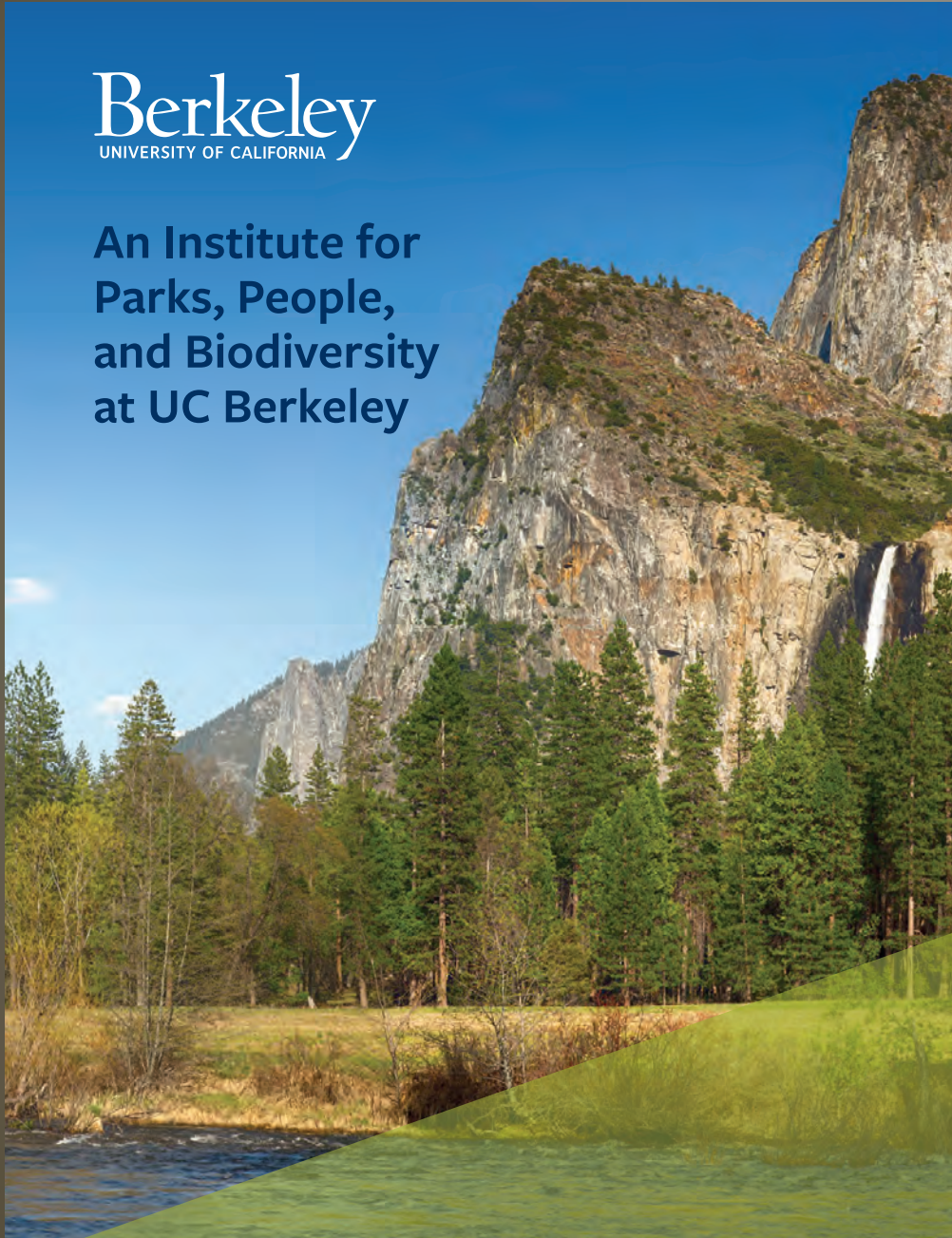




**An Institute for
Parks, People,
and Biodiversity
at UC Berkeley**



- Science for Parks, Parks for Science, especially in light of climate change
- New Models of Parks and Public Lands Governance
- Engaging More Diversity in Parks and Public Lands
- Public Forums and Training for a new Generation of Conservation leaders
- Executive Director: Jon Jarvis
- jonbjarvis@berkeley.edu

