



UNIVERSITY OF LEEDS

This is a repository copy of *A review of the social impacts of neoliberal conservation: Formations, inequalities, contestations*.

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/103500/>

Version: Accepted Version

Article:

Holmes, G orcid.org/0000-0002-5393-5753 and Cavanagh, C (2016) A review of the social impacts of neoliberal conservation: Formations, inequalities, contestations. *Geoforum*, 75. pp. 199-209. ISSN 0016-7185

<https://doi.org/10.1016/j.geoforum.2016.07.014>

© 2016, Elsevier. Licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International <http://creativecommons.org/licenses/by-nc-nd/4.0/>

Reuse

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Social impacts of neoliberal conservation: formations, inequalities, contestations

Abstract:

In recent years, perhaps the two most prominent debates in geography on issues of biodiversity conservation have hinged upon, firstly, the positive and negative social impacts of conservation projects on human populations, and, secondly, the apparent neoliberalisation of conservation. Yet so far there have been few explicit linkages drawn between these debates. This paper moves both debates forward by presenting the first review of how the neoliberalisation of conservation has affected the kinds of impacts that conservation projects entail for local communities. It finds that, whilst there are important variegations within neoliberal conservation, processes of neoliberalisation nevertheless tend to produce certain recurring trends in their social impacts. Firstly, neoliberal conservation often involves novel forms of power, particularly those that seek to re-shape local subjectivities in accordance with both conservationist and neoliberal-economic values. Secondly, it relies on greater use of use of representation and spectacle to produce commodities and access related markets, which can both create greater negative social impacts and offer new opportunities for local people to contest and reshape conservation projects. Thirdly, neoliberal conservation projects frequently widen the distribution of social impacts by interacting with pre-existing social, economic, and political inequalities. Accordingly, the paper illuminates how neoliberal approaches to conservation generate novel opportunities and constraints for struggles toward more socially and environmentally just forms of biodiversity preservation.

Key words: Neoliberalism; conservation; social impacts; political ecology; protected areas

Running header: Social impacts of neoliberal conservation

26

27

28 **Introduction**

29 The last few decades have witnessed a rapid proliferation of interest amongst conservation
30 agencies, civil society organisations, bilateral and multilateral donors, and academics about the
31 social impacts of conservation measures, or the ways in which efforts to conserve biodiversity might
32 positively and/or negatively affect the wellbeing of various human populations. Here, wellbeing
33 encompasses a range of factors including livelihoods, culture and cultural survival, political
34 empowerment, and physical and mental health. While conservation projects can deliver benefits
35 such as employment opportunities and revenue from ecotourism or payment for ecosystem service
36 schemes, they can also entail direct or indirect negative consequences, including restrictions on
37 livelihoods, resource access, and forced displacements (West and Brockington, 2005).

38 Disagreements over the nature and distribution of these impacts have given rise to a vociferous and
39 occasionally quite polarised debate within the pages of academic journals, as well as in conservation
40 organisations, donor agencies, and international conferences (e.g. Roe 2008; Brockington and Wilkie
41 2015). In recent years, these debates have been further complicated by an additional trend within
42 academic publications – and largely without attaining a comparable degree of prominence within
43 conservation organisations – about a perceived turn towards so-called ‘neoliberal’ forms of
44 conservation (e.g. Igoe and Brockington 2007; Dressler and Roth 2011; Arsel and Büscher 2012).
45 Here, ‘neoliberal conservation’ refers to a complex and multifaceted trend characterized largely by
46 the rise of practices and discourses of financialisation, marketization, privatization, commodification,
47 and decentralisation within conservation governance (Igoe and Brockington 2007; see also Castree
48 2010; Fairhead et al. 2012). Although the rise of the academic literature on neoliberal conservation
49 has been precipitous – including empirical case studies that explore how neoliberal forms of
50 conservation have affected human wellbeing – there has been no comprehensive overview of these
51 cases. Moreover, literatures on both neoliberalism and neoliberal conservation have grown so
52 rapidly that they have arguably already engendered a certain ‘neoliberalism fatigue’ (e.g. Springer
53 2016), and an accompanying search for novel modes of analysis. Yet, in order to truly appraise the
54 enduring value of neoliberalization as an analytic for examining shifting geographies and political
55 ecologies of conservation, there is a need to carefully examine its identifiable social impacts, with a
56 particular focus on how its novel forms of governance and finance may have precipitated similarly
57 novel patterns of social impact. Only then, we argue, can we properly take stock and identify points
58 at which these inquiries can be productively complemented by other modes of inquiry.

59 This paper begins by briefly outlining key features of the literature on the social impacts of
60 conservation and on neoliberal conservation. Second, we outline the methodology that guided our
61 selection and analysis of relevant scholarship. Third, we present the key findings of a review of
62 empirical case studies exploring neoliberal conservation projects and strategies, focusing on how
63 these are: i) highly empirically diverse, exhibiting different constellations of marketization,
64 privatization, commodification, financialisation, and decentralisation, ii) frequently involve novel
65 forms of power, particularly those aiming to create new market and conservation-friendly
66 livelihoods and subjectivities, iii) rely upon greater use of representation and spectacle to both
67 produce commodities and access related markets, and iv) interact with and exacerbate pre-existing

68 social, economic, and political inequalities. Throughout, we argue that these social impacts of
69 neoliberal conservation present novel opportunities and constraints for achieving more socially and
70 environmentally just forms of conservation in the context of both global ecological and political-
71 economic change.

72 **The Social Impacts of Conservation**

73 Although some publications, conference outputs, and organisations have raised the issue in previous
74 decades (see Roe 2008 for an overview), concerns over the social impacts of conservation rose to
75 unprecedented prominence in the early 2000s through three trends. Firstly, key academic
76 publications on the issue by Stevens (1997), Chatty and Colchester (2002), Brockington (2002),
77 Adams et al. (2004), West and Brockington (2005), West et al. (2006), Wilkie et al. (2006) and
78 Brockington and Igoe (2006), amongst others, explored current and recent impacts from
79 conservation, whilst Neumann (1998), Spence (2000), and Jacoby (2001) explored the negative
80 impacts brought about by the earliest national parks in North America and Africa. Secondly, articles
81 in popular press such as Chapin (2004) and Dowie (2005) brought the issue of negative impacts from
82 conservation projects to a much broader audience, provoking a variety of responses by conservation
83 organisations including denial, disavowal, and irritation. Thirdly, conservation's negative social
84 impacts on indigenous people – both historical and contemporary – were a key theme of discussion
85 at the 2004 World Parks Congress (WPC), to the extent that some prominent conservation biologists
86 complained that such concerns 'dominated and drowned out the discussion of themes more directly
87 related to conserving nonhuman life on this planet' (Terborgh 2004: 619). Related debates have also
88 been sustained to a greater or lesser extent at subsequent WPCs and similar high-level conferences.

89 Some conservation organisations and scientists have responded by disputing the reliability of some
90 case studies of negative social impacts (e.g. Curran et al. 2009; Burgess et al. 2013), by arguing that
91 the literature disproportionately focuses on negative impacts of conservation (e.g. Dudley and
92 Stolton 2010), and by seeking to mitigate such consequences through establishing ostensibly more
93 equitable policies and institutions (see Roe 2008; Dressler et al. 2010). Nevertheless, these debates
94 remain unresolved, with researchers, activists, journalists, and civil society organisations continuing
95 to critique a range of active conservation projects with regard to their social consequences for
96 affected populations.

97 A number of trends can be identified from this literature (for an overview, see reviews including
98 Brockington and Igoe 2006; West et al. 2006; Adams and Hutton 2007). Negative impacts include
99 eviction and exclusion from customary land and natural resources such as grazing land, firewood,
100 bushmeat, medicinal plants, timber, and culturally important resources and places, with implications
101 for both monetary income and non-monetary livelihoods (e.g. Cernea and Schmidt-Soltau, 2006,
102 West et al 2006, Vedeld et al. 2007; Holmes and Brockington, 2012, Oldekop et al. 2015), health and
103 physio-psychological wellbeing (Zahran et al. 2015), as well as culture and cultural survival (West and
104 Brockington, 2004; Hitchcock et al. 2015). Conservation regulations are sometimes imposed or
105 enforced in a harsh, violent, or corrupt manner, precipitating allegations of human rights abuses
106 (e.g. Beymer-Farris and Basset 2012; Cavanagh and Benjaminsen 2014, 2015). Other negative
107 impacts are less direct, such as the social upheaval caused by the sudden growth of a tourism
108 industry (e.g. Benjaminsen and Bryceson 2012; Ojeda 2012). Many of these negative impacts are
109 imbricated within Eurocentric notions of 'wilderness', and the corresponding desire to territorialise

110 conservation spaces that are insulated from human impacts, habitation, and influence (West et al.
111 2006; Adams and Hutton 2007). Such spaces can be imposed because – although conservation
112 organisations may occasionally represent themselves as valiantly struggling to save biodiversity from
113 the callous and incessant expansion of human economies – conservationists tend to have
114 substantially more resources and political influence than the rural communities whose lives they
115 affect (Brockington 2004; Holmes 2013). This is especially the case when the state forcibly imposes
116 conservation regulations, and when conservation objectives become aligned with with
117 (inter)national ‘security’ objectives (Lunstrum 2013; Cavanagh et al. 2015; Massé and Lunstrum
118 2016).

119 Reported positive impacts mirror their negative counterparts, and include more secure land tenure
120 (particularly in the case of indigenous and community conserved areas [ICCAs] – Stevens, 1997,
121 Berkes, 2009), increased income from ecotourism and payment for ecosystem service (PES)
122 schemes, secure or reliable access to natural resources and ecosystem services, employment
123 opportunities, insulation from natural hazards, and compensation schemes for either direct or
124 opportunity costs of conservation (Dudley and Stolton 2010). The question over whether positive
125 impacts tend to be more or less frequent than negative ones is complex and fraught with
126 methodological complications, such as difficulties in systematically gathering data, or comparing
127 very different kinds of impact (Oldekop et al. 2015, Wilkie et al. 2005; Brockington and Wilkie 2015).
128 In some instances, it is complicated by the vested interests of those involved in debating such
129 research, and the reliance on self-reported data within some analyses (Holmes and Brockington
130 2012). This is despite the number of different frameworks and approaches used to study the impacts
131 of conservation, including cost-benefit analyses, institutional approaches, livelihoods frameworks,
132 and political ecology studies rooted in political economy and environmental history. Additionally, the
133 literature to date exhibits a strong focus on protected area issues, particularly stricter terrestrial
134 protected areas (Oldekop et al. 2015), although many other forms of conservation intervention have
135 also been studied.

