

Report on:

CURRICULUM REVIEW and IMPROVEMENT WORKSHOP



The Hydraulics Research Center and Kassala University

24 - 28 February, 2020.

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1 Introduction

This report provides a brief overview of the activities of the curriculum review and improvement workshop organized by the Hydraulics Research Center (HRC-Sudan) in collaboration with MetaMeta Research- the Netherlands, within the framework of the Africa to Asia: Testing Adaptation in Flood-based Resources Management project financed by IFAD.

The Testing Adaptation in Flood-based Resources Management project has, since its inception in 2016, invested into capacity building including mainstreaming Flood - Based Livelihood Systems (FBLN) courses in several knowledge centers and education institutions in the target countries of Kenya, Malawi, Myanmar, Pakistan, Sudan and Yemen.

From the 24th. till the 28th. of February 2020 the FBLN ‘Curriculum Review and Improvement Workshop’ took place at HRC in Wad Medani and at Kassala University in Kassala, Sudan. Representatives from the FBLN chapters and Universities in Kenya, Malawi, Pakistan, Sudan and Yemen, came together to review the current initiatives of mainstreaming FBLN and Spate Irrigation at the Universities. Thirty participants have attended the workshop. The candidates are representing governmental authorities, universities and research institutions. Key stakeholders related to irrigation water management in wad Medani (Sudan) representatives from the Ministry of Irrigation and Water Resources (MoIWR) in addition to HRC staff have attended the opening session of the workshop.

1.1 Participants

Thirty (30) participants have attended the workshop including students, junior, mid-career and professionals representing governmental authorities, universities and research institutions related to spate irrigation managements across the target countries. Table 1 gives the list of participants and relevant Metadata.

Table 1: list of the workshop participants.

NO.	Name	Surname	Organization	Country	E-mail
1	Abraham	Mehari Haile	MetaMeta Research	Netherlands	ameharihaile@metameta.nl
2	Esmee	Mulder	MetaMeta Research	Netherlands	emulder@metameta.nl
3	Reinier	Veldman	MetaMeta Research	Netherlands	rveldman@metameta.nl
4	Letty	Farjardo Vera	MetaMeta Research	Netherlands	lfjardovera@metameta.nl
5	Macpherson	Nthara	Land Resources Conservation Department / FBLN Malawi	Malawi	macphersonnthara@yahoo.co.uk
6	Austin	Tibu	LUANAR	Malawi	austintibu@yahoo.com
7	Allah Baksh	Habibullah	FBLN Pakistan / SPO	Pakistan	spateirrigation@spopk.org
8	Khurram	Mubeen	Mohammed Nawaz Sharif University of Agriculture Multan	Pakistan	khuram.mubeen@gmail.com
9	Sharafaddin	Ahmed	WEC, Sana'a University	Yemen	sharaf1960s@gmail.com
10	Celestine	Kilongosi	ICRAF Kenya	Kenya	ckilongosi@metameta.nl
11	Maurice	Odour Opondo	Kenya Government, Ministry of Water and Sanitation	Kenya	mauropond@hotmail.com
12	Esther	Musavi Odundo	Kenya Government, Ministry of Water and Sanitation	Kenya	esthermusavi03@gmail.com
13	James Messo	Raude	Jomo Kenyatta University	Kenya	ramesso@jkuat.ac.ke; ramesso@yahoo.com
14	Abu Obeida	Ahmed	HRC	Sudan	hrs_abdo@hotmail.com
15	Ahmed	Alamin	HRC	Sudan	ahmedhydrohrc@gmail.com
16	Ahmed	Al-Siddig	Ministry of Irrigation and water resources	Sudan	ahmedhayaty@live.com
17	Ali	Elhaj	HRC	Sudan	ali_hrc@hotmail.com
18	Eltigani	Bashier	University of Gezira	Sudan	eltigani9@hotmail.com
19	Hiba	Mohamed	HRC	Sudan	hiba.ameen@yahoo.com
20	Khalid	Hassaballah	HRC	Sudan	k.hassaballah@yahoo.com
21	Ahmed	Ibrahim	HRC	Sudan	ahmed_akabo@yahoo.com
22	Ahmed	Abu Sin	HRC	Sudan	ahmedabusin@yahoo.com
23	Mohy Eldin	Elkabeer	Ministry of Irrigation and water resources Ground Water& Wadis	Sudan	mkabir5@yahoo.com
24	Iman	Fadal	HRC	Sudan	e.fadulbashir@gmail.com
25	Osman	Osama	HRC	Sudan	o.osama@hrc-sudan.sd

