When Forest Fires Become Disaster:

Examining the Evolving Governance of Forest Fires in India

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INTRODUCTION

Globally, forest fires have remained a focus area in national forest legislation and policies for nearly a century. Recently, with the emergence of megafire events and climate change, forest fires have been increasingly included in disaster risk management policies. What are the implications of recognizing forest fires as disasters? This study examines the evolving governance of forest fires in India as they gain recognition under disaster management policy. In particular, it focuses on forest fires in the Himalayan state of Uttarakhand, a state prone to frequent forest fires that experienced large wildfire events in 2016, which influenced the disaster recognition of forest fires at the national level.

POLITICAL ECOLOGY OF DISASTER

- The decision to declare a problem as a disaster has material and ideological consequences. Claims of technocratic expertise can be used to maintain power (Remes and Horowitz, 2021).
- The traditional distinction between man-made and natural disasters is difficult to sustain under the conditions of the Anthropocene. Disasters are more than human and more than natural (McGowran and Donovan, 2021).
- Causes of disaster matter in shaping solutions. Disasters are defined according to the solutions at hand (Quarantelli, 1998).
- Disaster is both an event and process. It is important to examine the conditions that lead to them (Pelling, 1999).









To analyze how policy recognition of forest fires as disaster influences forest fire management in India

RESEARCH QUESTIONS

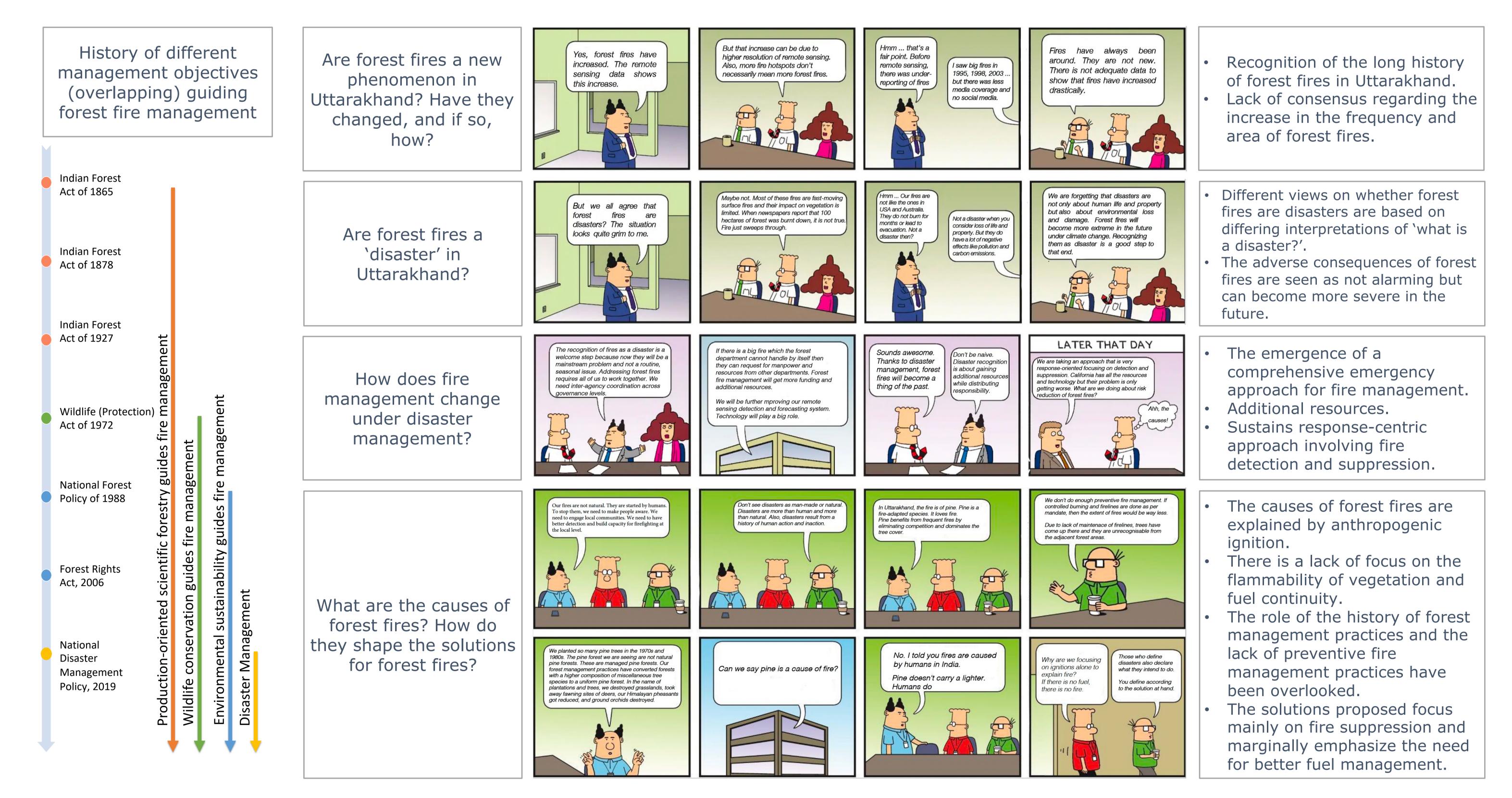
- How has the policy focus on forest fires in India transformed in response to their recent recognition under disaster management?
- What are the consequences of classifying fires as disaster for forest fire management?
- How do different stakeholders perceive the causes of forest fires and propose solutions to address them?

Data Collection

- Thirty semi-structured interviews with government officials, ecologists, remote sensing scientists, and news reporters conducted at the national and state level.
- Document analysis of government policies, schemes, action plans and reports on fires at national level and for Uttarakhand state.

Data Analysis

Thematic Analysis of interviews and documents



RESULTS AND DISCUSSION

CONCLUSION

The recognition of forest fires under India's National Disaster Management Policy has brought a renewed focus on forest fire prevention and management. Forest fire management involves coordination between different government agencies across levels of governance. However, the current approach upholds the conceptualisation of forest fires as anthropogenic by identifying human ignition as the cause of fires. In doing so, it overlooks the role of fuel and vegetation in the start and spread of fires. Consequently, the proposed solutions remain response-centric, focusing on fire detection and suppression. Although fire suppression is an important aspect of fire management, its success is limited, and continuous suppression can lead to a higher fuel build-up. Furthermore, suppression frames all fires as bad and fails to consider the ecological and livelihood roles of fires. We argue that recognising forest fires as a disaster can contribute to their effective management and mitigation, but this would require an anticipatory approach to forest fire risk reduction. There needs to be sustained focus on fuel reduction or modification measures. We concur with Gill (2005) that the problem of forest fires has multiple partial solutions, and all partial solutions must be considered to minimise risk. There is no policy panacea for forest fires.

REFERENCES

- McGowran, P. and Donovan, A., 2021. Assemblage theory and disaster risk management. Progress in Human Geography, 45(6), pp.1601-1624.
- Pelling, M., 1999. The political ecology of flood hazard in urban Guyana. Geoforum, 30(3), pp.249-261.
- Remes, J.A. and Horowitz, A. eds., 2021. Critical disaster studies. University of Pennsylvania Press.
- Quarantelli, E.L. ed., 1998. What is a disaster?: perspectives on the question. Psychology Press.
- Gill, A.M., 2005. Landscape fires as social disasters: an overview of 'the bushfire problem'. Global Environmental Change Part B: Environmental Hazards, 6(2), pp.65-80.