136 Moreover, calculations of conservation’s costs and benefits often fail to consider the unequal
137 *distribution* of impacts, and the ways in which those individuals or groups who experience negative
138 impacts are often distinct from those who experience benefits. Both positive and negative impacts
139 are frequently unevenly distributed along pre-existing social cleavages, such as gender, class, caste
140 and ethnicity (Adams and Hutton, 2007; Dressler et al. 2013; Tumusiime and Sjaastad 2014).
141 Conservation practices may exacerbate social difference, wherein benefits accrue asymmetrically to
142 wealthier or more powerful members of a community, for example, through processes of elite
143 capture (To et al. 2012; Benjaminsen et al. 2013; Cavanagh and Benjaminsen 2015). Conversely,
144 costs sometimes appear to disproportionately fall upon the already socially, politically and
145 economically marginalized (Adams and Hutton, 2007, Holmes and Brockington, 2012). In some
146 cases, this may be because the impacts of conservation are wrapped up in wider conflicts – for
147 example, the treatment of indigenous groups in Kenyan, Zimbabwean, or Botswanan protected
148 areas largely reflects their respective marginalization in society and politics more generally (e.g.
149 Hitchcock et al. 2015).

150 Further, there has been insufficient exploration, either by reviewing empirical case studies or by
151 drawing upon theoretical insights, of the precise mechanisms that link certain conservation policies
152 to their social impacts. For example, it is unclear how projects using payments for ecosystem

153 services as a key conservation mechanism might result in different impacts, with a different
154 distribution, compared to projects relying upon strict regulations to prohibit the use of natural
155 resources. In part, this is due to a lack of theorisation on the more subtle dimensions of power, of
156 how different conservation strategies seek to mould human behaviour into more conservation-
157 friendly forms (but see Neumann, 2001, Agrawal, 2005; Fletcher 2010). Whereas some forms of
158 power in conservation are straightforward and relatively crude, such as the deployment of state
159 violence to impose the boundaries of conservation ‘fortresses’, others are more complex and subtle,
160 such as attempts to generate support for conservation through collective self-surveillance,
161 employment opportunities, incentive payments, or compensation schemes. Whilst a growing
162 literature examines how conservation regulations might be contested and resisted (Holmes 2007;
163 Benjaminsen et al. 2013; Cavanagh and Benjaminsen 2015; Holmes 2016), there is perhaps
164 inadequate exploration of why these efforts might fail or succeed, and how this relates to the
165 shifting deployment of power in conservation.

166 Although there has been some discussion of trends such as ecotourism and the rise of civil society
167 involvement in conservation governance (e.g. West et al. 2006) there has not been much *empirical*
168 attention to the ways in which processes of neoliberalisation may alter the social impacts of
169 protected areas. This lacuna is particularly curious given the number of scholars who work
170 thematically on both neoliberal conservation and the social impacts of conservation. That said, the
171 former inquiries have yielded a number of important conceptual insights on the ‘nature’ of
172 neoliberal conservation, which we briefly review below.

173 **Neoliberal Conservation**

174 The literature on neoliberalism is vast, precluding a thorough review here. That said, we concur with
175 many geographers and political ecologists that conceptualize neoliberalism as a complex and
176 variable assemblage of ideologies, institutions, discourses, actors, and related practices that seek to
177 broaden and deepen processes of financialisation, privatisation, marketisation, decentralisation,
178 and/or commodification in society (e.g. Peck and Tickell 2002; Igoe and Brockington 2007; Brenner
179 et al. 2010; Peck 2010a; Springer 2010). In this sense, neoliberalism is perhaps better conceptualized
180 as an ongoing and dynamic process rather than a steady economic or social state (Peck, 2010a),
181 which proceeds in uneven and variegated ways in different empirical contexts (see also Brenner et
182 al. 2010). In many cases, such variegation results from the underlying historical-geographical context
183 or ‘out there’ (Peck and Tickell 2002) that processes of neoliberalization inevitably articulate with,
184 from the intensification of state-led capitalism in China, to oil-fuelled urbanization in the United Arab
185 Emirates, to circuits of patronage-based rule in Cambodia (e.g. Springer 2011).

186 Despite such variegations, a number of scholars have now examined the interface between various
187 processes of neoliberalization and the environment, identifying several of neoliberalism’s
188 ‘constituent processes’ (McCarthy and Prudham 2004; Heynen et al. 2007; Castree 2008), the most
189 prominent of which are defined in Table 1. In short, the specification of these constituent processes
190 assists us – following Brenner et al. (2010) – in avoiding the twin pitfalls of both monolithic
191 fetishization, on one hand, and endless contextualization on the other. By focusing on the
192 constituent processes of neoliberalism outlined in table 1, we can analyse the phenomena of
193 neoliberalized conservation, whilst avoiding the analytical trap of simply chronicling the potentially
194 limitless range of place-specific idiosyncrasies. A further analytical danger concerns the (dis)junctures

195 between neoliberalization and various other formations of capitalism. Processes such as
 196 marketization, commodification, and privatization were underway in the nineteenth century as they
 197 are today in many of the historical-geographical contexts discussed below (see also Silver and Arrighi
 198 2003). That said, we have focused our attention on heightened, intensified, or otherwise novel
 199 incarnations of these constituent processes, and especially so when these were previously absent
 200 from prevailing forms of conservation governance.

201 **Table 1 – Constituent processes of neoliberalisation. Adapted from Harvey (2007), Büscher (2010),**
 202 **Castree (2010), Fairhead et al. (2012), Sullivan (2013).**

Marketisation	The regulation of exchange in goods or services via markets rather than an alternative mode of distribution. Often entails commodification and/or privatization as a necessary precondition. Example: Payments for ecosystem services on privately-owned lands in the Amazon (Pokorny et al. 2012).
Commodification	The legal or institutional re-inscription of ‘things’, interactions, processes or services as commodities rather than gifts, entitlements, or rights. Commodities are generally obtained by monetary payment, but not always via markets, and are not always privately owned. Example: Commodification of carbon sequestration or other ecosystem services originating within state-owned protected areas with public trust funds (Nel and Hill 2013; Cavanagh et al. 2015).
Privatization	The conversion of property rights to land, resources, services, or commodities from communal, state, or open access non-property to private ownership. Sometimes entails commodification as a necessary precondition. Example: Privatisation of wildlife on private game reserves in South Africa (e.g. Snijders 2014).
Financialization	The creation and valuation of ‘derivative’ commodities without necessarily commodifying or privatizing an underlying asset or resource. Derivative commodities are not always traded via markets or privately owned. Example: Carbon or biodiversity offsets derived from state managed protected areas and circulated on voluntary ecosystem service markets (e.g. Cavanagh and Benjaminsen 2014).
Decentralisation	The delegation, outsourcing, or extension of administrative functions without necessarily altering underlying property rights, typically via the involvement of ‘flanking organisations’ such as NGOs, community organisations, or private firms. May also be combined with ‘new public management’ strategies and the budgetary surplus-driven management of state agencies. Example: Extension or delegation of protected area management via private and civil society organisations (e.g. Adams et al. 2013).

203

204 Neoliberal conservation is frequently accompanied by a triumphalist ‘triple win’ discourse that
 205 eulogises its ability to simultaneously protect the environment, grow the economy, and deliver
 206 benefits to local communities (Igoe and Brockington 2007). Accordingly, neoliberal conservation’s
 207 proponents typically frame these interventions as fundamentally technical or apolitical in nature, or

208 simply as ‘commonsensical’ attempts to relieve tensions between conservation, environmental
209 change mitigation, and community livelihoods (e.g. Bracking 2015). Conservation’s neoliberalisation
210 has been explained in terms of the search for new outlets for overaccumulated capital, particularly
211 under the auspices of the so-called ‘green economy’, as well as emerging from incentives for
212 conservationists seeking to align with dominant actors, trends, and ideas in order to gain additional
213 power, resources, and influence (Igoe et al. 2010; Fairhead et al. 2012, Holmes 2011). Although
214 conservation’s ability to actually deliver returns to investors – much less ‘market-rate’ returns – has
215 recently been brought into question (e.g. Dempsey and Suarez 2016), we emphasise as well the
216 ‘extra-economic’ dimensions of neoliberalization, which may be as much concerned with the
217 inculcation of new subjectivities and forms of governance as they are with securing profits for
218 individuals and institutions (see especially Neumann 2001; Fletcher 2010).

219 From Table 1, it is clear that neoliberal conservation projects retain the potential for high levels of
220 empirical variegation. For example, individual projects might not always entail the privatisation or
221 decentralisation of state control over natural resources. Indeed, the commodification and
222 financialisation of forest carbon potentially offers incentives for the *recentralisation* of government
223 control over forest resources and the exacerbation of conflicts resulting therefrom (see also Phelps
224 et al. 2010; Sandbrook et al. 2010; Cavanagh et al. 2015). Likewise, although payment for ecosystem
225 service (PES) schemes have sometimes been classified as non-neoliberal or pseudo-neoliberal due to
226 their occasionally tangential engagement with markets (Dempsey and Robertson 2012; McElwee
227 2012; Milne and Adams 2012) – perhaps operating even as an ‘indirect subsidy’ (Lansing 2013) –
228 they may still entail neoliberal processes of commodification, decentralisation, or financialization,
229 with implications for the wellbeing of affected populations.

