

ISNET Distance Training Course on “Developing and Exploiting Radar Altimetry to Measure Water Level Variability from Space”; 25-27 Aug 2024

Inter-Islamic Network on Space Sciences and Technology (ISNET) successfully conducted a specialized distance training course titled “*Developing and Exploiting Radar Altimetry to Measure Water Level Variability from Space.*” The course was delivered by Dr. Stefano Vignudelli, Senior Scientist at the Consiglio Nazionale delle Ricerche (CNR-IBF), Italy, and attracted around 35 participants from ISNET Member States, including researchers, PhD scholars, and government officials working in oceanography, hydrology, and water resource management.

The training highlighted the growing role of satellite radar altimetry in monitoring water level variability across oceans, coastal zones, and inland waters. Participants were introduced to the fundamental principles of radar altimetry, major satellite missions (past, present, and future), and data processing techniques tailored for different application domains. Particular emphasis was placed on the use of altimetry data in coastal and inland regions, where accurate water level information is essential for understanding climate change impacts and managing water-related hazards.

Through interactive lectures and applied examples, the course enhanced participants’ capacity to access, process, and exploit altimeter datasets for scientific research and operational applications. The training also contributed to strengthening a growing radar altimetry user community within ISNET countries, aligning with ISNET’s mandate to promote capacity building, knowledge sharing, and the peaceful utilization of space technologies for sustainable development and disaster risk reduction.

The screenshot displays a Zoom meeting interface. The main window shows a presentation slide titled "Satellite missions relevant to inland water monitoring". The slide is divided into two columns: "Optical and radar imaging missions" and "Radar altimetry missions". Both columns feature diagrams of satellite orbits and Earth's surface. Below the diagrams, a list of bullet points states: "Schumann and Domeneghetti show only those missions that are most commonly used in the bibliography on inland water studies" and "The present challenge is how to make the most use of the ever-increasing amount of data available from those satellite missions". The slide also includes a citation: "Courtesy: Schumann and Domeneghetti 2016" and a footer: "Training on Satellite Radar Altimetry, ISNET 25-27 August 2024".

On the right side of the Zoom window, there is a "Participants (36)" list. The list includes names such as Ahmedova Guel, Stefano Vignudelli (Co-host), Abdullah Alshuhamat - Jordan/RJGC, Afrah Iqay / Iraq, Aggarzyeva Salakhram, Aggarzyeva Salakhram, Ahmad Al-Nisour, Ahmed Abughdier, Alim ARK - TUA, Arif Hattain, Awa Ayed, Ayman Abdullazada, Ibaraa, dr Karam jasim Mohamed, Eng. Hala Al-Habibeh, Gulhat, hataj@JGC, and Hanan Khaled.RJGC. Each participant's name is accompanied by a small profile picture and a status icon.

At the bottom of the Zoom window, there is a toolbar with various icons for meeting controls, including "Mute", "Start Video", "Security", "Participants", "Chat", "Share Screen", "Summary", "AI Companion", "Pause/stop recording", "Show Captions", "Reactions", "App", "Whiteboards", "Notes", and "More". The "End" button is also visible.