



# What Future for Protected Areas? Analysing the Mismatch between South Africa's Pre-existing Protected areas System and the Declared vision in Contemporary Conservation Policy

R. C. Alberts <sup>1,2</sup> · F. P. Retief <sup>1,2</sup> · A. J. Bond <sup>1,2,3</sup> · C. Roos <sup>1,2</sup> · D. P. Cilliers <sup>1,2</sup>

Received: 24 June 2024 / Accepted: 16 September 2024  
© The Author(s) 2024

## Abstract

Designation of protected areas has enjoyed global application as a means of biodiversity conservation for over 100 years. National conservation policy is essential as a means of protecting biodiversity, but is contingent on, amongst others, changing values and international drivers, and remains dynamic in many countries. As conservation policies evolve, the role of pre-existing protected areas within broader strategies for conservation can become unclear, with consequences both for the ability of the conservation policies to achieve their stated goals, and also for biodiversity outcomes within a nation. In order to map evolving inconsistencies between conservation policy and the role of protected areas within it, we develop a conceptual conservation policy framework synthesised from different policy orientations reported in the literature. Using South Africa as a case study, the conceptualisation is used to characterise the policy goals for protected areas in the recently adopted conservation policy, and the pre-existing protected areas system which remains on the statute books. The results indicate that the conceptual conservation policy framework can be used identify misalignment between policy and practice, and has enabled a mismatch to be identified between South Africa's pre-existing protected areas system and its contemporary conservation policy, which suggests that the management of protected areas is likely to significantly change towards greater access and monetisation at the expense of their intrinsic value.

**Keywords** Conservation Policy · Protected Areas · Policy Orientations · Policy Implications · South Africa

## Introduction

There is considerable debate around how we view individuals and societies in relation to nature and specifically in relation to conservation efforts and protected areas (Mace 2014; Colloff et al. 2017; Shume 2017; Kopnina et al. 2018; Sandbrook et al. 2019). These debates have been fuelled over time by, *inter alia*, changes in ecosystem structure driven by for example climate change and anthropogenic activities, changes in the perceived and literal functions and uses of nature, shifts in societal expectations and

recognition of past injustices suffered by local communities in pursuit of conservation objectives, together with changes in the way in which society values and perceives nature (Colloff et al. 2017). Furthermore, there is a growing realisation that current funding models are inadequate to fully achieve conservation goals and outcomes and that there is limited understanding on the full value of conservation areas (Lindsay et al. 2020, Lessa et al. 2021). Mace (2014) illustrated these changes through her typology of conservation framings over time, divided into four eras: “Nature for itself” (pre-1970s); “Nature despite people” (1970’s to late 1990s); “Nature for people” (late 1990s to mid 2000s); and “People and nature” (mid 2000s to present day) (see also Sandbrook et al. 2019). In the “Nature for itself” framing the focus is on the prioritisation of wilderness and intact natural habitats, generally without people. This framing has its scientific underpinnings in wildlife ecology, natural history and theoretical ecology. “Nature despite people” focuses on threats to species and habitats from humans and on strategies to reverse or reduce them. “Nature

---

✉ R. C. Alberts  
Reece.Alberts@nwu.ac.za

<sup>1</sup> Research Unit for Environmental Sciences and Management, North-West University, Potchefstroom, South Africa  
<sup>2</sup> Protected Areas Research Group, North West University, Potchefstroom Campus, Potchefstroom, South Africa  
<sup>3</sup> School of Environmental Sciences, University of East Anglia, Norwich, UK

for people” saw conservation thinking moving away from species and towards ecosystems as a focus for integrated management, with the goal of providing sustainable benefits for people in the form of ecosystem goods and services. The “People and nature” framing highlights a focus on people as part of ecosystems together with a focus on nature’s benefits and ecosystem services. This represents a shift towards greater recognition of the two-way, dynamic relationships between people and nature.

It is the changing worldviews underpinning these fluid debates that manifest in the literature as so-called “framings” or “orientations” (hereafter, “policy orientations”) (Mace 2014; Shume 2017). These orientations will by implication influence the direction of conservation policies and ultimately the objectives which they seek to achieve. The current policy orientation in any one jurisdiction is, therefore, a representation of the underlying guiding societal values at the time of adoption, often irrespective of the practical implications (See Tenbensen 2006).

Protected areas are recognised as being one of the most widespread conservation policy implementation instruments in pursuit of biodiversity protection (Watson et al. 2014). However, in many cases protected areas are historical designations based on societal values prevalent at the time. Of late, the efficacy and purpose of these areas have been questioned, with current debates being waged as to the suitability of protected areas in delivering conservation outcomes as espoused in broader conservation policy that reflects very different societal values. This is particularly evident within the context of the adoption of the Convention on Biological Diversity (CBD) (1992) which has as its objective the conservation of biological diversity and the sustainable use of its components (Convention on Biological Diversity, 1992: 4). The CBD ushered in a new era for protected areas, and how they were perceived to contribute to the growing commitment towards sustainable development (CBD, 1992:1). In keeping with the above, the CBD called for the integration of not only conservation, but also sustainable use, across relevant plans, programmes and policies (Convention on Biological Diversity, 1992: 6). Although recognising the important role played by protected areas in conservation, increasing calls were made for sustainable use and development within and adjacent to these areas, along the flow of ecosystem goods and services to serve society (Convention on Biological Diversity, 1992: 7). This arguably signalled a shift away from the original preservationist objectives of these areas. In response to the creation of policy aligned with the CBD, signatories would have been confronted with the potential mismatch between the historic and original concept of protected areas, and what these areas were now considered to be and to achieve.

In short – protected areas have been the preferred means of conservation long before the broader consideration of shifting societal values (as embedded in the CBD) have

influenced the way we think about and view individuals and society in relation to conservation (Mayda 1969; Mace 2014; Colloff et al. 2017; Kopnina et al. 2018; Sandbrook et al. 2019). That is, emerging conservation policy needs to reflect current societal values and work out how pre-existing networks of protected areas can be integrated into politically-motivated conservation policies. Thus, despite a rich history of over 150 years, mandated and legislated protected area objectives can be misaligned with current societal views on the appropriate policy orientation to follow, or can simply be inconsistent by reflecting multiple policy orientations simultaneously, which jeopardises the achievement of the goals of any of the orientations (Pressey et al. 2015). The implications of such misalignment may result in protected area objectives having to be re-aligned with overarching policy objectives, potentially jeopardising their ability to “protect”. On the other hand, overarching policy objectives may not be fully achieved should protected areas not be re-aligned with the contemporary policy orientations that, politically, tend to follow contemporary societal values.

We recognise that questions about the effectiveness of conservation policy are necessarily value-based and contextual and we do not attempt to address them in this paper. Instead, our aim is to use identified policy orientations as a framework within which the alignment between existing protected areas policies, and contemporary conservation policy in a country can be evaluated. South Africa is used as a case country for three reasons: 1) protected areas date back 130 years; 2) the country has recently drafted its first national conservation policy making it an opportune time to evaluate; 3) from a pragmatic perspective, the authors have expertise related to conservation in the country and access to relevant stakeholders. That is, we aim to develop a tool for identifying misalignment between conservation policy aspirations and management practices given that such misalignment will necessarily preclude achievement of conservation policy objectives (and therefore, by definition, be ineffective).

