

CELEBRATING
70 Years
Ideas that work

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Freshwater Component of the National Biodiversity Assessment (NBA) 2018

Freshwater Ecosystem Network (FEN) Meeting 29 July 2015

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SANBI 
Biodiversity for Life
South African National Biodiversity Institute

NBA2018 Freshwater Component reference committee

- NBA2018 time frame 2015-8
- Freshwater Component:
 - CSIR and SANBI collaborate
 - Heidi (lead) & Namhla, advisors Jeanne and John
 - major emphasis on wetlands, less on rivers
- Reporting on headline indicators:
 - Biodiversity of wetland types (National Wetland Inventory)
 - Biodiversity targets
 - Ecological condition
 - Protection levels

NBA2018 Freshwater Component reference committee

- Aim: to ensure objective and representativeness in the Freshwater Component of the NBA2018
- TOR and expectations
 - Advisory committee to Component Lead
 - Guidance on decisions wrt Freshwater Component
 - Approval of work done wrt Freshwater Component
- Representation
 - To be appointed
- Frequency of meetings
 - To be determined

NBA 2018 preliminary ideas

- Improved NWI:

- FS data ~ use as is (extent and types available)
- Data-poor areas ~ hybrid approach
 - Modelling of extent in data poor areas
 - Modelling types (HGM+flow?) and condition for medium to poor level data
 - Upscaling of GIEMS-D15 data (Fluet-Chouinard et al 2015)
- Modelling approach ~ decision trees, SVM or bayesian

Accuracy
assessments?

- Condition modelling of wetlands:

- Best scale?
 - Sub-quadernary catchments // Altitudinal quaternaries // River quaternaries
- Methods:
 - % natural land cover (new NLC 2013/4 data) – good for comparisons & trends
 - Chl-*a* and DOM for large dams (remote sensing monitoring)
 - Multivariate analysis of combined data sets per geographic variant

NMA 2018 preliminary ideas

- Incorporation of themes

- Alien invasive species
- Indigenous species
- Genetic diversity
- Climate change

SAPIA + NWI + biomass?
Cranes, CWAC, wet-dep frogs
New research
Climate change research

Next meeting

- Using new Protected Areas layer of DEA and more?

- How to compare between NBAs if protected areas changes over years?
- Assess per type of Protected Area?
- Consideration of protection within protected areas

Thank you

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