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Certified project



International Joint call on Sargassum, 19/10/24, CWTC Guadeloupe



















The consortium – 10 partners

- **MIO** (Mediterranean Institute of Oceanography) Marseille
- **LEMAR** (Marine Environmental Science Laboratory) Brest
- **AD2M** (Adaptation and Diversity in Marine Environments) Roscoff
- ISYEB (Institut de Systématique, Evolution, Biodiversité) Paris
- **LEGOS** (Lab. Etudes en Géophysique et Océanographie Spatiales) Toulouse
- **BOREA** (Biology of Aquatic Organisms & Ecosystems) Pointe-à-Pitre
- Suez consulting/Safege SAS Cayenne Pointe-à-Pitre Fort-de-France – S^t Barthelemy
- **Eckerd College** St Petersburg Florida
- **SEA** (Sea Education Association) Woods-Hole Massachusetts
- **TAMUG** (Texas A&M University at Galveston) Galveston Texas



















Aims

- Identify the Sargassum species growing in North Atlantic,
 - determine to what extent the species co-occur,
 - with particular focus on the recent expansions
- Study the connectivity of Sargassum at the Atlantic-scale,
 - with a focus on the fluxes & exchanges,
 - comparing historical Sargasso Sea & the 'new' area of proliferation

Trace the Carbon & Nitrogen pathway within the Sargassum









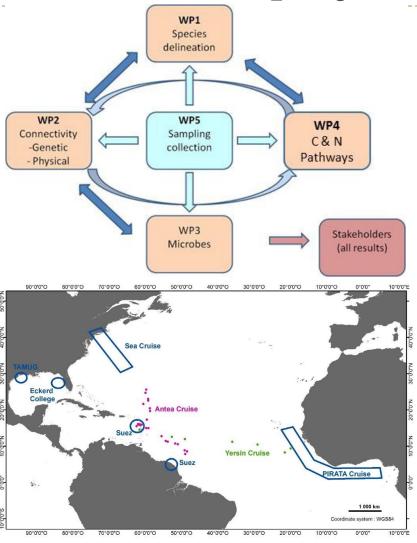








Management of the project



















Research questions addressed

- How many species are involved? What are the evolutionary consequences for the Sargassum genus?
- Are the pelagic Sargassum (fully) clonal?
- Are North & South Sargassum populations connected?
- Do microbes assemblages are good tool to detect the origin of the Sargassum raft?
- ▶ What is the origin of C & N in Sargassum: oceanic or terrestrial?

















Added value/dissemination/perspective for development

- A complementary consortium has been involved in Sargassum studies since 2015
- ORIGINS is linked to SAVE-C & FORESEA projects
- Transfer of knowledge to private companies
- Dissemination

