



APPENDIX

Inuit Qaujimajatuqangit and community knowledge:

1. Inuit Qaujimaningit Nanurnut/Inuit knowledge of Polar Bears – A Project of the Gjoa Haven Hunters' and Trappers' Organization – Prepared by Darren Keith with Jerry Arqviq, Louie Kamookak, Jackie Ameralik and the Gjoa Haven Hunters' and Trappers' Organization. This document provides IQ on movements of polar bears and hunter's local observations and thoughts on polar bear natural history in the area.
2. Canadian Wildlife Service Nunavut Consultation Report (2009). This report documents comments from communities regarding polar bears in Nunavut.

Western science information:

1. According to the 2013 Polar Bear Administrative Committee approved Polar Bear Technical Committee Polar Bear Status table, the recent trend for M'Clintock Channel was assessed as likely increase.
2. According to the 2013 World Conservation Union Polar Bear Specialist Group Polar Bear Status table, the current trend for M'Clintock Channel was assessed as increasing.
3. Van Coeverden de Groot et al. 2013 detected 59-82 individuals from a relatively small area in M'Clintock Channel using a non-invasive polar bear hair snagging project.
4. Two population viability analyses were conducted with RISKMAN (version 1.9.007), which resulted in a result of 390 animals based on a number of assumptions but primarily influenced if a stable age distribution was assumed and 490 animals if a stable age distribution was not assumed. A similar result was obtained with RISKMAN (version 1.9.9.34) for Simulation 1. However, simulation 2 could not be confidently replicated in version 1.9.9.34 due to some technical uncertainties. Please note that version 1.9.9.34 is not publicly available and is not considered to have been completed.
 - a. Simulation 1 projects approx. 380 animals in 2014 based on the following assumptions:
 - i. Initial population = 284 (SE = 59.3)
 - ii. Start with the stable age distribution
 - iii. Total Allowable Harvest from 2000 to 2014 = 3
 - iv. A Sex selective harvest (proportion of females = 0.33)
 - v. Recruitment values taken from Taylor et al. 2006
 - vi. Survival values taken from Taylor et al. 2006

