



19th - 23rd April

INTENSIVE COURSE

INTRODUCTION TO THE MONITORING OF ALGAL BLOOMS WITH REMOTE SENSING

Irene Laiz - University of Cadiz



Theory lessons (6h)

Harmful Algal Blooms (HABs)
Optical Oceanography
Ocean colour Remote Sensing
Remote sensing techniques



Computer workshops (9h)

Introduction to Bilko
Study of an algal bloom event
Analysis of chlorophyll remote sensing images



Questionnaires

Questionnaires to evaluate the results obtained. ECTS

You can apply now!

Be part of this innovative learning experience, an intensive course shared with students from 6 universities

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VIRTUAL

INTENSIVE COURSE

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PROGRAMME

THEORY LESSON 1 (ONLINE-ASYNCHRONOUS): 19/04/21

- INTRODUCTION TO HARMFUL ALGAL BLOOMS (HABS)
- MECHANISMS RESPONSIBLE FOR HABS
- CLIMATE CHANGE AND HABS

THEORY LESSON 2 (ONLINE-ASYNCHRONOUS): 20/04/21

- OPTICAL OCEANOGRAPHY
- CLASSIFICATION SCHEMES OF WATER TYPES
- INTRODUCTION TO OCEAN COLOUR REMOTE SENSING
- DATA PROCESSING LEVELS
- OCEAN COLOUR SENSORS
- REMOTE SENSING TECHNIQUES FOR MONITORING HABS

QUESTIONNAIRE 1 (ONLINE): 20/04/21

- QUESTIONNAIRE TO EVALUATE THE THEORY KNOWLEDGE ACQUIRED.

COMPUTER WORKSHOP 1 (ONLINE-ASYNCHRONOUS): 21/04/21

- INTRODUCTION TO BILKO TO ANALYSE OCEAN COLOUR REMOTE SENSING IMAGES (A SELF-EXPLANATORY GUIDE WILL BE PROVIDED)

QUESTIONNAIRE 2 (ONLINE): 21/04/21

- QUESTIONNAIRE TO EVALUATE THE TECHNICAL SKILLS ACQUIRED WITH BILKO.

COMPUTER WORKSHOP 2 (ONLINE-ASYNCHRONOUS): 22/04/21

- ANALYSIS OF OCEAN COLOUR REMOTE SENSING IMAGES USING BILKO TO STUDY AN ALGAL BLOOM EVENT OFF THE COAST OF NAMIBIA (A SELF-EXPLANATORY GUIDE WILL BE PROVIDED)

QUESTIONNAIRE 3 (ONLINE): 22/04/21

- QUESTIONNAIRE TO EVALUATE THE RESULTS OBTAINED WITH BILKO AND THEIR INTERPRETATION WITHIN THE CONTEXT OF THE THEORY KNOWLEDGE ACQUIRED.

COMPUTER WORKSHOP 3 (ONLINE-ASYNCHRONOUS): 23/04/21

- ANALYSIS OF CHLOROPHYLL REMOTE SENSING IMAGES WITH BILKO USING ALGORITHMS FOR DIFFERENT WATER TYPES (A SELF-EXPLANATORY GUIDE WILL BE PROVIDED).

QUESTIONNAIRE 3 (ONLINE): 23/04/21

- QUESTIONNAIRE TO EVALUATE THE RESULTS OBTAINED WITH BILKO AND THEIR INTERPRETATION WITHIN THE CONTEXT OF THE THEORY KNOWLEDGE ACQUIRED.