time I also wrote a section of the 2012 USACE System Status Report, and authored the Adaptive Management Appendix of the Big Cypress Hunt Plan and trained several interns in data management analysis, and report writing (over 10 interns to various degrees of intensity, with primary responsibility for four). **Supervisor:** Andrea Atkinson – (786-512-5979; ajatkinson@bellsouth.net).

Graduate committee faculty: 8/2012 – current

Florida International University - Department of Biological Sciences

Dissertation Committee member for Ximena Mesa - ximena.mesa@gmail.com

Ximena has advanced through her dissertation proposal and we are anticipating her graduation to occur before May 2026. Her research focuses on vegetation dynamics of tree islands and the drivers of species composition dynamics along spatial and temporal shifts of hydrological gradients.

Florida International University - Department of Biological Sciences

Dissertation Committee member for Suresh Subedi - Florida International University

Suresh successfully defended his dissertation entitled: “A functional trait approach to examine plant community dynamics in South Florida hardwood hammock forests” in August 2017 and has proceeded to publish and collaborate with his colleagues. Suresh is now an assistant professor at Arkansas Technical University. Suresh.subedi@gmail.com

Florida International University – Department of Environment and Earth Sciences

Thesis committee member for Mario Londoño at Florida International University. Mario successfully completed his thesis entitled: “A Spatial-Temporal Analysis of Land Use and Water Quality in Southern Miami Dade County“. Mario successfully defended his thesis and graduated in August 2015. Mario is currently a GIS specialist with the Seminole tribe of Florida. Mariolondono@semtribe.com

Independent Consultant: 9/2011 – 9/2013, 10/2024 - present

Provide expert review and comment of Klamath water quality restoration planning for the Klamath Basin Tribal Water Quality Work Group (www.klamathwaterquality.com) - contact Eli Asarian (707-832-4206, eli@riverbendsci.com) and/or Crystal Bowman (530-469-3456, cbowman@karuk.us).

Planning support for restoration of Horicon Marsh (Wisconsin) – contact Steve Russell (USACE – Stephen.s.russell@usace.army.mil)

Scientist I: Atkins, Environmental Consulting: 1/1/2009 – 9/23/2011

Distinct areas of activity:

Everglades System Status Report. Dr. Redwine edited much of the Greater Everglades section of the 2009 System Status Report (http://www.evergladesplan.org/pm/ssr_2009/mod_ge.aspx) as a part of a multi-agency team, and wrote significant portions of the Landscape Pattern section in cooperation with Vic Engel (Scientist from Everglades National Park, currently with USGS). The SSR is the reporting document used to synthesize results from multiple indicators across multiple spatial scales with over 40 Principal investigators who monitor the ecological condition of the Greater Everglades Ecosystem - extending across much of the interior of the Florida Peninsula south of Lake Okeechobee. The SSR is signed by directors of the Comprehensive Everglades Restoration Program implementing agencies (U.S. Army Corps of Engineers and the South Florida Water Management District) and is the only official reporting document that is specifically designed to connect ecological consequences to specific hydrological causes in a scientifically rigorous manner. This report is a key element of driving the Adaptive Management Process for CERP, because the cooperating agencies have recognized that they can only manage what they

understand, and the SSR is a record of the level of understanding of the Everglades ecosystem that is shared by the implementing agencies.

Decomartmentalization Physical Model (DPM). Dr. Redwine wrote the operational strategy for the Decompartmentalization Physical Model and edited the DPM Science Plan, in addition to supporting the permit application and construction planning for the DPM. The DPM is a field scale design test that uses a Before-After-Control-Impact (BACI) monitoring design to test key hypotheses about the mechanistic relationships between sheet flow and the development of a ridge-slough patterned landscape that is a defining characteristic of the Everglades. The DPM is an active Adaptive Management process, where large-scale manipulations to hydrologic infrastructure are used to test specifically defined ecological hypotheses, and confirm the validity of existing simulation models.

