



United States Department of the Interior



NATIONAL PARK SERVICE

Glacier Bay National Park and Preserve

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IN REPLY REFER TO:

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October 28, 2010

Glacier Bay National Park & Preserve Superintendent's Report 2009

Highlights

- **Cruise Ship Services:** The number of cruise ship passengers visiting Glacier Bay reached a record level (422,919). New concession contracts for cruise ship services for 2010 through 2019 were awarded this year, resulting in enhanced visitor services, safety, environmental protection and franchise fee revenue.
- **Visitor Statistics:** Below are the visitor statistics from the 2009 visitor season. The interpretive staff made 694,386 visitor contacts through formal and informal programs, an increase of 3% from fiscal year 2008. In addition to these numbers, there were also attendees at programs presented by guest speakers, other divisions, and the End-of-the-Year slide program that were not included in the total visitor contacts:

Interpretive Presentations:

422,919	Cruise ship	10,984	Tour boat
3,623	Visitor center visits	1,229	Evening programs at Lodge
1,405	Lodge films	29,272	Marine Wildlife Watch
756	Forest Loop Walk	263	Morning hike
1,998	Education & Outreach		

With our increase in seasonal employees through the Centennial Challenge, we were able to maintain our staffing of the lodge visitor center, and offer the morning hike for the entire summer for the first time in several years.

- The Management staff helped facilitated a week-long meeting with an international delegation from Francisco Coloane National Park in Chile and a representative from the International Affairs Office from the National Oceanic and Atmospheric Administration



in August. The delegation met their objectives of gathering information to develop a plan for their new park and marine protected area. Our Spanish-speaking staff provided a conducted activity along the Forest Loop Trail, tour boat interpretation, Spanish printed materials, and informal translation for the visiting dignitaries throughout their visit.

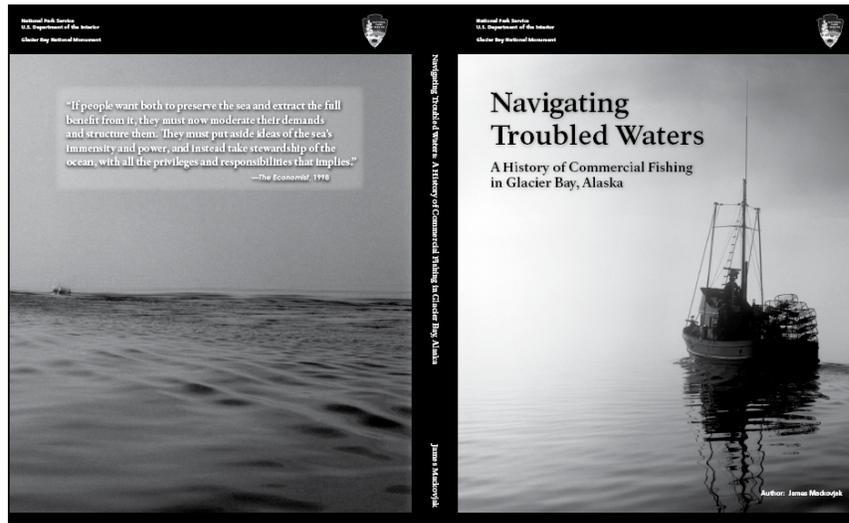
- Of the 400 Government Performance and Results Act, Visitor Survey Cards that were distributed during the summer, 118 were returned and analyzed. Approximately 97% of respondents were satisfied with park facilities, services, and recreational activities. In addition, 96% of them understood and appreciated the significance of Glacier Bay National Park.
- Chief of Interpretation Kris Nemeth received the prestigious regional Freeman Tilden Award for a suite of films produced in partnership with Princess Cruises on Glacier Bay.
- Resource Management Staff provided a variety of programs and activities for Gustavus School students, including a discussion of bear genetics and evolution, an exotic plant “reading group”, a marine learning project, and serving as judges for the annual Gustavus School science fair.
- Succeeded in securing final funding for the Gustavus Dock Project, and worked with Alaska Department of Transportation (ADOT) to move the project to final bid and beginning of construction. This culminated a four year process and achieved the Alaska Region’s top priority transportation project. In the fall of 2005, ADOT in partnership with the City of Gustavus and the park signed a cooperative agreement to seek full funding to replace the deteriorating city dock that has served the community since 1963. The National Park Service (NPS) interest was to preclude development of a city dock within the park boundary at Bartlett Cove, an option that had been pursued by a previous state administration. Each of the two partners – the State/City as one partner and NPS as the other – agreed to seek 50% of the needed funding, or \$10.55 million each (in 2005, the City obtained a \$2.55 million earmark through Senator Murkowski’s office, the first allocation of funds toward the project). Through two funding grants in 2006 and 2007 under the Department of Transportation’s Alternative Transportation for Parks and Public Lands (ATPPL), the NPS was able to contribute \$4.2 million to the project. In late 2008, the state contacted the park and advised that unless the NPS could contribute 50% of the needed \$14.775 million in funding, the state would drop its funding pool for the project. Through the Alaska Regional Office, the NPS was able to contribute an additional \$3.5 million via the Transportation in Parks Program (TRIP), bringing the total NPS contribution to \$7.7 million. A groundbreaking was held on June 19, 2009. Wayne Howell, park Management Assistant, and Paul Schrooten, Alaska Regional Office Transportation Program Coordinator were vital in securing the needed NPS funding to bring the project to fruition.



Gustavus Mayor Bill Unkel, DOT&PF Commissioner Leo von Scheben, Glacier Bay National Park and Preserve Superintendent Cherry Payne and DOT&PF Southeast Regional Director Gary Davis

- We planned and participated in trips Up Bay with Hoonah High School students, native elders, Hoonah Indian Association, Huna Heritage Foundation, and NPS personnel. Judith Bitner of the State Historic Preservation Office (SHPO) was on board. She witnessed the park for the first time seeing the Huna sacred sites. Cherry Payne, Ken Grant, Wayne Howell, David Nemeth, Craig Smith, and Steve Schaller were also on board and were warmly welcomed by the Huna elders and students. We also had nine interpretive staff who contributed to the success of this day. This year, the high school students experienced place-based traditional knowledge from elders through Glacier Bay stories, songs, and dances wearing sacred regalia while sailing to the face of Margerie Glacier. Middle school students visited Bartlett Cove to gain a personal connection with their traditional village site.
- Park biologists responded to and/or maintained documentation on 17 marine mammal strandings, including ten sea lions (seven dead and three entangled), two harbor seals, one harbor porpoise, three sea otters and one humpback whale. Park whale biologists maintained records of near-miss collisions between whales and vessels. During 2009 there were at least 20 near misses that involved cruise ships and two that involved smaller vessels.
- Resource Management staff provided a variety of programs and activities for Gustavus School students, including a discussion of bear genetics and evolution, an exotic plant “reading group”, a marine learning project, and serving as judges for the annual Gustavus School science fair.
- The park held a Cruise Ship Science Symposium and Cruise Ship Science Advisory Board meeting in Seattle to review results of scientific studies designed to help evaluate environmental and visitor experience effects of cruise ships.

- Moved the final draft of James Mackovjak’s history of commercial fishing in and around Glacier Bay through peer review and into final format. Wrote a contract for design and layout of the final document, and pending publishing contract approval, anticipate volume to be in print by late summer 2010.



Back and Front Covers of ‘Navigating Troubled Waters’

- The Park’s annual recycling diversion rate increased to 59.4% in 2009 from 51.1% in 2008.
- The staff of the Visitor Information Station was selected as this year’s Alaska Region recipients for the Andrew Clark Hecht Memorial Public Safety award for the extraordinary safety contributions to public safety.

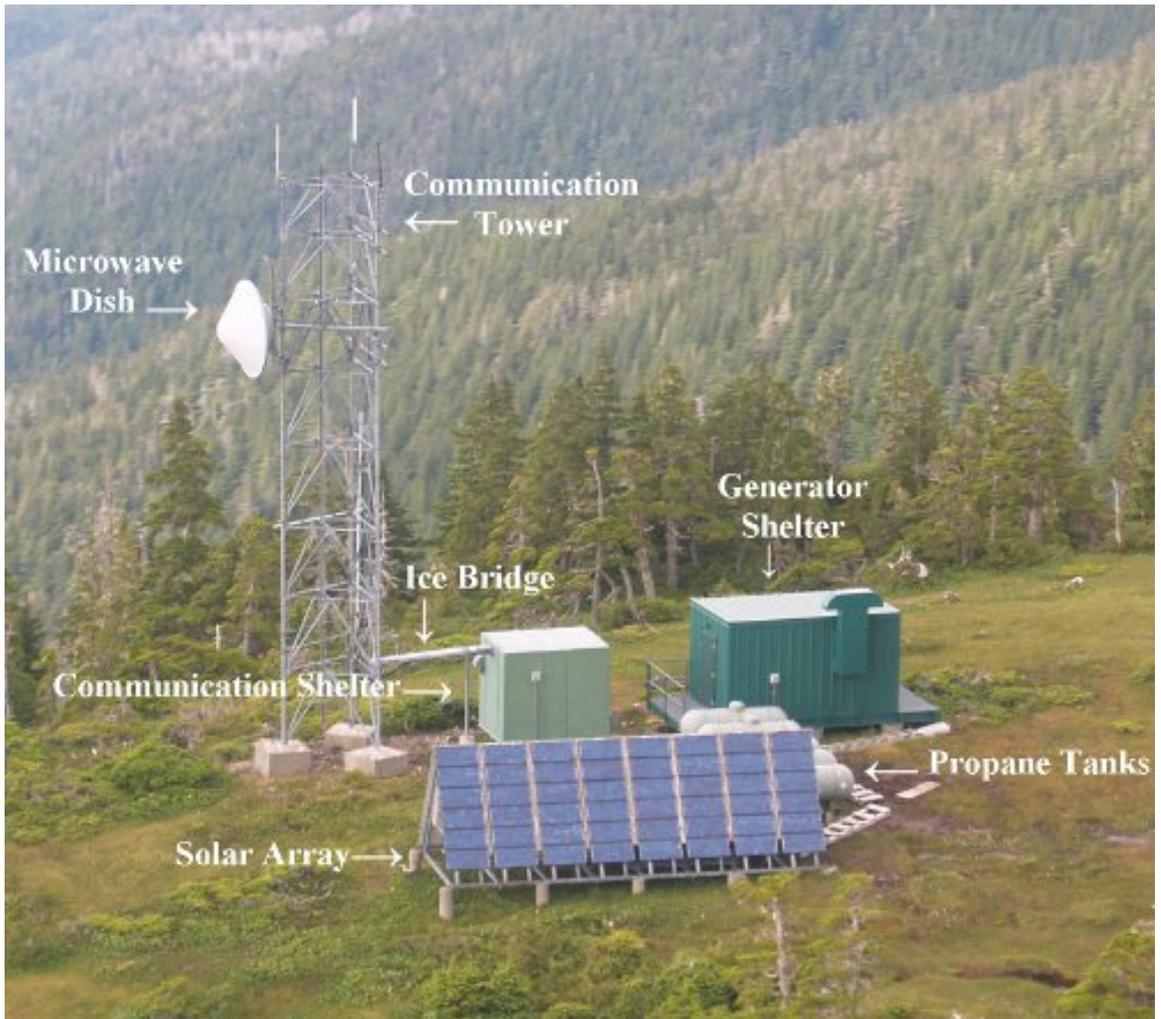
Safety

- All division employees consider safety a top priority, which is reflected through their continued attention to both employee and visitor safety. Interpretive permanent staff prepared and presented three modules for the two-day parkwide “Operational Leadership” training in March. The interpretive division conducted formal safety training during seasonal training, ranging from interactive classroom sessions to marine safety training including experience in the water wearing immersion suits. Safety drills continued on the Serac throughout the summer. Staff carefully reviewed operations aboard vessels and created a new Job Hazard Analysis for shore excursions and kayaking duty on the American Safari tour boats.
- In collaboration with the Safety Office, the ranger division also helped plan and develop the two-day safety course which all park employees attended. Topics followed a national based curriculum focused on operational leadership, accident causation, performance, situational awareness, decision making, effective communications, and assertiveness. The GAR model became a regularly used procedure from this training. The ranger division had no reportable injuries.
- The ranger division took a leadership role in many critical park safety operations including HAZWOPPER training, marine safety, fire brigade staffing, fire extinguisher maintenance, and other employee training.
- The Bear Biologist provided bear safety training for employees, concession employees and visitors on multiple occasions. A two-day Bear hazing and Aversive Conditioning course was provided to interested employees June 4-5.
- This division excels in providing training and operational support for a myriad of programs which sustain other divisions operations. Examples from the past year include:
 - Staff facilitated and scheduled a B-3 Aviation Safety Course.
 - Staff instructed numerous CPR and First Aid courses for other park employees and the community of Gustavus.
 - A search and rescue ropes course was planned and executed by Todd Bruno. These courses have proven to be helpful to the permanent staff as well as the seasonal staff.
 - Staff conducted and co-taught Motorboat Operator Certificate Course for park personnel to meet operational needs of Resources Management and Resource and Visitor Protection Divisions.
 - Staff coordinated a two day kayak safety training course for park staff.
 - We initiated efforts to re-establish the park’s Spill Prevention I L Team. The team will support planning efforts in the event of an oil spill incident that may occur in Glacier Bay.
 - Staff taught the firearms portion of the annual Bear Aversive Conditioning course for the park.
 - Jim Capra and Wendy Bredow attended SET training in Anchorage.
 - Staff taught taser, firearms, armored weapons, and defensive tactics at both the regional and Glacier Bay refresher courses.
 - Staff co-taught a two-day Operational Leadership Safety program for Glacier Bay.
 - Dry Bay staff taught All Terrain Vehicle training to operators of ATV’s in Dry Bay.
 - All supervisors attended a one day supervisory course in Juneau.

