

# Index to Volume 136

Compiled by William Halliday

- Abts, S., 30
- Abundance, 107, 162
- Accipiter gentilis*, 361
- Agelaius phoeniceus*, 1
- Agriculture, Regenerative, 217
- Alberta, 167
- Alces americanus*, 237
- Ambystoma mavortium*, 153
- Amphibian, 5, 153
- Anas platyrhynchos*, 153
- Annelid, 262
- Anomaly, Song, 1
- Area, Marine Protected, 274, 348
- Arndt, J.E., 228
- Avoidance, Habitat, 364
- Azalea, Flame, 42
- Barnas, A.F., 247
- Barren, Sand, 156
- Bates, C., 348
- Bates, C.R., 133
- Baxter-Gilbert, J., L. King, J.L. Riley. First report of Eastern Red-backed Salamander (*Plethodon cinereus*) on Newfoundland, 5–9
- Beach, Cobble, 348
- Bear,
  - Grizzly, 337
  - Polar, 247
- Behaviour, 10, 17, 45, 254, 337, 364
  - Conspecific Nest Attendance, 247
  - Incubation, 247
  - Scratching, 274
  - Wintering, 30
- Bélair, A.L., 156
- Bender, D.J., 13
- Bioacoustics, 1
- Binley, A.D., 1
- Biochemistry, Serum, 20
- Biology,
  - Invasion, 5, 122
  - Island, 5
- Bird, 1, 17, 30, 45, 153, 213, 217, 228, 247, 361, 364
  - Migratory, 228
- Blackbird, 45
  - Red-winged, 1
- Bonding, Pair, 10
- Bourchier, R.S., 262
- Brant, Atlantic, 213
- Branta bernicla hrota*, 213
- Bridge, Ice, 268
- Brigham, R.M., 13
- British Columbia, 201, 237, 348
  - Northeast Pacific, 274
  - Southern, 1, 122, 337
  - Vancouver Island, 133
- Brodo, I., 94
- Brodo, I.M., E. Haber. A tribute to George William Argus, 1929–2022, 284–292
- Brumation, 309
- Brunton, D.F., 107
- Burns, M., 145
- Calving, 316
- Camera, Trail, 45
- Campomizzi, A.J., Z.M. Lebrun-Southcott. Impact of grazing and conservation opportunities for nesting grassland birds in a community pasture, 217–227
- Canis*, 139
  - latrans*, 139
  - lupus*, 10, 139, 237, 254
  - lupus arctos*, 333
- Caribou, 316
- Carstairs, S.J., 309
- Catling, P.M., 42
- Catling, P.M., S. McKay-Kuja, E. Haber, J.L. Riley, K.M. Lindsay, R. Thorpe. A tribute to James Edwin Cruise, Ph.D., L.L.D., 1925–2021, 49–57
- Caudata, 5
- Causeway, 268
- Cermak, B., 86
- Change, Climate, 374
- Chaetura pelagica*, 364
- Chelydra serpentina*, 145, 309
- Chemistry, Serum, 20
- Chiroptera, 13
- Christiansen, J.J.A., D.M. Green, D.J. Bender, D.L. Gummer, M.C. Kalcounis-Ruepell, R.M. Brigham. A male Little Brown Myotis (*Myotis lucifugus*) recaptured after 28 years at the same site in southwest Saskatchewan, Canada, 13–16
- Chrysemys*
  - picta*, 145
  - picta bellii*, 122
  - picta marginata*, 309
- Clark, L., 274
- Clarkin, O., 86, 156
- Clear-cuts, 316
- Climate, Northern, 122
- Colony, Captive, 139
- Conservation, 364
  - Corvus corax*, 17
- Corylus americana*, 156
- Coyote, Eastern, 139
- Cycle, Freeze-thaw, 309
- Cyr, M.A., 228
- D'Elia, V., 374
- Darvill, R., 228
- Data, Historical, 348
- Deaf, 1
- Deer, Mule, 237
- Dekelaita, D.J., P.R. Krausman, S.P. Mahoney. Estimated effects of clear-cuts and burns associated with habitat use