Band 1 Simulation process. Dr. Redwine was the primary editor of the Analysis of 2015 Band 1 Scenarios Greater Everglades Wetlands appendix to the Band 1 report (http://141.232.10.32/pm/recover/band_1_report.aspx). This document summarizes the expected system-level hydrologic properties of the ~2000 square mile Everglades Protection Area after construction of the first 10 (of 68 proposed) CERP projects. Analysis of these simulations required comparing multiple indicators for multiple scenarios of ecological conditions across the Everglades ecosystem. By accounting for multiple variables across multiple spatial scales, this simulation process led to reorganization of the first phase of the Decompartmentalization Project based on the recognition that enhancing the mean residence time of water in Water Conservation Area 3, and inserting additional water into this area in a manner that supports the existing pattern of the landscape is a necessary predicate for removal of barriers to sheetflow in southern WCA3 if the wetland character of WCA3 is to be preserved.

Klamath Basin Restoration Planning. Provided client Kier Associates, on behalf Kier's client: the Klamath Basin Tribal Water Quality Work Group, consulting services focused on Klamath River water quality issues including treatment wetlands development. These services include interpreting the anticipated environmental benefits derived from proposed alternative methods of achieving desired water quality conditions throughout the Klamath River watershed.

Everglades National Park Hole-in-the-Donut Environmental Monitoring and Analysis. 11/1/2009 - 10/30/2010, served as a statistical analyst interpreting the ecological benefits derived from scraping soils across a 10 square mile region of Everglades National Park. This area had been used for agricultural purposes prior to the establishment of the National Park. A variety of statistical techniques are used to test permit-based hypotheses of the consequence of management directed actions on these restoration areas. I utilized multivariate statistical techniques to summarize the relationship between hydrology and vegetation patterns in order to verify the effectiveness of the restoration actions.

Scientist II Atkins, Environmental Consulting: 7/23/2007 – 12/31/2008

Provide system-wide evaluation of the effects of CERP projects on behalf of USACE as a part of Restoration Coordination and Verification (RECOVER) interagency team. Additional tasks include developing Performance Measures focused on interpreting the effects of altered hydrological pattern on the health and stability of 2000 square miles of Everglades wetland plant communities as a part of technical teams composed of Government and University Scientists. Authored a report synthesizing peat soil accretion rates using non-linear mixed effects models to

develop a regional estimate for the marshes in the headwater marshes of the St. Johns River.

Research Scientist: 9/1/2006 – 7/21/2007

Conducted a review of literature focused on factors affecting the sustainability and health of emergent plant communities in the southern Florida stormwater treatment areas (STAs). As a part of this process I have been able to visit each of the STAs, review performance records, vegetation management activities, design support documents, and a broad array of literature in order to identify the factors that have the potential to impact their long term sustainability and performance. This review provided a basis for making recommendations for research priorities to the STA research division, and initiated a research project designed to investigate the impact of episodes of deep water, and the potential interaction with toxic micronutrient cycles on the dominant plant species present in the system. Reviewed over 500 documents, and integrated 135 of these into a 26-page review of literature under the editorial guidance of Lou Toth (ltoth@sfwmd.gov or phone 561-682-6615) and Dr. Jennifer Richards (richards@fiu.edu or phone: 305 348-3102).

Graduate School:

Doctoral Fellow: 8/2003 – 8/2006

EPA-STAR (Science to Achieve Results) fellow.

Supervisor: Dr. Suzanne Koptur (retired, kopturs@fiu.edu or phone (305) 348-3103)

Consultant: Florida Department of Community Affairs (DCA)

Consultant: Institute for Regional Conservation - survey of the flora of Big Cypress National preserve, Loxahatchee wildlife refuge, and remnant pine rocklands in Miami-Dade County.

Consultant to US Army Corps of Engineers as a sub-contractor to SAIC: 8/05/01-8/25/01

Mapping vegetation over a 16 square-mile area of newly restored Kissimmee river floodplain.

Teaching Assistant: 8/99 – 8/2003

Undergraduate Research – 2 students - 3 credit hours Fall 2003

Ecology Lab – Spring/Fall 2000, Spring/Fall 2001 & Spring, Summer, Fall 2002

General Biology I Lab – Fall 1999, Summer 2000;

Head General Biology TA - Summer 2001 and Spring 2003

Supervisor: Dr. Suzanne Koptur (kopturs@fiu.edu or phone (305) 348-3103)

Mentor: 8/00 – 6/01, 1/02 – 1/06

Giselle Arcia, Pascale William, Fabian Collins, and Meg Lowman were mentored and to fulfill their undergraduate research credits. I mentored Jose de los Reyes as a volunteer, and Richard Alvarez, a high school student.

