





Greater Everglades Priority Ecosystems Science (GEPES) Program

- One of five PES programs in country
- Provides money for critical Everglades science efforts
- Presently funded at almost \$6 million
- Projects led by USGS researchers from across the country
- Most projects are multi-year
- Provides independent but management-relevant science for restoration
- Its success depends on effective science communication



Why is effective science communication important?

"When scientists are able to communicate effectively beyond their peers to broader, non-scientist audiences, it builds support for science, promotes understanding of its wider relevance to society, and encourages more informed decision-making at all levels, from government to communities to individuals. It can also make science accessible to audiences that traditionally have been excluded from the process of science. It can help make science more diverse and inclusive."



Why should we care about effectively communicating Everglades science?

- International Biosphere Reserve (1976)
- UNESCO World Heritage Site (1979)
- Wetland of International Importance (1987)
- Ecologically rich and unique globally
- Important for human health and well-being
- Provides many ecological services flood buffer, water storage, groundwater recharge, water cleansing, shoreline stabilization and storm protection, biodiversity
- And, because we just should!



Five keys to effective science communication







2) Involve decision-makers in a meaningful way at regular intervals throughout the scientific process

- UCAR PACE Fellowship
- Post-doc required to spend 50% of time in academic environment, 50% of time in decision-making environment
- Scheduled monthly calls with participants; evolved into steering group for research
- Meetings ensured research was addressing management needs
- Some participants became meaningful coauthors on scientific papers
- All of this required regular and significant time commitments



- 3) Continual learning by both scientists and decision-makers to improve communication skills and techniques, including professional training
- Example of what took place yesterday with the three communication workshops.
- Creating powerful powerpoint; Designing and delivering a TED talk; The secrets of dynamic delivery (Jezra Kaye; speakupforsuccess.com)
- Consider professional training of scientists in communication and inclusion of it in graduate programs



4) Recognition that successful communication entails a significant investment of time and effort

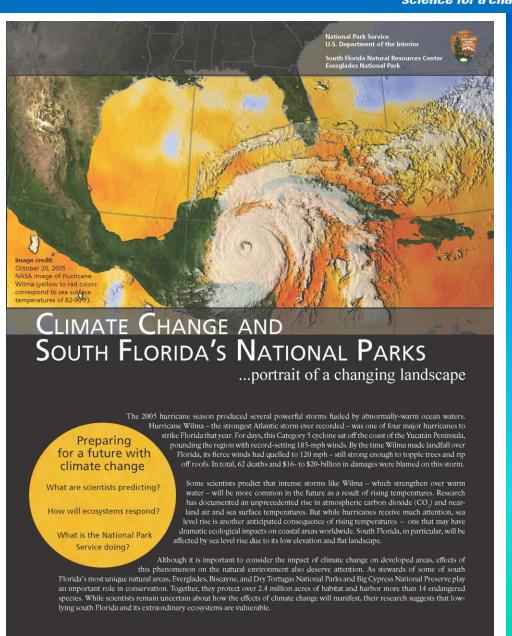
- Has to be important enough to be part of individual development plans and performance evaluations
- Incentives in academia for promotion and tenure
- Metrics of success



5) Dedicating sufficient time, financial, and human resources to science communication



Everglades National Park's South Florida Natural Resources Center incorporated science communications as a branch, and led to the development of a number of significant outreach publications





Conclusions

- As scientists, we should avoid the assumption that we know best what managers need from us
- The co-production of the science effort between scientists and end-users is essential
- We all can benefit from some level of professional training in science communication