- by female Newfoundland Caribou (*Rangifer tarandus*), 316–332
- Development,  
Arrested, 374  
Song, 1
- DeWitt, P.D., 254
- Diet, 17, 153, 237, 337
- Disorder, Metabolic, 20
- Dispersal,  
Plant, 156  
Seed, 262
- Displays, Distraction, 247
- Distribution, 107, 156, 167
- Disturbance, 316  
Anthropogenic, 309, 364
- Diversity, 201
- Doucelette, L.I., 268
- Draft Minutes of the 143rd Annual Business Meeting (ABM) of the Ottawa Field-Naturalists' Club, 11 January 2022, 83–85
- Drones, 247, 274
- Du Preez, C., H.N. Gartner, Hawilh-Wayanis, L. Clark, S. Du Preez, T. Norgard. Salmon Shark (*Lamna ditropis*) scratching behaviour using floating anthropogenic debris, 274–280
- Du Preez, S., 274
- Dupuis-Desormeaux, M., S. Gillingwater, S.J. Carstairs. Cases of freeze-dried freshwater turtles at the northern limit of their ranges in southern Ontario, 309–315
- Dupuis-Desormeaux, M., G. Van Alstyne, M. Mueller, R. Takayesu, V. D'Elia, S.E. MacDonald. Red-eared Slider (*Trachemys scripta elegans*) nests in the Greater Toronto Area, 374–380
- Earley, N.G., I.R. Walker, J.G. Woods. Mallard (*Anas platyrhynchos*) drake observed consuming an adult Western Tiger Salamander (*Ambystoma mavortium*), 153–155
- Earthworm, 262
- Editors' Report for Volume 135 (2021), 197–199
- Edwards, B.P.M., A.D. Binley, W.B. English, E.J. Hudgins, S.S. Snow. A highly anomalous Red-winged Blackbird (*Agelaius phoeniceus*) song, 1–4
- Eelgrass, Common, 213
- Eider, Common, 247
- Embryo, Turtle, 374
- Emydoidea blandingii*, 145
- English, W.B., 1
- Estimate, Population, 162
- Equus ferus caballus*, 237
- Erratum, 281
- Euura lipovskyi*, 42
- Expansion, Range, 5, 42, 101, 268
- Experiment, Controlled Breeding, 139
- Extension, Range, 5, 42, 101, 268
- Extirpation, 268
- Farnworth, T., 86
- Fern, 201
- Fidelity, Site, 13
- Fire, 316
- Firmoth, Shining, 101
- Fish, 133, 274, 337
- Fisher, 268
- Flood, N., 337
- Forbes, G.J., 268
- Forestry, 316
- Forests, 262, 316
- Formation, Range, 206
- Fossil, 201
- Garroway, C.J., 20
- Gartner, H.N., 274
- Gavia immer*, 30
- Geldart, E.A., 247
- Gerstle, C., 348
- Gilchrist, H.G., 247
- Gillingwater, S., 309
- Glyptemys insculpta*, 162, 206
- Goshawk, Northern, 361
- Goulet, H., P.M. Catling, B. Kostiuk. First record of Azalea Sawfly (*Euura lipovskyi*, Hymenoptera: Tenthredinidae) in Canada, 42–44
- Grackle, Common, 45
- Granivory, 262
- Graptemys geographica*, 309
- Graves, B.M., S.M. Petschke. American Marten (*Martes americana*) and Northern Goshawk (*Accipiter gentilis*) simultaneously attack Gray Squirrel (*Sciurus carolinensis*), 361–363
- Green, D.M., 13
- Greenland, 333
- Greenwood, D.R. A fossil beech fern (cf. *Phegopteris* (C. Presl) Fée) from Driftwood Canyon Provincial Park, British Columbia, 201–205
- Gummer, D.L., 13
- Haber, E., 49, 284
- Habitat, 107, 316, 364  
Anthropogenic, 228  
Natural, 228  
Nesting, 228
- Hanrahan, C., 94
- Hanson, A., 213
- Hatching, Success, 122
- Hawilh-Wayanis, 274
- Hazelnut, American, 156
- Hemiparasite, Invasive, 167
- Herbarium, 107
- Herpetofauna, 5, 122, 145, 153, 162, 206
- Hill, M.G. A late Pleistocene Wood Turtle (*Glyptemys insculpta*) from Iowa, USA: response of the taxon to glaciation and formation of the current range, 206–212
- Hillman, B., M.T. Jones. A resurvey of a Wood Turtle (*Glyptemys insculpta*) population in northern New Hampshire, USA, after 13 years, 162–166
- History, Natural, 45
- Hoedeman, A., 86
- Horse, Free-ranging, 237
- Hudgins, E.J., 1
- Humphries, M.M., 213
- Hunt, 237
- Huperzia lucidula*, 101

