

CLASSIFICATION OF SIGNIFICANT WATER RESOURCES IN THE OLIFANTS/DOORN WATER MANAGEMENT AREA

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Dana Grobler and Toni Belcher



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What is the purpose of classification

- Ensuring **long term** sustainable use of the water resources
 - Quality and quantity
- Bring regulatory certainty
 - Facilitate decision making
- Provide framework in which goals (objectives) can be set to measure regulatory performance and compliance (project already initiated)
 - Quality
 - Quantity
 - Habitats
 - Biota



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What do we need to consider to prepare for classification (1)

- **Ecological:**

- Present Ecological State (PES) of the catchment (Category A – E)
 - Quaternary scale
 - 2011 updated PES data (compared with 1999 data)
- Freshwater Ecosystem priority areas (FEPA)
 - 2011 draft Atlas
- The ecological Reserve (historic approved Reserve determinations)
 - 2008 approved Reserve for the catchment



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What do we need to consider to prepare for classification (2)

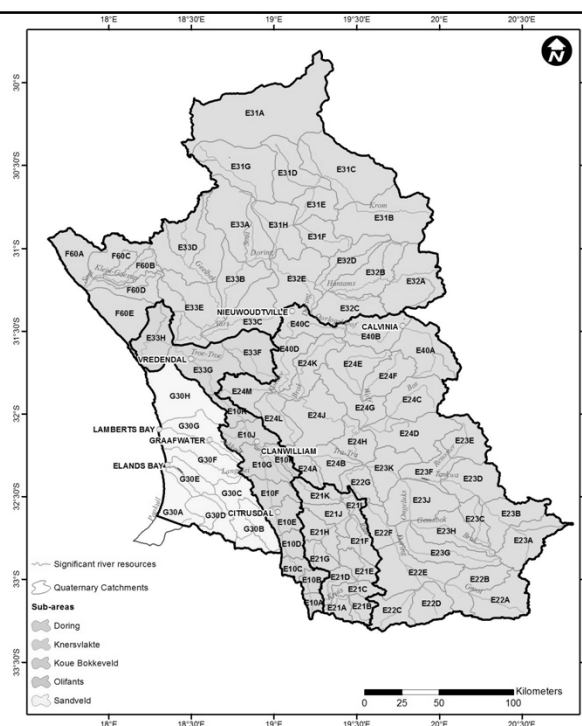
- **Hydrology (Flow):**

- **Natural flow**
 - Generated from rainfall data
 - WR2005 (updated WR90 data)
 - Raising of Clanwilliam dam hydrology study
 - Quaternary scale
- Approved ecological Reserve (flow component)
- Balance in the catchment for supplying the flow through the catchment
- **Present day flow**

