

# Autonomous Recording Unit (ARU) Pilot Project Summary

June 2022

## General Project Details

**WHO:** The Eeyou Marine Region Wildlife Board, Cree Trappers Association (EMR), and Canadian Wildlife Service.

**WHAT:** Deployed 10 Autonomous Recording Units (ARU's) which are used to record bird song.

**WHEN:** Summer 2021.

**WHERE:** Along the Wemindji coastline.

**WHY:** To survey bird species, identify areas of important bird habitat, and locate species at risk. This information will contribute to understanding change along the coast and provide information for designating protected areas and guiding future projects.

**HOW:** By skidoo and boat with local technicians Henry Stewart and Ernie Hughboy.



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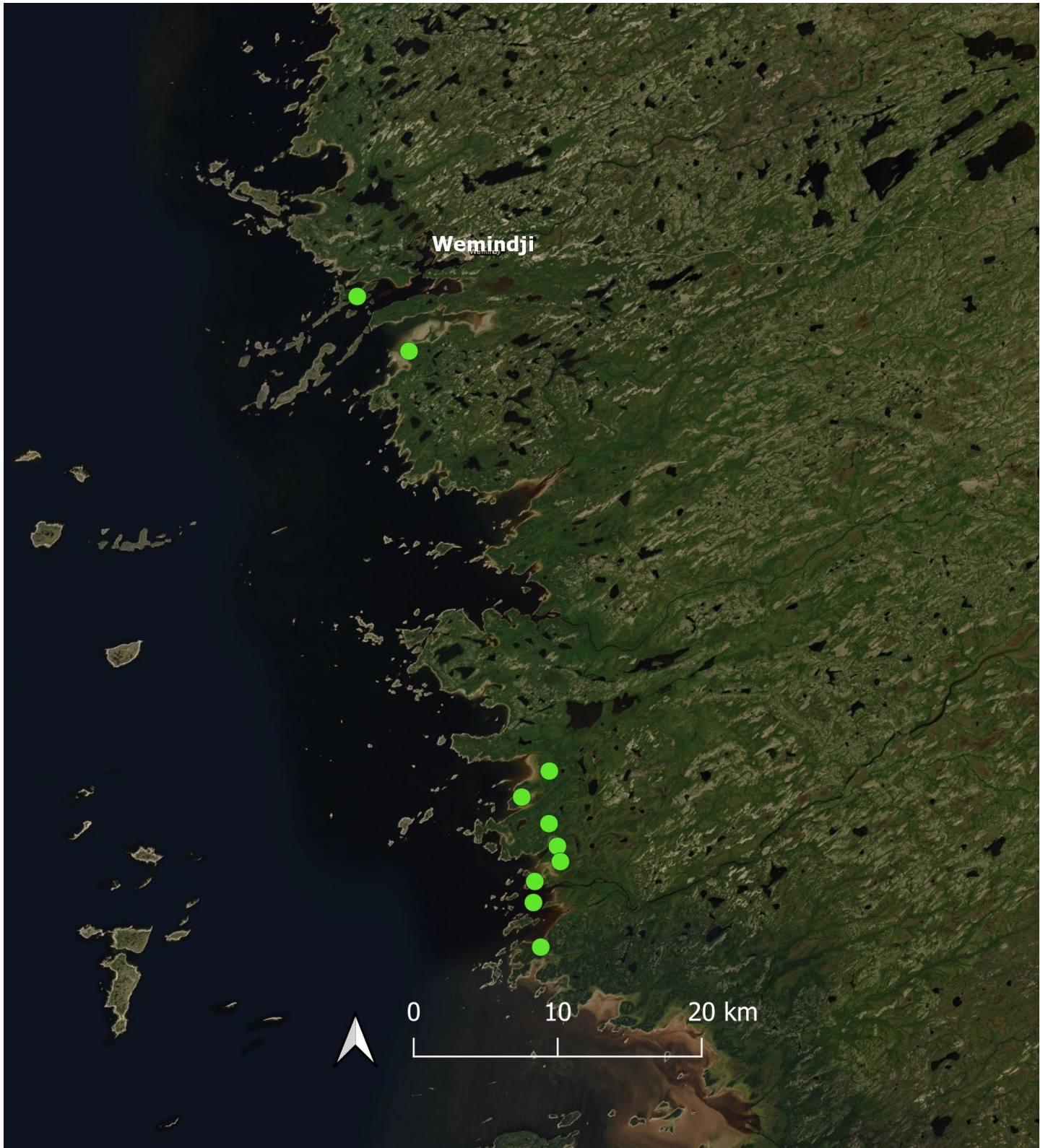
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# 2021 ARU Locations