- Hybrid, Wolf–Coyote, 139  
 Hymenoptera, 42  
 Icteridae, 45  
 Identification, 167  
 Index, Vickery, 217  
 Insect, 42  
 Interaction,  
   Aboveground–belowground, 262  
   Predator–prey, 153  
 Intertidal, 133  
 Invasive, 42  
 Iowa, 206  
 Island, Ellesmere, 333  
 Isoetaceae, 107  
 Jones, M.T., 162  
 Jung, T.S. Raven (*Corvus corax*) as a novel food item for Lynx (*Lynx canadensis*), 17–19  
 Kalcounis-Rueppell, M.C., 13  
 Kilburn, V.L., 122  
 King, L., 5  
 Kinnunen, R.P., 20  
 Knowledge, Traditional Ecological, 274  
 Kostiuk, B., 42  
 Krausman, P.R., 316  
 Kreuzberg, 156  
*Lamna ditropis*, 274  
 LaRocque, A., 213  
 Leblanc, M.-L., A. Hanson, A. LaRocque, B. Leblon, M.M.  
   Humphries. Tabusintac Bay (New Brunswick, Canada): an important spring migratory stopover for Atlantic Brant (*Branta bernicla hrota*), 213–216  
 Leblon, B., 213  
 Lebrun-Southcott, Z.M., 217  
 Lee, R.E., 86  
 Leptizki, D.A.W., A.E. Martin. Editors' Report for Volume 135 (2021), 197–199  
 Levings, C.D., C.R. Bates. The intertidal fish collections of Ed Ricketts at Tofino, British Columbia, Canada, 1945 and 1946, 133–138  
 Lindsay, K.L., 49  
 Logging, 316  
 Longevity, 13  
 Loon, Common, 30  
 Love, O.P., 247  
*Lumbricus terrestris*, 262  
 Lycophytes, 101, 107  
 Lycopodiaceae, 101, 107  
 Lynx, 17  
*Lynx canadensis*, 17  
 MacDonald, I.D., S. Visser. Notes on the nomenclature, characteristics, status, and biology of Field Thesium, Thésium des Champs (*Thesium ramosum* Hayne; Thesiaceae/Santalaceae), a potentially serious invasive plant in Alberta, 167–177  
 MacDonald, S.E., 374  
 MacTavish, D., 122  
 Mager, J.N., III, B. Wade, S. Abts, J.D. Paruk. Foraging patterns vary with the degree of sociality among Common Loon (*Gavia immer*) overwintering on a freshwater lake, 30–41  
 Mahoney, S.P., 316  
 Mallard, 153  
 Malocclusion, 333  
 Mammal, 10, 17, 139, 237, 247, 254, 268, 316, 333, 337, 361  
   Small, 13, 20, 361  
 Management, Range, 217  
 Manitoba, 101, 107, 364  
   Southern, 20  
 Mapping, Spot, 217  
 Marquard-Petersen, U. Malocclusion in an Arctic Wolf (*Canis lupus arctos*) from northeast Greenland, 333–336  
 Marten, American, 268, 361  
*Martes americana*, 268, 361  
 Martin, A.E., 197  
 McCrory, W.P., 237  
 McIntyre, R., 10  
 McKay-Kuja, S., 49  
 McLachlan Hamilton, K., 94  
 McTavish, M.J., A. Rossi, R.S. Bourchier, S.M. Smith. Quantifying seeds egested by field-collected earthworms: a dynamic and overlooked pool in forest soil seed banks, 262–267  
 Mech, L.D., R. McIntyre. Key observations of flexed-leg urination in the free-ranging Gray Wolf (*Canis lupus*), 10–12  
 Method, Novel, 262  
 Michigan, 361  
 Migration, Spring, 213  
 Milton, G.R., L.I. Doucette, G.H. Williams, G.J. Forbes. Range expansion of Fisher (*Pekania pennanti*) in Nova Scotia, 268–273  
 Mitchell, A.M., V.L. Kilburn, R. Seifert, D. MacTavish. Evidence of successful hatching by introduced Red-eared Slider (*Trachemys scripta elegans*) in British Columbia, Canada, 122–132  
 Mitigation, 145  
 Model, Loglinear, 162  
 Monitoring,  
   Biodiversity, 348  
   Nest, 217  
 Moose, 237  
 Mueller, J., 86  
 Mueller, J. Draft Minutes of the 143rd Annual Business Meeting (ABM) of the Ottawa Field-Naturalists' Club, 11 January 2022, 83–85  
 Mueller, J.D., O.J. Clarkin, A.L. Bélair. A disjunct population of American Hazelnut (*Corylus americana*): a new plant species for the Ottawa district, 156–161  
 Mueller, M., 374  
 Myotis, Little Brown, 13  
*Myotis lucifugus*, 13  
 National Park, Yellowstone, 10  
 Nesting, 217, 364  
 New Brunswick, 213  
 New Hampshire, 162  
 Newfoundland, 5, 316  
 Non-native, 5, 42  
 Norgard, T., 274

