Index to Volume 133
Compiled by William Halliday

Achyranthes japonica, 56
Alaska,
  Adak, 49
  Aleutian Islands, 49
  Amchitka, 49
  Attu, 49
  Brooks Range, 151
Alberta,
  Central, 309
  North-Central, 1
  Northeastern, 189
  Albinism, 113
Alces americanus, 329
Ambystoma laterale, 43
Ammodites personatus, 144
Amphibians, 43, 101, 193, 196
Anderson, R.B., 1
Annual Reports of OFNC Committees for October
  2017–September 2018, 90–95
Ant(s), 309
Araceae, 139
Area(s), Protected, 43, 206, 313
Attraction, Conspecific, 235
Axanthism, 196

Balaenoptera acutorostrata, 144
Barbara
  orthoceras, 118
  stricta, 118
  verna, 118
Barber-Meyer, S.M., 343
Bat, Hoary, 125
Batch, 325
Bay, Hudson
Bear, Brown, 151
Beaver, American, 332
Behaviour, 235
  Hunting, 16
  Singing, 28
  Swimming, 25
Bellan, L., 305
Biogeography, 156, 206
Bioindicators, 206
Biomass, Below Ground, 364
Bird(s), 20, 28, 167, 235, 301, 305, 352
  Cavity-nesting, 352
  Paridae, 28
Blaney, C.S., 118
Body, Fat, 34
Bondrup-Nielsen, S., 329
Boudreau, M.J., 329
Boyle, S.P., R. Dillon, J.D. Litzgus, D. Lesbarrères.
  Desiccation of herpetofauna on roadway exclusion fencing, 43–48
Brassicaceae, 118
  Monitoring Rock Ptarmigan (Lagopus muta) populations in the Western Aleutian Islands,
  Alaska, 49–55
Breeding, 20, 301
  Time of, 352
British Columbia, 156
  Cormorant Island, 144
  Haida Gwaii, 352
  Hecate Strait, 263
  Kamloops, 28
  Kelowna, 28
  Kootenays, 221
  Williams Lake, 28
Brodo, I., 96
Brunton, D.F. A practical technique for preserving specimens of duckmeal, Wolffia (Araceae), 139–143
Bullfrog, American, 43, 196
California, Sierra Nevada Mountains, 34
Callospermophilus lateralis, 34
Cambaridae, 160
Cameron, M.D., 151
  Conspecific cues encourage Barn Swallow (Hirundo rustica erythrogaster) prospecting, but not nesting, at new nesting structures, 235–245
Canis, 16
  latrans var., 329
  lupus, 60, 343
Carnivore, 16
Castor canadensis, 332
Catfish, Flathead, 372
Cavity-nesters, 352
Cavity-nesting, 352
Cedar, K., 160
Cetacean, 144, 263
Chaff-flower, Japanese, 56
Chapman, C.J., C.S. Blaney, D.M. Mazerolle. Winter-cresses (Brassicaceae) of the Canadian Maritimes, 118–124

Chelydra serpentina, 216
Chickadee, Mountain, 28
*Chromis* neogaeus, 105
*Chrysemys picta*, 216
Chub,
- Creek, 325
- Hornyhead, 325
Cipriani, J., 96
*Clupea pallasi*, 144
Cobb, T.P., 189
Colm, J.E., 372
Colouration, 301
- Leucistic, 301
Communication, 28
Competition, Interspecific, 105
Condition, Body, 34
Conductivity, Total Body Electrical, 34
Conservation, 118, 206, 235
Coyotes, Eastern, 329
Crayfish, 160
Cruciferae, 118
*Cucumaria frondosa*, 113
Cues, Social, 235

Cyprinidae, 325

Dace,
- Blacknose, 325
- Finescale, 105
- Northern Pearl, 325
Dar, S., 130
Decapoda, 160

Den, 1

Deer,
- Decoy, 16
- White-tailed, 16, 246, 343
DeMaynadier, P.G., 196
Depredation, 60
Design, BACI
Dibblee, R.L., 332
Diet, 151, 329
Dillon, R., 43
Dispersal, 136, 332

Distribution, 60, 130, 156, 160, 189, 199, 221
Diversity, Colour, 113

Duck, 167
Duclos, I., 130
Dynamics, Population, 253

Ebbert, S.M., 49
Ecology, Road, 43, 101
Editors’ Report for Volume 132 (2018), 298–300
Effects, Ecosystem, 364
Electrofishing, 372
Emydoidea blandingii, 216
Erethizon dorsatum, 25
Excavators, 352
Expansion,
- Host, 309
- Range, 309
Extension, Range, 56, 156, 160, 189, 199, 221, 309

