HE NORTHERN HAWK-OWL NESTING T CHURCHILL, MANITOBA

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e 1. A spruce stump on top of which a Northern Hawk-Owl nest was located; rchill, Manitoba, July 1989. Gilles Seutin

archill, Manitoba is ornithologically est known subarctic location in da. In 1934 Taverner and Sutton hed the first detailed study of the of Churchill, which was the result of o summers they spent there, obg and collecting several species were poorly known to the orogical community at that time.⁷ hen, the region has been visited by nds of birdwatchers and profesornithologists and the local na has been well described by Jehl nith, and more recently by Char-These two books, and that of n, can be consulted for a descrip-

tion of the diversity of habitat encountered at this tree-line location. 6 Because of the intense birdwatching activity in the Churchill region during the breeding season, including at distant sites such as LaPerouse Bay (45 km e of Churchill) and Cape Churchill (55 km e of Churchill) where groups from Queens' University and the U.S. Fish and Wildlife Service are studying Snow Geese and Canada Geese, it is generally believed that we have a very good knowledge of the breeding avifauna of the region. It was therefore significant to find the Northern Hawk-Owl breeding there for the first time during the summer of 1989.

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Two active nests of the Northern Hawk-Owl were found in 1989. The first nest was discovered in late June and contained an unknown number of nestlings. As it is typical for the species,⁴ it was located in the hollow at the top end of a broken tree trunk, a spruce, about 2 m above ground. The habitat surrounding the nest was typical wet taiga (open spruce forest). On 30 June, in the trees close to the nest, two fledglings were aggressively guarded by the parents.

I found the second nest on 3 July in a similar, but drier, habitat. It was located in the hollow top of an old spruce stump, about 7 m from ground (Fig. 1). This stump was at the edge of an open, disturbed gravel area (30 x 200 m) with extensive poplar and willow regrowth at places, especially on the edges. Surrounding this area, the habitat was an open taiga with clumps of small spruce and tamarack (less than 2 m high on average) and several dispersed tall spruce (less than 10 m high) on top of which the adult Hawk-Owls were perching. When the nest was found, it contained at least three large nestlings. The fate of this nest is not known since I left Churchill 3 days later.

Godfrey included Churchill in his map of the breeding range of the Northern Hawk-Owl, probably based on the assumption that the species nests all across North America in mixed and boreal forests up to the tree line.³ However, before 1989, the species has never been reported to breed in the Churchill region. Jehl and Smith state that "there is as yet no evidence that Northern Hawk-Owl have nested in the Churchill region." More recently, Chartier reported the species as "extremely rare" and does not include it in the list of species that have been reported to breed in the region.

It is significant that these nests were found in a year when the lemming population was very high (A.M.

Tuchscherer, pers. comm.). In 1989, ming abundance was also correlated the breeding of a higher than avenumber of Rough-legged Hawks (sonal observation).

Further, these nesting attempts ca be attributed to the displacement of ac by forest fires since the major fires burned across northern Manitoba in 1 only started in July, several weeks afte start of either nest.

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