



Human Mobility in the Context of Climate Change

Migration, Displacement and Planned Relocation in the Eastern Caribbean, the Pacific, the Philippines and Eastern Africa

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Human Mobility in the Context of Climate Change

The movement of people from one area to another is an integral feature of many societies around the globe. Generally, people move in response to a variety of factors. While conflicts, persecution and disasters (natural or climate- or development-induced) have been major causes of displacement and migration, other people move as labour migrants or in response to changing environmental conditions. Migration and displacement are therefore complex phenomena driven by many different interlinked factors, so the term 'human mobility' includes different types of movement.

Human mobility in the context of climate change has continued to attract substantial attention in international research and policy circles. In particular, the most recent assessment by the Intergovernmental Panel on Climate Change (IPCC) notes observed and ongoing changes in global climatic and ecological systems. These slow-onset changes, such as rising sea levels, salinisation and increasing

temperatures, are having an adverse impact on the ability of populations to secure a livelihood and on their survival, especially in marginal areas. An increase in the frequency and intensity of extreme events such as floods, typhoons, drought and heatwaves will adversely affect human populations. This is likely to contribute to an increase in water shortages, food insecurity and disease and create new vulnerabilities with the potential for displacement, emergence of new patterns of migration and a higher probability of planned relocation.

While the exact extent of climate change impact on migration remains a subject of ongoing debate, there is widespread consensus that climate change has already had – and will undoubtedly continue to have – adverse effects on socio-economic conditions and thus undermine individuals' and societies' capacity to manage or adapt to the risks of climate change. Specifically, resilience is reduced as livelihoods are compromised, with adverse impact on food, water and eco-

conomic security: it is projected that in the near future, growing numbers of people are likely to be displaced or to decide to migrate or relocate as a response. Potential competition for scarce resources in host regions for displaced persons and migrants may heighten the risk of violent conflict, with implications for human security. An understanding of different mobility patterns and the ways in which they relate to climate-induced shocks and stressors will therefore be critical to developing strategic and effective policy responses and adaptation measures.

Climate change impacts may therefore also make 'trapped populations' more likely, resulting in immobility. This may occur when loss of capital or disruption of social networks undermines individuals' capacity to move. As a result, significant proportion of a population may become trapped in vulnerable areas and unable to move. Climate change in itself may therefore be a barrier to, as well as a catalyst for, human mobility.

Migration and displacement are complex multi-causal phenomena that need to be addressed and understood in the context of climate change, among many other socioeconomic factors.

Migration, displacement, and planned relocation may lead to disruption of traditional livelihoods and, if not managed properly, trigger human trafficking, forced labour, general discontent and violent conflict.

Effective management of human mobility, by contrast, may contribute to social, economic and cultural development and effective adaptation to climate change.

Key terms

- ▶ **Human mobility:** Human mobility results from multiple factors. In the context of the UNFCCC different types of climate-induced human mobility are differentiated: migration, displacement and planned relocation.
- ▶ **Migration:** People migrate for multiple reasons and when they have accumulated the necessary resources and capabilities to do so. By contrast with displacement, migration is a more or less voluntary decision taken by an individual or family. Climate-induced migration is usually internal. Even where slow-onset climate-related changes and extreme events cause cross-border migration, most people migrate regionally.
- ▶ **Displacement:** This is a frequently temporary process in which people are forced to move from their normal place of residence in response to a change in the political, social or economic environment. In the case of environmental change, displacement is associated mainly with extreme weather events. Communities, rather than individual households, are affected.
- ▶ **Planned relocation:** Planned relocation is a process driven by an affected community and organised by a government. It may be large-scale or small-scale. In some instances, these processes are initiated by communities that face the threat of losing their place of residence because of the negative impact of climate change. The close involvement of the affected communities and host communities is crucial to successful planned relocation.

International Frameworks

In general terms, international policy has long given only limited recognition to migration and displacement induced by climate change, disasters and other environmental processes.

However, renewed international efforts have culminated in the recognition of climate change impacts on human mobility under the 2010 Cancun Agreement as part of the UNFCCC Adaptation Framework.

Specifically, the 2010 Cancun Agreement emphasised the need for critical understanding of and coordination and

cooperation on issues of climate change-induced displacement, migration and planned relocation at all levels.

In 2015, at COP21, the Task Force on Displacement was created under the Warsaw International Mechanism for Loss and Damage Associated with Climate Change Impacts to formulate recommendations for addressing the adverse effects of climate change on displacement.

The Sendai Framework for Disaster Risk Reduction (2015-2030), formulated with the assistance of the United Nations Office for Disaster Risk Reduction (UNDRR, formerly

UNISDR), is a non-binding agreement that seeks to tackle climate change-related disasters, displacement and migration in countries of origin. It aims to do so by minimising climate and disaster impacts in vulnerable countries. In particular, the Sendai Framework recognises migrants and displaced persons as key stakeholders in planning disaster risk reduction.

The Nansen Initiative and the Platform on Disaster Displacement are non-binding, state-led international processes. The Nansen Initiative was a bottom-up consultative process involving diverse stakeholders in developing recommendations to protect cross-border displaced persons in the context of disasters and the effects of climate change. The Platform on Disaster Displacement is the follow-up process to the Nansen Initiative and has a coordinating function in assisting states to tackle knowledge gaps, promote policy coherence and mainstream human mobility within policy formulation.

The UN Sustainable Development Goals (SDGs) also identify the management of displacement as crucial to their achievement. Specifically, SDG 13.1 calls for strengthening resilience and adaptive capacity to climate-related hazards and natural disasters in all countries. Despite its recognition of and calls for safe, orderly and regular migration, there is no explicit reference to climate-related human mobility. The Global Compact for Safe, Orderly and Regular Migration (GCM) is rooted in the 2030 Agenda and the New York Declaration for Refugees and Migrants and is perhaps

the most comprehensive intergovernmental framework that holistically covers all dimensions of migration, including climate-induced migration. Although the GCM is not legally binding, its objectives recognise changing socio-economic and environmental conditions and the implications they may have for migration.