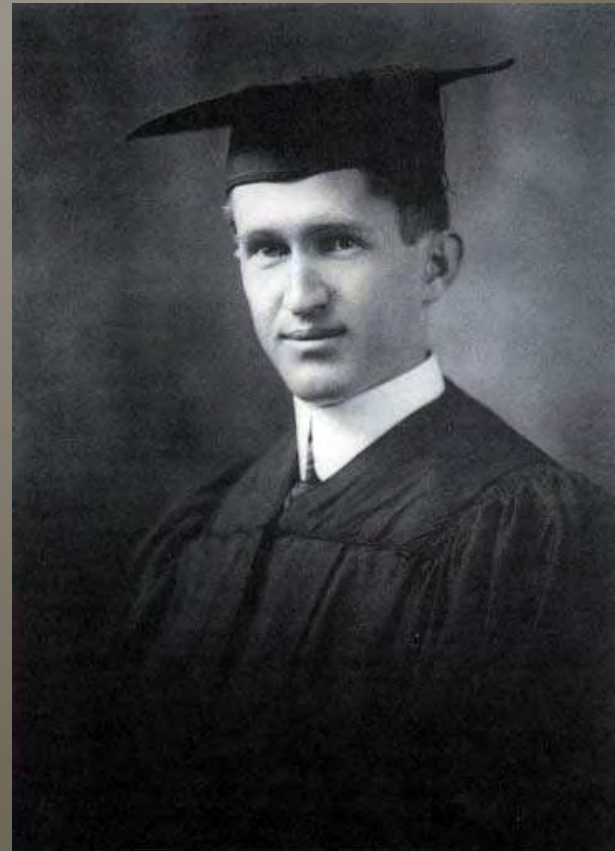


Former NPS Director Jarvis with President Obama in Everglades National Park, 2016



President Teddy Roosevelt and John Muir in Yosemite National Park, 1903

Berkeley grads Stephen Mather (alum 1887) and Horace Albright (alum 1912) are widely credited with running a campaign that helped to launch the NPS. They became the first and second Directors of the NPS





Stephen Mather led this Mather Mountain Party into the Sierra mountains in 1915

FRANKLIN K. LANE

SECRETARY OF INTERIOR FROM 1913-1920

Attended classes at UC Berkeley from 1884-1886.



SECRETARY LANE'S LETTER ON NATIONAL PARK MANAGEMENT

May 13, 1918

“This policy is based on three broad principles: First that the national parks must be maintained in absolutely unimpaired form for the use of Future generations as well as those of our own time; second, that they are set apart for the use, observation, health, and pleasure of the people; and third, that the national interest must dictate all decisions affecting public or private enterprise in the parks.”



Joseph Grinnell, the first director of UC Berkeley's Museum of Vertebrate Zoology, realized that California was changing rapidly.

He conducted biological surveys, collecting tirelessly in parks and elsewhere from 1908 until his death in 1939. He championed the role of science in park management.