- All Visitor Use Assistants completed Incident Command System 100, 200, and 800.
- The Chief Ranger and Supervisory Visitor Use Assistant attended a week long Special Use Permits course in Anchorage.

Rescue 21

- In 2008, the park was approached by the U.S. Coast Guard which has been tasked with developing a “marine 9-1-1” system along the coast of Alaska that allows emergency communications via the marine band VHF system. Under ANILCA, Section 1310 (b), “The establishment, operation and maintenance within any conservation system unit of new air and water navigation aids and related facilities...shall be permitted...after consultation with the Secretary...in accordance with such terms and conditions as may be mutually agreed in order to minimize the adverse effects of such activities within such unit.” In particular, there is a large communications gap for the Fairweather Fishing Grounds which currently has limited or no coverage. After the 2008 grounding of the *Spirit of Glacier Bay* at Tarr Inlet where VHF and park radio communications are non-existent, the park was interested in improving vessel communications in Glacier Bay proper. In August, a general agreement was signed between the U.S. Coast Guard and the Alaska Regional Office to collaborate with the environmental compliance process. One site outside of wilderness was identified in the Deception Hills which would address the need for the Fairweather Fishing Grounds, and two potential sites in Glacier Bay proper (Willoughby Island and Beartrack NPS repeater site) were identified—both in designated wilderness. If a right-of-way is granted for one or two sites, the NPS will collocate its repeaters to the Rescue 21 tower. This is apparently the first application of the 1310(b) section of ANILCA in a national park system unit.



Typical Rescue 21 Installation

Superintendent Cherry Payne

Dry Bay

- Several meetings were held with the Alaska Regional Office and the DOI Solicitor-Alaska relative to jurisdiction/boundary questions in the intertidal area in the East Alsek River that were raised after the completion of the Dry Bay Off Road Vehicle Use Plan (March 2007). The State asserts the estero of the East Alsek River is outside the boundaries of the Preserve and therefore NPS regulations do not apply in that area. Contributing to the issue is a 1992 Federal Register notice in which the NPS set boundaries for its lands within the state, and did not include the estero within the boundary. However, the maps used by Congress in the passage of ANILCA closed the mouths of bays and estuaries, and subsequent maps produced by the NPS just a few months later also showed the boundary headland to headland, thereby including the East Alsek estero within the park boundary. ANILCA Section 103(a) also provides, “In the event of discrepancies between the acreages specified in this Act and those depicted on such maps, the maps shall be controlling...” In April, 2009, the Regional Director formally requested a Solicitor’s Opinion on the issue.
- A Dry Bay permittee advanced a request for a “habitat permit” to the State for off-road vehicle use in the East Alsek estero in an area that the 2007 Dry Bay Off Road Vehicle (ORV) EA had closed. Park and regional office staff collaborated with the state extensively during 2009; the permit was issued for one year only (to expire December 31, 2009), with requirements for permit compliance as a condition for a new permit. Some resource damage and evidence of illegal ORV use in the intertidal and adjacent park lands was documented during the season. While the NPS and the State worked hard to collaborate, different mandates and policy ultimately will preclude seamless management of the two agencies’ lands.



Dry Bay: post indicates park boundary; note ORV tracks on park lands (right side of photo)

Legislation

- In April, new legislation (S. 881/H.R. 2099) was introduced in 2009 by Senator Lisa Murkowski and Representative Don Young to replace HR 3560, “Southeast Alaska Native Land Entitlement Act” which had been introduced by Congressman Young in 2007. The original bill called for the removal of eleven traditional and historic sites within Glacier Bay National Park that had been omitted from eligible land selection in the Alaska Native Conservation Lands Selection Act (ANCSA), 1971. The new version called for cooperative management of said sites between Sealaska, village and urban ANCSA corporations, and relevant tribes. The bill also amends the National Historic Preservation Act to remove State Historic Preservation Officer oversight of activities related to traditional and historic sites on native corporation lands, and would designate native corporation lands as “tribal lands.” Meetings were held with DOI officials and the Hoonah Indian Association (HIA), with whom the park has a government-to-government relationship about park concerns and policy implications. In June, the HIA voted to oppose the bill. In October, DOI testified in opposition to the bill before the Senate Energy and Natural Resources Committee. At the same hearing, Senator Murkowski stated that she supported the removal of all language related to Glacier Bay National Park from the bill. The bill is controversial within Southeast Alaska, and efforts to resolve concerns continued through the end of the year.

Legislative Affairs

- In September, the superintendent made courtesy visits to key staff in Washington, D.C., to brief them on park issues. The visit was facilitated by the Special Assistant to the Regional Director, Mike Tranel. Visits and introductions were with:

Washington Office, National Park Service

- Legislative Affairs (Don Hellman): Gull Egg Draft Legislative Environmental Impact Statement; Sealaska legislation (S. 88/H.R. 2099)
- Visitor and Resource Protection (Phil Selleck): process to develop legislation/regulations

Washington Office, Department of the Interior

- Special Assistant, Immediate Office of the Secretary (Kim Elton)
- Office of Legislative Counsel (Wendy Fink)

Delegation

- Senator Mark Begich (Michael Johnson)
- Senator Lisa Murkowski (McKie Campbell, Kaleb Froelich, Chuck Kleeschulte)
(Note: these staffers also work on the Republican staff for the Senate Committee on Energy and Natural Resources.)
- Representative Don Young (Eric Elam)

US House of Representative Committees

- Committee on Natural Resources, Subcommittee on National Parks, Forests and Public Lands (Republican Staff: Casey Hammond, Jim Streeter; Democratic Staff: David Watkins, Leslie Duncan)

US Senate Committees

- Committee in Energy and Natural Resources (Democratic Staff: David Brooks, Kira Finkler, Bevinetto Fellow Mike Gautier; Republican Staff: McKie Campbell, Kaleb

Froelich, Chuck Kleeschulte)

Other

- State of Alaska, Office of the Governor (John Katz, Mark Robbins)

Government-to-Government Consultation

- A tribal consultation was held with the Hoonah Indian Association on June 11, 2009; many more informal meetings occurred throughout the year.

Native Corporations

- In February, a telephone meeting was held with the Executive Vice President of the Seasaska Corporation (Rick Harris) to discuss the then-pending “Southeast Alaska Native Land Entitlement Act” legislation.
- Several informal telephone discussions were held with the Chief Executive Officer (Bob Wysocki) of the Huna Totem Corporation (HTC) related to the NPS/HTC partnership and efforts to construct a tribal house in Bartlett Cove. During the year, Mr. Wysocki left his position and Lawrence Gaffney replaced him. (An introductory meeting was held in early January, 2010 between the NPS and Mr. Gaffney.)

Annual Vessel Allocation Decision

- The decision for cruise ship entry levels for 2010 was made on July 1, 2009. Total number of cruise ships is to remain at 153 total entries into Glacier Bay proper during the months of June-July-August, and 92 in May and September until results of on-going studies assessing impacts of cruise ships on park resources and visitors are received. Two comments were received during the public scoping period.

Gull Egg LEIS

- In response to the Glacier Bay Resources Management Act of 1999, the PS was directed to assess whether or not Glaucus Winged Gull Eggs can be collected by the Huna Tlingit without impacting the gull population. If so, the Secretary is to make a recommendation to Congress. The project had struggled for several years, and was re-energized in 2008. In late December, a Draft Legislative Environmental Impact Statement (LEIS) was released for public comment, with 27 written comments received over the 78-day comment period. Public meetings were held in Anchorage, Juneau, Gustavus and Hoonah during the comment period. Over the summer, the interdisciplinary team met to revise and amend alternatives based on the comments, and the draft document was completed in the fall. The final LEIS will be released sometime in the spring or early summer of 2010.

Personnel Changes

- General Maintenance Operations Supervisor Bob Barte entered on duty in April.
- Utilities Supervisor Mark Ortega entered on duty in January.
- Scott Vantrese provided FMSS onsite assistance to both Klondike Gold Rush NHP (KLGO) and Sitka NHP (SITK).
- Judy Alderson from AKSO returned to the park for a Conflict Resolution Plus (CORE+) follow-up session.
- An agreement between three parks was finalized to establish a position in GLBA that will be responsible for FMSS leadership at GLBA, KLGO, and SITK.

- The recently vacated GS-11 Supervisory Park Ranger position was filled by Melanie Heacox who arrived in January and replaced Tracy Ammerman who transferred to Midway Atoll NWR.
- The newly created GS-11 Supervisory Park Ranger Position was filled by Steven Schaller who arrived in late February from the US Forest Service.
- Fritz Koschmann was rehired as a permanent small craft operator for the M/V Serac. Later in the spring, the Serac operation was transferred from the Interpretive Division to the Concessions Division.
- Administrative Officer Sharyl Cyphers transferred to Chickasaw National Recreation Area in May. Sue Bruns, Administrative Officer from Homestead National Monument of America completed a detail from June 8 to July 2nd; she was followed by Justin Unger, from the Washington Strategic Planning Office who closed out the fiscal year; followed by Budget Analyst Dawn O'Sickey from the Grand Canyon, who was detailed into the position until December. Later that month, Regional Budget Officer Sheri Barry was hired back into her former position as Glacier Bay Chief of Administration from the Alaska Regional Office.
- Facilities Manager Mark Foster transferred to Buffalo River in June. Tom Ronay, Facilities Maintenance Management System Coordinator for the Pacific West Region served a one-month detail assignment in the park. He was followed by Ken Hutchison from Wrangell-St. Elias National Park and Preserve who was detailed for two months. Ken was subsequently hired into the position in December. Joe Durrenberger from the Alaska Regional Office filled in for two weeks in November before Ken actually entered on duty. During that time, Joe served as Contracting Officer's Technical Representative on a project to replace anodes on the Bartlett Cove public use and fuel docks, a project funded under the American Recovery and Reinvestment Act. Also serving terms as acting Facility Manager were GLBA employees Mark Ortega, Jake Ohlson, Mary Jo Sellards, and Scott Vantrease.
- Budget Technician Bobbi Foster transferred to Buffalo River in June.
- Martha Tatum was hired for the Budget Technician position in November.

Employee training

- Mark Ortega and Bob Barte completed Supervisor training.
- Mark Foster, Jake Ohlson, and Mark Ortega completed Contracting Officer's Technical Representative (COTR) training.
- Mary Jo Sellards attended Introduction to Park Program Management training.
- Scott Vantrease was enrolled in the service-wide Facility Maintenance Software System (FMSS) National Trainers Development Program.
- The six person Park Confined Space crew was trained and recertified in September.
- Trails worker Matt Cahill attended the Alaska Statewide Trails Conference and presented two sessions at the Trails Best Practices Workshop in Tucson, AZ, in November.
- Utility Systems Repairer Operator, Keith Cozby, received Class II State of Alaska Department of Environmental Conservation (ADEC) Water Treatment Certification on in December.

Personnel Actions

- During the summer, two significant personnel actions resulted in the removal of two Glacier Bay Seasonal Employees serving as seasonal Law Enforcement Officers in the Division of Resources and Visitor Protection.

- After the park received allegations of Sexual Harassment and creating a Hostile Work Environment, the Criminal Investigations Division at the Alaska Regional Office conducted an investigation at the request of the Office of Professional Responsibility (Washington Office), during which time the individual’s seasonal law enforcement commission was suspended. After the investigation determined that the allegations had merit, the commission was revoked by the Superintendent and the individual was subsequently removed from duty. The investigation revealed a similar pattern of behavior at other parks where the individual had previously served as a seasonal commissioned ranger. The Washington Office sustained the removal and the permanent revocation of Law Enforcement Authority.
- The second case involved allegations of Sexual Assault against two women, both employees of Glacier Bay National Park. This matter involved direct involvement with the Office of Professional Responsibility and the Alaska State Troopers Criminal Division. The internal investigation was conducted parallel to the criminal investigation; the latter revealed that there was sufficient evidence to seek an indictment from a State of Alaska Grand Jury. Subsequently, an arrest warrant was served by the Alaska State Troopers and the National Park Service, and the individual was placed in custody to await arraignment. Upon arrest, the Law Enforcement Commission was suspended and the employee removed from duty due to inability to complete the tasks assigned as a Law Enforcement Officer. The Law Enforcement commission is suspended until the criminal case is adjudicated and the internal investigation concludes.

