



## **BASES AND METHODS OF THE COLLECTIVE PROJECT AGRONOMY & CLIMATE CHANGE**

### **1.- AIMS AND SCOPE OF THE COLLECTIVE PROJECTS**

#### **1.1. Collective Project**

The general objective is to obtain collective publications with the work and collaboration of people specialized in Plant Production, Plant Health and Plant Protection from different parts of the world. In the International year of Plant Health it is a good reason to collaborate and carry out a small contribution with a global focus.

#### **1.2.- Non-governmental project.**

Without the aim of underestimating the excellent work carried out by the different administrations that carry out projects concerning Plant Health as well as Plant Production, the present project, as well as each of the projects and publications carried out by the private consultants CONSULTORÍAS NOROESTE S.C., has no type of government economical funds. It is open to the collaboration with people that work at the different governments and administrations but not with governments.

#### **1.3.- Without public funds.**

All of the collaborators would obtain, for the collaboration, the co-authorship of all of the publications obtained from the project, a free copy of all of them, and, on certain situations, a free bonus for the purchase of publications of the consultants CONSULTORÍAS NOROESTE S.C.. The project has no type of public or private economical funds and the collaborators will not receive any type of economical fee for the collaboration.

## **2.- PROJECT BACKGROUND**

Climate agents are one of the main causes of diseases of the forest masses in the world, rising up to 45 % of the total causes of disease. On agricultural crops the percentage is not so high but significantly increasing on the last decades due to climate change.

The population most negatively affected by climate change are the agents of the primary sectors in the world, the fishing sector as well as the agricultural sector. On the agricultural sector of certain countries the lack of water makes agriculture and livestock farming completely impossible which leads to a worse CO<sub>2</sub> balance. On temperate climate countries this does not take place but climate irregularity is the cause of a higher risk of abiotic diseases on crops, most of them not always considered as related to climate change. A thirty year experience monitoring crops on the north hemisphere, leads me to declare that abiotic diseases – phytotoxicities, physiological diseases, climate accidents as well as nutrient deficiencies – are increasing significantly, in my opinion, due to climate change.

Frequent temperature and humidity oscillations on crop environment oblige farmers to set out high irrigation technology, with the lack of which increases in the incidence of physiological diseases as well as of nutrient deficiencies take place. These frequent temperature oscillations may lead to the incorrect application of insecticides and acaricides leading to phytotoxicities. On the other hand, climate accidents may lead to crop injures that may be irreparable. All of these situations are, directly or indirectly caused by climate change. The knowledge of abiotic diseases symptoms, as well as of the ways of preventing or correcting them is essential for crop production under climate change. This plant production is also essential for the set of rural population which is also essential for the fighting against climate change.

## **3.- SPECIFIC OBJECTIVES OF THE PROJECT**

The project has the following specific objectives:

- 1.- Carry out a global data base of crop abiotic diseases worldwide. The data base will be written in English language.

2.- Write a digital visual guide of symptoms of crop abiotic diseases worldwide to be written in English language, edited and published by CONSULTORÍAS NOROESTE S.C.

3.- Write a digital visual guide of symptoms of crop abiotic diseases worldwide to be written in Spanish language, edited and published by CONSULTORÍAS NOROESTE S.C.

4.- Write technical and scientific reviews of crop abiotic diseases worldwide grouping them in the following way:

- Crop physiological diseases
- Macronutrient crop deficiencies
- Micronutrient crop deficiencies
- Climate accidents
- Fungicide phytotoxicities
- Insecticide phytotoxicities
- Acaricide phytotoxicities
- Herbicide phytotoxicities
- Nutrient toxicities

The scientific publications will be written in English language and the technical publications in Spanish and they will all be published in the issue PROFESSIONAL PLANT PROTECTION. The consultants will publish at least one article of scientific review as well as another of technical review on each of the number of the issue to be published on 2021. The rest will be published the following years.

#### **4.- BASES FOR THE COLLABORATION IN THE PROJECT**

There are two ways of collaboration in the project: as a punctual co-author and as an active co-author.