This aim is broken down into three sequential objectives:

1. To develop a conceptual framework from literature for testing policy orientation alignment of conservation policies.
2. To test the utility of the conceptual framework using south Africa as a case country. This is achieved by analysing the alignment between the country’s existing legislated protected areas objectives against the stated visions for the same protected areas in contemporary conservation policy in South Africa.
3. Determine the possible implications of the findings on South Africa’s existing protected area system.

The developed conceptual framework has broader application as it provides a means of examining whether

policy implementation instruments (i.e., the management of protected areas and other conservation areas) are aligned with current conservation policy orientations in any jurisdictional setting.

The next section sets out the methodological approach for the research. This is followed by Sections 3, 4 and 5, which present the findings for each of the three objectives in turn. Section 6 sets out the conclusions which focus on the utility and wider relevance of the conceptual framework, as well as indicating some broader lessons for policy makers (including those outside South Africa) that have emerged from the analysis.

## Methods

### Developing the Conceptual Framework

The difficulty when considering conservation policy, and specifically protected areas as policy implementation instruments, is not the scarcity of literature, but rather the surfeit of literature related directly or indirectly to the topic. The approach taken was to continue the literature review until theoretical saturation was achieved in line with the thinking of Strauss and Corbin (1998) and Hacking and Guthrie (2008). Keywords used (in various combinations) included ‘protected areas’ AND ‘conservation’ AND ‘policy’ AND ‘implementation’, AND ‘debates’, AND ‘orientations’, AND ‘objectives’ AND ‘dimensions’ AND ‘positions’. We conducted our search through the academic databases: Scopus and Google Scholar up to the end of December 2023. Our research does not attempt to systematically provide a complete overview of all literature related to conservation policy, but rather to identify dominant policy dimensions evident in the conservation discourse. The method used to develop the conceptualisation followed the approach of Jabareen (2009) and involved applying the following steps to the literature:

1. Identifying and naming concepts related to conservation policy;
2. Categorising the concepts;
3. Integrating the concepts; and
4. Synthesis, re-synthesis, and making it all make sense.

### Application of the Conceptual Framework

In pursuit of Objective 2 and using South Africa as a case country, relevant legal text and recently adopted conservation policy text relating to existing protected areas are evaluated against the conceptual framework by means of qualitative analysis adapted from Zhang and Wildemuth

(2009) (see also Macura et al 2019). The use of a single case in the testing of the utility of the conceptual framework is supported by Yin (2012) and Flyvbjerg (2011). In order to test the utility of the framework, firstly, the relevant texts were searched using the keywords “protected area”. This delivered the sections of the documents dealing directly with conservation policy goals involving protected areas, or with the implementation objectives of protected areas. It must be noted that the policy document specifically does create some confusion in that it uses the terms “protected area” and “conservation areas.”<sup>1</sup> Only those provisions which deal specifically and directly with protected areas were indexed and considered for analysis. Secondly, in pursuit of the aim, the texts dealing specifically with protected areas is read, and deductive coding (after Bryman 2016) is used to assign the text to the differing policy orientations as conceptualised in Fig. 2 (with triangulation by means of an expert workshop involving six academics). Text can often be ambiguous, leading to complications for deductive coding. Qualitative content analysis therefore allows the researcher to assign a unit of text, in this case the policy statement, to more than one theme (policy orientations) (See Tesch 1990). Thus, where specific policy text could be assigned to more than one of the policy orientations, all the relevant orientations are indicated as being present.

The results as discussed in Section 4, below, provide for an assessment of the alignment of the reference to protected areas in the new policy document with overarching policy orientations, whilst furthermore allowing for the assessment of the alignment of the existing policy implementation instrument on protected areas, with overarching policy orientations.

### Objective 1: Develop a Conceptual Framework from Literature for Testing Policy Orientation Alignment of Conservation Peerolicies

Based on the theoretical debates and discussion embedded in the literature identified during the literature review, analysis of concepts reveals that there are three underlying spectra which influence conservation policy debate, each

<sup>1</sup> Within this context, two definitions are of importance, namely “protected areas” and “conservation areas”

Protected Areas are defined as: *A Geographically defined area, declared or designated under NEM: PAA, which is designated, regulated and managed to achieve specific conservation objectives.*

Conservation Areas are defined as: *Areas that are not protected areas but are managed in line with conservation principles.* For purposes of this paper, text dealing directly with protected areas was identified and analysed as “conservation areas” are not yet recognised within the legislative framework applicable to protected areas.

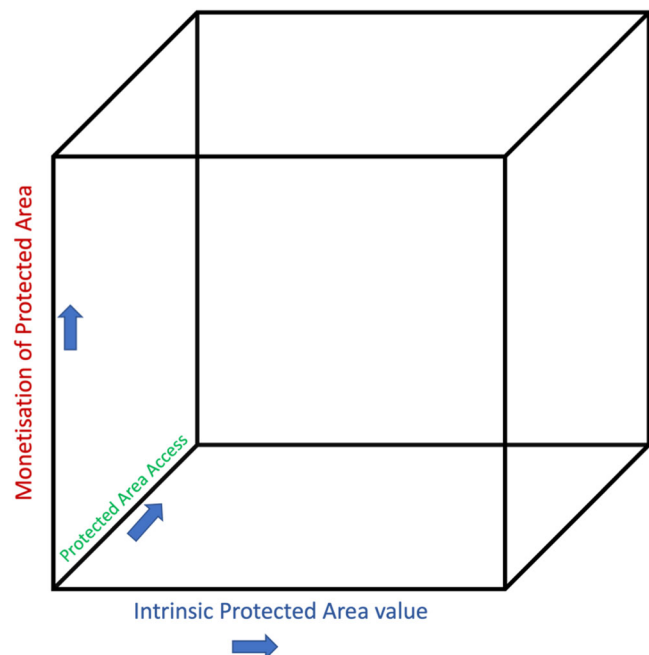
spanning polar opposites. We argue that any considerations of the societal legitimacy of conservation policy influencing protected areas will have to take cognisance of, and deliberate as to, where on the following spectra a particular policy is located. These are namely:

- *The intrinsic value of the protected area:* The traditional divide between anthropocentrism and ecocentrism has long been a central theme within the conservation discourse (Pinchot 1910; Baxter 1974; Taylor 1981; Regan 1983; Wildes 1995; Agar 2001; Singer 2011; Purdy 2013; Shume 2017; Washington et al. 2017; Kopnina et al. 2018). This spectrum underscores the necessity of considering ‘value’ along a continuum that reflects the dynamic interplay between conserving nature for its own sake and for the benefits it provides to humanity (See Fig. 1, x-axis). This intrinsic value debate plays out in the answer to the fundamental question: “Why is this area being protected?” Policy makers will, therefore, have to consider whether protected areas and the components therein are to be conserved for their own sake, in and of themselves, or whether their protection is beholden to a utilitarian value for humans, or some compromise between the two.
- *The level of access to the protected area:* A further central theme in the conservation and specifically protected area discourse relates to access. The spectrum extends from strictly protected areas with little to no human access to resources, through to areas with high levels of access to resources by communities (See Fig. 1, z-axis) (Rolston 1996, 1998; Siurua 2006; Holmes 2007; Coad et al. 2008; Tanner et al. 2010; Mascia and Pailler 2011; Holmes and Cavanagh 2016, Cundill et al. 2017, De Vos et al. 2018). Policymakers face the challenge of having to consider inclusive access while maintaining ecosystem integrity, highlighting potential tensions between limited access and no access and conservation thinking that integrates human wellbeing with ecological preservation.
- *The level of protected area monetisation:* The third theme identified relates to the extent to which markets are used to monetise protected areas, their benefits and the individual components within these areas on a spectrum from no monetisation to full monetisation (See Fig. 1, y-axis) (Stolton et al. 2008, 2015; Fletcher 2010; Brockington et al. 2012; Crist 2015; Holmes et al. 2017; Lessa et al. 2021; Retief et al. 2022). The discourse on monetisation reflects a deeper understanding of how economic incentives can be aligned with conservation goals, leaving policymakers to determine the extent to which protected areas are to be monetised so that they may contribute towards socio-economic development.

