

Thursday 6 January	
8:00-8:15	11th North American Arctic Goose Conference Opening comments – Jim Sedinger
HARVEST DERIVATION SYMPOSIUM Organizers: Kim Scribner, Sandra Talbot, and Dirk V. Derksen	
8:15–8:25	Opening Remarks -, Kim Scribner
Part I: Data needs and sources of Information	
Moderator: Sandra Talbot	
8:25-8:40	James O. Leafloor. Use of harvest derivation techniques in goose management.
8:40-8:55	Paul I. Padding, Elwood M. Martin, Daniel J. Nieman and Jack Smith. What information can waterfowl parts collection surveys provide for goose research and management?
8:55-9:10	James B. Shaklee, Sewall F. Young, and David J. Teel. Creating and applying standardized genetic data sets for natural resource management: insights and lessons from the pacific salmon experience.
Part II : Analytical tools and statistical inference	
9:10-9:25	Jerry W. Hupp and Craig R. Ely. Morphology and plumage as a basis for subspecific and population discrimination.
9:25-9:40	James D. Nichols and J. Andrew Royle. Methods for estimating derivation of harvest based on marked individuals.
9:40-9:55	Keith A. Hobson. Using stable isotope measurements of feathers to determine origin of molt in north american geese: a review and implications for management.
9:45-10:15	BREAK
Moderator: Dirk V. Derksen	
10:15-10:30	Michele M. Masuda, Jerome J. Pella, and Kim T. Scribner. Estimating population composition of mixed harvests and individuals' sources from their traits.
10:30-10:45	William Punch, Kim Scribner, Tim Moser, and Alexander Topchy Machine learning methods of individual classification based on continuous and discrete data.
Part III: Empirical data	
10:45-11:00	Craig R. Ely, Judy Gust, and Sandra Talbot. Intra-specific phenotypic and genetic variation in greater white-fronted geese: population, flyway, and continental variation.
11:00-11:15	Kim T. Scribner and Rainy I. Shorey. Variation in snow and Ross's geese at species, subspecies, and population levels across North America.
11:15-11:30	Sandra L. Talbot, Dave H. Ward, Kathryn Dickson, and Sean Boyd Phenotypic and genetic variation in nearctic breeding brant: assessment of markers for admixture analysis.
11:30-11:45	Kim T. Scribner, Rainy I. Shorey, and Sandra L. Talbot. Variation in Canada geese at species, subspecies, and population levels across North America.

11:45- 1:15	LUNCH
1:15-1:20	11th North American Arctic Goose Conference Comments – Jim Sedinger Plenary Introduction – Joel Schmutz
1:20-2:20	PLENARY 1 – Dr. Tony Fox. Department of Wildlife Ecology and Biodiversity, National Environmental Research Institute, Kalø, Grenåvej 12, DK-8410 Rønde, Denmark. Recent changes in abundance amongst geese wintering in the Western Palearctic.
PAPER SESSION 1 – MIGRATION AND WINTERING ECOLOGY Chair: Joe Fleskes USGS Dixon Field Station	
2:20-2:40	Sean Boyd and Kate Hagmeier. Body condition of Pacific Black Brant using the abdominal profile index (API) as a measure of fat accumulation during spring migration in British Columbia.
2:40-3:00	Jerry Hupp, Ryan Nielson, and David Safine. Effects of variable crowberry production on autumn-staging Cackling Geese.
3:00-3:20	Danielle Mather*, Perry S. Barboza and David Ward. Body composition dynamics in Pacific Black Brant wintering in Alaska and Baja California.
3:20-3:40	Kendrew Colhoun, James Robinson, Gudmundur Gudmundsson and Preben Clausen. Migratory behaviour of Eastern Canadian High Arctic Light-bellied Brent Geese tracked using satellite telemetry.
3:40-4:00	BREAK
4:00-4:20	Jón Jónsson** and Alan Afton. Snow geese wintering in southwest Louisiana use two distinct habitats – is there evidence for separate populations?
4:20-4:40	David Ward, Lee Tibbitts, James Sedinger, Sean Boyd, and Jim Hines. Population Structure and Migration Chronology of Wintering Brant Black.
4:40-5:00	Katherine Hagmeier, Barry Smith, and Sean Boyd. Estimating volumes of Black Brant during spring migration using long-term datasets.
5:00-5:20	Manuel Ochoa Barraza, Alberto Tarrazas, Rod Drewien*, John Taylor (deceased), Michael Spindler, and Debra Webb. Winter distribution of Greater White-Fronted Geese in the interior highlands of Mexico.
5:20-5:40	Local committee notes and updates
Friday 7 January	
8:00-8:05	Announcements – Jim Sedinger Plenary Introduction – Jim Leafloor
8:05-9:05	PLENARY 2. Dr. Robert M. Zink. Bell Museum, Univ. of Minnesota, What, if any, are the taxonomic, evolutionary and conservation roles for

