

CPS Polar Bear Interaction Plan

Introduction

This plan is meant to help guide researchers and CPS staff in dealing with polar bears should they encounter them while working or living in the Arctic. It is important that personnel understand the protected status of polar bears and know how to avoid and/or manage encounters with these animals.

Researchers and CPS staff must follow the legal guidelines established by the United States to protect polar bears. In other countries, the National Science Foundation (NSF) strongly recommends compliance with the policies of the host nation as researchers and CPS staff may be subject to enforcement by the cognizant foreign government.

Polar Bears, the MMPA and the ESA

In the United States polar bears are protected under the Marine Mammal Protection Act (MMPA), and are listed as a threatened species under the Endangered Species Act (ESA). Both Acts prohibit the “take” of polar bears without authorization. “Take” includes disturbance and harassment, as well as physical injury and killing.

Certain actions may be taken to deter a bear as long as they meet the guidelines outlined in this document and do not cause any harm or injury to the animal. Under the MMPA, a polar bear may be killed only if such action is imminently necessary in defense of life. The MMPA and ESA apply to all personnel working in Alaska. In other countries, the relevance of the Acts to activities funded by the U.S. Government (i.e., work done by NSF grantees and contractor employees) is open to interpretation; therefore, we recommend compliance regardless of location with the understanding that host country laws governing the protection of polar bears take precedence.

It is not CPS’ intention to harass bears in order to accomplish our work. For many of our work locations, it is unlikely we will encounter bears, and for those areas where the likelihood is higher, we recommend the use of trained bear guards. Should a group encounter a bear, they should leave the area immediately and reassess the situation.

Minimizing encounters

The general methods for minimizing human-bear conflicts are these:

- 1) minimize attractants,
- 2) detect bears early and avoid close encounters, and
- 3) recognize and respond appropriately to polar bear behavior.

In addition, larger groups will generally be safer than smaller groups. Working and/or traveling alone is highly discouraged.

1. Minimize attractants

When traveling: avoid carrying bear attractants such as strongly scented foods, fish, meat, or other aromatic products with you. If you must carry attractants, store them in air-tight

containers or bags to minimize odors. Consider carrying all foodstuffs in “bear-resistant” containers.

When camping:

- Keep food, garbage and other attractants in bear-resistant containers and maintain a clean camp. Wash kitchen equipment after every use, minimize excess food waste, and properly dispose of garbage.
- Remove unnecessary attractants from camp on a regular basis (e.g., garbage, animal carcasses, excess anti-freeze, petroleum products etc.).
- Locate latrines away from camp; and consider using an electric fence and/or trip wires as additional protection in and around camp.
- Never allow a bear to receive food as a reward. Food-rewarded bears will become problem bears for you or someone else in the future.

2. Detect bears early and avoid close encounters

Avoid camping or lingering in high-use polar bear areas such as river drainages, coastal bluffs, and barrier islands. Any travel on sea ice warrants heightened awareness.

When in polar bear habitat, look out for bears. Sighting a bear far in advance of an encounter provides more options for avoiding it.

- Before landing a plane, search the area for bears from the air.
- Before disembarking a boat, spend time scouting the coast for bears.
- Before stopping a vehicle, scout the area around you.
- If leaving a building or shelter, study the surroundings to make sure a bear is not nearby.
- If pack ice moves on or close to shore be especially aware. Think of it as a conduit for bears. Bears will frequently move off of pack ice and onto land in search of food, or may become stranded if the ice shifts off shore.

When traveling, all personnel should continuously be on the look out for bears. If one is spotted, adjust your route to avoid it or backtrack to the safety of your camp, vehicle or boat.

When at a work or camp site, one or more persons may be assigned to scan the area for bears. Other persons at the site should also stay aware and examine their surroundings even if they are not the official lookout. Diligence is everybody’s responsibility. This monitor position can be rotated among personnel and, depending on a number of factors such as likelihood of bear encounters, visibility, and the accessibility of bear-proof shelters, the assigned bear lookout can either be on continuous watch or sweep the area at arranged intervals.

The lookout may also patrol the periphery of an area in a vehicle in order to see more. The noise created by the vehicle can also act as a deterrent to a bear.

Consider using binoculars. They improve the ability to spot bears at a distance, increasing the probability you will detect a bear before a bear detects you, thus giving the group an advantage in reacting to the presence of a bear.

Be aware of current and prevailing wind direction. A bear down wind of you can detect you or your camp from miles away. Also, curious bears will often approach from the down wind direction. Avoid spending much time in a location where the area down wind is obstructed visually by rough ice, a knoll or other barriers.

If you spot a bear, observe its behavior. This will help you determine what actions to take. Actions may include:

- Further observation of the bear.
- Alerting others to the bear's presence.
- Leaving the area and/or moving to a safe location, shelter or vehicle.
- Creating noise e.g., starting a motor, sounding a horn etc., to deter the bear from approaching.

Avoiding bears should always be your first option. If the bear is unaware of you, leave the area. If it is aware, stay together and leave the area immediately or go to a safe spot such as a vehicle or hard-sided building. Do not run from a bear as this could trigger a predatory response.

Once you've reached safety, immediately notify police or the local wildlife officer. Obtain contact information from your primary CPS point of contact.