Supervisor: Dr. Suzanne Koptur (kopturs@fiu.edu or phone (305) 348-3103)

Technician – National Audubon Society: 12/98 – 8/99

Completed a ripe fruit availability project in the Northern Florida Keys for 8 monthly surveys, Manuscript listed below. Assisted in collection of prey base fish in the estuarine bays of NE Florida Bay and Barnes Sound. Assisted in managing the database of fish collections.

Supervisor: Dr. Jerome Lorenz (jlorenz@mail.terranova.net or phone (305) 360-0991).

Associated Investigator – Louisiana State University / Independent: 1/97 - 6/97

Conducted a full resurvey of a pine seedling project and assisted Harold Slater in resurveying five hurricane impacted sub-tropical Hardwood forests in cooperation with volunteers from the non-profit group "Earthwatch". Supervised data collection of a team of 2-3 volunteers, and co-ordinated volunteer housing and activities.

Student Worker - LSU: 8/94 - 12/96

Provided general care and maintenance of two public garden areas and greenhouse facilities.

Research Assistant - LSU: Summers, Christmas, Spring Break: 5/94 - 8/1996

Participated with Dr. William J. Platt and Harold Slater as a field research supervisor and database constructor for a system of permanent plots in the Pine and sub-tropical Hardwood forests in the Everglades National Park. following Hurricane Andrew. I often supervised data collection by a team of one to five undergraduates or volunteers. During this period I also carried out a juvenile pine/fire monitoring project comparing effects and characteristics of fire temperature and fuel availability on juvenile pines in either the early or late wet season. Results were presented to the Ecological Society of America at the annual meeting in 1996.

Supervisor Dr. William J. Platt (retired, btplat@lsu.edu or phone (225) 578-6586).

PAPERS / PROJECTS (https://www.researchgate.net/profile/Jed_Redwine):

Nocentini, Andrea, J. Redwine, E. Gaiser, T. Hill, S. Hoffman, Sophia, J. Kominoski, J. Sah, D. Shinde, D. Surratt. 2024. Rehydration of degraded wetlands: Understanding drivers of vegetation community trajectories. *Ecosphere* 10.1002/ecs2.4813

Xiong, Lin, D. Lagomasino, S. Charles, E. Castañeda-Moya, B. Cook, J. Redwine, L. Fatoyinbo, 2022. Quantifying mangrove canopy regrowth and recovery after Hurricane Irma with large-scale repeat airborne lidar in the Florida Everglades. *International Journal of Applied Earth Observation and Geoinformation* v.114. 10.1016/j.jag.2022.103031

Nocentini, Andrea & Kominoski, John & O'Brien, Joseph & Redwine, Jed. 2022. Fire intensity and ecosystem oligotrophic status drive relative phosphorus release and retention in freshwater marshes. *Ecosphere*. 13. 10.1002/ecs2.4263.

Ross, M., S. Stoffella, R. Vidales, J.F. Meeder, D.C. Kadko, L.J. Scinto, S. Subedi, and J. Redwine. 2021. Sea-Level Rise and the Persistence of Tree Islands in Coastal Landscapes. *Ecosystems*. 10.1007/s10021-021-00673-1.

Park, J.C., J.R. Redwine, T.D. Hill, and K. Kotun. 2019. Water resource and ecotone transformation in coastal ecosystems. *Ecological Modelling* 405:69-85.

Subedi, S.C., M. Ross, J.P. Sah, J.R. Redwine, and C. Baraloto. 2019. Trait-based community assembly pattern along a forest succession gradient in a seasonally dry tropical forest. *Ecosphere* 10(4). DOI: 10.1002/ecs2.2719

Redwine, J., A. Atkinson, A. Clarke, D. McPherson, and C. Mitchell. 2019. Natural Resource Condition Assessment of Everglades National Park. Natural Resource Report NPS/EVER/NRR-2019/1991. National Park Service, Fort Collins, Colorado.