26	Taha	Dafalla	HRC	Sudan	t.abdalwahab@hrc-sudan.sd
27	Mojahed	Elsiddig	HRC	Sudan	mog.almahi@gmail.com
28	Maweya	Dafallah	HRC	Sudan	m.dafalla@hrc-sudan.sd
29	Roaa	Hassan	Kassala university	Sudan	Rooroo1996999@gmil.com
30	Salma	Abdalla	Kassala university	Sudan	Salmaibraheem74e@gmail.com

1.2 Workshop program at a glance

The workshop has started by an opening session addressed by Prof. Abu Obeida B. Ahmed, General Director of HRC-Sudan and Dr. Abraham Mehari Haile Principal researcher at MetaMeta Research. Key stakeholders have attended the opening session including junior and mid-career professionals representing researchers, university lecturers and tutors as well as government representatives who are involved directly or indirectly in spate irrigation management (Annex 1).

The first day has focused on introduction followed by discussion on enlighten participants with emerging topics in FBLS including youth and gender, road water harvesting, agroforestry, innovations in water productivity and soil moisture in addition to **Water Productivity through Open access of Remotely sensed derived data (WaPOR)**.



Photo 1: Side of the opening session.

On day 2 an overview of the curricula and delivery methods in the several countries, were deeply elaborated.



Photo 2: Mr. James Messo from Jomo Kenyatta University, Kenya.



Photo 3: Mr. Austin Tibu from LUANAR, Malawi.



Photo 4: Dr. Khurram Mubeen from Mohammed Nawaz Sharif University of Agriculture Multan, Pakistan.

The Gezira irrigation scheme is visited by the workshop participants on Monday, 24 February 2020 guided by the HRC staff to inform participants with irrigation system and the canalization system in Gezira scheme.

