



Country / City Santiago, Chile
University / School Landscape and Sustainability Observatory, Diego Portales University. OPS.UDP.
Academic year 2019
Title of the project Biodiversity management and conservation system.Santa Rosa streams
Authors Josefina Antúnez

TECHNICAL DOSSIER

Title of the project Biodiversity management and conservation system Santa Rosa streams
Authors Josefina Antúnez
Title of the course Graduate project workshop
Academic year 2019
Teaching Staff Pamela Zuñiga
Department/Section/Program of belonging Territory and landscape area
University/School Landscape and Sustainability Observatory, Diego Portales University. OPS.UDP.



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

The Yali Wetland (RAMSAR World Reserve) currently has 2 of its 3 dry lagoons, in the absence of water regime and climate change. Due to these problems, the project seeks to create an efficient management and conservation system for its closest environment (Quebrada Santa Rosa), taking advantage of the conditions to activate and regenerate ecosystems. In order to reduce and mitigate the causes of degradation, and taking into account the climatic, geological and natural conditions in the area and its immediate surroundings (El Yali Wetland, RAMSAR Area). The proposal consists of the efficient Management of the Water Resource as the main premise, through a park for the protection and conservation of the Biodiversity of the Quebrada. Which houses water collection areas, germination areas, protection areas, native forests, study and analysis area, recycling and compost, insects, among others. In turn, creating a circular system between the community, fertility and land use, research, protection, development and management of vegetative communities (endemic, osmoregulatory, low water consumption, and tolerant to water stress), and maximum use of the waters in all their forms of expression (dew, fog, coastal trough, evapotranspiration and rain) through a water collection system.

In order to create a Biodiversity Production Area and study of the behavior of vegetative and animal species, soils, macro and micro invertebrates, and how these elements can contribute to greater moisture retention, maximum use of water, and training Replicable study and intervention model throughout the country, according to the specific conditions of each area.

For further information
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CLIMATE CHANGE AGAIN

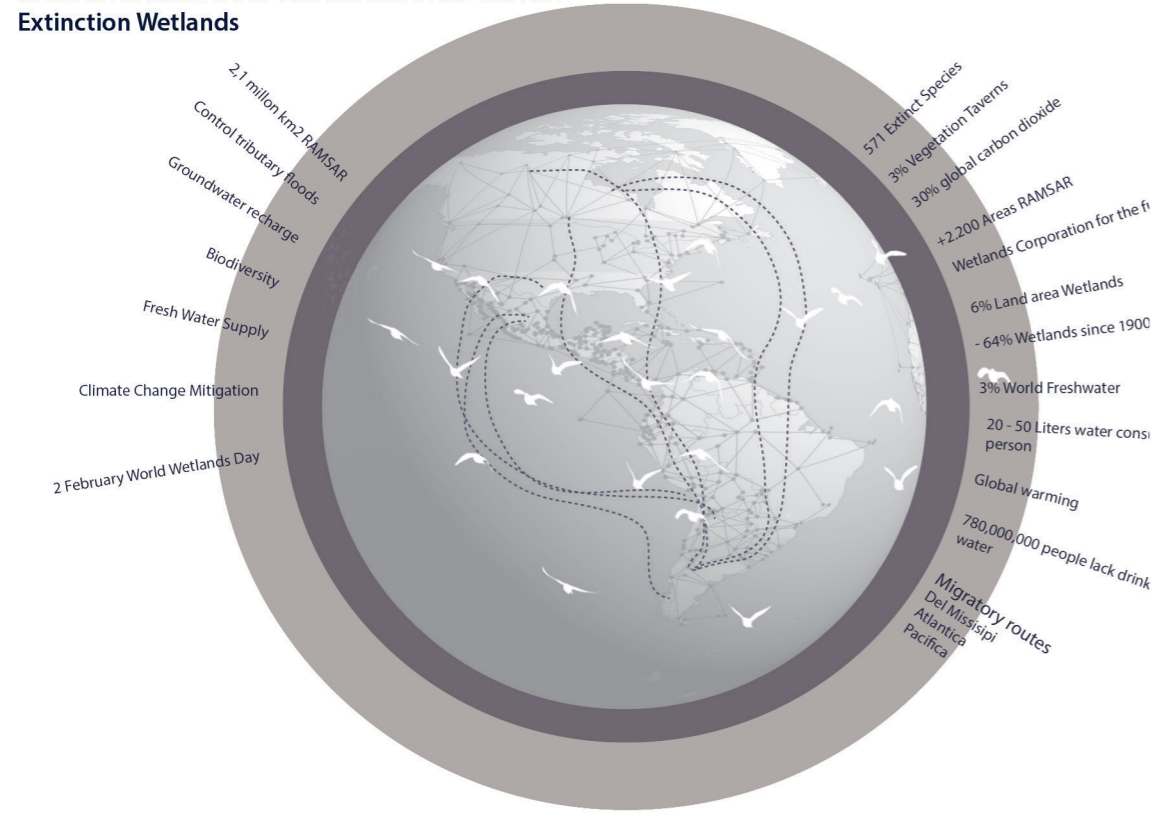
11th International Biennial Landscape Barcelona