230 Nonetheless, claims that neoliberal conservation is ‘new’ must be treated with caution. Capitalism
231 was involved in conservation long before neoliberalism emerged (Igoe and Brockington 2007). Many
232 projects labelled as neoliberal conservation also bear the imprint of much longer histories of
233 environmental regulation and its relationship to state formation (Vandergeest and Peluso 1995;
234 Roth and Dressler 2012; Cavanagh and Himmelfarb 2015). There is also often a gap between the
235 neatly conceptualised neoliberalising intentions of conservation projects, and the messy realities of
236 how they are implemented (Fletcher and Breitling 2012). These issues are not always fully accounted
237 for in the literature, perhaps because of an apparent tendency to take political economy theory as a
238 starting point for exploring neoliberal conservation, rather than the empirics of case studies. Further
239 blurring the line between neoliberal and non-neoliberal forms of conservation is the prevalence of
240 global processes of neoliberalisation, denoting that even attempts at non-neoliberal conservation
241 must take place within this broader context and are frequently shaped by it. For example, efforts in
242 Chile to create private protected areas to counter the increased integration of the region’s natural
243 resources into global capitalism are shaped by the Chilean state’s highly neoliberal political
244 structures and economy (Holmes, 2015). Thus, while some conservation strategies attempt to offer a
245 bulwark against neoliberalisation, they discover that they must engage and harness such processes
246 in order to achieve conservation goals. In this sense, ‘neoliberal’ and ‘non-neoliberal’ forms of
247 conservation do not exist in binary opposition, but rather constitute opposite ends of a messy and
248 complex spectrum. In general, however, the above discussion suggests that – just as processes of
249 neoliberalisation and neoliberal conservation variegate across different empirical contexts – so too
250 will their social impacts. It is therefore difficult to deduce the general consequences that practices of
251 neoliberal conservation will produce for the populations they affect (see also Dressler and Roth

252 2011; Roth and Dressler 2012). Nonetheless, based on the methodological approach outlined below,
253 we have sought to identify general patterns or tendencies of social impact within the empirical
254 literature on neoliberal conservation.

255 **Methodology**

256 This study aims to identify patterns and trends in the social impacts of neoliberal conservation
257 projects. To do so, we utilised a comprehensive selection of empirical case study literature as our
258 starting point for informing our findings, as well as for broadly distinguishing between explicitly
259 neoliberal and comparatively non-neoliberal projects. We aimed to identify any general trends in the
260 literature, especially causal mechanisms linking particular social impacts to specific conservation
261 approaches or tools used, and how these regulations were accepted or contested. To identify case
262 studies, we used the Scopus database (first accessed 29th December 2014, and supplemented by
263 further searches throughout 2015). We searched for papers which included in their title, keywords
264 or abstract the word “conservation”, as well as one of “neoliberal*”, “market*”, “PES”, “payments
265 for ecosystem services”, “ecotourism”, “NGO”, as well as one of “resistance”, “cost”, “benefit”,
266 “eviction”, “exclusion”, “impact”. This produced 128 papers. This sample was screened, and papers
267 were included in the final analysis if they detailed at least one empirical case study of an effort to
268 conserve biodiversity, and whether it was judged to be an example of neoliberal conservation. To
269 meet this latter criterion, the case study described must contain one or more of the processes
270 outlined in Table 1. This resulted in an initial sample of 43 papers, which was later supplemented
271 following reviews of literature identified with the same search terms throughout 2015. These papers
272 were coded according to certain criteria, to guide qualitative analysis of the patterns emerging,
273 rather than a quantitative analysis of trends. Criteria included the geographical location of case
274 studies, the nature of the conservation intervention (e.g. a protected area), the presence and type of
275 negative and positive social impacts experienced, whether local people had contested these impacts
276 formally or informally, and the form of neoliberalised conservation being introduced. These included
277 state roll-back, re-regulation, and use of payment based conservation, where the latter was
278 subdivided into ecotourism, carbon-based payments for ecosystem services, and other mechanisms.
279 To ensure that we were capturing the social impacts of specifically neoliberal forms of conservation,
280 rather than broader conservation practices, we only included in our analyses those impacts which
281 were explicitly linked to the constituent processes of neoliberalisation of conservation present in the
282 case study. This does not mean that the impacts can be ascribed entirely to neoliberal conservation,
283 as discussed below, but it does give greater confidence that they are the result of neoliberal logics
284 and processes.

285 While this approach is broad enough to capture the breadth of projects considered as neoliberal
286 conservation, we include three main caveats. First, we do not claim that this is a universal or
287 representative sample of the literature on neoliberal conservation, a virtually impossible task given
288 its variegations. Second, there is a distinct geographical bias in our sample, with almost all cases
289 taken from the global South, reflecting the inattention to the North in both the literature on social
290 impacts of conservation (Oldekop et al, 2015) and that on neoliberal conservation (Apostolopoulou
291 and Adams 2015). Third, there is a challenge in drawing broader lessons from varied case studies
292 (Castree, 2005). As Sullivan (2005) pointed out in an early piece on neoliberal conservation, these
293 cases are bound together by similar logics and practices, the ‘constituent processes’ of
294 neoliberalism. In order to emphasise where the comparability lies between these cases, we focus on

295 how the social impacts identified in the case study are related to the fundamental logics and
296 practices at the heart of neoliberalism, as set out in Table 1. It is this focus on the underlying logics
297 and practices, on neoliberalisation as a phenomena rather than neoliberalism as a singular thing
298 (Sullivan 2005; Peck 2010a), that allows us to compare case studies effectively. Whilst we cannot
299 claim that the social impacts we identify are omnipresent or somehow determined by the adoption
300 of neoliberal conservation practices, we can say that they are common and recurring outcomes of
301 the neoliberalisation of conservation.

302 **Results**

303 Many of the same kinds of impacts, and the same trends regarding their distribution, were found to
304 be present within both the literature on neoliberal conservation and the more general literature on
305 the social impacts of conservation (West et al. 2006, Oldekop et al. 2015). Neoliberal conservation
306 projects have been shown to bring both extra income – for example, as private-community
307 partnerships in Uganda allowed local residents to earn money from ecotourism (Ahebwa et al. 2012)
308 – and reduced income, such as where a neoliberal approach to a marine protected area in Honduras
309 favouring foreign tourist companies heavily restricted the livelihoods of artisanal fishermen (Brondo
310 and Bown, 2011). They can sometimes empower local communities – for example, through greater
311 civil society involvement and community participation in a reserve in Mexico (Doyon and Sabinot,
312 2014), or of fishing communities near a marine protected area in the Philippines (Segi 2014).
313 Conversely, neoliberal conservation projects have also been shown to disempower communities and
314 expose them to greater risk of harsh treatment, such as where tourism economies have led to local
315 communities losing control over their land and suffering from violent enforcement of regulations in
316 Tanzania (Benjaminsen and Bryceson, 2012) and Colombia (Ojeda 2012). Different articulations
317 between the conservation, carbon offsetting, and ecotourism industries have also led to
318 communities being evicted from their land in Guatemala (Devine 2014), Honduras (Timms 2011),
319 and Uganda (Nel and Hill 2013), occasionally with significant violence (Cavanagh and Benjaminsen
320 2014). Impacts have been found to be unevenly distributed by class (Ahebwa et al., 2012), gender
321 (Ogra 2008), ethnicity (Dressler and Roth 2011, Devine, 2014), the ability to maintain congenial
322 relations with conservation authorities (Nakakaawa et al. 2015), and other social characteristics
323 (Tumusiime and Sjaastad 2014; Silva and Motzer 2014). They are occasionally also regressive, with
324 benefits accruing to the already powerful and costs to the weakest (To et al. 2012; Benjaminsen et
325 al. 2013; Lansing 2014). Market based conservation schemes such as ecotourism and payments for
326 ecosystem services are more easily harnessed by the powerful because they have greater economic,
327 political or social capital, which serves as leverage to access such markets (Fletcher 2012). For
328 example, Igoe and Croucher (2007) explore how reforms to facilitate community involvement in
329 ecotourism led to elite capture of wildlife revenues through both legal and illegal means, with similar
330 dynamics leading to the elite capture of revenues from PES schemes in Vietnam (To et al. 2012). At
331 the same time, the weakest in society are most vulnerable to resource grabbing associated with
332 conservation and to cope with the restrictions placed by conservation projects: for instance,
333 Benadusi (2014) shows how local elites, allied with the state, were able to dispossess weaker
334 peasants of their lands surrounding Yala National Park in Sri Lanka during a government initiative to
335 liberalise land markets and facilitate ecotourism.

336 Another broad similarity is that the social impacts of neoliberal conservation projects cannot be
337 understood outside of the broader historical and political context in which they are located. For

338 example, projects in South Africa aiming to integrate communities, ecotourism and protected area
339 management were fundamentally shaped by wider trends in land reforms, race and ethnic relations,
340 and development in the post-Apartheid era (Fay, 2013). Devine (2014) demonstrates how the class
341 and ethnicity based evictions and violence in creating ecotourism in Guatemala are a continuation of
342 previous rounds of such evictions and violence experienced during the long civil war. Cavanagh and
343 Himmelfarb (2015) illuminate how conservation governance in Uganda is inextricably related to
344 much longer processes of state formation and (re)territorialisation, where long histories of tensions
345 between conservation authorities and historically marginalised local populations are only now
346 beginning to articulate with 'neoliberal' interventions.

347 Nonetheless, our review also highlights three trends not widely seen in the broader social impacts of
348 conservation literature, concerning: i) new forms of power and the formation of neoliberal-
349 environmental subjectivities, ii) the use of representation and spectacle to link conservation projects
350 to markets and consumers, and iii) the exacerbation of inequality and social differentiation.

