



**Moscow  
September 22, 2010  
Russian Geographic Society**

# **The Natural History of the Arctic in Global Politics**

**William M. Eichbaum  
VP, Marine & Arctic Policy  
WWFUS**





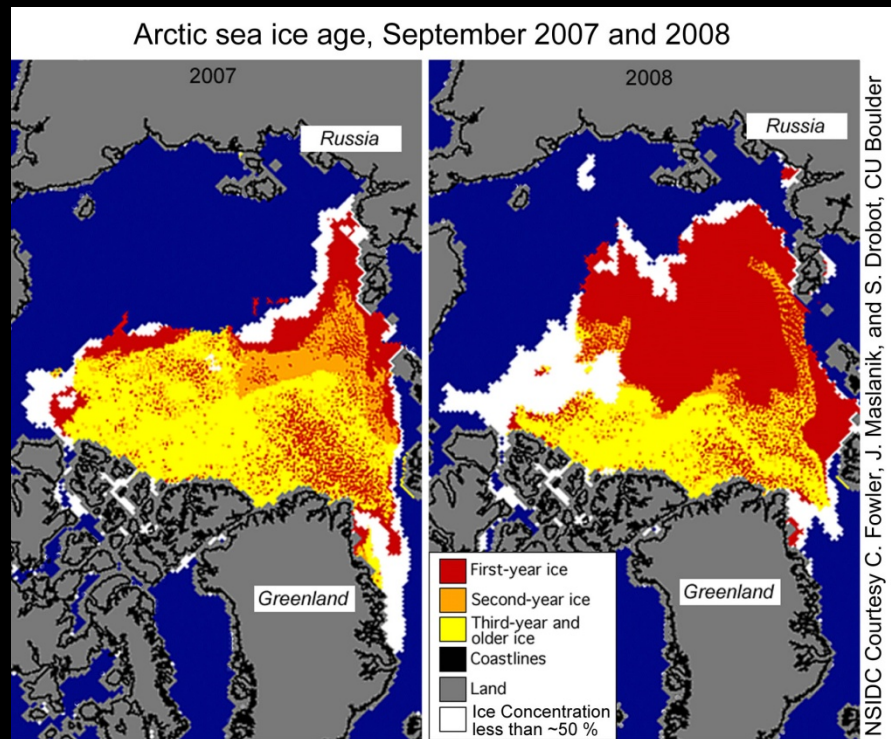
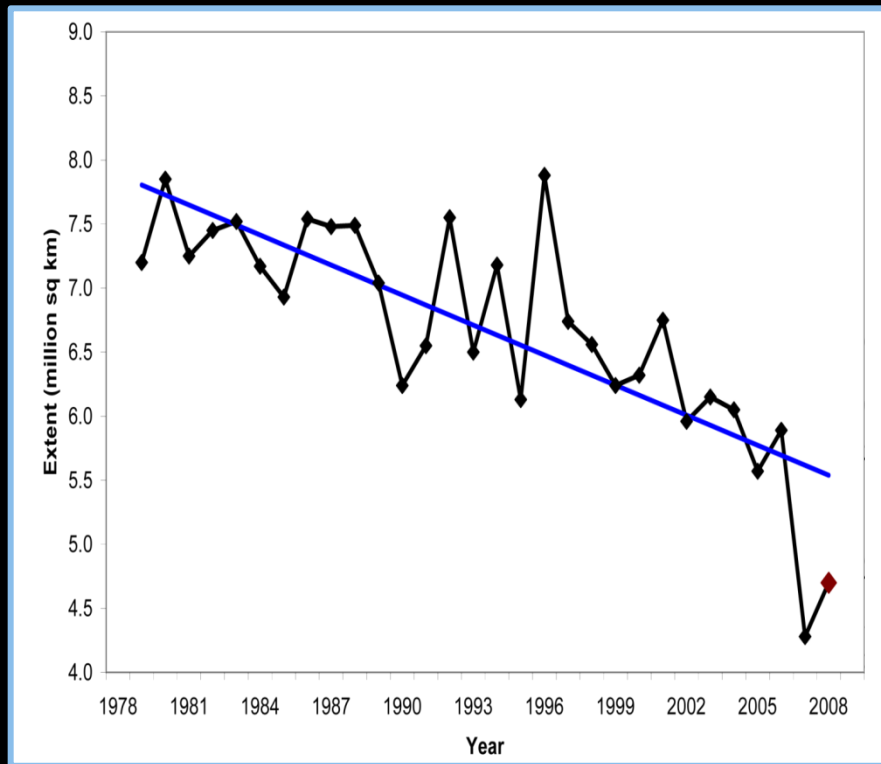
Washington, DC  
April 1, 2014  
American Meteorological Society  
2014 Washington Forum

