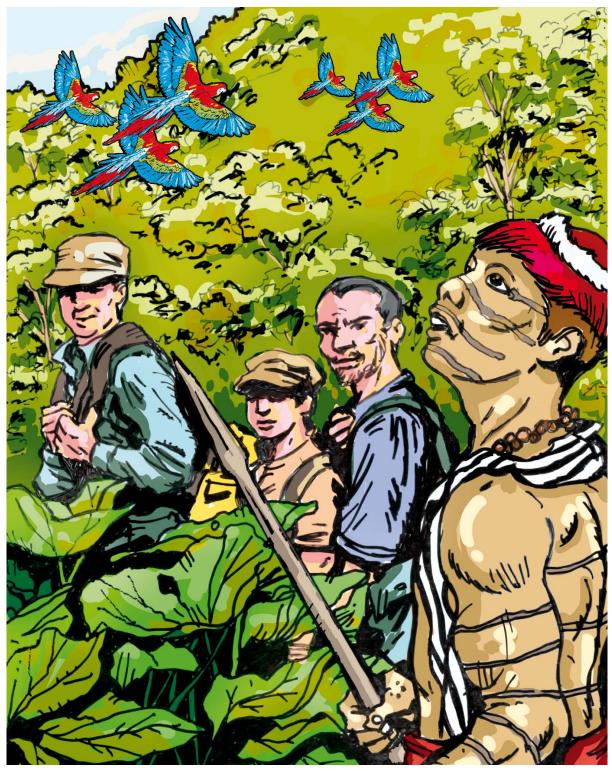


INTERNATIONAL CAMPUS OF EXCELLENCE

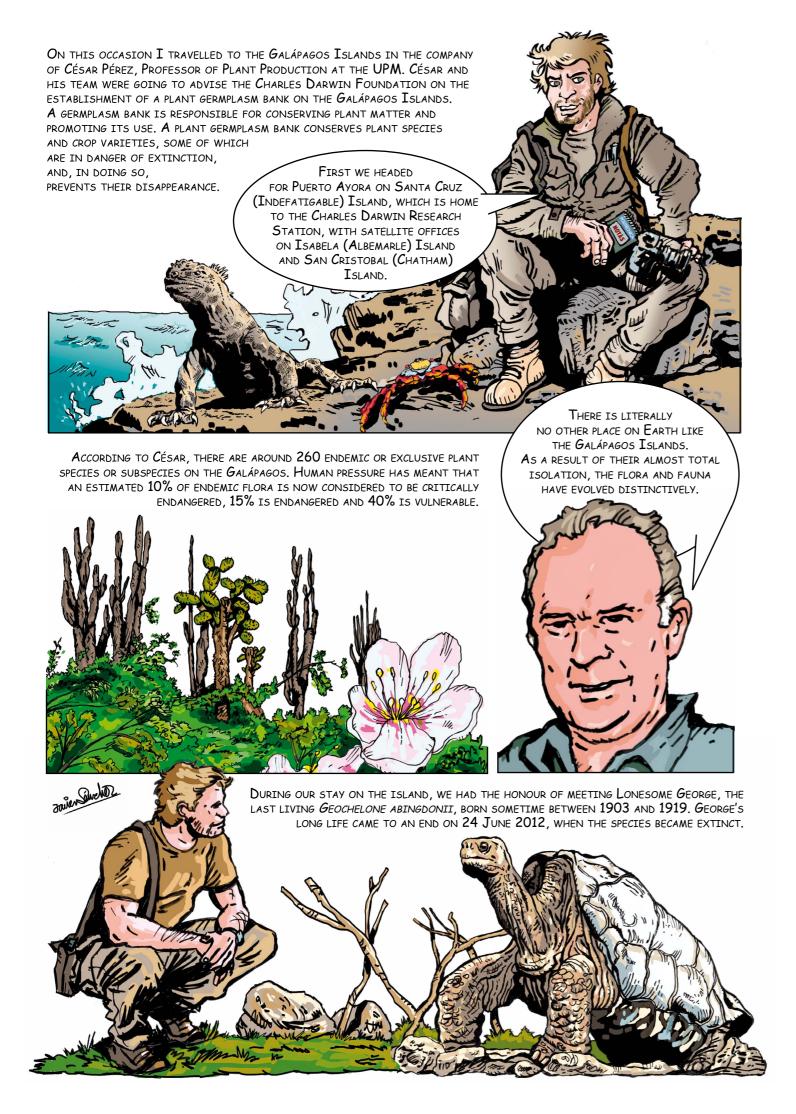


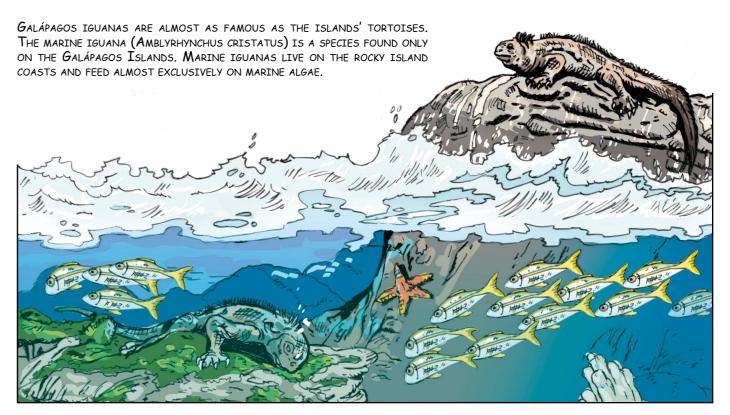


Ecuador Project

PHYTOGENETIC RESOURCE MANAGEMENT AND CONSERVATION

BIODIVERSITY AND PHYTOGENETIC RESOURCES RESEARCH GROUP School of Agricultural Engineering (Escuela Técnica Superior de Ingenieros Agrónomos)