351 ***New Forms of Power and Neoliberal Subjects***

352 Regardless of the precise 'formation' in question, neoliberal conservation is often integrated into
353 people's everyday lives in ways that are different to conventional forms of conservation governance.
354 In classically 'fortress conservation' schemes, regulations generally act primarily against people's
355 livelihoods, for example, as legal-judicial restrictions on using certain resources, enforceable
356 through the courts and punishable by fines and imprisonment. However, in neoliberal conservation
357 there is a tendency to act not simply against, but also *through* existing livelihoods; to re-regulate
358 them by advocating or incentivizing certain kinds of practices rather than merely enforcing
359 restrictions upon pre-existing strategies. The emphasis is not on stopping local people from
360 undertaking certain practices, but also on incentivizing them to adopt desired alternatives. Whilst
361 there is a longer history of conservation interventions working through livelihoods which predates
362 and exists outside of neoliberal forms of conservation, such as alternative livelihood projects, what is
363 different is the extent to which this happens, and the way it is fundamentally linked to novel logics of
364 marketization and commodification in particular. There is an assumption that market mechanisms
365 and forces are the best tools or approaches to saving biodiversity, and these are inevitably livelihood
366 focused. The point of these processes is that local people must become part of this process, their
367 relationship with natural resources reshaped by and conditioned by these market mechanisms.

368 Our review identifies a range of cases in which new, ostensibly both nature and market friendly
369 livelihoods are being created in ecotourism, payments for ecosystem services and related sectors.
370 For example, NGOs and state bodies working to conserve protected areas in Mexico's Yucatan
371 peninsula have sought to regulate local people's behaviour not just through bans on harmful
372 activities, but through measures to transform livelihoods to more conservation-friendly forms
373 dependent on ecotourism, through education programmes, small grants and other means (Doyon
374 and Sabinot, 2014). In Thailand, after decades of coercive bans on certain livelihood activities as the
375 key conservation measure, authorities moved to compliment these with planned transitions from
376 traditional subsistence livelihoods to ones based on conservation, ecotourism, and market friendly
377 agroforestry and cash crop production through low-cost loans, agricultural outreach programmes
378 and privatisation of communal property (Dressler and Roth, 2012; Youdelis 2013). Rather than just
379 banning traditional agriculture as the Vietnamese government expanded its Ba Vi National Park,

380 conservation authorities sought to create conservation-based livelihoods by granting local people
381 private land rights and paying them to reforest land (Dressler et al. 2011). Moreover, case studies
382 from marine protected areas in the Philippines show that, even when strict conservation regulations
383 were ‘forcibly imposed’ around marine protected areas in the Philippines (Segi 2013), relevant
384 authorities and civil society organisations still sought to change behaviour and attitudes through
385 different types of outreach and community participation schemes. As Seki (2009) puts it, the
386 subtlety of such forms of power also leads to complex forms of agency, ones that defy categorization
387 under any simple ‘domination-resistance’ binary. This is also a more insidious form of power –
388 whereas previously local people may have only interacted with conservation when they encountered
389 park rangers or boundary fences, they are increasingly now being incorporated into conservation
390 every time they conduct their new conservation friendly livelihood activities, such as working in
391 tourism, paid reforestation, or growing ‘forest-friendly’ cash crops.

392 Whilst our empirical review shows this increased frequency and depth of regulation within
393 neoliberal forms of conservation, the theoretical literature points to regulation at the level of
394 thoughts and values, particularly via the extension of Foucault’s work on governmentality and
395 subjectification to environmental regulation (e.g. Neumann 2001; Agrawal, 2005; Fletcher 2010). As
396 Neumann (2001) observes, the ‘limits of coercive approaches’ to conservation had become fairly
397 evident by the 1980s, giving rise to a number of community-based conservation (CBC) initiatives (see
398 also Dressler et al. 2010). Neumann (2001: 326) draws upon Foucault’s notion of disciplinary power
399 to explore how conservationists sought not merely to coerce local people into certain patterns of
400 behaviour, but also to internalise conservationist norms by recruiting locals as game scouts, creating
401 a structure in which communities surveil and regulate each other. Similarly, Agrawal (2005) explores
402 Foucault’s work on governmentality, attributing changing local behaviour towards forest resources
403 in India to the way in which governance structures changed the values and ideologies of local
404 people, resulting in the wholesale production of ‘new political subjects’ that adopted or even *desired*
405 new forms of stewardship over the environment. Fletcher (2010) theorises ‘neoliberal
406 environmentality’ as the provision of ‘incentives sufficient to motivate individuals to choose to
407 behave in conservation friendly ways. Especially in the later case, we see the ways in which
408 conservation works not just through threats of legal and/or physical violence, but also via the
409 creation of pro-environment and pro-market subjects. The point here is not that neoliberal forms of
410 environmentality have supplanted the use of coercive sovereign power or disciplinary power, but
411 that each of these forms articulate in novel ways within distinct empirical contexts to produce both
412 environmentally and market-friendly subjects.

413 As a note of caution, it is important to stress that the empirical case studies explored did not
414 demonstrate a total creation of environmental subjects, whose behaviour and subjectivity closely
415 matched that of the ideal neoliberal conservation subject. This may be because the timeframes
416 between the creation of neoliberal approaches in these places and the empirical observations of the
417 researchers was too short, compared to the decades-long framing of Agarwal’s (2005) study. It may
418 also arise from contradictions in the process of subject creation; indeed, as Youdelis (2013) shows,
419 the creation of environmental subjects can also undermine conservation, as attempts to create
420 ‘authentic’ nature-loving Karen people in Thailand to promote ecotourism also allowed people to
421 articulate ‘authentically’ egalitarian Karen-ness as a way of critiquing the uneven spread of benefits
422 of ecotourism. More likely is that the interventions are too partial and limited. Within any
423 community, individuals use a portfolio of mixed livelihood strategies, of different activities at

424 different times, and not all individuals share the same portfolio. Market based conservation projects
425 may only target a few of these activities, or add a few more options, but this still leaves space for
426 alternative strategies, with their own subjectivities. Certainly, local people retain the potential to
427 operate as ‘organic intellectuals’, with the agency to demystify neoliberal conservation, and to use
428 strategies and express ideas and behaviours that do not follow that of the ideal neoliberal
429 conservation subject (Cavanagh and Benjaminsen 2015). This is not to say that there is no shaping of
430 subjectivities by neoliberal conservation, only that it should not be assumed to be all-powerful.

431 ***Representation and Spectacle***

432 Another of neoliberal conservation’s distinctions concerns the necessary centrality of spectacle and
433 representation to its operations (Igoe 2010). Whilst the literature on the social impacts of
434 conservation more generally has identified how Eurocentric ideas, myths, and representations of
435 wilderness has driven certain negative impacts (Brockington 2004; West et al. 2006; Adams and
436 Hutton 2007), neoliberal conservation projects go well beyond this, often relying not only on selling
437 particular goods or services, but also normative ideas or images of how those commodities *should be*
438 *experienced*, such as pristine landscapes and ‘authentic’ cultures that are consumable via ecotourism
439 (Carrier and Macleod 2005; Youdelis 2013), or the global commensurability of different types of
440 carbon emissions (Cavanagh and Benjaminsen 2014). What is being marketised is not only these
441 places and ecosystems, but also an underlying image, conception, or representation of their
442 functionality in practice. Needless to say, such representations may or may not correspond to
443 reality. Yet in order for these markets to operate effectively, they must nonetheless maintain the
444 idea that purchasing an ecotourism package or carbon offset contributes directly to both
445 conservation and local livelihoods, or that reforestation in a tropical country might assist in
446 mitigating climate change. In some cases, these objectives are pursued via the ‘spectacular’ (Igoe
447 2010) enrolment of celebrities and other notable personalities in marketing activities, often
448 mediated by sleek websites and social media campaigns, to the extent that a productive sub-field of
449 critical research has now emerged around the concept of ‘Nature 2.0’ (e.g. Büscher 2013). Crucially,
450 these ‘virtual’ representations can also reshape reality, as individuals internalise the images of
451 nature and culture they are selling to tourists, or as nature is reshaped to be more “authentic”,
452 closer to the image sold to tourists than to the pre-existing reality (Youdelis, 2013; Carrier 2004).

453 These representations can entail negative social impacts. In some cases, local people appear to have
454 been evicted from land or be forced to change their livelihoods so that the reality of ecotourism
455 projects match the image and spectacle used to sell them; in other words, communities must leave
456 so that life imitates the advertiser’s ‘art’ (Hansen et al. 2011). For example, at Tayrona National Park
457 in Colombia, ‘the protection of nature – allegedly made possible by its commodification for tourist
458 consumption – justifies and even legitimates the dispossession of local community members’ (Ojeda
459 2012: 364). Likewise, Vedeld et al. (2012) link their discussion of eviction for conservation at Mikumi
460 National Park in Tanzania to post-independence evictions from the Tanzanian protected area estate
461 more generally, highlighting the overarching ecotourism-driven dimensions of this process. Such
462 expulsions are not *always* undertaken directly by the state. Timms (2011) writes of how the
463 displacement caused by Hurricane Mitch in Honduras resulted in a unique form of ecotourism-driven
464 ‘disaster capitalism’ at Celaque National Park, as population movements suddenly raised the
465 prospect of newly ‘pristine’ and therefore commercially valuable landscapes, prompting state
466 enclosure.

467 Similarly, the representation and spectacularisation of carbon and biodiversity offsetting schemes
468 also appears to provide additional incentives for the removal of certain populations. In some cases,
469 such expulsions appear to be necessary so that processes of carbon sequestration might be more
470 easily measured, quantified, and modelled over time — and therefore more reliably represented as
471 commodities. A number of cases have reported carbon forestry related displacements in Uganda
472 (Cavanagh and Benjaminsen 2014, Nel and Hill 2013, Westoby and Lyons 2015, Grainger and Geary
473 2011). Beymer-Farris and Basset (2012) present a case of large-scale evictions for alleged REDD+
474 readiness activities in the Rufiji delta, Tanzania, apparently to enable similar processes of carbon
475 accounting in mangrove forests. Cavanagh et al. (2015) suggest that such processes may be at work
476 in across the forest estate in eastern Africa more broadly, given that national-level REDD+ readiness
477 activities increasingly provide financial incentives for the removal of alleged ‘squatters’ or
478 ‘encroachers’ from within forested protected areas.

