**Why:** We are documenting the seasonal ranges used by Teshekpuk caribou to identify important habitats and key migratory routes used by the herd as a way to make informed decisions about land use on the Arctic coastal plain.

**HOW:** We live capture caribou using a net-gun fired from a helicopter, restrain the caribou, and attach a Global Positioning System (GPS) collar on male and female caribou. These collars are programmed to transmit locations to satellites which relay the coordinates to a central processing facility. Collared caribou are then recaptured 2-3 years later, depending on collar battery life, and the collar is removed and the caribou is potentially refitted with a new collar.

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**DISCUSSION**

- Prior to 1990 we had no understanding of seasonal ranges utilized by Teshekpuk caribou.
- Teshekpuk caribou are unique compared to the 3 other herds that calve along the North Slope in that roughly 40% of the herd remains on the North Slope in the winter.
- We identified that roughly 50% of the herd moves through narrow corridors to the east, and 40% to the west, of Teshekpuk Lake between June and July. This suggests that we should attempt to mitigate impacts from infrastructure in this area.
- Rates of travel by caribou provide baseline data to compare to potential impacts from industrial activity and changes in climate.

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**Acknowledgements:** Funding for this project was provided by the North Slope Borough Department of Wildlife Management, the State of Alaska Department of Commerce, Community, and Economic Development, the Bureau of Land Management, and the Alaska Department of Fish and Game. Many people have assisted with this project but it would not have been possible without the assistance of Geoff Carroll, Lincoln Parrett, Dave Yokel, and Alex Pritchard. For more information, contact Brian Person at 852-0350 or brian.person@north-slope.org