Fat, 34
Feeding, 144
Fencing, Exclusion, 43

Festarini, A., 305
Fire, 313
Prescribed, 253
Fish, 105, 151, 325, 372
Fishing, 151
Fitness, 301
Floristics, 118
Forbes, G.J., 270
Forest,
- Boreal, 1, 206
- Great Lakes-St. Lawrence, 206
*Formica podzolica*, 309
Forsyth, R.G., 313
Frog(s), 43
- American Bull, 43, 196
- Gray Tree, 43
- Green, 43, 196
- Northern Leopard, 43, 193
- Wood, 43
Fungi, 206
Gable, D.P., 16
Gartersnake, Common, 43
Gaston, A.J., 352
Gastropod(s), 156, 313
Freshwater, 189
Terrestrial, 221
Glasier, J.R.N., 309
Glass, 305
Glon, M.G., 160
Goldfish, 105
Gosselin, I., 305
Grantham, M., 313
Grieve, L.A., 301
Grit, 305
Ground, Feeding, 144
Ground Squirrel, Golden-mantled, 34
Grouse, Sharp-tailed, 253
Gulo gulo, 1
Habitat, 1, 144
Marine, 136, 144
Nesting, 235
Restoration, 253
Hamel, C.D., 313
Hamel, J.-F., 113
Hanrahan, C., 96
Harpalejeunea molleri subsp. integra, 199
Hart, J., 60
Haughton, J., 304
Helix pomatia, 156
Hepatic, 199
Heron, J., 221
Herring, Pacific, 144
Hibernation, 34
Hinchliffe, R.P., C. Tebby, T.P. Cobb. First recorded co-occurrence of Valvata lewisi Currier, 1868 and Valvata lewisi ontariensis Baker, 1931 (Gastropoda: Valvatidae) from Alberta, Canada, with notes on morphometric and genetic variability, 189–192
Hirundo rustica erythrogaster, 235
History, 332
Holothuroidea, 113
Hotspot, 101
Hunter, M.L., Jr., 193
Hybognathus hankinsoni, 325
Hyla versicolor, 43
Impact, Environmental, 305
iNaturalist, 160
Index,
Condition, 34
Urbanization, 28
Information, Public, 235
Insectivore, Aerial, 235
Institute, Alberta Biodiversity Monitoring, 189
Introduction, Intentional, 105
Invasive, 56
Inventory, 221
Isbell, F., 60
Island(s),
Adak, 49
Aleutian Islands, 49
Amchitka, 49
Attu, 49
Campobello, 136
Cormorant, 144
East Sister, 56
Erie, 56
Mansel, 20
Middle, 56
Joly, K., 151
Jung, T.S., 130
Jung, T.S. Behaviour of a porcupine (Erethizon dorsatum) swimming across a small boreal stream, 25–27
Juvenile, 372
Kamstra, J., 156
Kamstra, J. Japanese Chaff-flower, Achyranthes japonica (Amaranthaceae), on the Erie islands, an invasive plant new to Canada, 56–59
Keefe, D.G., R.C. Perry, G.R. McCracken. First records of Finescale Dace (Chrosomus neogaeus) in Newfoundland and Labrador, Canada, 105–112
Keenlyside, D.L., 332
Kelt, D.A., 34
Kinley, T.A. Seasonal movements of White-tailed Deer (*Odocoileus virginianus*) in the Rocky Mountains of British Columbia, 246–252

Kreuzberg, E., 101

Kristmanson, H.E., 332

Krueger, J., 60

*Lacunicambarus polychromatus*, 160

*Lagopus muta*, 49

Lake(s),
  
  Erie, 56, 364
  
  Great, 372
  
  St. Clair, 372

Williams, 28

*Lasiurus cinereus*, 125


Lebrun-Southcott, Z.M., 235

Lee, D., 305

Lei, C., S.J. Yuckin, R.C. Rooney. Rooting depth and below ground biomass in a freshwater coastal marsh invaded by European Reed (*Phragmites australis*) compared with remnant uninvanced sites at Long Point, Ontario, 364–371

Lepage, D. Minutes of the 140th Annual Business Meeting (ABM) of the Ottawa Field-Naturalists’ Club, 8 January 2019, 88–89