Renewed international efforts have culminated in the recognition of climate change impacts on human mobility under the 2010 Cancun Agreement as part of the UNFCCC Adaptation Framework.

The Global Programme Human Mobility in the Context of Climate Change

On behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), the GIZ Global Programme on Sustainable Management of Human Mobility in the Context of Climate Change (GP HMCCC) is working to support its partners in addressing and better understanding the complex, multi-causal interrelations between different forms of human mobility and climate change and their reciprocal effects, especially in small atoll and island states in the Pacific and Caribbean regions and in the Philippines. In collaboration with national and regional partners, non-governmental organisations and universities, GP HMCCC promotes exchange between all the actors involved. It aims at improving applied knowledge relating to the sustainable management of human mobility in the context of climate change in its partner regions.

Fields of Action

The programme is focusing on:

- Supporting its partners at regional, national and sub-national level in managing human mobility in the context of climate change through participatory approaches.
- Developing information and resources on climate-induced human mobility. These processes will involve relevant

stakeholders from partner countries and regions in identifying existing knowledge and closing subject-related gaps, e.g. through capacity building and institutionalising exchange platforms.

- Supporting international processes by feeding knowledge and experiences from the partner regions into German and international development cooperation.

The GP HMCCC approach includes the following measures:

- Working with local and regional partners for regional integration, strengthening integrated approaches to better managing climate change-induced mobility.
- Supporting capacity development by conducting training courses and workshops on climate change-induced mobility and climate risk management.
- Promoting long-term planning and strategic inclusion of human mobility and climate change aspects in development planning.
- Supporting capacity development and knowledge management by creating media tools such as short public information video clips.
- Piloting activities in local communities to raise awareness and increase resilience.





The Caribbean

Human Mobility in the Context of Climate Change in the Caribbean

Climate projections for the Caribbean indicate that extreme events such as hurricanes¹, floods, droughts and heatwaves will become more frequent and severe. This will have implications for vulnerable states and populations, especially in coastal and flood-prone areas. Climate change impacts are also thought to interact with other complex socioeconomic factors.

In the Caribbean, the impact of climate-related events, particularly hurricanes, has often led directly to displacement. In some instances, climate change impacts have the potential to intensify underlying environmental challenges, as well as fragile social, economic and political conditions.

The Caribbean region has a long history of migration. Since the late 19th century, the region has experienced significant movement of people in response to labour demands and other

opportunities arising both within and outside the region. Alongside other notable socioeconomic drivers, however, environmental factors have always had an impact on human mobility across the region and will continue to do so.

The Intergovernmental Panel on Climate Change (IPCC) confirms that small island states in the Caribbean are highly vulnerable to climate and non-climate stressors, including floods, droughts, hurricanes, volcanic eruptions and earthquakes. Over half of the population in the region live within 1.5 kilometres of the coast and are therefore particularly exposed to the risks of climate-related and natural disasters. In recent decades, the Caribbean region has experienced an increasing number of Category 4 and 5 hurricanes, recurrent and prolonged droughts, rising sea levels, more frequent flooding and changes in weather patterns, as well as rising temperatures and unusually intense rainfall. While hurricanes and extreme weather events have been a familiar occurrence in the region, these events have grown more intense and increasingly unpredictable. In some cases, tropical storms have evolved into Category 5 hurricanes in less than 24 hours, as was the case with Hurricane Irma in 2017. This

shift in intensity and variability has impacted on livelihoods and placed pressure on national economies, leading to increasing internal and intraregional displacement of persons as well as outmigration.

In 2017, several hurricanes hit the Caribbean islands with devastating consequences. The island state of the Commonwealth of Dominica was devastated by the direct impact of Hurricane Maria. Most houses were destroyed, and around one fifth of the population was displaced. Heavy rains and the destruction of large areas of forests and other vegetation led to flooding, landslides and loss of agricultural crops. Following Hurricane Irma's destruction of about 95% of the housing on the island of Barbuda, the island's entire population was relocated to Antigua, its sister island in the two-island state of Antigua and Barbuda; this was the first time in 300 years that Barbuda had been evacuated.

Climate change is considered an existential threat to the Caribbean and will influence the dynamics of human mobility in the region. This calls for urgent action to develop an integrated approach to the needs of climate-related human mobility.

Overview of Eastern Caribbean States Supranational Memberships

The Caribbean island states are members of various regional supranational organisations, including the Caribbean Community (CARICOM) and the Organisation of Eastern Caribbean States (OECS), which is the implementing partner of the GP HMCCC in the Caribbean. Across the Caribbean, 16 island states are classified by the UN as Small Island Developing States (SIDS)²; these include 6 of the 12 Member States of the OECS (see map below). Although each island is unique, the OECS Member States are comparable in many aspects, such as landmass, culture and socioeconomic and political systems. They also face similar constraints in their efforts to develop, such as a scarcity of natural resources, susceptibility to natural disasters, geographic remoteness, vulnerability to external shocks, fragile natural environments, and strong dependence on international trade. Moreover, as small islands with similar geographies and socioeconomic conditions, OECS Member States tend to face similar climate-related impacts. The St. George's Declaration of Principles for Environmental Sustainability in the OECS notes that environmentally sustainable development is essential to the creation of jobs, a stable society, a healthy economy and natural systems. Since the Revised Treaty of Basseterre established the OECS economic union in 2011, the Organisation has sought to create a congenial socioeconomic space that facilitates the free movement of persons, goods, capital and cooperation in other sectors like agriculture and tourism to promote socioeconomic development across the region.