*A SURVEY OF ANIMAL PROBLEMS
IN THE
NATIONAL PARKS
OF THE
UNITED STATES*

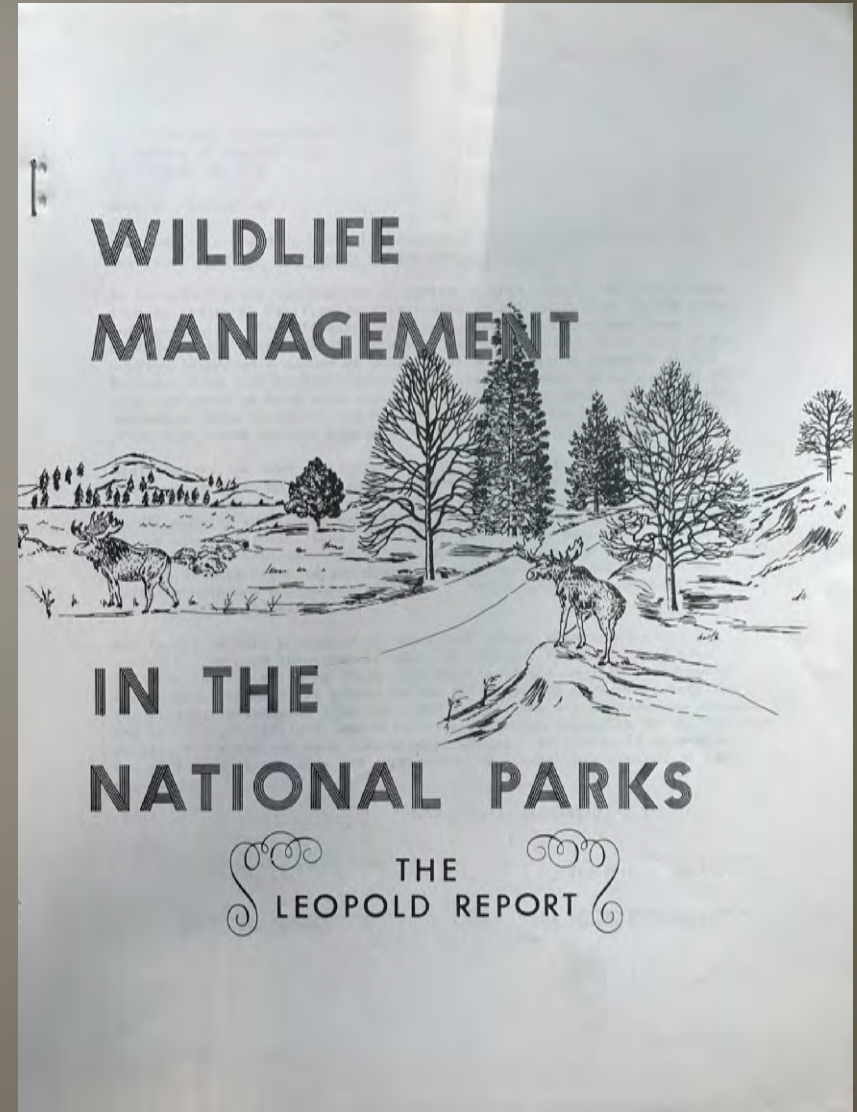
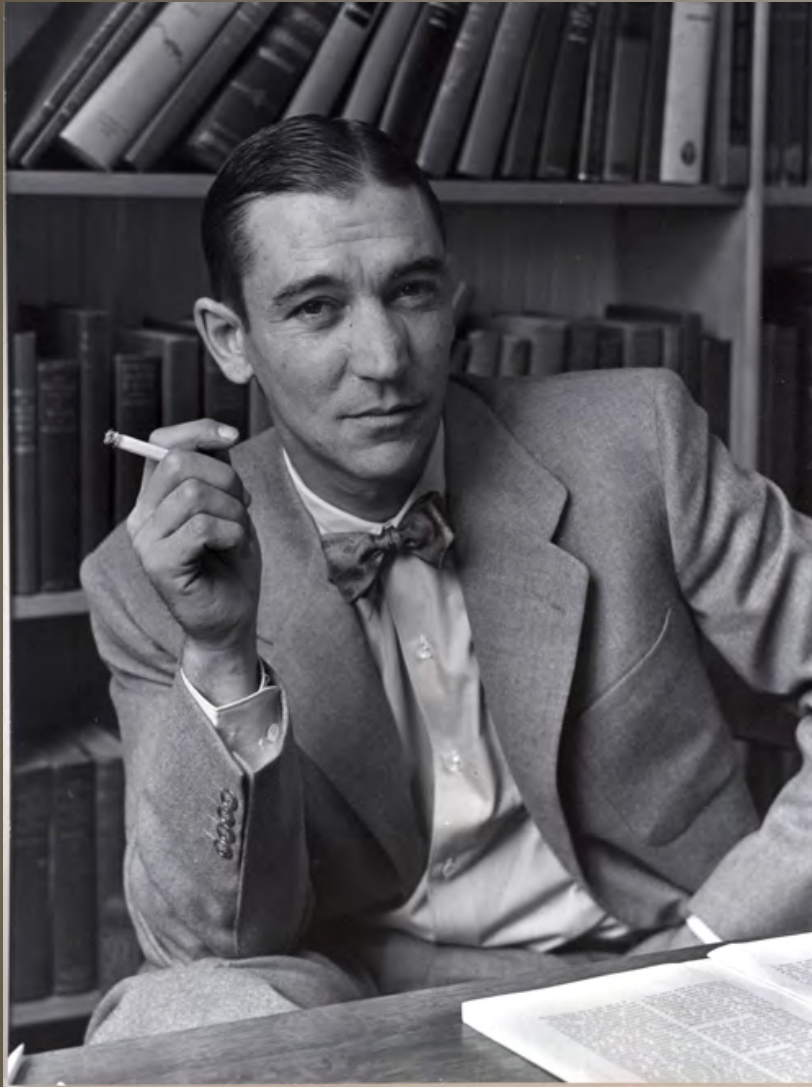
FIELD <1930> SEASON

April and early May have been spent in preparation. After numerous delays which have delayed our starting nearly three weeks we are now on the way. No one can know how glad we are.

