



Ministry of Environment, Water and Climate

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**Department of Water Resources Management &
Planning**

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About

Roles in Flood Monitoring

Flood Monitoring Activities

Challenges

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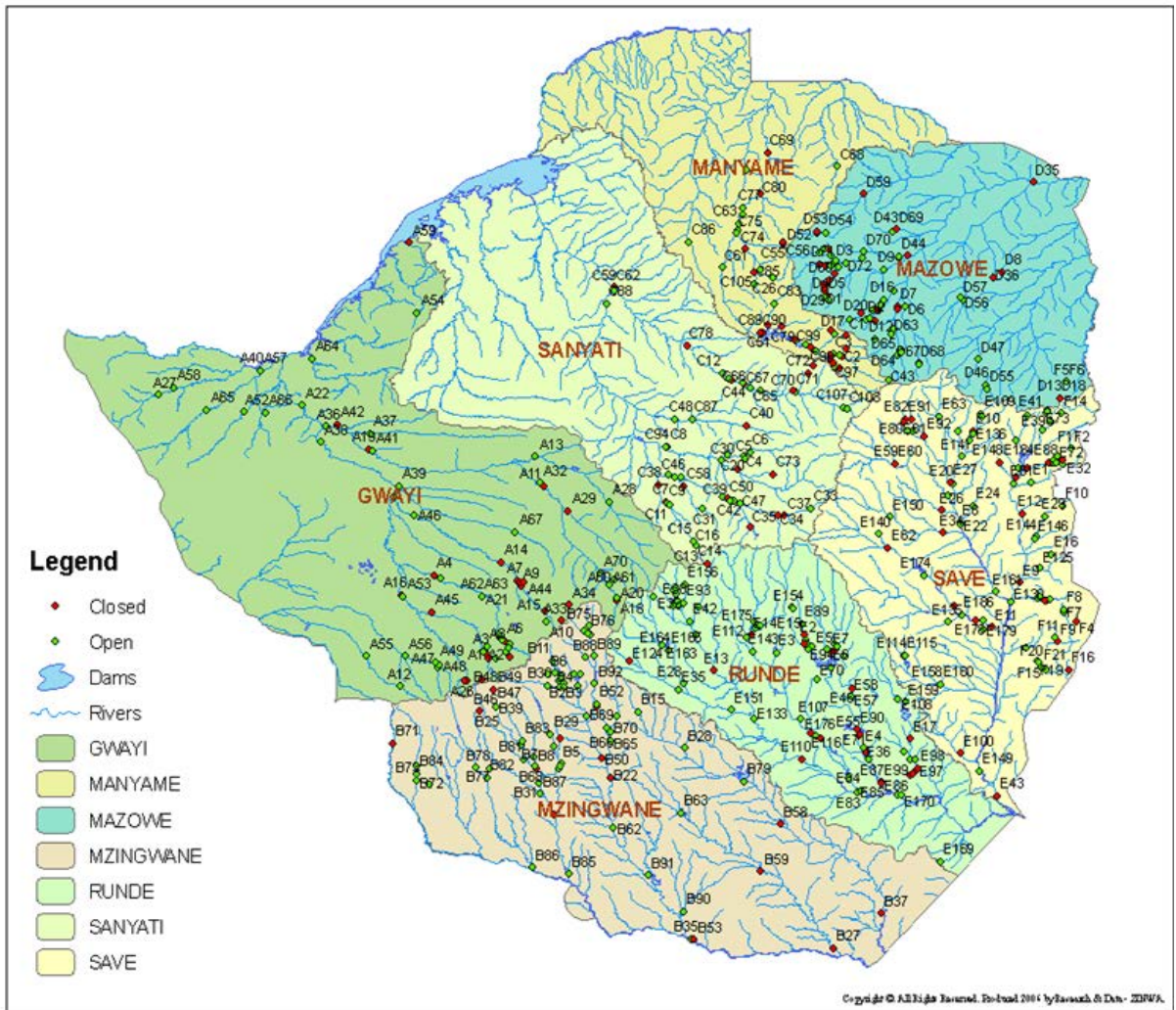
Roles in Flood Monitoring

- Monitoring the flood hazard and update the Department of Civil Protection
- Monitoring of river flow and dam levels
- Dam safety monitoring
- Production and dissemination of flood bulletins nationally and internationally(daily during the rain season and weekly in the dry season).

