Monday 20 October: Kick-off

9 – 9:45	Registration to the event			
9:45 – 10	Welcome to the workshop: opening remarks			
	Lamberto Alvarez Gil & Hector Cruz Enriquez – UCLV			
	Ann van Griensven – VUB			
	Juan Criado, Marthe Cressato & Annelies Mertens – UNESCO			
10 – 10:30	Introduction of current and planned projects in Cuba and the region Ann van Griensven – VUB			
10:30 – 11:00	Be Resilient SIDS project: plan & opportunities + co funding			
	opportunities			
	Marthe Cressato – UNESCO-IHP			
11:00 – 11:20	Introduction of current and planned projects in Cuba and the region			
	Wouter Buytaert – Imperial College London			
11:20 – 11:40	Coffee break			
11:40 – 12:00	Empowering communities for resilient water management: A			
	collaborative approach to hydroclimatic challenges in the Andes			
	Mario Córdova – Universidad Cuenca, Ecuador Paul Muñoz, Ann van Griensven, VUB Belgium			
12:00 – 12:20	Smart water management to improve water balance control and			
	environmental preservation in river basins (Cuba)			
	Erik Ortiz Guerra, Lambei	Erik Ortiz Guerra, Lamberto Alvarez Gil, Hector Cruz Enriquez-		
	UCLV/Ann van Griensven VUB			
12:20 – 12:40	Overview of water related projects at the UCB			
	Prof Ximena Peres, UCB,	Prof Ximena Peres, UCB, Bolivia		
12:40 – 13:00	Brainstorm about project	Brainstorm about project ideas/ proposals		
13:00 – 14:30	Lunch	Lunch		
14:30 – 17:00	Proposal writing	Be Resilient SIDS workshop		
	workshop	Presentations of each participant per		
	Opportunities for VLIR-	country		
	TEAM project	Setting the goal for the week: making a		
	Françoise De Cupere	preliminary work plan for the next three		
		years (introduce PowerPoint template)		
	Opportunities for	Brainstorm about workplan per country		
	ERASMUS+ proposals	Marthe Cressato, Juan Criado (ESP) &		
		Annelies Mertens (ENG) – UNESCO-IHP		

0.00 10.00			
9:00 – 10:00	Introduction to Citizen Science		
	Citizen science & water: introduction of the day		
	VUB & UNESCO (10min)		
	The Democratic Trilemma in Citizen Science: Balancing Equality,		
	Mass Participation and Deliberation – Leo Van Audenhove, VUB		
	(30 min)		
	Engaging youth in water security, opportunities of scientific		
	literacy through citizen science Ana Escalona Diaz – VUB (10 min)		
	Discussion 10 min		
10:00 – 11:25	Citizen science toolbox		
	UNESCO's Citizen Science Toolbox introduction & examples		
	Annelies Mertens– UNESCO-IHP (25min)		
	Citizen Science Toolbox demonstration: installation & first test		
	of the application		
	Annelies Mertens (ENG) & Marthe C	ressato (ESP) – UNESCO-IHP	
11:25 – 11:40	Coffee break		
11:40 – 13:00	Citizen Science for Water	Citizen Science & Water	
	Assessment and Water Resources	Justice	
	Planning	Citizen science for	
	 Ciencia ciudadana y recursos 	Indigenous water justice	
	hídricos, una revisión de alcance	Afnan Agramont (10min)	
	en la ciencia abierta	Articulating Indigenous	
	contemporánea	rights through citizen	
	Lamberto Alvarez Gil & Michael	science	
	Álvarez González (10min)	Leonardo Villafuerte	
	Transdisciplinary Assessment of	(10min)	
	Water Resources in the Andes of	The human right to water	
	Peru Giovani Mosquera (10min)	and Citizen Science in	
	Citizen science for water quality The same start of the s	Cuba	
	monitoring in Yala swamp, Kenya	Beatriz Lorenzo Year	
	Dennis Ochuodho (10 min)	(10min)	
	Disquesions	Diagonaliana	
	Discussions	Discussions	
13:00 – 14:30	Lunch		
14:30 – 15:25	New ideas and plans for citizen science	e applications per country	
11.00 10.20	Discussions	s appareations per equitary	
15:25 – 15:40	Coffee break		
15:40 – 16:10	Introduction to the Nacional Parc "Caguanes" and excursion		
, , ,	Norgis Valentín Hernández López, [
16:10 – 17:00	Documentary "Art, Nature and Comn		
	Conservation in East Africa"		
	Dennis Ochuodho, Annika Schlemm, Ann van		
	Griensven		

Wednesday 22 October: Field excursion Buenavista Biosphere Reserve + Demonstration session Citizen Science Toolkit

The Buenavista Biosphere Reserve, declared by UNESCO in 2000, spans over 310,000 hectares along Cuba's northern coast. This unique area encompasses sand and rock beaches, diverse forests, archaeological sites, and complex cave systems adorned with indigenous wall paintings.

