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Introduction
Tracing Geographies of Extinction

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According to the International Union for Conservation (IUCN), we are living through
a sixth mass extinction event in the earth’s history—a period of biological annihi-
lation. In contrast to the previous five mass extinction events recorded as notable
breaks in the fossil record, the contemporary sixth extinction is unique in that it has
been instigated by the activities of a single species: namely, humans. As several scholars
have argued in recent years, the Anthropocene—or Capitalocene—entangles dual pro-
cesses of fossilization: we have become increasingly reliant across the nineteenth- and
twentieth-centuries upon the energy supplied by burning buried hydrocarbons, at the
same time as human activities serve to relegate vast numbers of life-forms to a new
stratigraphic layer of fossils.

In the context of the contemporary attention given over to debates concerning the
Anthropocene—as bona fide geological epoch, or perhaps a boundary through which we
must pass before entering into something better (or worse)—theorizing extinction, its
processes, drivers and affects, in a manner that rejects the figure of the autonomous
species so as to better reckon with the entangled nature-cultures of the present, has be-
come a central objective of environmental scholarship across the humanities. In this
special issue, we explore the ways in which engaging with geographic scholarship en-
hances understandings of, and responses to, species extinction.

1. Ceballos, Ehrlich and Dirzo, “Biological Annihilation.”
2. See, for example, the work of geographer Katherine Yusoff and her conceptualizing of “being as geo-
Objectives of the Special Section

This special section of *Environmental Humanities* explores, defines, and elaborates on the spatial character of species extinction and its effects. The importance of extinction studies in environmental humanities is well established, and there have been significant and valuable contributions that problematize the scientific and atomized definition of the death of a species and move us toward a richer understanding of the social, cultural and affective aspects of the slow loss of whole ways of being. However, there has been relatively little debate on how these rich and specific understandings of extinctions are grounded in geographic insights into historic, social, political, ecological, and economic transformations at different scales, and how a geographic lens that foregrounds the contingencies of place (and time) might help bring these relationships into focus. The aim of this special issue, then, is to bring extinction studies into closer conversation with approaches in traditions such as human geography and political ecology to shed light on *geographies of extinction*. By this, we mean the place-specific nature of extinction, including spaces and places that are deemed to be extinct; the geographies through which extinction processes unfold; and the geographies that are left after extinction.4

Writing about animals on the edge of extinction involves making claims about what matters, where the violence occurs, and how we might respond to it. This special section advances that such claims are also inherently about, and grounded in, different kinds of places. We are particularly interested in the relationship between *where* extinctions happen, and our conceptualizing and understanding of when, how, why extinction occurs. We think this matters as much in considering processes of extinction as when we consider human-animal relations of liveliness or flourishing.5 As Donna Haraway, and more recently Audra Mitchell and Bruce Erickson, have argued,6 it matters which stories we tell, as they frame the nature of the challenges faced, and the possible routes for response. It is the contention of this special section that *where* such stories come from, and the places they concern, matters too. Crucially, a foregrounding of geographical contingency—as the collected articles demonstrate—enables us to appreciate the liveliness and politics of ecologies in their specificity. Attending to environmental loss by way of situated extinction stories offers a way into the complexity of ecological crisis on the ground.7

Extinction Studies and Geography

Over the past half-decade, the interdisciplinary field of extinction studies has flourished. Blossoming out of an initial, focused interest in the subject among a subset of

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5. For example, Steve Hinchliffe’s familiar argument for the need to attend to *where* as well as when species meet: Hinchliffe, “Where Species Meet.”


Australia-based scholars (many of whom were also instrumental in establishing this journal); a framework for addressing extinction also reflects the coalescing of extant literatures and approaches, as scholars in different fields, from history, to geography, to literature and anthropology, become more aware of a shared intellectual desire to reckon with environmental loss. The resulting cross-disciplinary approach of extinction studies therefore seeks to focus upon “understanding and responding to processes of collective death, where not just individual organisms, but entire ways and forms of life are at threat.” Extinction is figured less as a singular event, than a distributed, often slow, process of severing connections. These are the connections that bind a particular form of living—and the beings who embody it—to sites of dwelling, migration, breeding, inheritance and flourishing. Extinction in the Anthropocene cuts with a dull edge—the intergenerational knitting together of beings that comprises what a species is, as a collection of beings, behaviors, shared genetic material, places and relations with (significant) others.

