Communicating scientific information to a broad audience

Bill Dennison



Chesapeake Bay – Guanabara Bay Partnership Maryland StateStat Room 30 July 2013



What is the Integration and Application Network?

IAN's aim is to enable better communication to empower change.



Integration & Application Network Communicate better, Empower change.



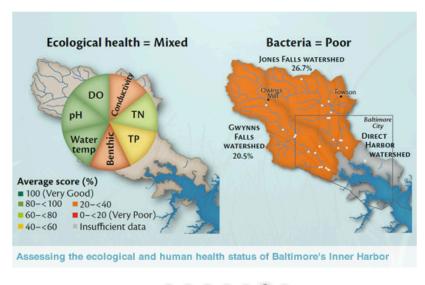
WORK WITH US IAN PRESS ECOCHECK TOOLS PROJECTS NEWS LEARN PEOPLE CONTACT ABOUT SEARCH











ENEWSLETTER

Course in communicating science effectively

UMCES Facebook challenge

Assessing the vulnerability of the Great Barrier Reef to climate change

Interactive symbol creation tutorial

Environmental report card workshop in Surfers Paradise, Australia

Streamlining environmental reporting in the Pacific region

JOURNAL ARTICLES

The Central Role of Dispersal in the Maintenance and Persistence of Seagrass Populations

Megacities in the coastal zone: Using a driver-pressure-state-impactresponse framework to address complex environmental problems



Solving, not just studying environmental problems

STUDY

- Dispassionate
- Embrace complexity
- Publish & funding via peer review
- Getting it right