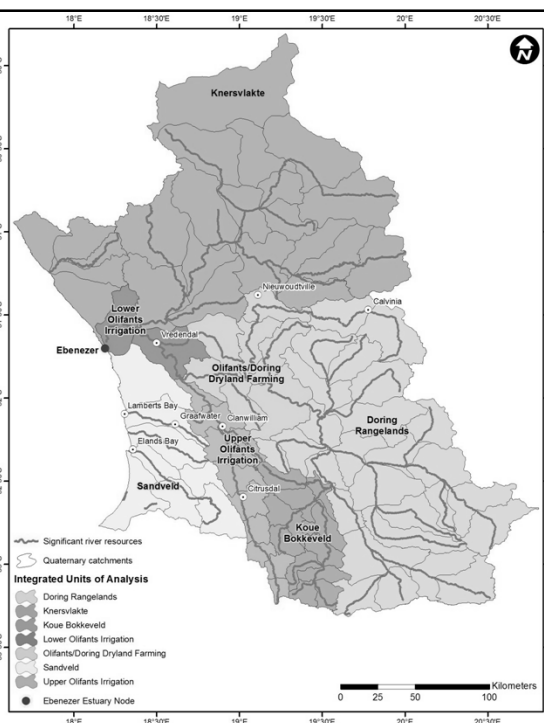


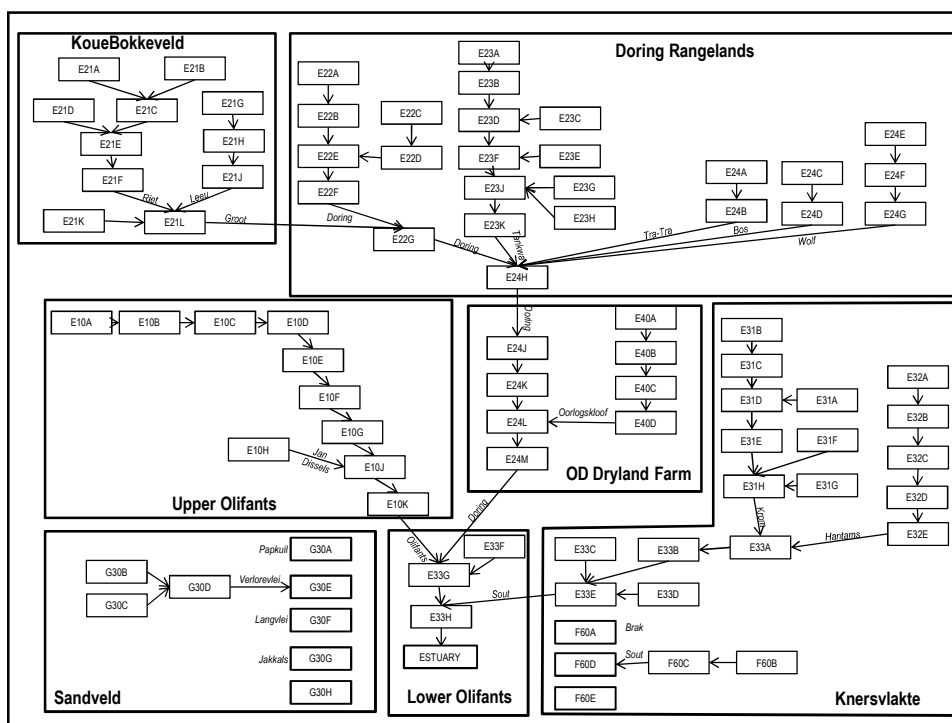
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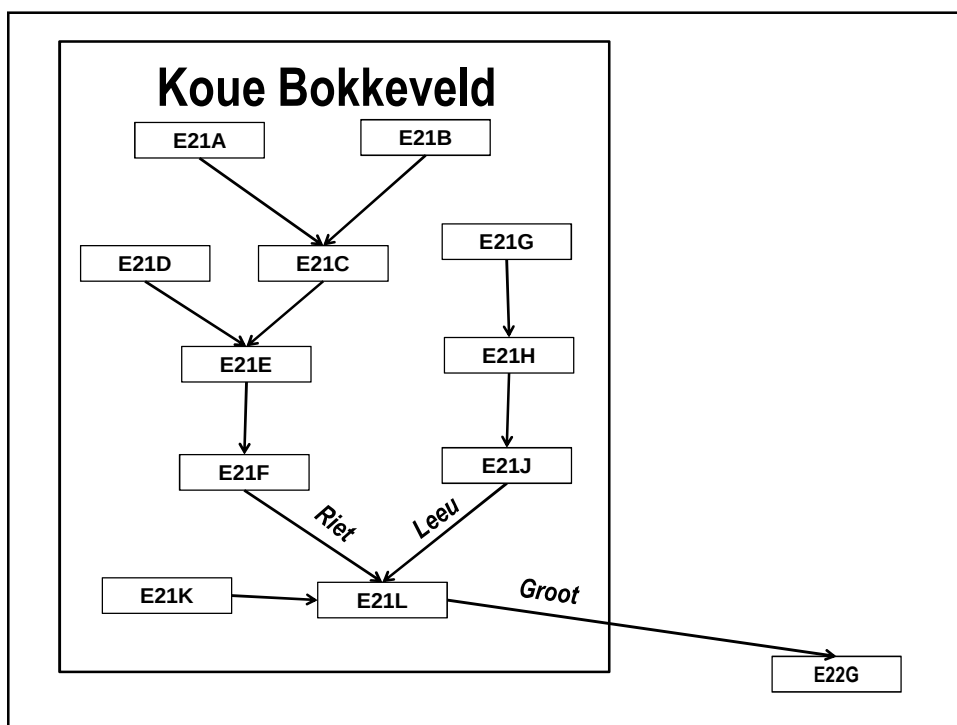
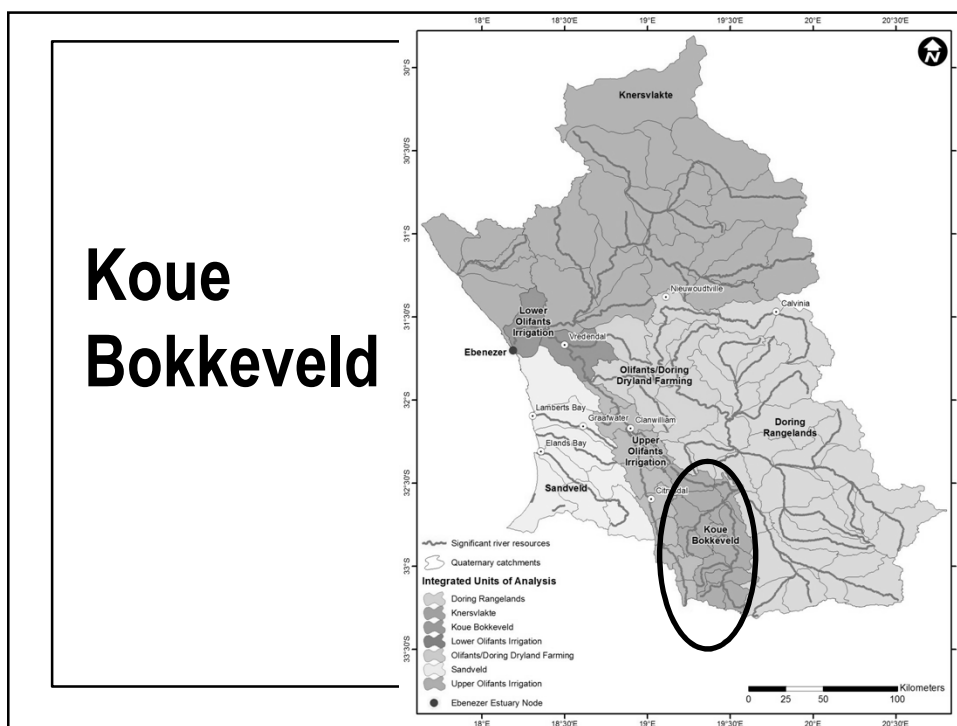
Quaternary
catchment
boundaries
88
quaternary
units