Barcelona September 2020
SCHOOL PRIZE

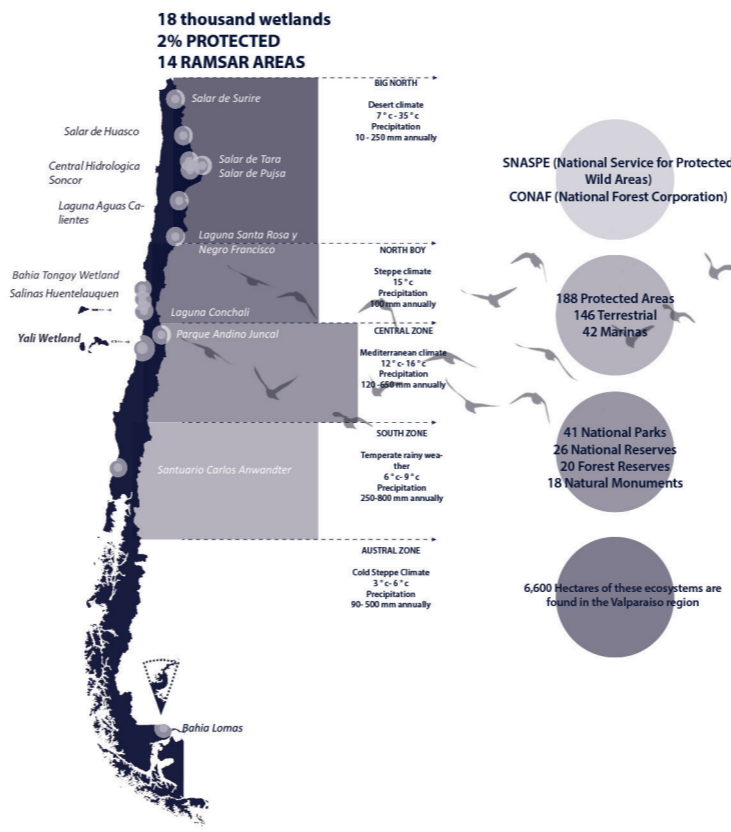
PARQUE DE PROTECCIÓN Y CONSERVACIÓN DE LA BIODIVERSIDAD / BIODIVERSITY MANAGEMENT AND CONSERVATION PARK