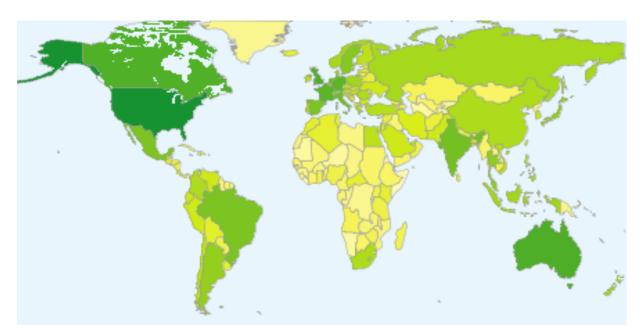
SOLVE

- Passionate
- Simplify
- Publish & funding via stakeholders
- Getting it done

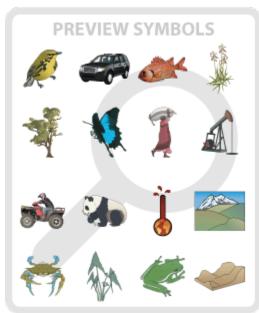
IAN is making a global impact



IAN's is creating a global symbol language

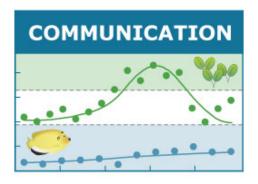


236 Countries



2604 symbols

IAN has three main focus areas







Develop Science Communication products





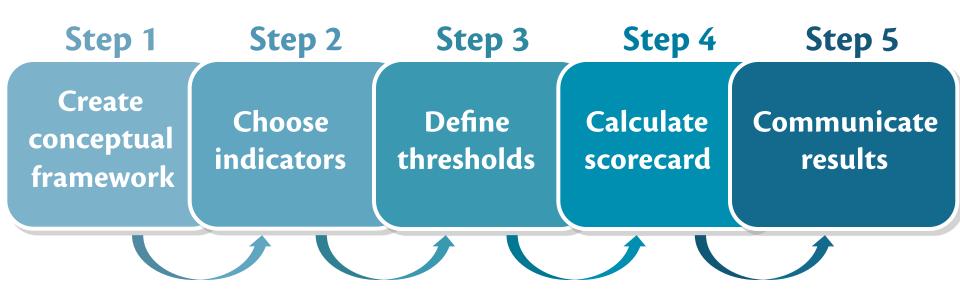
Environmental Report Cards



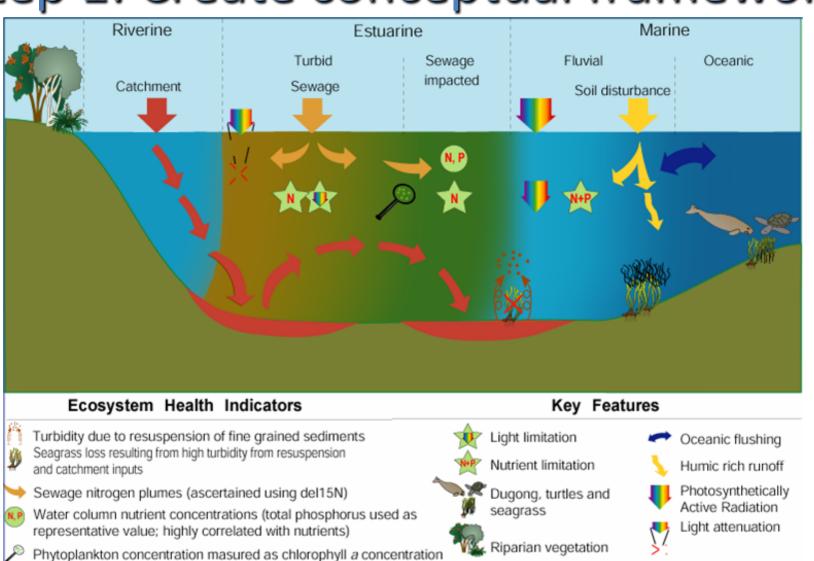


Science Communication Training

Several basic steps are involved in producing report cards



Step 1: Create conceptual framework



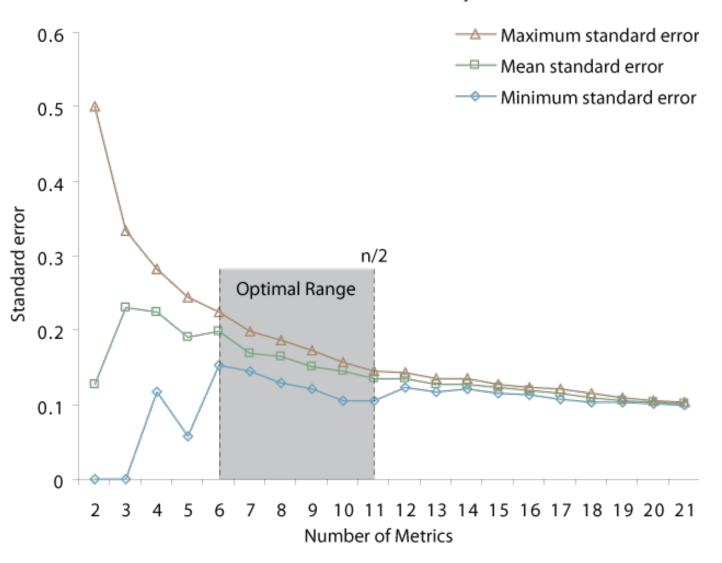
Lyngbya, a toxic cyanobacteria, grows on seageasses

Fine grained sediments

Coarse grained sediments

Step 2: Choose indicators

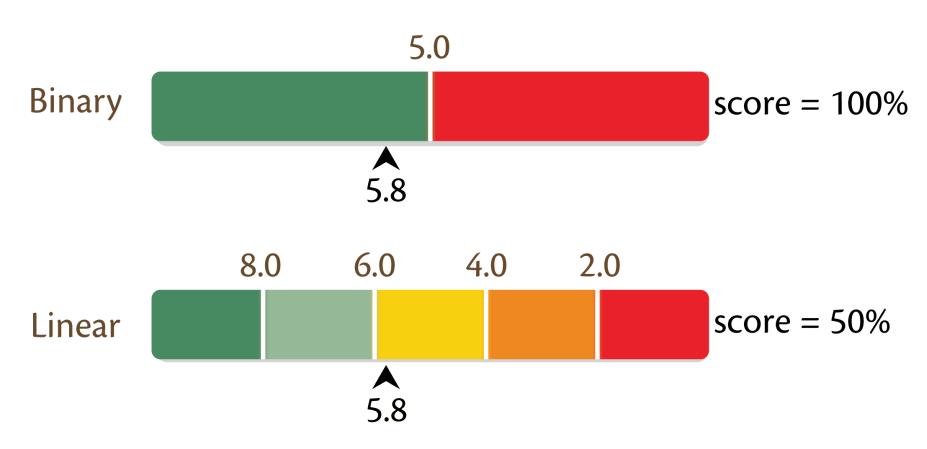
that convey meaningful ecological information and can be measured reliably