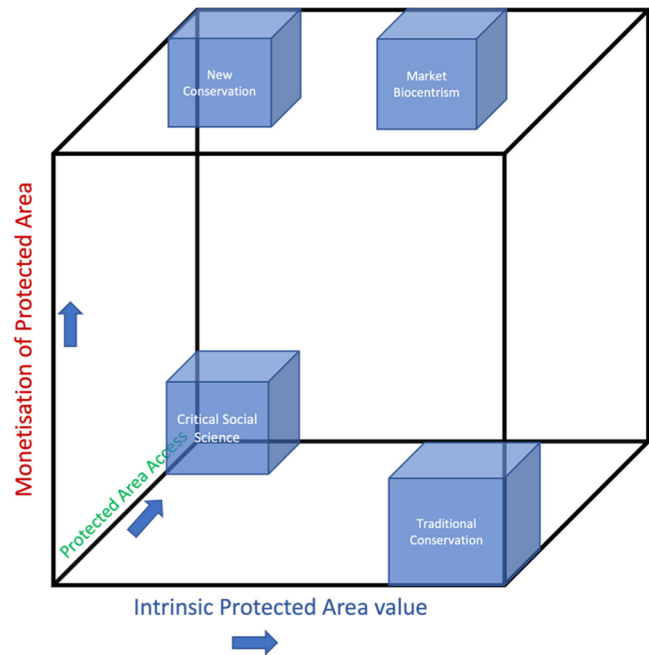
Policy makers are thus inadvertently confronted with these spectra and forced to adopt a position along each. The point of intersection along the relevant spectra of intrinsic value, access, and monetisation, explains the conservation framing of any given policy and provides clues about both the conservation outcomes that might be expected as well as the potential societal legitimacy in a given context. These three spectra are depicted in Fig. 1 below.

To highlight currently advocated conservation world-views within this conceptual framework, the Future of

**Fig. 1** Three axes forming the basis for the conceptual framework



**Fig. 2** A conceptualisation of conservation policy orientations along the spectra of intrinsic value, monetisation and access



Conservation (FoC) survey (Future of Conservation, 2022), ostensibly driven by Sandbrook et al. (2019), which identifies four main orientations for conservation policy worldwide, was used as the benchmark for globally advocated policy orientations.

The four FoC orientations are summarised below and then placed in the conceptual framework, in Fig. 2, to illustrate their relative positioning on the three axes.

### Traditional Conservation

Traditional Conservation tends towards ecocentrism and aligns with Shume's (2017) categorisation of 'us in nature' or what Mace (2014) refers to as 'nature for itself' and 'nature despite people'. It is, furthermore, characterised by high intrinsic value of protected areas, low regard for the monetisation of these areas, with limited or no access to protected areas. This policy orientation may be seen as idealistic, claiming that policy should be evaluated with a particular vision of "how things should be", whilst ascribing to holistic views which are grounded in the belief that protected areas are not simply a collection of parts, but rather complex wholes from which emergent properties arise when the parts interact (Shume 2017).

Key concepts and themes underlying this orientation against which policy may be analysed are listed in Box 1.

### New Conservation

New conservation aligns with Mace's (2014) framings of 'nature for people' and 'people and nature', as well as what Shume (2017) refers to as 'technocentrism' (us over

#### Box 1 The Characteristics of the Traditional Conservation Orientation

Intrinsic value • low monetisation • no/restricted access • holistic approaches to PA management • idealism • species focus • importance of wilderness as a concept • strong reliance on traditional protected areas for conservation • intrinsic value of protected areas is evident.

Source: Roe 2008; Kariva and Marvier 2012; Soulé 2013; Doak et al. 2014; Mace 2014; Wuerthner et al. 2015; Holmes et al. 2017; McKenzie 2017; Shume 2017; Kopnina et al. 2018; Bhola et al. 2021

nature). In essence a technocentric policy orientation states that humans hold the power and responsibility to manage protected areas to ensure sufficient natural resources from such areas are produced and conserved to meet current and future socio-economic demands (Shume 2017). This orientation is characterised by adopting an instrumental value for protected areas, relying heavily on protected area monetisation and by pursuing access to resources.

This policy orientation may be critiqued for adopting an unexamined optimism that science, markets, and engineering will generate solutions to control and propagate resources from and around protected areas sufficiently so as to meet ever increasing socio-economic demands. Our literature review records the earliest discussion of this 'new conservation' policy orientation as 1965 (Johnson 1965; O'Callaghan 1967; Mayda 1969).

Key concepts and themes underlying this orientation against which policy may be analysed are listed in Box 2.

**Box 2** The Characteristics of the New Conservation Orientation

High monetisation of protected areas • high access to resources in protected areas • pragmatic management views • reductionist views of protected areas • protected areas are valued for their instrumental value • win-win philosophy whereby protected areas can conserve nature and benefit socio economic aspirations • emphasis on community based natural resource management • sustainable use is a favoured concept, growth and investment of infrastructure within and around protected areas • economic value of protected areas is highlighted • increased focus on ecosystem services • reliance on resource and environmental economics.

Source: Johnson 1965; O'Callaghan 1967; Mayda 1969; Hulme and Murphee 1999; Brown 2003; Hall and Frost 2009; Miller et al. 2011; Minter and Miller 2011; Karieva and Marvier 2012; Marvier 2012, 2014; Soulé 2013, 2014; Mace 2014; Petriello and Wallen 2015; Batavia and Nelson 2017; Holmes et al. 2017. Shume 2017; Kopnina et al. 2018

**Box 3** The Characteristics of the Critical Social Science Orientation

Instrumental Value of protected areas is highlighted • low reliance on monetisation of protected areas • high access to resources within protected areas • a reductionist view of protected areas, an overly pragmatic approach to protected area management • a highly anthropocentric view of protected areas • sharp focus on the negative impacts of protected areas on the wellbeing of vulnerable and previously disadvantaged groups • sceptical views of markets and business • increased focus on past redress of impacts from protected area establishment and management • humans vs protected areas narrative is central • a win/lose dichotomy is argued, namely either people or protected areas stand to benefit, not both • people vs parks is a central theme • the pursuit and fulfilment of human needs is paramount • increased critique of protected areas as causing negative side effects on humans • protected areas should primarily improve human wellbeing • traditional protected areas are provenance of the elite neo liberal classes • favourable of a neo Marxist world view • critical of what is considered to be neo-protectionism.

Source: Mace 2014; Brockington and Wilkie 2015; Butler 2015; Crist 2015; Holmes et al. 2017; Holmes and Cavanagh 2016; Shume 2017; Kopnina et al. 2018.