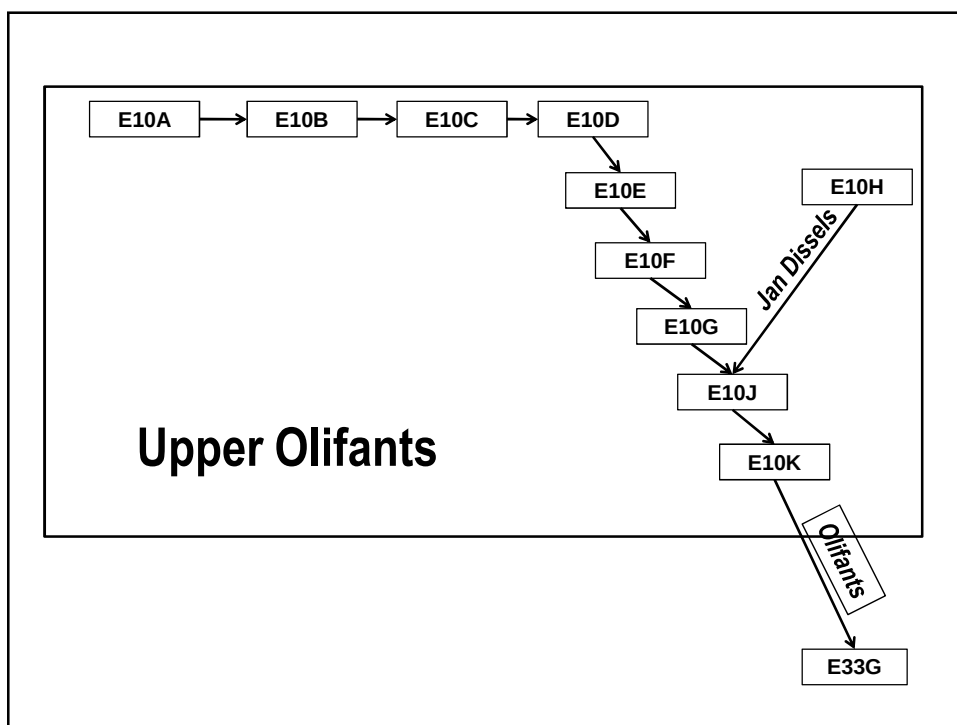
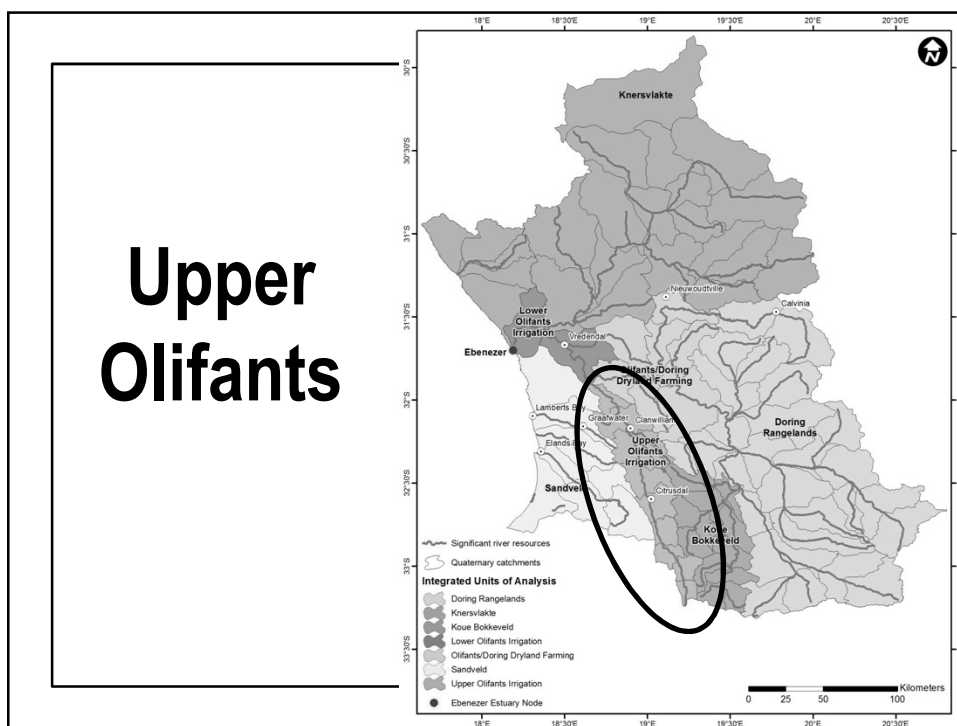
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Integrated
Units of
Analysis