- Rodgers, H.L., A. Pernas, J. Redwine, B. Shamblin, and S. Bruscia. 2017. Multiscale Invasive Plant Monitoring: Experiences from the Greater Everglades Restoration Area. *Weed Technology* 32(1):1-9.
- Park, J.C., E. Stabenau, J.R. Redwine, and K. Kotun. 2017. South Florida's Encroachment of the Sea and Environmental Transformation over the 21st century. *Journal of Marine Science and Engineering* 5(31). DOI: 10.3390/jmse5030031
- Park, J.C., J.R. Redwine, E. Stabenau, and K. Kotun. 2017. Behavioral Observations of the Cape Sable Seaside Sparrow from an Acoustic Array. NPS Technical Report. DOI: 10.13140/RG.2.2.27867.87849
- Park, J.C., E. Stabenau, J.R. Redwine, and K. Kotun. 2016. Hypersalinity in Florida Bay: A low-dimensional nonlinear model. National Park Service technical report. DOI: 10.13140/RG.2.2.34159.33440
- Carr, J.A., P. D'Odorico, V. Engel, and J.R. Redwine. 2016. Tree island pattern formation in the Florida Everglades. *Ecological Complexity* 26:37-44. DOI: 10.1016/j.ecocom.2016.03.007
- Redwine, J.R., J. Kellam, A. Atkinson, M. Patterson. 2015. Natural Resource Condition Assessment of Big Cypress National Preserve. 310 pgs. Final draft.
- Redwine, J.R and M. Londoño, Characterizing Fire Across the Greater Everglades Landscape - Everglades National Park and Big Cypress National Preserve. 2014 CERP System Status Report.
- Decomartmentalization Physical Model Science Team (DPMST). 2010. Decompartmentalization Physical Model Science Plan.
- RECOVER. 2009. (Released to public 2011). System Status Report. Greater Everglades. http://141.232.10.32/pm/ssr_2009/mod_ge.aspx
- Dan Nehler, Alicia LoGalbo, Gregg Reynolds, Doug Donalson, Agnes Mclean, Andy Gottlieb, and Jed Redwine. 2008 (Released to public 2010). Analysis of 2015 Band 1 Scenarios Greater Everglades Wetlands. http://141.232.10.32/pm/recover/band_1_report.aspx
- Redwine, J.R. 2008. Leaf morphology scales multi-annual trends in nutrient cycling and leaf, flower, and fruiting phenology among species in the sub-tropical hardwood forests of the northern Florida Keys. Dissertation, Florida International University. 142 pp. ISBN: 9780549206392
- Redwine, J.R., R. Sawicki, J.J. Lorenz, and W. Hoffman. 2007. Ripe fruit availability in the fragmented hardwood forests of the northern Florida Keys. *Natural Areas Journal* 27(1): 8-15.
- Redwine, J. Adding information to permanently marked plots of tropical dry forest trees. OTS 2000-03 course manual.

Redwine J. and Ranganathan, J. The ecophysiological and anatomical characteristics of two species in the family Fabaceae with contrasting life histories and leaf morphologies. OTS 2000-03 course manual.

Camelo de Castro, E., Redwine, J. (secretaries), Spurney, J., and Marin-Spiotta, E. Effects of topography on forest structure and edaphic factors in a lowland tropical rainforest: I. Forest Structure. OTS 2000-03 course manual.

Marin-Spiotta, E. Spurney, J. (secretaries), Camelo de Castro, E., and Redwine, J. Effects of topography on forest structure and edaphic factors in a Lowland tropical rainforest: II. Edaphic factors. OTS 2000-03 course manual.

Redwine, J., Spurney, J. Effects of land use on soil aggregate structure in a lower montane tropical forest. OTS 2000-03 course manual.

PANEL DISCUSSIONS

Don Dies, Matt Harwell, Eric Hughes, Kelly Keefe, and Jed Redwine. Implications for Everglades Restoration Based on New Scientific Knowledge. Greater Everglades Ecosystem Restoration Conference 2010. Panel Session.

