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Hydrometry Group Special Edition – Center For Water Resources and Environmental Studies – São Carlos School Of Engineering – University of São Paulo – São Carlos, SP

The Hydrometry Group is part of the Center for Water Resources and Environmental Studies - CRHEA, located in the municipality of Itirapina-SP, near the Lobo reservoir (Broa), 25 km away from campus 1 of USP in São Carlos, SP. CRHEA belongs to the School of Engineering of São Carlos and provides the infrastructure for the postgraduate program in Environmental Engineering Sciences.

The activities in the Hydrometry Group began in 2001, with the objective of knowing the real capacity of exploration of the water systems. Currently, the group's mission is to investigate the causes that modify hydrological processes in drainage basins and how these changes can affect water availability and aquatic ecosystems in the multiple uses of water.

The Hydrometry Group, at that moment (2019), is composed of an associate professor, a guest professor, a postdoctoral fellow, 5 PhD candidates, 5 MSc candidates and a laboratory technician that mainly work in the qualitative and quantitative studies of water through laboratory analysis and use of computational tools. Former members of the group include 5 postdoctoral fellows, 19 PhDs, 28 MScs, 14 Scientific Initiation students and 60 undergraduate students that wrote their theses.

Researchers from the Hydrometry Group who were involved in this special edition of the Electronic Journal of Management, Education and Environmental Technology - REGET, work mainly with computational modeling and simulation, reservoir sedimentation, hydrosedimentology, hydrology, remote sensing applied to water resources, climatology and water resources management.

In this special edition, the papers approach subjects related to the work already developed by the researchers of the Hydrometry Group, however, they emphasize the following themes: spatio-temporal analysis of the risk of water pollution; sustainable urban drainage; surface runoff estimation; water and energy balance; climatic trend; hydro-sedimentological tool; regionalization of flow.

The team of researchers of the Hydrometry Group understands that integrated analysis of biophysical and socioeconomic systems in drainage basins can contribute to the challenges faced by water managers. Therefore, it is expected that the publication of these papers in this special edition of REGET will contribute to the planning and management of water resources and to scientific research.

The Hydrometry Group thanks the journal REGET for allowing the dissemination of the research developed by the group and the opportunity to transmit knowledge to other researchers and the general public.

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