

# Water Quality Modelling Salinity Modelling

*Maintenance of the Crocodile West River System  
Reconciliation Strategy Study*



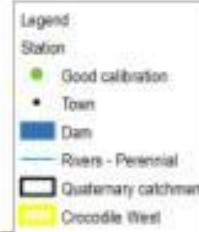
# Presentation Contents

- Location and extent of sub-systems modelled
- Calibration results for Upper Crocodile
- Calibration results for Elands
- Calibration results Apies Pienaars
- Conclusions

# Sub-catchments modelled



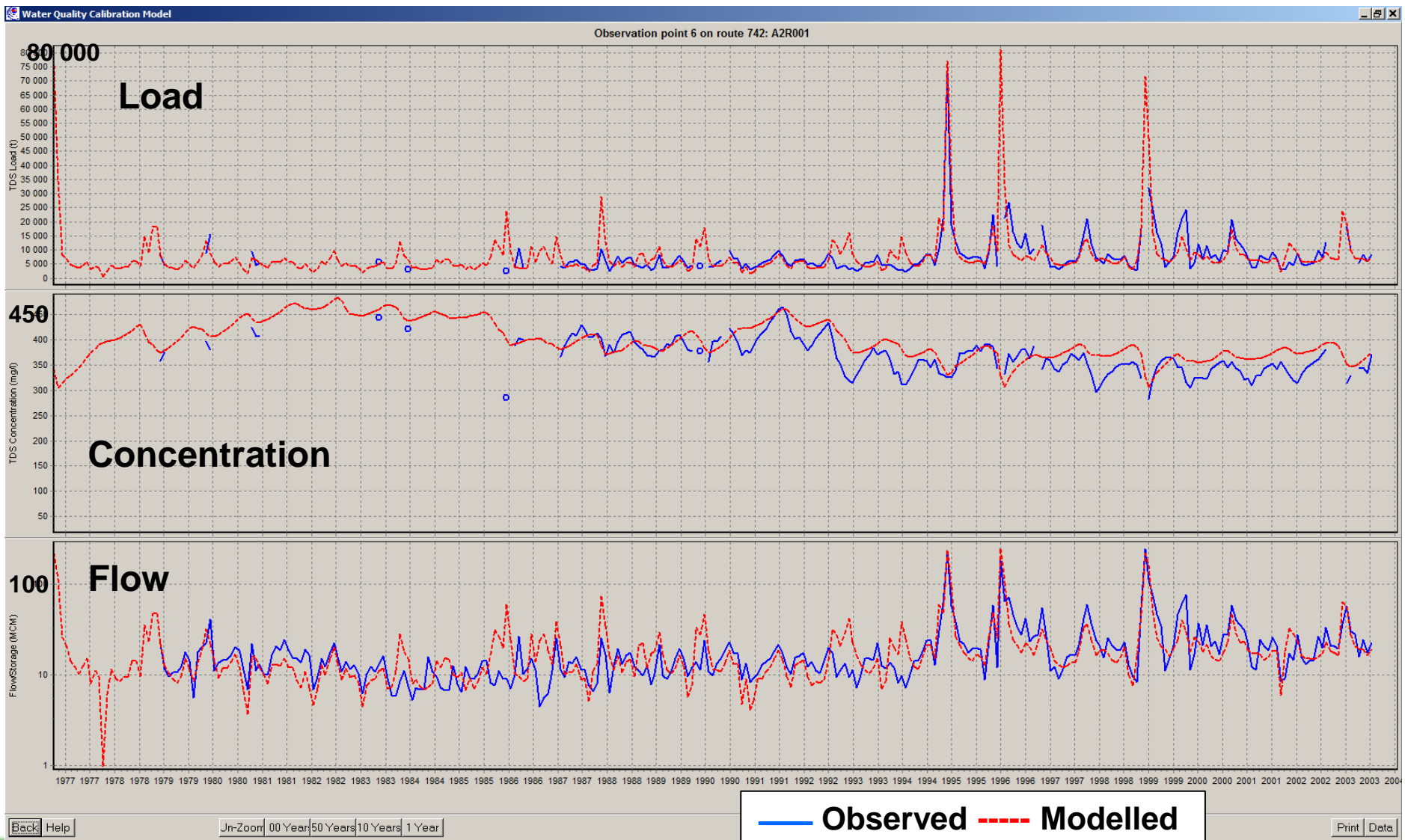
- Legend
- Town
  - Dam
  - Rivers - Perennial
  - Crocodile West