In view of the similarities between OECS Member States, many programmes that target a particular sector could simultaneously be extended to multiple Member States. This has the potential to deliver significant benefits. Collaboration on climate action within the context of the OECS as an economic union could therefore present enormous benefits across the region as well as the potential to increase regional integration.



Fig. 1: Map of OECS Member States and Associate Members
Source: OECS Commission 2019

Regional Migration Policies

Citizens of OECS Member States are permitted to move, reside and work freely in Member States without the need for a work permit or skills certificate. The Free Movement of Persons policy aims at enhancing economic prosperity within Member States. This policy has proved effective in the event of natural disasters as it allows OECS citizens easily to move to other Member States and benefit from the ability to work and access social services there. Further work needs to be done to monitor the movement of people, create flexible capacities for schools, hospitals and correctional facilities, and simplify ID documents to facilitate access in cases where individuals have lost all their belongings.

The CARICOM Free Movement Protocol (not yet fully implemented) allows free movement for seven categories of

¹ Hurricanes are tropical cyclones that form over the North Atlantic Ocean and Northeast Pacific.

Each island is unique, the OECS Member States are comparable in many aspects, such as landmass, culture and socio-economic and political systems.

skilled persons and their dependants. The Commonwealth of Nations facilitates migration to some degree between the United Kingdom and the current UK Overseas Territories that are Member States.

The existing national and regional policies do not explicitly mention displacement as a result of environmental hazards within home countries or abroad.

The Pacific Island Region

Human Mobility in the Context of Climate Change in the Pacific Island Region

Pacific Island countries are experiencing increasing internal and international migration, displacement and, as a last resort, planned relocation as a result of multiple phenomena, including natural disasters, labour mobility and rapid urbanisation. Migration has always been important to the development of the Pacific region and, if well managed, can be beneficial to the people and their families.

In the Pacific region, the impacts of climate-related events have often directly induced migration. In some instances, however, climate change impacts intensify underlying environmental challenges and fragile social, economic and political conditions. It therefore reduces resilience and

Main Activities of the Caribbean Component

- Technical support focused on reducing the displacement of persons due to climate events through supporting enabling frameworks, institutional capacities and instruments related to human mobility, e.g. HMCCC Strategic Plan 2020-2023 which set out a roadmap for action
- Generation of knowledge regarding human mobility in the context of climate change, e.g. gender case studies, studies on options to finance HMCCC, a virtual photo and art exhibition, short documentaries and graphics illustrating HMCCC
- A series of trainings and workshops to build capacity among border officials in OECS Member States as part of the Plan of Action to Address Human Mobility in Contexts of Disasters and Climate Change within the existing Caribbean Migration Consultations (CMC) Working Group
- Scenario planning workshops which identified thematic entry points on HMCCC for the OECS Commission and OECS Member States
- Awareness raising and pilot measures in five OECS Member States

exposes people to greater risk of displacement or motivates them to move elsewhere. In the future, the negative consequences of climate change will continue to have significant impact on human mobility and will shape migration, displacement and planned relocation.

Unmanaged climate risks are projected to slow economic growth, compromise livelihoods, erode food security and create new forms of poverty. In coastal, urban and agriculture-dependent areas and emerging hotspots, including many Pacific Island nations, the impacts of climate change are already felt significantly.ⁱⁱ In the Pacific region, densely populated coastal areas, which are highly exposed to climate events, face losses of land and coastal infrastructure as a result of storm surges, flooding, shoreline erosion and general rises in sea levels. The failure of subsistence crops and coastal fisheries also increases food insecurity.



In the Pacific, 13 island countries are classified by the UN as Small Island Developing States (SIDS). They share similar constraints on development, such as growing populations, susceptibility to natural disasters, limited resources, remoteness, vulnerability to external shocks, fragile natural environments, and strong dependence on international trade.ⁱⁱⁱ

Climate change is projected to cause more sudden-onset disasters in the Pacific, such as intense cyclones, which immediately displace people. Slow-onset events such as rising sea levels and droughts will also increase in frequency and may have an impact on human mobility. The Intergovernmental Panel on Climate Change (IPCC) confirms that small islands are recognised as being very sensitive to the impacts of climate change-related events such as rising sea levels, oceanic warming, rainfall, cyclones and coral bleaching (on which there is a high level of agreement and for which there is robust evidence). Small island nations will be disproportionately affected by rising sea levels, and some face the prospect of being entirely inundated. The IPCC Special Report (10/2018) highlights that some climate change impacts could be avoided if global warming were limited to 1.5°C (rather than 2°C).² For the Pacific region, this would

² PCC, 2018: Summary for Policymakers. In: *Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.* <https://www.ipcc.ch/st15/chapter/spm/>

mean a slower rate of rise in sea levels, providing greater opportunities for adaptation. Fewer people would then need to leave their homes or countries.^{iv}

Country and Regional Context

GIZ is active in all Pacific Island states negatively affected by climate change through various programmes. The GP HMCCC focusses especially on four countries, Fiji, Kiribati, Tuvalu and Vanuatu.

Because of differences in factors such as geological conditions, size, economic structures and distance to markets, history and government, among others, each of the four Island states has followed a unique development and deals differently with climate change and human mobility.

As a result, the GP HMCCC adapts to national and local needs in order to tackle a range of topics within the three different types of climate-induced human mobility.