These incidents resulted in exercising guidance in the newly revised Director’s Order 9 and the associated Reference Manual, and the engagement of the Office of Professional Responsibility in Washington.

Science Symposium

- The Vessel Quota and Operating Requirements Environmental Impact Statement (VQOR EIS) Record of Decision (2003) called for the park to establish an independent Science Advisory Board to make recommendations for studies in order to develop criteria before seasonal-use day quotas for cruise ships are increased. Accordingly, a board was appointed in 2005. The Board made recommendations in the four broad study areas of physical, biological, cultural, and social (visitor experience) sciences. Research projects commenced, with most of the studies concluding in 2009. In December, the park convened a meeting that brought together the Science Advisory Board members, principal investigators, and National Park Service scientists and managers to review the results of the first suite of studies. Based on the presentations from the researchers, the Board evaluated the potential impacts of cruise ships and compared these to those impact topics originally analyzed in the VQOR EIS. Their assessment indicates that the original impacts analyses from the VQOR EIS remain accurate. Areas that warrant additional research include wildlife disturbance, soundscape, and visitor experience.

Topic	VQOR EIS Impact Level	SAB Impact Level
Soundscape	Moderate	Moderate
Air Quality	Moderate	Moderate
Water Quality	Moderate	Negligible
Threatened & Endangered Species: Humpback Whales	Moderate	Moderate
Threatened & Endangered	Moderate	Minor to Moderate

Species: Steller Sea Lions		
Marine Mammals: Harbor Seals	Moderate	Moderate
Marine Birds and Raptors	Moderate	Moderate
Kittlitz' Murrelets ¹	Not analyzed	Minor to Moderate
Coastal/Shoreline Environment and Biological Communities	Minor	Minor
Cultural Resources	Moderate	Moderate
Visitor Experience	Negligible to Moderate	Minor to Moderate
Wilderness	Moderate	Moderate

¹ Added due to a pending Endangered Species Act listing determination by the US Fish and Wildlife Service

Miscellaneous

- On August 10, the park hosted US Coast Guard Captain of the Port Melissa Bert and Executive Officer Lt. Cdr. Vivian Louie. They boarded the MS *Diamond Princess* with senior park staff and were given an orientation to contractual and operational requirements for cruise ships operating in the park. The NPS delegation disembarked at the end of the day and the Coast Guard delegation remained on board the ship to its next port of call.
- In August, the Superintendent was appointed to the National Wilderness Leadership Council, filling the position of Alaska superintendent representative. At the semi-annual WLC meeting in Estes Park, she was appointed co-chair.

Management Assistants

Activities of Management Assistant Ken Grant

Central Council Tlingit and Haida Indian Tribes of Alaska (CCTHITA)

- Attended the General Assembly in Juneau on April 17-18. This is an annual event consisting of tribes and tribal members throughout Southeast Alaska, Anchorage, Washington, and California. A significant event was reported on which was the signing of a Memorandum of Understanding (MOU) between CCTHITA and Sealaska Corporation. The basic purpose of the MOU is to enhance economic opportunities for both entities.

Council of Traditional Scholars, Sealaska

- April 20, attended the Council of Traditional Scholars (CTS) in Juneau, Alaska. The topic of this meeting was “Tlingit Clan Trust Property Law and Dispute Resolution”. The meeting was conducted in the Tlingit language. This meeting was to codify principal tenets of traditional Tlingit clan property laws. The purpose of the document is to:
 1. restore and promote continuity in traditional Tlingit culture;
 2. maintain clan ownership of clan property;
 3. encourage healthy succession of leadership within clans; and
 4. foster improved relations among and within clans.
- As for clan property disputes, a dispute resolution board is proposed. This document is in its formative stage and will need more work.
- On April 20, the same day, the CTS reconvened to discuss Native American Graves Protection and Repatriation Act (NAGPRA), 1990, claim issues which are in dispute. Sealaska Heritage Institute is in the process of repatriation of Teeyhittaana clan objects and Huna Heritage Foundation for the T’akdeintaan clan. Both NAGPRA claims have been on-going and are being considered to be placed before the National Native American Graves Protection and Repatriation Act Review Committee. This is the proposed plan of action.

Huna Totem Corporation and Huna Heritage Foundation



- On August 6, 23 berry pickers from Hoonah had a highly successful day picking nagoon berries in the park. Nagoon berries are a Huna favorite which was traditionally picked in Dundas Bay. The berries are used in jellies and jams and most are saved for the fall koo.eex. The pickers were transported from Hoonah by the M/V Taz. Two seasonal employees assisted in the transportation to the berry patches and for the cooperation of their division chiefs.
- The May 1-2 Cultural education trip out to Gaanaxaa, T’akdeintaan Sacred Place, was cancelled due to disabled charter vessel.
- The annual HHF Clan workshop: scheduled for May 24-25 was cancelled due to death of a prominent tribal member.

- On September 18, 30 students, grades 5-8 from the Hoonah Schools came to Bartlett Cove on an Allen Marine vessel. The three themes selected where the students will become connected with the Huna Tlingit homeland, will become familiarized with the park operations, and will become familiar with career opportunities in the National Park. To capture these themes, the students were divided into three groups for a rotation throughout the day.
 1. Walking in the Footsteps of our Ancestors: The students went to the Forest Loop Trail to see the glacial moraine and to see the interstadial tree stumps at Halibut Point with two park rangers.
 2. Glacier Bay story and Huna Tlingit Signs: Chookaneidi elder Lily White told the story of the glacier driving the clans out of the homeland. The group then went on a treasure hunt in which the students found the eagle/raven panel at the lodge, the ceremonial beach, the proposed Huna Tribal House location, plants and their Tlingit names, the erratic and other significant Huna Tlingit signs.
 3. Introduction to the Park: Students visited Park Headquarters and maintenance where division chiefs gave presentations of their operations and gave information about park employment opportunities.
- Monitored the Huna Totem Holland America Cultural Program. The cultural interpreters' presentations to visitors were viewed with the use of DVD. The presentations followed a prescribed topic format. The visitors were introduced to the history of the Huna Tlingit, the Tlingit way of life, and current economics.

Hoonah Indian Association

- Talking Huna Tlingit Place Name Map: On January 21 there was a meeting with the elders concerning needs for the talking place name map. Corrected pronunciation and histories of places were recorded.
- On June 24, went up Port Frederick on a Forest Service vessel with Hoonah Indian Association (HIA), a federally recognized Tribe, U.S. Forest Service, and elders Lily and Jake White. Lily told Chookaneidi history of when the clans were forced out of Glacier Bay. The Chookaneidi first went to Spaski but were forced to move due to weather. They then went into Port Frederick by the cliff, or Gaaw. A person ventured passed the Gaaw and discovered a more suitable location which became the village by the cliff, Gawt'uk.aan. Lily tells the story of how Halibut Reef was created by a shaman pulling it up from the water. She tells her family history of living by Humpy Creek in Port Frederick where they cultivated a garden, smoked fish, and hunted. The purpose of the trip was to gather history and stories of significant sites within Port Frederick for future educational trips with the Hoonah City Schools students.



- On June 25, went up Port Frederick again to visit a stream with ancient stone fish weirs and traps. There were two crescent rock formations up and down the banks, forming a circle. We then went further into the bay to visit seal hunting blind site. These were stone constructions. These blinds are still utilized today for seal hunting.

- As a representative of a traditional Glacier Bay clan, the T'akdeintaan, participated in a Native American Graves and Repatriation Act (NAGPRA) process. The T'akdeintaan Mount Fairweather clan of Huna recently received notice from the University of Pennsylvania Museum that eight of the 45 at'oowu, or sacred objects and items of cultural patrimony, will be repatriated. The Lituya Bay robe is included. Lituya Bay is the ancestral homeland of the T'akdeintaan clan.



For the remainder of the clan objects (37), the University of Pennsylvania is proposing a partnership with the clan which includes the possibility of a joint curatorial and custodian structure that allows for these objects to be re-situated in Alaska at a mutually agreeable and secure cultural facility such as the Alaska State Museum, a National Park Facility at Glacier Bay, or the Sealaska Heritage Institute. The museum proposed assisting Huna to get the Cultural Center and training for curatorial methods and other projects associated with clan education and history. This offer was rejected by the clan and remains in dispute and will be presented the National NAGPRA Review Committee. This was a very difficult decision to make as many of the elders who have knowledge and can appreciate the return of the sacred objects are passing on. This NAGPRA claim is a joint claim by Hoonah Indian Association and Huna Heritage Foundation.

Tlingit to English Translations

- Translated the Kaagwaantaan Glacier Bay story as told by Willie Ross from Tlingit to English. On July 1-2, went to Juneau to meet with the Kaagwaantaan leader, Frank White, to finalize the translation. This story sheds additional perspective on the natural landscape from the Kaagwaantaan. The story gives accounts of what life was like prior to the exodus from Glacier Bay, the relationship of the Kaagwaantaan and Chookaneidi clans, their separation and settlement at Grouse Fort and, finally, their move to Hoonah. It is the desire of the Kaagwaantaan clan leader to have his brothers and other clan members review the translation.
- Translated the Wooshkeetaan Weitadei noow (fort) history from Tlingit to English as told by Mrs. David McKinley (T'akdeintaan). She states at the very beginning that she is aware of the fact that it is not proper for her to be telling another clan's history but she was not certain if her husband recorded the history. She did not want the history to be lost. The draft translation has not been finalized pending review by Wooshkeetaan elder, Sam Hanlon, Sr.

Cultural Outreach

- A Tlingit cultural presentation was given to the Hoonah City School teachers in Hoonah on February 12. At the school's request the focus was on Tlingit cultural values and way of life.
- On May 7, presented the meaning of the Tlingit button blanket to the Gustavus School. Focus was on the moieties, Eagle and Raven and the clans. Each Tlingit gets their clan identity from the mother, a matrilineal society. The Tlingit names are passed down through the mother's lineage. The clan structure was explained. Each blanket had crests that tell the clans history. The crests belong to the clan. The use of the button blanket is for dancing and also for healing ceremonies in times of bereavement.

- On August 13, gave a cultural presentation to the Glacier Bay Lodge employees. The theme was “Why is Glacier Bay so special to the Huna Tlingit?”
- Participated in the production of the new boater orientation video for the Visitor Information Station (VIS). The VIS has chosen to include the Tlingit presence and values in the park.

Activities of Management Assistant Wayne Howell

Hoonah and Yakutat Cultural Activities

- Performed myriad administrative functions in acquiring funding, implementing agreements and administering activities for all of the cultural activities that took place in the park and preserve, including two one-day Hoonah boat trips into the park, a three-day Hoonah school student kayak trip into the Beardslee Islands, a berry picking trip, an excursion to Dry Bay with a large contingent of representatives of the Gunaxoo Kwaan and a Wooshkeetaan naming ceremony held in Gustavus.

Foundation Statement

- Participated in drafting GLBA Foundation Statement document as it pertains to cultural resources, including cultural resources.

Cultural Resource Management Activities

- As a collateral duty, continued to perform all tasks related to cultural resource management in order to assure park compliance with all requirements of national program objectives, including Sections 106 and 110 of the National Historic Preservation Act, requirements of the National Environmental Policy Act, and internal NPS program requirements such as strategic planning and GPRA. This included inventory surveys to Lituya Bay and along Icy Strait, activities which resulted in the discovery of new Tlingit cultural sites.

Huna Tribal House

- Wrote a proposal for funding under ‘line item construction’ for the Huna Tribal House. Succeeded in getting the proposal out of Alaska Region with highest rank for the region, but the project fell just below the cut line at the national level. Rewrote proposal to compete better in 2010.

Sealaska Legislation

- Throughout the year continued to track the legislation being proposed by Sealaska Corporation and responded to multiple information requests and briefing statements.



A newly found rock art image in the park – two canoe-loads of people confronting each other

Administrative Division

Budget

Closed out budget to within 1.3% of authorized amount.

- ONPS budget for the park was \$4,591,100
- Cost recovery for cruise ship Interpretation operations was \$771,889.06
- Omnibus income was \$1,423,511.95
- Income from permits was \$20,699.83

Administrative Accomplishments

- Continued the process of contacting vendors to discontinue sending junk mail, resulting in a reduction of approximately 90-95% of the junk mail that we previously received.
- Processed 197 Travel Authorizations and 275 Travel Vouchers
- Completed one formal and one informal property inventory
- Prepared for and conducted two excess property sales resulting in the disposition of approximately \$105,872 of excess property
- Prepared 14 Certificates of Unserviceable property resulting in disposal of approximately \$31,000 of worn out and unserviceable property
- Installed a centralized uninterruptible power system that will power the HQ building phones, network, and servers for up to eight hours in the event of utility power interruption.
- Procured and installed a wireless network in the housing area to provide satellite internet access to permanent residents. (We may not want to mention this elsewhere. We didn't ask for anyone's blessing.)
- Increased efficiency by utilizing virtual server technology to eliminate three physical servers.
- Prepared, announced, determined qualifications and generated certificates of referral for 25 Local Hire job advertisements.
- Coordinated and completed request to recruit packages for submittal to Denver Franchise for 16 Competitive seasonal advertisements.
- Coordinated and completed request to recruit packages for submittal to USA Staffing at AKRO for 10 Permanent announcements.
- Coordinated the selection of 15 students hired under Student Temporary Employment Program.
- Coordinated, prepared, and reviewed the full range of **personnel action requests** (such as for appointment, change of work schedule, award, extension, promotions, furlough, resignation, termination) for submittal to regional specialists; **for approximately 26 new hires, 35 returning seasonal employees, 7 Term and 50 permanent employees.**
- Managed 6 Workers Comp cases for OWCP along with follow-up with medical services to resolve claim settlement problems.