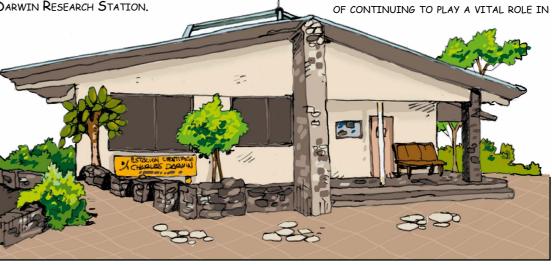


THE UPM BIODIVERSITY AND PHYTOGENETIC RESOURCES RESEARCH GROUP'S PROJECT WAS TO PAVE THE WAY FOR THE ESTABLISHMENT OF A MODERN AND PERMANENT PLANT GERMPLASM BANK, EQUIPPED WITH MATERIAL AND HUMAN RESOURCES TO GUARANTEE THE CONSERVATION OF UNIQUE PLANT MATTER OF INCALCULABLE WORTH. IT NOW SAFEGUARDS SEEDS OF ENDEMIC GALAPAGEAN PLANT POPULATIONS THAT ARE IN DANGER OF EXTINCTION: SCALESIA ATRACTYLOIDES, CALANDRINIA GALAPAGOSA, OPUNTIA GALAPAGEIA AND LECOCARPUS DARWINII. WITH THIS OUR WORK WAS COMPLETE, WE HAD MET THE PLANNED OBJECTIVES AND WE BADE FAREWELL TO THE ${\it C}$ HARLES DARWIN RESEARCH STATION.



As we travelled away from what are known as the Enchanted Islands, I was reminded again and again of the good job that the UPM staff had done.

Their research had further added to the Galapagos Islands' chances of continuing to play a vital role in the future of humanity.



THE GROUP'S NEXT RESEARCH PROJECT, ECUADORIAN AMAZON PLANT CONSERVATION, TOOK US TO THE PODOCARPUS NATIONAL PARK, A UNESCO WORLD HERITAGE SITE AND ONE OF THE REGIONS WITH THE HIGHEST BIODIVERSITY RATES ON THE PLANET.



PODOCARPUS NATIONAL PARK COVERS 1462.80 KM², FROM THE SPURS OF THE EASTERN RANGE OF THE ANDES TO THE BASINS OF THE NANGARITZA. NUMBALA AND LOYOLA RIVERS. ABOUT 85% OF THE PARK IS IN THE PROVINCE OF ZAMORA CHINCHIPE AND THE REMAINING 15% IN THE PROVINCE OF LOJA. THE NATIONAL PARK WAS SET UP TO PROTECT THE COUNTRY'S LARGEST ROMERILLO FOREST, COMPOSED OF THREE SPECIES OF THE PODOCARPUS GENUS, Ecuador's ONLY NATIVE CONIFER, WHICH GIVES ITS NAME TO THE PARK. IT IS ALSO HOME TO THE CINCHONA OR QUINA, THE NATIONAL TREE OF ECUADOR, A HIGHLY PRIZED SPECIES WHOSE BARK IS USED TO EXTRACT A MALARIA CURE. SOME 4000 PLANT SPECIES, INCLUDING COUNTLESS ORNAMENTAL ORCHIDS, POPULATE THE PARK.

Another of the projects run by César and his team was to counsel the Pontificia Universidad Católica de Ecuador on how to enhance conservationism at its Botanical Garden on the Santo Domingo campus in the province of Santo Domingo de los Tsáchilas. The researchers' mission was not without perils, as the region is riddled with snakes, especially a dangerous and deadly viper (Bothrops

ATROX), POPULARLY KNOWN AS X.



CÉSAR, HIS TEAM AND MYSELF
CAME AWAY FROM ECUADOR WITH
THE SENSE OF A GOOD JOB DONE AND THE
IMPRESSION THAT, THROUGH ITS MANY
STUDIES OF BIODIVERSITY AND PLANT
POPULATION CONSERVATION,
THE UNIVERSIDAD POLITÉCNICA DE MADRID
HAD BROUGHT US A STEP CLOSER TO
ASSURING THAT THE WORLD'S NATURAL
RESOURCES WILL SURVIVE FOR THE
ENJOYMENT OF GENERATIONS
TO COME.

THE PROVINCE IS NAMED AFTER A PRE-INCAN PEOPLE KNOWN AS Tsáchila or Colorado (MEANING COLOURED RED) AFTER THEIR CUSTOM OF PAINTING THEIR BODY AND HAIR WITH ACHIOTE. THIS ETHNIC GROUP IS DIVIDED INTO EIGHT COMMUNES WITH THEIR RESPECTIVE TRIBAL CHIEFS OR MIYAS. THEIR SHAMANS OR PONÉS ARE MASTERS OF THE ART OF USING NATURAL RESOURCES FOR MEDICINAL AND RITUAL PURPOSES.







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