PRESENTATIONS

Redwine, Jed and Nocentini, A., Wetland Restoration as an Act of Stewardship – a Seminole Perspective. 2024. National Conference on Ecosystem Restoration. Albuquerque, NM. https://conference.ifas.ufl.edu/ncer/prior/ncer2024/mobile/documents/Presentations/Wednesday/Session%2014/4-Redwine_Nocentini.pdf

Redwine, Jed. Bridging Towards Restoration: How Expanding Adaptive Management Processes Will Influence the Next Decade of Ecological Conditions in Northeast Shark River Slough. 2020. Greater Everglades Ecosystem Restoration Conference. Online.

Redwine, Jed. Agnes McLean, David Rudnick, and Troy Hill. How much environmental benefit can \$1 billion in new infrastructure deliver to the Everglades watershed? Coastal Estuarine Research Federation Meeting. 2019. Mobile, Ala

Redwine, J. Completing Modified Water Deliveries – Tree Islands as a Performance Indicator for Combined Operations Planning. 2019. Greater Everglades Ecosystem Restoration Conference. Coral Springs, FL.

Redwine, Jed, Robert Johnson. 2016. Restoration Targets: Using Our Knowledge of the Past to Create a Sustainable Future. National Conference on Ecosystem Restoration. Coral Springs, FL DOI: 10.13140/RG.2.1.2473.8166

Redwine, Jed. Natural Resource Condition Assessments of EVER and BICY. Greater Everglades Ecosystem Restoration Meeting 2015. Coral Springs, FL.

Redwine, Jed and Mario Londoño. Assessing the Condition of Exotic Plant Species in the Eastern Addition Lands of Everglades National Park. Intecol Meeting 2012, Orlando Florida.

- Redwine, Jed, Matt Harwell, Shawn Komlos, Leonard Pearlstine, and Erik Powers. Where should we act and at what scale? Defining the meaning of restoration from an ecological perspective. National Conference on Ecosystem Restoration 2011. Presentation.
- Agnes McLean, Jim Vearil, Andy LoSchiavo, Jed Redwine, and Kris Esterson. Band 1: Simulating and analyzing the effects of 10 Everglades restoration projects for the Comprehensive Everglades Restoration Plan. Greater Everglades Ecosystem Restoration Conference 2010. Presentation.
- Redwine, J.R. Performance Measures are essential for planning, operation, and validation of landscape restoration projects. National Conference on Ecosystem Restoration 2009. Presentation.
- Redwine, J.R. Nutrient cycling features of 9 tropical tree species with contrasting abundances in forests of different ages. FIU Biology Department Symposium. January 27, 2007.
- Redwine, J.R. and M. Ross. Are species composition and diversity related to forest age in the sub-tropical forests of the Northern Florida Keys? Association of Tropical Biology and Conservation annual meeting. August 2005.
- Redwine, Jed R.* and C. Pascal William. The simultaneous measurement of morphology, nutrient content, and isotopic fractionation of one deciduous and one evergreen sub-tropical tree species. Biology Department Symposium. January 2003
- Jed R. Redwine* and Suzanne Koptur. Initial results from an ecophysiological and phenological approach to the upland forests of the northern Florida Keys. Biology department. Florida International University Tropical Biology Symposium. January 2002
- Redwine, Jed R., R. Sawicki, W. Hoffman, J.J. Lorenz. Ripe fruit availability in the hardwood hammocks in the northern Florida Keys. Florida International University Tropical Biology Symposium. January 2001.
- Redwine, Jed R., William J. Platt and Harold H. Slater. The effects of fire season and fire intensity on mortality of juveniles for Florida slash pine (*Pinus elliottii* var. *densa*) in the Long Pine Key region of Everglades National Park. Bulletin of the Ecological Society of America, Vol. 77, No. 3, July 1996, pg. 368.

