

Tracking spatial – temporal trends in water quality of water pans in the ASAL landscape. Collaborative research with University of British Columbia, Canada.

In collaboration with Prof. Sarah Gergel and Sammy Al-Khalifa, Maasai Mara University researchers Prof Romulus Abila, Dr. Samson Mabwoga and Raphael Simo are using in situ and satellite image based techniques to track Spatio temporal changes in water quality in water pans in arid and semi arid Narok landscapes. Findings from this study will be presented during the 2023 International Association of Landscape Ecology Conference to be held in Nairobi in July 2023 (<https://www.landscape-ecology.org/World-Congress>,). Prof. Erica Smithwick will visit and present a workshop at Maasai Mara University 16th – 20th July 2023.

Investigating climate and human induced landscape regenerative capacity in Narok ASAL socio-ecological systems.

In collaboration with Prof. Erica Smithwick and Susan Kotikot of The Penn State University, USA, Maasai Mara University researchers Prof. Romulus Abila and Dr. Jedidah Nankaya are involved in a research examining landscape regeneration in the arid and semi arid Narok landscape in light of changing human population dynamics, land use changes and climate change. Using a suite of statistical approaches including the self-organizing maps (SOM) and wavelet analysis to explore spatial patterns of rainfall anomalies and quantify the time domains of rainfall variability. The study also integrates indigenous knowledge and local experiences and perceptions of climate change. Findings from this study will be presented during the 2023 International Association of Landscape Ecology Conference to be held in Nairobi in July 2023 (<https://www.landscape-ecology.org/World-Congress>,). Prof. Sarah Gergel will visit and present a workshop at Maasai Mara University 16th – 20th July 2023.