CLIMATE CHANGE AND ENVIRONMENTAL IMPACT

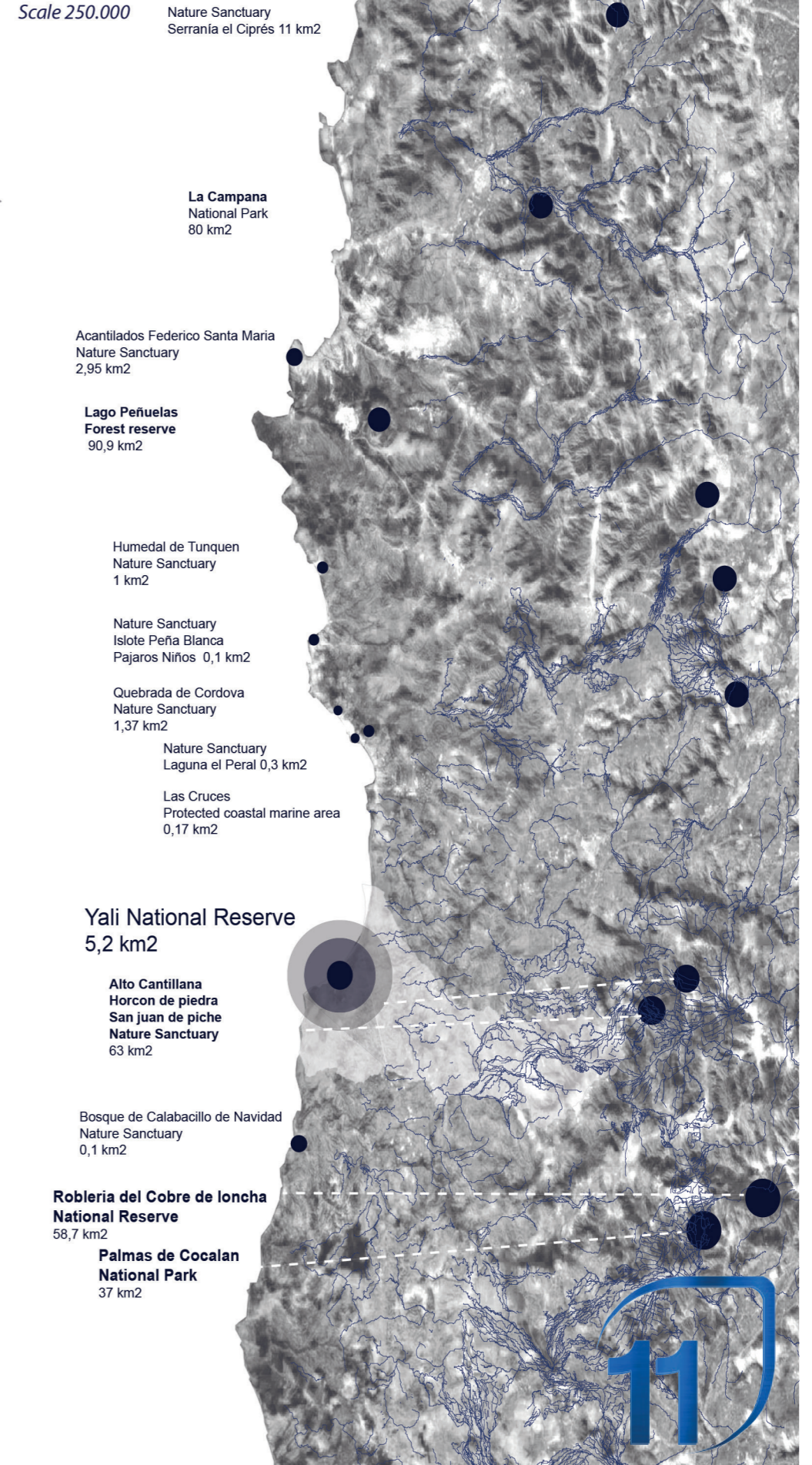


CHILE

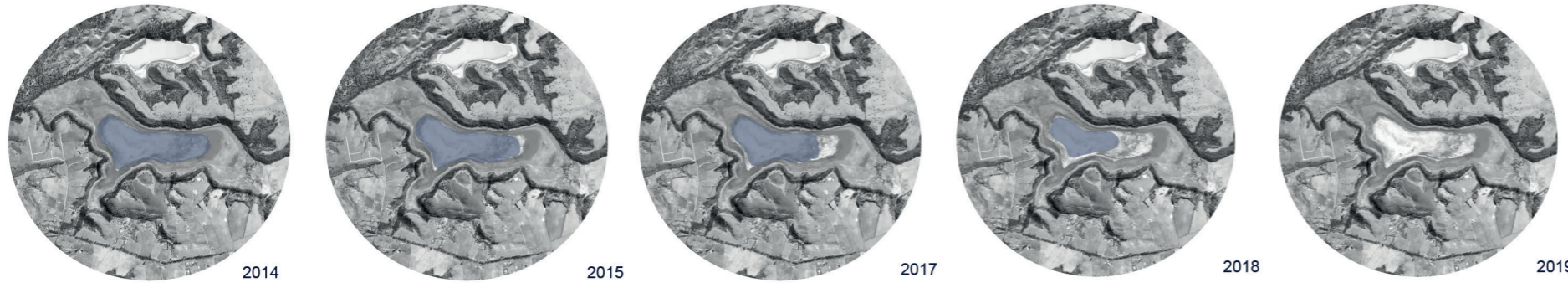