Extinction involves the loss not only of a single creature but also whole ways of living, inherited pasts, and suites of possible futures. Indeed, central to the work of extinction studies has been the rejection of notions of the species as a bounded biological unit, toward a more relational ontology of multispecies ecologies, entangled in ever-unfolding life ways. Mainstream conservation narratives miss something vital in their adherence to a “species-bound perception of reality.” Extinction studies has critiqued the conventional understanding of extinction as the loss of a biologically distinct species, perniciously figured as discrete units of biological life that exist in reproductive and (or) geographical isolation. This manner of thinking evidences the legacies of nineteenth-century colonial science in contemporary biology and conservation discourse. Charles Darwin, for example, proposes extinction within his theory of natural selection as occurring when a species ceases to exist—as though such an event is singular, and involves that species’ absence alone. As Cary Wolfe suggests, however, such accounts—offered both historically, by Darwin, and contemporaneously, by institutions such as the IUCN—render extinction in terms of “brute physical presence or absence,” enacting a reduction of the animal to flesh, bone and genetic material. These accounts lose a sense of a being’s liveliness, its entanglements with others, and its modes of relating that its existence makes possible.

9. In particular, the work of Rob Nixon and his conception of “slow violence” as violence that often exceeds generations and involves subtle, yet chronic processes of disruption to the relations that make life livable, accumulating over time, has been hugely influential in recent theorizing on extinction in the Anthropocene: Nixon, Slow Violence.
10. van Dooren, Flight Ways.
12. The kind of definition offered by the likes of biologist Ernst Mayr; see Mayr, “Population, Species, and Evolution.”
Today, extinction studies, worked through a compound theoretical lens of posthumanism, relational and political ecologies, neovitalism, ecocriticism, ecofeminism, and multispecies studies, seeks to challenge the prevailing biopolitical logics of neoliberal capitalism, development and conservation to trace, in myriad forms, innumerable environmental losses. Such losses paradoxically assert the magnitude of an extensive contemporary environmental crisis that is truly global in reach; whilst also emphasizing the irreducible specificity, locality and contextual nature of how multiple, intensive events of loss unfold, are felt to matter, and are responded to. Extinction studies challenges the notion of “species” as atomized and isolated, to turn our attention toward the imbrications of human and non-human worlds. Thus, extinctions become understood as affecting “the abrupt termination of a whole way of life, a mode of being that will never again be born or hatched into the world.”

**Stories of Geography**

Central to the work of extinction studies is a valorization of the work that particular stories can do when seeking to theorize the experience of worldly loss as both profoundly localized, yet also necessarily defying containment within any single locality, embroiled as it is in wider processes of economics, governance, and violence. Good stories are generative, and they force us to bear witness. The power of such stories, as Donna Haraway, Anna Tsing and many others assert, is that they make matter the deaths of others, forcing us to become uncomfortable with, to stay with, even embrace, the trouble(s) of capitalist living. The histories and geographies of extinction are therefore also histories and geographies of capitalism.

Petr Sloterdijk wryly characterizes the history of colonialism and globalization with the slogan “I exterminate, therefore I am.” The loss of more-than-human lives on a grand scale is, argues Jason Moore, a consequence of the world history of “cheap nature.” It is clear that any understanding of extinction—either historically or presently, in the context of the Anthropocene—cannot be separated from the histories, geographies and epistemologies of imperialism and capitalist expansionism. As such, the need to reckon with the situation of extinctions, amidst the ecologically degrading activities of colonial capitalism—aptly characterized by Anna Tsing’s labeling of the Plantationocene—brings us to a consideration of extinction amid a more-than-human politics of location attentive to the plurality of beings involved in, and affected by, the destruction unfolding.

It is these explicitly geographical aspects of extinction stories that we seek to surface and expand upon in this special issue. As geographers and others have been

18. Moore, Capitalism in the Web of Life.
discussing in recent decades—the power of stories about places is their ability to navigate the tensions between the particular and the general; the apparent smallness of specific events, and their relation to, or emergence from, more extensive shifts or transformations. As van Dooren and Rose articulate, arguing the importance of well-worked stories for facilitating the complex, interwoven, and (sometimes) contradictory relations between humans and other beings and environments, “A story can allow multiple meanings to travel alongside one another” and can contribute to the unfolding of ethics and worlds.

We draw out a place-specific attention to extinction processes, how they are shaped by geographical forces and how these processes in turn shape geographies. In particular, the articles in this collection foreground the ways in which an explicitly geographical approach to extinction draws attention to the political, economic and cultural forces that structure environmental crises. In turn, we hope this sharpens our response to questions that have been raised by extinction studies: What kinds of loss; what kinds of crisis? Who is responsible? What kinds of responses are demanded? Why, and to whom, do extinction events matter? This special section focuses on geographers’ take on these questions, which we hope will add to the range of responses to unfolding extinction crises.

Geographies of Extinction

The articles collected here attempt to explore the relationship between geography and extinction—conceptually, epistemologically, empirically, affectively, and politically. This collection unites scholars exploring variously the geographies of extinction, working across disciplinary boundaries to add a new perspective to this emerging corpus of writing. The subfield of extinction studies champions interdisciplinary response in the need to tell the contingent stories of loss in order to both stay with the trouble and make thinkable the scope and consequence of human activity upon the world. The issue considers how the processes, effects and responses to extinction are fundamentally geographical—that is, contingent and place-specific. Each of the contributors, whether considering wildcats, genomes, ospreys or indigenous languages, directs the insights of geographical and wider humanities scholarship toward questions of species death and loss, bringing specific extinction stories into conversation with spatial theorizing about the long and variegated history of conservation, colonialism and extractive capitalist expansion.