##### **4.1.- Punctual co-authors:**

##### **4.1.1.-Requirements for punctual co-authors.**

- Punctual co-author: must be a Plant Health specialist, Plant Production specialist, Plant Pathology researcher or professor or plant health technical responsible at a plant production centre.

The requirements to be accomplished by the punctual co-authors are the following:

1<sup>st</sup> .- Provide a minimum of 4 digital photographs about crop symptoms, of at least 1 crop abiotic disease of any country in the world.

2<sup>nd</sup> .- All of the provided photographs must have a minimum resolution of 300 ppp. They must not include any commercial name that shows the origin of the host.

3<sup>rd</sup> You must also specify the following information:

- Author of the photograph
- Cause of the abiotic disease
- Climatic-geographical area where the photographs were taken: specify the climatic-geographical area but not the country.

Example 1: For a photograph taken in Galicia (Northwest Spain) you must specify that it was taken in the Atlantic Europe.

Example 2: For a photograph taken in the Andine Argentina you should specify that it was taken in the Andine South America.

Example 3: For a photograph taken in India you must specify that it was taken in Southeast Asia.

4<sup>th</sup> Date of the photograph.

5<sup>th</sup> The photographs will be published on the LinkedIn website of the group International Plant Quarantine that will be created on January 2020.

The editorial board of the consultants Consultorías Noroeste S.C. reserves the right of exclusion of the photographs nor sufficiently informed. Either the inclusion or the exclusion of photographs will be specifically communicated to the author on the private LinkedIn website of the group.

#### **4.1.2.- Benefits of punctual co-authors**

1<sup>st</sup> .-Co-authority of all of the publications obtained from the data base, either scientific or technical: all of the publications will be signed up by the AGRONOMY & CLIMATE CHANGE GROUP and will include the lists of the members of the group.

2<sup>nd</sup> .-All of the digital publications obtained from the data base will be free for punctual co-authors: once published they will be sent to co-authors by email or we-transfer.

3<sup>rd</sup> .-Free access to the updated data base on any moment of the year.

4<sup>th</sup> .- A 30 % discount on any of the digital publications of the consultants CONSULTORÍAS NOROESTE S.C., either digital guides or articles and complete numbers of the issue Professional Plant Protection.

## **4.2.- Active co-authors:**

### **4.2.1.-Requirements for active co-authors.**

- Active co-author: must be a Plant Health specialist, Plant Production specialist, Plant Pathology researcher or professor or plant health technical responsible at a plant production centre.

The requirements to be accomplished by the punctual co-authors are the following:

1<sup>st</sup> .- Provide a minimum of 4 digital photographs about crop symptoms, of at least 30 crop abiotic diseases of any country in the world. You must provide a minimum of 120 digital photographs.

2<sup>nd</sup> .- All of the provided photographs must have a minimum resolution of 300 ppp. They must not include any commercial name that shows the origin of the host.

3<sup>rd</sup> You must also specify the following information:

- Author of the photograph
- Plant quarantine agent name: scientific name
- Climatic-geographical area where the photographs were taken: specify the climatic-geographical area but not the country.

4<sup>th</sup> Date of the photograph.

5<sup>th</sup> The photographs will be published on the LinkedIn website of the group International Plant Quarantine that will be created on January 2020.

The editorial board of the consultants Consultorías Noroeste S.C. reserves the right of exclusion of the photographs nor sufficiently informed. Either the inclusion or the exclusion of photographs will be specifically communicated to the author on the private LinkedIn website of the group.

### **4.2.2.- Benefits of active co-authors**

1<sup>st</sup> .-Co-authority of all of the publications obtained from the data base, either scientific or technical: all of the publications will be signed up by the AGRONOMY & CLIMATE CHANGE GROUP and will include the lists of the members of the group.

2<sup>nd</sup> .-All of the digital publications obtained from the data base will be free for active co-authors: once published they will be sent to co-authors by email or we-transfer.

