

Climate Risk Informed Decision Analysis (CRIDA): Training for Latin American and Caribbean professionals on water resources planning

Introduction

Climate Risk Informed Decision Analysis (CRIDA)

Collaborative Water Resources Planning for an Uncertain Future



Achieving and maintaining water security is an increasing challenge due to climate uncertainty and climate change, especially in vulnerable areas such as the mountainous and semi-arid regions of Latin America and the Caribbean (LAC). To move forward, it is necessary to identify methods that integrate scientific understanding of climate impacts on water security into decision-making associated with water resources planning.

The methodology "Climate Risk Informed Decision Analysis" (CRIDA) provides guidelines for assessing water security vulnerabilities due to climate variability and change while offering a guidance on developing adaptation pathways for a robust water resources management.

Recent developments in CRIDA's outreach and implementation include an online course organized in English in 2020, with a high number of participants, and the translation of the publication of the CRIDA manual (originally in English) into Spanish in January 2021.



Despite these efforts, more case studies are needed to demonstrate the versatility of the different approaches and tools with which CRIDA has been applied and adapt them into the regional context. This challenge has motivated UNESCO and DELTARES to organize a regional CRIDA training for Latin America and the Caribbean to train stakeholders on the different aspects of this methodology and to move towards the identification of possible case studies in the region for demonstration purposes. The training consists of three components:

- Short series of four webinars for a broad audience interested in the topic of uncertain climate risk management, e.g., government officials, practitioners, and scientists
- CRIDA online course (self-directed) and in Spanish (subtitled) on UNESCO's learning platform (<https://bit.ly/3vtUAna>)
- Hands-on training on CRIDA with case studies; a practical training for a maximum of 40 people pre-selected through an online application and organized by DELTARES

Objective

Increase the visibility of the CRIDA methodology and expose participants in the LAC region to the use of this methodology for climate change adaptation, as well as lay the groundwork for follow-up activities.

Target audience

Intended for a broad audience including government officials, public and private sector professionals, and scientists involved in climate risk and water management in the Latin American and Caribbean region.

Launching

All these activities are articulated and aim to raise awareness and build capacity in the region in relation to the CRIDA methodology. A launching event has been organized where the launching of the webinar series and the online course converge. The webinar "Water Resources in an Uncertain Future: An Introduction to CRIDA" will be held on March 23, 2022, at 15:30 (CET).

The event is open to everyone by filling out a pre-registration form here:

<https://attendee.gotowebinar.com/rt/2443087770555823374>

Modalities

Online course

The course is open to interested participants on UNESCO's Open Learning website (<https://bit.ly/3vtUAna>). A training certificate will be awarded to participants who complete the modules and evaluations with a minimum pass rate of 80%. In addition, participants will be invited to the closing event of the regional training at CRIDA.

The schedule for training through the open online course is as follows:

- Registration: Until March 20, 2022
- Course start date: March 23, 2022
- Course end: June 3, 2022
- Course closing event: To be confirmed

Webinars

The webinars will be conducted in Spanish (interpretation in any other language is not contemplated) and will be approximately 1.5 hours in length. The format will be a combination of speaker presentations as well as a Questions and Answers (Q&A) session. Participation in the webinars will require prior registration. The "GoToWebinar" platform will be used. It is worth mentioning that the sessions will be recorded and then shared by UNESCO with a wide audience.

The proposed topics for the webinars are presented in the table below and are based on the experiences of the cases developed by DELTARES and CRIDA partners. The first webinar will take the opportunity to launch the online course (<https://bit.ly/3vtUAna>).

Webinar	Date and time
Water Resources in an Uncertain Future: An Introduction to CRIDA <ul style="list-style-type: none">• Water resources in an uncertain future in the region and in particular in Peru (Waldo Lavado - SENAMHI) - 25 min• Brief introduction to the CRIDA approach (Koen Verbist - Deltares) - 30 min• Launching of the regional training (Reinaldo Peñailillo-Deltares) - 5 min	March 23 15:30 GMT+1 9: 30 GMT-5 10:30 GMT-4 11:30 GMT-3

<ul style="list-style-type: none"> • Questions to the speakers (Moderator: Reinaldo Peñailillo-Deltares) - 30 min 	
<p>Incorporating climate risks into integrated water resources management of the Guayubín river basin, Dominican Republic</p> <ul style="list-style-type: none"> • Challenges and opportunities in sustainable development and promoting resilience from a development agency perspective (Aneliya Nikolova, US. Aid) - 20 min • Application of the CRIDA methodology as part of our decision support system (Guillermo Mendoza / USACE) - 20 min • El Guayubin as a pilot towards governance of sustainable and resilient water resources development (Inmaculada Adames, CRYN) - 20 min • Questions to the speakers (Moderator: Reinaldo Peñailillo - Deltares) - 30 min 	<p>April 6 16:30 GMT+1 10: 30 GMT-5 11:30 GMT-4 12:30 GMT-3</p>
<p>Urban flooding; The case of Guayaquil</p> <ul style="list-style-type: none"> • Guayaquil, Sustainability and Resilience (Mónica Menéndez - Municipality of Guayaquil) - 30 min • Opportunities of natural infrastructure to improve resilience to floods in the city of Guayaquil (Luis Domínguez - ESPOL) - 30 min • Questions to the speakers (Moderator: Reinaldo Peñailillo - Deltares) - 30 min 	<p>April 13 16:30 GMT+1 10: 30 GMT-5 11:30 GMT-4 12:30 GMT-3</p>
<p>Watersheds and droughts - the case of the Limarí river basin</p> <ul style="list-style-type: none"> • Establishing the context (To be confirmed) - 30 min • The case of Limarí (Reinaldo Peñailillo - Deltares) - 30 min • Questions to the speakers (Moderator: to be confirmed) - 30 min 	<p>TO BE CONFIRMED</p>

CRIDA hands-on training with case studies

The objective of the training is the practical application of the knowledge learned in the online course to a specific case identified by the participants. This modality is especially focused on professionals from the Latin American and Caribbean region. It has a maximum of 40 participants and four live question and answer (Q&A) sessions and exercises to be completed by the participants.

The application prior to the training should be made through this link: <https://bit.ly/3psDbah>, between May 20 and 26, 2022.

The necessary prerequisites are:

- Relevant experience in water resources management, whether in academia, public administration, or the private sector
- Interest in planning under uncertain climatic hazards
- Identification of a case study (problem, location) in which the CRIDA methodology will be implemented
- Completion of the course "Climate Risk-based Decision Analysis (CRIDA)" on the UNESCO Open Learning platform

The application must include a letter of motivation with the objective of justifying your selection to attend the training and a Curriculum Vitae.

The acceptance to this modality of the course will be communicated no later than June 10, 2022, by means of an e-mail. In addition, those who are selected and pass this modality will receive a certificate issued by Deltares. The training will take place between June 13 and July 22, 2022.

The training seeks the development of practical cases in LAC, three of these will have the opportunity to be presented during the closing event to be held online (date and link to be confirmed).

In summary, the dates to retain are:

- Applications: May 20 to 26, 2022
- Notice of Election: June 10, 2022
- Beginning: June 13, 2022
- End: July 22, 2022
- Closing Event: To be confirmed

Contact

More information can be provided by Reinaldo Peñailillo (reinaldo.penailillo@deltares.nl) and Paulina Ramírez (pm.ramirez-quevedo@unesco.org)