The <u>Citizen Science Toolkit</u>, developed by IHP, is a mobile application and data portal for citizen science data collection and open access data visualization.

Information received from tour operator:

- General Information Category: Full-day excursions
- Modality: Nautical excursions
- o Duration: 6:30 hrs
- o Departure time: 8:00 hrs
- o Guide: Yes Speaks: Spanish and English
- Program Details Description: Enjoy the beauty of a region that still preserves its pristine beauty.
- Scheduled Itinerary:
 - Pickup from hotels. Transfer to harbour Cayo Las Brujas. Boat trip to Caguanes National Park.
 - Visit one of the caves in Caguanes National Park.
 - Practical citizen science workshop on water quality monitoring.
 - Visit island "Boca Chica"
 - Sail back to the Cayo Las Brujas. Return to the hotel.

Thursday 23 October: Digital technologies

9:00 – 9:45	Introduction to Open Science and Open Data		
	Introduction to UNESCO's Open Hydrology program & WINS		
	portal + Demonstration		
	Marthe Cressato & Annelies Mertens – UNESCO-IHP		
9:45 – 10:20	Artificial Intelligence	Remote Sensing	
	 Al for water management Annelies Mertens – UNESCO- IHP (15 min) Modelos de predicción basados en Inteligencia Artificial como soporte a la toma de decisiones en cuencas hidrográficas Eduardo Enrique Puig Contreras (15min) Towards An Integrated Approach: Using Citizen Science and Al to Inform Climate-Resilient Public Space Design Mario Córdova (10min) 	 Advancements in earth observation for water resources monitoring and management in Africa Timothy Dube (10 min) Remote sensing applications for water quality Vann Harvey, (10 min) Remote sensing for DRR in Jamaica Cheila Cullen & Shaneice Lester (15 min) Leverage IoT and remote sensing data to adapt John Okedi (10min) 	
10:30-11:00	Internet of Things (IoT)		
	Introduction to IoT sensors		
	Wouter Buytaert (15min)		
	Water quality IoT sensors Abda Na In Taylor of (15 main)		
11:00 – 11:15	Abdellah Touhafi (15min) Coffee break		
11:15 – 13:00	Hands-on IoT (Wouter Buytaert)	Proposal developments	
11.13 - 13.00	Ilanus-on for (woulder buylaert)	1 Toposat developments	
	(In Spanish)		
13:00 – 14:30	Lunch		
14:30 – 17:00		nts in Cuba (other hotel, transport	
	by bus)	•	
	(In Spanish)		

Friday 24 October: Climate Risk Informed Decision Analysis (CRIDA)

9-9:30	Introduction to the CRIDA Framework	
	Marthe Cressato - UNESCO-IHP	
9:30 – 10:10	 CRIDA Step 1: Establishing the decision context & Stakeholder engagement Introduction of Step 1: Marthe Cressato - UNESCO-IHP CRIDA in Guayabin-basin in the Dominican Republic Juan Saldana – INDRHI Participatory approaches for CRIDA: Katari River Basin Case Study in Bolivia 	
10:10 – 10:45	Afnan Agramont & Leonardo Villafuerte	
10.10 - 10.45	 CRIDA Step 2: Climate Stress Test Introduction of Step 2: Marthe Cressato - UNESCO-IHP Using SWAT+ for CRIDA in the Katari basin, Bolivia Ann van Griensven Climate impact modelling using global SWAT+ model Albert Nkwasa 	
10:45 – 11:00	Coffee break & hotel check-out	
11:00 – 11:45	 CRIDA Step 3: Formulating Adaptation Actions & Pathways Introduction of Step 3 & Examples: Marthe Cressato - UNESCO-IHP Sustainable urban Drainage Systems to mitigate climate change impacts such as floods and urban heat John Okedi (10 min) Everything You Always Wanted to Know About Water Conflicts Dynamics (But Were Afraid to Simulate) Mario Lillo (10min) 	
11:45 - 13:00	Closing session Be Resilient SIDS	
	Presentations of the preliminary work plans per country	
13:00 – 14:30	Lunch	
14:30 – 21:00	Transport back to la Habana	