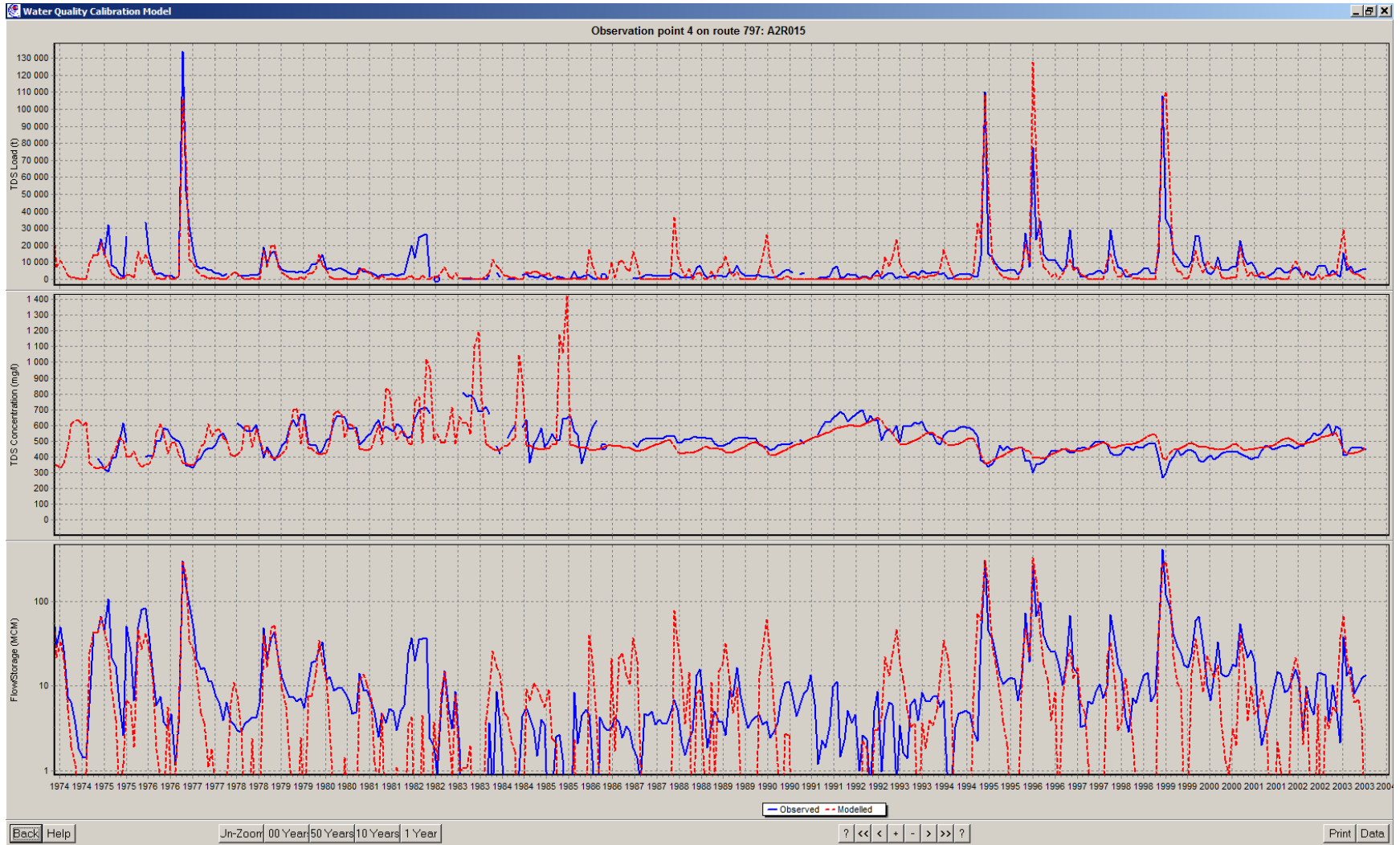
© 2005 The Authors  
Journal compilation © 2005 Blackwell Publishing Ltd