NATIONAL RESERVES / SANCTUARIES

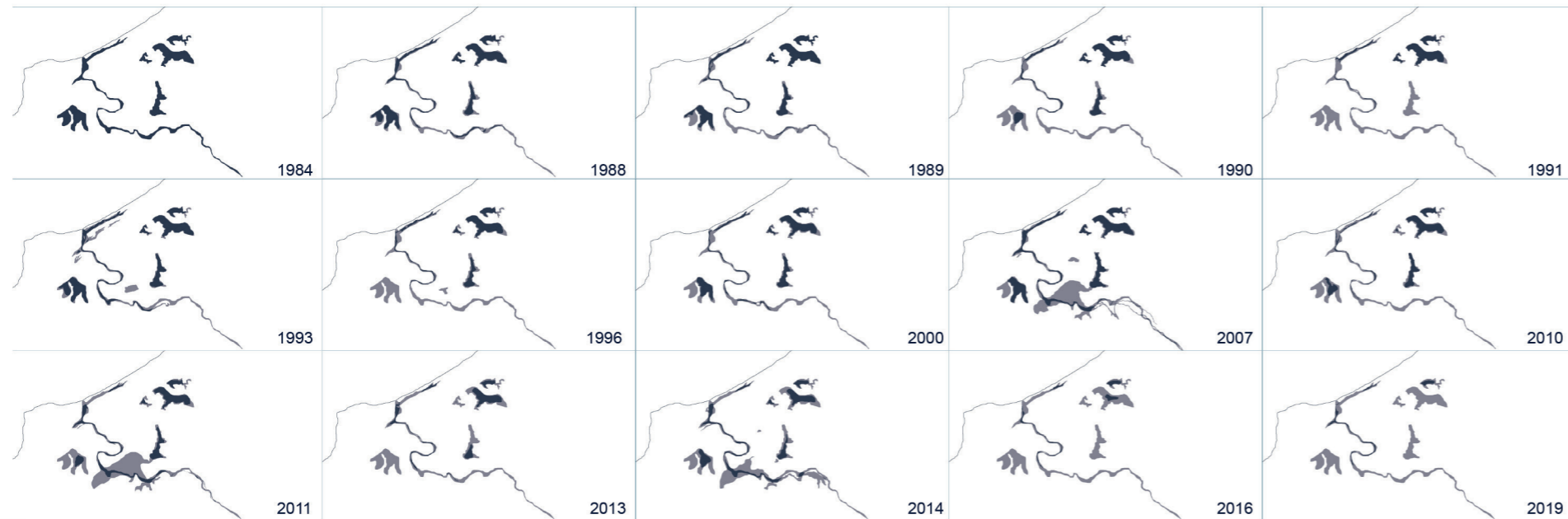
Scale 250.000



Transition last years Laguna Matanza (128 hectares)