**Critical Social Science**

In the 'critical social science' orientation the impacts of conservation on human well-being should be at the forefront of the conservation debate. This entails being critical of conservation activities that can have negative effects on people, such as creating protected areas that explicitly exclude access. It is also critical of a 'nature-for-nature's sake' rationale for conservation and the use of natural science within conservation, rather aligning with the 'nature for people' framing (Mace 2014). This policy orientation aligns with what Shume (2017) calls 'egocentrism' or 'us versus nature' (see also Herman et al. 2015) and embraces a win/lose dichotomy, where protected areas are seen as being a means to fulfilment of human needs and wants which are prioritised over all other considerations. Critical social science scholars claim that protected areas as traditionally conceived are a pastime of the 'elites', seeing it as a colonialist residue of Western imperialism (Butler 2015). 'Critical social science' orientations are arguably grounded in a neo-Marxist world view which pursues the dominance of nature towards the benefit of humankind alone (Holmes and Cavanagh 2016; Kopnina et al. 2018). These narratives are underscored by the overall goal of improving human well-being, with the needs of humans prioritised.

Key concepts and themes underlying this orientation against which policy may be analysed are listed in Box 3.

**Market Biocentrism**

Literature dealing with market ecocentrism is scant and some contend that the term market ecocentrism is an oxymoron, in that it attempts to merge the concepts of biocentrism with those of neoliberalism in an effort to pursue "ecologically enlightened self-interest" (Kopnina et al. 2018). The FoC survey (Future of Conservation 2022) cites

one example of market ecocentrism, namely the recent Nature Needs Half movement (as well as the closely related Half-Earth movement) (Wilson 2016).

Market biocentrism is more difficult to characterise. Policy aligned with this orientation will recognise both the intrinsic and instrumental value of protected areas. It will pursue high degrees of monetisation which may be leveraged to further conserve protected areas. This will by implication necessitate high levels of access to resources in certain areas. It intertwines intrinsic value with market-based approaches and relies on markets to conserve protected areas. The central premise of this orientation is that ecological systems will prove to be resilient if key thresholds are not exceeded. The focus is thus not on policy towards human optimisation, but rather the pursuit of natural resilience.

Key concepts and themes underlying this orientation against which policy may be analysed are listed in Box 4.

### **Objective 2: To Test the Utility of the Conceptual Framework by Analysing the Alignment between the Country's Existing Legislated Protected Areas Policy Against the Stated Visions for the Same Protected Areas in Contemporary Conservation Policy in South Africa**

South Africa's protected areas system dates to the turn of the 19th century, with the proclamation of the first (colonial) protected area in Africa in 1894: the Pongola Nature Reserve. In 1926, the national government established the

**Box 4** The Characteristics of the Market Biocentrism Orientation

Tolerant of intrinsic and instrumental value views in relation to protected areas • high monetisation of certain protected areas in favour of conserving others • high access to resources within certain protected areas in order to conserve others • a more holistic view of protected areas • a reasonable degree of pragmatism with regard to protected area management • intertwines intrinsic value with markets based approaches • strong reliance on markets and capital to conserve protected areas • underlying belief that systems are resilient if key thresholds are not exceeded • management is not focused on human wellbeing and optimisation but rather nature's resilience.

Source: Wilson 2016; Kopnina et al. 2018; Future of Conservation 2022.

National Parks Board through the National Parks Act which together with numerous provincial ordinances saw the formation of different types of protected areas across the country, including, national parks, provincial parks, municipal reserves, and private nature reserves (Goosen and Blackmore 2019). Legislation regulating protected areas was adopted and the current protected areas system is centred around the National Environmental Management Protected Areas Act (NEMPAA) (RSA 2003) together with related and ancillary legislation at the national and provincial level. The NEMPAA makes provision for the declaration of different types of protected area, cascading from strictly protected to least protected (see Table 1). It sets out the objectives of protected areas (see also Supplementary Table 1). To date, South Africa has 1506 protected areas spanning the range of different types afforded by the NEMPAA, comprising approximately 9.9% of its terrestrial area, and 41 marine protected areas comprising 5% of the coastal and marine areas around its coast.

The legislated purpose and objectives of special nature reserves, national parks, nature reserves, wilderness areas and protected environments, as currently contained within legislation, were analysed against the conceptual framework as set out in Section 2.2 above. For the purposes of this research, marine protected areas were not considered in the analysis given the unique contextual factors differentiating them from terrestrial protected areas. The result of the analyses of the existing protected areas as policy implementation instruments against policy orientations are summarised in Table 1 (with a more detailed breakdown of specific paragraph coding set out in Supplementary Table 1).

It is evident from the above analyses, that the overall orientation of the existing protected areas in the country, is predominantly traditional conservation focused (see Fig. 3 below). The only exception being protected environments, which incorporate to a greater extent objectives aligned with the new conservation orientation (Fig. 3). Although certain objectives of the analysed protected areas align with the new conservation orientation it cannot be said to be the

**Table 1** Analysis of existing protected areas against policy orientations

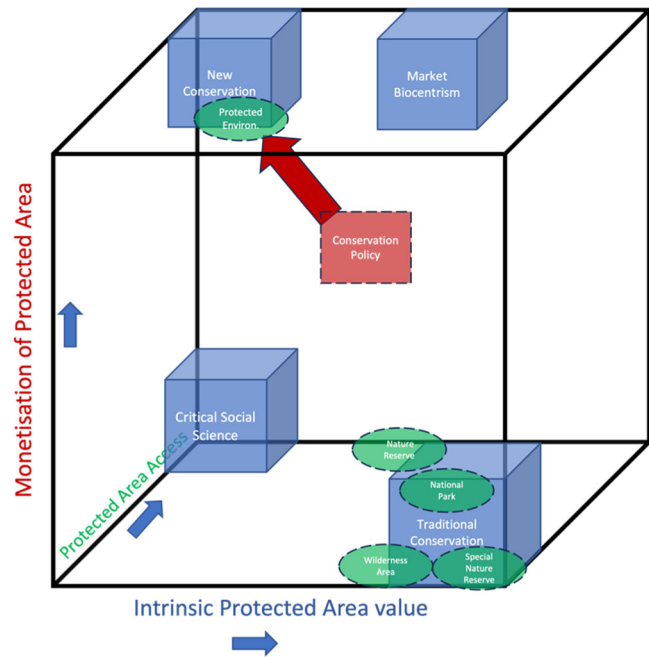
| Types of Protected Areas as set out in the National Environmental Management Protected Areas Act 57 of 2003 | Policy Orientations Identified in Legislated Objectives            |
|---|--|
| General purpose of protected areas Section 17   | Traditional Conservation<br>New conservation<br>Market Biocentrism |
| Special Nature Reserves Section 18(2)   | Traditional Conservation   |
| National Parks Section 20(2)  | Traditional Conservation<br>New conservation                       |
| National Park Wilderness Area Section 22(2)   | Traditional Conservation   |
| Nature Reserves Section 23(2)   | Traditional Conservation<br>New conservation                       |
| Nature Reserve Wilderness Areas Section 26(2)   | Traditional Conservation   |
| Protected Environment Section 28(2)   | Traditional Conservation<br>New conservation                       |

overarching orientation in respect of the countries existing protected areas.

South Africa acceded to the CBD in November 1995 and subsequently mandated a new protected areas system within the country founded on a draft policy on Biodiversity and Conservation published in 1997 (RSA 1997). This remained an unpublished draft until a new draft policy on the Conservation and Sustainable Use of South Africa's Biodiversity was published for comment on July 8th 2022 (RSA 2022) in an attempt to finally formalise conservation and biodiversity policy. The first draft was subsequently superseded by a second draft of the policy published for comment on October 28th 2022, with the final policy being adopted on 14 June 2023 as the "White Paper on the Conservation and Sustainable Use of South Africa's Biodiversity" (hereafter the White Paper) (RSA 2023).