479 Conversely, the centrality of ‘spectacular’ representations to neoliberal conservation also presents
480 novel opportunities for local people to shape or resist conservation projects, and to potentially
481 accrue positive social benefits. In *neoliberal* conservation, a growing range of initiatives and schemes
482 rely increasingly on global markets and donors via certain forms of representation and
483 spectacularisation. This produces new vulnerabilities for conservation, giving disenfranchised local
484 populations new avenues to pursue their struggles, particularly challenging the financial support for
485 conservation. Brondo and Bown (2011) show how Garifuna communities, aided by human rights
486 organisations, were able to successfully challenge the management plan and strategy of a marine
487 protected area in part by demonstrating that claims made by conservation NGOs and government
488 that it would combine environmental protection with local development had not been met.
489 Likewise, the framing of capitalism and conservation as compatible in South Africa was used by
490 Makalele communities to claim rights to land within Kruger National Park, and benefit from
491 ecotourism revenue (Ramutsindela and Shabangu, 2011). The desire – or even the necessity – for
492 some carbon offsetting projects to be seen as a ‘triple win’ for biodiversity, climate mitigation, and
493 local livelihoods creates opportunities for local populations to seek redress for projects that flout
494 one or more of these objectives. In a context of prevailing scepticism and low consumer confidence
495 in carbon markets, there is additional pressure for carbon offsets to be ‘virtuous’ in order to be
496 marketable (Paterson and Stripple 2012 Cavanagh and Benjaminsen 2014).

497 Conservation-affected populations sometimes lack the knowledge or resources to challenge the
498 image and spectacle created around such projects, and to present a counter-image to appropriate
499 audiences in government or the international media (Holmes, 2013). For example, Igoe (2010)
500 demonstrates the huge disparity between representations of conservation and tourism
501 interventions in media produced by conservation NGOs and tourism companies, and the way these
502 media successfully obscure the reality of the impacts of these interventions on local communities. In
503 the cases described by Brondo and Bown (2011), Ramutsindela and Shabangu (2011), and Cavanagh
504 and Benjaminsen (2014, 2015) communities received help from other organisations to ‘jump scales’
505 (Smith 1992) and access important political and legal arenas. In the latter case of carbon offset
506 forestry at Mount Elgon National Park in Uganda, such opposition was successful to some degree,
507 and precipitated the decline and eventual cessation of the scheme in question.

508 But precisely where and when will local populations choose to utilise such opportunities for
509 contesting neoliberal conservation? In the penultimate section of our review, we examine this

510 question through the prism of neoliberal conservation's apparent effects on different forms of
511 inequality and socioeconomic differentiation.

512 ***Inequality and Differentiation***

513 Lastly, our review suggests that processes of neoliberalisation substantially influence the dynamics
514 of both new and pre-existing conservation projects, whether by enhancing or diminishing certain
515 kinds of social impacts. Moreover, regardless of the precise dynamics at work, a key finding seems to
516 be that neoliberalisation alters the *distribution* of both positive and negative benefits, often – but
517 perhaps not universally– increasing pre-existing inequalities and social differentiations.

518 Of course, conventional forms of conservation have also been shown to reproduce or exacerbate
519 existing social and economic inequalities (Paudel 2006; Adams and Hutton 2007), but neoliberal
520 conservation projects can further exacerbate such dynamics, as the commodification and
521 marketization of nature creates new rents and incomes for formal or informal appropriation by elites
522 and patron-client networks. For example, elite capture or manipulation of rents from ecotourism,
523 carbon and biodiversity offsetting, and other PES schemes has been identified as a feature of case
524 studies in Tanzania (Igoe and Croucher 2007; Benjaminsen and Bryceson 2012; Benjaminsen et al.
525 2013; Kijazi 2015), Namibia (Silva and Motzer 2014), Nigeria (Schoneveld 2014), Uganda (Cavanagh
526 and Benjaminsen 2015), Vietnam (To et al. 2012), and Zambia (Bandyopadhyay and Tembo 2010).
527 Crucially, the extent of such forms of rent capture appears to both open up and shut down
528 opportunities for resistance. Although the elite appropriation of additional rents may simply
529 consolidate existing power relations, such intensified consolidation may also catalyse resistance. For
530 example, Dressler et al. (2013) show how villagers near Ba Vi National Park in Vietnam had long
531 resisted conservation regulations through non-cooperation with government directives. Such
532 strategies were undermined by the introduction of neoliberal policies to contract out the
533 management of land and forests, leading to elite capture. In response, local people surreptitiously
534 damaged trees in reforestation schemes on contracted land, and targeted elite-controlled land for
535 sabotage, resulting in an unprecedented worsening of conservation-related conflicts.

536 Secondly, a variety of case studies suggest that the 'baseline' assets of an individual or household
537 also significantly influence the ability to access benefits from new conservation schemes. For
538 example, Pokorny et al. (2012) show how local 'undercapitalized' actors in a transboundary
539 Amazonian PES scheme face competitive disadvantages for accessing payments, largely due to high
540 transaction costs and information asymmetries, with wealthier individuals and firms best placed to
541 benefit from the initiative. These findings corroborate with Lansing's (2014: 1310) study of Costa
542 Rica's PES programme, in which payments were found to 'generally go to larger landowners and [...] exclude certain kinds of smallholders', primarily as a result of the government's broader
543 unwillingness to address historical patterns of land consolidation and inequality. In Vietnam, rising
544 land values in and around forested protected areas as a result of neoliberal conservation have been
545 shown to precipitate a 'land rush' of sorts, in which elites have utilised surplus capital to acquire
546 properties in such locations, exacerbating land consolidation (Dressler et al. 2013).
547

548 Conversely, in Osborne's (2011) analysis of carbon offset forestry payments specifically to
549 smallholding farmers in Mexico, conservation agroforestry practices were found to result in
550 immediate negative impacts in the form of lower productivity and higher labour expenditure,
551 thereby contributing to the concentration of poverty rather than wealth among the smallholding

552 community. Similarly, in Lansing's (2015: 605) comparative analysis of two specific carbon offsetting
553 projects in Costa Rica, household socioeconomic stability or 'flexibility' at baseline was found to
554 influence the ability to benefit from carbon payments, given that relative wealth denotes the ability
555 to absorb costs or shocks related to 20-year commitments to carbon offset contracts, which would
556 'foreclose upon a number of future livelihood adaptation choices.' By implication, then, such findings
557 suggest that neoliberal conservation schemes potentially reinforce much broader processes of
558 agrarian change and differentiation (e.g. Bernstein 2010), wherein new revenue streams contribute
559 to the further consolidation of wealth among larger and more prosperous landholders, and the
560 marginalization or exacerbation of vulnerability among less well-off smallholders.

561 Third, and relatedly, neoliberal conservation may exacerbate inequality by imposing culturally
562 arbitrary distinctions and symbolic differentiations between communities or ethnic groups. For
563 instance, Sundberg (2006) shows how conservation donors and 'flanking organizations' of NGOs
564 favoured a group classified as 'Petenero' in their management plans for the Maya Biosphere Reserve
565 in Guatemala, on the somewhat arbitrary grounds that the Petenero were inherently more
566 conservationist than other communities living nearby. Likewise, Ojeda (2012: 371) writes of a
567 conservationist-driven process of differentiation in Colombia, wherein individuals and communities
568 who were able to demonstrate their 'embodied greenness' via an association with various
569 'indigenous' identities were better placed to benefit from new conservation interventions, whereas
570 other nearby communities were labelled as 'bodies out of place' and therefore as 'eco-threats.'
571 Similar processes are at work in East Africa, where ecotourism enterprises have decreed certain
572 communities, such as the Maasai, to be especially 'indigenous', 'iconic', and therefore of particular
573 interest for incorporation into combined ecotourism and cultural tourism schemes – a move that is
574 somewhat ironic given that the Maasai were in fact one of the last groups to migrate into the
575 territories that are today Kenya and Tanzania (e.g. Comaroff and Comaroff 2009; Hodgson 2011).

576 Finally, although the evidence for this last dynamic was decidedly thinner than the other trends
577 identified above, there may in fact be cases in which neoliberal conservation stands to widen the
578 distribution of *positive* impacts. For instance, Silva and Motzer (2014) provide a somewhat
579 counterintuitive account of ecotourism-based neoliberal conservation in Namibia, in which already
580 marginalized individuals within local communities emerged as some of the most earnest supporters
581 of the implementation of such initiatives. The reasons for this are complex, but appear to arise from
582 the disenchantment of certain elements of communities with their position in prevailing economic
583 and status hierarchies, perhaps related to land inequality and resultant barriers to marriage,
584 respectability, or full social adulthood. Here, neoliberal conservation appears to have provided new
585 opportunities for social mobility in the context of otherwise entrenched social and economic
586 inequality. Indeed, as Gardner (2012) argues, certain individuals and communities may elect to
587 support similar neoliberal conservation initiatives, notwithstanding the inequities and inequalities
588 that they entail. This may be so simply because they create a limited number of economic
589 opportunities in the context of otherwise serious poverty and material deprivation, or because they
590 provide a novel arena for contesting state claims to land and territory. Likewise, Green and Adams
591 (2015: 112) explain why certain local-level individuals elected to actively participate in ecotourism
592 schemes within Tanzanian Wildlife Management Areas (WMAs) – even as such schemes resulted in
593 instances of 'green grabbing' more broadly – precisely 'to position themselves to benefit from the
594 opportunities presented by neoliberalization'.

595 Collectively, such findings are highly suggestive for a broader understanding of why communities or
596 certain community strata may or may not elect to contest neoliberal conservation, perhaps even if it
597 entails a certain degree of negative social impact. In other words, even the most highly marginalized
598 individuals within a given community may choose not to resist neoliberal interventions if such
599 schemes promise novel opportunities for upward social mobility, checks on the power of the state,
600 or broadened access to resources or privileges normally enjoyed only by local elites. Consequently, it
601 is this interplay between the exacerbation and alleviation of different forms of inequality, along with
602 the corresponding possibilities for successful forms of contestation, which will greatly influence
603 whether communities choose to resist neoliberal conservation in its various empirical formations.