Fiji

Fiji consists of two large mountainous islands of volcanic origin, Viti Levu and Vanua Levu, and over 300 smaller islands. About three quarters of Fijians live on Viti Levu's coasts, either in Suva or in smaller urban centres like Nadi and Lautoka, where coastal regions face an existential threat from rising sea levels. Because of its geographic conditions, relocation on higher ground may be an option in Fiji. In 2014, Vunidogoloa village was entirely relocated two kilometres inland, making it the first village in Fiji to have moved its entire population. The Government is pioneering policy development to provide equal support to all its coastal communities, whether they choose to stay or to relocate. In 2016, the Fijian Government had identified 830 climate-vulnerable communities⁵, and the option of planned relocation is currently being evaluated in 48 of them. With support from the GP HMCCC, its Climate Change & International Cooperation Division has finalised the National Planned Relocation Guidelines (2018) to assist with the planned relocation of ready-to-move communities. They have since been institutionalised within the Fiji Climate Change Act (2021) and substantiated by the Standard Operating Procedures (SOP) for Planned Relocation in Fiji (2023) that outline detailed steps to ensure a human-rights centred and all-inclusive approach. Furthermore, the set up of a Relocation Trust Fund (2019), specifically designed for Fiji's local needs, has been supported.

Kiribati

The country's economic development is constrained by climatic factors but also by its remoteness from international markets and the limited availability of natural resources. For 20 years, Kiribati has been working actively on adaptation

to climate change. Given its extremely high vulnerability, climate change threatens the very existence of Kiribati and its population. The country has developed widely acknowledged and pioneering climate change adaptation tools and methodologies. It has made a considerable contribution to the process of global and regional adaptation planning and management and to the development of a pool of knowledge on building climate resilience.

Tuvalu

By contrast with the larger mountainous states, Tuvalu is a low-lying small island state and classified as a Least Developed Country (LDC). Tuvalu is one of the smallest countries in the world with a total surface area of 26 km². Its highest point is 4.6 metres above sea level. This makes Tuvalu extremely vulnerable to climate change and rising sea levels. The country has limited natural resources, and its economy is based on subsistence agriculture and fishing. Despite the population being extremely vulnerable, Tuvalu's Climate Change Policy aims at improving the living conditions of the population through in-situ adaptation to make them more resilient and ultimately maintain national sovereignty. Relocation is considered as an option of last resort. However, labour migration schemes exist for Tuvaluan citizens.

Vanuatu

Vanuatu is one of the most vulnerable countries to climate change and natural disasters in the Pacific Island region. Its terrain is mostly mountainous and of volcanic origin, exposing it substantially to geological hazards such as volcanic eruptions. Vanuatu's economy is based primarily on sub-

sistence agriculture and suffers from the negative effects of climate change. The country's major climate change concerns are rising sea levels and sea temperatures and the possible increase in the intensity of cyclones and other major storm events. Climate variability and extremes will put more pressure on the prevalent small-scale agriculture.

By setting up its National Advisory Board for Climate Change and Disaster Risk Reduction (NAB), Vanuatu has been able to integrate best practice in the areas of climate change and disaster risk reduction. Setting up the NAB has helped to significantly improve coordination and governance in climate change and disaster risk management, improving implementation of the United Nations Framework Convention on Climate Change (UNFCCC).

Each country has designed country-specific policies. At the regional level, policies and programmes have often been developed with the support of international organisations, development cooperation institutions and academic partners.

Regional and National Policy Responses and Actions

While progress has been made at international level in addressing climate change-induced migration, most existing regional and national frameworks focus on climate change mitigation and adaptation and disaster risk reduction. At regional level, the GP HMCCC works with the Pacific Islands Forum Secretariat (PIFS) to establish a range of regional support mechanisms to support the Framework on Resilient Development in the Pacific (FRDP) and the Boe Declaration of the Pacific Island states. There is wide-ranging research and technical cooperation with the Secretariat of the Pacific Community (SPC) and the University of the South Pacific (USP) in the thematic areas of climate-induced human mobility and human security with a focus on exploring the security dimensions of migration, displacement and relocation under the aegis of the expanded security concept in the Boe Declaration.

The Secretariat of the Pacific Regional Environment Programme (SPREP) coordinates Pacific climate change action. For its members, SPREP is a key conduit for making use of UNFCCC and Conference of the Parties processes, the Paris Agreement, and other global climate initiatives.

Pacific states in particular have established policies and guidelines for addressing human mobility. Fiji, Kiribati, Tuvalu and Vanuatu have led the way in incorporating planned relocation, the human rights of internally displaced persons and cross-border movements into their governance arrangements. Some of the existing frameworks include:

National	Republic of Fiji National Adaptation Plan (NAP) 2018
	Fiji National Planned Relocation Guidelines (with support from GIZ) 2018
	Fiji Climate Relocation of Communities Trust Fund Act (with support from GIZ, 2018)
	Fiji Climate Change Act (2021)
	Standard Operating Procedures (SOP) for Planned Relocation in Fiji (with support from GIZ, 2023)
	Vanuatu Climate Change and Disaster Risk Reduction Policy 2016-2030
	Vanuatu National Policy on Climate Change- and Disaster- Induced Displacement 2018 (with support from the IOM)
Regional	Tuvalu Climate Change Policy (TCCP) 2012-2021 National Strategic Action Plan for Climate Change and Disaster Risk Management (NSAP) 2012-2016
	Kiribati National Framework for Climate Change and Climate Change Adaptation Kiribati Joint Implementation Plan for Climate Change and Disaster Risk Management 2014-2023
	Framework for Pacific Regionalism 2014 (PIFS)
	The 'Blue Pacific' identity 2017 (PIFS)
	Framework on Resilient Development in the Pacific: An Integrated Approach to Climate Change and Disaster Risk Management (FRDP) 2017-2030
	The United Nations Pacific Strategy (UNPS) 2018-2022
Boe Declaration on Regional Security - The Pacific Islands Forum Leaders in Nauru endorsed the Declaration in September 2018.	

Vanuatu is one of the first countries globally to prepare a policy on internal displacement resulting from climate change and disaster. The Vanuatu National Policy on Climate Change- and Disaster- Induced Displacement includes 1) recommended actions on local integration and planned relocation, 2) recommended actions on return and reintegration, and 3) integrating human mobility into development planning process. Through a common framework, the policy aims at assisting all people affected by displacement, whether triggered by a natural hazard or crisis (e.g. eviction).

