

# Climate Monitoring

## Southwest Alaska Network

Kenai Fjords National Park  
Katmai National Park and Preserve  
Lake Clark National Park and Preserve

# Project Recap

**Climate Monitoring for  
Southwest Alaska National Parks:  
Network Design and Site Selection**



**Kelly T. Redmond  
David B. Simeral  
Greg D. McCurdy**

**February 2005**

**Western Regional Climate Center  
Desert Research Institute  
Reno Nevada**

**In Cooperation with  
Great Basin Cooperative Ecosystem Studies Unit  
Task Agreement J8R07040002**

**Report WRCC 05-01**

**PRISM Precip and Temp Models**

**Existing Weather Station Distribution**

**Weather Station Correlation Analysis**

**Persistent Weather Patterns**

**Logistical Constraints**

# Project Recap

Preliminary Site Identification 2006

Met with Park and SWAN Staff

Met with NWS, NRSC, State Climatologist

KATM - ?? sites

LACL - ?? sites

KEFJ - ?? sites

# Project Recap

**Site Surveys - Visited or Overflew**

**KATM - 2006/07**

**LACL - 2006**

**KEFJ - 2006**

# Project Recap

Site Evaluation and Priority Ranking 2007

NWS - Alaska Regional Office

NWS - Anchorage Forecast Center

NWS - River Forecast Center

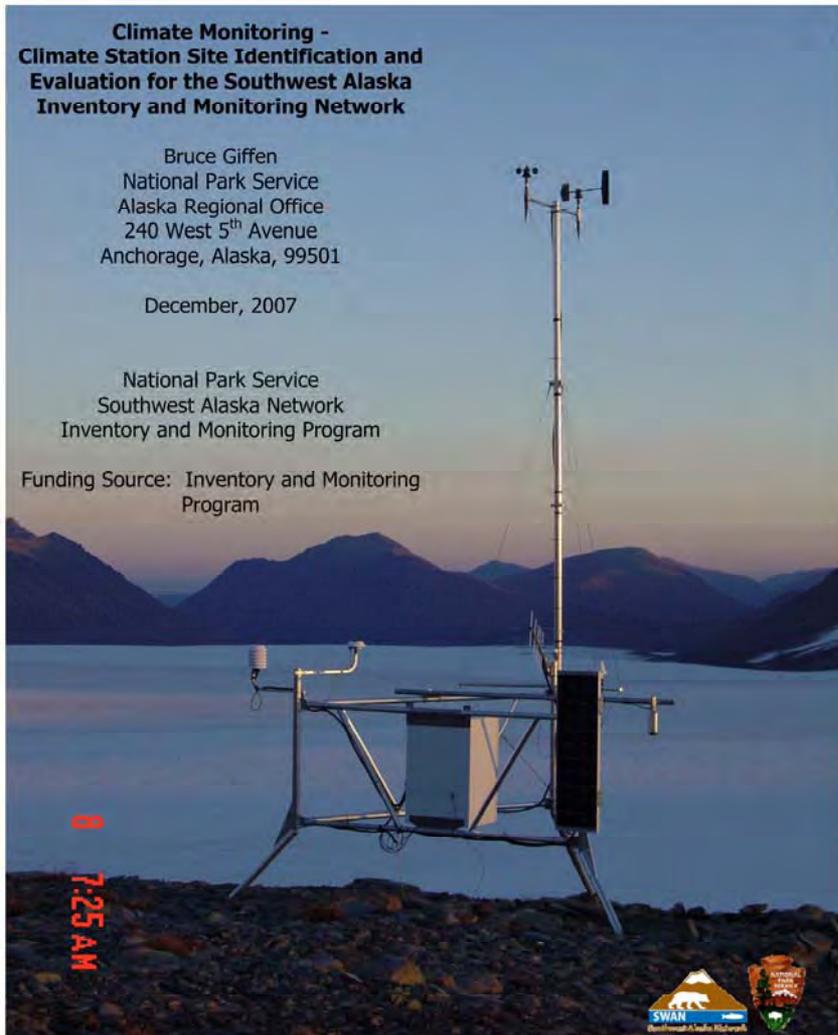
NRCS

Sate Climatologist (UAA)

# Project Recap

Documentation of the entire site selection process

Site identification,  
Site surveys  
Site Evaluation  
Site Ranking and Prioritization



# Project Recap

## Environmental Analysis - 2008

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National Park Service  
U.S. Department of the Interior



