







NIHR Health Protection Research Unit in Environmental Change and Health

Migration and Climate Change Workshop: November 2023

Summary Report

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Summary

The UK Health Security Agency (UKHSA) and the National Institute for Health and Care Research (NIHR) Health Protection Research Unit (HPRU) in Environmental Change and Health undertake work to increase the evidence base around the health impacts of environmental change, including the broader health co-benefits of climate action. Communication and dissemination of this evidence is imperative in order to increase understanding around the topic across multiple organisations and ensure that important research findings are disseminated.

A broad range of stakeholder organisations were invited to a day-long workshop, held in November 2023, to share and discuss areas of research work from the HPRU. The workshop was organised by the the UK Health Security Agency (UKHSA) in collaboration with the London School of Hygiene and Tropical Medicine (LSHTM) and the University College London (UCL).

This report presents an overview of the that stakeholder workshop along with the key messages that emerged.

Introduction and Background

It has long been discussed if and how climate change can drive population movements and migration. Whilst it is universally accepted that average global temperatures are rising, climate change also has other complex and less well understood implications at the local level. In different parts of the world, climate change has been linked to sea level rise, salinization of freshwater supplies, changing flooding and droughts, pest and alien species invasion, changing weather patterns, and extreme events. The most fundamental risks arising from these impacts may be the risk to water and food security and resource provisioning, especially in parts of the world where these fundamentals are already challenged. This can threaten the social and physical wellbeing of local communities, with conflict and population displacement being possible responses. Trapping and immobility are also outcomes of such threats, with those most vulnerable at highest risk.

The relationship between climate change and migration is subject to various complex social, political, cultural, economic, and environmental factors. Due to the multitude of interacting climatic and non-climatic drivers, the exact causal chains and links between climate change and migration are difficult to demonstrate with a specific degree of confidence. While many frameworks of such complexity have been proposed, the interrelatedness of climate change with human migration is highly complex, poorly understood, contested, and thus has been difficult to quantify. This is also greatly compounded by a lack of empirical data and studies, resulting in significant research gaps.

Within the emerging and pan-disciplinary field of Planetary Health, the interlinking of climate and environmental change to migration is identified as a major topic for human health and development, and a key research area. Therefore, any research in this complex area can contribute to inform policies aiming to minimize risks, grasp migration-related opportunities, and ultimately address the underlying causes of vulnerability that might result in climate and environmental change induced migration and/or trapped populations.

Workshop Overview

A one-day day workshop was held in London with hybrid option for those attending overseas.

The beneficaries of this workshop were:

- The public health community,
- The scientific community to inform and plan for multidisciplinary research needs, applied research that translates to public health and policy mobilisation and response,
- The policy and decision makers to discuss development of frameworks for monitoring, data needs and research on climate change and migration
- NGOs and field organisations working with displaced and challenged communities bringing the local context and also to exchange learning and to improve community resilience and adaptation.
- High-level agencies/stakeholders invited to raise awareness of the value of the Climate Change-Migration research.

Workshop Aims and Objectives

Aims were to:

- a. Facilitate debate and discussion in the climate change migration nexus topic, focusing on current knowledge and needs.
- b. Work towards an agenda for future research on the climate change migration attribution, with the goal of informing policy and response.
- c. Develop collaborations and plan projects which focus on widening participation from low-income, socio-economically disadvantaged geographic regions, and those most vulnerable to the impacts of climate change.
- d. Identify co-operation with local and high-level agencies/stakeholders to understand what needs to be done next and key gaps, while valuing work done on the ground.

- a. Define needs and priorities based on current research on this topic and data available.
- b. Develop a framework for monitoring and research in the proposed field, in identifying key drivers of migration and attribution of climate change impacts.
- c. Discuss a research framework for action based on approaches currently being used and new methodologies needed.
- d. Discuss the widening of participation and inclusivity of wider geographies in this agenda.

e.

Participants

A broad stakeholder audience was invited through a range of UKHSA and HPRU distribution channels. Representatives were included from multiple organisations, including academia and academic organisations.

There were 31 attendees overall, with an almost equal split of males and female attendees (15 males and 16 females).

Representatives attended from the UK, Australia, Italy, Bangladesh, Geneva, Belgium, France, Portugal.

The following organisations were represented: academia: LSHTM, Imperial College, Heidelberg, UCL, Open University, University of Oxford, Welcome Trust, ISDE, UKHSA, Oxford Centre for Migration, Glasgow Migration HubInternational Organisation of Migration (IOM).

