

## Admiralty Inlet 2010

- The previous surveys of Admiralty Inlet were conducted in August 2003. At that time, it was estimated that 5,262 (95% C.I. 1,920-12,199) narwhals were summering there. The 2003 surveys had large confidence intervals and were thought to be biased by weather conditions and severe clumping of narwhals.
- In August 2010, two aerial surveys of Admiralty Inlet were completed using an adaptive sampling plan which combined visual line-transect sampling of the entire Inlet and aerial photography of aggregations.
- Combining the two survey results from 2010, using an effort weighted mean, gave an estimate of 18,049 (CV=0.23, 95% C.I. =11,613-28,053) narwhals.
- For the Admiralty Inlet stock, Potential Biological Removal (PBR) for the combined 2010 estimate was 299 narwhals. The total allowable landed catch (TALC), corrected to include hunting losses, was 233 narwhals.
- This stock summers in Admiralty Inlet, winters in Baffin Bay and migrates between these areas during spring and fall. The PBR and TALC apply over the whole range of the stock.