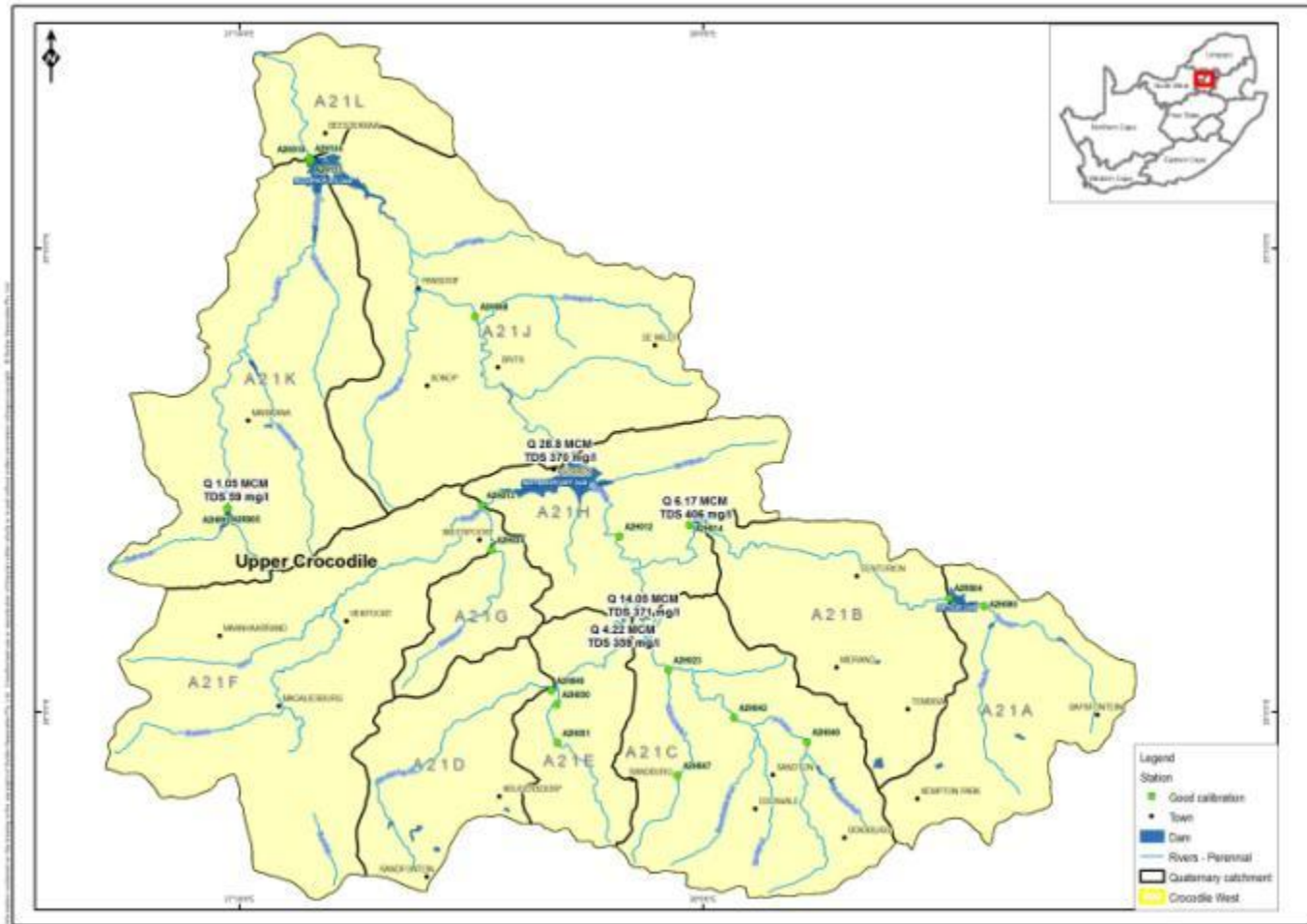
# Hartbeespoort Dam



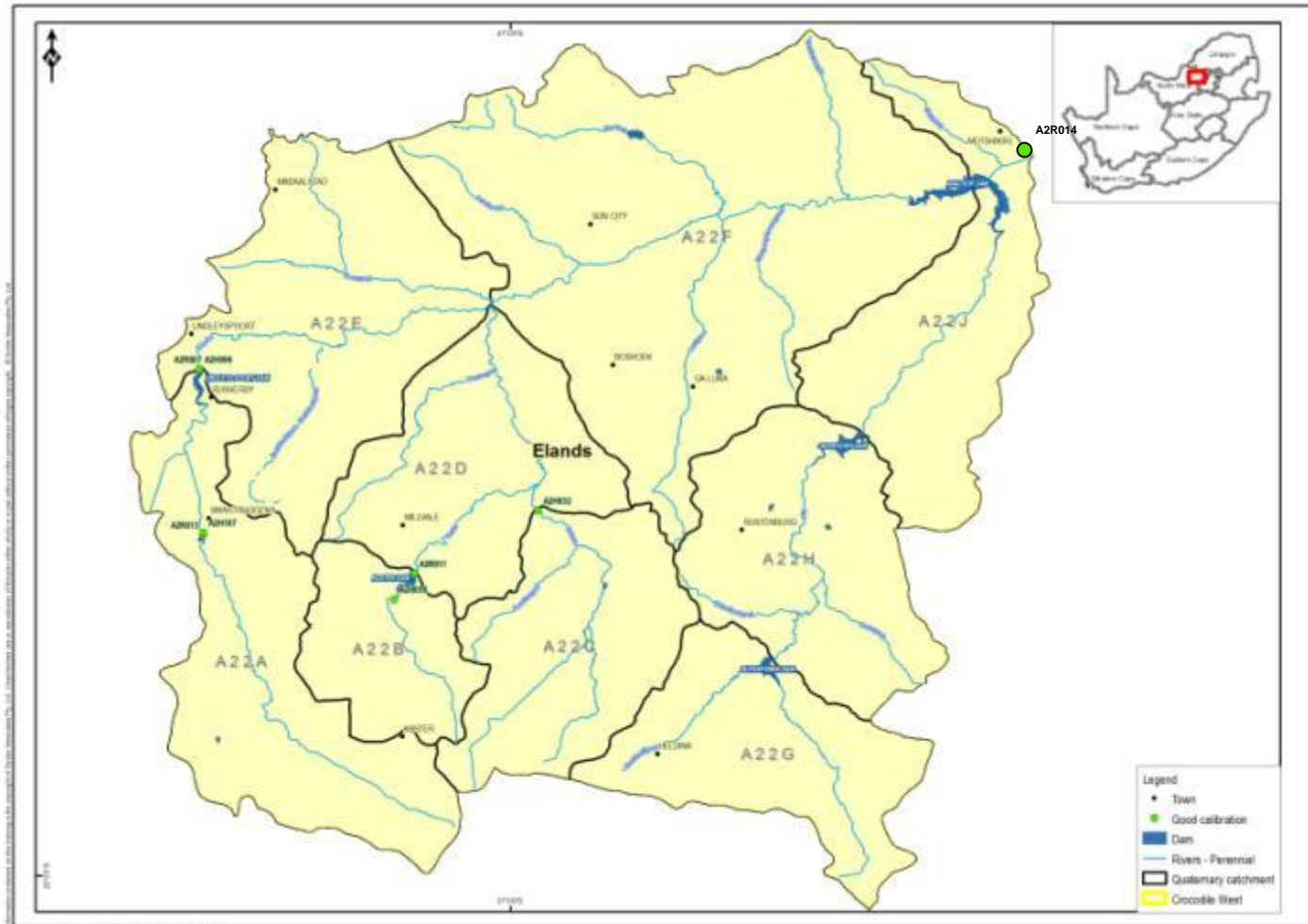
# Roodekopjes Dam



# Upper