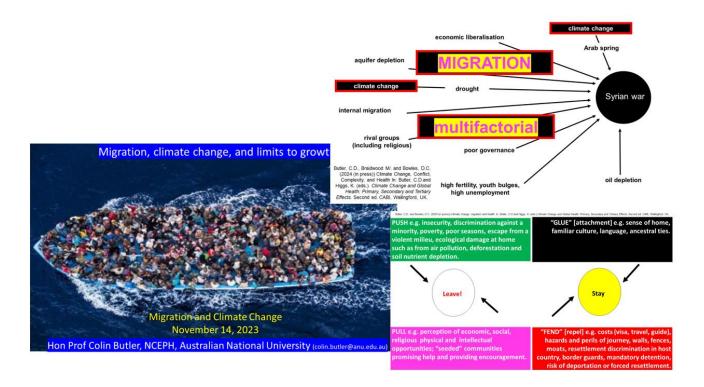
The workshop run was primarily facilitated by the UKHSA Environmental Epidemiology Team, with planning support from HPRU partners. The hybrid option of the workshop was held via Microsoft Teams.

Programme

The full programme is included in Appendix 1, and a summary of the workshop is presented below.

Key note Presentation

Professor Colin Butler gave the first 30 minute keynote talk, entitled 'Migration, Climate Change and Limits to Growth' Butlers talk highlighted findings from the global trends forced displacement report in 2022, https://www.unhcr.org/sites/default/files/2023-06/global-trends-report-2022.pdf



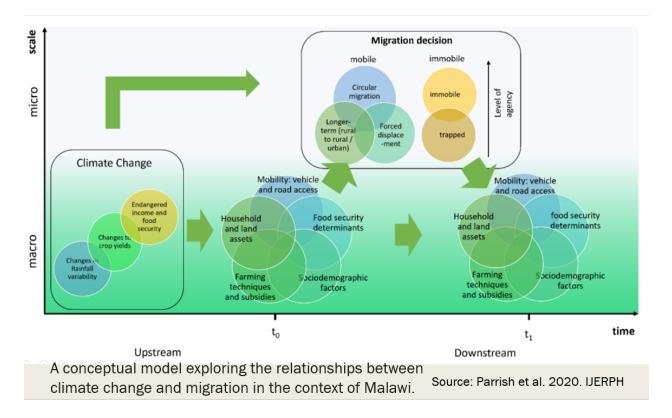
He discussed the multifactorial nature of migration which maybe brought about by liberal economic transitions.

He noted that there are 4 vectors which can affect migration, *push* and *pull*; and *glue* and *fend. Push* includes insecurity, discrimination against a minority, poverty, poor seasons, escape from a violent milieu, ecological damage at home such as from air pollution, deforestation and soil nutrient depletion. *Pull* includes perception of economic, social, religious, physical and intellectual opportunities; "seeded" communities promising help and providing encouragement. *Glue* was described as the attachment e.g., the sense of home and ancestral ties, whereas *Fend* is the repellent, e.g. costs of visa etc., or the hazards of the journey. He outlined a number of case studies and highlighted that only focusing on ecological factors is inhibiting the discussion about the drivers and context of migration.

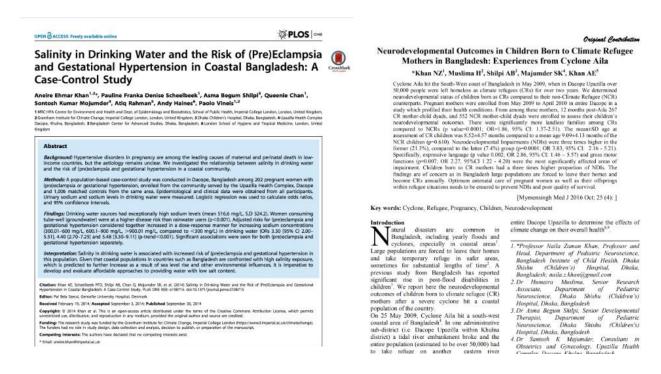
Case Studies

A number of case study examples were presented to showcase examples of migtration scernarious and examples of migration response.

The first was a case study from Malawi given by Dr Ariana Zeka. She highlighted the complexity of the climate change - migration nexus and focused on the impacts of climate change on crop yield and food security, and how these in return affect migration agency.



A case study from Bangladesh was presented by Dr Aneire Khan. Khan's presentation highlighted the rising sea levels impact on the salinity drinking water and agriculture, and the health impacts in the affected populations.



A case study of response in Italy was given by Professor Paolo Vineis where he discussed the migration situation in italy, and the conditions of migrants in the receiving country. He highlighted the need for implementation of humanitarian corridors which allow migrants to integrate faster.