POSTERS

- Jim Vearil, Agnes Mclean, Lisa Cannon, Jed Redwine, and Andy LoSchiavo. System-wide Planning and Evaluation: Simulating the Hydrologic Effects of the first ten proposed Restoration Projects on the Everglades Ecosystem and Regional Infrastructure. National Conference on Ecosystem Restoration 2009. Poster
- Dan Nehler, Alicia LoGalbo, Gregg Reynolds, Doug Donalson, Agnes Mclean, Andy Gottlieb, and Jed Redwine. Interpreting the ecological effects of the first ten Everglades Restoration Projects using simulation modeling and Performance Measures. National Conference on Ecosystem Restoration 2009. Poster

Jim Vearil, Elmar Kurzbach, Agnes Mclean, Steve Traxler, Andy Gottlieb, Rebecca Elliot, Tom St. Clair, Jed Redwine, and Andy Loschaivo. Comprehensive Everglades Restoration Program Adaptive Management Opportunities: What regional simulations suggest about the risks and rewards of the first ten proposed restoration projects. National Conference on Ecosystem Restoration 2009. Poster

Quan Dong, Jed Redwine, Mike Ross, and Jay Sah, Andrew Gottlieb, and Doug Donalson. Predicting the Impact of CERP on Wet Prairie Vegetation Communities located on Marl Soils. Greater Everglades Ecosystem Restoration Conference 2008. Poster.

Gregg Reynolds, Agnes R. McLean, Vic Engel, Shawn Komlos, Andrew Gottlieb, Patty Goodman, Freddie James, Timothy Pinion, and Jed Redwine. Methods for Evaluating Landscape-Scale Sheet Flow Properties in Greater Everglades Wetlands. Greater Everglades Ecosystem Restoration Conference 2008. Poster.

Shawn Komlos, Patty Goodman, Andy Gottlieb, Jed Redwine, and Jana Newman. Predicting CERP influences on Extreme High and Low Water Levels in Greater Everglades Wetlands. Greater Everglades Ecosystem Restoration Conference 2008. Poster

Redwine, J.R. Preserving high quality habitats for the endangered species of the Florida Keys. Environmental Protection Agency Science Forum. May 16-18, 2005.

Redwine, J.R. and C.P. William. Leaf thickness and canopy region accounts for carbon, nitrogen and carbon stable isotope contents in two co-occurring species of subtropical hardwood trees. EPA STAR Graduate Fellowship Conference 2004.

Redwine, Jed R. Changes in leaf biology suggest increasing nutrient use efficiency of tree species as succession progresses while nutrient content and ratios suggest P limitation in the upland subtropical forests of the Northern Florida Keys. Florida International University Tropical Biology Symposium. January 2002. – Poster

FUNDING AWARDS (~\$100,000 total)

EPA MIA Fellowship - \$93,000 over 3 years –8/2003-8/2006

Kelley research fund - \$898 for nutrient and stable isotope analysis

FIU GSA - \$500 for travel to ATBC meeting in Brazil 7/2005

FIU Biological Sciences - \$200 for travel to ATBC meeting in Brazil 7/2005

FIU Arts and Sciences - \$200 for travel to ATBC meeting in Brazil 7/2005

Tropical biology program at FIU- \$2000 for research – 3/01

Tropical biology program at FIU - \$3000 for travel to Costa Rica – 4/00

FIU Graduate Student Association - \$500 for nutrient analysis – 8/02

INSTRUMENTATION

Spectrophotometer/colorimeter, Carlo-Erba mass spectrometer, Theodolite (total station) mapping system, Lotus palmtop, IBM and Apple computers Magellan GPS Trailblazer XL system, Li-Cor 6400 Infrared gas analyzer, Li-Cor 2100 Pan-fluorometer, Campbell 10, 10X, and 2100 data-loggers, Hemispherical photography/canopy analysis.

LABORATORY SKILLS

Plant tissue nutrient content (C, N, and P using autoanalyzer and spectrometer)

Plant/Animal tissue stable isotope composition (C, O, and N using mass spectrometer)

RELATED COURSES

Loyola-New Orleans and Louisiana State University:

Principles of Ecology; Analytic Geometry and Calculus I; General Physics I & II; Statistical Methods; Introduction to Computer Science I & II; Organic Chemistry I & II; Plant Taxonomy; General Plant Biology; Basic Biochemistry; Introduction to Plant Physiology; Principles of Genetics; General Chemistry I & II; Eukaryotic Molecular Genetics; Plant Population Biology (graduate-audited); Introductory Zoology; Undergraduate Research

