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**Barrow's Goldeneye in Iceland: responses to spatial and temporal variation in food resources.**

A small population of Barrow's Goldeneyes (*Bucephala islandica*) lives in spring-fed freshwater habitats in Iceland. Food resources in this habitat vary greatly in time and space and have been monitored for three decades. The local vertebrate populations, including the Barrow's Goldeneye and several other duck species, respond strongly to this variation through behaviour and demography. The data highlights questions about ecosystem stability and population regulation of ducks.