



Country / City ..... United Kingdom / Edinburgh

University / School ..... University of Edinburgh/Edinburgh School of Architecture and Landscape Architecture

Academic year ..... 2017 - 2018

Title of the project ..... ΦΥΚΟ-CULTURISTIC LANDSCAPES\_towards an algae culture

Authors ..... Theoni Zompola





# PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior

d'Arquitectura de Barcelona

Avenida Diagonal, 649 piso 5

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## TECHNICAL DOSSIER

Title of the project ΦYKO-CULTURISTIC LANDSCAPES\_towards an algae culture  
Authors Theoni Zompola  
Title of the course Individual Landscape Portfolio  
Academic year 2017 - 2018  
Teaching Staff Lisa Mackenzie, Elino Scarth  
Department/Section/Program of belonging Edinburgh School of Architecture and Landscape Architecture / Landscape Architecture (MLA)  
University/School University of Edinburgh / Edinburgh College of Art

Written statement, short description of the project in English, no more than 250 words

.....The Messolonghi Lagoon complex is located in the west part of Mainland Greece and is the biggest shallow coastal lagoon....  
in Greece. The study area extends over 33.687 ha. It is included in the Ramsar Convention on Wetlands since 1975 (GR2310001) (RSIS,...  
2017), the NATURA 2000 Network (GR2310002) and the Montre list since 1990 as an endangered important ecological area.

.....The proposal focuses at the Kleisova lagoon which is located at the east part of the site. It is in close proximity with the city  
of Messolonghi at the North and large areas of arable land on the East. On the West and South part of the site illegal summer settle-  
ments have been established creating the Tourlida community.

.....The project aims to introduce a new culture and economic source for the city of Messolonghi which is evolved around algae. Algae are  
able to grow and survive in all the different landscapes existing around the lagoon. Their value is also recognized globally both for its  
ecological importance, since they produce the 70% of oxygen in the atmosphere, but also for its sustainability as a construction mate-  
rial, its nutritional constituents as a food source and its economical importance as the link to food chain, fertilizer, food etc.

.....ΦYKO-culturistic landscapes is exploring the different uses of algae in six (6) different scales in six (6) different sites around  
the Kleisova lagoon, from the global scale, as an atmospheric cleanser, down to 1:1 scale of the algae's aesthetic value.

For further information

**Máster d'Arquitectura del Paisatge -DUOT - UPC**

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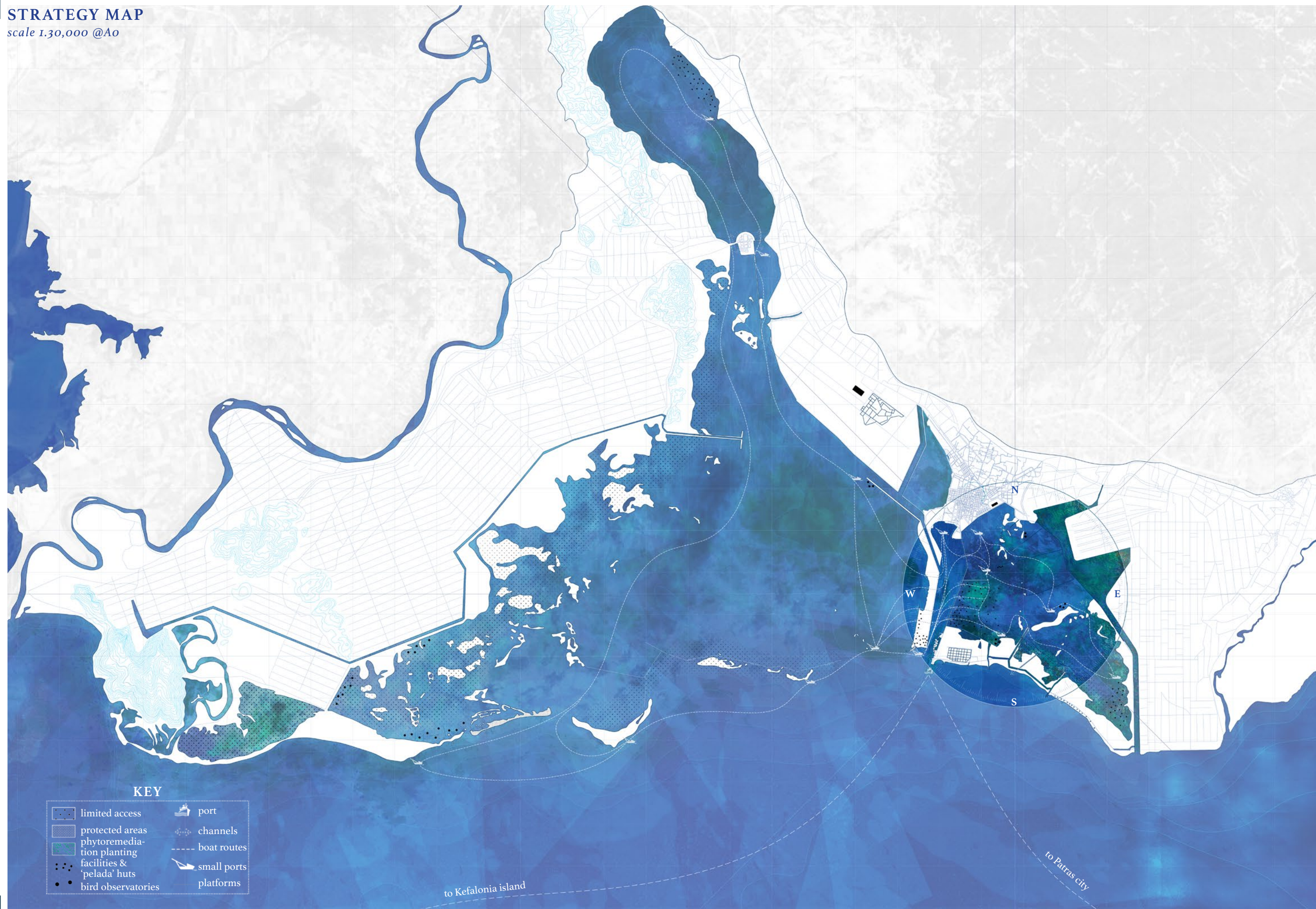
Contact via email at: [biennial.paisatge@upc.edu](mailto:biennial.paisatge@upc.edu)

