

## ***Interactive comment on “Actors and networks in resource conflict resolution under climate change in rural Kenya” by G . W. Ngaruiya and J . Scheffran***

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We appreciate the comments on the manuscripts by J. Njoroge (referee 1) which helped us refine the manuscript further. We also clarified certain areas for better understanding of our study.

The suggested specific comments by the referee also guided the reply below and manuscript changes.

These are:-

1. Line 12 change the word ‘into’ to ‘to’ – Accepted change

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2. Statement 56-55 ‘Adaptation measures...’ is misplaced in the paragraph or rather lacks connection to the ideas articulated in the paragraph. It fits better as an opening statement for the next paragraph – Accepted change as a new sentence in the next paragraph.

3. Statement on line 221 is incomplete – We corrected the sentence to read “Adaptation funding is already being made available and adaptation projects are under way in many rural communities (Yanda and Bronkhorst, 2011). However, escalating cases of resource conflicts are projected to overwhelm rural conflict resolution mechanisms and reinforce the trend towards general instability and insecurity that already exists in many societies and regions (WBGU, 2008).”

4. It will be of significance to cite few studies that have applied your methodology and or that have focused on your theme.

Several literature are quoted in the manuscript that reflects: I. The social network analysis methodology e.g. a. Bodin, Ö. and Prell, C.: *Social Networks and Natural Resource Management: Uncovering the Social Fabric of Environmental Governance*, Cambridge University Press., 2011. b. Burt, R.: *Brokerage and closure: an introduction to social capital*, Oxford University Press, Oxford; New York., 2011 c. Wasserman, S. and Faust, K.: *Social network analysis methods and applications*, Cambridge University Press, Cambridge; New York., 1994. II. The theme of climate change and resource conflicts in sub-Sahara e.g. a) Buhaug, H.: *Climate not to blame for African civil wars*, Proc. Natl. Acad. Sci., 107(38), 16477–16482, 2010. b) Burke, M. B., Miguel, E., Satyanath, S., Dykema, J. A. and Lobell, D. B.: *Warming increases the risk of civil war in Africa*, Proc. Natl. Acad. Sci., 106(49), 20670–20674, 2009. c) Carius, A.: *Climate Change and Security in Africa Challenges and international policy context*, United Nations, Berlin, Germany. 2009

5. Finally in your conclusion line 573 you have mentioned and affirmed about existence of few studies. Are you able to cite some of them in order to guide further reading? I

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have included a short reference in the paragraph indicating where the referred literature can be found i.e. the literature cited in section 2.1. in lines 178 – 189 that discuss capacity challenges in climate driven resource conflicts.

6. Furthermore you need to guide your discussion in relation to other studies in the region or focusing on the theme. The issue of resource conflicts in relation to climate change is addressed in section 2.1., especially in lines 249 – 260 where we highlight the knowledge gap that we seek to address.

7. Also line 574-575 statement also needs affirmation by providing examples of those studies. These sentences in the conclusion section reflect several studies cited within the text namely: Hyden et al., 2005; Eriksen and Lind, 2009 and, Ngaruiya and Schefran, 2013 in lines 72, 236 and 270 respectively.

8. It would also be of interest to have your opinion on how formal judicial mediation and traditional approaches may be strengthened through collaborative efforts. Just a thought! Reflecting on the study, we propose that the government formulates holistic resource management policies that institutionalize hybrid governance structures down to the local level. This action will provide a forum for; 1) The community to incorporate indigenous knowledge into management of their natural resources, promote cultural knowledge transmission and resolve resource conflicts using traditional structures that are significant to the community. 2) The forum will also help growth of social capital which will aid increase in adaptive capacity and enhance local economic development.

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