604 **Discussion and Conclusion**

605 Overall, it is difficult to infer from our review that neoliberal forms of conservation either collectively
606 improve or degrade human wellbeing, whether absolutely or in relation to other forms of
607 conservation intervention. In large part, this is due to broader difficulties in measuring and
608 comparing very different forms of impact, and the availability of appropriate data. Yet this is also
609 due to the status of neoliberal conservation projects as an evolution or reworked continuation of
610 previous initiatives, which therefore contain within them the legacies of previous iterations of
611 design, function, and social relations (Roth and Dressler 2012; Cavanagh and Himmelfarb 2015).
612 Indeed, such historical (dis)continuities complicate any straightforward analysis of how the social
613 impacts of conservation shift in accordance with contemporary governance strategies. Moreover,
614 although it might be tempting for critical researchers to conclude that neoliberal conservation
615 universally produces negative social impacts on human wellbeing, one must also acknowledge the
616 empirical instances in which diverse constituencies have discovered the perhaps counter-intuitive
617 ‘uses of neoliberalism’ (Ferguson 2010) for contesting their marginalization or subjugation to the
618 whims of more powerful actors.

619 Notwithstanding these complexities, we have identified four broad trends concerning the
620 relationship between neoliberal conservation and its social impacts. Firstly, it must be said that the
621 incarnations of neoliberal conservation are empirically diverse, resulting in different patterns of
622 social impact depending on the exact neoliberal ‘formation’ involved. Indeed, the cases reviewed
623 above each involve novel constellations of marketization, privatisation, commodification,
624 financialisation, and decentralisation, understandably resulting in a similarly diverse range of social
625 impacts.

626 Secondly, despite such empirical variability, neoliberal conservation strategies collectively tend to
627 involve novel forms of power relations – ones that work through rather than merely upon or against
628 local identities, subjectivities, and livelihoods. In some cases, this appears to involve the production
629 of so-called ‘neoliberal environmentalities’, in which people come to desire new forms of
630 engagement with both markets and the environment. In other words, conservation regulations are
631 moving from being an external force to working within the lives of rural people, changing their
632 behaviour not just by threatening them with the law and its agents, but also by appealing to
633 economic rationales and altering values and ideologies.

634 Thirdly, we find that practices of representation and spectacularisation are increasingly central to
635 the workings of neoliberal conservation. In the first instance, such representations are necessary for
636 linking particular ecotourism or PES projects to global markets and often geographically distant

637 consumers. Conversely, such representations also present novel vulnerabilities for resistance to
638 conservation, giving disenchanted actors a novel means of challenging the distribution of negative
639 social impacts from conservation. Though communities often need to forge alliances with NGOs,
640 activists, researchers, or journalists to fully harness such strategies, they perhaps nuance more
641 pessimistic accounts about the capacities of fortress conservation to simply repress local opposition
642 (e.g. Brockington 2004, Holmes, 2013).

643 Finally, we find that neoliberal conservation broadly tends to intensify dynamics pertaining to the
644 distribution of both positive and negative social impacts. It does so in a variety of ways: by
645 increasing the scale of resources available for elite capture; by structurally rewarding participants
646 that were economically better-off at baseline; and occasionally by imposing arbitrary symbolic
647 distinctions between certain social or ethnic groups, which retain implications for who is most able
648 to benefit from conservation. Conversely, we have also identified a modest amount of evidence to
649 suggest that, under certain conditions, neoliberal conservation may actually contribute to the
650 *alleviation* of certain forms of pre-existing inequalities, primarily via the disruption of prevailing
651 economic and status hierarchies. Accordingly, the interplay between the exacerbation and
652 alleviation of such inequalities will greatly impact decisions about whether communities – or certain
653 strata within communities – choose to resist or acquiesce to different neoliberal interventions.
654 Future research might thus consider, whilst taking into account the particularities of place and the
655 variegations between specific formations of neoliberal conservation, why different processes
656 involved in the neoliberalisation of conservation do or do not elicit various forms of resistance, or
657 produce certain patterns of social differentiation and class formation (e.g. Bernstein 2010). Further,
658 there is also a need for studies which review and explain the varieties of specifically *environmental*
659 or ecological – rather than merely social – impacts of neoliberal conservation, which are of growing
660 importance in relation to deleterious processes of global environmental change.

661 In aggregate, then, these findings suggest the need for sustained, critical engagements with the
662 geographies and political ecologies of neoliberal conservation, but also perhaps point to the limits of
663 neoliberalization as a useful empirical analytic. Admittedly, the distinctions and divergences
664 between the above-discussed neoliberal conservation initiatives and neoliberal doctrine *as such*
665 might lead some analysts to classify them as ‘hybridized’, ‘impure’, ‘incompletely neoliberal’, or
666 otherwise ‘pseudo-neoliberal’. In this regard, there is surely space for novel analyses and
667 interrogations of the changing forms of conservation governance, as well as explanations of its
668 diverse social and economic outcomes. Conversely, though – as Peck (2010a: 15) once put it – ‘just
669 because neoliberalism does not, indeed cannot, satisfy these absolutist, hyperbolic criteria, this does
670 not mean that it is a figment of the (critical) imagination.’ What should fascinate us about both
671 neoliberalism and neoliberal conservation, we argue, is precisely their empirical variability or
672 flexibility; in other words, their chameleonic ‘nature’ and adaptability to diverse social, economic,
673 and political contexts or agendas. Ultimately, it is the durability of neoliberal approaches and the
674 support from elites that they continue to enrol that demands sustained examination from critical
675 human geographers and political ecologists, especially those concerned with identifying more
676 socially and environmentally just modes of conservation in an era of both global environmental and
677 political-economic change.

678 **References**

679 Adams, W. M., Hodge, I. D., & Sandbrook, L. (2014). New spaces for nature: the reterritorialization of
680 biodiversity conservation under neoliberalism in the UK. *Transactions of the Institute of British*
681 *Geographers*, 39(4), 574-588.

682 Adams, W. M., Aveling, R., Brockington, D., Dickson, B., Elliott, J., Hutton, J., ... & Wolmer, W. (2004).
683 Biodiversity conservation and the eradication of poverty. *Science*, 306(5699), 1146-1149.

684 Adams, W.M., & Hutton, J. (2007.). People, parks and poverty: Political ecology and biodiversity
685 conservation. *Conservation and Society*, 5(2), pp.147-183.

686 Adams, W. M., & Sandbrook, C. (2013). Conservation, evidence and policy. *Oryx*, 47(03), 329-335.

687 Agrawal, A. (2005). *Environmentality: technologies of government and the making of subjects*.
688 Durham, NC: Duke University Press.

689 Ahebwa, W. M., V René Van der Duim, and Chris G Sandbrook. 2012. Private-community
690 partnerships: Investigating a new approach to conservation and development in Uganda.
691 *Conservation and Society* 10 (4): 305.

692 Apostolopoulou, E., & Adams, W. M. (2015). Neoliberal Capitalism and Conservation in the Post-
693 crisis Era: The Dialectics of "Green" and "Un-green" Grabbing in Greece and the UK. *Antipode*, 47(1),
694 15-35.

695 Arsel, M., & Büscher, B. (2012). Nature™ Inc.: Changes and Continuities in Neoliberal Conservation
696 and Market-based Environmental Policy. *Development and Change*, 43(1), 53- 78.

697 Bandyopadhyay, S., & Tembo, G. (2010). Household consumption and natural resource management
698 around national parks in Zambia. *Journal of Natural Resources Policy Research*, 2(1), 39-55.

699 Benadusi, Mara. 2014. "Elephants Never Forget: Capturing Nature at the Border of Ruhuna National
700 Park (Yala), Sri Lanka." *Capitalism Nature Socialism* (ahead-of-print):1-20.

701 Benjaminsen, T. A., & Bryceson, I. (2012). Conservation, green/blue grabbing and accumulation by
702 dispossession in Tanzania. *Journal of Peasant Studies*, 39(2), 335-355.

703 Benjaminsen, T. A., Goldman, M. J., Minwary, M. Y., & Maganga, F. P. (2013). Wildlife management
704 in Tanzania: state control, rent seeking and community resistance. *Development and Change*, 44(5),
705 1087-1109.

706 Beymer-Farris, B. A., & Bassett, T. J. (2012). The REDD menace: Resurgent protectionism in
707 Tanzania's mangrove forests. *Global Environmental Change*, 22(2), 332-341.

708 Berkes, F. (2009). Community conserved areas: policy issues in historic and contemporary context.
709 *Conservation letters*, 2(1), 20-25.

710 Bernstein, H. (2010). *Class dynamics of agrarian change*. Halifax: Kumarian Press.

711 Bracking, S. (2015). The Anti - Politics of Climate Finance: The Creation and Performativity of the
712 Green Climate Fund. *Antipode*, 47(2), 281-302.

