



Mainstreaming of Environmental Flows into Integrated Water Resources Management

Three-day Workshop for Managers and Policy-Makers

25-27TH November 2019

Cape Town, South Africa

AGENDA

PARTICIPANTS ARE REQUESTED TO BRING A LAPTOP COMPUTER TO THE PROCEEDINGS

Day 1: Concepts and methods

Time	Topic	Facilitator
08:30	Registration	Nairobi Convention
09:00	Welcome and introduction Opening Workshop agenda	NC S. Africa Japhet Kashaigili
09:20	The nature and functioning of river systems, and the impacts of water-resource developments	Cate Brown
10:00	TEA/COFFEE BREAK	
10:30	Experiences in IWRM from different WIO countries: Policy and programmatic interventions <ol style="list-style-type: none"> 1. Mr Reuben Ngessa – Kenya 2. Mr Andriamifidiarivelo RAMAROKOTO – Madagascar 3. Ms Annie Simon – Seychelles 4. Mr Kenadid Mumin Cali – Somalia 5. David Munkya – Tanzania 	Japhet Kashaigili
12:00	Introduction to EFlows for rivers: Concepts and methods	Winfred Mbungu
12:30	Ecosystem modelling approach to E-Flows Assessment and Management	Cate Brown
13:00	LUNCH BREAK	
14:00	Group practical sessions: Identifying EFlows for fish. Participants will be guided through a 'knowledge capture' exercise for a fish species, using notes and guidance provided by the facilitators.	Cate Brown/ Alison Joubert
15:00	Introduction to EFlows for estuarine and marine environments: Concepts and methods	Lara van Niekerk

15:30	<p>Group practical sessions: Identifying EFlows to protect estuarine and marine ecosystem services. Participants will list ecosystem services provide by estuaries and marine environment, and guided through a process to identify the kinds of flow would be needed to maintain them: - prolonged low flows leads to salinity creep into fresh water regions where farmers, cities and towns abstract water - high flows serve as fish recruitment signals - floods brings muds needed to maintain mangroves - higher flows/floods scour organics and assist with maintaining water quality.</p>	Lara van Niekerk/ Cate Brown
16:00	TEA/COFFEE BREAK	
16:30	Group practical sessions (cont.) and feedback	Cate Brown
17:00	Closure	

Day 2: E - Flows in practice and associated outcomes as case studies		
08:30	Recap and agenda for the day	Cate Brown
09:00	Background and overview of the WIO EFlows Guidelines	Cate Brown
09:20	EFlows in transboundary settings: Negotiating objectives for river and estuarine ecosystem status (Development Space)	Jackie King
10:00	TEA/COFFEE BREAK	
10:30	Adopting EFlows as a tool in Integrated Water Resource Management (IWRM)	Japhet Kashaigili
11:00	<p>Small group discussions: Participants share their experiences on the adoption and application of EFlows in IWRM.</p>	Japhet Kashaigili/Cate Brown/Jackie King
12:00	Feedback from group discussions	
12:30	LUNCH BREAK	
13:30	The South African experience: Classification and RQOs	Karl Reinecke
14:00	<p>Group practical sessions: Tradeoffs. Participants will work with an Excel based model that routes flows through the Breede River basin in a downstream direction from source to sea. The model allows the user (student) to toggle flow up and down at various points of interest and calculates changes in ecological condition and flow downstream in response. The practical will focus on changes in flow along the Breede River and what the consequences could be for water supply to agriculture and the City of Cape Town and the estuary. Relevant literature is Dollar et al. 2006.</p>	Karl Reinecke/Alison Joubert



15:00	TEA/COFFEE BREAK	
15:30	Case Study: Estuary EFlows in RSA - information provided and uses for that information	Lara van Niekerk
15:50	Case Study: Planning with EFlows - Okavango Basin	Alison Joubert
16:20	Case study: Kishenganga Dam and the Hague	Jackie King
16:50	Closure	

Day 3: Mainstreaming the uptake of EFlows		
08:30	Recap and agenda for the day	Cate Brown
09:00	Managing an EFlows Assessment: Tools and guidance and building capacity	Cate Brown
10:00	TEA/COFFEE BREAK	
10:30	EFlows information systems	Karl Reinecke
11:00	A framework for country-wide EFlows assessments	Cate Brown
11:30	Group practical sessions: Designing a basin-wide EFlows Assessment. Participants will work in groups. They will select a basin, and use the Guidelines and other resources to design a basic Scope of Work for a basin-wide EFlows Assessment.	Cate Brown/Japhet Kashaigili/Lara van Niekerk
12:30	LUNCH BREAK	
13:30	Group practical sessions (cont.) and feedback	Cate Brown/Japhet Kashaigili/Lara van Niekerk
15:00	TEA/COFFEE BREAK	
15:30	Group practical sessions feedback (cont.)	Cate Brown/Japhet Kashaigili/Lara van Niekerk
16:00	Wrap-up session and next steps	Japhet Kashaigili Nairobi Convention South Africa
16:30	Closure	