	subspecies?
PAPER SESSION 2 – LIFE HISTORY	
Chair: Jim Leafloor - Canadian Wildlife Service	
9:05-9:25	Todd Boonstra* , Mark Clark and Wendy Reed . Effects of Maternal investments on egg metabolic rates, hatching synchrony and offspring performance in Canada Geese (<i>Branta canadensis</i>)
9:25-9:45	Michael Sertle and Michael Eichholz . Nesting success, gosling growth, and adult body condition of giant Canada Geese in southern Illinois.
9:45-10:05	Kiel Drake* and Ray Alisauskas . Experimental effects of nest success on breeding site fidelity in a capital breeder.
10:05-10:25	BREAK
PAPER SESSION 3 – GRAZING ECOLOGY	
Chair: Jim Leafloor	
10:25-10:45	Richard Inger* , Graeme Ruxton , Stuart Bearhop , and James Robinson . Factors affecting prey choice in a despotic herbivore: using individuals to predict a population response.
10:45-11:05	Jeffrey Gleason , Kenneth Abraham , David Ankney , and James Leafloor . Canada Goose brood-rearing behavior: further evidence of nutrient limitation on Akimiski Island, Nunavut.
11:05-11:25	Scott McWilliams and James Leafloor . Effects of elevated CO ₂ on keystone herbivores in modern Arctic ecosystems.
11:25-11:45	Dries Kuijper and Martin Loonen . Depletion of food plants by Branacle geese.
11:45-1:15	LUNCH
	Announcements – Jim Sedinger Plenary Introduction - Mark Lindberg
1:15-2:15	PLENARY 3: Dr. Craig R. Ely , Alaska Science Center, U. S. Geological Survey. Influence of breeding chronology, competition, and landscape heterogeneity on growth rates and survival of arctic-nesting geese: a non-colonial perspective.
PAPER SESSION 4 – BREEDING ECOLOGY	
Chair: Mike Samuel - Wisconsin Cooperative Wildlife Research Unit	
2:15-2:35	Frank Baldwin* , James Leafloor , Ray Alisauskas . Canada geese in a Ross's goose colony; a protective nesting association?
2:35-2:55	Julien Mainguy* , Gilles Gauthier , Jean-François Giroux , and Joël Bêty . Long distance brood movements in Greater Snow Geese: effects on gosling growth and survival.
2:55-3:15	Marie-Hélène Dickey* and Gilles Gauthier . Effect of climatic variables on the phenology and reproductive success of Greater Snow Geese.
3:15-3:35	BREAK
3:35-3:55	Christopher Nicolai* , James Sedinger , and Jason Schamber . Consequences of individual choice of brood rearing areas and carryover effects of these decisions on reproductive measures in Black Brant.
3:55-4:15	Vasiliy V. Baranyuk . Warming of Arctic and Wrangel Island Snow Goose Population.