Florida International University:

Courses:

Introduction to Biological Research; Multivariate Analysis I & II; Advanced Ecology I & II; Stable Isotopes Biogeochemistry; Statistical Methods for Research I & II; Plant Ecology; Environmental Instrumentation; Dissertation research; Tropical Plant Taxonomy Regression Analysis; Radiometry and Spectrophotometry; Database Analysis; Biology of Trees of South Florida; Plant-animal interactions; Gas-Exchange and Fluorometry; Teaching Biology; Insects and plants; Remote Sensing; Vascular Plant Morphology

University of Costa Rica:

Tropical Biology: An Ecological Approach

SPECIAL SKILLS

Advanced R coding for database analysis and visualization

Geographic Information Systems – ArcGIS

Python coding

Scientific and interpretive writing

Certified Burn Boss in the State of Florida (Hillsborough Community College, 2 hrs)

Federal Firefighter's Red Card: Basic Fire School (S-130 / S-190)

Fluency in German, some Spanish speaking ability

Software used: R, S, Word Perfect, Excel, MSWord, MapInfo, SQL, MS Access, Populus, SAS, SPSS, Photoshop, Winphot, and Systat.

Intermediate Pascal programming ability, advanced object-oriented programming

Linux/Unix computer systems

CLUBS AND SOCIETIES

Association for Tropical Biology and Conservation, Ecological Society of America, Natural Areas Association, Plant Biologists of South Florida, Nutrient Analysis Club – President 2002-03, Biology Graduate Student Association – Secretary 2000-01, 2003-04, Representative 2004-05, 2005-06; Student Environmental Association – member at large 2001



MEMORANDUM

(Revised)

TO: Honorable Chairman Anthony Rodriguez
and Members, Board of County Commissioners

DATE: June 26, 2025

FROM: 
Glen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 8(L)(1)

Please note any items checked.

- _____ **"3-Day Rule" for committees applicable if raised**
- _____ **6 weeks required between first reading and public hearing**
- _____ **4 weeks notification to municipal officials required prior to public hearing**
- _____ **Decreases revenues or increases expenditures without balancing budget**
- _____ **Budget required**
- _____ **Statement of fiscal impact required**
- _____ **Statement of social equity required**
- _____ **Ordinance creating a new board requires detailed County Mayor's report for public hearing**
- _____ **No committee review**
- _____ **Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, majority plus one ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3) (h) or (4)(c) ____, CDMP 9 vote requirement per 2-116.1(4)(c) (2) ____ to approve**
- _____ **Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(L)(1)
6-26-25

RESOLUTION NO. _____ R-604-25

RESOLUTION APPOINTING DR. Jed R. REDWINE TO THE
MIAMI-DADE COUNTY BISCAYNE BAY WATERSHED
MANAGEMENT ADVISORY BOARD FOR A FOUR-YEAR
TERM

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board appoints Dr. Jed R. Redwine, as recommended by the Florida International University Institute of Environment, to the Miami-Dade County Biscayne Bay Watershed Management Advisory Board to serve a four-year term beginning with the effective date of this resolution.

The foregoing resolution was offered by Commissioner **Kionne L. McGhee**, who moved its adoption. The motion was seconded by Commissioner **Marleine Bastien** and upon being put to a vote, the vote was as follows:

Anthony Rodriguez, Chairman	aye		
Kionne L. McGhee, Vice Chairman	aye		
Marleine Bastien	aye	Juan Carlos Bermudez	aye
Sen. René García	aye	Oliver G. Gilbert, III	aye
Roberto J. Gonzalez	aye	Keon Hardemon	absent
Danielle Cohen Higgins	aye	Eileen Higgins	absent
Natalie Milian Orbis	aye	Raquel A. Regalado	aye
Micky Steinberg	aye		

The Chairperson thereupon declared this resolution duly passed and adopted this 26th day of June, 2025. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.



MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

JUAN FERNANDEZ-BARQUIN, CLERK

By: Basia Pruna
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

A handwritten signature in black ink, appearing to be "NJB", written over a horizontal line.

Narinah P. Jean-Baptiste