- 713 Brenner, N., Peck, J., & Theodore, N. (2010). Variegated neoliberalization: geographies, modalities,
714 pathways. *Global networks*, 10(2), 182-222.
- 715 Brockington, D. (2002). *Fortress conservation: the preservation of the Mkomazi Game Reserve,*
716 *Tanzania*. Oxford: James Currey.
- 717 Brockington, D. 2004. Biodiversity conservation, inequality and injustice: Myths of power in
718 protected area management. *Conservation and society*. 2(2).
- 719 Brockington, D., & Igoe, J. (2006). Eviction for conservation: A global overview. *Conservation and*
720 *society*, 4(3), 424.
- 721 Brockington, D., & Wilkie, D. (2015). Protected areas and poverty. *Philosophical Transactions of the*
722 *Royal Society B* 370(1681): 20140271.
- 723 Brockington, D., Duffy, R., & Igoe, J. (2008). *Nature unbound: Conservation, capitalism and the future*
724 *of protected areas*. London: Earthscan.
- 725 Brondo, Keri Vacanti, and Natalie Bown. 2011. "Neoliberal conservation, garifuna territorial rights
726 and resource management in the cayos cochinos marine protected area." *Conservation and Society*
727 no. 9 (2):91.
- 728 Burgess, N. D., Mwakalila, S., Munishi, P., Pfeifer, M., Willcock, S., Shirima, D., ... & Marchant, R.
729 (2013). REDD herrings or REDD menace: response to Beymer-Farris and Bassett. *Global*
730 *Environmental Change*, 23(5), 1349-1354.
- 731 Büscher, B. (2013). Nature 2.0. *Geoforum*, 44, 1-3.
- 732 Büscher, Bram, and Wolfram Dressler. 2012. Commodity conservation: the restructuring of
733 community conservation in South Africa and the Philippines. *Geoforum* 43(3): 367-376.
- 734 Carrier, J. G., & Macleod, D. V. (2005). Bursting the bubble: The socio-cultural context of ecotourism.
735 *Journal of the Royal Anthropological Institute*, 11(2), 315-334.
- 736 Carrier, J. (2004) Ecotourism and authenticity. *Current Anthropology* 45, 483-498.
- 737 Castree, N. (2005). The epistemology of particulars: Human geography, case studies and 'context'.
738 *Geoforum*, 36(5), 541-544.
- 739 Castree, N. (2008). Neoliberalising nature: the logics of deregulation and reregulation. *Environment*
740 *and planning. A*, 40(1), 131.
- 741 Castree, N. (2010). Neoliberalism and the biophysical environment 1: What 'neoliberalism' is, and
742 what difference nature makes to it. *Geography Compass*, 4(12), 1725-1733.
- 743 Cavanagh, C., & Benjaminsen, T. A. (2014). Virtual nature, violent accumulation: the 'spectacular
744 failure' of carbon offsetting at a Ugandan National Park. *Geoforum*, 56, 55-65.
- 745 Cavanagh, C. J., & Benjaminsen, T. A. (2015). Guerrilla agriculture? A biopolitical guide to illicit
746 cultivation within an IUCN Category II protected area. *Journal of Peasant Studies*, 42(3-4), 725-745.

- 747 Cavanagh, C.J. and D. Himmelfarb. (2015). 'Much in blood and money': Necropolitical ecology on the
748 margins of the Uganda Protectorate. *Antipode* 47(1): 55-73.
- 749 Cavanagh, C. J., Vedeld, P. O., & Trædal, L. T. (2015). Securitizing REDD+? Problematizing the
750 emerging illegal timber trade and forest carbon interface in East Africa. *Geoforum*, 60, 72-82.
- 751 Cernea, M. & Schmidt-Soltau, K. (2006). Poverty risks and national parks: Policy issues in
752 conservation and resettlement. *World development* 34, 1808-1830
- 753 Chapin, M. 2004. A challenge to conservationists. *World Watch Magazine* (November/December),
754 17-31.
- 755 Chatty, D., & Colchester, M. (Eds.). (2002). *Conservation and mobile indigenous peoples:
756 Displacement, forced settlement, and sustainable development*. Berghahn Books.
- 757 Comaroff, J. and J. Comaroff. (2009). *Ethnicity, Inc*. Chicago, IL: University of Chicago Press.
- 758 Curran, B., T. Sunderland, F. Maisels., *et al.* 2009. Are central Africa's protected areas displacing
759 hundreds of thousands of rural poor? *Conservation and Society* 7(1): 30-45.
- 760 Dempsey, J., & Robertson, M. M. (2012). Ecosystem services Tensions, impurities, and points of
761 engagement within neoliberalism. *Progress in Human Geography*, 36(6), 758-779.
- 762 Dempsey, J., & Suarez, D. C. (2016). Arrested Development? The Promises and Paradoxes of "Selling
763 Nature to Save It". *Annals of the American Association of Geographers*, 106(3), 653-671.
- 764 Devine, J. (2014). Counterinsurgency ecotourism in Guatemala's Maya Biosphere Reserve.
765 *Environment and Planning D: Society and Space* 32: 984-1001.
- 766 Dowie, M. (2005). Conservation refugees: When protecting nature means kicking people out. *Orion*
767 24.6: 16f.
- 768 Doyon, S., and C. Sabinot. (2014). A New 'Conservation Space'? Protected Areas, Environmental
769 Economic Activities and Discourses in Two Yucatán Biosphere Reserves in Mexico. *Conservation and*
770 *Society* 12 (2):133.
- 771 Dressler, W., & Roth, R. (2011). The good, the bad, and the contradictory: neoliberal conservation
772 governance in rural Southeast Asia. *World Development*, 39(5), 851-862.
- 773 Dressler, W., Büscher, B., Schoon, M., Brockington, D., Hayes, T., Kull, C. A., ... & Shrestha, K. (2010).
774 From hope to crisis and back again? A critical history of the global CBNRM narrative. *Environmental*
775 *conservation*, 37(01), 5-15.
- 776 Dressler, W., P.X. To, and S. Mahanty. (2013). How Biodiversity Conservation Policy Accelerates
777 Agrarian Differentiation: The Account of an Upland Village in Vietnam. *Conservation and Society*
778 11(2): 130.
- 779 Dudley, N., & Stolton, S. (2010). *Arguments for protected areas: multiple benefits for conservation*
780 *and use*. London: Routledge.

- 781 Fairhead, J., Leach, M., & Scoones, I. (2012). Green Grabbing: a new appropriation of nature? *Journal*
782 *of Peasant Studies*, 39(2), 237-261.
- 783 Fay, D. 2013. Neoliberal conservation and the potential for lawfare: New legal entities and the
784 political ecology of litigation at Dwesa–Cwebe, South Africa. *Geoforum* 44: 170-181.
- 785 Ferguson, J. (2010). The uses of neoliberalism. *Antipode*, 41(s1), 166-184.
- 786 Fletcher, R. (2010). Neoliberal environmentality: Towards a poststructuralist political ecology of the
787 conservation debate. *Conservation and Society*, 8(3), 171-181.
- 788 Fletcher, R. (2012). Using the master's tools? Neoliberal conservation and the evasion of inequality.
789 *Development and Change* 43(1): 295-317.
- 790 Foucault, M. (2008). *The Birth of Biopolitics*. New York: Picador.
- 791 Gardner, B. (2012). Tourism and the politics of the global land grab in Tanzania: markets
792 appropriation and recognition. *Journal of Peasant Studies*, 39(2), 377-402.
- 793 Gibson-Graham, J.K. (2006). *A post-capitalist politics*. Minneapolis, MN: University of Minnesota
794 Press.
- 795 Grainger, M., & Geary, K. (2011). *The New Forests Company and its Uganda plantations*. Washington
796 DC: OXFAM International.
- 797 Green, K. and W.M. Adams. (2015). Green grabbing and the dynamics of local-level engagement with
798 neoliberalization in Tanzania's wildlife management areas. *Journal of Peasant Studies* 42(1): 97-117.
- 799 Harvey, D. (2007). *A brief history of neoliberalism*. Oxford: Oxford University Press.
- 800 Heynen, N., McCarthy, J., Prudham, S., & Robbins, P. (Eds.). (2007). *Neoliberal environments: false*
801 *promises and unnatural consequences*. London: Routledge.
- 802 Hitchcock, R. K., Sapignoli, M., & Babchuk, W. A. (2015). Settler colonialism, conflicts, and genocide:
803 interactions between hunter-gatherers and settlers in Kenya, and Zimbabwe and northern
804 Botswana. *Settler Colonial Studies*, 5(1), 40-65.
- 805 Hodgson, D. L. (2011). *Being Maasai, becoming indigenous: postcolonial politics in a neoliberal*
806 *world*. Bloomington: Indiana University Press.
- 807 Holmes, G. (2007). Protection, politics and protest: understanding resistance to conservation.
808 *Conservation and Society*, 5(2), 184.
- 809 Holmes, G. (2013). Exploring the relationship between local support and the success of protected
810 areas *Conservation and Society*, 11(1)
- 811 Holmes, G. (2015). Markets, nature, neoliberalism, and conservation through private protected
812 areas in southern Chile. *Environment and Planning A*, 47(4), 850-866.
- 813 Holmes, G. (2016). Conservation crime as political protest. In J.F. Donnermeyer (ed), *The Routledge*
814 *International Handbook of Rural Criminology*. London: Routledge, pp. 309-317.

815 Holmes, G. & Brockington, D. (2012). Protected Areas—What People Say about Well-Being.
816 *Biodiversity conservation and poverty alleviation: Exploring the evidence for a link*, 160-172. Oxford:
817 Wiley.

818 Igoe, J. (2010). The spectacle of nature in the global economy of appearances: Anthropological
819 engagements with the spectacular mediations of transnational conservation. *Critique of*
820 *Anthropology*, 30(4), 375-397.

821 Igoe, J. and Brockington, D. (2007). Neoliberal conservation: A brief introduction. *Conservation and*
822 *Society*, 5(4), pp.432-449. .

823 Igoe, J., and B. Croucher. (2007). Conservation, commerce, and communities: the story of
824 community-based wildlife management areas in Tanzania's northern tourist circuit. *Conservation*
825 *and Society* 5 (4): 534.

826 Igoe, J., Neves, K., & Brockington, D. (2010). A spectacular eco-tour around the historic bloc:
827 Theorising the convergence of biodiversity conservation and capitalist expansion. *Antipode*, 42(3),
828 486-512.

829 Jacoby, K. (2014). *Crimes against nature: squatters, poachers, thieves, and the hidden history of*
830 *American conservation*. Berkeley, CA: University of California Press.

831 Kijazi, M. (2015). Climate emergency, carbon capture, and coercive conservation on Mt. Kilimanjaro.
832 In M. Leach and I. Scoones (eds), *Carbon conflicts and forest landscapes in Africa*, pp. 58-78. London:
833 Routledge.

834 Lansing, D. M. (2013). Understanding linkages between ecosystem service payments, forest
835 plantations, and export agriculture. *Geoforum*, 47, 103-112.

836 Lansing, D. M. (2014). Unequal Access to Payments for Ecosystem Services: The Case of Costa Rica.
837 *Development and Change*, 45(6), 1310-1331.

