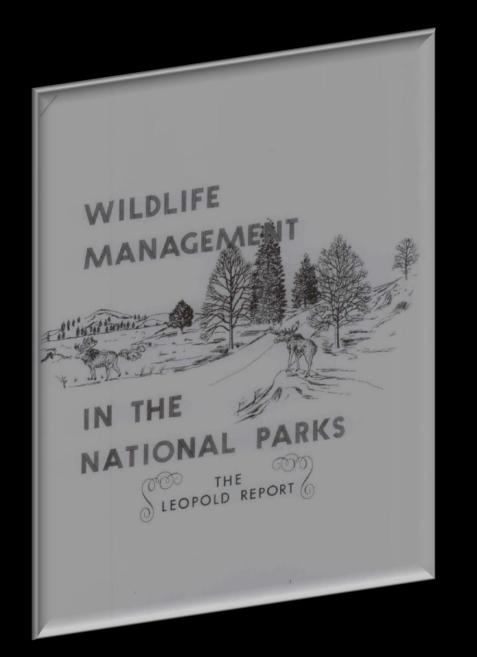


Science, Resource Stewardship, and the Parks

World Parks Congress
Sydney, Australia
18 November
G. Machlis
US National Park Service
Clemson University





"The Leopold Report" 1963

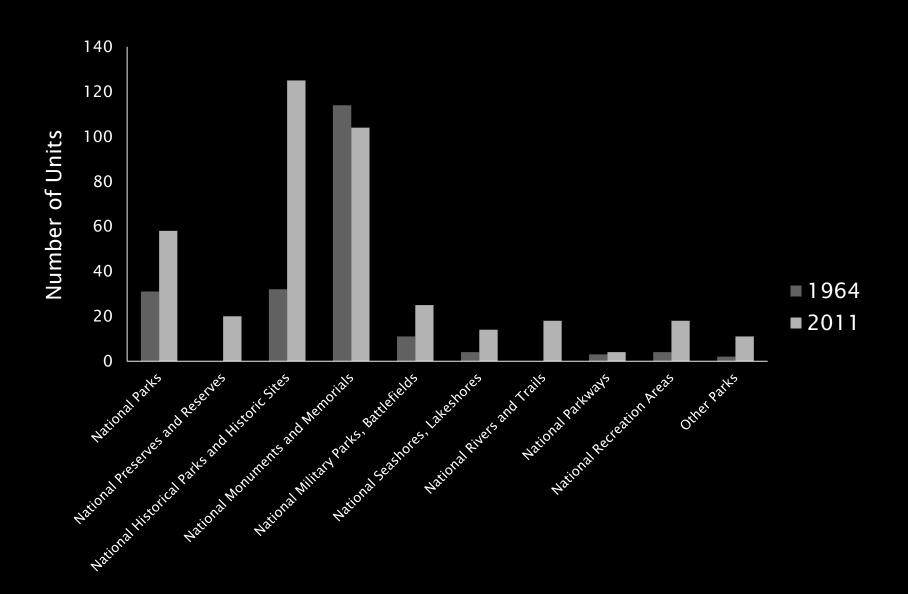


"... A national park should present a vignette of primitive America."

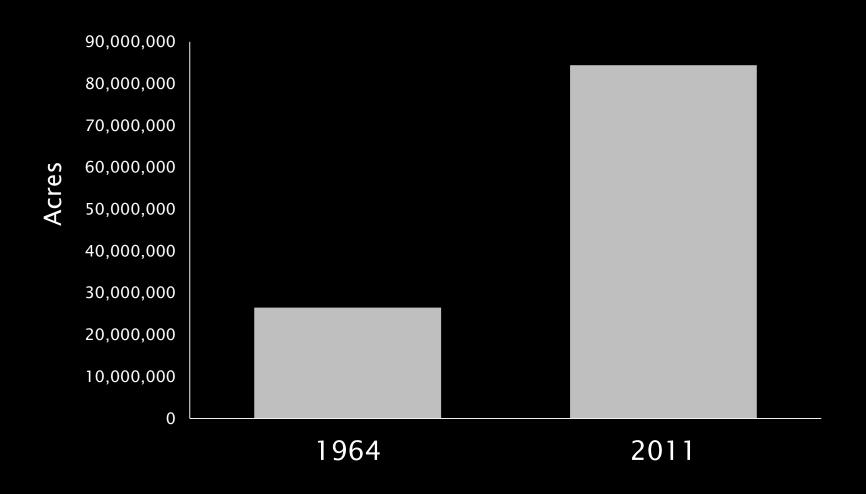
Yet, much has changed since 1963...



