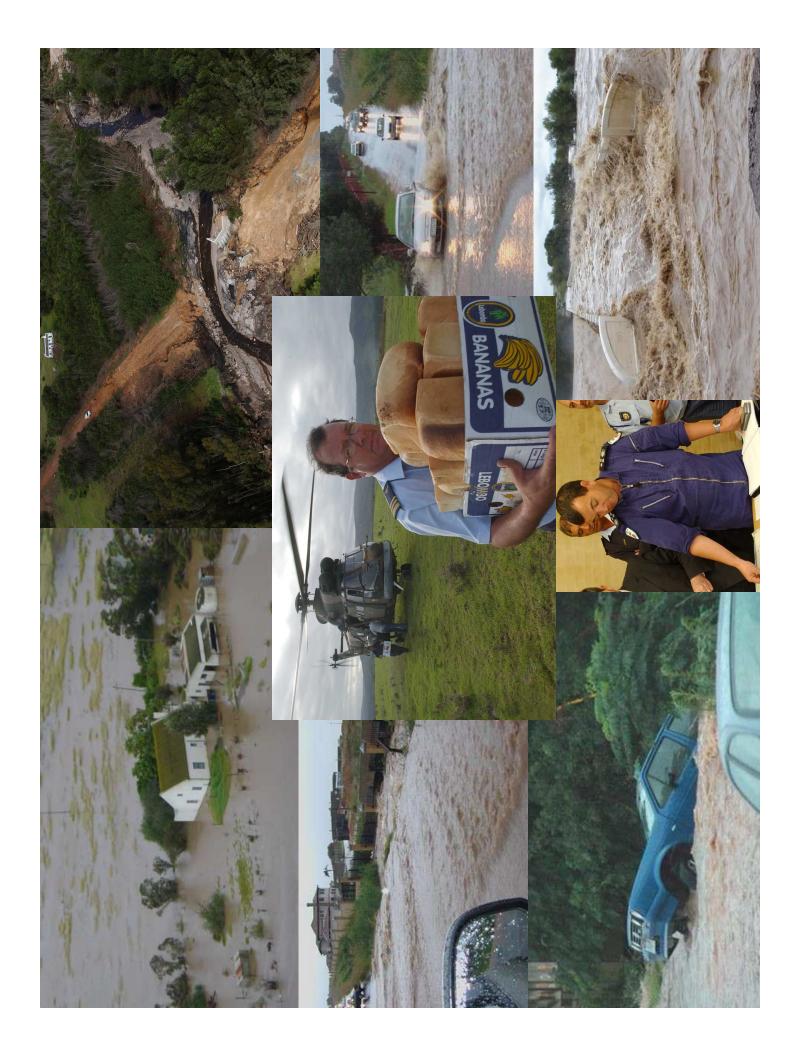
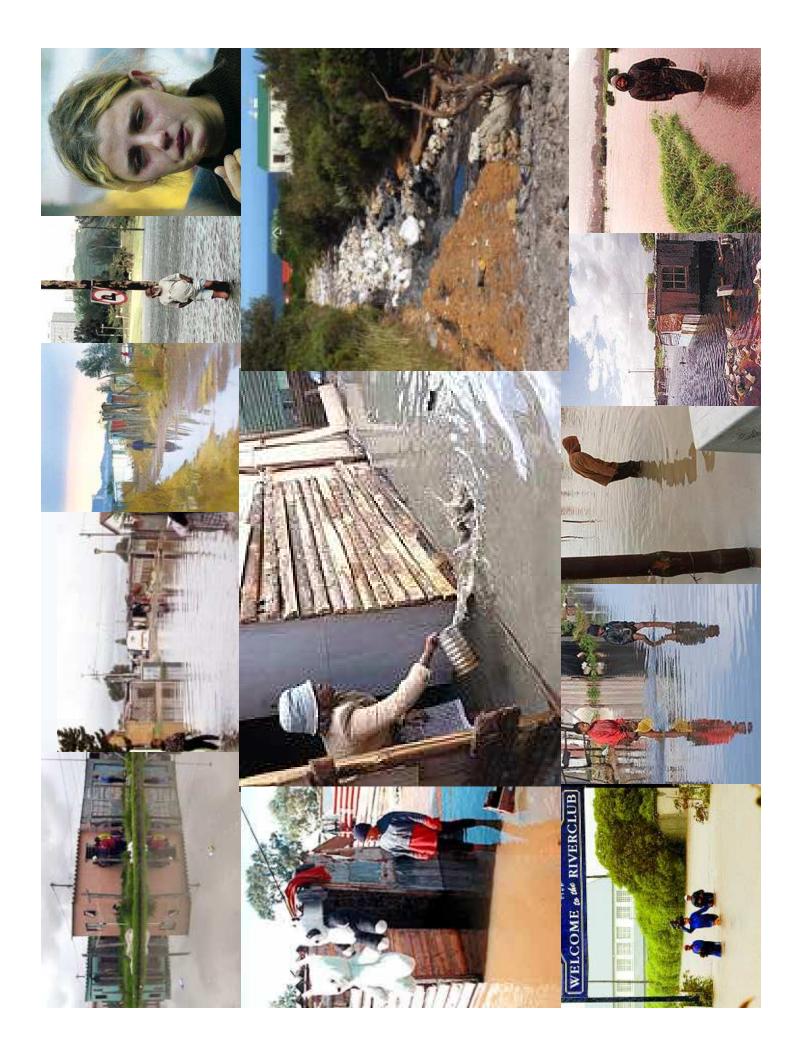
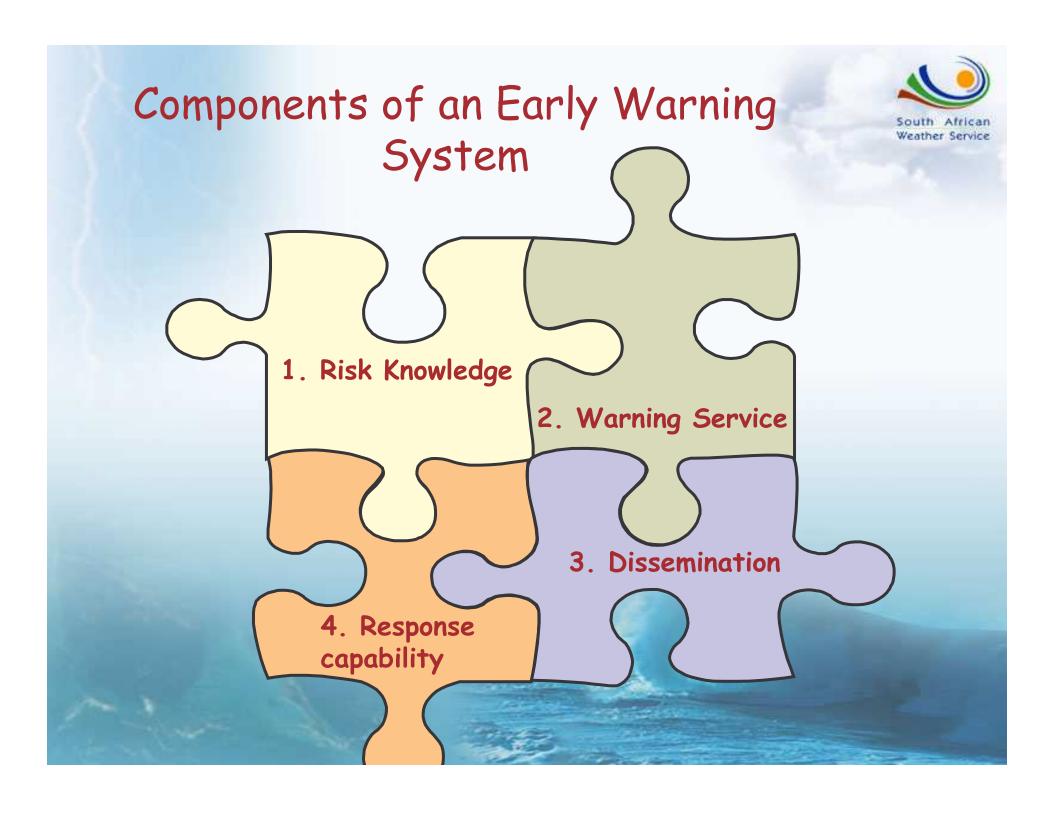