May 24. This is the first official field season of "wild" animal surveys in National Parks. This party consists of Joseph Dixon, economic mammalogist at the University of California, George M. Wright, scientific aid U.S.N.R.S., and Benjamin H. Thompson, field assistant. We start in a car of latest model (registering 160 miles only) which the members of the party have had built from an idea of their own. The summer will be spent in the National Parks and in travelling the roads which connect them with San Francisco. It is hoped to glean such facts as we may. Concerning the wild animal life in the parks and then to interpret them for the use of the National Park Service. This project was



Grinnell's student George Melendez Wright, conducted the first survey of the Flora and Fauna of the National Parks



Starker Leopold, UC Professor, Leopold Report, 1963



**UC Berkeley's Policy applications to the field
Female Grizzly No. 399 in Grand Teton NP
(Bear dumps closed 1970)**



**UC Berkeley's Policy applications to the field
Wolves in Yellowstone National Park
(Released in 1995)**



**UC Berkeley's Policy applications to the field
Wildland Fire Use in Sequoia National Park
(started 1968)**



UC Berkeley's Policy applications to the field
Endangered California Condor captive breeding and release
(started 1986)



UC Berkeley's Policy applications to the field

**Elwha River Dam Removal, Olympic National Park
(began 1992 and completed in 2016)**



Pre-drainage Flow



Current Flow



Restored Flow

UC Berkeley's Policy applications to the field
Restoration of water flows in Everglades National Park
(CERP started in 2000 and ongoing)



UC Berkeley's Policy applications to the field

Channel Island Fox, Channel Islands National Park (recovered species and removed from Endangered list 2016)

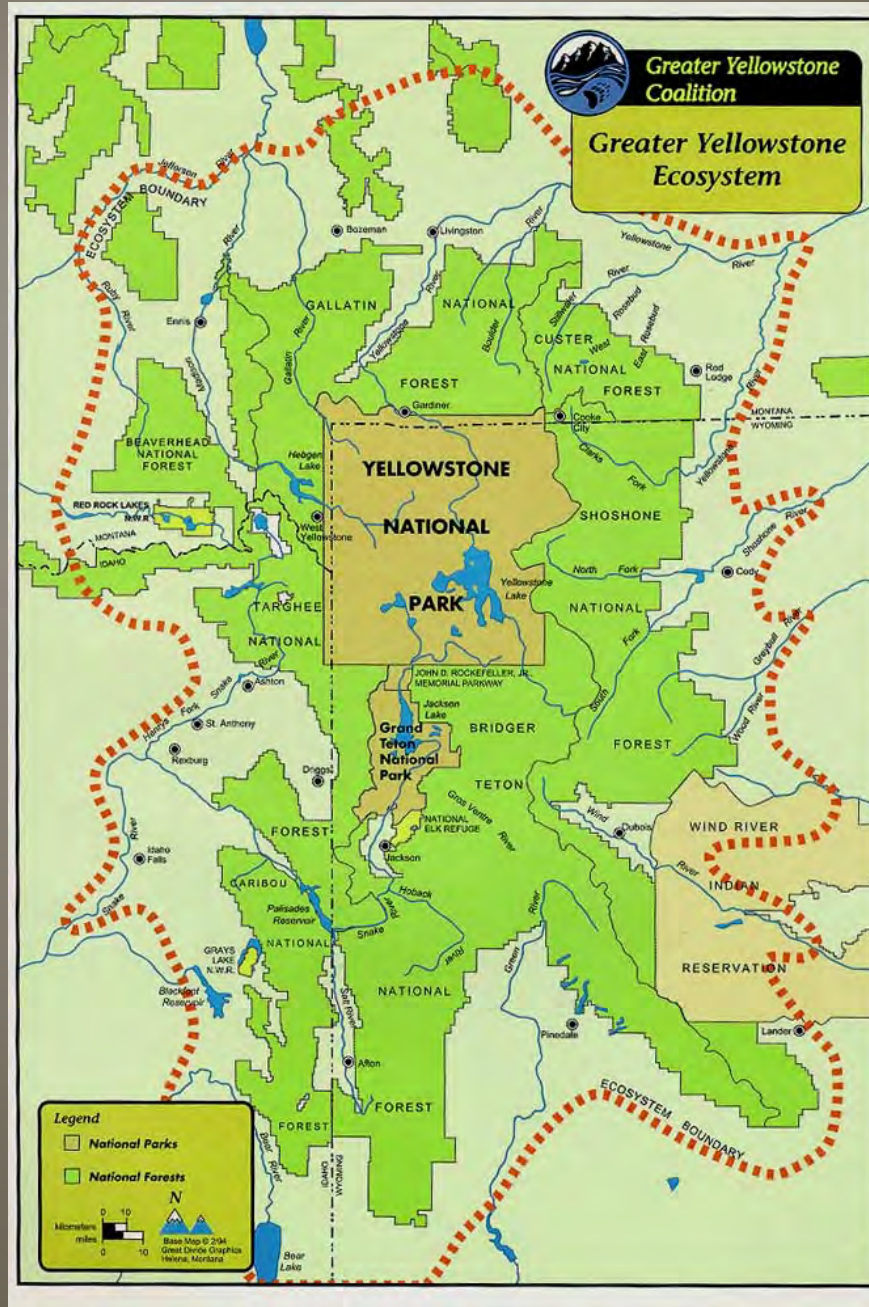
UC Berkeley's Policy applications to the field