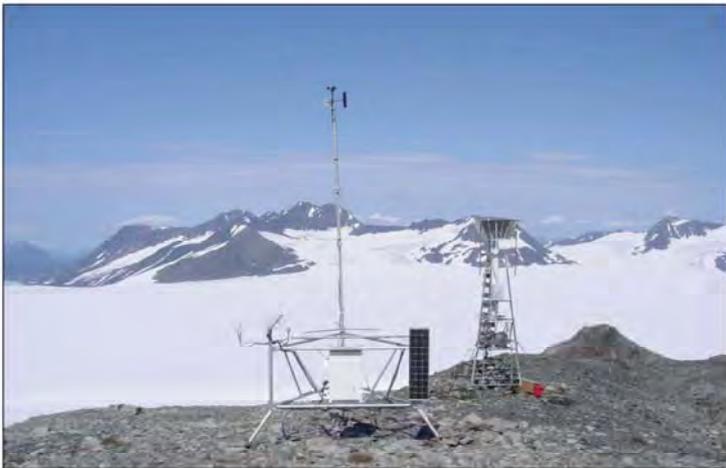
Southwest Alaska Network  
Alaska

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**Climate Monitoring Program in Katmai National Park and Preserve, Kenai Fjords National Park, and Lake Clark National Park and Preserve**

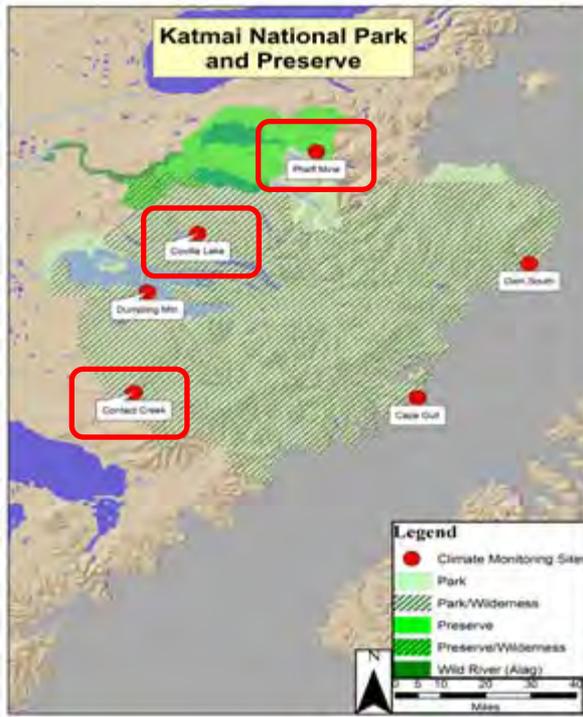
*Environmental Assessment*  
*February 2008*

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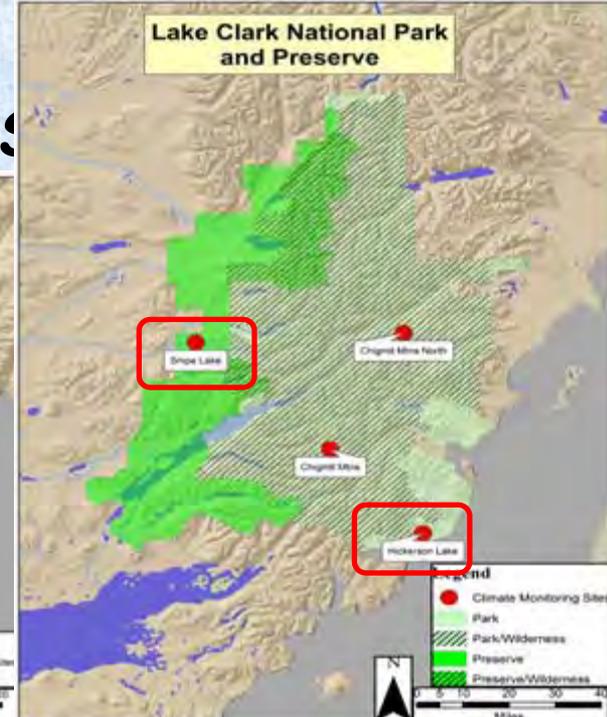
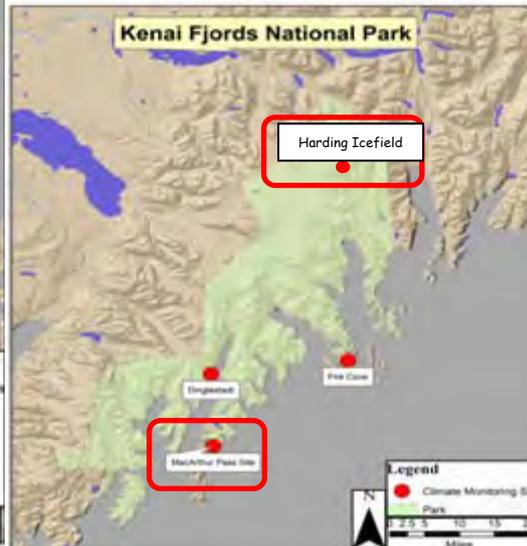