Eugene Poolman South African Weather Service



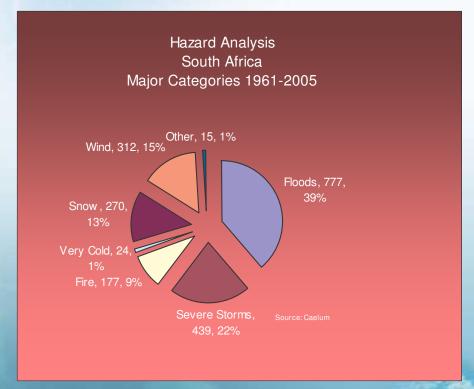


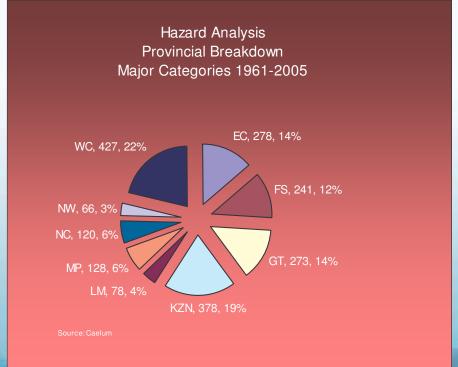






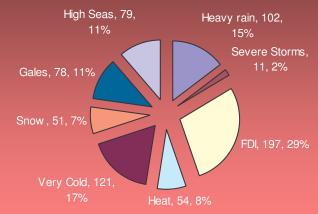
1. Risk Knowledge: General Hazard Analysis

