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Author: Mr. Aurélien Sacotte
The Netherlands

EARTH OBSERVATION PROGRAMME: CLIMATE CHANGE RISK IMPACT, HUMAN IMPACT AND STRATEGIES.

Abstract

Climate Change impact assessment, relying on Earth Observation Programmes (EOPs) and applications, has to be measured from different perspectives, including the detection of early warning signs of conflict, environmental disasters, and monitoring population displacement. Earth Observation data are provided by a wide range of satellites, which, beyond helping to develop estimations based on observations, can provide a wide range of data for the understanding of push and pull factors related to climate change's impact on communities, while helping to quantify the potential displacement of population. EO data can represent a viable option for the conjuncture of new means of governance and projections for climate change mitigation. In this context, climate change risk impact assessment can outline new bridges between Migration studies and Space Governance, thus, potentially creating a refreshed room for policy recommendation, strategies and a renewed interest in none-governmental and governmental industries. This paper will analyse three time scales: (i) the short, (ii) the medium, (iii) and the long term approach. A risk assessment due to climate change impact can be proposed from a top-down and bottom-up multi-level approach, using the SDGs as a pillar for analysis. Such research is framed as sustainable, inclusive and equitable policy scenario development for climate change risk mitigation. It will be argued that a regime change in the governance for the human impact of climate change has to be developed, while relying on space means. Shaping Earth Observation resources as a strong research asset for the understanding of climate change risk impact, human impact and strategies. Working towards an accessible global policy regime corpus for the governance of climate induced migration.