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# Preliminary Results

## Summary

- 10 ARU's were deployed from May-September 2021.
- The units were programmed to record at sunrise and sunset during different intervals.
- Overall, 153 recordings were randomly selected for analysis by CWS-Quebec birders.
- A total of 83 different bird species were recorded.

\*\*\*Click on the species name to hear what it sounds like\*\*\*

## Most Common Birds



Keenan Yakola  
White-throated Sparrow



Bryan Calk  
Wilson's Snipe



Ryan Schain  
Swamp Sparrow



Micah  
Canada Goose



Terence Zahner  
Swainson's Thrush



Bryan Calk  
Savannah Sparrow



Alex Eberts  
American Robin



Paul Jacyk  
Ruby-crowned Kinglet



Ezra Staengl  
Yellow-rumped Warbler

# Preliminary Results

## Species at Risk



Yellow Rail



Jane Mann

Common Nighthawk



John Sutton

Rusty Blackbird



Luke Seitz

Olive-sided Flycatcher



Caleb Putnam

Lesser Yellowlegs

## Non-resident Birds



Christoph Manning

Barnacle Goose



Bryce Robinson

Rough-legged Hawk



Ian Davies

Tundra Swan

- Non-resident species include species in migration, unpaired species that nest further south, or individuals nesting on islands off the coast.

# Preliminary Results

## Full list of species:

### Listed from most common to least common.

1. White-throated Sparrow
2. Wilson's Snipe
3. Swamp Sparrow
4. Canada Goose
5. Swainson's Thrush
6. Savannah Sparrow
7. American Robin
8. Ruby-crowned Kinglet
9. Yellow-rumped Warbler
10. Alder Flycatcher
11. Lincoln's Sparrow
12. American Bittern
13. Yellow Warbler
14. Dark-eyed Junco
15. Nelson's Sparrow
16. Herring Gull
17. American Crow
18. Sora
19. Red-winged Blackbird
20. Sandhill Crane
21. Winter Wren
22. Fox Sparrow
23. Greater Yellowlegs
24. Common Loon
25. Ring-billed Gull
26. Yellow Rail
27. Boreal Owl
28. Canada Jay
29. Golden-crowned Kinglet
30. Green-winged Teal
31. American Black Duck
32. Black Scoter
33. White-winged Crossbill
34. Hermit Thrush
34. Mallard
35. Common Raven
36. Tennessee Warbler
37. Spotted Sandpiper
38. Great Horned Owl
39. Boreal Chickadee
40. Great Black-backed Gull
41. Common Nighthawk
42. Rusty Blackbird
43. American Wigeon
44. Clay-colored Sparrow
45. Le Conte's Sparrow
46. Common Yellowthroat
47. Nashville Warbler
48. Northern Pintail
49. Gadwall
50. Olive-sided Flycatcher
51. Barnacle Goose
52. Black-and-white Warbler
53. Common Redpoll
54. Great Blue Heron
55. Killdeer
56. Tundra Swan
57. Snow Goose
58. Wilson's Warbler
59. Cedar Waxwing
60. Solitary Sandpiper
61. Virginia Rail
62. Chipping Sparrow
63. Palm Warbler
64. American Redstart
65. American Tree Sparrow
67. Belted Kingfisher
68. Black-backed Woodpecker
69. Black-bellied Plover
70. Black-capped Chickadee
71. Yellow-bellied Flycatcher
72. Blue-headed Vireo
73. Common Eider
74. Common Tern
75. Gray Catbird
76. Great Gray Owl
77. Long-eared Owl
78. Magnolia Warbler
79. Northern Waterthrush
80. Red-throated Loon
81. Rough-legged Hawk
82. Northern Saw-Whet-Owl
83. Lesser Yellowlegs



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