

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	Empowering communities for resilient water management: A collaborative approach to hydroclimatic challenges in the Andes Mario Cordova – Univeridad Cuenca, Ecuador Paul Muñoz, Ann van Griensven, VUB Belgium	
12 – 12:20	Smart water management to improve water balance control and environmental preservation in river basins (Cuba) 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 Ximena Peres, UCB, Bolivia	
12:40 – 13:00	Brainstorm about project ideas/ proposals	
13:00 – 14:30	Lunch	
14:30 - 17	Proposal writing workshop Opportunities for VLIR-TEAM project Françoise De Cupere Opportunities for ERASMUS+ proposals	Be Resilient SIDS workshop <ul style="list-style-type: none"> • Presentations of each participant per country • Setting the goal for the week: making a preliminary work plan for the next three years (introduce PowerPoint template) • Brainstorm about workplan per country Marthe Cressato, Juan Criado (ESP) & Annelies Mertens (ENG) – UNESCO-IHP

Tuesday 21 October: Citizen Science

9:00 – 10:00	Introduction to Citizen Science <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 Cressato (ESP) – UNESCO-IHP 	
11:25 – 11:40	Coffee break	
11:40 – 13:00	Citizen Science for Water Assessment and Water Resources Planning <ul style="list-style-type: none"> • Ciencia ciudadana y recursos hídricos, una revisión de alcance en la ciencia abierta contemporánea Lamberto Alvarez Gil & Michael Álvarez González (10min) • Transdisciplinary Assessment of Water Resources in the Andes of Peru Giovani Mosquera (10min) • Citizen science for water quality monitoring in Yala swamp, Kenya Dennis Ochuodho (10 min) • Everything You Always Wanted to Know About Water Conflicts Dynamics (But Were Afraid to Simulate) Mario Lillo (10min) • Discussions 	Citizen Science & Water Justice <ul style="list-style-type: none"> • Citizen science for Indigenous water justice Afnan Agramont (10min) • Articulating Indigenous rights through citizen science Leonardo Villafuerte (10min) • The human right to water and Citizen Science in Cuba Beatriz Lorenzo Year (10min) • Discussions
13:00 – 14:30	Lunch	
14:30 – 15:25	New ideas and plans for citizen science applications per country	
15:25 – 15:40	Coffee break	
15:40 – 16:10	Introduction to the Nacional Parc “Caguanes” and excursion Norgis Valentín Hernández López, Director del Parque Nacional	
16:10 – 17	Remote Sensing <ul style="list-style-type: none"> • Advancements in earth observation for water resources monitoring and management in Africa Timothy Dube (10min) • Remote sensing applications for water quality Vann Harvey (10 min) • Remote sensing for DRR in Jamaica Cheila Cullen (15min) • Discussion (25min) 	Documentary “Art, Nature and Community Conservation in East Africa” Dennis Ochuodho, Annika Schlemm

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 Citizen Science Toolkit, 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
- Duration: 6:30 hrs
- Departure time: 8:00 hrs
- 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 – 9:45	Introduction to Open Science and Open Data <ul style="list-style-type: none">• Introduction to UNESCO's Open Hydrology program & WINS portal + Demonstration Marthe Cressato & Annelies Mertens – UNESCO-IHP
9:45 – 10:45	Artificial Intelligence <ul style="list-style-type: none">• AI for water management Annelies Mertens – UNESCO-IHP (10min)• Modelos de predicción basados en Inteligencia Artificial como soporte a la toma de decisiones en cuencas hidrográficas Eduardo Enrique Puig Contreras (10min)• Towards An Integrated Approach: Using Citizen Science and AI to Inform Climate-Resilient Public Space Design Mario Córdova (10min)• Discussion (30min)
10:45 – 11:10	Coffee break
11:10 – 12:10	Internet of Things (IoT) <ul style="list-style-type: none">• Introduction to IoT sensors Wouter Buytaert (25min)• Water quality IoT sensors Abdellah Touhafi (15min)• Discussion (20min)
12:10 – 13:00	Proposal developments
13:00 – 14:30	Lunch
14:30 - 17	Internet of Things (IoT) (in other hotel, transport by bus) <ul style="list-style-type: none">• Demonstration of IoT developments in Cuba Erik Ortiz Guerra, Lamberto Alvarez Gil, Hector Cruz Enriquez- UCLV• Hands-on IoT Wouter Buytaert – Imperial College London

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 <ul style="list-style-type: none"> • 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 Afnan Agramont & Leonardo Villafuerte
10:10 – 10:45	CRIDA Step 2: Climate Stress Test <ul style="list-style-type: none"> • 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	Coffee break & hotel check-out
11 – 11:30	CRIDA Step 3: Formulating Adaptation Actions & Pathways <ul style="list-style-type: none"> • 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) • Discussion about future CRIDA case studies
11:30 - 13	Closing session Be Resilient SIDS <ul style="list-style-type: none"> • Presentations of the preliminary work plans per country
13:00 – 14:30	Lunch
14:30 - 21	Transport back to la Habana