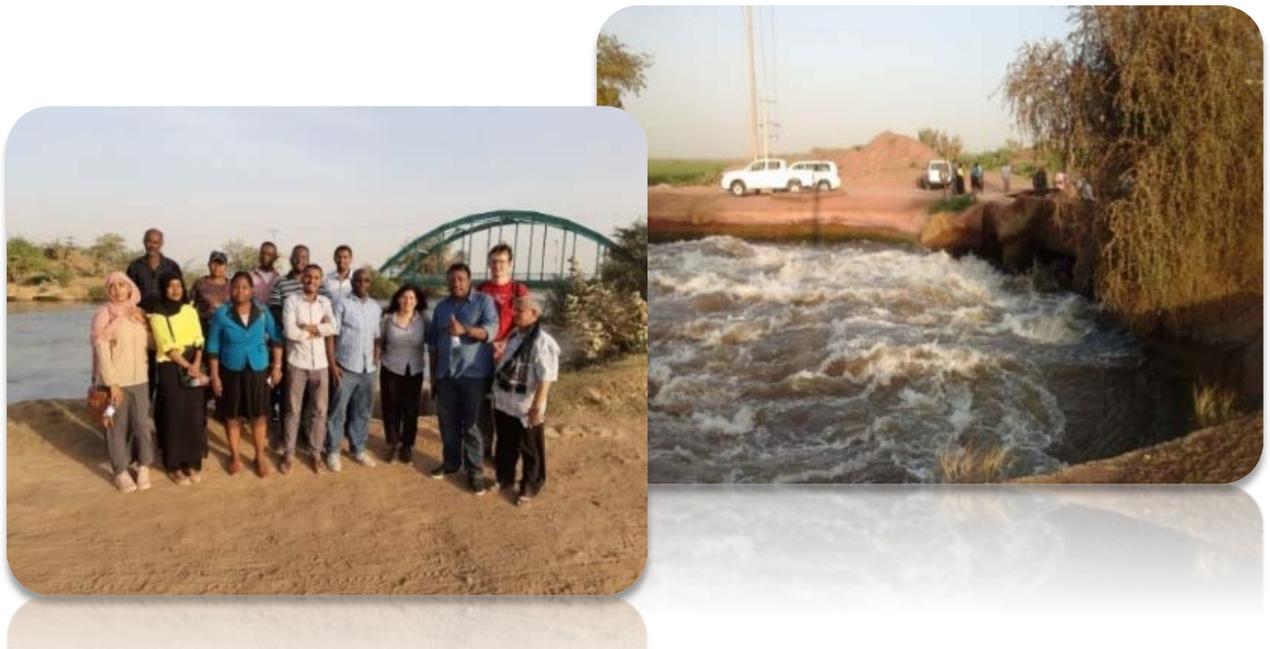


Photo 5: Side of the field visit to Gezira scheme.

On the third day a field visit to Gash spate systems was made and the workshop closed with presentations from students and group discussion aimed at curriculum improvements on the fourth day.



Photo 7: Side of filed visit to Gash spate system.



Photo 6: sides of workshop activities in Kassala.



Photo 8: Side of the groups to discussion at Kassala University.

1.3 Main outcomes

The curriculum review and improvement workshop has contributed to:

- Enrich the participants' knowledge with (FBLs) courses in several knowledge centers and education institutions, the challenges experienced and the way forward.
- Review, update and revise the current (FBLs) courses and delivery methods in the different educational institutions.
- Facilitate active learning opportunities and peer-to-peer exchanges on successful interventions and emerging thematic areas in FBLs.
- Awareness raising on Socio-economic empowerment of women in FBLs.

1.4 General remarks

- Graduate students are encouraged to conduct research on topics related to FBLS.
- Good media coverage was done to the workshop activities by HRC communication person and media section besides few representatives of national local media.
- Workshop participants were invited by the HRC to a social evening in Wad Medani.



Photo 9: Side of social evening in Wad Medani

Annex 1: Programme for the curriculum review and improvement workshop

DAY 0: SUNDAY, 23 February 2020: Arrival in Khartoum at the Grand Holiday Villa hotel				
DAY 1: MONDAY, 24 February 2020 Departure from Khartoum at 10.00AM, Arrival in Wad Medani where the Hydraulic Research Centre (HRC), the workshop hosting organization is based. It is 3-hour drive from the Capital Khartoum. Lunch at HRC and field visit to Gezira scheme in the afternoon				
DAY 2: TUESDAY, 25 February 2020: Introduction followed by discussion on emerging topics that can enrich the curriculum – the 30-minute allocated for each topic will be equally divided between presentations and discussion. The exception is Remote Sensing and Water Productivity – there will be 30-minute presentation followed by another 30-minute discussion time				
Time	Activity	Venue	Speaker/ Facilitator	Chair Person
8.00 - 9.00	Registration of participants	HRC conference room	HRC	Abu Obeida
9.00 - 9.15	Welcoming remarks		Abu Obeida, DG, HRC	
9.15 - 9.45	Introduction of the participants and the workshop		Reinier	
9.45 - 10.15	Introduction of the FBLS project		Abraham/Abu Obeida	
10.15 - 10.30	Introduction of the Flood-based Livelihood Network (FBLN)		Reinier	
10.30 – 11.00	Tea/coffee break	HRC	HRC	
11.00 - 11.30	Innovations in soil moisture management	HRC conference room	Celestine/HRC	
11.30 - 12.00	Agro-forestry in FBLS		Celestine	
12.00 - 12.30	Road water harvesting		Abraham	
12.30 - 13.00	Discussion		All	
13.00 – 14.00	Lunch break	HRC	HRC	
14.00 - 14.30	Socio-economic empowerment of women in FBLS	HRC conference room	Letty	
14.30 - 15.00	Youth attractive enterprises in FBLS		Opondo	
15.00 - 15.30	Discussion		All	
15.30 – 16.00	Tea/coffee break	HRC	HRC	
16.00 - 17.00	WaPOR and water productivity - Gash Scheme case study	HRC conference room	Esmee	
DAY 3: WEDNESDAY, 26 February 2020: Curriculum discussion: half an hour presentations followed by extensive discussions				
8.00 - 9.30	Curriculum and delivery methods of Sudan	HRC conference room	Sudan representative	Dr. Kabo
9.30 - 11.00	Curriculum and delivery methods of Yemen	HRC conference room	Yemen representative	
11.00 - 11.15	Tea/coffee break	HRC	HRC	
11.15 -12.45	Curriculum and delivery methods of Pakistan	HRC conference room	Pakistan representative	
12.45 to 14.00	Lunch break	HRC	HRC	
14.00 - 15.30	Curriculum and delivery methods of Malawi	HRC conference room	Malawi representative	
15.30 - 16.00	Tea/coffee break	HRC	HRC	
16.00 - 17.30	Curriculum and delivery methods of Kenya	HRC Conference room	Kenya representative	