- Nova Scotia, 268  
 Nunavut, 247, 333  
 Nutrition, 20  
 Ocean, Changing, 274  
*Odocoileus hemionus*, 237  
*Oncorhynchus nerka*, 337  
 Ontario,  
     Ottawa, 42, 156  
     Southern, 45, 217, 309, 374  
 Ovenden, L., 94  
 Paleozoology, 206  
 Parasites, 274  
 Parr, S., W.P. McCrory. Gray Wolves (*Canis lupus*) consume free-ranging horses (*Equus ferus caballus*) on the Chilcotin plateau, British Columbia, 237–246  
 Paruk, J.D., 30  
 Patterson, B., 139  
*Pekania pennanti*, 268  
 Pelletier, N., J.E. Arndt, R. Darvill, M.-A. Cyr. Natural and human-made nesting habitat use by Bank Swallow (*Riparia riparia*) in Canada, 228–236  
 Pest, 42  
 Petschke, S.M., 361  
*Phagopteris*, 201  
 Physiology, Song, 1  
 Plant, 42, 101, 107, 156, 167, 201  
 Plasticity, Diet, 337  
*Plethodon cinereus*, 5  
 Plethodontidae, 5  
 Pollution, Marine, 274  
 Poole, T.F., B.E. Stewart, R.E.A. Stewart. Impact of anthropogenic disturbance on nesting Chimney Swift (*Chaeatura pelagica*) including best practices for conservation, 364–373  
 Predation, 17, 153, 237, 337, 361  
 Prey, 237  
 Proestrus, 254  
 Protected Area, White Lake Grassland, 153  
 Protection, Turtle Nest, 374  
 Provincial Park,  
     Fish Creek, 167  
     Porteau Cove, 348  
*Quiscalus quiscula*, 45  
*Rangifer tarandus*, 316  
 Rate, Stocking, 217  
 Raven, 17  
 Raymond, S., J. Strauss, N. Flood. Observations of Grizzly Bear (*Ursus arctos*) associated with abundance of spawning Kokanee (*Oncorhynchus nerka*) at an inland river, British Columbia, Canada, 337–347  
 Recapture, 13  
 Recolonization, 254  
 Record,  
     First, 42  
     New Distribution, 5, 101  
 Region, UN Biosphere, 348  
 Reproduction, 122, 254  
 Reptile, 122, 145, 162, 206, 309, 374  
*Rhododendron calendulaceum*, 42  
 Ricketts, E., 133  
 Riley, J.L., 5, 49  
*Riparia riparia*, 228  
 Riprap, 348  
 Roadkill, 145  
 Robertson, G., 86  
 Rossi, A., 262  
 Running, Wing-assisted Incline, 45  
 Saarela, J.M., 86  
 Sakich, N.B. Apparent wing-assisted incline running in a Common Grackle (*Quiscalus quiscula*), 45–48  
 Salamander,  
     Eastern Red-backed, 5  
     Western Tiger, 153  
 Salmon, Kokanee, 337  
 Santalaceae, 167  
 Saskatchewan, Southwest, 13  
 Savannah, 156  
 Sawfly, Azalea, 42  
 Scat, 237  
 Scavenging, 17, 237  
 Scent-marking, 10, 254  
 Schmidt, C., J.R. Treberg, R.P. Kinnunen, C.J. Garroway. Serum biochemistry suggests a physiological response to environmental stress in a native urban Eastern Gray Squirrel (*Sciurus carolinensis*) population, 20–29  
 Science, Community, 337  
*Sciurus carolinensis*, 20, 361  
 Seburn, D.C., M. Burns, E. Kreuzberg, L. Viau. Do turtle roadkill hotspots shift from year to year?, 145–152  
 Seifert, R., 122  
 Selaginellaceae, 107  
 Selection, Resource, 316  
 Semeniuk, C.A.D., 247  
 Shark, Salmon, 274  
 Shifts, Spatial, 316  
 Simone, C.A.B., E.A. Geldart, C.A.D. Semeniuk, O.P. Love, H.G. Gilchrist, A.F. Barnas. Conspecific nest attendance behaviour of Common Eider (*Somateria mollissima*) in response to Polar Bear (*Ursus maritimus*) foraging activity: error or intent?, 247–253  
 Site, Nest, 364  
 Slider, Red-eared, 122, 374  
 Smith, S.M., 262  
 Snow, S.S., 1  
 Sociality, 30  
*Somateria mollissima*, 247  
 Song, 1  
 Species,  
     Introduced, 5, 122, 167, 348, 374  
     Invasive, 5, 122, 167, 348, 374  
 Species-at-risk, 153, 228  
 Squirrel,  
     Eastern Gray, 20, 361  
 Staniforth, R.J. Confirmation of Shining Firmoss (*Huperzia lucidula*; *Lycopodiaceae*) in Manitoba, 101–106  
 Staniforth, R.J., D.F. Brunton. A synopsis of lycophytes in Manitoba, Canada: their status, distribution, abundance, and habitats, 107–121  
 Status, Population, 107, 122