Croc sub-catchment

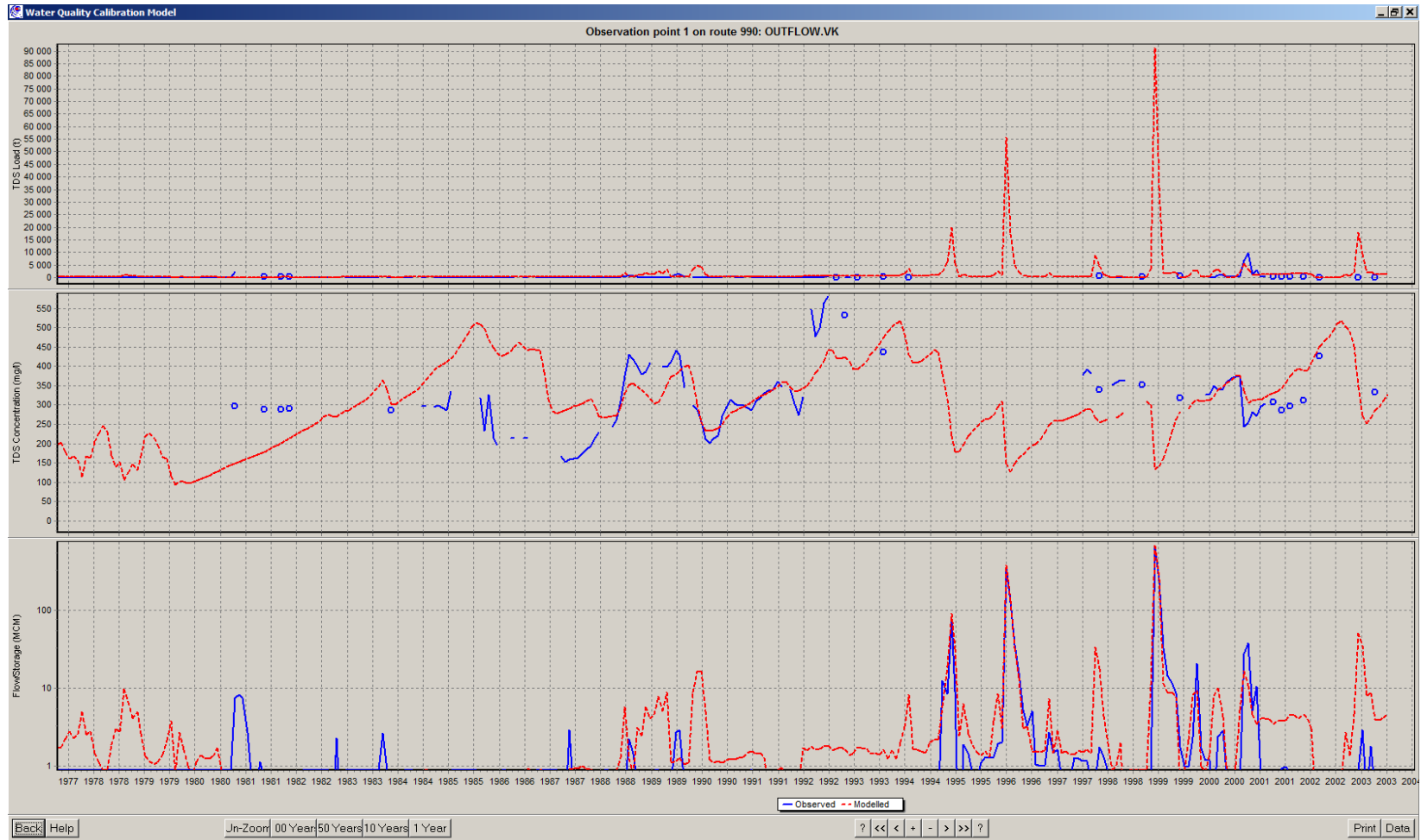


# Elands sub-catchment

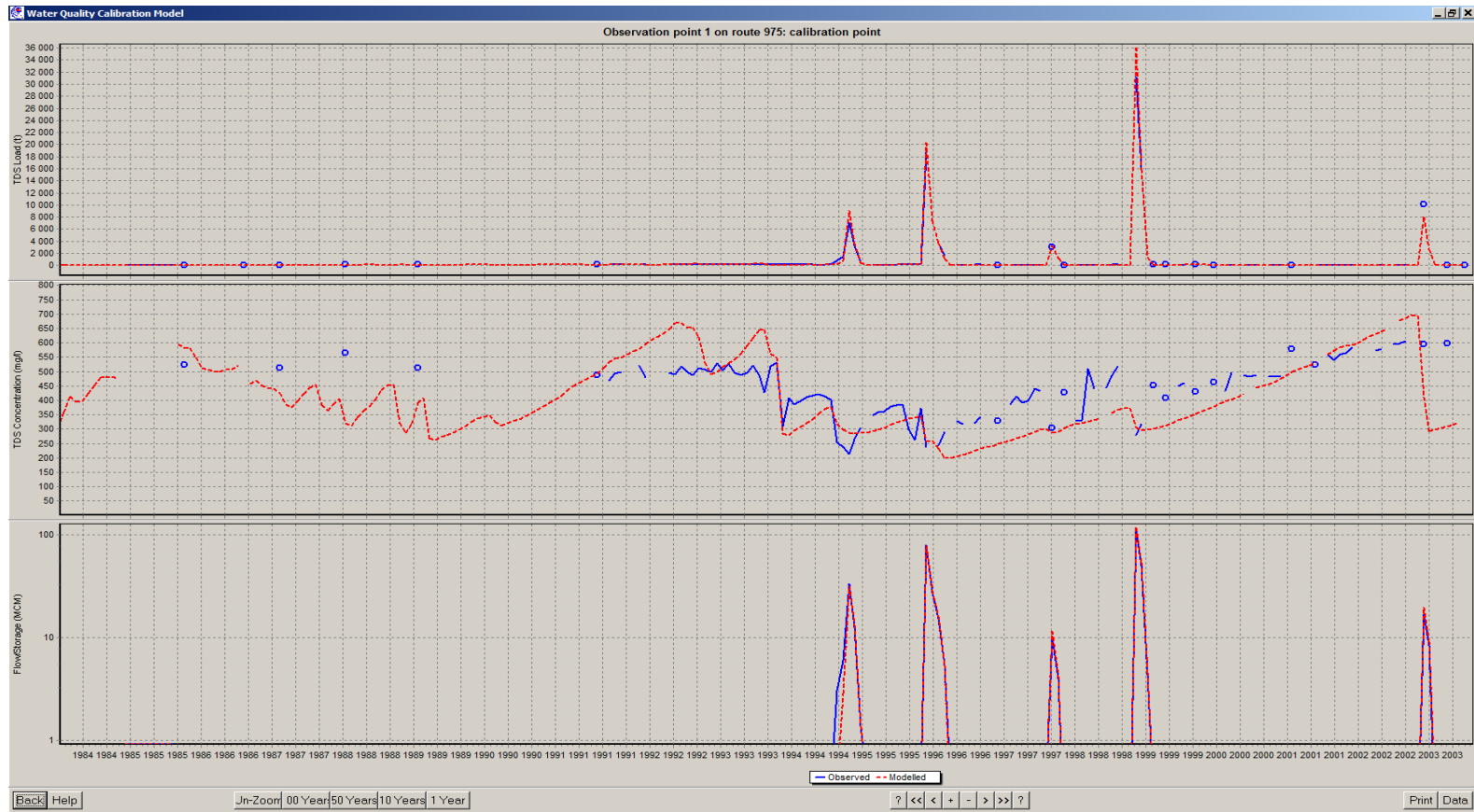




