

Exame de Proficiência

2023.2

Inglês

Ciências Biológicas

Instruções

1	Confira se os dados contidos na parte inferior desta capa estão corretos e, em seguida, assine no espaço reservado para isso. Se, em qualquer outro local deste Caderno, você assinar, rubricar, escrever mensagem, etc., será excluído do Exame.
2	Este Caderno contém 5 questões discursivas referentes à Prova da Língua Estrangeira escolhida pelo candidato. Não destaque nenhuma folha.
3	As respostas às questões deverão ser redigidas em PORTUGUÊS .
4	Se o Caderno estiver incompleto ou contiver imperfeição gráfica que impeça a leitura, solicite imediatamente ao Fiscal que o substitua.
5	Será avaliado apenas o que estiver escrito no espaço reservado para cada resposta, razão por que os rascunhos não serão considerados.
6	Escreva de modo legível, pois dúvida gerada por grafia, sinal ou rasura implicará redução de pontos.
7	Só será permitido o uso de dicionário INGLÊS/INGLÊS.
8	A Comperve recomenda o uso de caneta esferográfica, confeccionada em material transparente, de tinta preta. Em nenhuma hipótese se avaliará resposta escrita com grafite.
9	Utilize para rascunhos o verso de cada página deste Caderno.
10	Você dispõe de, no máximo, três horas, para responder as 5 questões que constituem a Prova.
11	Antes de retirar-se definitivamente da sala, devolva ao Fiscal este Caderno.

Assinatura do Candidato: _____

As questões de 01 a 05, cujas respostas deverão ser redigidas EM PORTUGUÊS, referem-se ao texto abaixo.

ECOLOGICAL IMPACTS OF HUMAN-INDUCED ANIMAL BEHAVIOUR CHANGE

Margaret W. Wilson et al.

Introduction

As human activities continue to expand in magnitude, number and extent (Venter et al. 2016; Watson et al. 2016; Halpern et al. 2019), a growing body of literature has documented widespread human impacts on animal behaviour across aquatic and terrestrial ecosystems (Wong & Candolin 2015; Larson et al. 2016; Shannon et al. 2016; Gaynor et al. 2018; Tucker et al. 2018; Samia et al. 2019; Suraci et al. 2019). Animal behaviour underlies many critical ecological functions, including nutrient cycling, primary productivity, pathogen transfer, and habitat provision (Gribben et al. 2009; Barber & Dingemans 2010; Palkovacs & Dalton 2012). By affecting both interspecific and intraspecific interactions, behavioural trait variation can alter population and community dynamics (Bolnick et al. 2011) and wildlife conservation outcomes (Festa-Bianchet & Apollonio 2003; Blumstein & Fernández-Juricic 2010; Berger-tal & Saltz 2016).

While many behavioural effect studies allude to the implications of their findings for populations, communities and ecosystems, empirical and theoretical investigation is limited, which precludes us from knowing where and to what degree these impacts occur, limiting our ability to guide and prioritise management efforts. Without an enhanced understanding of the ecological consequences of human-induced behavioural effects, we risk both overlooking important drivers of ecological change that are not addressed through traditional management strategies, and misallocating management resources to mitigating behavioural impacts that ultimately have little ecological relevance. Thus, this study aims to present a novel framework outlining the ways human activities may modify ecosystems via changes in animal behaviour.

Discussion

Human activities are increasingly impacting the aquatic and terrestrial environments in which wildlife persist. In addition to our growing population and rising urban and agricultural development, technological advances enable us to access and modify previously remote environments (Ramirez-Llodra et al. 2011; Pertierra et al. 2017), and increased participation in outdoor recreation expands our anthropogenic footprint in natural areas once thought of as protected and pristine (Gonson et al. 2016; Watson et al. 2016). Even when not directly present, human disturbance permeates ecosystems through chemical and sensory pollution (Longcore & Rich 2004; Williams et al. 2015), habitat modification (Torres et al. 2016), trash deposition (Newsome & van Eeden 2017), human-facilitated invasive species (Murphy & Romanuk 2013) and anthropogenic climate change (Rosenzweig et al. 2008; Hoegh-Guldberg & Bruno 2010).

