Ministry of Agriculture water and Forestry Water Affairs Department Directorate of Resource management Division: Hydrology

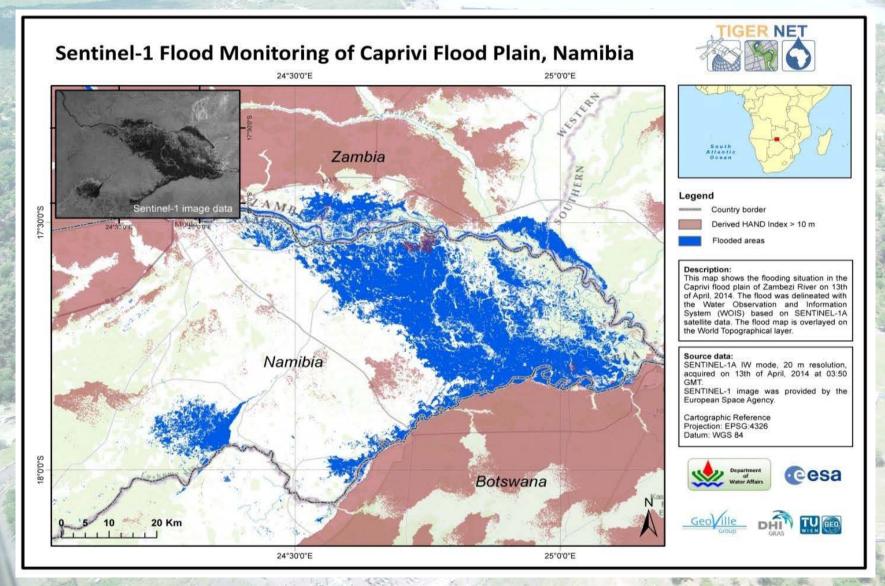




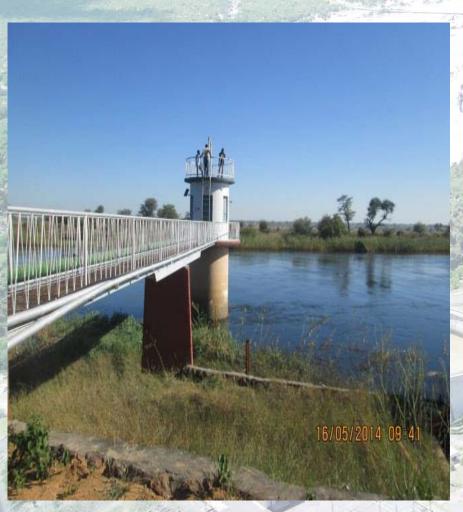
Flood Forecasting system

- Satellite products
- > TRMM, MODIS, ESA Sentinel 1A
- > G-WADI & NASA SensorWebs among many others, to monitor floods and the rainfall potential from convective clouds
- Platforms that aid in indirect monitoring of flow widths such as JRC GDACS, or in direct monitoring of flow widths with conversion to water levels/discharge such as ESA's TigerNet WOIS are utilised for flood warning purposes.
- > After analysing these products together with in-situ data when available, a daily flood bulletin is compiled.

ESA TIGER- NET WOIS



Monitoring Station



- · Telemetry
- · Gauge plate
- · SADC-HYCOS
- Rain-gauges: manual
 & automatic
- Mini-Orpheus & Thallimedes

Dissemination to user

- Daily flood bulletin
- NASA's Namibia Flood Dashboard
- Media's

User's

- Local communities
- OPM
- Farmer's
- Regional council

Challenges

- · Coordination among stakeholders
- Gaps in the data: hinders effective modelling, calibration of systems
- · Inadequate staff
- · Curb vandalism
- · Poor maintenance of certain stations
- Need for proper surveying of the gauging instruments & training
- Lack of involvement of community members in hydrological investigations and monitoring.