Commercial Visitor Services/Transfer Vessel Operation

- Staffing and Operations: Dave Nemeth continued as Chief of Concessions & Marilyn Trump teleworked, on a reduced schedule, from Chehalis, Washington. In April, Dave was also assigned management of the cruise ship transfer vessel operation.
- Transfer Vessel Operations: This operation provides transportation to park staff between Bartlett Cove and cruise ships visiting Glacier Bay (cruise ships carry about 95% of all park visitors), primarily interpretive rangers and cooperating association personnel. Fritz Koschmann was the lead captain, assisted by Debra Johnson, Don Morda and Kenny Wahlheim. Various park staff provided relief deckhand assistance, primarily Wayne Clark. Personnel board the cruise ship while vessels are under way via a rope ladder suspended from the ship. Over 1,800 transfers were completed without a single injury or near miss.
- Glacier Bay Lodge and Tours continues to experience poor financial returns, having reported net loss for each of their six years of operation under the current contract (2004-9). The operator received “marginal” overall ratings for 2005, 2006 and 2007 and an “unsatisfactory” rating in 2008, but has shown some improvements in 2009. Maintenance of the government owned facilities continues to be an issue.
- Charter Vessel Services: Sixteen companies provided services under ten year concession contracts issued in 2006. Demand for June - August use days (limited to six vessels per day) was below last year, with about 50% of available use days utilized. Charter vessel services were also authorized under Commercial Use Authorizations (services were not authorized in Glacier Bay and Dundas Bay June – August). There was continued growth in CUA charter vessel use during May and September, primarily for guided halibut sportfishing. A planning effort has been initiated to review May and September charter (and private) vessel use to determine if management actions are needed.
- Tour Vessel Services: Four companies provided tour vessel services; three under ten year concession contracts issued in 2008, one under the Glacier Bay Lodge contract.
- Cruise Ship Services: Six companies provided cruise ship services under extended concession contracts expiring in 2009. A total of 224 cruise ships visited Glacier Bay, carrying 422,919 passengers (a record number). New concession contracts for cruise ship services for 2010 through 2019 were awarded this year, resulting in enhanced visitor services, safety, environmental protection and franchise fee revenue.
- Guided Alsek River Rafting: Demand for guided river rafting services continued to decline with barely 50% of the available trips being run. Operators reported low demand, in particular early and late in the season. The Park continued to work with Canadian land management agencies (Parks Canada, British Columbia and Yukon Territorial Government, as well as Champagne-Ashihik First Nations) to cooperatively manage this trans-boundary river system.
- Guided Sea Kayaking: Three concessioners were authorized to provide these services in 2009: Alaska Discovery and Alaska Mountain Guides provided overnight guided kayaking trips. Glacier Bay Sea Kayaks provided day trip guided kayaking based out of Bartlett Cove.
- Bartlett Cove/Juneau Passenger Ferry: Glacier Bay Lodge and Tours operated evening ferry trips utilizing the day tour vessel two evenings a week.
- Dry Bay Lodging: Three small remote lodges (Northern Light Haven, Johnny’s East River Lodge and Alsek River Lodge) were in operation, primarily serving sportfishing and hunting clientele.

- Commercial Use Authorizations were issued to 39 companies. Services included vessel charters (see above), air taxi, guided hiking and sightseeing, guided sportfishing, guided kayaking, ferry service, guided rafting, and mountaineering.
- Commercial Visitor Services Authorized in 2009

Alsek River Rafting (US)

Alaska Discovery, Inc. (CC-GLBA008-05)
 Chilkat Guides, Ltd. (CC-GLBA011-05)
 Colorado River & Trail Expeditions, Inc. (CC-GLBA012-05)
 James Henry River Journeys (CC-GLBA013-05)
 Mountain Travel Sobek (CC-GLBA014-05)
 Wilderness River Outfitters (CC-GLBA017-05)

Alsek River Rafting (Canadian)

Champagne & Aishihik First Nations [managed by Nahanni River Adventures] (IBP1098)
 Explorers League-World & Wilderness Rafting Expeditions Ltd. (CUA1092)
 Rivers, Oceans and Mountains [transferred from Kootenay River Runners] (CUA2001)
 Nahanni River Adventures, Ltd. d.b.a. Canadian River Expeditions (CUA1071)
 Skeena Valley Expeditions (CUA1094)
 Tatshenshini Expediting Ltd. (CUA1073)

Charter Vessel Services

Adventures Afloat (CC-GLBA028-06)
 Alaska Yacht Charters (CC-GLBA031-06)
 Chichagof Charters (CC-GLBA015-06)
 Dolphin Charters (CC-GLBA030-06)
 Fairweather Adventures at Glacier Bay (CC-GLBA025-06)
 First Out, Last In Yacht Adventures (CC-GLBA022-06)
 Alaska Glacier Guides, Inc. (CC-GLBA018-06)
 Gustavus Marine Charters, Inc. (CC-GLBA027-06)
 Lisianski Charters (CC-GLBA026-06)
 Marine Adventure Sailing Tours (CC-GLBA019-06)
 Sea Wolf Adventures, Inc. [Internal assignment of contract is pending] (CC-GLBA032-06)
 Sound Sailing (CC-GLBA023-06)
 Southeast Alaskan Adventures (CC-GLBA024-06)
 Whale Song Adventures (CC-GLBA016-06)
 Woodwind Adventures [Ownership transfer from David Koschmann to Erin Ohlson] (CC-GLBA034-06)
 The Cove Lodge, Inc. (CC-GLBA010-06)

Cruise Ship Services

Carnival Cruise Line (CC-GLBA050-00)
 Celebrity Cruises, Inc. (CC-GLBA046-00) [Inactive]
 Crystal Cruises, Inc. (CC-GLBA036-00)
 Holland America Line Inc. (CC-GLBA005-00 & CC-GLBA002-00)
 NCL Cruises Ltd. (CC-GLBA007-00)
 Princess Cruises, Inc. (CP-GLBA004-00 & CC-GLBA003-00)

West Travel, Inc. (CC-GLBA040-00)

Lodging

Alsek River Lodge (CC-GLBA033-05)
Glacier Bay Lodge & Tours (CC-GLBA001-04)
Johnny's East River Lodge (CC-GLBA029-05)
Northern Lights Haven (CC-GLBA020-05)

Guided Sea Kayaking

Alaska Discovery, Inc. (CC-GLBA009-07)
Alaska Mountain Guides (CC-GLBA049-07)
Glacier Bay Sea Kayaks (CC-GLBA021-07)

Hunting Guides

Gary Gray, Registered Guide (CP-GLBA901-05)
John Latham, Registered Guide [Transfer to Gary Gray] (CC-GLBA902-05)

Kayak Rental

Glacier Bay Sea Kayaks (CC-GLBA035-04)

Tour Vessel Services

American Safari Cruises, LLC (CC-GLBA042-06)
Lindblad Expeditions, Inc. (CC-GLBA038-06)
West Travel, Inc. (CC-GLBA037-06 & CC-GLBA039-06)

Commercial Use Authorizations (excluding Alsek Guided Rafting listed elsewhere)

Air Excursions, LLC, CUA0520
Air North Charter & Training, LTD., CUA0351
Alaska Coastal Airlines, Inc., CUA2064
Alaska Mountain Guides & Climbing School, Inc., CUA0559
Alkan Air, Ltd., CUA0478
Allen Marine Tours, Inc., CUA1069
Alsek Air Service, Inc., CUA0905
American Safari Cruises, LLC, CUA0827
Black Rock Charters, CUA2004
Brabazon Expeditions, LLC, CUA0497
Cross Sound Express, LLC, CUA2058
Deep Blue Charters LLC, CUA2002
Doc Warner's Alaska Fishing, Inc., CUA1079
EarthCenter Adventures, Inc., CUA0671
Elfin Cove, Eagle Charters LLC, CUA0943
Glacier Bay Lodge & Tours, CUA2048
Glacier Bay Sportfishing, CUA2015
Hobbit Hole Guesthouse & Charters, LLC, CUA0875
Icy Strait Adventures, CUA0555
John Latham, Registered Guide, CUA0128
Majestic Expeditions, Inc., CUA2103
Mountain Flying Service, CUA0373
Off the Beaten Path, LLC, CUA0870
Pacific Catalyst II, Inc., CUA2010

Packer Expeditions, Ltd, CUA0599
Ripple Cove Charters, LLC, CUA2024
Sifton Air, CUA0920
Tanaku Lodge, CUA0574
Taylor Charters Fishing Company, CUA2052
The Explorers League-WWRE Ltd., CUA1092
True North Sportfishing, CUA0828
Ward Air, Inc., CUA0524
Wings Airways, Inc., CUA0201
Yakutat Coastal Airlines, CUA2046

Interpretation



- Personal services continue to be the centerpiece of our interpretation and education program at Glacier Bay. With our staff of four permanents and 19 seasonal employees, in 2009 we provided interpretive services and original programs to more than 450,000 visitors at Bartlett Cove, on cruise ships and on tour vessels. We also provided educational outreach programs that reached 1,988 students, both locally and nationally.

Seasonals

- The following list highlights specific programs, products and services for 2009.

Staffing and Program Offerings

- Our interpretive program consisted of seven different types of programs conducted on cruise ships, tour vessels, and land-based in Bartlett Cove. To carry out these programs, the division staff totaled 23. Nineteen seasonal staff consisted of the following positions: 18, GS-07 interpretive rangers, and one GS-04 park guide.

Seasonal Training and Coaching

- Our two-week seasonal training was customized to effectively address the needs of new and returning staff. Our training for 2009 was considered by many as one of the best ever offered. A full complement of subject matter experts were invited to participate in and present training sessions. Experienced seasonal staff presented specific topics related to their expertise. New interpreters were oriented to Glacier Bay's



resources and geography on an extended two-day trip to the glaciers on the M/V Seawolf. Our interpretive supervisors assisted staff with program development, and then attended

their first programs to offer support, guidance and comments to strengthen programs. Veteran seasonals assisted new employees in program preparation and coaching. The outcome continues to be a more confident and knowledgeable staff, plus interpretive programs that quickly achieve excellence.

- Our seasonal staff continues to be a highly experienced and dedicated cadre of Glacier Bay interpreters. Only five of 19 seasonal staff were new hires to the park. Once again, our division received Centennial funding that allowed us to continue providing a daily three-hour Bartlett Cove hike and fully staff the visitor center continuously from 11am-9pm. A student, serving as a park guide, was also able to offer library/curatorial support for the park resource library.

Cruise Ship and Tour Vessel Interpretation

- Division staff continued to present meaningful and effective interpretation aboard cruise ships and tour vessels. This year we added a new *Marine Wildlife Watch* program on ships that began as a Ranger Chat in a lounge indoors and ultimately switched to an outer deck for wildlife viewing with the ranger. This was a huge success with hundreds of visitors participating in each of these afternoon sessions. We will continue to offer this successful interpretive program in future years.
- Visitors on board tour vessels experienced in-depth explorations of the park with rangers spending full days and some nights on board. The *Safari Explorer* provided opportunities for park interpreters to take part in up-bay glacier shore excursions, hiking, and kayaking with the passengers. Special children's programming was again provided on family-oriented tour vessel itineraries.



Huna Totem Cultural Program

- Huna Totem Corporation (HTC) staff continued to provide interpretive services on Holland America cruise ships and Cruise West tour vessels. Division staff worked closely with HTC and concessioners to adjust program timing on vessels so that the HTC and NPS programs complemented each other. The park continued to transport Huna Totem Corporation cultural interpreters to cruise ships via the M/V Serac.

Cruise Ship Junior Ranger & Explorer Programs

- The Glacier Bay Junior and Explorer Ranger programs on board cruise ships continue to reach thousands of children cruising in Glacier Bay during the summer months. This award-winning program was enthusiastically embraced by on-board youth staff, which used both the activity books and the center activities to enrich their programs for youth aged 6-16. Division staff spent time in each ship's children's center presenting special programs to the staff and youth. This year the Junior Ranger Program for preschool children was launched with a new *Pee Wee Ranger Activity Book* produced by Fawn Bauer with artwork created by Margaret Hazen. The Junior Ranger Program for school age children and the Explorer Program for teens continued to be delivered on cruise ship, tour vessel and at the lodge.

Program enhancements

- Division staff developed artwork and arranged for the production of a new Glacier Bay National Park Junior Ranger Badge. With a glacier and humpback flukes, this is one

Junior Ranger badge that kids won't find anywhere else!