The Framework for Pacific Regionalism (2014) is a regional approach addressing climate change and human mobility issues. The Framework has four objectives: 1) sustainable development, 2) economic growth, 3) strengthened systems, and 4) security for all. The economic and political integration it envisages enables the free movement of persons and goods within and among countries. Since 2017, the Framework also promotes a common identity, the 'Blue Pacific' identity, as a core driver of collective action in order to advance the Framework's vision.





The Framework on Resilient Development in the Pacific: An Integrated Approach to Climate Change and Disaster Risk Management (FRDP) 2017-2030^{vi} provides high-level strategic guidance for different stakeholder groups on how to enhance resilience to climate change and disasters. The Framework's three inter-related goals are: 1) to strengthen integrated adaptation and risk reduction to enhance resilience to climate change and disasters; 2) low-carbon development; and 3) to strengthen disaster preparedness, response and recovery. The FDRP also encourages Pacific countries and development partners to tackle human mobility considerations by creating targeted national policies and actions, such as labour migration policies and planned relocation.

Migration Policies in the Pacific Region

There are a number of national, bilateral and regional migration policies within the Pacific. Historical ties with Australia, New Zealand, the United States and France mean that Pacific nations have varying degrees of privileged entry.

New Zealand recognises the special relationship between New Zealand and the Pacific Access Category countries of Fiji, Kiribati, Tonga and Tuvalu. Each year, up to 250 Fijian citizens and 75 Kiribati and 75 Tuvaluan citizens are selected by ballot to be granted permanent residence. In addition, New Zealand's Recognised Seasonal Employer scheme and Australia's Seasonal Worker Programme are open to citizens of selected Pacific islands. The government of New Zealand is considering changes in its immigration policy to include climate change-induced migration, but it is unclear if this will happen in the near future.^{vii}

In the 2015 Tuvalu National Labour Migration Policy, for example, climate change is identified as one reason for increasing efforts to find labour mobility options abroad. The Policy promotes continued bilateral and regional dialogue and cooperation on labour migration to strengthen existing labour migration arrangements and develop new opportunities.

Ongoing GIZ Activities in the Four Countries

The GP HMCCC provides technical, advisory, knowledge management and awareness raising support in the four focus countries (Fiji, Kiribati Tuvalu, and Vanuatu). On the basis of in-country national consultations and regional baseline assessment results, the GP HMCCC works on the development of national policies and guidelines to institutionalise the human mobility concepts within the legal frameworks of the focus countries.

Awareness raising and knowledge sharing at national, sub-national and community level (e.g. photo exhibitions and videos) cover the areas of climate-induced human mobility and human security to explore the security dimensions of migration, displacement and relocation. To further promote socially inclusive communities, engagement methods, assessment, and gender tools are being revised to make human mobility inclusive. Through the Adapting to Climate Change and Sustainable Energy (ACSE) Programme implemented and administered by GIZ, the EU is assisting Pacific Island Countries to enhance sustainable livelihoods and strengthen countries' capacity to adapt to the adverse effects of climate change. The GIZ-led component in Fiji has supported the relocation of a district school in Lakeba, Lau province, while house-

holds in the village of Narikoso have been assisted to move to new climate-proof houses with solar-home systems. In addition, solar hybrid electric systems are being developed in three island communities. Relocation guidelines have been drawn up on the basis of experiences acquired during these relocation processes.

The Planned Relocation Guidelines – A Framework To Undertake Climate Change-Related Relocation document was

presented in 2017 at the UN climate conference COP23 and published the following year.^{viii} Complementing these guidelines, the Standard Operating Procedures (SOP) for Planned Relocation in Fiji were successfully launched in 2023.⁴

⁴ Standard Operating Procedures (SOP) for Planned Relocation in Fiji. https://fijiclimatchangeportal.gov.fj/res_topics/standard-operating-procedures-for-planned-relocation-in-the-republic-of-fiji/

The Philippines

Human Mobility in the Context of Climate Change in the Philippines

The Philippines is an archipelago of 7,641 islands with a population of more than 100 million^{ix} and ranks as one of the most vulnerable states to climate change and extreme weather events. According to the latest Climate Risk Index (CRI), the Philippines was the fifth most risk-prone country in 2018^x. The country's location in the western Pacific Ocean, within the cyclone belt and what is known as the 'ring of fire', exposes the population to the risks of natural disasters, climate variability and a barrage of extreme climatic events, including tropical cyclones (typhoons³), floods, rising sea levels and drought.

On average, 20 tropical cyclones enter the Philippine Area of Responsibility (PAR) each year^{xi}, more than anywhere else in the world. 50.3% of the total land area and 81.3% of the population are at risk from climate-related disasters. As in most parts of South-East Asia, the Caribbean and the Pacific, tropical cyclones in the Philippines have become more frequent and destructive, with an observed increase in intensity of 20 mph since 1981. Between 2006 and 2016 alone, about 65% of tropical cyclones (99) that entered the PAR made landfall^{xiii}; 10 were ranked as highly devastating in terms of the number of casualties and total damage recorded. The devastation that these climate-related hazards often leave in their wake includes loss of human life, property and livelihoods and the displacement of millions of people.

Aside from tropical cyclones, the northern part of the country has also witnessed an increase in the intensity of rainfall activity, while 40% of the country (especially the southern part) has persistently been hit by long periods of drought as a result of rising temperatures and El Niño effects. The island of Mindanao has been particularly severely affected.

³ Typhoons are tropical cyclones formed over the Northwest Pacific Ocean.