# Project Recap

## Weather Station Deployment – 2008



SWAN Weather Stations



Date	Park	Name	Latitude	Longitude	Elevation (ft)
July 14, 2004	KEFJ	Harding Icefield	60.13247718	-149.78204926	4335
June 3, 2008	KATM	Coville	58.80248079	-155.62891130	1567
June 4, 2008	KATM	Pfaff Mine	59.11090272	-154.83666552	2018
June 6, 2008	KATM	Contact Creek	58.20762668	-155.92247302	657
June 7, 2008	LACL	Snipe Lake	60.61026569	-154.31994676	2315
June 9, 2008	LACL	Hickerson Lake	59.91480125	-152.89251711	1048
June 18, 2008	KEFJ	McArthur Pass	59.47263440	-150.33371662	1266

# Project Recap

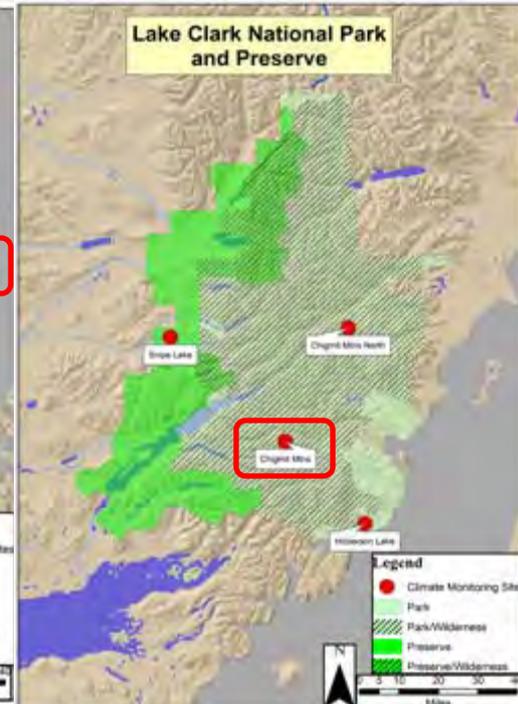
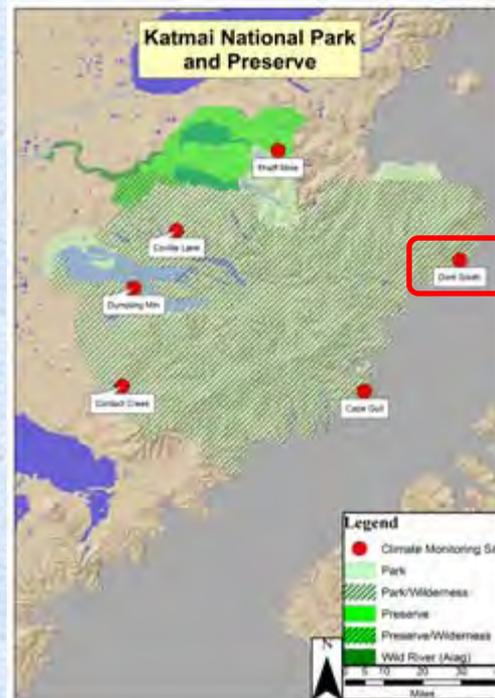
- Maintenance Agreement with RAWs Depot
  - Sensor Recalibration

# Project Recap

- Weather data is hosted by several websites
  - WRCC
  - ROMANS
  - Weather Underground
- Permanent Archive
  - WRCC

# 2009 Plans

- Moving into Operations Mode
  - Weather Station Maintenance
- Weather Station Deployments
  - 2 more



# Glacier Extent Mapping and Protocol Development

## Southwest Alaska Network

Kenai Fjords National Park  
Katmai National Park and Preserve  
Lake Clark National Park and Preserve

- **Dorothy K. Hall**  
NASA / Goddard Space Flight Center
- **Janet Chien**  
NASA / Goddard Space Flight Center
- **Jim Tucker**  
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- **Joe Nigro**  
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- **Bruce A. Giffen**  
National Park Service  
Anchorage, AK