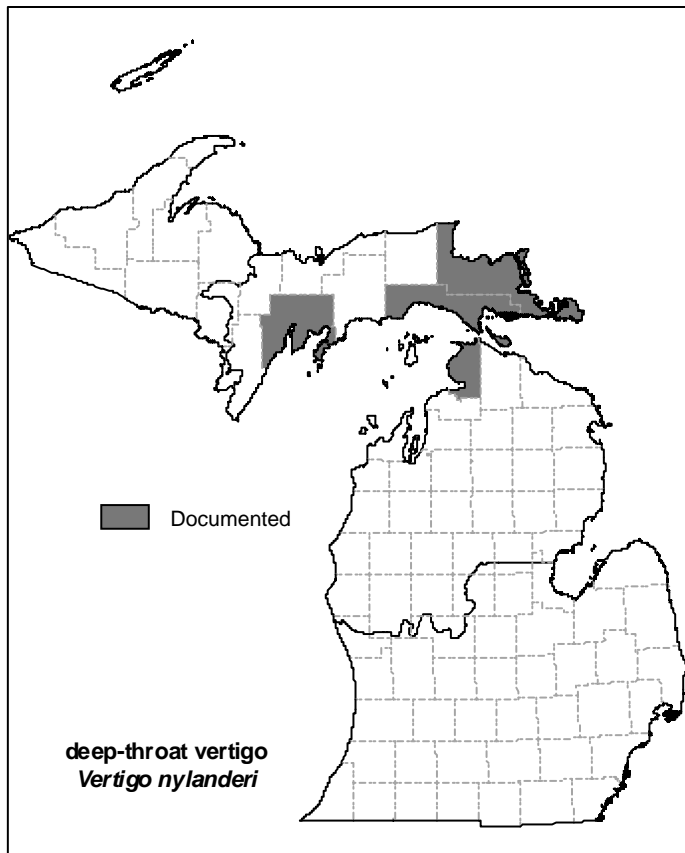


SNAILS



deep-throat vertigo (*Vertigo nylanderi*)

DISTRIBUTION & ABUNDANCE: State listed as special concern. There are four populations in the Upper Peninsula and each population is extremely small and restricted. This species is considered critically imperiled in Michigan and across its range.

ASSOCIATED LANDSCAPE FEATURES: lowland conifer; bog; swamp; alvar/rock; coastal dune/beach

ASSOCIATED THREATS: altered fire regime; lack of scientific knowledge; unknown

COMMENTS: Need additional surveys to assess abundance and distribution; need basic life history information; need to identify threats. This is the rarest *Vertigo* species in North America. The extremely small population sizes at each site makes occurrences of this species extremely susceptible to catastrophic disturbance, like fire. Nekola (1998) noted that this species (tamarack wetlands) is limited to the same habitat that mammoth populations were limited to at the end of the last ice age.