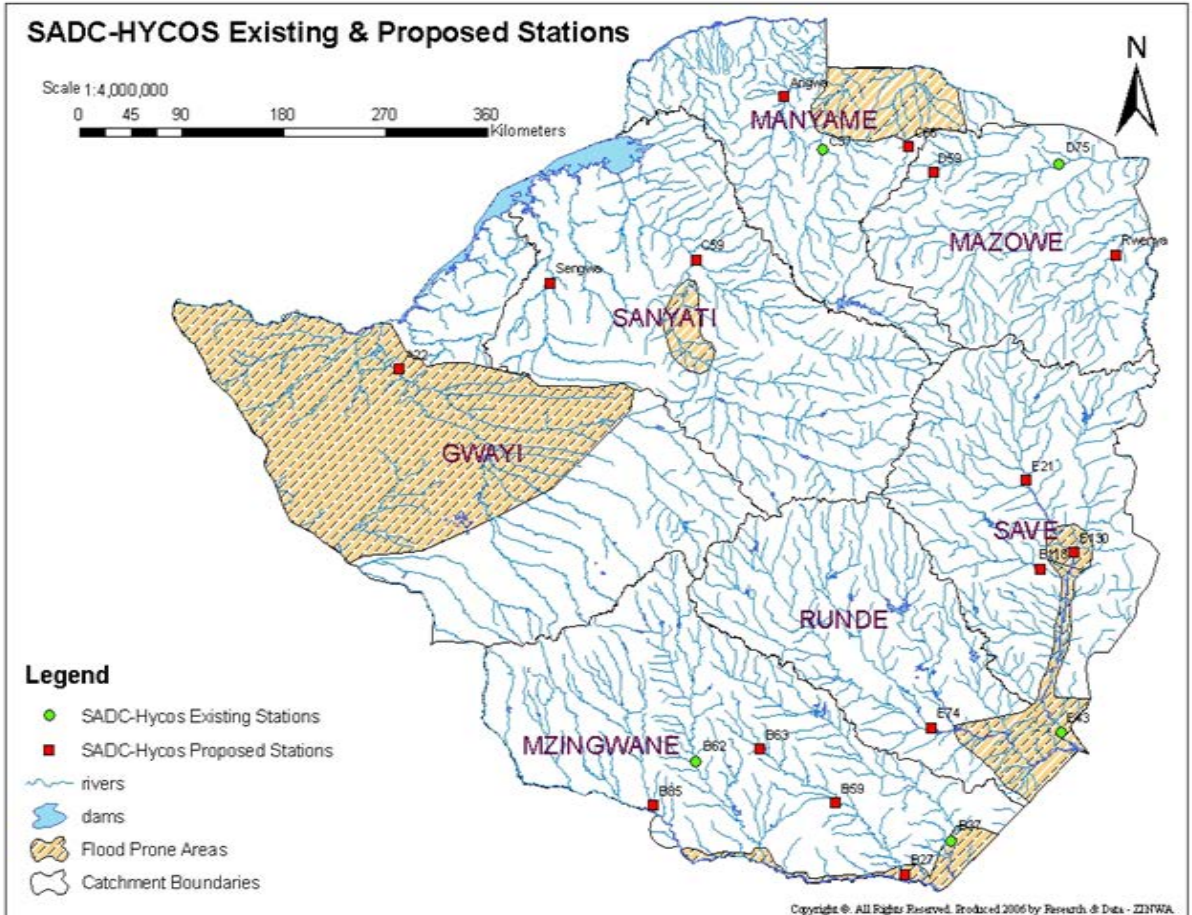
Flood Monitoring Activities

- Information/update reports produced are sent to the Department of Civil Protection (DCP) daily/weekly and on ad-hoc basis through emails.
- Bi-monthly/ad hoc National Civil Protection Committee meetings are held at the DCP.
- Mainly communication is through telephones and emails. NB the update reports sent to the DCP are also copied to relevant departments

River flow monitoring network



Real Time Stations



Dam levels Monitoring



Reports

- ❖ Contents
 - Overview of the rainfall activities across the country
 - Catchment specific updates on river flows, dam levels and chances of flooding in the flood prone areas
- ❖ Target users
 - All civil protection players within the country, flood prone communities and the general public
 - Riparian countries or communities; RBOs and disaster managers
- ❖ Frequency
 - Daily during the rain season & weekly in the dry season

Reports

- An operational manual for the management of floods derived from the existing National Civil Protection plan and lessons learnt from Cyclone Eline, It covers early warning and preparedness issues and is based on the assumption that each sector will actively enforce its regulatory mechanism and maintain high standards to minimize risk and reduce vulnerability in the different spheres of their operations.

Reports

- Flood hazard maps but need updating
- Satellite based maps (WOIS)
- Hydrological Bulletins/Daily & weekly forecasts
- State of Major Dams Reports

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- Data scarcity.....a major challenge in coming up with a forecast especially in ungauged areas or zones;
- There is need for automatic weather observing systems in ungauged zone;
- Very few Real Time Stations;
- No flood forecasting model;
- Lack of public awareness and education;

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- Enforcement of the civil protection legislation has shortfalls;
- Inadequate and centralisation of rescue equipment, manpower and financial resources;
- Structural organisational gaps in the management of disasters;
- Decision making and information flow has tended to be bureaucratic.

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- Poor communication networks with the vulnerable communities;
- The country still require proper inundation maps;
- No formal agreements on exchange of flood related information among riparian states;
- Lack of appropriate strategy for flood plain management.

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Thank You