Lesbarrères, D., 43

Leucism, 301

Leucistic, 301

Lichens, 206


*Lithobates catesbeianus*, 43, 196

*clamitans*, 43, 196

*pipiens*, 43, 193

*sylvaticus*, 43

Litter, Anthropogenic, 305

Litzgus, J.D., 43

Liverwort, 199

Livestock, 60

Lowlands, 1

Luxilus cornatus, 325

Maine, 193, 196

Mallard, 167

Mammals, 1, 16, 25, 34, 60, 125, 144, 151, 246, 263, 329, 332, 343

Management, Prairie, 253

Mandrak, N.E., 372

Manitoba, Southeastern, 313

Manzer, D.L., 1

*Margariscus nachtriebi*, 325

Marini, K.L.D., 28

Maritimes, 118

Marsh, Coastal, 364

Marson, D.M., 372

Martin, A., 298

Mass, Body, 34

Mazerolle, D.M., 118


McCacken, G.R., 105

McCurdy-Adams, H., 216

McLachlan Hamilton, K., 96

McMillan, C.J., 144

McMullin, R.T., 206

Mech, L.D., S.M. Barber-Meyer. Sixty years of White-tailed Deer (*Odocoileus virginianus*) yarding in a Gray Wolf (*Canis lupus*)–deer system, 343–351


*Megaptera novaeangliae*, 263

Mercier, A., 113

Metal, 305

Migration, 343

Millipede, Marine, 136

Minnesota, 60

Northeastern, 343

Minnow(s), 325

Brassy, 325

Minutes of the 140th Annual Business Meeting (ABM) of the Ottawa Field-Naturalists’ Club, 8 January 2019, 88–89

Mitigation, Road-effect, 43, 216

Mollusca, 156, 189, 221, 313

Monitoring, Population, 49

Moore, K., 352

Moose, 329

Morningstar, D., A. Sandilands. Summer movements of a radio-tagged Hoary Bat (Lasiurus cinereus) captured in southwestern Ontario, 125–129

Mortality, 43, 167

Motus, 125

Mountains, 151

Nahoni, 130

Richardson, 130

Sierra Nevada, 34

Movement, Seasonal, 125, 246, 263

Summer, 125

Mudbug, Paintedhand, 160

Muntz, E.M., 329

Murphy, R.K., K.A. Smith. Sharp-tailed Grouse (Tympanuchus phasianellus) population dynamics and restoration of fire-dependent northern mixed-grass prairie, 253–262

Neily, T.H., 199

Nesting, 235, 305

Cavity, 352

Nestling, 305

New Brunswick,

Campobello Island, 136

Newfoundland and Labrador, 113

Exploits River, 105

Newt, Eastern, 101

Nicolai, A., R.G. Forsyth, M. Grantham, C.D. Hamel. Tall grass prairie ecosystem management—a gastropod perspective, 313–324

Nocomis biguttatus, 325

North Atlantic, 113

North Dakota, 253

Notophthalmus viridescens, 101

Nova Scotia, 199

Cape Breton, 329

Nunavut, Mansel Island, 20

O’Brien, A.M., 196

Occurrence, Seasonal, 263

Oceanography, 263

Ochotona collaris, 130

Odocoileus virginianus, 16, 246, 343

Oncomorphus spp., 151

Ontario, 156

Eastern, 216, 305

Killarney, 16

Lake Erie, 56

Long Point, 364

Northwestern, 206

Southern, 43, 235, 301, 325

Southwestern, 125, 160, 364, 372

Ornithology, 20, 28, 167, 235, 301, 305, 352

Otter, K.A., 28

Ovaska, K., L. Sopuck, J. Heron. Survey for terrestrial gastropods in the Kootenay region of British Columbia, with new records and range extensions, 221–234

