

Review of: "Weathering changes – livelihood adaptation to weather shocks in rural India by disadvantaged social groups"

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Potential competing interests: No potential competing interests to declare.

1 Summary

This paper studies the impact of climate change on the migration pattern in rural India. The author uses the first-difference regression to study the impact and finds that disadvantaged social groups are less likely to participate in migration. Besides, the author finds that social networks do not play a significant role in migration behavior, and that efficient implementation of NREGS through poverty alleviation can improve the probability of migration.

2 Comments

1. **Overall Reactions:** I really like the topic of this paper, and the author also does a great job of illustrating the importance of the topic. However, this paper is not well fleshed out. It would be better if the author could further elaborate to make additional analysis. Besides, some details also remain to be improved.
2. **Introduction:** Overall, this part is well-done. The author does a good job of reviewing the literature and providing context for the study.
3. **Research questions:** In this section, the author specifies that the independent variable of interest in this paper is *low-onset* climate change. However, the author's repeated use of the terms "weathering changes" and "weather shocks" in the preceding text and even in the title may lead readers to misunderstand that the independent variable of interest in this paper is *short-term* weather shocks. If the author could make terminology consistent throughout the paper, the possible misunderstanding might be reduced.
4. **Analytical strategy and regression results:** It would be better if the author could further elaborate on the following issues:
 - a. In this section, the author lists the analytic strategies and regression results for all four research questions consecutively, and the logical connection between the four research questions is not clear, which may lead to reader fatigue. The above problems might be alleviated if the research questions were divided into three categories: baseline regression, heterogeneity analysis, and further analysis.
 - b. Further discussion of mechanisms: While reading the article, I kept expecting to learn why the response of disadvantaged social groups to climate change was not significant, i.e., the mechanism. From the existing regression results and literature, the possible mechanism is that disadvantaged social groups lack the financial

resources needed to migrate. If the data is available, examining the mechanism may make the article more informative.

5. **Conclusion**: Overall, this section is well done.