Annual transition El Yali water reserve

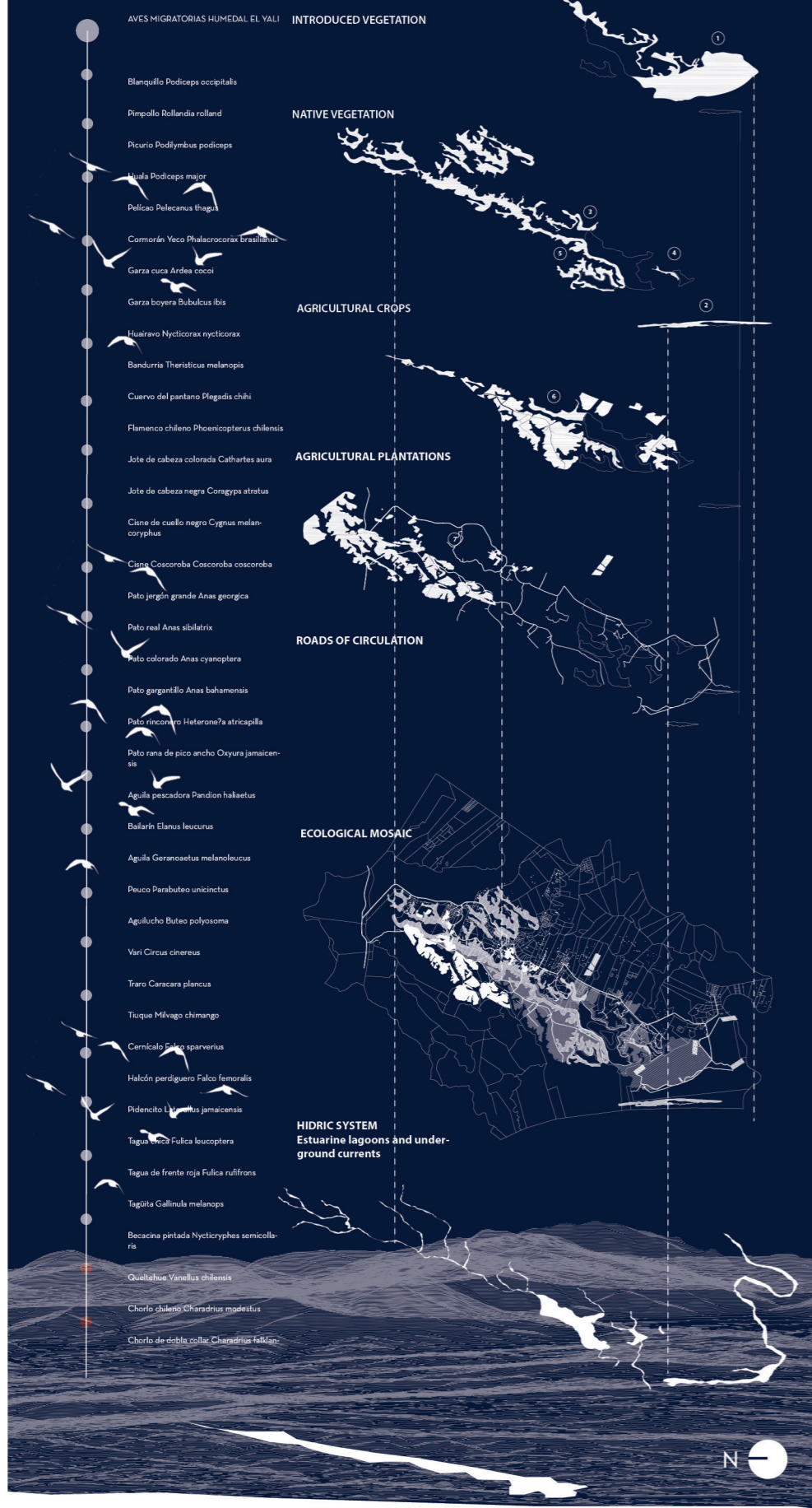


PARQUE DE PROTECCIÓN Y CONSERVACIÓN DE LA BIODIVERSIDAD / BIODIVERSITY MANAGEMENT AND CONSERVATION PARK

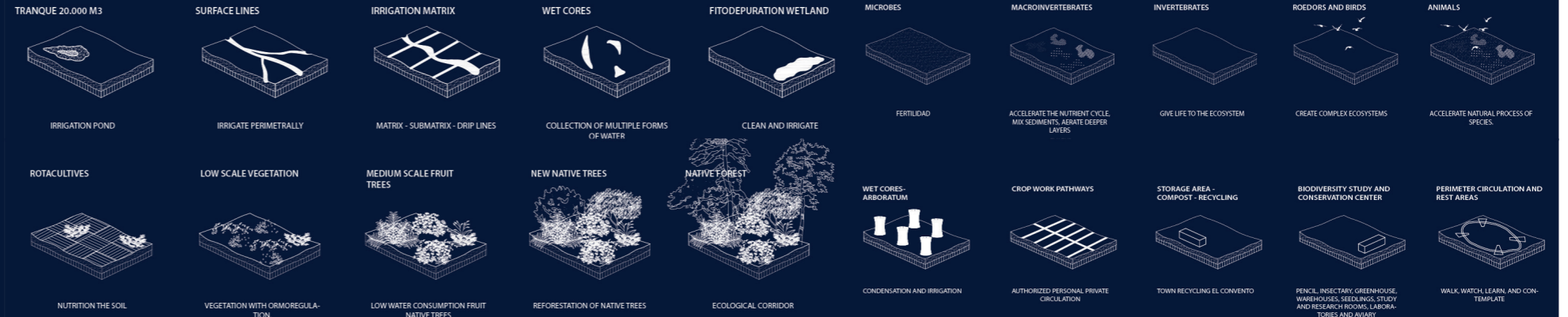


TERRITORIAL BREAKDOWN RESERVE EL YALI

Escala 1/20.000