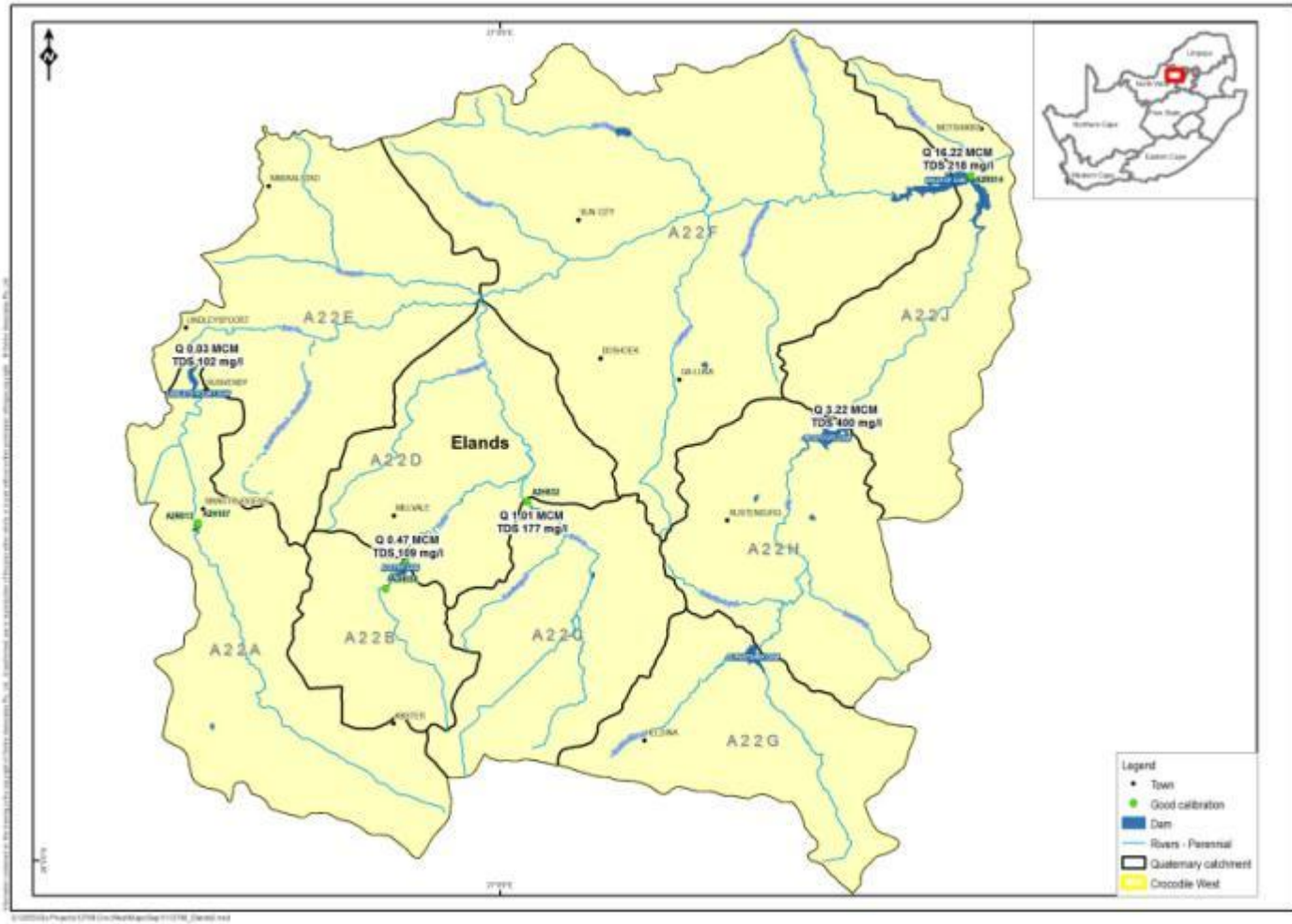
# Vaalkop Dam



# Bospoort Dam



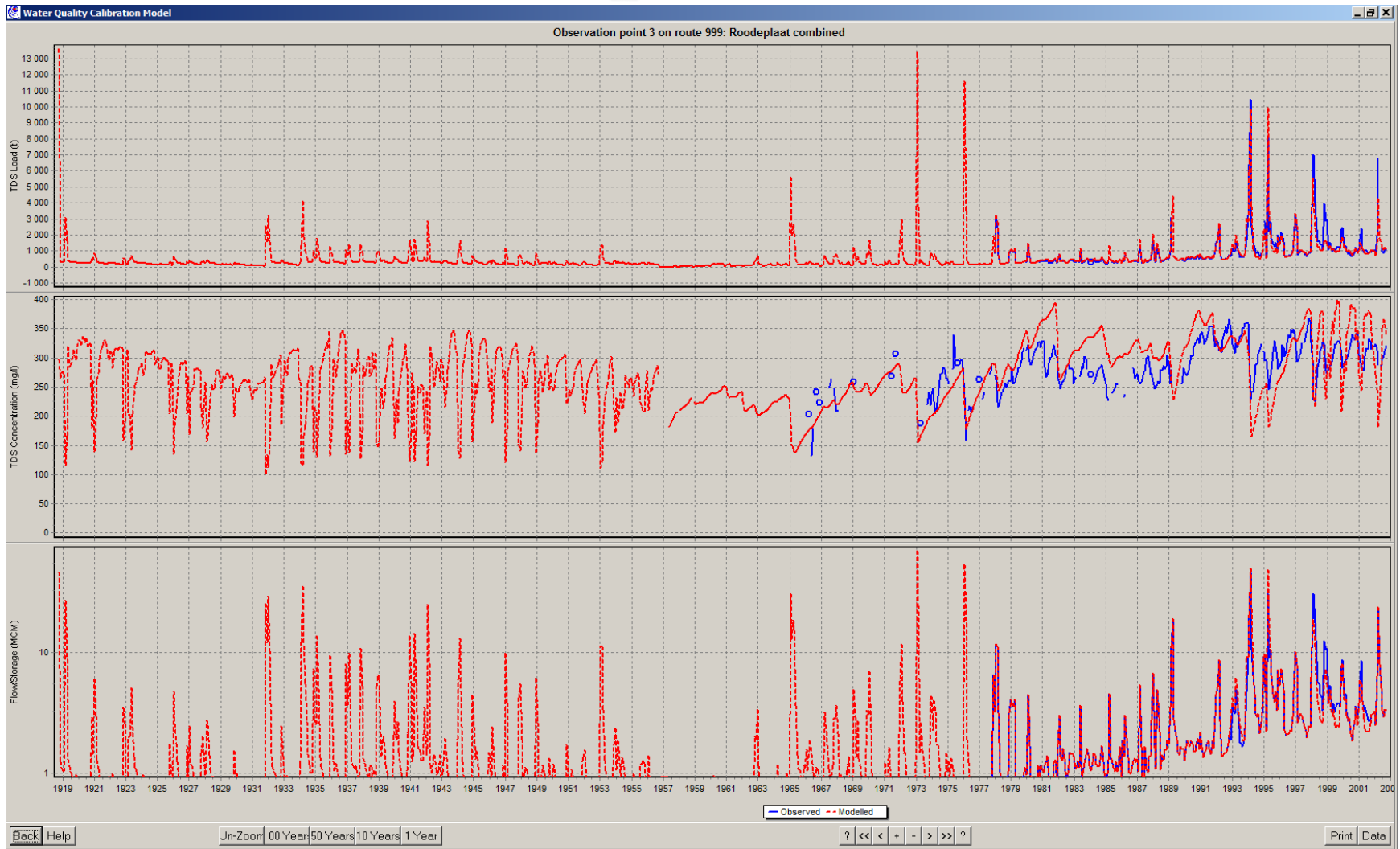