In the first article, Ben Garlick and Kate Symons argue that extinctions must be placed. Through two examples—one concerning trans-frontier marine conservation in Mozambique, the other examining the local extinction and return of the osprey (Pandion

21. See in particular Lorimer, “Telling Small Stories,” and the more recent review by Cameron, “New Geographies of Story and Storytelling.”
23. Arendt, On Violence. See also Haraway, Staying with the Trouble.
haliaeetus) in Scotland—the authors articulate three registers for addressing the geographies of extinction. The first of these, extinct geographies, concerns the spatio-temporal contingency of that which is rendered extinct. The second, extinction’s geographies, traces the social, political, cultural and economic relations by which extinctions are both wrought at resisted. The final register, geographies after extinction, proposes that extinction stories consider the sites, places, and landscapes left in the wake of extinction.

Many of the articles that follow Garlick and Symons’s opening discussion do indeed explore geographies via these registers, and others. Adam Searle, in his conceptualizing of attempts to genetically sequence the bucardo (an extinct subspecies of Pyrenean ibex whose genome was preserved in the late twentieth century), and the woolly mammoth (whose genetic sequence is still being worked on), explores the liminality of categories of extinct and non-extinct to argue that the contemporary extinction crisis should be understood through a relational ontology of human/non-human, and a complexity of different states of de/extinction. This article tells us that the science fiction fantasy of restoring a species is often a simplifying distraction from the ways in which we could, now, if we chose, explore radically different ways of organizing socio-natural relations.

Subsequently, Charlotte Wrigley considers the haunted and mournful qualities of the Scottish wildcat (Felis silvestris silvestris). Arguing that conservationists are too concerned with the wildcat as an ideal or icon to the detriment of the new forms of wild (cat) life that proliferate via hybridization, she proposes that we must “let the wildcat die.” Echoing Searle’s arguments, Wrigley posits that only once the extinction of the wildcat is accepted, can we begin to explore a means of living in the ruins.

The penultimate article of the collection considers a rather unusual example—the potential presence and threatened extinction of the Loch Ness monster (“Nessie”). Yet, despite its status as a rather fantastical example, the attempts of naturalist Peter Scott to authenticate Nessie’s existence during the second half of the twentieth century reveal much. As author Zac Baynam-Herd demonstrates, Scott’s fascination for Loch Ness is illustrative of how species presence, and the threat of extinction, are discursively constructed and enacted. Extinction and endangerment do not simply occur; rather, they are presented. The geographical setting of Nessie, and the spaces across and through which a network of scientists and their ideas circulated, enable us to understand the way extinction, as an idea, has force in conservation.

In closing the special section, Owain Jones, Kate Rigby, and Linda Williams provide something of a thematic reflection on the questions that an attention to geography might raise for the study of extinction. Via their articulation of everyday ecocide, wrought through a lived process of toxic dwelling, the authors argue that a deep time perspective brings the significance of the anthropogenic extinction process into focus—emotionally, affectively, and politically—while also considering why current responses seem to be so inadequate. Even from within what they characterize as the “toxic globalized consumer capitalist culture,” the authors find local ways to resist extinctions, illustrating how to live with mourning.
**Conclusion**

In sum, the articles presented here respond to the call from Smith, van Dooren, Rose, Tsing, and many others, to understand extinction as being a spatial, ethical, and political process that does not begin or end with the death of a species. Writing in 2013, Smith characterized extinction as both a particular species of death, and “a death that concerns . . . a species of beings.”24 For extinction to occur, evidently, there must be death—the death of a species. Yet, the death of the last of a kind is marked by a profound affective jolt that echoes through the rhizomatic connections and communities within which that species was enmeshed. The articles collected here present insights into how extinctions occur in time and space, and foreground three key themes: How extinctions can provide lenses onto more productive and ethical ways of cultivating socio-natural relations in specific contexts; how extinctions are discursively and spatially enacted through distributed social relations; and, finally, how extinction stories might underscore the political nature of extinction processes in relation to wider economic and epistemic geographies and structures of violence. In this sense, they present a call to researchers, urging them to engage with past, present and future extinctions as a way of profoundly reflecting on life in place.

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BEN GARLICK, PhD, is a lecturer in geography at York St. John University. His research interests include exploring the geographies of animal cultures, extinction, and theories of landscape. He has worked on the conservation history of the osprey (Pandion haliaetus) in Scotland, UK, and is currently researching peatbogs as Anthropocene landscapes.

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