4:15-4:35	Gustaf Samelius* , Ray Alisauskas , Keith Hobson , and Serge Larivière . Arctic Fox Diets Revealed through Stable Isotopes: the Importance of Cached Foods.
4:35-4:55	Götz Eichhorn , Vsevolod Afanasyev , Henk van der Jeugd , and Rudi Drent . Breeding in relation to upstream stopovers in barnacle geese, an individual-based study relying on resightings and geolocators.
6:30	POSTER SESSION
Saturday 8 January	
8:00-8:05	Announcements – Jim Sedinger Plenary Introduction – Rocky Rockwell
8:05-9:05	PLENARY 4 – Dr. Evan G. Cooch , Department of Natural Resources, Cornell University. Adaptive goose harvest management: not just for ducks.
PAPER SESSION 5 – POPULATION DYNAMICS, STATUS, AND MANAGEMENT Chair: Mark Lindberg – University of Alaska Fairbanks	
9:05-9:25	Ray Alisauskas , Robert Rockwell , Dale Caswell , Evan Cooch , Kiel L. Drake , Stuart M. Slattery , Dana K. Kellett , James O. Leafloor , and Eric Reed . Effect of population reduction efforts on survival of mid-continent Lesser Snow Geese.
9:25-9:45	Gilles Gauthier , Anna Calvert , and Eric Reed . Impacts of special conservation measures on demographic parameters in Greater Snow Geese.
9:45-10:05	Ray Alisauskas , Kiel Drake , Stuart Slattery , and Dana Kellett . Neckbands, harvest, and survival of Ross's geese from Canada's central arctic.
10:05-10:25	BREAK
10:25-10:45	F. Dale Caswell¹ and Katherine M. Meeres² Lesser Snow Goose population trends across the nesting colonies – An Update.
10:45-11:05	Joel Schmutz , Bryce Lake , and Julie Morse . Harvest and climate influences on annual survival and breeding propensity of Emperor Geese.
11:05-11:25	David Miller* , James Grand , Thomas Fondell , Martin Drut , and Robert Trost . Seasonal estimate of survival, detection, and observability for Dusky Canada Geese.
11:25-11:45	Jason Caswell* , Jim Leafloor , and Ray Alisauskas . Neckband hunting - can it affect survival estimates?
11:45-1:15	LUNCH
POPULATION DYNAMICS, STATUS, AND MANAGEMENT Continued Chair: Joel Schmutz - Alaska Science Center - USGS	
1:15-1:35	Paul Conn* , William Kendall , Michael Samuel . A general model for the analysis of mark-resight, mark-recapture, and band recovery data under tag loss.
1:35-1:55	Bryce Lake* , Mark Lindberg , Joel Schmutz , Craig Ely , Michael Anthony , William Eldridge , and Fred Broerman . Spatial and temporal

	variation in body mass of prefledging Emperor Geese: Effects of interspecific goose densities and grazing lawn availability.
1:55-2:15	Kiel Drake* and Ray Alisauskas. Breeding dispersal by Ross's Geese in the Queen Maud Gulf metapopulation.
2:15-2:35	Nicholas Lecomte*, Gilles Gauthier, Louis Bernatchez, Jean-François Giroux. Population structure of a Greater Snow Goose colony.
2:35-2:55	Sandra Talbot, George Sage, Judy Gust, Jolene Rearick, David Ward, Sean Boyd, Kathy Dickson, and James Robinson. Genetic analysis of North American Brant populations.
2:55-3:15	Christopher Williams, Michael Samuel, Vasily Baranyuk, Evan Cooch, and Don Kraege. Winter fidelity and apparent survival of Lesser Snow Goose populations in the Pacific Flyway.
3:15-3:35	BREAK
3:35-3:55	Leif Nilsson. Recent changes in number and distribution of the Taiga Bean Goose <i>Anser fabalis fabalis</i> in northwestern Europe.
3:55-4:15	Barwolt Ebbinge. Poor breeding causes persistent decline in Dark-bellied Brent Geese.
4:15-4:35	Anne Mini* and Jeffery Black. Expensive management: quantifying the costs of an active hazing program in Aleutian Canada Geese.
4:35-4:55	Michael Samuel, Diana Goldberg, Daniel Shadduck, William Johnson, and Michael Spindler. Reservoirs for avian cholera: wetlands vs. birds.
4:55-5:15	Julie Blanchong, Michael D. Samuel, and Gene Mack. Multi-species patterns of avian cholera mortality in Nebraska's Rainwater Basin.