## **New Governance to Manage Global Impacts of Arctic Change**

**William M. Eichbaum  
Senior Fellow, Arctic Policy  
WWF-US**



# Arctic Change: Rapid and Severe

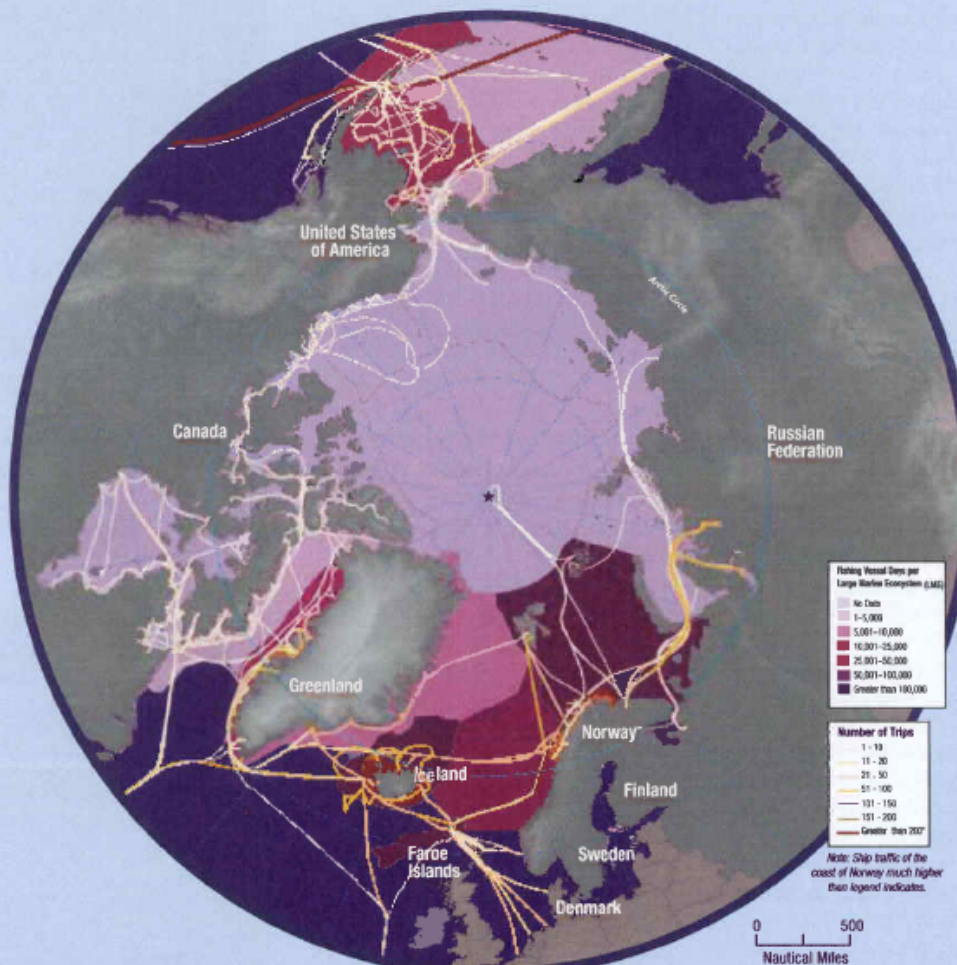


Average sea ice extent for September in the Arctic (the sea ice minimum occurs during that month)





# Expanding Human Use: Shipping



Overview of all vessel activity for 2004, including fishing vessels

Source: AMSA





# In Moscow I argued: Arctic Governance = Good Stewardship



- **Preservation of the Arctic for future generations**
- **Cooperative planning and management of marine resources with the view of long term sustainability**
- **Responsibility for environmental quality shared by all those whose actions affect the environment**



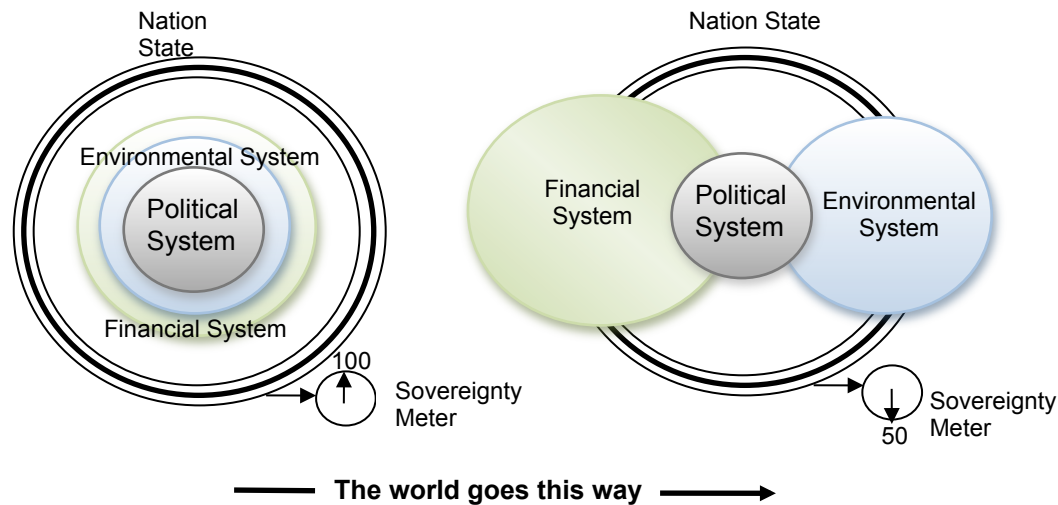
# Arctic Change Has Dramatic Global Impacts





# The Arctic Governance Gap

## The new reality of struggling nation-states ...



- After Rischard, J.F., *High Noon: Twenty Global Problems, Twenty Years to Solve Them*, Basic Books, 2002, p. 45 and p.55.



# Characteristics of Arctic Change

- Interconnectedness
- Incomplete knowledge
- Unknown Tipping Points
- Global Impact







# A New Arctic Council System

- Strengthened **Arctic Council at the hub** of formal and informal international and national governance mechanisms
- Integrated ecosystem-based management
- 21<sup>st</sup> Century resource management --- precautionary approach, etc.
- Networks of Marine Protected Areas.
- Socio-economic benefits for present and future generations
- Transparency and accountability, incl. through E- governance.
- Plan, Implement, Assess and Report
- **Robust Science** for policy making
- **Geoengineering**





**Protecting the future of nature.**