Consult the web page <http://landscape.coac.net/>



# STRATEGY MAP

scale 1:30,000 @A0



## KEY

- |                            |             |
|----------------------------|-------------|
| limited access             | port        |
| protected areas            | channels    |
| phytoremediation planting  | boat routes |
| facilities & 'pelada' huts | small ports |
| bird observatories         | platforms   |

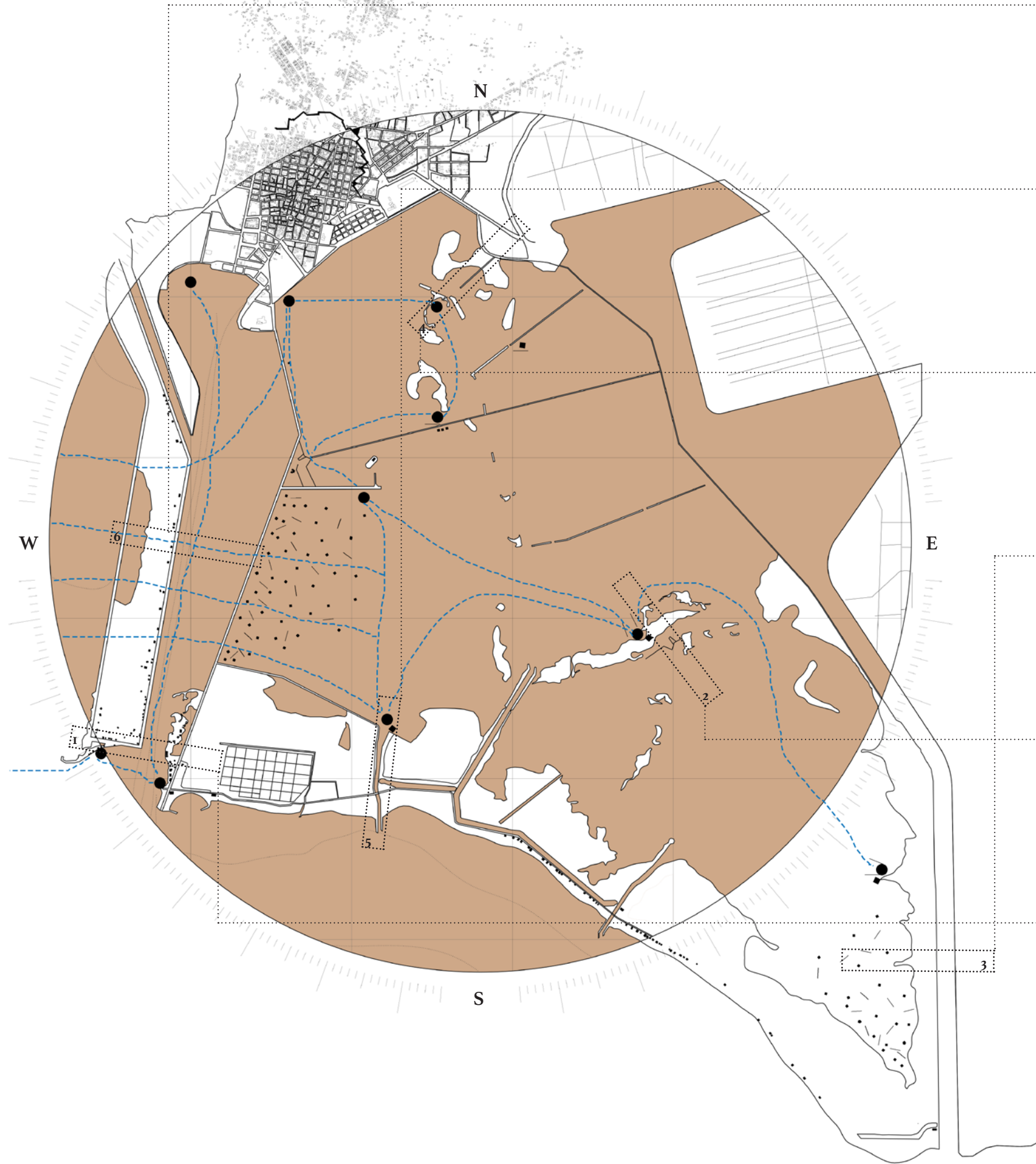
to Kefalonia island

to Patras city



# MASTERPLAN

scale 1:10,000 @A1



