# Satellite and Weather Information for Disaster Resilience in East Africa (SAWIDREA)

Hydro-meteorological hazards account for 90% of natural disasters in East Africa region. Climate change is predicted to increase the intensity and frequency of these hazards. SAWIDREA works to mitigate the impact of these hazards by building regional and national capacities in severe weather early warning systems.



## Early warning of Severe Weather

Numerical Weather Prediction for early warning of extreme weather events like tropical cyclones, wind storms or heat waves.



## Disaster Risk Management (DRM)

Weather and flood forecasting to support early warning systems for DRM activities in the region



#### **Mutual Learning with NMHSs**

Actively engage NMHSs in production of weather services information at national level



#### **Hydrological Modelling**

Hydrological modelling of flood prone catchment areas and operational flood forecasting.



#### **Infrastructure Capacity**

Provide NMHSs with

- High capacity computers
- Power storage UPS
- Remote access to ICPAC's HPC cluster



#### **Climate Outlook Forum**

Support to regional Climate Forums as a platform for disseminating Climate Information and improve contingency planning.



## Capacity Building on NWP

**Enhance capacity of National** Meteorology and Hydrological Services (NHMS)

- On-the-job training
- Training of Trainers



#### **RARs Station**

Install a RARs (Regional Advanced Retransmission Systems) station to receive satellite data to be assimilated into Numerical Weather Prediction for improving the weather forecast.





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