Field Work Programme (TOPIC 5)

SITE	CORAL REEFS	WETLANDS
Coordinator	Ismael Mariño	Malva Mancuso
Objective	To estimate with oceanographic instrumentation wave attenuation by coral reefs. To estimate reef roughness coefficients with measured data.	To determine the interaction between groundwater and marine water.
Participants	1. Alejandro Astorga Moar 2. Diana Berriel 3. Alejandro Cáceres Euse 4. Francisco Fabián Criado Sudau 5. Johann Khamil Delgado Gallego 6. Angélica Felix Delgado 7. Juan David Osorio-Cano 8. Ana Patricia Ruiz Beltran	1. Jessica Formentini 2. Laíssa Baltazar 3. Cesia Jaqueline Cruz Ramírez 4. Johnny Ferreira 5. Sanaz Hadadpour 6. Angel Kuc Castilla 7. Yandy Rodríguez 8. Arlett Rosado Torres 9. Babette Scheres 10. Silke Andrea Judith Tas 11. Karoline Angélica Martins 12. Débora Lithgow
Activities	September 21 and September 22, 19:00 – 19:30 5.1. Preparatory course for field work	
	· Learn to program and communicate with velocimeters. · Learn to program and communicate with oceanographic instruments.	· Theory of the methods to be used.
	September 23, 09:00 – 18:00 5.2. Monitoring and visits to selected sites	
	· Install instruments before and after the reef. · Install instruments on floating platform. · Perform cross-shore profiles of bathymetry.	· Water quality and levels sampling
	September 25 and September 26, 19:00 – 19:30 5.3. Field data processing and analysis	
	· Download data from instruments, and learn basic data processing (spectra, cross-spectra). · Calculate attenuation of wave energy. · Calculate roughness coefficients.	· Work with the data collected.
INST	2 Acoustic doppler velocimeters (VECTORS), diving gear (2), buoys. Acoustic doppler velocimeters (M9), Differential GPS, CTD, GoProCamera.	2 GPSMap, Multiparameter HANNA, 2 CTD data loggers

Summer School on Integrating Ecosystems in Coastal Engineering Practice
INECEP

SITE	BEACH	DUNES
Coordinator	Pedro Pereira	Marisa Martínez
Objective	To show the students how the beach natural behaves and how it interacts with different coastal ecosystems, such as reef, dunes and watersheds.	To study the impact of infrastructure development on coastal dune communities, considering the vegetation cover, the cover of different forms of growth, types of communities, functional groups, invasive, vegetation height, wealth and diversity of the community.
Participants	1. César Acevedo Ramirez 2. Marianella Bolívar Carbonell 3. Valeria Chávez Cerón 4. Oriana Daza Brito 5. Mireille del Carmen Escudero Castillo 6. Manuela König 7. Iris Neri-Flores 8. Débora Libertad Ramírez Vargas 9. David Sanchez 10. Aalaa Amr 11. Luis Fernando López Arias	1. Román Canul Turriza 2. Saber Elsayed 3. Alejandra Gijón Mancheño 4. Talia Schoonees 5. Gabriela Buraschi 6. Nadia Selene Zamboni 7. Weiwei Zhou 8. Karla Salgado 9. Izchel Gómez Hernández 10. Carmelo Maximiliano 11. Sahar Mokhtari
Activities	September 21 and September 22, 19:00 – 19:30 5.1. Preparatory course for field work	
	· Theory of the methods to be used.	· Theory of the methods to be used.
	September 23, 09:00 – 18:00 5.2. Monitoring and visits to selected sites	
	· Identification of coastal morphology: their characteristics, formation and hydrodynamical processes. · Sedimentology: properties, composition, source and shape. · Measuring morphology: usage of cinematic GPS. · Measuring hydrodynamics: usage of a ADCP. · Ecosystem connectivity: dune-beach-reef interaction. · Natural and Non-natural structures interaction.	· Vegetation sampling.
	September 25 and September 26, 19:00 – 19:30 5.3. Field data processing and analysis	
	· Work with the topographic and hydrodynamical data collected.	· Work with the data collected.
INST	RTK GPS, rode, ADCP.	