**POINT REYES NATIONAL SEASHORE
DRAKES ESTERO WILDERNESS RESTORED 2016**



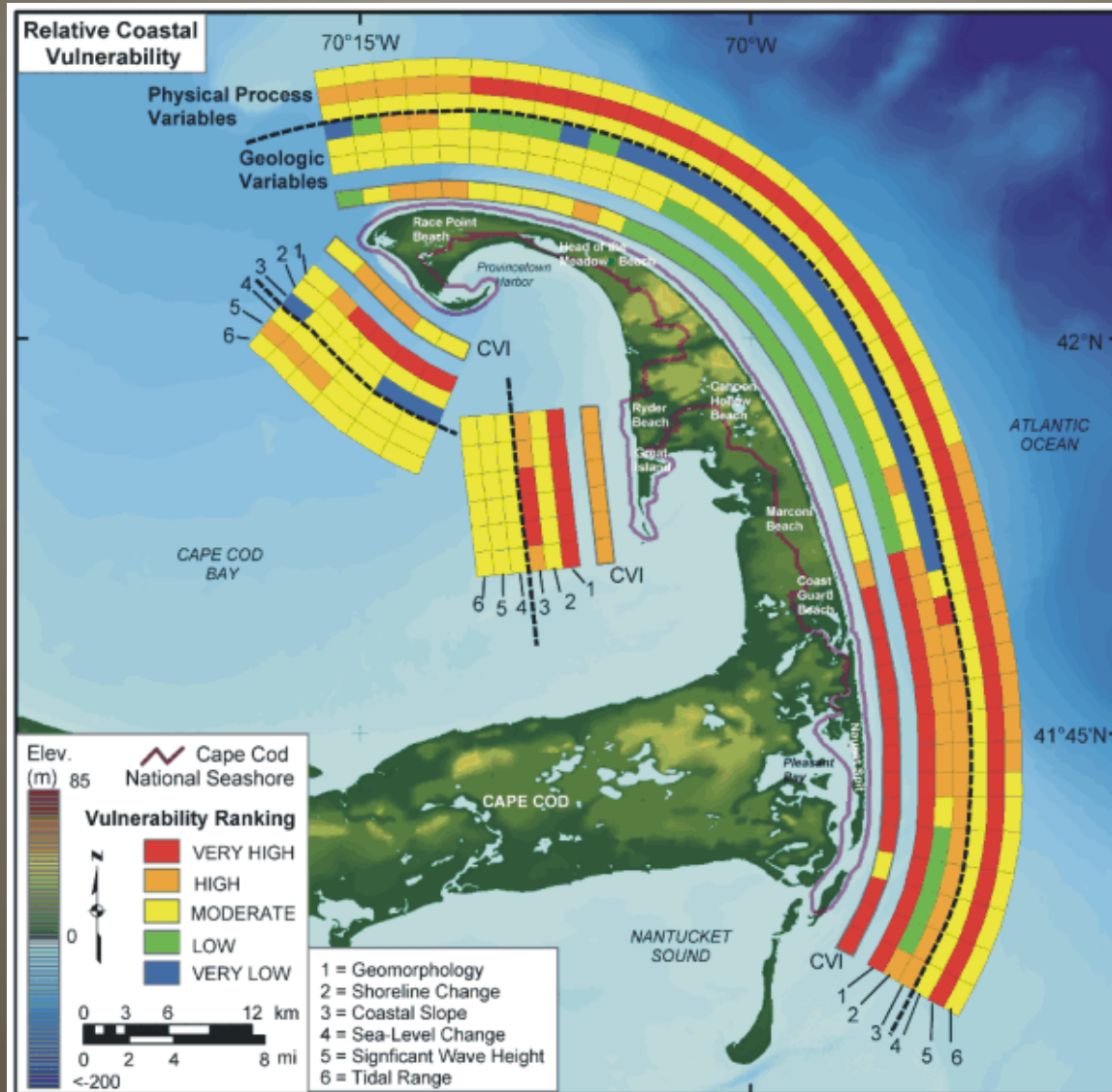
**New Challenges to
be addressed by
the Institute**