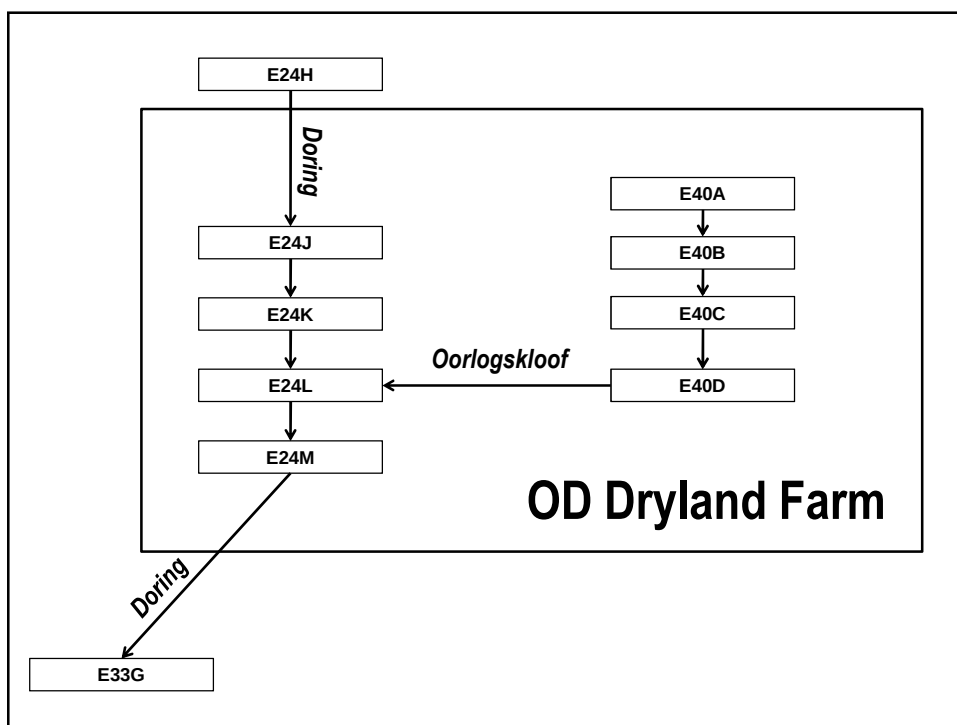
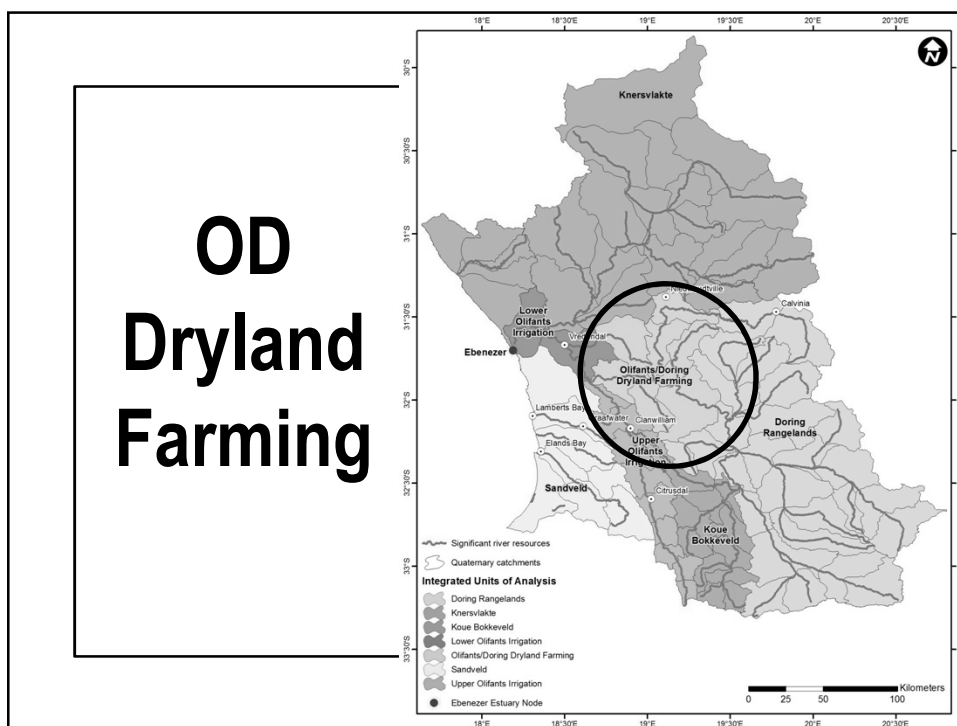