- Steger, H., 86  
 Stewart, B.E., 364  
 Stewart, R.E.A., 364  
 Strauss, J., 337  
 Stress, Environmental, 20  
 Success, Breeding, 364  
 Survey,  
     Biodiversity, 348  
     Distance Sampling, 217  
     Mark-recapture, 162  
     Nest, 374  
     Radio-collar, 316  
     Road, 145  
     Snow Tracking, 268  
     Telemetry, 316  
     Trail Camera, 268  
 Survival, 162  
 Swallow, Bank, 228  
 Swift, Chimney, 364  
 Takayesu, R., 374  
 Tenthredinidae, 42  
 Territoriality, 10, 254  
 Theberge, J.B. A tribute to George W. Scotter, 1933–2021, 58–69  
 Theory, Optimal Foraging, 337  
 Thesiaceae, 167  
*Thesium*  
     *arvense*, 167  
     *ramosum*, 167  
 Thiel, R.P., P.D. DeWitt. Territorial scent-marking and proestrus in a recolonizing wild Gray Wolf (*Canis lupus*) population in central Wisconsin, 254–261  
 Thorpe, R., 49  
*Trachemys scripta elegans*, 122, 374  
 Treberg, J.R., 20  
 Tribute, 49, 58, 284  
 Turtle, 122, 145  
     Blanding's, 145  
     Midland Painted, 309  
     Northern Map, 309  
     Painted, 145  
     Red-eared Slider, 122, 374  
     Snapping, 145, 309  
     Western Painted, 122  
 Wood, 162, 206  
 Urban, 20, 45  
 Urbanization, 20  
 Urination,  
     Flexed-leg, 10  
     Raised-leg, 254  
*Ursus*  
     *arctos*, 337  
     *maritimus*, 247  
 Van Alstyne, G., 374  
 Viau, L., 145  
 Visser, S., 167  
 Wade, B., 30  
 Walker, I.R., 153  
 Wetlands, 309, 374  
 Wheeldon, T., B. Patterson. Dispelling myths about the origins of wolf-coyote hybrids and related *Canis* species in Ontario, 139–144  
 Wildlife, Urban, 45  
 Williams, G.H., 268  
 Winter, 309  
 Wisconsin, 254  
 Wolf,  
     Algonquin, 139  
     Arctic, 333  
     Eastern, 139  
     Gray, 10, 237, 254  
 Wonham, M., C. Gerstle, C. Bates. Combining current and historical biodiversity surveys reveals order of magnitude greater richness in a British Columbia marine protected area, 348–360  
 Woods, J.G., 153  
 Young, K., 86  
 Yukon, Southern, 17  
*Zostera marina*, 213  
 Zurbrigg, E., I. Brodo, C. Hanrahan, K. McLachlan Hamilton, L. Ovenden. The Ottawa Field-Naturalists' Club Awards for 2021, presented February 2022, 94–98  
 Zurbrigg, E., B. Cermak, O. Clarkin, G. Robertson, J. Mueller, K. Young, T. Farnworth, R.E. Lee, H. Steger, J.M. Saarela, A. Hoedeman. Annual Reports of OFNC Committees for October 2020–September 2021, 86–93