Concluding Remarks

As human and wildlife activities increasingly overlap in space and time, it is critical that we evaluate and quantify the potential for human-induced changes in animal behaviour and their impact on ecosystem structure and function. While investigation of these behavioural effects has been limited, some existing studies have demonstrated that human impacts on animal behaviour can drive or contribute to substantial ecological changes, making us concerned about our ignorance of behaviour change outcomes in other scenarios. Other studies documenting human-induced animal behaviour change allude to ecosystem implications despite contextual factors likely to dampen their ultimate ecological effects.

Our proposed framework provides a novel foundation for examining and anticipating the ecological impacts of human-induced behavioural effects and outlines priorities for future research. While it is valuable to document behavioural shifts in response to human activities, incorporating this information into ecosystem management requires an understanding of whether or not these shifts are likely to drive detrimental ecosystem change. Without untangling the ecological consequences of human-induced animal behaviour change, we risk situations in which ecologically important behaviour changes go unrecognised and traditional management efforts are ineffective in controlling ecological outcomes.

Adapted from <https://onlinelibrary-wiley.ez18.periodicos.capes.gov.br/doi/full/10.1111/gcb.14007>

Question 1

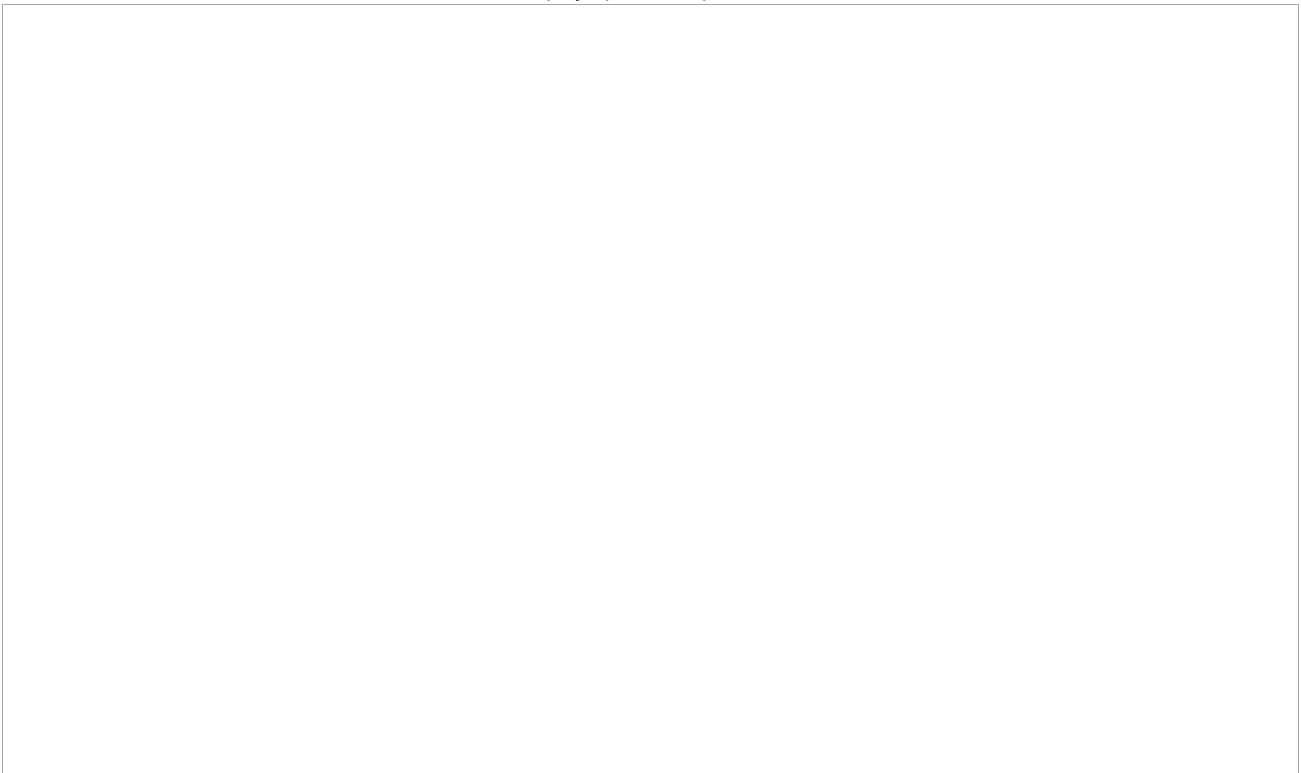
Present the research gap the authors have found despite the existence of many behavioral effect studies.