- A detailed slide sequence showing glacier terminus locations throughout history and Glacier Bay Bird PowerPoint images were developed for inclusion in ranger presentations.
- A Cruise Ship Itinerary Guide was provided to captains and cruise directors on board ships featuring the elements that make a successful interpretive program in Glacier Bay.
- The purchase and installation of a new digital projector for the lodge vastly improved the images shown in films and PowerPoint presentations.
- A wide variety of library reference books were purchased for all park employees.
- Visiting guest speakers at the lodge included Captain Philippe Fichet Delavault who delivered a program on *French Explorer La Perouse in Alaska* on July 25, 2009. Approximately 80 people attended.
- Division staff provided interpretive presentations for park staff that do not ordinarily have the opportunity to attend interpretive programs delivered in Bartlett Cove or on ships. We provided four brown-bag interpretive presentations in the Headquarters' Conference Room. The last presentation was the End-of-the-Year Slideshow. Attendance at the programs totaled approximately 85 people.
- The End of the Year Slideshow and Photo Contest at the Lodge attracted a full-house (75+) for two showings. Thirty-one people saw the program at the Gustavus Public Library in September. We also provided this enjoyable program for the maintenance staff as part of their weekly meetings. Images in the show were fantastic and people were hard pressed to cast their vote for best image. Alaska Geographic provided the awards for the winners.

Education and Outreach Programs

Aqua Scientists

- All students at Gustavus School were provided interpretive and educational programs by division staff ranging from boat trips to classroom sessions. One highlight was our assistance with the recognition of the Aqua Scientists who spent all year studying the freshwater and marine environment in Bartlett Cove and reporting on their findings to park staff at the end of the school term.



First Bloom Students

- The Juneau Boys and Girls Club visited the park to participate in a pilot First Bloom Project (A National Park Foundation Program). Ten children and three adults travelled to Glacier Bay by ferry, cruised to the glaciers with a park education specialist, hiked the Forest Loop Trail with a park ranger, and conducted an exotic species weed-pull on the weekend of June 12-14, 2009. Aramark partnered with the club to provide many of these services at no cost. The park received funding from the Foundation for a more comprehensive program for 2010. The park's education supervisor and the club director attended a week-long training in Austin, Texas in August on the program and were scheduled to have a kick-off event on September 26 but the club closed down due to lack of funding. The Girl Scouts of Juneau will be implementing this program for 2010.

Design, Develop, and Research (DDR)

- The division developed a cooperative course with the University of Alaska Southeast

(UAS) entitled Design, Develop and Research. The *Glacier Dynamics and Biological Succession in Glacier Bay* trip consisted of ten days of instruction, which included an eight-day field experience in Glacier Bay for ten high school students. Our education specialist Steve Schaller helped plan, coordinate, organize, and present this course with partners at UAS and the Alaska Department of Fish and Game. Using the latest technology, students gained experience with intertidal transects, hydrophone recordings, and water column temperature gradients.

Discovery Days Summer Camp

- This summer the Discovery Days program was expanded to offer both preschool and elementary student camps. Forty-four kids (ages 3-7) participated in the Discovery Days in June and 43 kids (ages 8-12) participated in July. Both camps consisted of four weekly, three-hour camps filled with instruction, games, activities, and projects focusing on the subject of birds.



Arts in the Parks

- A new *Arts in the Parks Program* was created and delivered this August that featured two sessions: *Huichol* and water-color painting for 26 kids (ages 6-12.) The response was great and now adults in the community are requesting similar sessions.

Library Reading Program

- In partnership with the Gustavus Library, three division staff presented park educational programs at the Gustavus Library Reading Program during June and July reaching 98 students with music and storytelling related to the park.

Campfire Program

- In May, interpretive division staff assisted with a park campfire program including a fire starting demonstration, singing and storytelling. Twenty-three children and adults attended.

America's Best Idea

- Division staff facilitated several official public previews of the Ken Burn's film, *America's Best Idea*. Twenty-one people attended the preview presented by division staff at the Gustavus Public Library, sixteen students and adults attended a preview at the Gustavus School, and approximately sixty-five park staff watched the preview at an All Employees Meeting in August.

Media Products

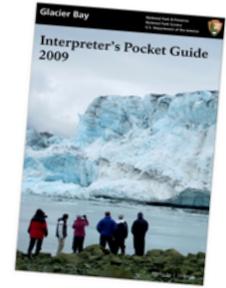
New Unigrid Brochure

- The park's long awaited new brochure was distributed to park staff and visitors to rave reviews in April 2009. The brochure was a cooperative effort with contributions from all divisions, NPS Harpers Ferry Center and Alaska Geographic.



Interpreter's Pocket Guide

- The 36-page regulations guidebook produced by this division each spring to assist NPS shipboard interpreters has become an extremely popular product for park employees in all divisions. This year, we had to produce a large number to satisfy demand.



Wayside Exhibit Project

- A contract was awarded through Harpers Ferry Center for the design of our wayside exhibit project in August 2009. Review of the conceptual design began in December.

Junior Ranger Publications

- The park printed and distributed the new *Pee Wee Ranger* and *Explorer Ranger booklets* through a Junior Ranger Grant made available through the Washington, DC office.

Marine Environment Online Curriculum

- The largest educational product the division is working on is a multi-disciplinary, online curriculum on Glacier Bay's marine environment for grades 5-8. Working in concert with contractors, park staff fine-tuned all the units including a Web Quest and a Quizzle. The first units of this curriculum have been uploaded on to the park's website, and all sections are expected to be live by late spring 2010.

The Fairweather Visitor Guide

- The division and AK Geographic again produced the park visitor guide, *The Fairweather*, a magazine-style, full-color publication printed on newsprint, which featured short articles and graphics on a myriad of topics. The goal of this guide is to provide one source of information to help ensure a safe, educational, and enjoyable park visit.

Park Website Improvements

- Our park website features continual improvements and new pages, including one on songbirds that was highlighted nationally on the NPS.gov site. The *Plan your Visit* section has been substantially improved with photo galleries, maps, online brochures, and even three park films. A *Guide for Cruise Ship Passengers* was posted online, including maps of the ship route, and ranger tips on how to get the best out of your Glacier Bay cruise. This has become one of the most heavily visited website sections. Also, the first of Glacier Bay's *Ranger Minutes*, a series of short online videos focusing on a variety of park topics are now available with many more on the way.



Camper Orientation Video

- Division staff assisted Visitor Information Center staff with the production of a new and improved version of the Glacier Bay Camper Orientation Video focusing on Leave No Trace principles.

Beyond Our Borders

Interpretive Development Program

- Tom VandenBerg continued his involvement in the NPS Interpretive Development Program (IDP) as a trained peer review product certifier. As part of the new focus on coaching and offering interpretive certificates, all three supervisory interpreters were selected to attend NPS IDP.



Coaching Training at Denali in March

- Tom VandenBerg, Melanie Heacox, and Steve Schaller are now certified interpretive coaches, qualified to review submitted modules, and grant advanced certificates to participating seasonal interpreters. In addition, two division seasonal employees were recognized for submitting IDP products that officially certified meeting professional NPS interpretive standards (Tim Rains and Janene Driscoll).

Regional Education Advisory Group

- The chief serves as co-chair of the Regional Education Advisory Group which is playing a critical role with the regional chief of interpretation position vacant.

National Education Council

- The division chief was selected as vice-chair of the National Education Council and served as a subject matter expert for developing the future Interpretation and Education Academy.

Evaluation

- The division facilitated Doug Knapp's ethnographic study of our interpretive program. Over the 2008-2009 winters he contacted visitors regarding the interpretive programs they attended at the park. A preliminary report was delivered this spring and he presented a session on the study at the National Interpreter's Workshop in November. Results were shared with staff and will be helpful in evaluating and fine-tuning our program in the future.

Volunteers

- Seventy-eight volunteers donated 5,339 hours to the park. Resource management and maintenance projects utilized the majority of volunteer time with 4,269 combined volunteer hours. \$3,404 was spent in the park's VIP account, which translates to approximately \$0.64 per volunteer hour.



Alaska Geographic

- In addition to branch manager, Karen Platt, Alaska Geographic employed two seasonal full-time positions and one seasonal part-time position. Their assistance on board larger cruise ships was invaluable to the interpretive rangers. AK Geographic staff assisted by division personnel achieved sales of \$300,476 through December 2009. Membership sales were up 13%.
- Direct support of approximately \$33,640 was reinvested into the park's interpretive and information operation. These funds supported a myriad of projects and purchases that resulted in enhanced interpretation, professional development, and increased opportunities for park visitors to connect to the resources and meanings of Glacier Bay.



Maintenance

Trails / Roads

- Assisted Resource Management (RM) in developing Environmental Assessments for Dry Bay trails and in-holding management.
- Cleats were removed from the Bartlett River Trail boardwalks due to their trip hazard potential. Nylon mesh was installed in the place of the removed cleats.
- Brushing and marking was completed for seven miles of Park Boundary utilizing day labor along with and a ten person Public Land Corp (PLC) crew. Additionally, hand tools were used to thin overgrowth on ½ mile of beachfront trail.
- Condition assessments were completed for all Bartlett Cove Trails.
- NPS personnel, with the assistance of a Public Land Corp crew, completed trail rehabilitation work at Dry Bay including:
 - The installation of 244 soil stabilization panels at the Dog Salmon Creek Off-Highway Vehicle (OHV) trail crossing.
 - The construction of 125 linear feet of 12' wide turnpike - using logs, fill and geotextile to remediate resource damage caused by OHV traffic on Dry Bay Trails.
 - The brushing of 4 miles of OHV trail to a 12' width.



Geoblock being installed at Salmon Creek in Dry Bay

Nylon mesh on Bartlett River Trail boardwalks

- The road resurfacing (chipseal) project resumed following a contract negotiation that was supported by an onsite evaluation by a subject matter expert (SME) from the Federal Highways Administration.
- A catchment and drainage culvert were installed at the administrative headquarters area parking lot, resolving a longstanding safety and maintenance issue.

Marine Facilities / Vessels

- Dock safety projects in FY09 included the repair and replacement of bullrails, grating, cleats, and escape ladders.

- Anodes were installed by contract at the Bartlett Cove Fuel Dock and Public Use Dock to prevent corrosion. Additionally, flotation was installed to level the Fuel Dock floats.
- The lighting at the Bartlett Cove Fuel Dock and the Public Use Dock was upgraded for energy efficiency, safety, and with consideration to Night Sky initiatives.
- The Indian Point Dock was closed following a failure of the attached pedestrian ramp. An inspection and evaluation is planned for the facility in 2010.
- Following a catastrophic failure, the engines of the MV Serac were replaced.



Contractors lowering anodes to be placed on the fuel dock

Buildings

- Several park administration buildings and housing units received interior and/or exterior paint. Several buildings also received roof treatment.



GBA62 in 1964



GBA62 in 2009

- A former Civil Aeronautics Administration boiler building that is now owned by the NPS was added to the Alaska Historic Register. The building is currently undergoing a rehabilitation project.

Water and Wastewater Utilities

- A nano-filtration water system was installed and activated at Bartlett Cove. The upgraded system brought the park back into Alaska Department of Environmental Conservation (ADEC) compliance by removing contaminants.
- The Penstock supplying water to Bartlett Cove was repaired to allow unrestricted flow from the coffer dam to the raw water well on January. The supply pipe was surveyed in May and as-built drawings were developed soon after. A Certificate to Operate was received from the ADEC in December.



Repairing the Penstock pipe

- Following several months of sampling reports, the Bartlett Cove water system received a Certificate to Operate from the ADEC in December.
- An upgrade of the Gustavus Water Plant was completed. As-built drawings and an application for certification are currently being developed by NPS AK region engineering
- A Class V injection well permit was received from the EPA for Bartlett Cove Maintenance facility and Gustavus compound septic systems in March.
- Both of the Bartlett Cove drinking water storage tanks were inspected and cleaned by contract.
- An Alaska Pollutant Discharge Elimination System (APDES) permit from the ADEC was received for the Bartlett Cove Wastewater Treatment Plant (WWTP). This permit replaces the expired National Pollutant Elimination System (NPDES) permit issued by the United States Environmental Protection Agency (EPA).

Recycling and Waste Management

- Approximately 2,000 pounds of lead-paint containing material accumulated during the rehabilitation of a historic building were shipped to a certified hazardous materials disposal site in Idaho.

- Following a rewrite of the operational plan for the Bartlett Cove landfill and recycling depot the ADEC issued the Park a Class III Municipal Solid Waste Landfill (MSWLF) permit in December.



Hand sorting trash from recyclables at the Depot

General Maintenance

- A station was installed to monitor levels of mercury content in rainfall.
- Maintenance supported the response to a wildland fire that occurred outside of the park. Maintenance workers removed hazard trees, led fire crews, and assisted in fire extinguishing efforts.



Meeting of park employees during fire response

- A two-year project to repaint electrical transformers was completed.
- Cyclic maintenance of the park wash-water treatment and recycling system was completed.