**Large Landscape
connectivity in
the Greater
Yellowstone
Ecosystem**



New Challenges to be addressed by the Institute

CAPE COD NATIONAL SEASHORE COASTAL VULNERABILITY ASSESSMENT



New Challenges to be addressed by the Institute

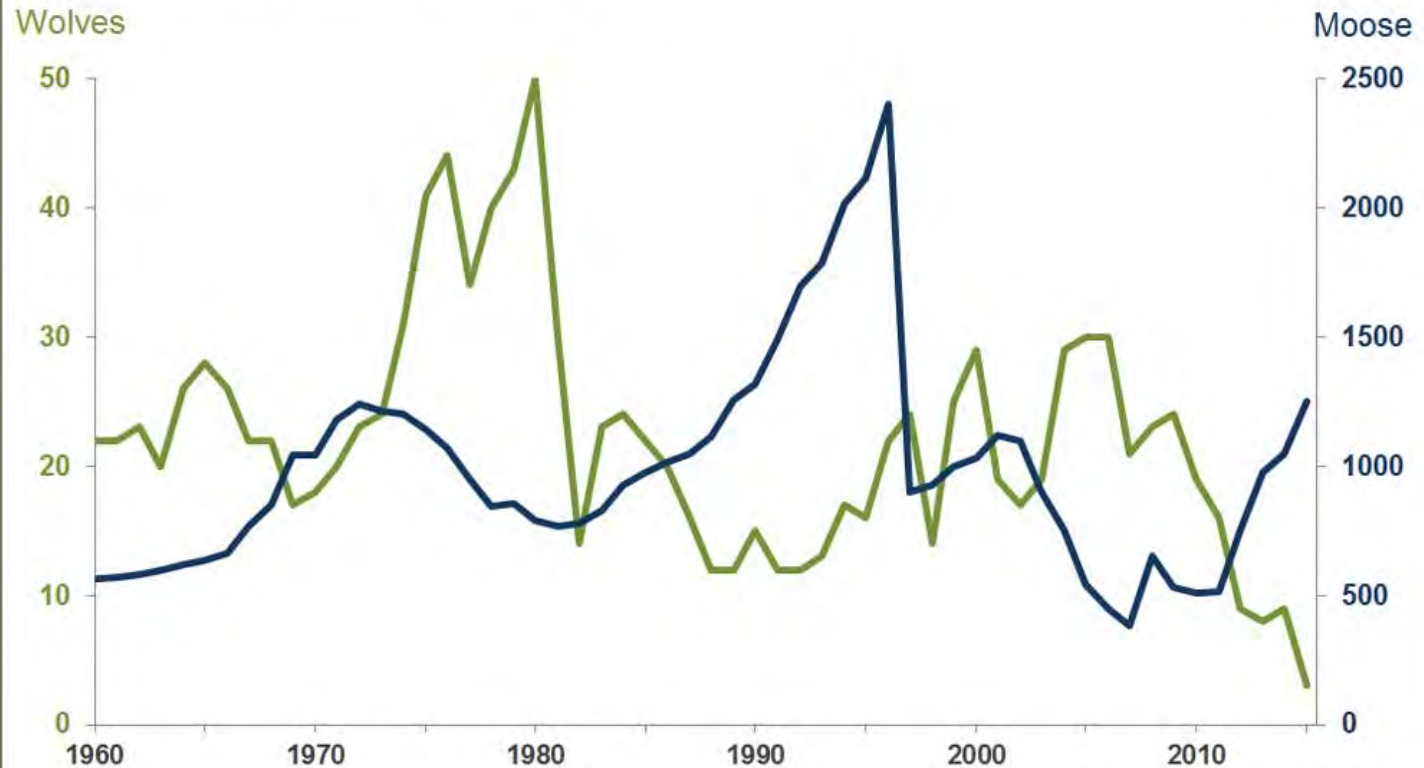
**SEA LEVEL RISE AT FORT JEFFERSON AT
DRY TORTUGAS NATIONAL PARK, FLORIDA**



New Challenges to be addressed by the Institute

DECLINE IN WOLF POPULATION, ISLE ROYALE NATIONAL PARK