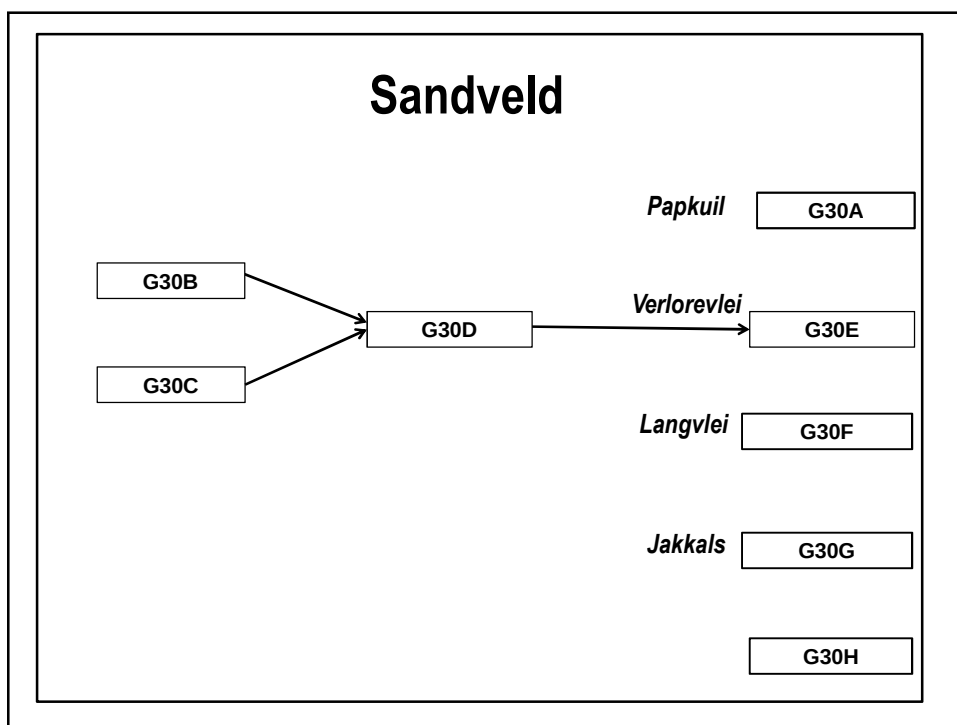
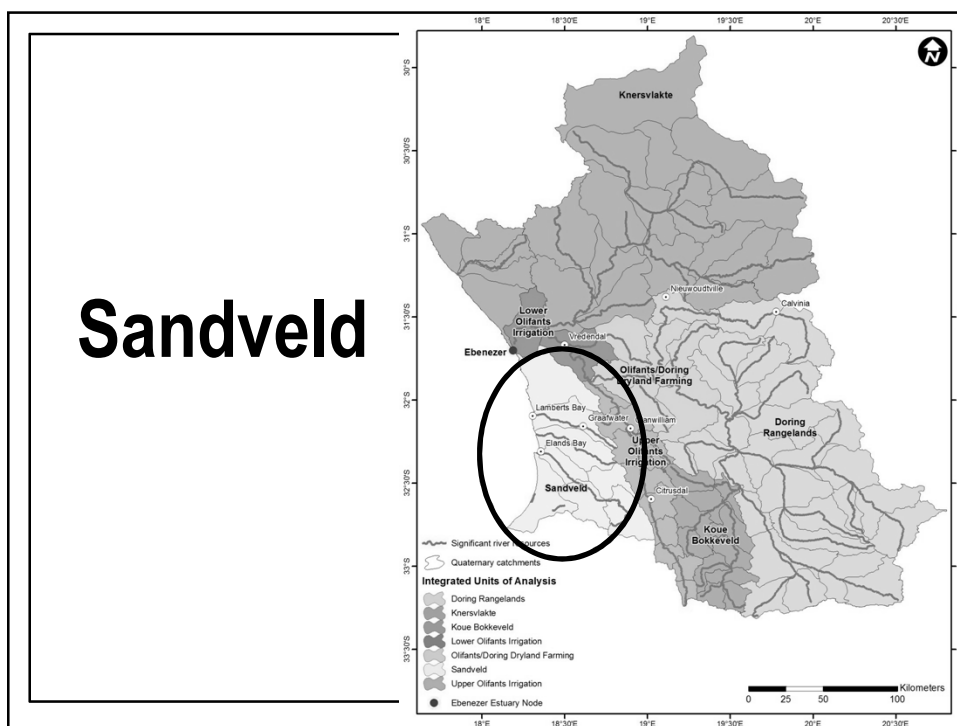