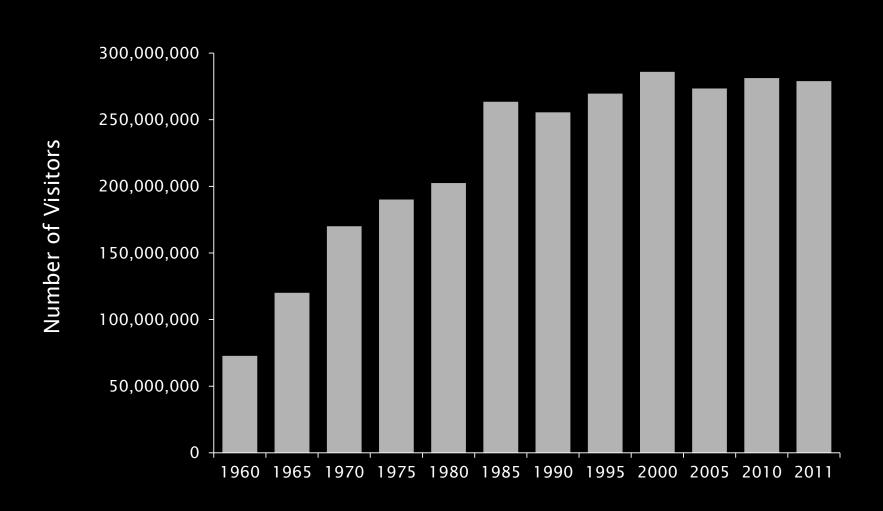
National Park System Units



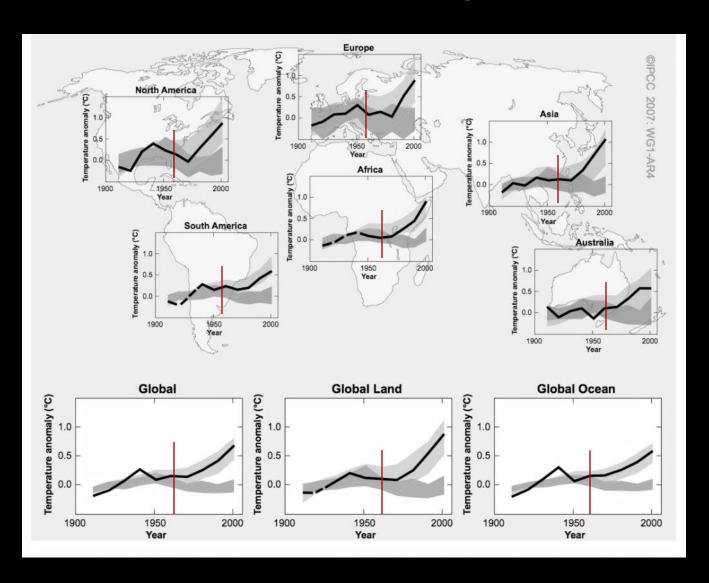
National Park System Acreage 1964 and 2011



Visitors to the National Park System



Global and Continental Temperature Change





1910



1997

Grinnell Glacier Glacier National Park, 1910-1997

Conservation Biology

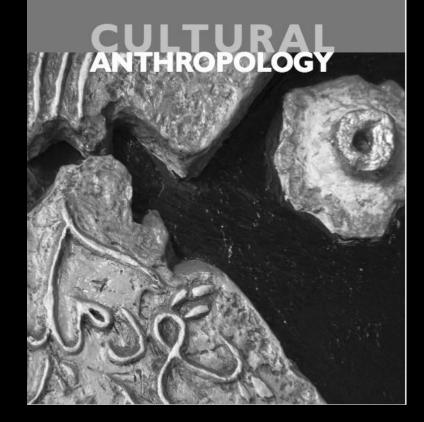




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JOURNAL OF THE SOCIETY FOR CULTURAL ANTHROPOLOGY





"I would ask that the Science Committee undertake a critically important task: to revisit the Leopold Report, and report back to me their findings."

—Jon Jarvis, Director National Park Service 27 June 2011



National Park System Advisory Board Science Committee

Rita Colwell, Chair
Susan Avery
Joel Berger
Gary Davis
Healy Hamilton
Thomas Lovejoy
Shirley Malcom
Ann McMullen
Michael Novacek
Richard J. Roberts
Richard Tapia
Gary Machlis, NPS Liaison

Key Findings of the Committee ...





"Environmental changes confronting the National Park System are widespread, complex, accelerating, and volatile."



"Natural and cultural resource management must occur simultaneously and, in general, interdependently."

Key Recommendations of the Committee ...



"The overarching goal of NPS resource management should be

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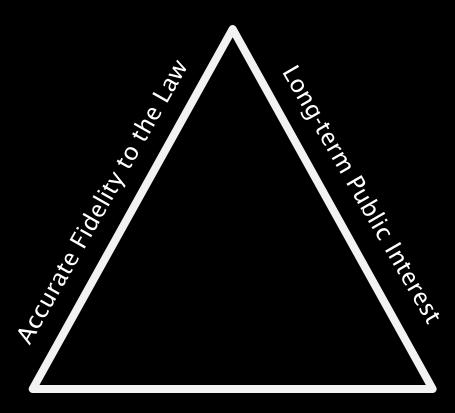
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management should be to steward NPS resources
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understood, in order to preserve ecological
integrity and cultural and historical authenticity,
provide visitors with transformative experiences,

"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."



"The precautionary principle requires that stewardship decisions reflect science-informed prudence and restraint."



Best Available Sound Science

"The NPS needs a specific and explicit policy for park stewardship and decision making based on the best available science, accurate fidelity to the law, and long-term public interest."



The 2016 NPS
Centennial
"...provides a critical
benchmark for
progress in meeting
this enduring
responsibility."



From
Recommendations
to Policy
and
Action



Thanks to:

National Park Service National Park Foundation National Park System Advisory Board and its Science Committee

For more information, contact:

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