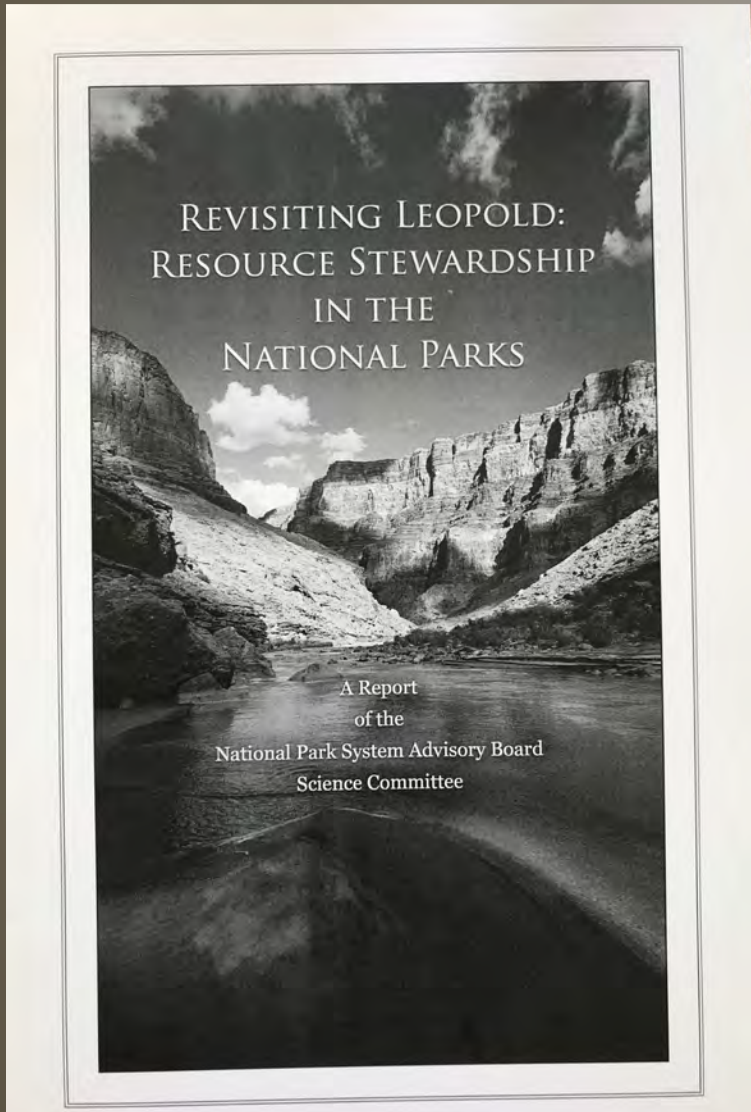
Population Dynamics on Isle Royale



Source: Isle Royale Wolf-Moose Project

Revisiting Leopold Report 2012

“The overarching goal of NPS resource management should be to steward NPS resources for continuous change that is not yet fully understood, in order to preserve ecological integrity and cultural and historical authenticity, provide visitors with transformative experiences, and form the core of a national conservation land- and seascape.”