Paiero, S.M., 160

Paper, 305

Parasitism, Dulotic, 309

Park,

Cape Breton Highlands National, 329

Dâadzáii Vàn Territorial, 130

Gates of the Arctic National Park and Preserve, 151

Gatineau, 101

Herring Cove Provincial, 136

Jarvis Bay Provincial, 309

Killarney Provincial, 16

Kootenay National, 246

Nî’ïinlîï Njik (Fishing Branch) Territorial, 130

Presqu’île Provincial, 43

Sandbar Lake Provincial, 206

Pattison, V., 263

Perry, R.C., 105

Persons, T.B., 193, 196

Phragmites australis, 364

Piercey, R.S., 144

Pika, Collared, 130

Pilgrim, N.G., 263


Plants, 56, 118, 139, 199

Plastic, 305

Poecile gambeli, 28

Polyergus bicolor, 309

Population, 49, 253, 263

Porcupine, North American, 25

Survey,
  Acoustic, 28
  Aerial, 130
  Camera Trap, 1
  Electrofishing, 372
  Fyke Net, 105
  Gill Net, 105
  Hoop Net, 372
  Live Trap, 1
  Minnow Pot, 105, 325
  Passive Acoustic, 28
  Point Count, 43
  Road, 101
  Scat, 329
  Trammel Net, 372
  Transect, 329, 352
  Visual, 43, 101, 130, 144, 151, 206, 263, 329, 352
Swallow,
  Barn, 235
  Tree, 305
Tachycineta bicolor, 305
Taylor, W.P., 49
Tebby, C., 189
Telemetry,
  GPS, 1
  Radio, 125, 343
Thalassisobates littoralis, 136
Thamnophis sirtalis, 43
Thorn, R.G., 301
Towers, J.R., C.J. McMillan, R.S. Piercey. Sighting rates and prey of Minke Whales (Balaenoptera acutorostrata) and other cetaceans off Cormorant Island, British Columbia, 144–150
Treefrog, Gray, 43
Trees, Wildlife, 352
Trends, Population, 263
Tribute, 270
Turdus migratorius, 301
Turtle, 216
  Blanding’s, 216
  Painted, 216
  Snapping, 216
Tympanuchus phasianellus, 253
Urbanization, 28
Ursus arctos, 151
Use, Habitat, 144
Valvata, 189
  lewisi, 189
  lewisi ontaniensis, 189
Valvatidae, 189
Van Vuren, D.H., 34
Variant,
  Blue Colour, 196
  Pattern, 193
Viau, L., 101
Vocalization, 28
Walsh, S., J. Haughton, L. Bellan, I. Gosselin, A. Festarini, D. Lee, M. Stuart. Occurrence of anthropogenic litter in nestling Tree Swallows (Tachycineta bicolor), 305–308
Waterfowl, 167
Watson, J.A., 34
Webb, S.M., 1
Weir, River, 167
West, M., 309
Wetlands, 364
Whale,
  Humpback, 263
  Minke, 144
Willcock, A., 167
Wintercresses, 118
Wolf, 16
  Gray, 60, 343
Wolffia, 139
Wolverine, 1
Yard, Deer, 343
Yarding, 343
Young-of-year, 372
Yukin, S.J., 364
Yukon, Klondike River, 25
Zitani, N.M., L.A. Grieves, R.G. Thorn. A successful breeding, partially leucistic American Robin (Turdus migratorius), 301–304
# Index to Book Review

## Botany


Clarkin, O. “Identification of Trees and Shrubs in Winter Using Buds and Twigs” by Bernd Schulz, 2018, 71–72

Cray, H.A. “Seaweed Chronicles” by Susan Hand Shetterly, 2018, 276

Crins, W.J. “Sedges of the Northern Forest: A Photographic Guide” by Jerry Jenkins, 2019, 172–173

## Climate Change

Brooks, R. “The Uninhabitable Earth: Life After Warming” by David Wallace-Wells, 2019, 66–68

## Entomology


Cray, H.A. “Buzz, Sting, Bite: Why We Need Insects” by Anne Sverdrup-Thygeson, 2019, 381–382


## Herpetology


## Ornithology


Curry, B. “The Handbook of Bird Families” by Jonathan Elphick, 2018, 74–75

Foster, R.F. “Ospreys: The Revival of a Global Raptor” by Alan F. Poole, 2019, 175


## Other


Cottam, B. “To Speak for the Trees: My Life’s Journey from Ancient Celtic Wisdom to a Healing Vision of the Forest” by Diana Beresford-Kroeger, 2019, 181–182

Cottam, B. “The Overstory: A Novel” by Richard Powers, 2018, 183

Cottam, B. “Mama’s Last Hug: Animal and Human Emotions” by Frans de Waal, 2019, 286–287


## Zoology


Cray, H.A. “Bats: An Illustrated Guide to All Spe-
cies” by Marianne Taylor, Photography by Merlin D. Tuttle, 2018, 177
Gibson, J.F. “A Field Guide to Marine Life of the Protected Waters of the Salish Sea” by Rick M. Harbo, 2019, 176
Lauff, R. “Mammals of Prince Edward Island and Adjacent Marine Waters” by Rosemary Curley, Donald F. McAlpine, Dan McAskill, Kim Riehl, and Pierre-Yves Daoust, 2019, 389
Way, J. “Return of the Wolf: Conflict and Coexistence” by Paula Wild, 2018, 78–79