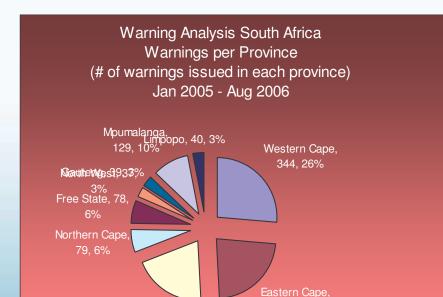






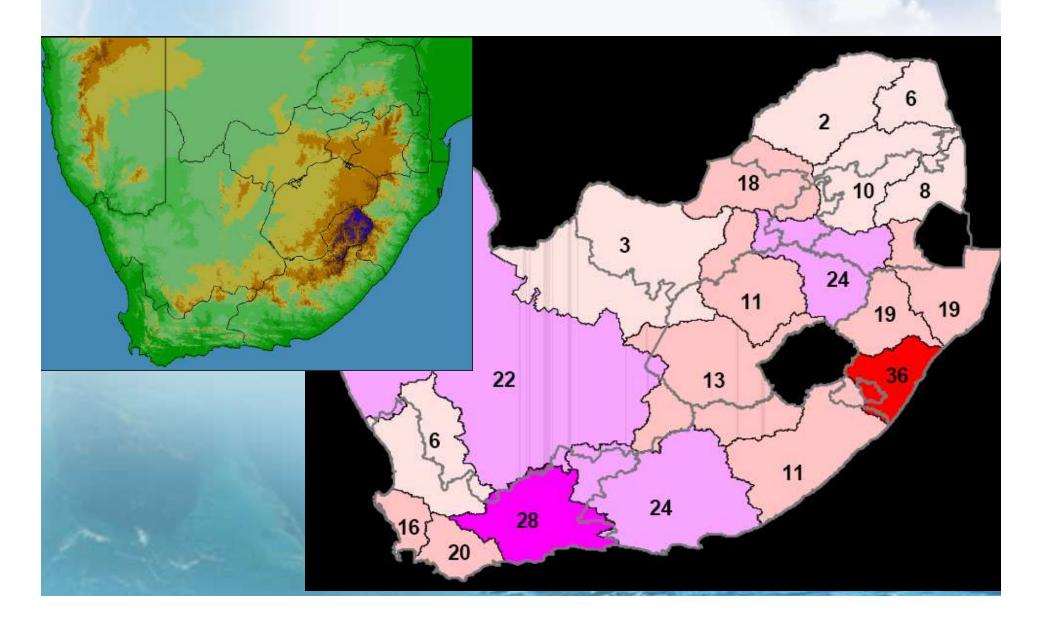








Number of Floods per Water Management Area 1800 - 1995





- SAWS is involved in all phases of disaster risk management:
 - From prevention, preparedness to response and even recovery
- DM and SAWS Acts specifically defines the role of the SAWS as the sole provider of weather related warnings in SA