In 2015, for example, the Department of Social Welfare and Development recorded that 676,465 people were severely affected by drought in Mindanao^{xiv}. The Zamboanga peninsula was also reportedly hit by water shortages. Cagayan Province, Palawan, Iloilo and Zamboanga Sibugay are further areas identified as highly susceptible to climate-induced rises in sea level.

Overall, the complex interplay of climate change and geographic and socio-economic factors makes the Philippines highly vulnerable to climate-related events. In particular, global warming has contributed to an increase in sea surface temperatures in the northwest Pacific Ocean. As the surface water warms, the ocean gathers more energy to convert storms into devastating tropical cyclones in the region. In November 2013, typhoon Haiyan hit the region and was recorded as one of the strongest and deadliest storms to hit land. The 1-minute sustained wind surge of 315 km/h was considerably aggravated by the rise in sea surface temperatures and elevated sea levels in the region.^{xv}

The warming of the sea surface water is further compounded by an apparent sea level rise at a rate of 5-7 mm/year over the past 20 years. This is more than the global average of 2.8-3.6 mm/year^{xvi}. Recent studies have suggested that a 1-metre rise in sea level will lead to 13,134 hectares^{xvii} of seashore in 16 Cagayan towns being submerged. Yet the Philippines' lack of natural barriers, which is due in part to the morphology of the country and the loss of more than half of mangrove forest to deforestation since 1918, has further heightened its vulnerability to destructive tropical cyclones and sea water inundation across the country.

Sustained population growth and protracted conflict in the Philippines have also contributed to unregulated settlement and a concentration of populations in high-risk coastal zones, as exemplified by the significant number of casualties that were recorded in the city of Tacloban following typhoon

Haiyan in 2013. It is estimated that more than 60% of the country's population live in disaster-prone coastal zones^{xviii}.

The country's vulnerability to climate-related disasters is further exacerbated by high levels of poverty, sub-standard construction of housing and poor social infrastructure. Disasters substantially affect the economy of the Philippines: almost 5% of its GDP is lost to disasters every year. The economic impact also hampers the ability of the Government to respond adequately to disasters and enhance adaptation measures.^{xix}

Nonetheless, the Philippines has made remarkable economic progress in the Southeast Asia region with growth in GDP of 7.3% in 2010 after recording just 1.1% in 2009. But even with expected economic growth of 6.6% in 2020, vulnerability and climate change effects are likely to erode the relative gains of any economic development.^{xx} The agricultural sector accounts for about 18% of GDP^{xxi} and employs about a third of the population, so the impact on rice production and fisheries of climate-related hazards such as drought and rising temperatures could increase the risk of displacement and migration.

The extent of future climate change impacts in the Southeast Asia region remains uncertain. Moreover, migration has long been an integral part of the social life of people in the Asia and Pacific regions. Data on the expected effects of climate change on migration therefore remain unclear.

Nevertheless, the available empirical evidence on migration dynamics in the Philippines suggests a pattern of rural-rural and rural-urban migration as a coping or adaptation strategy in response to years of climate change impacts. Recent flows are marked by interprovincial migration, with a shift towards metropolitan Manila and Cebu City. Between 2005 and 2010, 2.9 million Filipinos were recorded as changing residence, of whom 50.4% had moved from one province to another^{xxii}. About 45.4% were migrants who had changed cities, and the remaining 4.2% were international migrants.^{xxiii}

Recent studies have suggested a correlation between increasing temperatures, drought and cyclones as catalysts for outmigration in the Philippines. While protracted conflict in the country may have contributed to some extent to large-scale internal migration, climate change has been identified as a catalyst for increased outmigration, especially of unskilled female agricultural labour to urban centres in search of livelihood opportunities. In particular, the climate change-induced decline in rice production has exacerbated vulnerabilities and, hence, contributed to increasing rates of outmigration from agriculture-dependent provinces. Increases have also been reported in human trafficking of displaced persons, especially women and children, in affected areas following typhoon Haiyan in 2013.

The Philippines is an archipelago of 7,641 islands with a population of more than 100 million and ranks as one of the most vulnerable states to climate change and extreme weather events

With ongoing changes in climatic and environmental conditions already manifesting strongly across the Philippines, more people will continue to be at high risk from climate-related disasters. This would exacerbate vulnerabilities and increase the number of people likely to be displaced in the near future. As a result, the country may be faced with the challenge of having to deal with an influx of rural migrants into cities and the concomitant challenges of urbanisation and congestion in informal settlements around risk-prone coastal margins of big cities. Potential mass displacement may also put a strain on the Philippine economy, as planned relocation comes at considerable cost.

Strategic action and support are therefore crucial to bolstering disaster risk reduction and adaptation measures to build climate resilience across major sectors in the country. Concerted efforts to reduce disaster risk, build climate resilient infrastructure and adaptive human settlements, and put agriculture on a climate-resilient and sustainable footing could help to reduce adverse impacts in the Philippines. Although the outflow of young people and the active population to cities presents enormous challenges to agricultural production, the increasing inflow of remittances has helped families and boosted agricultural production in many rural marginal areas.

Regional and National Policy Responses and Actions

The need to protect displaced persons and migrants has assumed wide international prominence. While some progress has been made towards addressing climate-related displacement and migration at international level, most of the existing regional and national frameworks focus on climate



change mitigation and adaptation and disaster risk reduction, with little or only indirect reference to climate-induced human mobility. Even for regional arrangements, such as the ASEAN Economic Community, which allows for visa-free movement, there is no special treatment for climate/disaster-related migrants. Some of the existing frameworks include:

Activities of the Global Programme Human Mobility in the Context of Climate Change

The GP HMCCC supports the Philippines Commission on Population and Development (POPCOM) and other relevant government stakeholders in addressing human mobility in the context of climate change. The following selected activities are currently under way or planned:

- A workshop on climate change, environment and migration in cooperation with the International Organization for Migration (IOM)
- Pilot integration of migration data into local development plans and climate and disaster risk analyses
- National comparative study on the influence on migration decision-making of access to disaster risk financing
- Scenario development workshop for wider POPCOM national and regional offices
- A study on the impacts of climate-induced risks (especially slow-onset events) on migration decisions of selected households and communities across the country.