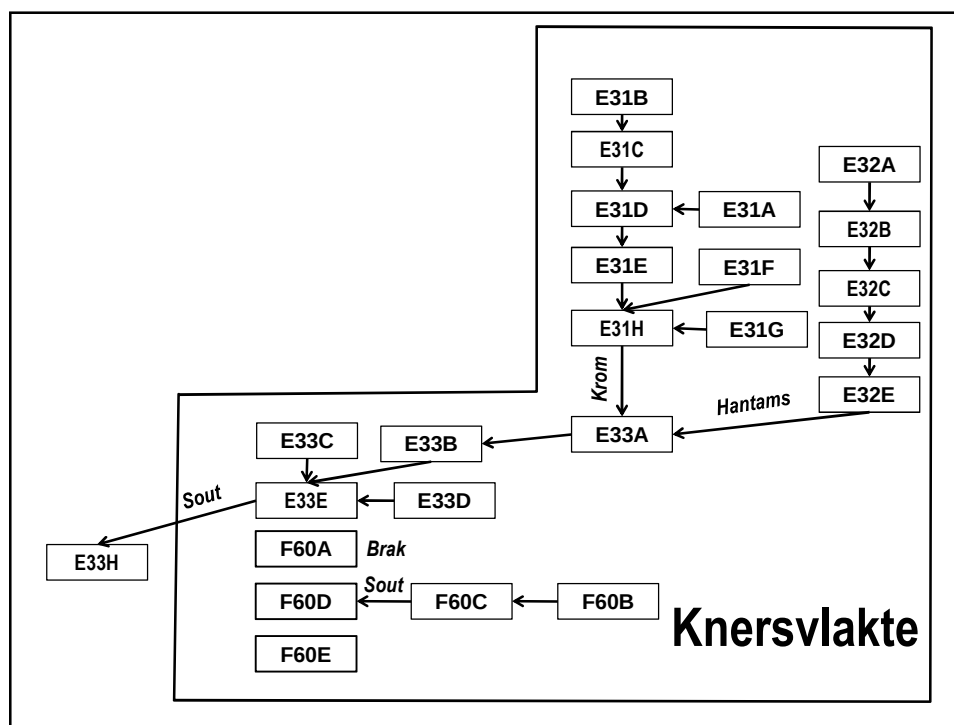
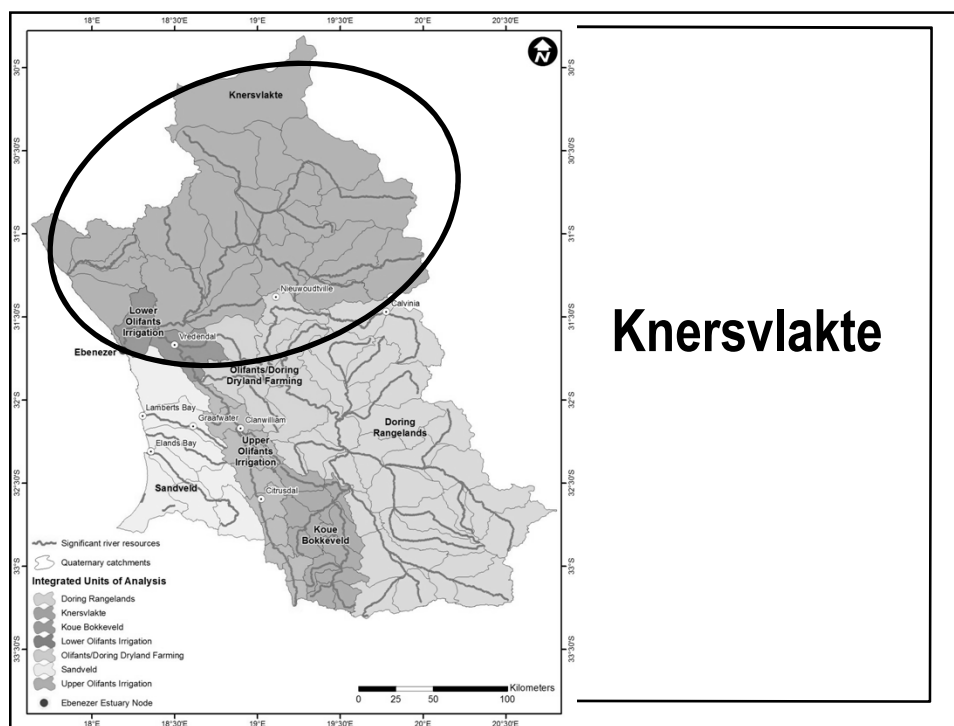