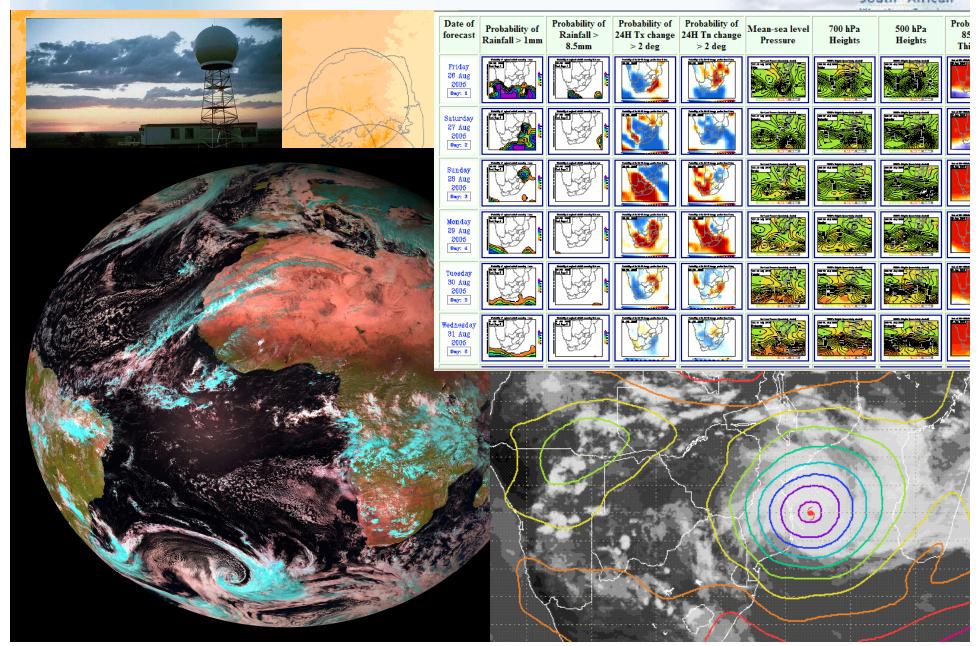


Recent Developments in EWS at SAWS:

- Observations:
 - Meteosat 8, radar network, lightning detection network
- Forecast tools:
 - New weather prediction models, workstations
- Extending the forecasting range:
 - Seamless forecasting
- Forecasting practices:
 - Coordination between forecasting offices

Developments in Science and Technology





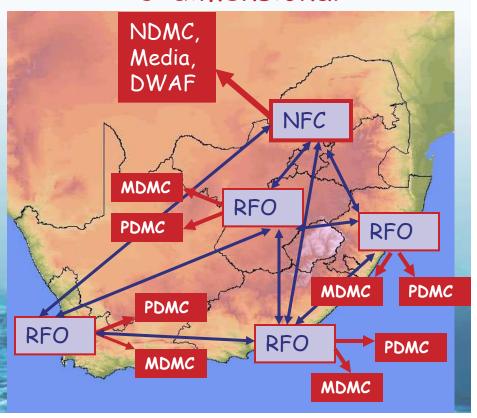
Development in Forecasting Coordination



- Within communications loop before, during and after severe weather events
- Attending national and provincial DM Advisory Forum meetings
- Direct contact between forecasters and disaster managers
 - Before and during
 - "Wash out" meetings afterwards
- Members of DMISA
 - Attend conferences
 - Participate in workshops
 - Give presentations
- Forecast offices involved in community outreach within their regions

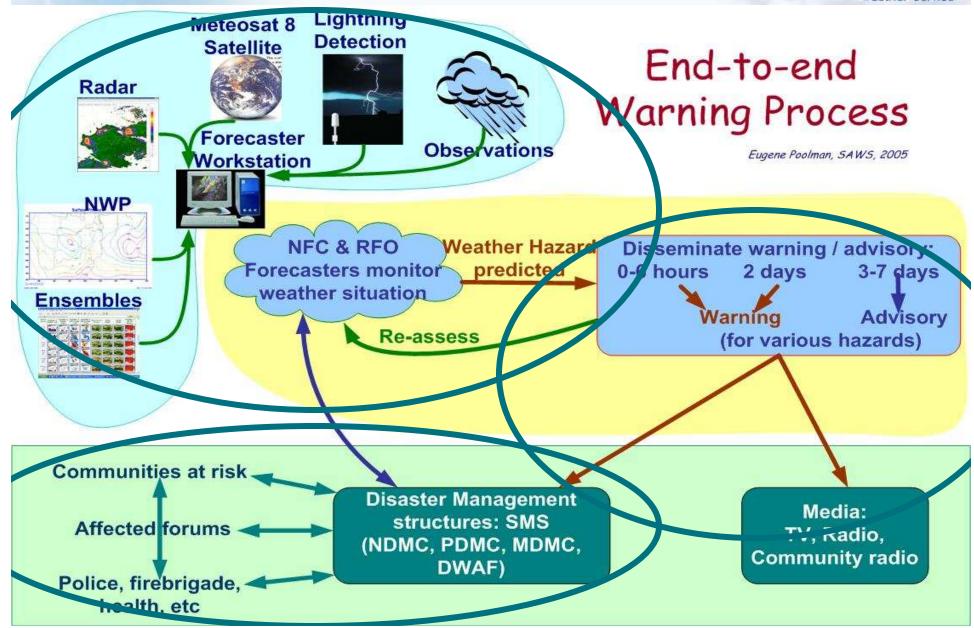
2005

3-dimensional



3. Warning Dissemination







Challenges to Early Warning Service for Flash Floods





- Current flash flood warning: "..heavy rain expected with potential for flash floods...." (no idea about hydrological response)
- Need for a rainfall & hydro based FFG system to determine areas in danger
- Integration with Disaster Management Centers
- Communication of warnings to communities at risk

SUMMARY



- There were tremendous developments in all the components of the EWS recently
- EWS is a crucial component in disaster management
- An excellent nowcast is useless if a warning was not issued timeously to communities at risk
- Strong partnerships between all role players!
- · Enhance EWS = flash flood warning system