More vulnerable occupationalsegments





Articl

Heat Stress Perception among Native and Migrant Workers in Italian Industries—Case Studies from the Construction and Agricultural Sectors

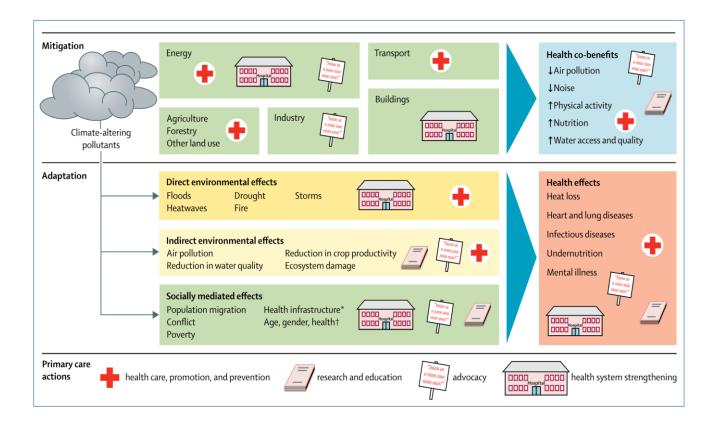
Alessandro Messeri ^{1,2,*}, Marco Morabito ^{1,3}, Michela Bonafede ⁴, Marcella Bugani ⁴, Miriam Levi ⁵, Alberto Baldasseroni ⁵, Alessandra Binazzi ⁴, Bernardo Gozzini ⁶, Simone Orlandini ^{1,2}, Lars Nybo ⁷, and Alessandro Marinaccio ⁴





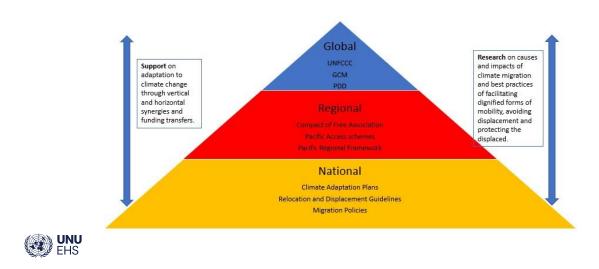
Dr Stacey Heath gave an overview of a case study of contextual factors of migration in Ghana.

Dr Paolo Lauriola discussed the role of primary, secondary and tertiary health system integration for prevention, when supporting migrants, particularly in preventing infectious, environmental, and climatic risks associated with unfavorable socio-economic conditions that lead to migration. He noted that the relationship between social and health professionals and the local communication system must be strengthened to improve information for citizens. Referring to the WHO model for primary and community health role in response and prevention under climate change pressures (figure below), he illustrated with current pilot studies applying such model in south of Italy (Calabria).



Case studies of response in the pacific given by Dr Robert Oakes, which highlighted the need for a both top down and bottom-up approaches in identifying the risks for migrants.

Conclusion - Need for top down and bottom-up approaches



A case study from Pakistan given by Dr Wasif Shah, showcased the example of the role of integrated surveillance systems in informing public health agencies in support actions that prepare and respond.

Panel Discussion: 'What now? Policy & Research: perspectives and strategies'

An expert panel discussion then took place to sumamrise and discuss key issyes. The panel comprised of Dr Soumyadeep Banerjee, Dr Paulo Lauriola, Dr Robert Oakes, Dr Stacey Heath, and was chaired by Dr Ilan Kelman, Ms Martina Castiglioni.

Key messages from Panel discussion

- The assumption in the West that migration is a problem highlights the need for a more humanistic approach in these discussions, especially when it is the more affluent countries that are more likely to have emigrants.
- -The way we frame migration and migrants is also crucial.
- The importance of how political identification shapes many beliefs and stances on both climate change and migration (even as separate identities)
- Often migration experts or public health specialists dealing with the frontline of response are not included on planned migration initiatives and remittance plans. Therefore, there are very few case studies on the impact of remittances on economic growth. The few studies there are focus on internationally settled migrants only, not internal migration which is more common.
- The need to strengthen the evidence, and overcome the difficulty in the framing of climate change, mediating pathways and migration issues

Roundtable Discussions

Questions for small group consideration

Following a lunch break, roundtable discussions took place in small groups. During thelement of the workshop, there were several discussions that centred on the following questions:

- 1. Is it possible to examine the multifaceted nature of the drivers of migration and displacement, and is it possible to disentangle climate as a driver?
- 2. What are the common elements among the non-climatic drivers of migration? What evidence is needed to assist in informing and influencing actions in relation to climate change-migration and displacement nexus?
- 3. How can local knowledge inform actions and strategies for prevention and mitigation of climate-related migration and displacement?
- 4. What informs the development of research capabilities and capacities for monitoring and predicting population mobility, and with the ability to identify vulnerable population groups?
- 5. How can researchers explore what makes a place 'uninhabitable'?

- 6. Is it possible to divide climatic drivers of migration into those associated with and without anthropogenic climate change? Would this matter?
- 7. Are there any common elements among the non-climatic drivers of migration, and, if so, are any of these amenable to intervention? Is there anything the research community can or should do to contribute to this debate?
- 8. How can research inform regional and global strategies for humanitarian and comprehensive planning in favor of people who are facing forced migration and displacement?
- 9. What does research community mean by population 'trapping'? Are there any drawbacks from using this definition?