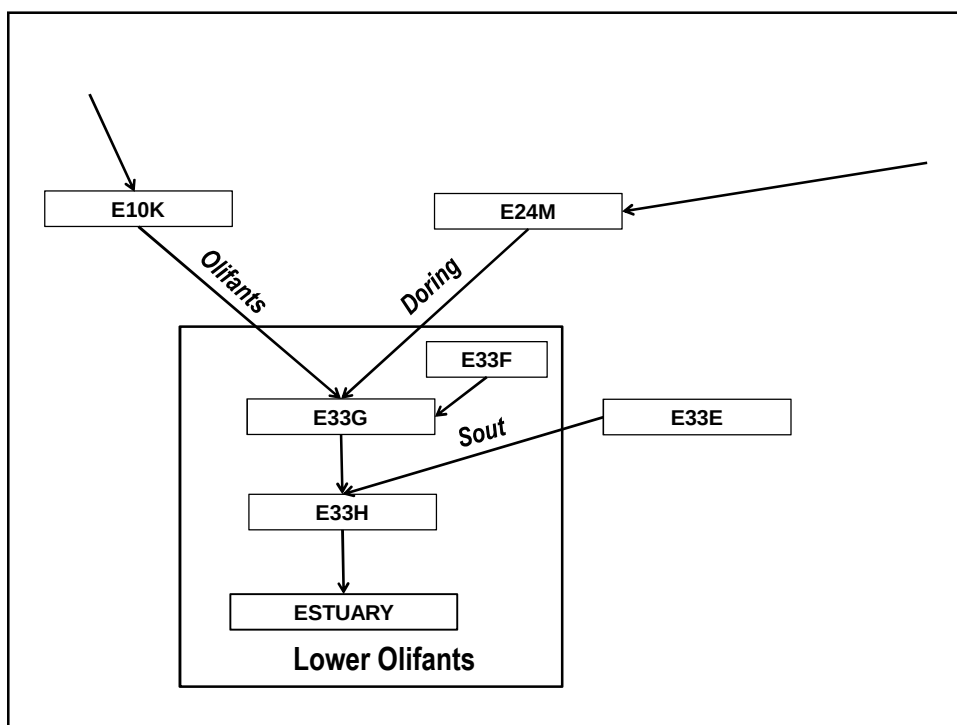
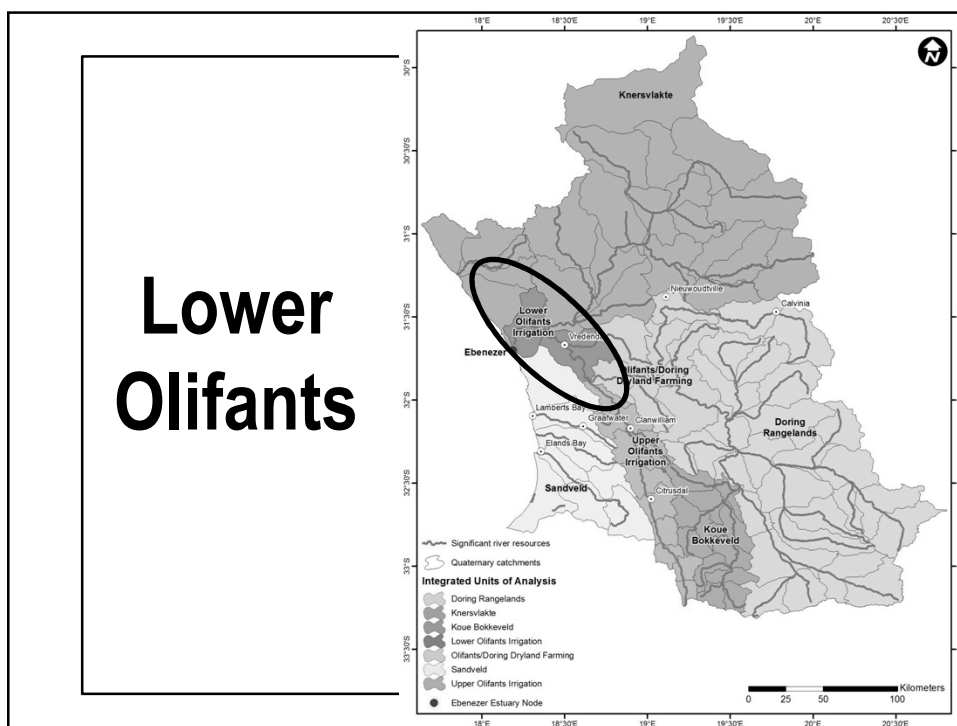