National	*The Philippine Disaster Risk Reduction Management Act (2010)
	*Climate Change Act (Act 9729): – Provides the legal framework for addressing climate change impacts and threats to communities and the environment
Regional	* National Climate Change Action Plan (NCCAP): – Outlines the national agenda for adaptation and mitigation between 2011–2028 – Seeks to develop a long-term plan for adaptation of highly climate change vulnerable population and climate refugees
	*Association of Southeast Asian Nations (ASEAN): – Vision 2025 Agreement on Disaster Management and Emergency Response: focuses on disaster risk reduction and also response to climate change and protection of migrant workers – Joint response to disaster emergencies in order to reduce disaster losses
	*Asia Dialogue on Forced Migration: – Seeks to pursue a durable, effective & dignified approach to forced migration in the region



East Africa: Intergovernmental Authority on Development (IGAD) Region

Human Mobility in the Context of Climate Change in the IGAD Region

The IGAD region stretches over an area of 5.2 million square kilometers, comprises Djibouti, Eritrea (suspended membership), Ethiopia, Kenya, Somalia, South Sudan, Sudan and Uganda. The east African region is facing the negative impacts of an increasing climate variability. Periods of droughts are becoming more frequent and longer. Rainfall patterns are disrupted as well leading to higher probabilities of floods in certain areas. While recurring periods of droughts and climate variability have culminated in the corresponding adaptation of environmental and social systems over the years, the region remains vulnerable to ongoing global climatic changes. As most rural livelihoods and economies are highly dependent on rain-fed agriculture, it is projected that the impact of climate change will be significant in the near future. As such, this will

have dire implications for food security, health, water availability, stability, and economic development for many parts of the region.

Many east African countries like Kenya or Ethiopia have been grappling with drought-induced famines, loss of livestock due to scarcity of water and pasture as well as farmer-herder conflicts. Whilst the sustained mobility of people from one area to another has traditionally been part of the social organization and experiences of people across societies in the region, it is widely acknowledged that effects of climate change and related shocks would further increase migration, displacement and planned relocation with the potential to aggravate latent conflicts and the fragile security situation in certain parts of the IGAD region. At the same time, many vulnerable people and communities could also be “trapped”, meaning they are unable to migrate due to physical, financial, or social capa-

bilities. Many people already have low coping capacities due to high levels of poverty, fragile contexts, and the existence of various violent conflicts. Different forms of mobility are widely used as coping and adaptation mechanisms to these livelihood stressors, such as (circular) rural-urban migration and pastoralism.

Erratic rainfall leading to floods is a phenomenon regularly affecting east African countries. Flash floods occurring after long dry spells are limited to small areas such as parts of the east African highlands, often destroying the livelihood base of people affected and leading to displacement. Human activities like deforestation and land degradation as well as the establishment of new settlements in risk-prone areas such as along rivers severely aggravate the problem. Seasonal, riverine floods that occur in major rivers and deltas in arid and semi-arid regions may turn into severe floods due to heavy rainfall. They are particularly affecting pastoral communities, but also the inhabitants of cities such as for example Addis Ababa. Adaptation measures against floods are temporary relocation, migration, or the construction of drainage channels or dams.

Regional Policy Responses and Actions

In its Regional Migration Policy Framework, IGAD highlights that climate change and migration need to be addressed jointly. IGAD’s core strategies on migration and displacement are laid out in the IGAD-Migration Action Plan (IGAD-MAP). Additionally, the IGAD Protocol on Free Movement of Persons as well as Transhumance were adopted by the IGAD Council of Ministers in 2021.

The Protocol on Free Movement recognizes ‘the right of citizens of a Member State to enter, stay, move freely, study, work, establish business’ in another member state. It acknowledges various issues that drive migration and displacement and that could be alleviated through free movement, ‘including disasters, climate change and environmental degradation’. It also states that movement across regional borders could occur ‘in anticipation of, during or in the aftermath of disaster’. The Protocol includes the facilitation of the movement of persons affected by disasters (Article 16).

The first objective of IGAD’s ‘Protocol on Transhumance’ prioritizes pastoral mobility by ‘allowing free, safe and orderly cross-border mobility of transhumant livestock and herders in search of pasture and water as an adaptation mechanism to climate change and weather variability within the IGAD region’. Moreover, the IGAD Regional Strategy on Climate Change and Action Plan (2023-2030) acknowledges the effects of climate change as a driver of migration and displacement and calls for harmonized immigration policies to support migration as adaptation.

IGAD’s Protocols and other policy measures to protect transhumance and other mobile groups are in line with global policies on migration and climate change such as the Global Compact on Migration (GCM). They are also part of the region’s commitment to ‘leave no one behind’, a central promise of the UN’s 2030 Agenda for Sustainable Development and its Sustainable Development Goals.



Activities of the Global Programme Human Mobility in the Context of Climate Change

- The programme has developed an innovative modelling technique for human mobility in the context of climate change, with a focus on how slow-onset processes such as droughts for example influence migration. The partner and owner of the model – the IGAD Climate Prediction and Application Center (ICPAC) – was trained and built capacities to further use and develop this model. The activity started in 2021, based on the analysis that there is very little data and responds to the needs of the partners for a standardized methodology for modelling the impacts of droughts and gradual climate change on human mobility in the region. The model serves to broaden Member States' understanding of the impact of climate change on migration. It aims to inform early action to better prepare affected communities to avoid and mitigate negative impacts of displacement.
- In 2022, the GP HMCCC launched a study on livelihood, resilience and migration in the context of slow onset climate change in the IGAD region. The livelihood study elaborates on the impacts of droughts on the livelihoods of pastoral and agro-pastoral communities, analyzes migration decisions in response to the effects of droughts and explores activities

and policies that would increase resilience to droughts for the targeted communities. The study contains field research in which communities residing in the Kenyan and Ugandan borderland of the IGAD Karamoja Cross-Border Cluster were interviewed. The study has highlighted the cross-border effects of climate change and mobility, informing the implementation of IGAD's Free Movement Protocol and supporting disaster preparedness in border clusters.