Time	Activity	Venue	Speaker/Facilitator	Chair Person
DAY 4: THURSDAY, 27 February 2020: Drive to Kassala, 5 to 6 hours drive from Wad Medani. Curriculum discussion: half an hour presentation followed by extensive discussion				
07.00 – 13.30	Travel to Kassala, Visit to Gash FBLS in Kassala		HRC	
13.30 – 14.30	Lunch break		Kassala	
14.30 – 18.30	Field visit to Gash FBLS		Gash Scheme and HRC	Abu Obeida
DAY 5: FRIDAY, 28 February 2020: Group discussion on curriculum improvements and wrapping up of workshop				
08.00 – 09.00	Presentation on water harvesting by Kassala students and discussing FBLS research topics for Kassala University BSc students		Kassala University	Reinier
09.00 – 11.00	Group discussion on curriculum improvement: Six groups one for each Yemen, Sudan, Pakistan, Myanmar, Kenya and Malawi (Note: at this time, Esmee will give lecture on WaPOR in Kassala University for interested staff and students)		Abu Obeida/Abraham	
11.00 – 11.30	Tea / coffee break	Kassala	Kassala University / HRC	
11.30 – 13.00	Groups present key curriculum improvement suggestions followed by discussion	Kassala University	Group representatives	Abu Obeida
13.00 – 13.30	Closing remarks	Kassala University	Abu Obeida/Abraham	
13.30 – 14.30	Lunch break	Kassala	HRC	
14.00 – 19.00	Travel to Wad Medani			
19.00 – 22.30	Travel to Khartoum, for part of the group (Kenya)			
DAY 6: SATURDAY, 29th February 2020: Travel back to Khartoum, for the remainder				Abu Obeida

Local Organization committee

Prof. Abu Obeida B. Ahmed;

Ms. Maweya D. Abdelgader;

Ms. Hiba A. Mohamed; and

Mr. Ali M. Elhaj.

Annex 2: Media coverage

The workshop has been covered by high quality media in various local TV and a report about the workshop was telecasted on Sudan National TV.

Workshop activities added to FBLN website.

Sudan TV, interview with Prof. Abu Obeida





الجزيرة تقرير ورشة الحياة البحوث الهيدرولوجية.mp4

<http://spate-irrigation.org/resource-documents/library-2/curriculum-review-2020/>



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Curriculum Review, 2020

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The first day was used to present a range of emerging topics that have potential to be included into the curricula followed by an overview of the curricula and delivery methods in the several countries on the second day. On the third day a field visit to Gash spate systems was made and the workshop closed with presentations from students on the fourth day.







Resource Documents

- [Practical Notes](#)
- [Overview Papers](#)
- [Guidelines & Manuals](#)
- [Training Material](#)
- [Farmer learning materials](#)

Library

- [Curriculum Review, 2020](#)
- [FBLS Symposium, 2019](#)
- [Leadership course, 2017](#)
- [Internship course, 2017](#)
- [Leadership course 2016](#)
- [Tandojam, 2015](#)
- [Islamabad, 2014](#)
- [Addis Ababa, 2014](#)
- [Wageningen, 2014](#)
- [Sudan Research Program 2011 – 2014](#)
- [Agadir 2011](#)
- [Cairo 2005](#)

Annex 3: Photos from the workshop