- The project to inspect and paint all (20) above-ground fuel tanks was finished. This project included internal inspections using a bore scope, checking for the presence of water, check, testing the alarms and gauges, and correcting deficiencies.

Resource and Visitor Protection

- One of the many 2009 highlights was the response to a fast moving wildfire in Gustavus. The fire threatened many residential structures in the local community. Division staff skillfully directed fire suppression operations that included aircraft, heavy equipment, and a large turnout of community volunteers. Park personnel were able to implement critical suppression tactics that were able to contain the fire and prevent the loss of any structures in the area. It was an impressive unified effort between the two entities.
- FIRST team preparedness was substantially improved this past year. Being led by park personnel with specialized training, improved training for the team and additional needed equipment and gear have been procured.
- Chief Ranger Randy Larson was asked by the regional office to develop a Type 3 Incident Management Team for the entire region. Team members were selected and a three day workshop was planned and implemented. Randy will be serving as Incident Command for the 14 person regional team.
- The Visitor Information Station has increased the vessel monitoring services that they provide. They are now monitoring AIS and SPOT devices.
- Summer seasonals were able to increase the backcountry patrol presence. The staff was able to collectively spend over 175 nights in the backcountry with some of these nights being on the outer coast.
- Ranger staff participated in a multi agency Law Enforcement fisheries operation (pulse op) of the Icy Strait area. Ranger Duane Grego was placed on board the Coast Guard Cutter Naushaun and conducted patrols in Cross Sound and on the Outer Coast. Rangers Todd Bruno, Wendy Bredow and Patrick Reimann patrolled on the Arete with a National Marine Fisheries (NMFS) Special Agent in the Icy Strait and Glacier Bay proper. District Ranger Gus Martinez provided logistical and ground support for NMFS officers assigned to the Gustavus Dock. This operation was led by NMFS and had the Alaska State Troopers and UCSG participation. During this four day period 110 vessels were boarded and 19 citations were issued by participating agencies. This was the first operation of this type and proved to be successful in maximizing Law Enforcement resources throughout the Icy Strait/Glacier Bay/Cross Sound/Glacier Bay area.
- Chief Ranger Randy Larson recruited and hired the Yakutat District Ranger position. He was able to collaborate with several acting Chief Rangers at Wrangell Saint Elias to overcome obstacles and push hiring efforts forward which culminated in the filling of the position. Jacqueline Ashwell has joined the divisions rank as Yakutat District Ranger. Jacqueline brings with her an accumulation of rangering experience and both parks are happy to have her onboard.
- The division pursued hiring a diversity candidate through the diversity placement program where a Hispanic student from California was hired. Henry Palomares had never camped in the wild, seen snow and had only been on a boat once in his life. This experience proved to be very rewarding to the park the staff and Henry. Henry plans on continuing to work for the National Park Service and is hoping to work in a California park next year.

Death March 2009

- Every year the division embarks on what is endearingly called the “Death March”. The 2009 “Death March” took place in the Beardslee Islands which is the backyard to Bartlett Cove. Having the trip closer to home with less logistical issues made more time for additional team discussion, planning and training.

Program Management

Visitor Information Station (VIS)

- This year the VIS staff had two permanent, ten seasonals which included one full time volunteer and two emergency hires. Because of losing two seasonals mid season the increased staff was able to help maintain scheduled hours. With the continued addition of Centennial Initiative hired seasonals it has only proven many times over of how short staffed we were in the past. Having the increased staff has increased our visitor safety by having one dedicated person dispatching, giving uninterrupted orientations that are safety focused and having staff out patrolling and educating the public on bear safety.
- A very significant change that took place at the Visitor Information Station is the monitoring of both AIS and SPOT devices. We are now able to track vessels that are equipped with these instruments. Not only vessels but land based employees that need tracking as well. This monitoring is taking place by the dedicated dispatcher.
- The Visitor Information Station continues to be the communications hub for the park.

Campground Management

- This year many major changes to our camping permit process took place. A new film was developed that has a strong Leave No Trace message and makes a connection with the National Park Service.
- Alaska Geographic sponsored a pin to be designed that would be given to campers when they return after their trip. This pin will change each year making it a collectable for those that are inspired. This year pin design is that of the American oyster catcher which was designed by Katie Unertl.
- Campers will now have a water proof hard copy permit in their possession that the rangers could easily ask to see. The permit is signed by the permittee that they have gone over all of the listed information and regulations.

Special Uses Permits

- Special Use Permits were given out for two weddings another for selling bait and one for buying crab.
- This year we had ten requests for filming with only six of them going through to completion of filming.
- Glacier Bay was able to have a student from Montana State University using a Cooperative Educational Studies Unit (CESU) come for two weeks to film our boating orientation video. The video has needed to be updated for many years and it was an accomplishment in getting this project started.

Alsek River Management

- Jim Capra led one trip down the Alsek/Tatshenshini River with the British Columbia parks and Champagne-Aishihik personnel. Jim spent two days at Melt Creek attempting aversive bear conditioning.
- Both Jim Capra and Randy Larson worked with the Superintendent and key staff in addressing complex boundary, resource, and visitor management issues at Dry Bay. Notable issues include managing contentious All Terrain Vehicle use, fisheries and resource protection issues, and disputed state-federal jurisdictional issues. The Superintendent, Chief Ranger, and other key park personnel are working with Alaska Regional Office staff, Department of Interior Solicitor, and Alaska state officials to find a resolution to a complex boundary dispute between the state and National Park Service.

Resource and Visitors Protection Activities

- Rangers wrote 17 violations this year, 14 of them were given to backcountry users. The most significant of these were:
 - A violation for throwing beer bottles at Lamplugh Glacier was successfully prosecuted by Ranger Bruno with the cooperation of the Cruise Ship Security Office.
 - Ranger Duane Grego also prosecuted a food storage violation with the information provided by a visitor to McBride Glacier, the visitor happened to be a former clerk for the U.S. Supreme Court.
 - During a plain clothes operation to monitor for illegal fishing activity Ranger Reimann discovered and successfully prosecuted a violation for possession of a controlled substance.
 - A bear was illegally taken in Excursion Inlet.
- Overall the ranger staff spent 88 nights out on 24 different patrols (combined motorized and non-motorized patrols).
- Two citations were given for commercial use operations on the Bartlett River.

Subsistence Management

- Jim Capra was appointed as the co-chair of the Alaska region Subsistence Advisory Committee. He attended both of the S.E. Council meetings and reported all of the areas concerns. He was able to research and comment on three different subsistence regulatory proposals.

Resources Management

- Our division continues to be a huge support to Resource Management from transporting invasive species team to their place of operations to doing a daily vessel count on the dock for them. Our divisions work very closely and for many of our employees this is the highlights of their summers. This year a couple of the more notable incidents that our staff were instrumental in were:
 - Wendy Bredow participated as a team member in disentangling a whale. With the leadership of Biologist Chris Gabrielle and assistance from Biologist Janet Neilson they accomplished a dangerous task. The whale was reported to be entangled with a crab pot buoy and line. The whale disentanglement team was successful in attaching a satellite tracking buoy to the trailing line. This provided an opportunity to monitor the whale's activity and prepare a plan for the following day, as daylight was fading. Fortunately the whale successfully disentangled itself.
 - Todd Bruno and Wendy Bredow were able to assist Tania Lewis with gathering data for her master's study on vessel vs. bear impact.
 - The staff at the Visitor Information Station counted anglers on the Bartlett River for Chad Soiseth and his angler studies.
 - A seven day patrol was conducted in Lituya Bay meeting several objectives for resource management.

External Outreach and Partnership Involvement

- Our division of Visitor and Resource Protection excels in both the areas of outreach and partnership involvement. Among the many opportunities that the division had were:
 - The coordination and spearheading of a structure fire brigade was implemented in partnering with the Gustavus Fire Department.
 - We worked closely with other agencies; National Marine Fisheries, United States Coast Guard, and Alaska Wildlife Troopers worked with us at different times throughout the summer.
 - The Incident Management Team for the surging of Tweedsmuir Glacier pulled all Alsek River partners together to work on strategies to better inform the rafters and fishermen that could be involved if the river were to flood.
 - Staff conducted classes both at the Gustavus school and the Library for elementary through high school students.
 - Staff taught a course to a local Girl Scout group on Respect.
 - One of the most fun outreach projects we do is fix breakfast for the community at the school. This year staff made two wonderful breakfasts for all those that showed up!

Resource Management



Glaucous-winged gulls at a nest on South Marble Island

- The Resource Management Division coordinated the completion of the GLBA Foundation Statement with planners from the Alaska Regional Office and the Denver Service Center.
- The GLBA Bear Management Plan was completed and signed by the Superintendent.
- Resource Management staff participated in an Ocean Program Workshop in Boulder, CO, and an Alaska Region Ocean Workshop in Seward, AK.
- GLBA hosted a scoping meeting for a park Geologic Inventory, organized by the Geologic Resources Division. The meeting assessed geologic map coverage and needs, identified unique geologic features, and presented information about the paleontological resources of the park. A map of quaternary deposits to complement existing bedrock geologic map information and additional paleontological inventories were identified as the most critical information needs.
- The head archivist for the Park Service, John Roberts, visited GLBA to test protocols for archiving natural resource monitoring/research data. Information from the park's extensive whale monitoring files was used to test archiving protocols for natural resource data.
- Several Resource Management staff contributed to a thorough review of a State-issued permit for All Terrain Vehicle (ATV) access along the East Alsek River, including a site visit to Dry Bay to evaluate the proposed ATV route. Pressure from GLBA did not prevent the permit from being issued, but the state did agree to issue the permit for one year and conduct a review of the impacts of driving in these areas prior to renewing it.

Whale Monitoring and Research

- The whale biology team conducted humpback whale monitoring from May through September 2009, with concurrent data processing, culminating in the preparation of the annual report in late fall 2009. Work with the University of Alaska Southeast on a web-based whale catalog continued, with the catalog expected to be available on line in early 2010. Whale biologists received training in the use of "MARK" population-estimation software, and began working with the Institute for Bird Populations to create mark-recapture routines to be used in generating whale population estimates.

- Underwater acoustic monitoring continued in 2009, resuming on July 17 after an outage that began on October 27, 2008. Repairing the hydrophone required replacement of a section of underwater cable. The cable was rerouted to avoid an area of high current (and many previous repairs) north of Lagoon Island. Recordings of humpback whale songs were summarized and analyzed in preparation for manuscript on whale song occurrence, looking at diurnal patterns of song and the likelihood of a singer stopping in the presence of vessel noise. An analysis of acoustic data to examine underwater acoustic effects of regulatory changes made in 2007 was initiated in collaboration with the Naval Surface Warfare Center. The whale biologists also worked collaboratively with outside researchers to use the Acoustic Integration Model to quantify differences between days with 0, 1 or 2 cruise ships and shallow hydrophone data regarding 'acoustic shadows' in front of ships,
- The Whale Biologist continued her work as a member of the steering committee of the international collaborative Structure of Populations, Levels of Abundance, and Status of Humpbacks (SPLASH) whale study and attended a symposium and steering meeting held concurrently with the Marine Mammals Conference in Quebec.
- Whale biologists continued their collaboration with a researcher at the University of Copenhagen to test a method of aging humpback whales using eye lenses. Eyes from a stranded humpback whale calf in Hawaii were collected and shipped to Copenhagen. Results are due this fall, when it will be decided whether or not more data are needed prior to publication.
- As part of an ongoing collaboration with Department of Fisheries and Oceans Canada, killer whale identification and vocalization data were collected. These photographs and other data will be provided to Canadian collaborators in 2010.
- In collaboration with the Protection Division, systematic counts of vessels moored, anchored or docked in Bartlett Cove were recorded.
- Revisions were completed on a manuscript that will be published in the April 2010 issue of Marine Mammal Science describing a method for aging whales using earplug laminations.
- As an additional safety measure, the whale monitoring crew obtained a SPOT satellite-tracking device, worked with Visitor Information Station (VIS) to ensure that VIS staff could track it, and implemented tracking of the whale monitoring vessel.
- Working with the Interpretation Division, a killer whale skeleton and humpback whale calf baleen were prepared for display at the Glacier Bay Lodge or Gustavus School. Baleen from whale 68, a whale killed by a collision with a cruise ship, was cleaned in preparation for either becoming an interpretation exhibit or being sent it to the UAF State museum.



Harbor seals on an ice floe in Johns Hopkins Inlet

Harbor Seal Monitoring and Research

- Aerial monitoring of harbor seals continued in 2009. Data collection needed to evaluate aerial survey techniques for harbor seals was completed and the comparison of aerial survey methods with previously used land-based techniques was begun, in collaboration with the National Marine Mammal Laboratory (NMML). The new aerial survey techniques facilitate comparison of seal counts for Glacier Bay with data from other locations in Alaska and will allow for estimation of long-term trends, including population productivity, of seals in Johns Hopkins Inlet.
- Work continued on a collaborative project conducted with the University of Alaska, Fairbanks, “Assessing disease status and select toxicants in a declining population of harbor seals in Glacier Bay National Park, Alaska”.
- Coastal Cluster staff wrote a successful proposal for additional funding for seal monitoring from an Alaska Coastal Marine Resources Grant: Womble, J.N., and S.M. Gende, Monitoring population trends in a declining harbor seal population in Glacier Bay National Park, Alaska (for \$10,000).