3. Recognize and respond appropriately to polar bear behavior

If a polar bear is sighted, it is important to observe its behavior, as this will determine your actions. A bear that becomes aware of your presence may stop what it was doing and begin turning its head and sniffing the air in your direction. Typically polar bears exhibit the following behaviors:

- *Curious* polar bears will move slowly and stop frequently to sniff the air. They will move their heads around to catch a scent, or hold their heads high with ears forward. They may also stand up.
- *Threatened or agitated* polar bears may huff (exhale heavily or loudly), snap their jaws together and stare at you or the perceived threat. Their head will be lowered below shoulder level, swaying from side to side with ears pressed back. This is a signal for you to begin backing away from the bear and withdrawing from the area. Ignore this behavior, and the polar bear may charge. A bear protecting young or a carcass is likely to display this type of behavior. Threatened animals may also retreat.

- A *predatory* bear may be encountered in rare instances. It may be found sneaking or crawling up on the object it considers prey or it may approach in a straight line at a constant speed without exhibiting curious or threatened behavior. This suggests the bear may attack. In this case you should stand your ground, group together, shout, and wave your arms in an attempt to halt the bear's approach. You should also be prepared to deploy any other deterrents you have available.

Never run from a bear, as running can trigger the animal's prey response. Experts also believe that if attacked, you should always fight back with a polar bear no matter its behavior. Use any deterrents and concentrate on hitting the nose and eyes since they are the most sensitive. There are stories of bears retreating after having been hit in the nose. If a surprised female attacks to defend her cubs, remove yourself as a threat if possible.

Deterring polar bears

Any time you are in an approaching bear's path your first choice of action should be to get out of the way. The same is true should you find yourself between a mother and her cubs. If it is not possible to move or the bear follows you, stand your ground. Attempt to make yourself look bigger by waving a jacket or other objects above your head. Group up, discuss your course of action and make noise to discourage the approach. Prepare your deterrents should the bear continue to approach. Have back-up shooters ready if the primary person is involved in deterring the bear with nonlethal means.

Bear deterrents include:

- Grouping together and/or trying to look bigger e.g., by holding a large staff or clothing up
- Shouting or making other loud noises – air horns, engine noises, bear bangers, etc.
- Pencil launchers for flares or bangers
- Pistol launchers for flares, bangers, screamers, sparklers or blanks (cracker shells)
- Bear spray
- Firearms

Nonlethal deterrents (that pose no harm or injury to the bear) may be used by any person for the protection of life and property.

Lethal deterrents such as firearms may only be used in defense of life. Anyone planning to carry a gun in polar bear terrain should be properly trained. CPS staff: please refer to the Arctic Research Support and Logistics Services Program (ARSLS) Firearm Safety Plan for Greenland and Alaska. The plan requires firearm training for CPS staff and strongly encourages it for researchers prior to bringing a firearm into the field. Talk with your supervisor if you would like a copy of the plan. The plan requires firearm training for CPS staff and strongly encourages it for researchers prior to bringing a firearm into the field.

Deterrents with the potential to harm or injure a bear, such as pencil and pistol launchers, should only be used by people trained and practiced in their use. Misuse of these devices can potentially



harm a bear or person. Properly used, these devices may be used in the protection of life and property.

Bear guards

Barrow

CPS partner UMIAQ employs experienced bear guards. These personnel can accompany researchers into the field. Barrow is the only field location where CPS offers bear guard support.

Other locations

Researchers may choose to hire a local guard to accompany their field team. Researchers are responsible for identifying, hiring and paying bear guards; CPS does not provide these services.

If researchers do not have funding in their logistics grant to hire bear guards, they may be reimbursed via expense report if their request has prior approval through CPS/NSF. The researcher must provide an invoice and proof of payment submitted on an expense report.

Specific reporting guidelines for Greenland

Firearms may only be used against a polar bear in self defense. It is generally considered illegal to shoot polar bears and actions should be taken to avoid killing the animals. If possible, contact the following before making a decision to kill a polar bear:

Amalie Jessen, Head
Ministry of Fisheries, Hunting and Agriculture
Phone: +299 345304
Mobile: +299 553342
Email: apnn@nanoq.gl, amalie@nanoq.gl

Outside the national park: If a polar bear is killed outside the national park, the local police and gamekeeper/ranger must be informed. A detailed report, including photos and a description of events must be sent to the following:

1. Chief Constable of Greenland (politi@politi.gl)
2. Ministry of Fisheries, Hunting and Agriculture (apnn@nanoq.gl)
3. Ministry Domestic Affairs, Nature and Environment (exp@nanoq.gl)

The polar bear carcass will be confiscated by the police as evidence.

Inside the national park: If a polar bear is killed inside the national park, contact these agencies:

1. Sirius patrol, which has police authority
Email: Sirius@glk.gl

2. Greenland Island Command and Coordinator for Land Operations with Sirius patrol
Morten Gormsen
landops@glk.gl
Phone: +299 691955 Ext. 130



Mobile: +299 542734

Thule Air Base: When a bear is sighted at Thule, the base is notified via the community broadcast system, which consists of loudspeakers throughout the base. Depending on the proximity of the sighting, all base staff may be instructed to remain indoors until the danger has passed. Local security/police will chase bear(s) out of the area with vehicles and will broadcast when it is safe to go outdoors again.

Specific reporting guidelines for Alaska

If a polar bear taking occurs (as defined by the MMPA) you must report it as soon as possible within 24 hours. Contact the U.S. Fish and Wildlife Service (USFWS) and, if the incident occurs on the North Slope, the North Slope Bureau Department of Wildlife as well. If an UMIAQ bear guard is present, reporting is his/her responsibility. A polar bear observation report form is available.

These are the USFWS contacts:

Craig Perham

Craig_perham@fws.gov

Phone: (907) 786-3810

Chris Putnam

Christopher_putnam@fws.gov

Phone: 907-786-3844

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US Fish and Wildlife Service Marine Mammals Management Office
1011 East Tudor Road
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