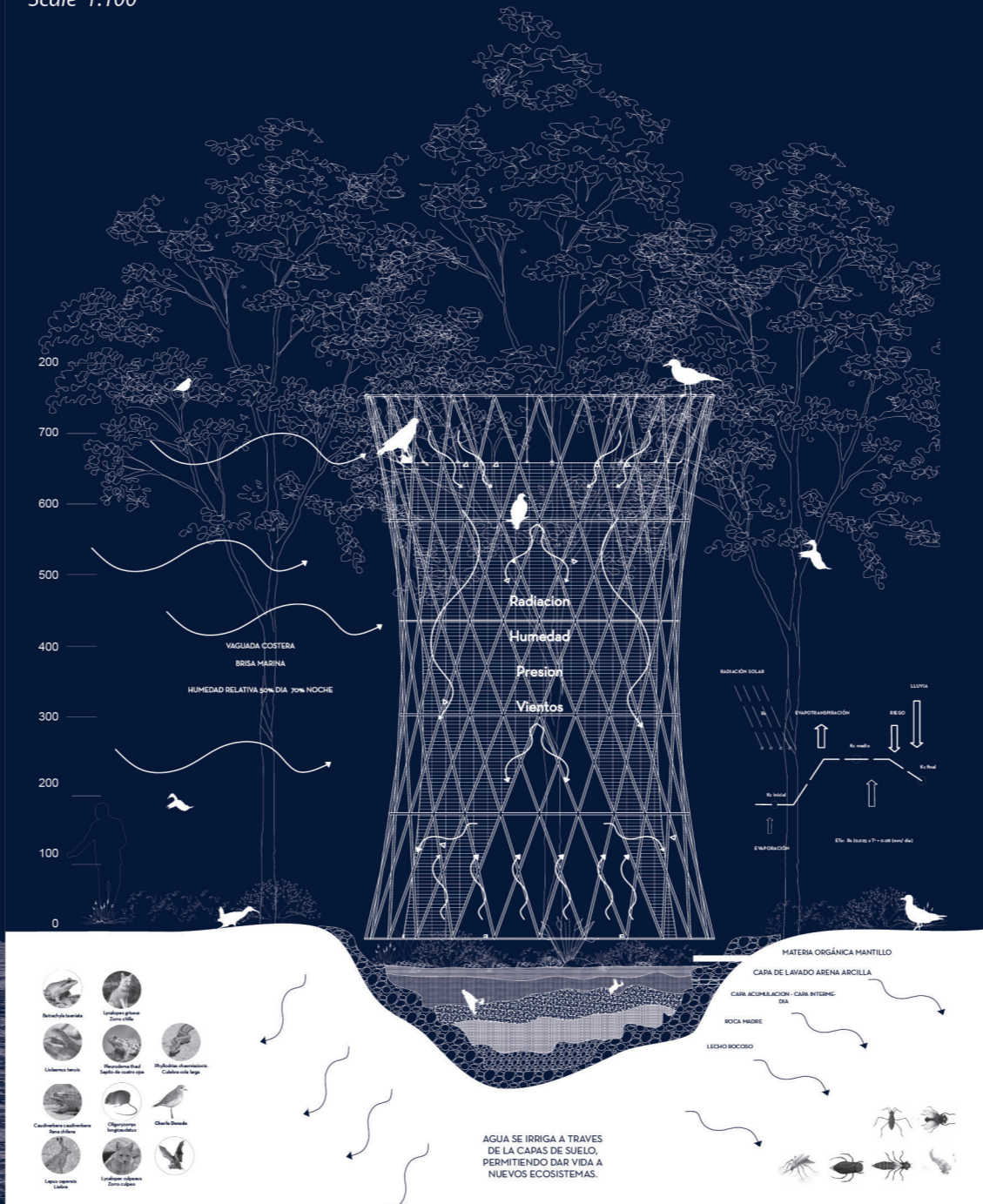


Annual transition El Yali water reserve

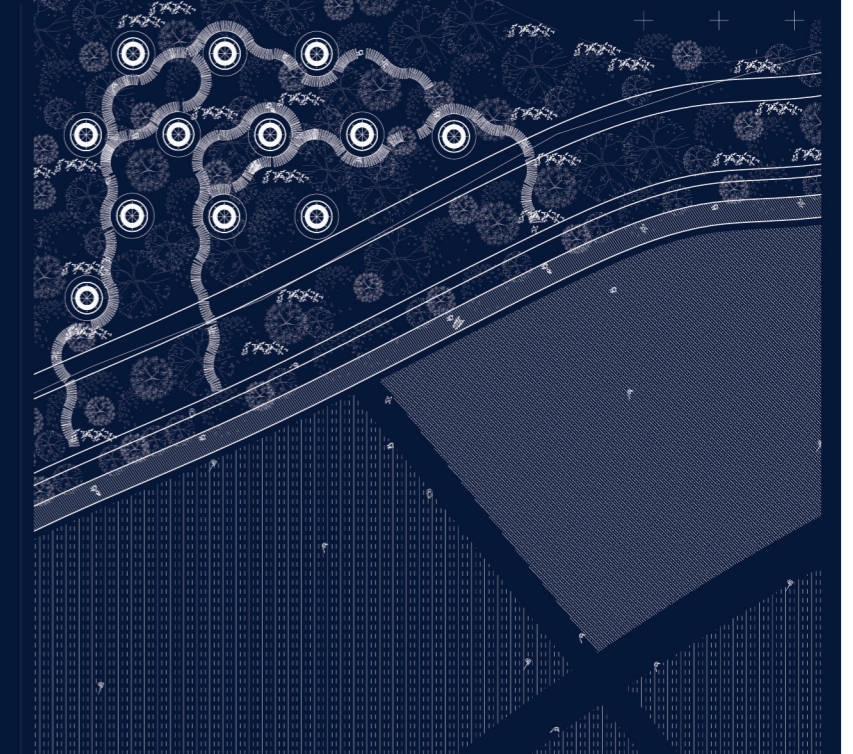


CUTTING WATER COLLECTION SYSTEM

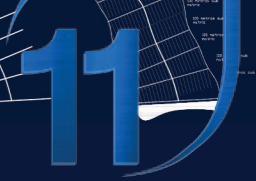
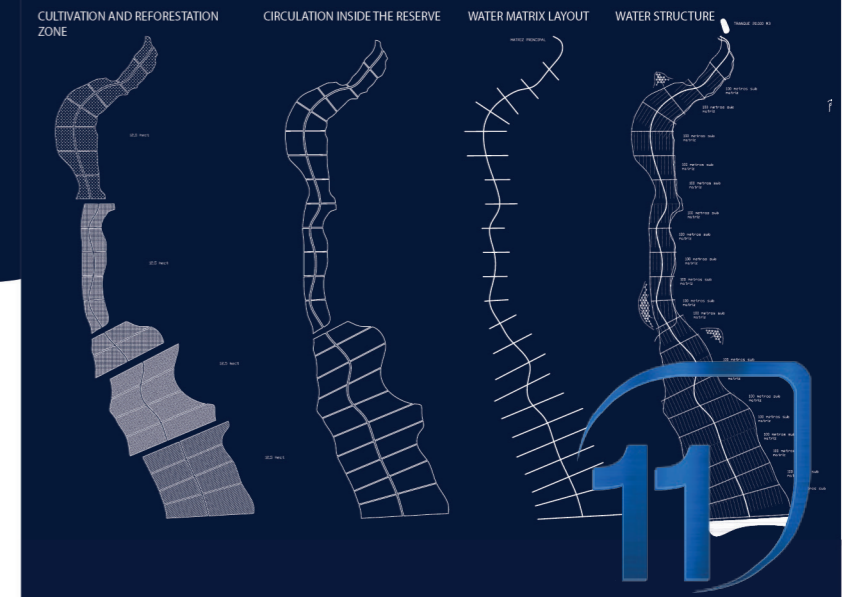
Escala 1.100



WATER COLLECTION AREA / Scale 1.250



PROJECTUAL MORPHOLOGY / Scale 1.2500





Crop System



Core of Biodiversity



Soil status YALI Wetland



Water condition YALI Wetland



Lagoon Matanza YALI wetland



Quebrada Santa Rosa



Lagoon Matanza YALI wetland



Native forest Quebrada Santa Rosa



YALI wetland