Step 3: Define thresholds

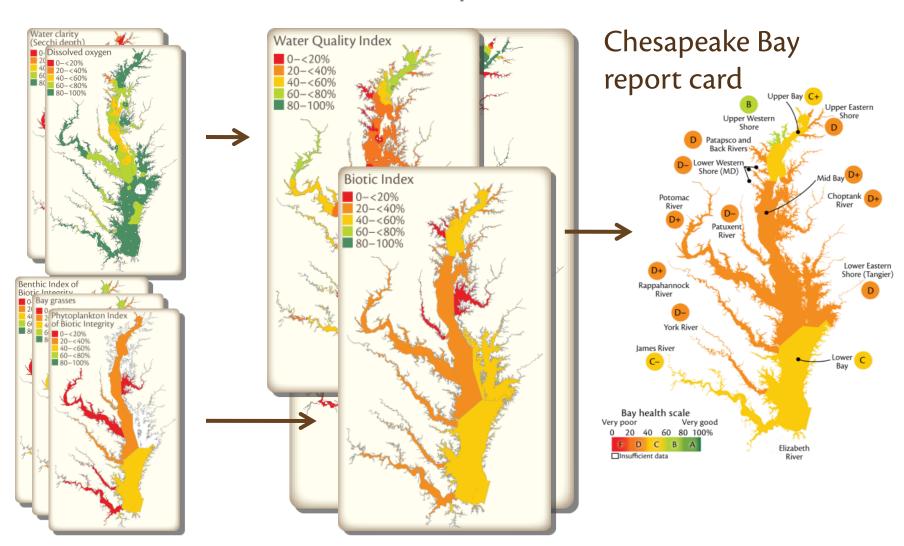
and reporting regions to establish environmental benchmarks and spatial details

Dissolved oxygen (mg·L⁻¹)



Step 4: Calculate scorecard

for dissemination to decision-makers, resource managers, and interested public



Step 5: Communicate results

effectively through mass media with supporting material in technical or web-based venues





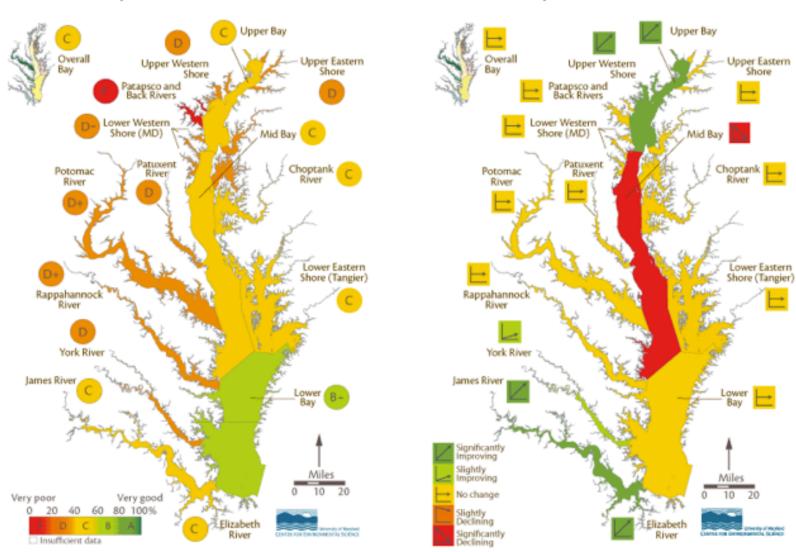




Chesapeake Bay report card & trajectories

Bay Health Index 2012

Bay Health Trends 2012

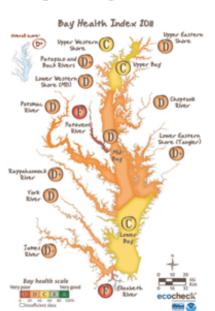


BayStat tracks health, pressures and solutions

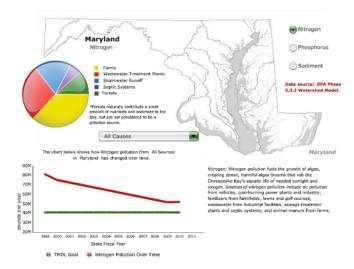


Current Health

Chesapeake Bay Habitat Heal



Causes of the Problems



one Goals and Progress Report