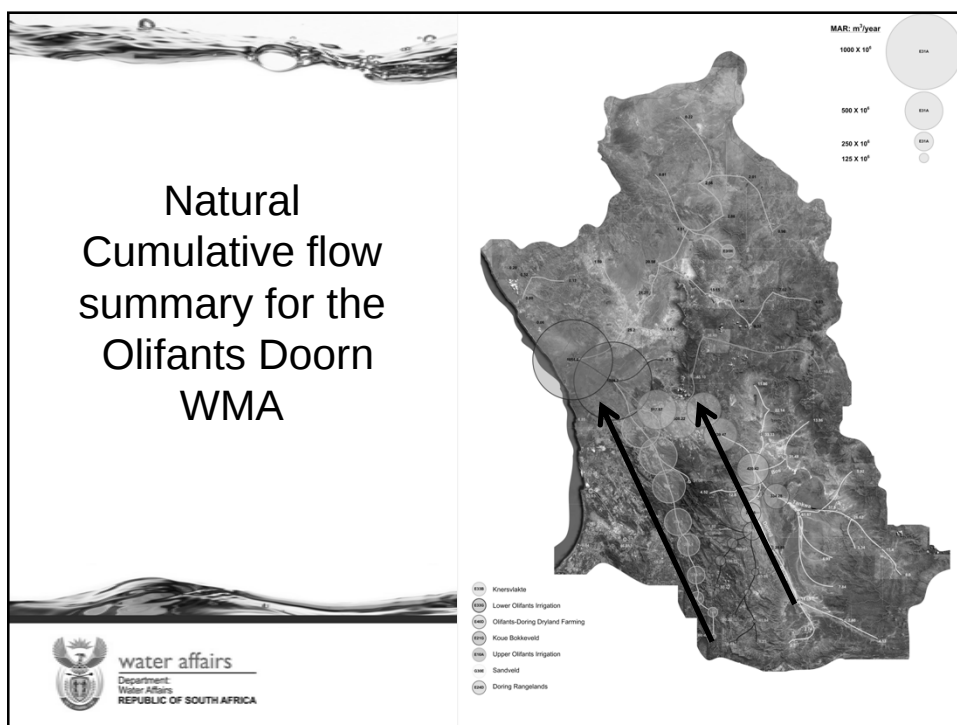
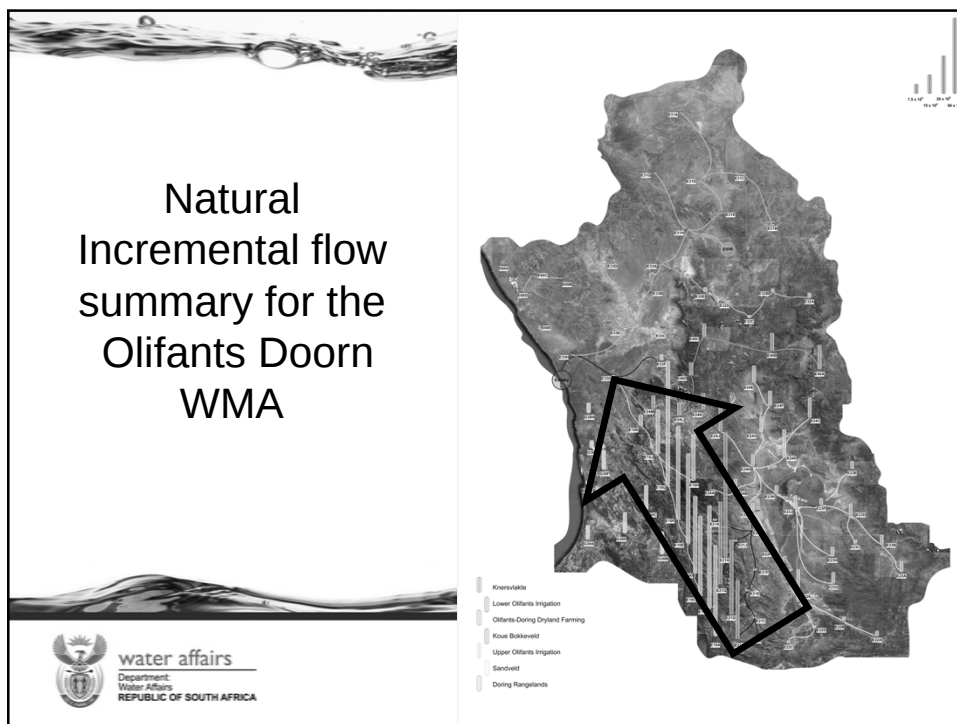








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Thank you !!
Discussion,
comments and
questions



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