

Reviewer Report

The authors have done a remarkable job at addressing previous reviewer comments and concerns and incorporating their suggestions. Only a few minor edits, as indicated below, are required before I would recommend the article to be accepted.

L21: system thinking -> systems thinking

L69: **has** started to gain? "has" would refer to something that has started recently - but the authors refer to the beginning of the new century. I would recommend deleting "has".

L78: It may be interesting for the authors to note a current discussion surrounding the terminology "natural disaster" vs simply "disaster" (see Kelman, 2020).

Kelman, I. (2020). Disaster by Choice: How our actions turn natural hazards into catastrophes. Oxford University Press.

L112: drought -> droughts

L169: I would request the authors to remove the example tsunami - as an example of the effects of climate change - unless they can somehow clarify that tsunamis are not an effect of climate change, rather the impacts of tsunami are likely to worsen because of the effect of climate change on sea-levels. Also, for the other disasters, the authors should be consistent in their use of plural forms - hurricanes, ... , droughts

L172: **had** arisen

L175: causation" (Andler, 2014, p. 286) -> causation" [Andler, 2014, p. 286]

L176-177: "Most social constructivists do not believe that reality is objective in the naturalist sense (strictly defined) and can thus be fully grasped" -> A bit confusing in my opinion. Do the authors mean to say that because reality is considered to be subjective by most social constructivists - reality **cannot** be fully grasped? If so then, then the authors need to change the sentence to -> ...and thus **cannot** be fully grasped.

L185: the(un)equal -> the (un)equal

L233: "interacting" / Interact has been used two times in the same sentence. Kindly remove one instance of it -> "... diverse ~~interacting~~ agents that make decisions, interact and learn..." OR "... diverse interacting agents that make decisions, ~~interact~~ and learn"

L240: micro-macro scale-> micro and macro scale

L250: intervention -> interventions

L261: Avoid back-to-back brackets/paranthesis: "... system property) (cf. Andler, 2014)" -> "... system

property; cf. Andler, 2014)"

L276: governments" -> governments'

L295: do the authors mean to stay rising **sea** levels? Please change accordingly.

L301: very concept resilience -> very concept **of** resilience

L305: **a** unifying paradigm

L307: Resilience to climate change research -> I would say that the following sounds less confusing:
Climate change resilience research ...

L325: When the authors state "between social scientists" - the question arises - between social scientists and whom? However, if they mean that there is disagreement within the social science community - then I would ask the authors replace "between" with "**among**".

L340: (growth, accumulation, restructuring, and renewal) (Folke, 2006) -> (growth, accumulation, restructuring, and renewal; Folke, 2006)

L364: As the Meuse flows through several countries, it is not clear which government the authors are referring to. The authors should try to modify the text in a way that it can easily be grasped by an international audience.

L368: a research -> research

L370: "at the level of land-use" -> does not sound appropriate. Do the authors mean "in terms of land-use" / "with respect to land-use".

L371: The authors may want to be clearer about the location/ geographical context of the research finding. Also "found out that" -> "found that"

L381: Do the authors mean **anthropogenic** shocks?

L390: It is quite a statement to make that structural power is not measurable (arguable/debatable at the least). See:

Brams, S. J. (1968). Measuring the concentration of power in political systems. *The American Political Science Review*, 62(2), 461-475.

Mayhew Jr, B. H., Gray, L. N., & Richardson, J. T. (1969). Behavioral measurement of operating power structures: Characterizations of asymmetrical interaction. *Sociometry*, 474-489.

Upon having a fast look at two of the cited references - Lockie (2016) and Howell (2015) -, I have not understood where they state that structural power cannot be measured (I may be mistaking). I would request the authors to double-check such citations, and to be careful that the references are cited in the correct places.

L398: "long term sustainability" -> long-term sustainability

L399: <space> after positions

L426-29: any pollutant that cause global warming is a greenhouse gas. Therefore I would suggest to change the sentence from: "...degradation, water pollution, as well as greenhouse gas emissions and other pollutants that have been causing global warming (Cook et al., 2016)." to ""...degradation, **air and** water pollution, as well as greenhouse gas emissions that have been causing global warming (Cook et al., 2016)."

