

Wild boars and wart hogs may have an internal compass

June 22 2016



Wild boars and wart hogs may have an internal compass. *Mammal Review*.
Credit: (c)Jaroslav Cerveny.

New research suggests for the first time that wild boars and wart hogs have an internal magnetic compass that helps them orient themselves as

they forage for food and inhabit new areas.

For the study, investigators observed 1614 [wild boars](#) at 31 different localities in the Czech Republic and 1347 warthogs at 33 different localities in six African countries. The animals had a highly significant axial preference to align themselves approximately along the magnetic north-south axis, with a slight shift towards east. The time of the day, season, and weather conditions had no significant influence on the average directional preferences of wild boars or warthogs.

"The fascinating findings add on to a well growing body of evidence for a magnetic sense in mammals. The interesting questions that arise now are how they are able to sense the magnetic field and whether they really use it for navigation" said Dr. Pascal Malkemper, senior author of the *Mammal Review* study.

More information: Jaroslav Červený et al, Magnetic alignment in warthogs and wild boars, *Mammal Review* (2016). [DOI: 10.1111/mam.12077](#)

Provided by Wiley

Citation: Wild boars and warthogs may have an internal compass (2016, June 22) retrieved 26 January 2023 from <https://phys.org/news/2016-06-wild-boars-warthogs-internal.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.