# Elands sub-catchment



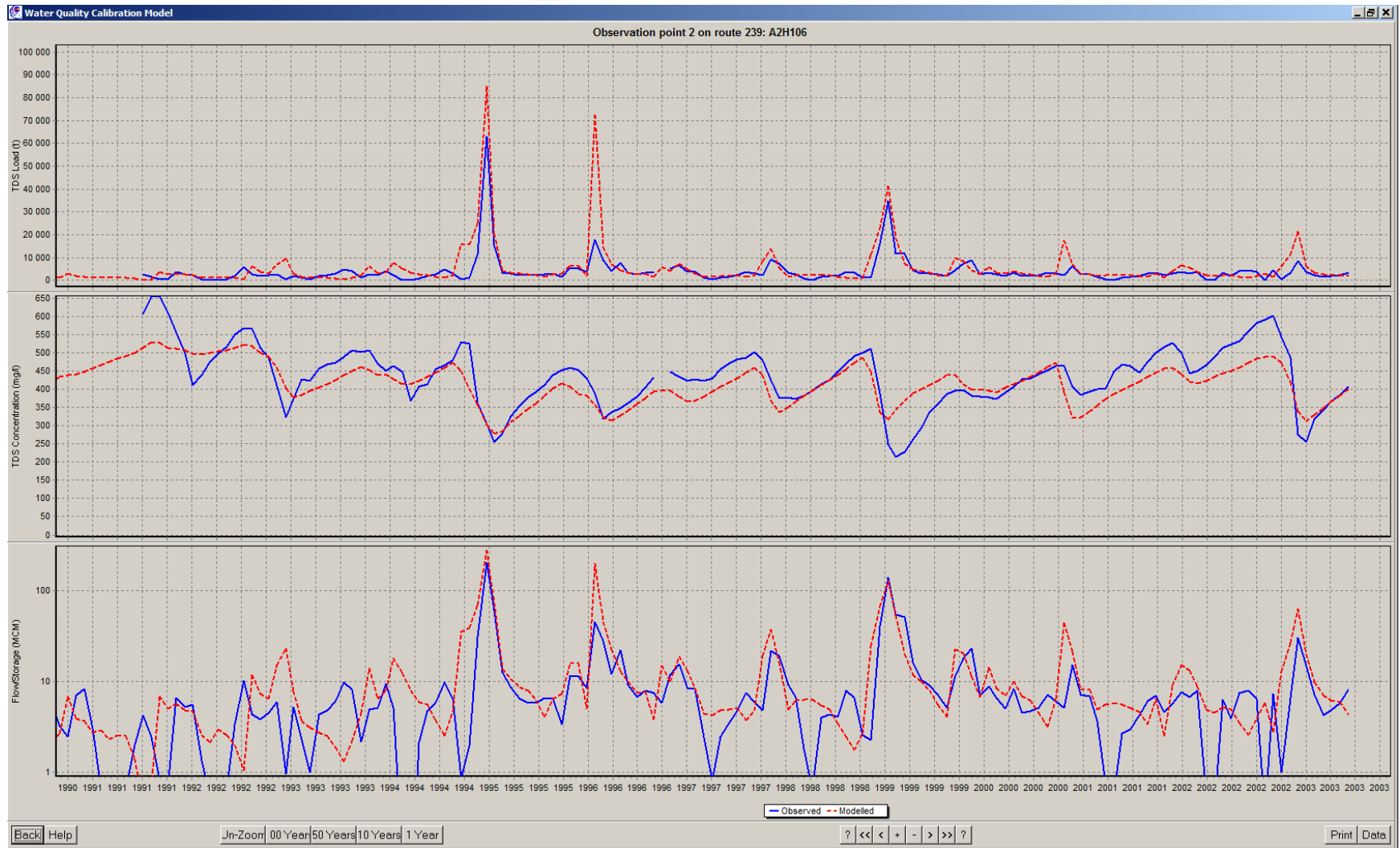




# Roodeplaat Dam



# Klipvoor Dam





# Conclusions

- TDS concentrations Apies Pienaars and Upper Crocodile defined by return flow volumes and qualities – Effluent data on volumes and qualities is poor
- Despite data shortcomings - reasonable calibration of model achieved
- Next step - calibrate Lower Crocodile and finalise report