L442: green technological ? do the authors mean green technologies or green technological innovation

L462: They propose **that** the creation

L468: Is "upcoming" in "upcoming themes" the appropriate word to use? Or is a better terminology would be "evolving themes", "emerging themes", "recurring themes". By the very definition of the word - "upcoming" means something that is about to happen / forthcoming . These research themes have already appeared in the literature, and hence I feel the choice of the word is not appropriate.

L482: Continuing attention -> **continued** attention OR **continuous** attention

L488: inter-, multi- and transdisciplinarity

L489: It ~~does~~ entails

L496: Wilson's ; consilience should be within quotes

L516: system thinking -> **systems** thinking

L519: alternatives imagined by human imagination. -> alternatives **through** human imagination.

L528-531: The use of quotation marks look a bit messy here. Please use single quotes within double quotes.

consists in the

L534: consists in -> consists **of**

L534-35: "...contextualization of resilience research and discourse, that is, in embedding **it** in **its** political and cultural context" => as there are two different aspects the authors are referring two - research ad discourse - shouldnt it be "embedding **them** in **their** political and..."

L538 **a** change / changes ; **systems** thinking

L539-41: The sentence is confusing: Does this make more sense: For instance, on the one hand, environmental ~~protest~~ movements ~~are~~ include stakeholders who develop a leverage required to transform established systems (such as energy systems) and their governance arrangements.

L542: hold power, thanks to such arrangements, typically

L551: ensures

L557: tipping point for igniting transformation: There may be a more appropriate way to express this - as tipping points refer to a "situation, process or system beyond which a significant and unstoppable effect or change takes place" - and hence is more in line with describing an undesirable situation. Consider revising the phrase, perhaps, "and the threshold that needs to be surpassed for adaptation to be considered as transformational."

L571: "conflict organized around scarce resources"? conflicts can happen without being intentionally organized. I would request the authors to consider using a different word, perhaps *conflict surrounding / related to* ,,,

L572: closing -> shutting down

L573: " becomes a more urgent research topic" -> become more urgent research topics

L575... "In other words, what are the implications of the disintegration of old systems for societies, that is, for their cultures, collective identities, traditions, economies, political-administrative power constellations, class structures, etc.?.; and which societal transformations promote such disintegration?. In other words, what are the implications of the disintegration"->

"What are the implications of the disintegration of old systems for societies, that is, for their cultures, collective identities, traditions, economies, political-administrative power constellations, class structures, etc.? Which societal transformations promote such disintegration?"

L605: (uninhabitat.org, 2019) -> please check if this is the correct way of citing internet sources for this journal.

L608: whom? What... { for all other instances please remove the semi-colons and start a new question.

L610-12: *excluded* -> **are being** excluded , comma after 'process' , involve -> involves

L621: A long debate has been going on for the past 2 decades about terminologies such as climate-induced migration, and the like, because of the oversimplification of complex phenomena, and problems with solely attributing an event of movement to climate change impacts. That is not to say that people do not move in response to environmental and/or impacts of climate change. However, at least the authors should consider using the term "mobilities" instead of migration, to include more than just discrete events of migration.

See the comment by:

Boas, I., Farbotko, C., Adams, H., Sterly, H., Bush, S., van der Geest, K., ... & Hulme, M. (2019). Climate migration myths. *Nature Climate Change*, 9(12), 901-903.

L621: semi-colon after the question mark should be deleted.

626: Very interesting point made here. However, do the authors actually mean ethnic relations rather than "racial relations".?

640: some decades ago

649-650: the challenges of climate change-> the challenges of **addressing** climate change **impacts**

L653: systems thinking

L658: destroying -> **eliminating**

L661: consists in -> consists **of**

L663: The interaction ~~between~~ as well as the blurry line

In the conclusion, a final conclusive sentence is missing. I would suggest that the authors include one final sentence at the end of the conclusion.