Fisheries Management

- Fish population evaluations focused on measuring escapement of spawning sockeye salmon in the Bartlett River Lakes and evaluating impacts on Dolly Varden of the new hydropower plant adjacent to the park boundary in Falls Creek.
- GLBA fisheries staff conducted a joint stream sampling effort in Dry Bay with staff from the Alaska Department of Fish & Game Habitat Division to identify streams that need to be added to the state’s anadromous fish catalog.
- Priority resource management issues for the fisheries team were obtaining accurate fisheries harvest information, including Charter fishing logbooks; evaluating fisheries habitat, water quality and quantity; and mitigating effects of ATV stream crossings in Dry Bay
- U.S. Geological Survey (USGS) researchers initiated a collaborative project, “Assess mercury dynamics in contrasting watersheds of Glacier Bay National Park and Preserve”, funded by the USGS Water Quality Partnership Program, with assistance from GLBA fisheries staff.
- A test printing of the brochure, “Anadromous Fish of Glacier Bay: Species Information, Abundance, Distribution, and Run Timing” was released in hardcopy form and on the park website to determine the level of public interest in this publication.
- GLBA fisheries biologists wrote a successful proposal, “Implementing DIDSON Sonar for Assessing Salmon Escapement in Alaska National Park Wilderness” (for \$98, 900), to obtain support from Regional Natural Resources funds to test a small-footprint Sonar-based approach to measuring salmon escapement in the Bartlett River.



Yellow Toadflax can crowd out native vegetation

Invasive Plant Management

- The GLBA Invasive Plant Coordinator served as the Exotic Plant Management Team (EPMT) coordinator and database manager for the entire Alaska Region during much of FY2009. In that capacity she planned and led Alaska EPMT training in Anchorage in May 2009, revised the Alaska EPMT website to update it and ensure data and links were current and the site functioned in all browsers, revised EPMT data protocols for all Alaskan National Parks, populated the NPS Alien Plant Control and Monitoring (APCAM) database with the 2008 field data from all Alaska parks, populated the Alaska Exotic Plant Information Clearinghouse (AKEPIC) database with the 2008 field data for the Alaska EPMT, populated and error checked the Alaska EPMT geodatabase with 2008 data and collected and processed GPS data on exotic plant locations for incorporation into GIS dataset. In 2009, added an additional 1182 records (34% of the region's records for the year).
- The GLBA team treated all priority infestations of invasive plants. The acres treated (13.6) was 2.7 times higher than GPRA goal for 1a1b. Removal of exotic plants resulted in a significant decrease in the number of plants observed in many infestations, particularly oxeye daisy.
- Exotic plant surveys of Gustavus roads west of the Salmon River were completed, as were shoreline surveys of Rendu and Charpentier Inlets. Previous infestations in Bartlett Cove, Dry Bay, and other backcountry locations were monitored. Several new exotic plant species were detected in the park: smooth brome, thyme-leaf speedwell, and herb Robert. The EPMT collected exotic plant species not already present in the herbarium and mounted 2008 and 2009 specimens for inclusion in the park herbarium.
- Exotic animal monitoring for European green crabs was completed in June, July, August, and September and monitoring of tunicates was conducted in March, June, and September. GLBA developed a Microsoft Access database to store green crab data and shared it with partners.

Marine Operations

- Resource Management vessels conducted 59 days of field work in support of a variety of projects conducted by staff and outside researchers. This year's schedule minimized overtime and combined researcher's trips when possible. Backup operators for the vessels

Sigma-t and Capelin were trained so that monitoring and research projects can be accomplished with minimal overtime.

- GLBA acquired a new 18' skiff from the SEAN, which will better serve the need to haul equipment than the previous 16' skiff.
- GLBA Resource Management staff coordinated the completion of a Glacier Bay nautical chart update with the NOAA Office of Coast Survey and ensured that the new edition was made available for sale here and older editions retired.
- The Resource Management Small Craft Operator contributed to the overall park marine operations by serving as a member of the Marine Safety Committee; by researching and delivering lectures on immersion suit care, design, and use; and by assisting with the Serac transfer operation as needed during May, early June, and September. The Small Craft Operator also worked cooperatively with the Protection Division to design and install a greatly improved mooring system for the fuel barge "Petrel" in South Sandy Cove.
- Resource Management staff, including the Small Craft Operator, participated in the response to a vessel grounding in Dundas Bay. Quick thinking by the Small Craft Operator led to the taping of the doors and vents on the vessel to ensure it did not flood when refloated by the tide.
- During 2009, the Resource Management Small Craft Operator established a cooperative relationship with the National Weather Service, which brought a forecaster to the park to teach a weather segment for the Boating Safety Class and initiated providing phone-in weather observations to the Weather Service from areas of Glacier Bay that lack instrumentation.



Brown bears on the shoreline of Glacier Bay

Human/Bear Interaction Management

- The GLBA Bear Management Plan was completed and signed.
- Bear Committee members, including the GLBA Bear Biologist, responded to a number of bear-human incidents. Two incidents between Queen and Rendu Inlets led to a July 17 advisory recommending against camping in the area. Additional incidents led to the expansion of the advisory area on July 22 to include the shoreline from Queen to Tidal Inlets. Continued use of the Gloomy Knob area despite the advisory led the Bear Committee to move the camper drop-off from Queen Inlet to Sundew Cove, to reduce the number of campers in the advisory area.
- In 2009, GLBA hired a Bear Technician to monitor compliance with bear-related regulations and coordinate the park response to bear incidents in the Bartlett Cove area, and to enter Glacier Bay data into the Alaska Region Bear-Human Interaction (BHIMS) database.

- The Bear Biologist collaborated with Alsek River managers on a variety of bear-human issues, including a bear incident at Melt Creek, BC, review of a summary of past management recommendations regarding bear-human conflicts on the river, and the creation of a poster for the bear-human conflicts workshop in Canmore, BC, Canada.
- GLBA staff provided consultation to other parks and agencies regarding bear-human management, including providing recommendations to WRST on electric fences and other bear management issues, and meeting and corresponding with the U.S. Forest Service regional safety coordinator about bear management techniques and strategies applicable at bear viewing areas in the Tongass and Chugach National Forests.
- The GLBA Bear Biologist continued work on brown and black bear distributions and brown bear response to disturbance by vessels. During 2009, she analyzed bear-vessel disturbance data from 2008, refined protocols for vessel-bear disturbance evaluation, organized and attended a four day workshop on Modeling Species Occurrence and Distribution, completed analysis of 2008 bear species occupancy data and selected study sites for use in 2009 and 2010, and conducted genetic analysis of bear hair samples to identify individual bears.
- Collaboration between GLBA and the USGS facilitated completion of the long overdue Final Report from the 2004-2005 NRPP-funded bear project.
- Efforts to promote bear pepper spray as a safe bear deterrent and inform staff of the importance of carrying bear spray continued to be a priority.



Shipboard observer on the bow of a cruise ship

Coastal Cluster Program

- The Coastal Cluster Biologist led NPS investigations into the ecology and conservation of Kittlitz's murrelets along coastal WRST. Population monitoring efforts within Icy Bay, along the Malaspina Forelands, and Yakutat Bay were conducted. As part of this effort he submitted detailed Implementation Plans for the NRPP-NRM project for Kittlitz's murrelet study in Icy Bay to be conducted in 2010-2012, he helped organize and participated in two field trapping sessions in Icy Bay conducting a mark-recapture effort; captured and banded (and collection of biological samples from) 209 Kittlitz's Murrelets and 23 Marbled Murrelets; radio-marked and tracked 30 Kittlitz's murrelet, plus one hatch-year Kittlitz's murrelet; located two nests (of 30 KIMU) and monitored one nest with a video camera. The Coastal Cluster Biologist also worked with Oregon State University and on a cooperative

study to understand historic and contemporary trophic structure and diet of Kittlitz's murrelet and served as the NPS representative on the Kittlitz's murrelet technical committee to the Pacific Seabird Group

- The coastal cluster organized and oversaw a program to put marine mammal observers on cruise ships. One observer boarded selected cruise ships with interpreters, and conducted observations aboard 86 separate cruise ship entries to Glacier Bay. A second observer, who was a University of Washington graduate student, conducted marine mammal observations while on 30 separate 'cruises' traveling with the ships between ports including Glacier Bay. This effort required extensive coordination with the GLBA Interpretation Division, Cruise Lines of Alaska, the US Customs and Border Protection, the Department of Homeland Security, and Holland America Lines, Inc. to put an observer aboard ships travelling from port to port. A contract with R2 Resource Consultants engaged their expertise to conduct modeling to help define impacts of ships to humpback whales using simulations and empirical data.
- A Cruise Ship Science conference and Science Advisory Board meeting was held in Seattle in December 2009. The Coastal Cluster Biologist organized both meetings, including arranging for conference lodging and accommodations, overseeing the awarding of a contract for meeting facilitation, inviting potential participants and developing a schedule and agenda for the meeting.
- The Coastal Cluster Biologist served as the Implementation lead for the Pacific Ocean Park Strategy. In this capacity, he helped edit and revise the final Pacific Ocean Park Strategy, organized and hosted a visit by Ocean and Coastal Branch Chief, Jeff Cross, to coastal parks in Alaska, helped organize a two-day workshop on the Pacific Ocean Park Strategy, and advised the WASO Ocean and Coastal Branch on efforts related to Marine Protected Areas and ocean and coastal information needs. He also served as the lead service-wide coordinator of marine mammal efforts for WASO, including attending the Conference on Marine Mammal Protected Area Networks.
- A meeting with NOAA, GLBA, WASO, Northern Illinois University, and USGS on benthic habitat mapping efforts in Glacier Bay was organized by the Coastal Cluster in January of 2009. The Coastal Cluster Biologist continues to be the liaison between NOAA, USGS, and the NPS on benthic mapping efforts in Alaska.
- The Coastal Cluster continued its collaboration with the University of Alaska on sculpin evolution and ecology in GLBA by helping to write and submit an NSF grant on 'The fitness consequences of phenotypic plasticity in response to rapid climate change' and contributing to a scientific journal publication on the results of previous work.
- A synopsis of Bayesian trend analysis was developed for the national Inventory and Monitoring Quantitative Workgroup. The results of this effort were presented at the George Wright Society Biennial Meeting.

Museum/Library

- The GLBA Museum Curator completed a variety of high priority museum management tasks during 2009, including review of the collection management plan and Scope of Collection, updating outgoing loan agreements, a random sample inventory, and an inventory of accessions. He also inventoried and prioritized projects for which associated records should be accessioned and worked to correct discrepancies uncovered in previous years' inventories.
- Cataloging of specimens from recent inventories conducted by the Southeast Alaska Inventory and Monitoring Network (SEAN) was completed.
- Proposals to reduce the park's cataloging backlog and separate older materials between the library and collection archives were submitted in PMIS.

- A review of materials from park-permitted research projects was initiated to ensure that all researcher collections are accessioned. Based on the results of the review, expanded instructions for researchers concerning collection requirements were formulated.
- GLBA hosted a visit by the NPS Chief Archivist, John Roberts, to test new NPS procedures for cataloging and archiving natural resources research records, using the GLBA whale project associated records as a pilot project.
- During the summer of 2009, the Resource Management and Interpretation Divisions collaborated on a project to identify older library materials that needed to be copied so that the original copy could be moved to the collection archive.
- The Museum Curator served as core member of park web team to address technical and authoring issues for the park website.

Mapping and Geographic Information System (GIS) Program

- The GIS Specialist provided maps, analysis and GPS programming to support a wide variety of park projects conducted by several divisions.
- Collaboration with the Hoonah Indian Association to complete a distributable version of the Talking Tlingit Placename Map continues.
- Several Resource Management staff members, including the GIS Specialist provided survey support to help the Maintenance Division mark seven miles of the Park-Gustavus boundary.

Planning and Compliance Program

- During 2009, the Draft Gull Egg LEIS was extensively revised to address comments by the public and internal concerns about ensuring that egg harvesting occurs sufficiently early in the year so that chicks have time to fledge. The Final LEIS is expected to be completed for release in early 2010.
- The park initiated a Shoulder Season Vessel Use Environmental Assessment (EA), to address concerns about the rapid expansion of charter vessel activity in May and September. An issue scoping newsletter was produced in May 2009, followed by a public meeting. The EA will be prepared during FY10 with assistance from the AKSO.
- GLBA cooperated with the US Coast Guard (USCG) to initiate an EA addressing their proposal to construct two Rescue 21 marine communications installations, one in the park and one in the Preserve. The GLBA Environmental Protection Specialist prepared a General Agreement to cooperate with the USCG, reviewed a Scope of Work for the contractor who will be writing the EA, and conducted site visits to three possible sites for the installations.
- In response to the concerns of Dry Bay commercial fishermen, the GLBA has agreed to consider reopening a few selected ATV trails in the Preserve. A meeting to consider possible trail re-routes and re-opening to address these concerns was held preparatory to writing an EA to analyze the impacts of alternatives. The EA will be prepared in early 2010 for public release in time for the annual Dry Bay meeting.
- A review of the likely impacts of bringing the Lodge Trail into compliance with the Americans with Disabilities Act was conducted and it was determined that the scope of the trail revisions will fit under a Categorical Exclusion.
- GLBA completed all American Recovery and Reinvestment Act compliance reviews and compliance reporting before deadlines.
- Amendments to the US Army Corp of Engineers and Coastal Zone Management Act permits were completed to allow the Blue Mouse Cove raft and fuel barge to be moved to South Sandy Cove.