The newly adopted White Paper is an overarching policy that is aimed at addressing, *inter alia*, the lack of consensus among stakeholders on how to pursue conservation (RSA 2023: 5). The White Paper at face value espouses new conservation thinking, given that at a strategic level the policy aims to achieve policy certainty and a strong policy base for biodiversity conservation, whilst identifying protected areas "*as mechanisms to contribute strongly to ecologically sustainable rural development*" (RSA 2023:5). The above is contextualised against the vision of the newly adopted White Paper which reads as follows: "*A society living in harmony with nature, where biodiversity conservation and sustainable use is transformed, ensuring improved benefits from healthy ecosystems, that are fairly and equitably shared*" (RSA 2023:5). The policy sets out four goals (see Box 5), each with unique objectives, expected outputs and expected outcomes.

**Fig. 3** Policy tensions between new direction and current instruments



**Box 5:** Four Policy Goals

- Goal 1:** Enhanced biodiversity conservation
- Goal 2:** Sustainable use
- Goal 3:** Equitable access and benefit sharing
- Goal 4:** Transformed biodiversity conservation and sustainable use

The four goals together with their unique objectives, expected outputs and expected outcomes were analysed using the method set out under Section 2.2 above. The results in the form of the analysed text of the White Paper together with the assigned policy orientations are illustrated in Table 2 and Fig. 3 (Supplementary Table 2 provides a more detailed breakdown of the coding of specific paragraphs of the White Paper against the four policy orientations).

The incorporation of, and orientation towards, new conservation thinking in South Africa's new conservation policy in relation to protected areas is to be expected as it is an increasingly popular orientation among academics and policymakers, which dovetails with tactical shifts in the mission statements of many conservation organisations (Doak et al. 2014). This highlights what Terborgh and Peres (2017) describe as arguably a central challenge faced by conservationists, namely the clarification of the distinction between ecosystem services and biodiversity protection in the public mind, as it is becoming increasingly evident that conservation is operating in what Chapron and Lopez-Bao (2019) describe as an ethical frame whereby wild plant and animal species must first and foremost benefit human communities, and by implication become unacceptable if they impose a burden on people. The economic focus of

new conservation may serve as the main objection of those wary or sceptical of this orientation, that is, stakeholders that align with other policy orientations.

The shift towards new conservation thinking for protected areas at the policy level, dictates a move away from the traditional policy orientation in which the majority of South Africa's protected areas are rooted, namely that of traditional conservation (See Fig. 3). Already there have been calls for South Africa's protected areas to reimagine their roles and to adapt beyond non-consumptive wildlife uses (Clements et al. 2022 see also Coetzee et al. 2022). The existing and historic legal (and arguably policy) framework within which these protected areas are established and function, is seen as a constraint, together with the public perception and values surrounding these areas. It is contended that the current state of protected areas is economically unsustainable and that these areas are expensive and should thus only represent a "small fraction" of the national conservation estate (Clements et al. 2022). This highlights a key risk facing South Africa's protected area system as identified by Alberts et al. (2022), namely the manner in which we value protected areas and the expectations for these areas to "pay their way."

The inclusion of 'conservation areas' within the White Paper further highlights the shift towards new conservation at a policy level. These areas are recognised as being similar to protected areas in terms of conservation objectives, however, they are not hindered by the numerous legislative restrictions placed on *inter alia* developments, access and multiple land use as is the case with formal protected areas (IUCN 2019). This inclusion aligns with the strategic direction of the CBD (1992), specifically the Kummung-



**Table 2** Analysis of relevant White Paper provisions against the policy orientations

| Protected Areas Relevant Policy Goals   | Protected Areas Relevant Policy Objective   | Policy Orientation  |
|---|---|---|
| Goal 1: Enhanced biodiversity conservation: All biological diversity and its components conserved.  | 1.1 Expand a representative system of protected and conservation areas that are effectively and efficiently managed<br>1.2 Better integrate conservation areas into broader ecological and social land- and seascapes   | Traditional Conservation<br>New Conservation                    |
| Goal 4: Transformed biodiversity conservation and sustainable use: Effect is given to the environmental right as contained in Section 24 of the Constitution which facilitates redress and promotes transformation. | 4.2 Position protected and conservation areas as catalysts of inclusive socio-economic development.<br>4.4 Promote participation and influence of designated groups (PDIs, youth, women and people with disabilities) in biodiversity conservation and sustainable use. | New Conservation<br>New Conservation<br>Critical Social Science |

Montreal Global Biodiversity Framework (Convention on Biological Diversity 2022) (GBF), which places an increased emphasis on effective area-based conservation measures and conservation outside of formally protected areas in pursuit of sustainable development and specifically nature's contribution to people (Convention on Biological Diversity 2022: 1).

The implications for South Africa's protected area to deliver on socio-economic development objectives are that these expectations will trickle down into protected area management plans with resultant repercussions. This may create potential uncertainty as to the purpose and objectives of the protected areas, which have been established with different objectives and are now being expected to reinvent themselves to deliver on others. Core questions which could arise include "What is the primary aim or objective of protected areas?", sparking once again the debate around the divergent views of conservation and placing the country back at the very root of the problem which the new policy wishes to address.

### Objective 3: Possible Implications for Existing Protected Areas

It is evident from the above discussion that South Africa's conservation policy affecting protected areas, although broadly new conservation focused, embodies and incorporates thinking aligned with all the four orientations. This suggests the potential for what Smith (1973) refers to as policy tensions created between the newly adopted 'new conservation' orientation and the policy implementation instruments, namely protected areas, which are predominantly aligned with traditional conservation. The implications of this should not be overlooked, especially against the statement in the White Paper that its aim is to provide "*policy certainty and a stable base for conservation, growth and sustainable development*" (RSA 2023: 26). The fact that all four orientations are embodied in the policy to a greater or lesser extent, however, serves to potentially create policy uncertainty and incoherence, hampering implementation. This is especially true when multi-directional "ambitious" and "sweeping" policy is drafted in the developing country context (Smith 1973). Within the context of South Africa, the new policy direction invokes a marked shift away from the traditional orientation. The result being that the current protected areas, largely founded and managed on the traditional conservation orientation and objectives, are expected to deliver on outcomes aligned with new conservation thinking. This tension is illustrated in Fig. 3 below. It is, thus, to be expected that in order to align with the new conservation policy orientation, existing protected areas will have to shift their current objectives away from

those centred on traditional conservation. The inevitable result being a marked change in the manner in which these areas are managed in relation to aspects such as access, monetisation and use of resources.

Since the inception of the White Paper, several legislative developments in pursuit of the new conservation orientation have been effected in South Africa. Two developments in particular highlight this, namely the published draft National Biodiversity Economy Strategy (NBES) (RSA 2024b) and the draft notice calling for the exclusion of Environmental Impact Assessment (EIA) for development in the country's iconic Kruger National Park (RSA 2024a; Patterson et al. 2024). The NBES was developed to optimise biodiversity-based business potentials within South Africa and to contribute to *inter alia* economic growth, poverty alleviation, local beneficiation and food security whilst purportedly maintaining ecological integrity of the biodiversity resource base (RSA 2024b: 6). The strategy has been developed to respond specifically to the White Paper, and acknowledges that it is explicitly about sustainable use (RSA 2024b: 6) in pursuit of delivering on the goals of the White Paper on the Conservation and Sustainable Use of South Africa's Biodiversity.