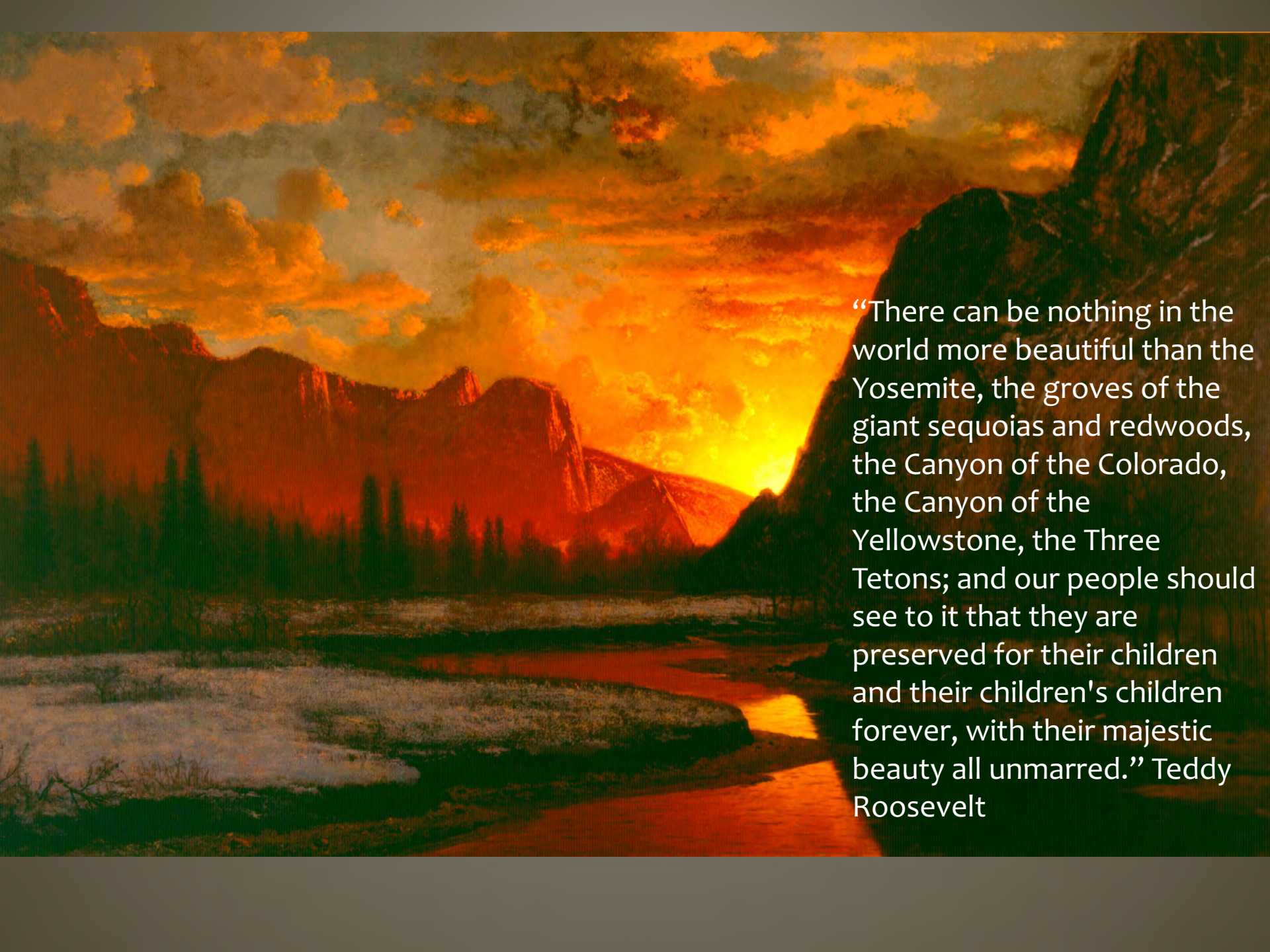




**International
Role and
Challenges to
be addressed
by the
Institute**

United States co-led the Climate Change and the Inspiring the Next Generation Streams at the 2014 World Parks Congress in Sydney Australia (Secretary of Interior Sally Jewell on opening panel)





“There can be nothing in the world more beautiful than the Yosemite, the groves of the giant sequoias and redwoods, the Canyon of the Colorado, the Canyon of the Yellowstone, the Three Tetons; and our people should see to it that they are preserved for their children and their children's children forever, with their majestic beauty all unmarred.” Teddy Roosevelt