- The management of climate-induced mobility in the region is challenging due to the complexity of the topic. A Scenario Workshop on Human Mobility in the Context of Climate Change and Disasters was conducted in May 2022 with experts from IGAD, its specialized institutions and IGAD Member States. The workshop aimed at fostering strategic thinking between various thematic fields such as climate change, human security, mobility, livelihoods such as pastoralism and possible adaptation. It resulted in the formulated need to develop capacities to access financing for preparedness action. Follow-up consultations and a workshop at the local level in the border area between Kenya and Uganda took place to better understand which traditional mechanisms to facilitate climate induced mobility, avoid and resolve conflict are in place and how national as well as regional policy can better support those.



Literature

Sendai Framework for Disaster Risk Reduction 2015-2030:
https://www.unisdr.org/files/43291_sendaiframeworkfordrren.pdf

The Global Programme on Sustainable Management of Human Mobility in the Context of Climate Change (HMCCC):
<https://www.giz.de/en/worldwide/67177.html>

WIM Task Force on Displacement:
<https://unfccc.int/wim-excom/sub-groups/TFD>

World Bank 2018: Groundswell Report. Preparing for Internal Climate Migration:
<https://www.worldbank.org/en/news/infographic/2018/03/19/groundswell--preparing-for-internal-climate-migration>

Platform on Disaster Displacement:
<https://disasterdisplacement.org/>

Global Compact for Migration:
https://refugeesmigrants.un.org/sites/default/files/180713_agreed_outcome_global_compact_for_migration.pdf

ⁱ UN Division for SDGs 2018: <https://sustainabledevelopment.un.org/topics/sids/list>

ⁱⁱ IPCC 2022, World Bank Report 2017 (<https://documents1.worldbank.org/curated/en/163081509454340771/pdf/Climate-Vulnerability-Assessment-Making-Fiji-Climate-Resilient.pdf>)

ⁱⁱⁱ UN-OHRLS: <https://www.un.org/ohrls/content/small-island-developing-states>

^{iv} IPCC 2022; IPCC SR 2018

^v Farbotko et. al 2018: <https://onlinelibrary.wiley.com/doi/full/10.1002/app5.254>

^{vi} The FRDP is developed by SPC, SRPEP, PIFS, UNDR, UNISDR and USP. See also: http://gsd.spc.int/frdp/assets/FRDP_2016_Resilient_Dev_pacific.pdf

^{vii} PCCP country overview; The World Factbook; UNU-EHS Tuvalu Report 2016; ESCAP Report 2017, New Zealand ministry of Foreign Affairs: Cabinet Paper 'Pacific climate change-related displacement and migration: a New Zealand action plan' <https://www.mfat.govt.nz/assets/Uploads/Redacted-Cabinet-Paper-Pacific-climate-migration-2-May-2018.pdf>

^{viii} Planned Relocation Guidelines - A framework to undertake climate change related relocation, Government of Fiji. <http://fijiclimatchangeportal.gov.fj/document/planned-relocation-guidelines-framework-undertake-climate-change-related-relocation>

^{ix} National Mapping and Resource Information Authority (NAMIRA) 2017

^x Climate Risk Index 2018: <https://germanwatch.org/sites/germanwatch.org/files/publication/20432.pdf>

^{xi} Pagasa 2019: <http://bagong.pagasa.dost.gov.ph/climate/tropical-cyclone-information>

^{xii} World Bank 2008: <http://siteresources.worldbank.org/INTPHILIPPINES/Resources/PhilippineCEACC1July.pdf>

^{xiii} UN OCHA 2017: https://reliefweb.int/sites/reliefweb.int/files/resources/ocha_phl_destructive_typhoons_2006_to_2016.pdf

^{xiv} Acaps 2016: <https://reliefweb.int/sites/reliefweb.int/files/resources/b-philippines-drought.pdf>

^{xv} Trenberth et al 2015: http://centaur.reading.ac.uk/40583/1/Attribution%20climate%20extreme%20events_R9_ss.pdf

^{xvi} Kahana et. al 2016: http://www.precisrcm.com/DFID_Philippines_Reporting/Philippines_Sea_Level_Report_Oct_2016.pdf

^{xvii} Fernandez 2009: <https://www.philstar.com/business/agriculture/2009/07/26/489794/cagayan-most-vulnerable-sea-level-rise-uplb>

^{xviii} DENR, DA-BFAR & DILG 2001: http://www.oneocean.org/flash/the_philippine_seas.html

^{xix} The Guardian 2013: <https://www.theguardian.com/commentisfree/2013/nov/08/typhoon-haiyan-rich-ignore-climate-change>

^{xx} World Bank 2018: <https://www.worldbank.org/en/country/philippines/publication/philippines-economic-update-investing-in-the-future>

^{xxi} Office of the President of the Philippines. Climate Change Commission: http://www.neda.gov.ph/wp-content/uploads/2013/10/nfsc_sgd.pdf

^{xxii} UNESCO: <https://bangkok.unesco.org/sites/default/files/assets/article/Social%20and%20Human%20Sciences/publications/Brief07-Country-Brief-Philippines.pdf>

^{xxiii} Philippines Statistics Authority 2012

