Istituto Zooprofilattico Sperimentale delle Venezie

Epidemiology and GIS in the Management of Marine Aquatic Animal Diseases

17-21 June 2019

Istituto Zooprofilattico Sperimentale delle Venezie

Legnaro, Padua - Italy

OIE Collaborating Centre for Epidemiology, Training and Control of Emerging Avian Diseases

OIE Reference Laboratory for Viral Encephalopathy and Retinopathy

OIE Collaborating Centre for Epidemiology and Risk Assessment of Aquatic Animal Diseases

Programme Aims

The overall aim of the course is to provide basic knowledge on GIS. In particular, the course learning outcomes are the following:

- The participant will demonstrate proficiency in the use of geospatial software, including capture, editing and management of spatial data.
- The participant will demonstrate proficiency in map creation and design, including thematic map display and cartographic design for decision support systems.
- The participant will be able to run geoprocessing tools and develop exploratory spatial data analysis in the context of the epidemiology in marine aquatic animal diseases.
- The participant will receive basic knowledge on epidemiology applied to marine fish farms.

Programme

The course is focused on three topics:

Topic 1. We will provide an overview of epidemiology applied to marine aquaculture. In particular, data collection and interpretation as well as use of obtained results will be described. The use of GIS and its application in the marine aquaculture sector will be explored, and the various technologies used to integrate spatial aspects in disease management activities will be presented.

Topic 2. We will provide practical examples on the fundamentals of GIS and how to build digital maps using the QGIS open source software, which allows free unlimited use for private or commercial applications. We will include GIS operation and cartography composition through a series of lectures and computer-based exercises.

Topic 3. The basic techniques and processes to perform exploratory spatial analyses and GIS applications in marine aquaculture sector will be presented and discussed. Moreover, some use cases and practical applications will be presented.

For further details see: http://gis.izsvenezie.it/gis-courses/

Information

Language: The training course will be in English.

Duration: The course will last five (5) days.

Hardware: A computer room with 15 places will be available for the course participants. In case a trainee prefers to use his/her own laptop, he/she shall have to install the latest QGIS version from the internet before the start of the course (please refer to the scientific secretariat for information about the QGIS version to install).

Software: The QGIS software will be used for GIS demonstrations and practical work.

Number of participants: To have effective communication and training, the maximum number of participants will be 15.

Price

The training course is free. Participants have to pay for their travel and subsistence costs. Class materials will be provided.

Lecturers

Anna Toffan: OIE Reference Laboratory for Viral Encephalopathy and Retinopathy (VER), IZSVe (Italy).

Paola Bonato, Manuela Dalla Pozza, Nicola Ferrè, Grazia Manca, Stefano Marangon, Matteo Mazzucato: OIE Collaborating Centre for Epidemiology, Training and Control of Emerging Avian Diseases - Epidemiology Surveillance Department – IZSVe (Italy).

Edgar Brun / Saraya Tavornpanich: OIE Collaborating Centre for Epidemiology and Risk Assessment of Aquatic Animal Diseases – Norwegian Veterinary Institute (Norway).

Giuseppe Arcangeli, Amedeo Manfrin: Aquatic Animal Health and Seafood Safety Unit - National Reference Centre for Fish, Mollusc and Crustacean Diseases - IZSVe (Italy).

Roberto Pastres: University of Venice (Italy).

Scientific Secretariat

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http://gis.izsvenezie.it/gis-courses/course.php?courseid=4&mvid=21&lan=EN