The exclusion of EIA from the Kruger National Park is potentially another indicator of government's pursuit of the new conservation orientation. Although not clear as to why EIA should not be utilised for developments in the park (Groundup 2024), it is easily argued that the instrument may be seen as a barrier to development within the protected area, and thus a hindrance to the achievement of the NBES, which calls for an expansion of ecotourism in the country's protected areas and, specifically, in Kruger (see particularly Goal 1 in the NBES) (RSA 2024b).

Given the adoption of the new policy, it is expected that the NEMPAA will be amended, with specific focus on the objectives of protected areas (Mokgohloa 2023). Such amendments will no doubt be brought about to align the act, and specifically protected area objectives, with the overarching new conservation orientation as set put in the overarching policy.

Given the above developments, and the fact that the policy orientation is clearly aligned with new conservation thinking, the resultant implications on South Africa's existing protected areas of the policy shift as demonstrated by the conceptual framework, will possibly be:

- *Increased Monetisation*: Increased resistance to sustaining protected areas that fail to meet the economic expectations as espoused by the 'new conservation' orientation (See Clements et al. 2022). This could lead to defunding and de-proclamation of formal protected areas in pursuit of an increased focus on areas and landscapes and species most useful to humans in the

form of socio-economic benefits (See Mascia and Pailler 2011, Qin et al. 2019). Arguably, it is protected area protected downgrading, downsizing, and degazettement (PADDD) as a result of socio-economic pursuits in lieu of conservation benefits which may threaten protected areas in southern Africa more specifically (See specifically Alberts et al. 2022 and Blackmore 2022).

- *Increased Access*: Increased support and pressure for development and land uses within, and adjacent to, protected areas that promote socio-economic development, but which are incompatible with historic traditional conservation objectives (See De La Fuente et al. 2020; Calderón et al. 2022 and Cilliers et al. 2024). Furthermore, adjacent communities will increasingly expect tangible benefits from protected areas through *inter alia* access to these areas and the resources therein.
- *Increased emphasis on utilitarian value*: Increased reliance on protected areas to provide resources or overall ecosystem services, potentially at the expense of species conservation. This could lead to an uncertain future for specific species and areas that do not offer tangible socio-economic benefits or demonstrable ecosystem services to society (Hauptfleisch et al. 2024).

## Conclusions

In this paper we have developed a conceptual framework that distinguishes the different prevailing conservation policy orientations. Its ability to separate these orientations has been illustrated through their relative positioning with the framework based on three axes encompassing spectra related to monetisation, intrinsic value, and access. When applied to the case of South Africa, the framework suggests a mismatch between the policy orientations of the existing protected areas mandate, and the foreseen goals of protected areas in the new conservation White Paper as arguably influenced by the CBD and the contemporary conservation discourse and thinking. Indeed, it is possible to establish a direction of travel which seems to suggest that the overarching policy direction is towards new conservation. Recent legislative developments in support of the White Paper support this. Although it is not appropriate for the researchers to judge which policy orientation should be followed, we have discussed the possible implications for the country's system of protected areas. We recognise also that the identified implications will have differing operational implementation across the different types of protected areas. These operational implications may form the basis for future research. That being said, the mismatch in orientation between the overarching policy and the protected area system is illustrated. We suggest that the developed framework has potential for application to any conservation policies and can potentially act as a test as to the level of

alignment between policy and policy implantation instruments.

**Supplementary information** The online version contains supplementary material available at <https://doi.org/10.1007/s00267-024-02051-8>.

**Author Contributions** R.C.A. conceived and authored manuscript. F.P.R conceived and authored manuscript. A.J.B. authored, edited and provided conceptual guidance. C.R. authored and edited manuscript. D.P.C. authored and edited manuscript.

**Funding** Open access funding provided by North-West University.

## Compliance with Ethical Standards

**Conflict of Interest** The authors declare no competing interests.

**Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

## References

- Alberts R, Retief F, Roos C, Cilliers D, Lubbe W (2022) Identifying key risks to the achievement of protected area system objectives. *Nat Conserv* 49:53–75
- Agar N (2001) *Life's intrinsic value: Science, ethics, and nature*. Columbia University Press.
- Baxter WF (1974) *People or Penguins: The Case for Optimal Pollution*. Columbia University Press, New York
- Batavia C, Nelson MP (2017) For goodness sake! What is intrinsic value and why should we care? *Biol Conserv* 209:366–376
- Bhola N, Klimmek H, Kingston N, Burgess ND, van Soesbergen A, Corrigan C, Harrison J, Kok MT (2021) Perspectives on area-based conservation and its meaning for future biodiversity policy. *Conserv Biol* 35(1):168–178
- Blackmore A (2022) To be or not to be a protected area: A perverse political threat. *Bothalia* 52(1). <https://doi.org/10.38201/btha.abc.v52.i1.4>
- Brockington D, Wilkie D (2015) Protected areas and poverty. *Philos Trans R Soc B: Biol Sci* 370(1681):20140271
- Brockington D, Duffy R, Igoe J (2012) *Nature unbound: conservation, capitalism and the future of protected areas*. Routledge.
- Brown K (2003) Three challenges for a real people-centred conservation. *GEB* 12(2):89–92
- Bryman A (2016) *Social Research Methods*. Oxford University Press, Oxford
- Butler T (2015) Introduction: Protected Areas and the Long Arc Toward Justice. *Protecting the Wild: Parks and Wilderness*, The Foundation for Conservation, xix–xx.
- Calderón MM, Ávila EB, Chaves AL, Jiménez EC, Lozano CB (2022) Anthropization in buffer zones of protected areas. *Ann Tour Res Empir Insights* 3:100072. <https://doi.org/10.1016/j.annale.2022.100072>
- Casetta E (2020) Making sense of nature conservation after the end of nature. *Hist Philos Life Sci* 42(2):1–23. <https://doi.org/10.1007/s40656-020-00330-6>
- Cilliers DP, Retief F, Patterson A, Alberts R, Roos C (2024) A critical evaluation of the extent to which spatial planning integrate national park buffer zones within the context of territorial governance and spatial transformation. In: Du Plessis D (ed) *Territorial governance and spatial transformation in post-apartheid South Africa*.
- Chapron G, López-Bao JV (2019) Trophy hunting: Role of consequentialism. *Science* 366(6464):432. <https://doi.org/10.1126/science.aaz3897>
- Clements HS, Child MF, Lindeque L, Lunderstedt K, De Vos A (2022) Lessons from COVID-19 for wildlife ranching in a changing world. *Nat Sustain* 5:1–9. <https://doi.org/10.1038/s41893-022-00860-1>
- Coad L, Campbell A, Miles L, Humphries K (2008) The costs and benefits of protected areas for local livelihoods: a review of the current literature. UNEP World Conserv Monit Cent, Cambridge, UK
- Coetzee BWT, Ferreira SM, Smit IPJ (2022) Reimagining the wilderness ethic to include “people and nature”. *Biodivers Conserv* 31(11):2893–2898. <https://doi.org/10.1007/s10531-022-02444-6>
- Colloff MJ, Lavorel S, van Kerkhoff LE, Wyborn CA, Fazey I, Gordard R, Mace GM, Foden WB, Dunlop M, Prentice IC, Crowley J (2017) Transforming conservation science and practice for a postnormal world. *Conserv Biol* 31(5):1008–1017. <https://doi.org/10.1111/cobi.12912>
- Convention on Biological Diversity (1992) <https://www.cbd.int/convention/text>
- Convention on Biological Diversity (2022) Kunming-Montreal Global Biodiversity Framework. <https://www.cbd.int/article/cop15-final-text-kunming-montreal-gbf-221222>
- Crist E (2015) I walk in the world to love it. In: *Protecting the wild: Parks and wilderness, the foundation for conservation*. Butler T, Wuerthner G, Crist E (eds) pp.82–95.
- Cundill G, Bezerra JC, De Vos A, Ntingana N (2017) Beyond benefit sharing: Place attachment and the importance of access to protected areas for surrounding communities. *Ecosyst Serv* 28:140–148. <https://doi.org/10.1016/j.ecoser.2017.02.021>
- De la Fuente B, Bertzky B, Giacomo D, Mandrici A, Conti M, Florczyk AJ, Freire S, Schiavina M, Bastin L, Dubois G (2020) Built-up areas within and around protected areas: Global patterns and 40-year trends. *Glob Ecol Conserv* 24. <https://doi.org/10.1016/j.gecco.2020.e01291>
- De Vos A, Joana CB, Roux D (2018) Relational values about nature in protected area research. *Curr Opin Environ Sustain* 35:89–99. <https://doi.org/10.1016/j.cosust.2018.10.017>
- Doak DF, Bakker VJ, Goldstein BE, Hale B (2014) What is the future of conservation? *Trends Ecol Evol* 29(2):77–81. <https://doi.org/10.1016/j.tree.2013.10.013>
- Dudley N (ed) (2008) *Guidelines for applying protected area management categories*. IUCN, Gland, Switzerland, 10.2305/IUCN.CH.2008.PAPS.2.en
- Fletcher R (2010) Neoliberal environmentalism: towards a post-structuralist political ecology of the conservation debate. *Conserv Soc* 8(3):171–181. <https://doi.org/10.4103/0972-4923.73806>
- Flyvbjerg B (2011) *Case study*. Sage Handb qualitative Res 4:301–316
- Future of Conservation (2022) <https://www.futureconservation.org/about-the-debate>
- Goosen M, Blackmore A (2019) Hitchhikers' guide to the legal context of protected area management plans in South Africa. *Bothalia* 49(1). <https://doi.org/10.4102/abc.v49i1.2362>
- Groundup (2024) <https://groundup.org.za/article/environmental-sa-guards-for-kruger-national-park-at-risk/>