## Index to Book Reviews

### Biology

Gaston, T. "Sentient: How Animals Illuminate the Wonder of our Human Senses" by Jackie Higgins, 2021, 178–179

### Botany

Claytor, R. "Swamplands: Tundra Beavers, Quaking Bogs, and the Improbable World of Peat" by Edward Struzik, 2021, 382–383

Cray, H. "Field Study: Meditations on a Year at the Herbarium" by Helen Humphreys, 2021, 293

Sokoloff, P.C. "Flora of North America: Volume 10, Magnoliophyta: Proteaceae to Elaeagnaceae" by Flora of North America Editorial Committee, 2021, 381–382

### Conservation and Climate Change

Collins, R. "A Trillion Trees: Restoring Our Forests by Trusting in Nature" by Fred Pearce, 2022, 70–73

Collins, R. "Effective Conservation: Parks, Rewilding, and Local Development" by Ignacio Jiménez, 2022, 294–295

Halliday, W.D. "The Greatest Polar Expedition of All Time: the Arctic Mission to the Epicenter of Climate Change" by Markus Rex, translated by Sarah Pybus, 2022, 296

### Entomology

Cottam, B. "Ants: the Ultimate Social Insects. British Wildlife Collection (Book 11)" by Richard Jones, 2022, 297–298

Cray, H. "Empire of Ants: the Hidden Worlds and Extraordinary Lives of Earth's Tiny Conquerors" by Susanne Foitzik and Olaf Fritzsche, translated by Ayça Türkoğlu, 2021, 384

Gibson, J.F. "Tiger Beetles of Manitoba: Life History, Ecology and Microsculpture" by Robert E. Wrigley, Larry de March, and Erwin Huebner, 2022, 180–181

Smith, C.M. "The Silken Thread: Five Insects and their Impacts on Human History" by Robert N. Wiedenmann and J. Ray Fisher, 2021, 179–180

### Herpetology

Forbes, G. "Biology and Conservation of the Wood Turtle" edited by Michael T. Jones and Lisabeth L. Willey, 2021, 181–182

### Ornithology

Smith, C.M. "Woman, Watching: Louise de Kiriline Lawrence and the Songbirds of Pimisi Bay" by Merilyn Simonds, 2022, 298–299

### Other

Brunton, D.F. "The Object's the Thing: the Writings of Yorke Edwards, a Pioneer of Heritage Interpretation in Canada" by Richard Kool and Robert A. Cannings, 2021, 184–185

Clark, H.O., Jr. "The Hidden Kingdom of Fungi: Exploring the Microscopic World in our Forests, Homes, and Bodies" by Keith Seifert, 2022, 182–184

Sims, J., New Titles, 74–78, 186–189, 302–305, 391–396

Tegler, B. "Applied Panarchy: Applications and Diffusion across Disciplines" edited by Lance H. Gunderson, Craig R. Allen, and Ahjond Garmestani, 2022, 301

### Zoology

Cray, H. "Why Sharks Matter: a Deep Dive with the World's Most Misunderstood Predator" by David Shiffman, 2022, 390

Curley, R. "Beavers: Ecology, Behaviour, Conservation, and Management" by Frank Rosell and Róisín Campbell-Palmer, 2022, 387–388

Halliday, W.D. "Field Guide to Whales, Dolphins and Porpoises" by Mark Carwardine, illustrations by Martin Camm, 2022, 388–389

Lauff, R. "Bats of British Columbia. Second Edition" by Cori L. Lausen, David W. Nagorsen, R. Mark Brigham, and Jared Hobbs, 2022, 300

Way, J. "The Alpha Female Wolf: the Fierce Legacy of Yellowstone's 06" by Rick McIntyre, 2022, 377–378