Espaço para Resposta

**Question 2**

Present the objective(s) of the present research.

Espaço para Resposta



Question 3

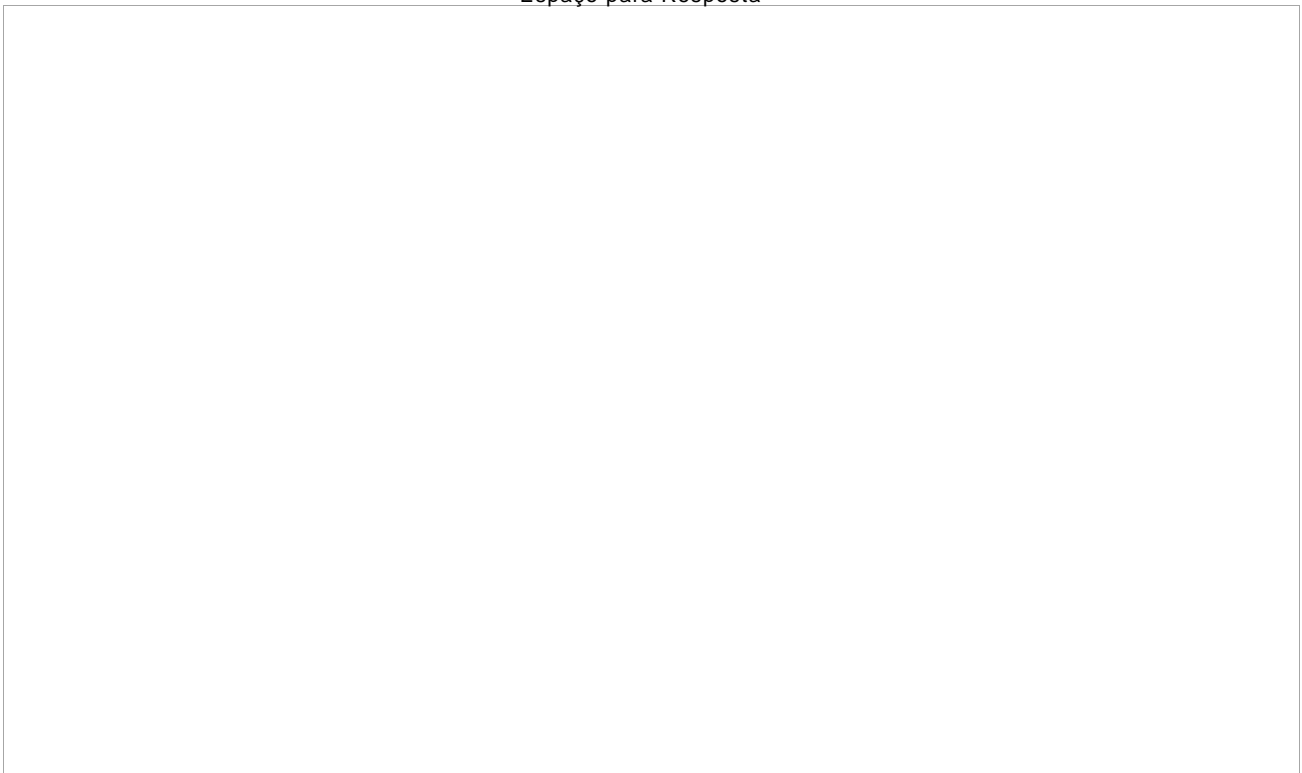
Present the examples the authors offer of critical ecological functions determined by animal behavior.

Espaço para Resposta

**Question 4**

Discuss how human disturbance permeates ecosystems according to the authors.

Espaço para Resposta



Question 5

Translate the excerpt below. The translated text should be clear and accurate in terms of structure and meaning.

As human and wildlife activities increasingly overlap in space and time, it is critical that we evaluate and quantify the potential for human-induced changes in animal behaviour and their impact on ecosystem structure and function. While investigation of these behavioural effects has been limited, some existing studies have demonstrated that human impacts on animal behaviour can drive or contribute to substantial ecological changes, making us concerned about our ignorance of behaviour change outcomes in other scenarios.

Espaço para Resposta