- Hacking T, Guthrie P (2008) A framework for clarifying the meaning of Triple Bottom-Line, Integrated, and Sustainability Assessment. *Environ Impact Assess Rev* 28(2-3):73–89. <https://doi.org/10.1016/j.eiar.2007.03.002>
- Hall CM, Frost W (2009) The future of the national park concept. In: Hall CM, Frost W eds *Tourism and national parks: International perspectives on development, histories, and change*. Routledge, 301–321
- Hauptfleisch M, et al. (2024) Exploring the implications of elephant movements between land-use types in a semi-arid savanna landscape. *Pachyderm*. Under review.
- Herman BC, Newton M, Zeidler D (2015) Impact of experiential environmental socioscientific issues instruction on postsecondary students' conceptions of environmental issues in the Greater Yellowstone ecosystem. Paper presented at the Association for Science Teacher Education Conference, Portland, OR
- Holmes G (2007) Protection, politics and protest: understanding resistance to conservation. *Conserv Soc* 5(2):184–201. <https://doi.org/10.4103/0972-4923.49207>
- Holmes G, Cavanagh CJ (2016) A review of the social impacts of neoliberal conservation: Formations, inequalities, contestations. *Geoforum* 75:199–209. <https://doi.org/10.1016/j.geoforum.2016.07.014>
- Holmes G, Sandbrook C, Fisher JA (2017) Understanding conservationists' perspectives on the new-conservation debate. *Conserv Biol* 31(2):353–363. <https://doi.org/10.1111/cobi.12811>
- Hulme D, Murphree M (1999) Communities, wildlife and the 'new conservation' in Africa. *J Int Dev* 11(2):277–285.
- IUCN (2019) Recognising and reporting other effective area-based conservation measures. IUCN, Gland, Switzerland, <https://portals.iucn.org/library/node/48762>
- Jabareen Y (2009) Building a conceptual framework: philosophy, definitions, and procedure. *Int J Qual Methods* 8(4):49–62. <https://doi.org/10.1177/160940690900800406>
- Johnson L (1965) Special message to the Congress on conservation and restoration of natural beauty. *Public Pap Presidents U S* 1:155–165
- Kareiva P, Marvier M (2012) What is conservation science?? *BioScience* 62(11):962–969. <https://doi.org/10.1525/bio.2012.62.11.5>
- Karp DS, Mendenhall CD, Callaway E, Frishkoff LO, Kareiva PM, Ehrlich PR, Daily GC (2015) Confronting and resolving competing values behind conservation objectives. *Proc Natl Acad Sci USA* 112(35):11132–11137. <https://doi.org/10.1073/pnas.1503712112>
- Kopnina H, Washington H, Gray J, Taylor B (2018) The 'future of conservation' debate: Defending ecocentrism and the Nature Needs Half movement. *Biol Conserv* 217:140–148. <https://doi.org/10.1016/j.biocon.2017.10.016>
- Lessa T et al. (2021) Revealing the hidden value of protected areas. *Land Use Policy* 111:105733. <https://doi.org/10.1016/j.landusepol.2021.105733>
- Lindsey P, Allan J, Brehony P, Dickman A, Robson A, Begg C, Bhammar H, Blanken L, Breuer T, Fitzgerald K, Flyman M (2020) Conserving Africa's wildlife and wildlands through the COVID-19 crisis and beyond. *Nat Ecol evolution* 4(10):1300–1310
- Linnell JD, Kaczensky P, Wotschikowsky U, Lescureux N, Boitani L (2015) Framing the relationship between people and nature in the context of European conservation. *Conserv Biol* 29(4):978–985. <https://doi.org/10.1111/cobi.12534>
- Mace GM (2014) Whose conservation? *Science* 345(6204):1558–1560. <https://doi.org/10.1126/science.1254704>
- MacKenzie JM (2017) The empire of nature: Hunting, conservation and British imperialism. In: *The Empire of Nature*. Manchester University Press. <https://doi.org/10.7765/9781526123664>
- Macura B et al. (2019) Systematic reviews of qualitative evidence for environmental policy and management: an overview of different methodological options. *Methodol* 8:24. <https://doi.org/10.1186/s12874-019-0684-5>
- Marvier M (2012) The value of nature revisited. *Front Ecol Environ* 10:227. <https://doi.org/10.1890/1540-9295-10.5.227>
- Marvier M (2014) New conservation is true conservation. *Conserv Biol* 28:1–3. <https://doi.org/10.1111/cobi.12206>
- Mascia MB, Pailler S (2011) Protected area downgrading, downsizing, and degazettement (PADDD) and its conservation implications. *Conserv Lett* 4:9–20. <https://doi.org/10.1111/j.1755-263X.2010.00147.x>
- Mayda J (1969) Conservation, New Conservation and Ecomanagement. *Wis L Rev*:788.
- Miller TR, Minter BA, Malan LC (2011) The new conservation debate: the view from practical ethics. *Biol Conserv* 144:948–957. <https://doi.org/10.1016/j.biocon.2010.04.001>
- Minter BA, Miller TR (2011) The new conservation debate: ethical foundations, strategic trade-offs, and policy opportunities. *Biol Conserv* 144:945–947. <https://doi.org/10.1016/j.biocon.2010.10.028>
- Mokgohloa F (2023) Kummung-Montreal Global Biodiversity Framework: National Targets. The Conservation Symposium, Wild Coast Sun, South Africa, 5-10 November 2023.
- O'Callaghan JA (1967) The Mining Law and Multiple Use. *Nat Resour J* 7:242
- Patterson A, Alberts RC, Summers R, Retief FP, Blackmore A (2024) The merit of streamlining the regulation of activities in the Kruger National Park through the use of Environmental Management Instruments and Environmental Impact Assessment exclusions. *South Afr Public Law J*. Under Review.
- Petriello MA, Wallen KE (2015) Integrative reflections on the new conservation science debate. *Biodivers Conserv* 24:1549–1551. <https://doi.org/10.1007/s10531-015-0938-8>
- Pinchot G (1910) *The fight for conservation*. Doubleday, Page.
- Pressey RL, Visconti P, Ferraro PJ (2015) Making parks make a difference: poor alignment of policy, planning and management with protected-area impact, and ways forward. *Philos Trans R Soc B* 370:20140280. <https://doi.org/10.1098/rstb.2014.0280>
- Purdy J (2013) Our place in the world: A new relationship for environmental ethics and law. *Duke Law J* 62:857–932
- Qin S, Golden Kroner RE, Cook C, Tesfaw AT, Bray-brook R, Rodriguez C, Poelking C, Mascia MB (2019) Protected area downgrading, downsizing, and de-gazettement as a threat to iconic protected areas. *Conserv Biol* 33(6):1275–1285. <https://doi.org/10.1111/cobi.13365>
- Regan T (1983) *The Case for Animal Rights*. Routledge and Kegan Paul, London, UK
- RSA 1997. White Paper on the Conservation and Sustainable Use of South Africa's Biological Resources notice 1095 in *Government Gazette* 18163 of 28 July 1997
- RSA 2003. National Environmental Management Protected Areas Act 57 of 2003
- RSA 2022. Draft White Paper on Conservation and Sustainable Use of South Africa's Biodiversity 2022 Government Notice 2252 in *Government Gazette* No. 46687 of 8 July 2022.
- RSA 2023. White Paper on Conservation and Sustainable Use of South Africa's Biodiversity Government Notice 3537 in *Government Gazette* No. 48785 of 14 June 2023
- RSA 2024a. Notice of the intention to adopt environmental management instruments for the purpose of excluding in terms of section 24(2) (c) and (e) of the National Environmental Management Act, 1998 (Act no. 107 of 1998), identified activities from the requirement to obtain environmental authorisation Government Notice 4386 in *Government Gazette* 50138 of 16 February 2024.
- RSA 2024b. National Environmental Management Biodiversity Act Draft National Biodiversity Economy Strategy Government Notice 4492 in *government Gazette* 50279 of 8 March 2024.
- Retief FP, Alberts RC, Roos C, Cilliers DC, Siebert F (2022) Identifying key risks to the performance of privately protected areas (PPAs) through theory of change (ToC). *J Environ Manag* 308:114575. <https://doi.org/10.1016/j.jenvman.2022.114575>