838 Lansing, D. M. (2015). Carbon Forestry and Sociospatial Difference: An Examination of Two Carbon
839 Offset Projects among Indigenous Smallholders in Costa Rica. *Society & Natural Resources*, 28(6),
840 593-608.

841 Lunstrum, E. (2013). Articulated sovereignty: extending Mozambican state power through the Great
842 Limpopo Transfrontier Park. *Political Geography*, 36, 1-11.

843 Lyons, K., & Westoby, P. (2014). Carbon colonialism and the new land grab: plantation forestry in
844 Uganda and its livelihood impacts. *Journal of Rural Studies*, 36, 13-21.

845 Massé, F., & Lunstrum, E. (2016). Accumulation by securitization: commercial poaching, neoliberal
846 conservation, and the creation of new wildlife frontiers. *Geoforum*, 69, 227-237.

847 McCarthy, J., & Prudham, S. (2004). Neoliberal nature and the nature of neoliberalism. *Geoforum*,
848 35(3), 275-283.

849 McElwee, P. D. (2012). Payments for environmental services as neoliberal market-based forest
850 conservation in Vietnam: Panacea or problem? *Geoforum*, 43(3), 412-426.

851 Milne, S., & Adams, B. (2012). Market Masquerades: uncovering the politics of communitylevel
852 payments for environmental services in Cambodia. *Development and Change*, 43(1),133-158.

853 Nakakaawa, C., Moll, R., Vedeld, P., Sjaastad, E., & Cavanagh, C.J. (2015). Collaborative resource
854 management and rural livelihoods around protected areas: A case study of Mount Elgon National
855 Park, Uganda. *Forest Policy and Economics* 57: 1-11.

856 Nel, A., & Hill, D. (2013). Constructing walls of carbon—the complexities of community, carbon
857 sequestration and protected areas in Uganda. *Journal of Contemporary African Studies*, 31(3), 421-
858 440.

859 Neumann, R.P. (1998). *Imposing wilderness*. Berkeley, CA: University of California Press.

860 Neumann, R. (2001). Disciplining peasants in Tanzania: From state violence to selfsurveillance in
861 wildlife conservation. In N.L. Peluso and M. Watts (eds), *Violent environments*, 305-327. Ithaca:
862 Cornell University Press.

863 Ogra, M. V. (2008). Human–wildlife conflict and gender in protected area borderlands: a case study
864 of costs, perceptions, and vulnerabilities from Uttarakhand (Uttaranchal), India. *Geoforum*, 39(3),
865 1408-1422.

866 Ojeda, D. (2012). Green pretexts: Ecotourism, neoliberal conservation and land grabbing in Tayrona
867 National Natural Park, Colombia. *Journal of Peasant Studies*, 39(2), 357-375.

868 Oldekop, J. A., Holmes, G., Harris, W. E., & Evans, K. L. (2015). A global assessment of the social and
869 conservation outcomes of protected areas. *Conservation Biology*.

870 Osborne, T. M. (2011). Carbon forestry and agrarian change: access and land control in a Mexican
871 rainforest. *Journal of Peasant Studies*, 38(4), 859-883.

872 Paterson, M., & Stripple, J. (2012). Virtuous carbon. *Environmental Politics*, 21(4), 563-582.

873 Paudel, N.S. 2006. Protected areas and the reproduction of social inequality. *Policy Matters* 14: 155-
874 169.

875 Peck, J. (2010a). *Constructions of neoliberal reason*. Oxford: Oxford University Press.

876 Peck, J. (2010b). Zombie neoliberalism and the ambidextrous state. *Theoretical Criminology*, 14(1),
877 104-110.

878 Peck, J., & Tickell, A. (2002). Neoliberalizing space. *Antipode*, 34(3), 380-404.

879 Phelps, J., Webb, E. L., & Agrawal, A. (2010). Does REDD+ threaten to recentralize forest
880 governance? *Science*, 328(5976), 312-313.

881 Pokorny, B., Johnson, J., Medina, G., & Hoch, L. (2012). Market-based conservation of the Amazonian
882 forests: revisiting win–win expectations. *Geoforum*, 43(3), 387-401.

883 Roe, D. 2008. The origins and evolution of the conservation poverty debate: a review of key
884 literature, events and policy processes. *Oryx*. 42(4), 491-503.

885 Roth, R. J., & Dressler, W. (2012). Market-oriented conservation governance: The particularities of
886 place. *Geoforum*, 43(3), 363-366.

887 Sandbrook, C., Nelson, F., Adams, W. M., & Agrawal, A. (2010). Carbon, forests and the REDD
888 paradox. *Oryx*, 44(03), 330-334.

889 Schoneveld, G. C. (2014). The politics of the forest frontier: Negotiating between conservation,
890 development, and indigenous rights in Cross River State, Nigeria. *Land Use Policy*, 38, 147-162.

891 Segi, S. (2013). The Making of Environmental Subjectivity in Managing Marine Protected Areas: A
892 Case Study from Southeast Cebu. *Human Organization*, 72(4), 336-346.

893 Segi, S. (2014). Protecting or pilfering? Neoliberal conservationist marine protected areas in the
894 experience of coastal Granada, the Philippines. *Human ecology*, 42(4), 565-575.

895 Seki, K. (2009). Green Neoliberalism, Ecogovernmentality, and Emergent Community: A Case of
896 Coastal Resource Management in Palawan, the Philippines. *Philippine Studies* 57(4): 543-578.

897 Silva, J. A., & Motzer, N. (2015). Hybrid Uptakes of Neoliberal Conservation in Namibian Tourism-
898 based Development. *Development and Change*, 46(1), 48-71.

899 Silver, B. J. and G. Arrighi. (2003). 'Polanyi's "double movement": the belle époques of British and US
900 hegemony compared.' *Politics and Society* 31, 325-55.

901 Smith, N. (1992). Contours of a spatialized politics: homeless vehicles and the production of
902 geographical scale. *Social text*, 33, 55-81.

903 Snijders, D. (2012). Wild property and its boundaries—on wildlife policy and rural consequences in
904 South Africa. *Journal of Peasant Studies*, 39(2), 503-520.

905 Spence, M. D. (2000). *Dispossessing the wilderness: Indian removal and the making of the national*
906 *parks*. Oxford: Oxford University Press.

907 Springer, S. (2010). Neoliberalism and geography: Expansions, variegations, formations. *Geography*
908 *Compass*, 4(8), 1025-1038.

909 Springer, S. (2011). Articulated neoliberalism: the specificity of patronage, kleptocracy, and violence
910 in Cambodia's neoliberalization. *Environment and Planning-Part A*, 43(11), 2554.

911 Springer, S. (2016). Fuck neoliberalism. *ACME: An International Journal for Critical Geographies*
912 15(2): 285-292.

913 Stevens, S. (1997) *Conservation through cultural survival: Indigenous peoples and protected areas*.
914 Washington D.C.: Island Press.

915 Sullivan, S (2006). "Elephant in the room? Problematizing 'new' (neoliberal) biodiversity
916 conservation." *Forum for Development Studies*. 33(1)

917 Sullivan, S. (2013). Banking nature? The spectacular financialisation of environmental conservation.
918 *Antipode*, 45(1), 198-217.

- 919 Terborgh, J. 2004. Reflections of a Scientist on the World Parks Congress. *Conservation Biology*.
920 18(3), 619-620.
- 921 Timms, B. F. (2011). The (mis)use of disaster as opportunity: Coerced relocation from Celaque
922 National Park, Honduras. *Antipode*, 43(4), 1357-1379.
- 923 To, P. X., Dressler, W. H., Mahanty, S., Pham, T. T., & Zingerli, C. (2012). The prospects for payment
924 for ecosystem services (PES) in Vietnam: a look at three payment schemes. *Human Ecology*, 40(2),
925 237-249.
- 926 Tumusiime, D. M., & Sjaastad, E. (2014). Conservation and development: Justice, inequality, and
927 attitudes around Bwindi Impenetrable National Park. *Journal of Development Studies*, 50(2), 204-
928 225.
- 929 Ramutsindela, M., and M. Shabangu. (2013). Conditioned by neoliberalism: a reassessment of land
930 claim resolutions in the Kruger National Park." *Journal of Contemporary African Studies* 31.3, 441-
931 456.
- 932 Vandergeest, P., & Peluso, N. L. (1995). Territorialization and state power in Thailand. *Theory and*
933 *society*, 24(3), 385-426.
- 934 Vedeld, P., Angelsen, A., Boj , J., Sjaastad, E., & Berg, G. K. (2007). Forest environmental incomes
935 and the rural poor. *Forest Policy and Economics*, 9(7), 869-879.
- 936 Vedeld, P., Jumane, A., Wapalila, G., & Songorwa, A. (2012). Protected areas, poverty and conflicts: A
937 livelihood case study of Mikumi National Park, Tanzania. *Forest Policy and Economics*, 21, 20-31.
- 938 West, P. and Brockington, D. 2006. An Anthropological Perspective on Some Unexpected
939 Consequences of Protected Areas. *Conservation Biology*. 20(3), pp.609-616.
- 940 West, P. et al. 2006. Parks and Peoples: The Social Impact of Protected Areas. *Annual Review Of*
941 *Anthropology*. 35(1), pp.251-277.
- 942 Westoby, P., & Lyons, K. (2015). 'We would rather die in jail fighting for land, than die of hunger': a
943 Ugandan case study examining the deployment of corporate-led community development in the
944 green economy. *Community Development Journal*, doi:10.1093/cdj/bsv005.
- 945 Wilkie, D.S. et al. (2006). Parks and People: Assessing the Human Welfare Effects of Establishing
946 Protected Areas for Biodiversity Conservation. *Conservation Biology*. 20(1), 247-249.
- 947 Youdelis, Megan. 2013. The competitive (dis)advantages of ecotourism in Northern Thailand.
948 *Geoforum* 50:161-171.
- 949 Zahran, S. et al. 2015. Stress and telomere shortening among central Indian conservation refugees.
950 *Proceedings of the National Academy of Sciences*. 112(9), pp.E928-E936.