3<sup>rd</sup> .-Free access to the updated data base on any moment of the year.

4<sup>th</sup> .- A 30 % discount on any of the digital publications of the consultants CONSULTORÍAS NOROESTE S.C., either digital guides or articles and complete numbers of the issue Professional Plant Protection.

5<sup>th</sup> A 100 euros bonus for the purchase of any of the digital publications of the consultants CONSULTORÍAS NOROESTE S.C., either digital guides or articles and complete numbers of the issue Professional Plant Protection. This bonus will not include the 30 % discount specified on the previous point.

## 5.- ACTIVITY PERIODS

This is a multiannual project that will be renewed for a maximum period of 4 years.:

<b>Activity</b>	<b>inicio</b>	<b>fin</b>
- Bases publication	20/12/2019	
- Photographs supply	1/1/2020	31/12/2020
- Data base design and publications	1/3/2020	31/12/2020 *
* The data base will be updated and published every month, publishing the new versions the last week of each month.		
- Publications	1/1/2021	31/12/2021
Estimated Publication dates		
- Digital visual guides		
- Spanish version	1/9/2021	
- English version	1/10/2021	
- Professional Plant Protection nº 10 **	31/6/2021	
- Professional Plant Protection nº 11 **	31/12/2021	
** Each of the specified issue numbers will include a minimum of one scientific review as well as another technical review about crop abiotic diseases worldwide.		
- Selling period of the publications: from the following dates		
- Digital visual guides		
- Spanish version	2/9/2021	
- English version	2/10/2021	
- Professional Plant Protection nº 10	1/7/2021	
- Professional Plant Protection nº 11	1/1/2022	

## **5.- COPYRIGHT, EDIÇÃO, LAYOUT AND DESIGN**

### **5.1.- Copyright**

The copyright of the digital visual guides, obtained on the project, will have the following property:

- Consultorías Noroeste S.C.
- AGRONOMY & CLIMATE CHANGE GROUP.

The copyright of the publications included on the issue Professional Plant protection, will have the following property:

- Of the texts: Consultorías Noroeste S.C.
- Of the photographs: AGRONOMY & CLIMATE CHANGE GROUP.

### **5.2.- Edition**

The edition and correction of the digital visual guides as well as of the articles included on the issue Professional Plant Protection will be carried out by the following staff:

- D. Antonio Rivera Martínez – Scientific and technical editor of Professional Plant Protection.
- Dr. José Luis Andrés Ares – Director and scientific and technical editor of Professional Plant Protection.

### **5.3.- Layout and design**

The layout and design of all of the publications obtained from the present project will be carried out by the graphical edition and layout team of Consultorías Noroeste S.C.

## **6.-SELLING AND DISTRIBUTION:**

The selling and distribution of all of the publications will be carried out by Consultorías Noroeste S.C.



## **7.- LANGUAGES**

The photographs can be submitted in Spanish or English language. The data base will be carried out only in English language. The digital visual guides will be carried one in English and the other one in Spanish language. The scientific reviews will be carried out in English language and the technical reviews in Spanish language.

## **8.- APPLICATIONS**

On January 2020 J.L. Andrés Ares will create a new LinkedIn group named AGRONOMY & CLIMATE CHANGE GROUP, with private access only for members of the group. Co-authors must request entry to the group AGRONOMY & CLIMATE CHANGE, making a request to J.L. Andrés Ares on the LINKEDIN website, once included on the group they should publish the photographs on the group LinkedIn website which will have private access only for members of the group (only for co-authors as well as for members of the editorial board). On the group website we will also publish the access link for the access to the updated plant quarantine data base, free for the members of the group.

Consultorías Noroeste S.C. will publish 208 photographs of 52 crop abiotic diseases from a specific part of the world, to be published one per week, on the group – AGRONOMY & CLIMATE CHANGE GROUP - website. Certain of such photographs will also be published free on the free LinkedIn website of the group Professional Plant Protection.

The Editorial Board

The director - Dr. J.L. Andrés Ares