- Roe D (2008) The origins and evolution of the conservation-poverty debate: a review of key literature, events and policy processes. *Oryx* 42(4):491–503. <https://doi.org/10.1017/S0030605308000462>
- Rolston IIIH (1996) Feeding people versus saving nature? In: Aiken W, LaFollette H (eds) *World Hunger and Morality*. Prentice Hall, 248–267
- Rolston IIIH (1998) Saving nature, feeding people, and the foundations of ethics. *Environ Values* 7(3):349–357
- Sandbrook C, Fisher JA, Holmes G, Luque-Lora R, Keane A (2019) The global conservation movement is diverse but not divided. *Nat Sustain* 2(4):316–323. <https://doi.org/10.1038/s41893-019-0250-2>
- Shume TJ (2017) Mapping conceptions of wolf hunting onto an ecological worldview conceptual framework—hunting for a worldview theory. In: *Animals and science education*. Springer, Cham, pp. 223–241. [https://doi.org/10.1007/978-3-319-58545-1\\_14](https://doi.org/10.1007/978-3-319-58545-1_14)
- Singer P (2011) *Practical ethics*. Cambridge University Press
- Siurua H (2006) Nature above people: Rolston and “fortress” conservation in the South. *Ethics Environ* pp. 71–96
- Smith TB (1973) The policy implementation process. *Policy Sci* 4:197–209. <https://doi.org/10.1007/BF01405779>
- Soulé M (2013) The “new conservation”. *Conserv Biol* 27:895–897. <https://doi.org/10.1111/cobi.12114>
- Soulé M (2014) The “new conservation”. In: *Keeping the wild: Against the domestication of earth*. pp. 66–80
- Stolton S, Dudley N, Randall J (2008) *Natural Security: Protected areas and hazard mitigation*. WWF, Gland
- Stolton S, Dudley N, Avcıoğlu Çoçalışkan B, Hunter D, Ivanić KZ, Kanga E, Kettunen M, Kumagai Y, Maxted N, Senior J, Wong M (2015) Values and benefits of protected areas. In: *Protected area governance and management*, pp.145–168
- Strauss A, Corbin J (1998) *Basics of qualitative research techniques*. Sage
- Tanner R, Friemund W, van Wyk E (2010) Legitimacy and the use of natural resources in Kruger National Park, South Africa. *Int J Socio* 40(3):71–85. <https://doi.org/10.2753/IJS0020-7659400304>
- Taylor PW (1981) The ethics of respect for nature. *Environ Ethics* 3(3):197–218
- Tenbansel T (2006) Policy knowledge for policy work. In: Colebatch HK (ed) *The Work of Policy: An International Survey*. Lexington Books, 199–216
- Terborgh J, Peres CA (2017) Do community-managed forests work? A biodiversity perspective. *Land* 6(2):22. <https://doi.org/10.3390/land6020022>
- Tesch R. (1990). *Qualitative Research: Analysis Types and Software* (1st ed.). Routledge. <https://doi.org/10.4324/9781315067339>
- Washington W, Taylor B, Kopnina HN, Cryer P, Piccolo JJ (2017) Why ecocentrism is the key pathway to sustainability. *Ecol Citiz* 1(1):35–41
- Watson JE, Dudley N, Segan DB, Hockings M (2014) The performance and potential of protected areas. *Nature* 515(7525):67–73. <https://doi.org/10.1038/nature13947>
- Wildes FT (1995) Recent themes in conservation philosophy and policy in the United States. *Environ Conserv* 22(2):143–144
- Wilson EO (2016) *Half-earth: our planet’s fight for life*. WW Norton & Company
- Wuerthner G, Crist E, Butler T (2015) *Protecting the wild: Parks and wilderness, the foundation for conservation*. Island Press
- Yin, R.K. (2012) *Applications of case study research (Vol. 34)*. sage.
- Zhang Y, Wildemuth BM (2009) Qualitative analysis of content. In: Wildemuth BM (ed) *Applications of social research methods to questions in information and library science*.