- Data from the ongoing backcountry camper survey in 2008 and 2009 was entered into the camper survey database. Data analysis and a summary report covering the 2004-2009 field seasons will begin in 2010.

Science Coordination

- GLBA administered 40 Research and Collecting Permits (Appendix C).
- The Science Coordinator served as a member of the Southeast Alaska Inventory & Monitoring Network (SEAN) technical committee and collaborated with SEAN to complete oceanography vital sign sampling, and to collect samples for measurement of airborne contaminants and mercury wet deposition.
- GLBA hosted a Geologist in Parks (GIP) who reviewed data on the Tidal Inlet geohazard area and recommended procedures for monitoring the hazard.

Education and Outreach by Resource Management Staff

- The GLBA Public Information Officer provided park information to the Fairweather Reporter newspaper, submitted a Biosphere Reserve entry on GLBA for a book about the Biosphere Reserve program, updates to the UNESCO World Heritage Site web site for the entry that describes GLBA, and reviewed and updated park information for a Reader's Digest national park travel guide.
- The Resource Management Division provided sessions for Interpretive Training on a wide variety of topics, including the shipboard observer program, invasive species, bear management, plant succession, library/museum collection use, and whale monitoring.
- Several Resource Management staff prepared Operational Leadership segments for all-employee Safety Day training.
- The Bear Biologist was interviewed by Popular Mechanics regarding wildlife habituation and food conditioning and met with a German film crew to continue filming a segment on GLBA bear management.
- The Bear Biologist gave a bear biology and research presentation, "Ordinary Bears" to staff and visitors at the Glacier Bay Lodge.
- A slideshow on the differences between black and brown bears was prepared to help visitors and staff differentiate between them.
- Information and a demonstration of the use of electric fences to deter bears was provided by the Bear Biologist to Dry Bay residents to help minimize bear-human conflicts.
- The Whale Biologist gave presentations on whale biology to Interpretive Division staff, kayak guides, and Glacier Bay Lodge day-boat captains. She also made an invited presentation on whale longevity and ageing at Whale Quest Maui and two sponsored by Sea Grant Hawaii "Reef Talks".
- The exotic plant management team provided outreach/education at 4th of July in Gustavus, to Boys and Girls clubs in Bartlett Cove, and to the Maintenance and Interpretation Divisions. During Alaska Weeds Awareness Week, daily AK2Day updates were distributed throughout the region. New posters/brochures on hull fouling, sowthistle, and Canada thistle were completed.
- The Coastal Cluster organized a lecture series on cruise ship impacts at the University of Alaska Southeast.
- The Whale Biologist gave an acoustics talk to Juneau high school science in June 2009. The talk inspired one of the instructors for the course, Riley Woodford, to write four 60-second episodes of "Sounds Wild" on acoustics and marine mammals in Glacier Bay, which are being broadcast on KTOO public radio this fall.

Technical Presentations:

- Gabriele, C. 2009. "How can MPAs and networks of MPAs ensure threat mitigation to cetaceans?" Panelist for discussion at the First International Conference on Marine Mammal Protected Areas.
- Gabriele, C. 2009. Vessel Management to Protect Humpback Whales in Glacier Bay National Park, Alaska. First International Conference on Marine Mammal Protected Areas meeting, Maui, HI, Mar 30-April 3.
- Gabriele, C. 2009. Studies of Underwater Noise in Glacier Bay National Park. University of Alaska Fairbanks (in Juneau) seminar series "Effects of Cruise Ships in the Marine Environment."
- Gende, S.M. January 2009. Frequency and severity of encounters between humpback whales and cruise ships in Glacier Bay: implications for strike probability efforts worldwide. National Headquarters, NOAA Office of Protected Resources, invited presentation.
- Gende, S.M. September 2009. Ocean and coastal migration species; establishing a scientific basis for conserving oceanic migrating species for the NPS. WASO/WCS sponsored national migration workshop, Grand Tetons NP, invited presentation.
- Gende, S.M., and N. Hendrix. 2009. Bayesian inference in trend estimation. George Wright Society: Inventory and Monitoring Quantitative Work Group Special Session. Portland, OR, March 2009.
- Lewis, Tania M. and Sanjay Pyare. 2009. Preliminary investigation of the effects of vessel-based bear viewing on the behavior of brown bear in Glacier Bay, Alaska. Wildlife Society Alaska Chapter annual meeting, Fairbanks, AK, April 7-9, 2009.
- Womble, J.N., Gende, S.M., Douglas, D.C., Boveng, P.L., Horning, M. 2009. Site fidelity of harbor seals to a glacial fjord in southeastern Alaska. Alaska Marine Science Symposium, Anchorage, Alaska, January 19-23, 2009.
- Womble, J.N., Gende, S.M., Douglas, D.C., Boveng, P.L., Horning, M. 2009. Site fidelity and overwinter migratory patterns of harbor seals from Glacier Bay National Park, Alaska. Markham Research Symposium, Hatfield Marine Science Center-Oregon State University. June 17, 2009
- Gende, S.M. 2009. Glacier Bay Benthic Habitat mapping. NOAA Ted Stevens Marine Research Institute, Juneau, AK, January 2009.

Reports and Scientific Publications

- Gabriele, C. M, C. Lockyer, J. M. Straley, C. M. Jurasz, and H. Kato. 2009. "Sighting history of a naturally-marked humpback whale suggests ear plug growth layer groups are deposited annually" *Marine Mammal Science* 26: 443-450.
- Gende, S.M. 2009. Understanding how cruise ships affect resources and visitor experiences in Glacier Bay National Park. *Alaska Park Science* 7: 22-27.
- Neilson, J. L. and C. M. Gabriele. 2009. Results of Humpback Whale Monitoring in Glacier Bay and Adjacent Waters: 2009. Glacier Bay National Park & Preserve, Gustavus, AK. 18pp.
- Partridge, S., T. Smith, and T. Lewis. 2009. Black and Brown Bear Activity at Selected Coastal Sites in Glacier Bay National Park, Alaska: A Preliminary Assessment Using Noninvasive Procedures. USGS Administrative Report.
- Quinn, T.P., Carlson, S.M., Gende, S.M., H.B. Rich. 2009. Transportation of Pacific salmon carcasses from streams to riparian forests by bears. *Canadian Journal of Zoology* 87: 195-203.

- Whitely, A.R., Gende, S.M., Gharrett, A.J., and D.A. Tallmon. 2009. Background matching and color-change plasticity in colonizing freshwater sculpin populations following rapid deglaciation. *Evolution* 63: 1519-1529.
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2009 Research Projects

Project Title	Project Leader(s)	Affiliation
Monitoring Harbor Seal Population Status in Glacier Bay National Park, Alaska	Jamie Womble	NPS - Southeast Coastal Cluster
Monitoring Glacier Bay Oceanographic Patterns	Lewis Sharman	NPS - GLBA
Long-term Tidewater and Terrestrial Glacier Dynamics, Glacier Hydrology, and Holocene and Historic Glacier Activity and Climate Change in Glacier Bay National Park and Preserve	Dan Lawson, Greg Wiles	CRREL/ College of Wooster, Ohio
Colonization and Development of Biotic Communities in Streams following Glacial Recession	Alexander Milner	B'ham Univ. (UK)
Monitoring Air Quality in the Southeast Alaska Network: Linking Ambient and Depositional Pollutants with Ecological Effects	Dave Schirokauer, Lewis Sharman	NPS - KLGO and GLBA
Effects of Food-limitation in a High-density Moose Population on the Gustavus Forelands, Alaska	Kevin White	ADF&G
Characterize Fish Population, Habitat, and Movement above Falls Creek Hydropower Development	Chad Soiseth	NPS - GLBA
Collection of Social Information Necessary for Resource and Visitor Management in the Backcountry of Glacier Bay National Park and Preserve: An Assessment of the Impacts, if any, of a Proposed Increase in Seasonal Use Days of Cruise Ships upon Visitors' Experiences	Jane Swanson	Univ. of WA
Interactions Between Sea Otters and the Nearshore Communities in Glacier Bay	Jim Bodkin	USGS - ASC
Inventory and Control of Exotic Invasive Plants at Glacier Bay National Park and Preserve (GLBA)	Whitney Rapp	NPS - GLBA
Marine Invasive Tunicate Settlement Plate Study	Whitney Rapp	NPS - GLBA
Quantifying Bartlett River Coho Salmon Escapement and Run Timing in Glacier Bay National Park	Chad Soiseth	NPS - GLBA
Killer Whale Population Assessment and Photo-identification of Winter Humpback Whales in Northern Southeastern Alaska	Dena Matkin	Independent
Population Characteristics of Humpback Whales in Glacier Bay and Adjacent Waters	Chris Gabriele	NPS - GLBA
Underwater Acoustic Monitoring in Glacier Bay	Chris Gabriele	NPS - GLBA
Re-sampling of Fastie Permanent Vegetation Study Plots	Chris Fastie	Middlebury College, VT

Project Title	Project Leader(s)	Affiliation
Steller Sea Lion Brand-resighting and Scat Collection in Glacier Bay National Park	Lauri Jemison	ADF&G
Temporal Variations in Uplift in the Glacier Bay Region	Jeffrey Freymueller	Univ. of AK-Fairbanks, Geophys. Inst.
Plate Boundary Observatory (PBO) Component at Cape Spencer Lighthouse in Glacier Bay National Park to Monitor Tectonic and Magmatic Process Using High Precision Global Positioning Systems (GPS)	Michael Jackson	UNAVCO
Tsunami Hazard Mitigation Project	Robert Grove	Univ. of AK-Fairbanks, Geophys. Inst.
Quantifying Frequency and Severity of Interactions Between Cruise Ships and Marine Mammals in Glacier Bay National Park	Scott Gende	NPS – Southeast Coastal Cluster
Brown Bear Distribution Model and Disturbance Study, Glacier Bay, Alaska, 2009-2011	Tania Lewis	NPS-GLBA/ UAF
Numerical and Behavioral Response of Kittlitz’s Murrelets (<i>Brachyramphus brevirostris</i>) and Marbled Murrelets (<i>B. marmoratus</i>) to Rapid Deglaciation in an Alaskan Fjord	Matt Kirchhoff	Audubon Alaska
Coastal Biodiversity Survey	Peter Raimondi	U.C. Santa Cruz
Population Abundance and Trend of Marbled Murrelets and Kittlitz’s Murrelets in Glacier Bay National Park	Matt Kirchhoff	Audubon Alaska
Contaminants Assessment and Monitoring of Intertidal Resources in Southeast Alaska National Parks	David Tallmon	Univ. of AK-Southeast
Development of Coastal Monitoring Protocols and Process-based Studies for Intertidal Assemblages of Glacier Bay National Park and Preserve	Gail Irvine	USGS – Alaska Science Center
Invasive Green Crab Monitoring	Whitney Rapp	NPS - GLBA
Opportunistic Lichen Inventory and Baseline Air Quality in Glacier Bay National Park and Preserve	Chiska Derr	[previously] NPS - Southeast Alaska I&M Network (SEAN)
Rapid Evolution of Freshwater Sculpins in Recently Deglaciated Streams	David Tallmon, Andrew Whiteley	Univ. of AK-Southeast
Steller Sea Lion Pup Branding in Glacier Bay National Park	Lorrie Rea	ADF&G
Maintain Alsek River Gaging Station	Edward Neal	USGS
Southeast Alaska Current Survey FY08 – Glacier Bay National Park	Patrick Burke	NOAA/NOS/OCS
NOAA Bathymetric Survey of the Upper Arms of Glacier Bay	Corey Allen	NOAA/NOS/OCS

Project Title	Project Leader(s)	Affiliation
Marine-Terrestrial Transitions, Volcanic, and Paleoclimate History of Southeast Alaska	Susan Karl	USGS – Alaska Science Center
Phylogeography and Landscape Genetics of Boreal Toads	Jennifer Moore	Univ. of AK - Southeast
Steller Sea Lion Brand-resighting and Scat Collection in Glacier Bay National Park	Lorrie Rea	ADF&G
Development of a monitoring protocol for Kittlitz's Murrelets	Brendan Moynahan	NPS - Southeast Alaska I&M Network (SEAN)
Marine Invasive Tunicate Settlement Plate Study	Whitney Rapp	NPS - GLBA
The Effectiveness of Interpretation Programs in Southeast Alaska Parks	Doug Knapp	Indiana University