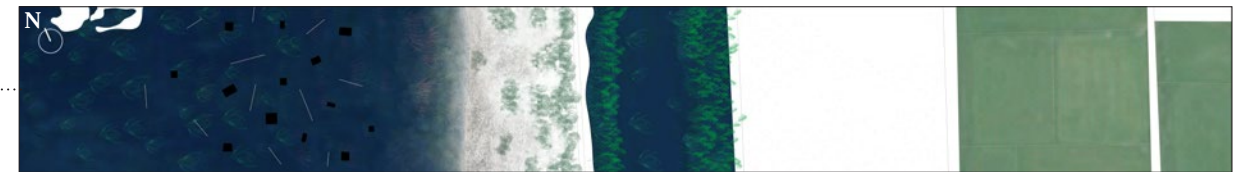
06. ALGAE'S AESTHETIC VALUE



05. ALGAE AS A CONSTRUCTION MATERIAL  
[ZOSTERA MARINA]



04. EDIBLE ALGAE  
[ASPARAGOPSIS TAXIFORMIS]



03. ALGAE AS A FERTILIZER  
[ZOSTERA MARINA]



02. ALGAE AS A BAIT  
[CLADOPHORA SP.]



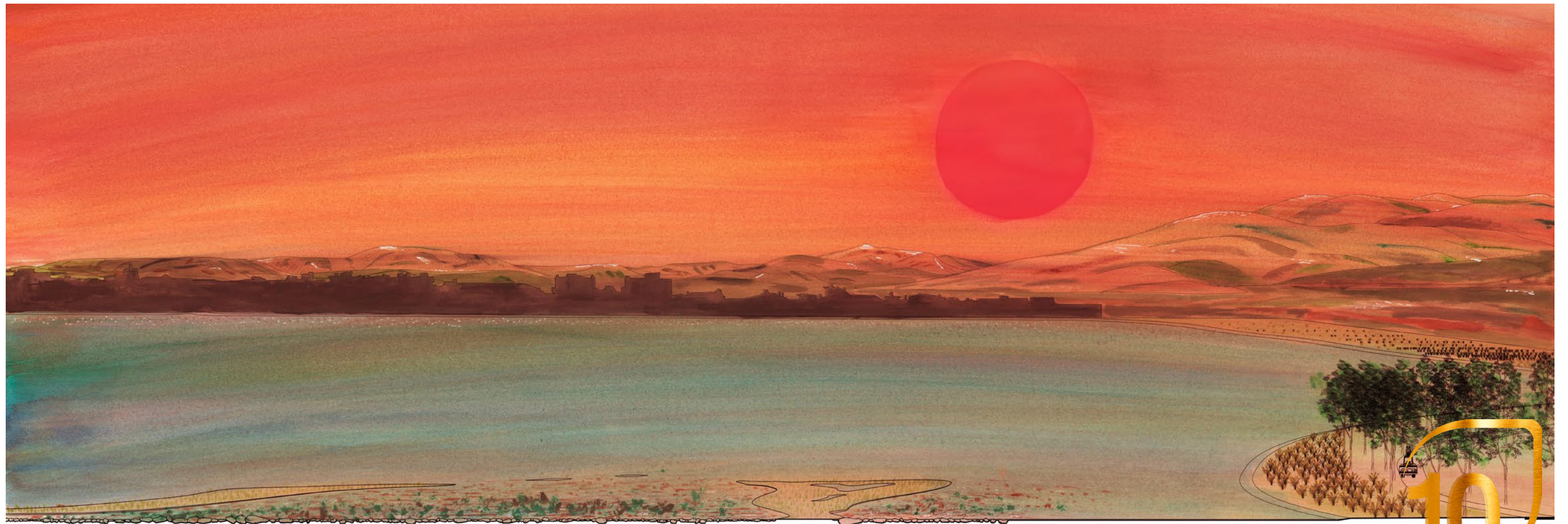
01. ALGAE AS AN ATMOSPHERIC CLEANSER  
[PHYTOPLANKTON]

Transects scale 1:1,000 @A0





Perspective section\_Transect 5  
scale 1.75 @A0



Perspective section\_Transect 4  
scale 1.200 @A0