Small Group discussion Feedback

The workshop concluded with feedback being provided by each group on the small group discussions. Some of the key issues that emerged from all the all group discussions are summarised as follows.

It was considered important how scientific, policy, response and other communities frame migration and migrants. The importance of politics and the political identification shape the beliefs and stances on both climate change and migration. In many scenarios it is a pertinent question to ask is, does it matter? And if so, "to whom, for whom, and to what end"?

The involvement of different disciplines and cross-sectoral collaborations is required when framing issues, developing evidence, and informing the response. More is required to ensure all relevant structural, social, and political drivers are accounted for, and avoiding the risk of reducing the complexity of how and why migration occurs to simply 'climate'.

Public health or improved wellbeing should not be controversial, it could be a more politically expedient entry point, or framework for research and interventions compared to those aligned with climate change, migration (or for that matter, loss and damage and human rights approaches). Whether research is focused on the people and communities moving, staying, or hosting it is important to give health/wellbeing a central focus.

A common element among non-climatic drivers of migration is poor governance. Current government policies in many nations are badly formulated and perversely focused. Climate impacts including migration and mobility are not equal opportunities phenomena, but are always socially constructed.

Local knowledge is essential for any effective work in this area, and the need for a more people, human-rights approach in this field. This would also involve centralising indigenous knowledge and perspectives, amplifying their platforms and ensuring more representation from indigenous groups and gendered perspectives in these conversations. Research capabilities could be strengthened by amplifying of local voices and giving migrants a voice would be key in identifying vulnerable population groups.

Defining 'Habitability' needs to consider inter alia cultural, social, and economic dimensions distinct from and interacting with the environmental, through measurable impacts and the

perception of affected people. Uninhabitability is a complex process that occurs over time with different mechanisms and pathways; a clear taxonomy is needed to define it.

Acknowledgements

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Organising Committee:

Ariana Zeka (UKSHA),

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Ilan Kelman (UCL)

Scientific Secretariat:

Neelam Iqbal (UKHSA)

Scientific Support:

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- Dr Kerry A Broom (HPRU Knowledge Mobilisation Manager, UKHSA)

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Appendix 1

	Migration a	nd Climate Change workshop		
	14	4 th November 2023		
		9:00-16:00		
9:00 Registration and Coffee/Tea				
9:20	Welcome talk	Dr Ariana Zeka		
		Organising Committee Chair		
9:30	Keynote	Professor Colin Butler		
		'Migration, Climate Change and Limits to Growth'		
10:00	Case studies of migration	Dr Ariana Zeka		
40.40		'Climate Change and Migration nexus in Malawi'		
10:10	Case studies of migration	Dr Aneire Khan		
		'Climate change, and freshwater salinization and security in Bangladesh'		
10.20	Case studies of response	Professor Paolo Vineis		
		'Climate change and migration in Italy'		
10:30	Discussion	Chaired by Professor Ilan Kelman		
10:50	Case studies of migration	Dr Stacey Heath		
		'Integrating psycho-social impacts into climate adaptation		
		strategies: Lessons from climate-driven relocation in Ghana'		
11:00	Case studies of response	Dr Paolo Lauriola		
		'Health care integration for supporting vulnerable		
		populations, particularly migrants in Italy'		
11:10	Discussion	Chaired by Dr Ariana Zeka		
11:30	В	reak		
11.50	Case studies of response	Dr Robert Oakes		
		'Climate migration and agency in the Pacific'		
12:00	Case studies of response	Dr Wasif Shah		
		'Flood emergency and International Health Regulations policy		
		response: UKHSA perspective from Pakistan'		
12:10	What now? Policy &	Dr Soumyadeep Banerjee		
	Research: perspectives and	Dr Paulo Lauriola		
	strategies	Dr Robert Oakes		
		Dr Stacey Heath		
	Panel discussion	Chaired by Professor Ilan Kelman		
12:30		Lunch		
13:20	Set up the afternoon	Neelam Iqbal		
13:30	Roundtable discussions	Assigned rapporteur for each of the roundtables		
15:00	Reports on roundtable discussions	Feedback from all		

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16:00	Closing remarks	Dr Ariana Zeka

About the UK Health Security Agency

UK Health Security Agency (UKHSA) prevents, prepares for and responds to infectious diseases, and environmental hazards, to keep all our communities safe, save lives and protect livelihoods. We provide scientific and operational leadership, working with local, national and international partners to protect the public's health and build the nation's health security capability.

<u>UKHSA</u> is an executive agency, sponsored by the <u>Department of Health and Social Care</u>.

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