

Subject: In situ training in Podgorica, Radovici, Tivat and Lastva Grbaljska

Place: Podgorica, Montenegro

Date: 3rd to 9th August, 2015

Procurement plan: Training, line 5

In situ training in South Montenegro, is intended for the employee of Centro Agricoltura Ambiente from Bologna, Italy: Romeo Bellini as a part of WP2c.

Continuation of trainings from first research year - This activity is planned to support collaborative research on surveillance of MV/MBD and non-chemical control measures in Montenegro. Apart from direct involvement in research activities (WP1a and WP1e), international partners will provide specific practical training to MCM - implementation of mosquito surveillance, also providing *in situ* field training.

STUDY FOR THE RISK ASSESSMENT OF CHIKUNGUNYA AND DENGUE OUTBREAK IN MONTENEGRO-2015

OBJECTIVES

- To evaluate the *Ae. albopictus* population density in 3 urban areas of MNE during the seasonal peak period (August);
- To calculate the level of correlation between ovitrap data and human landing collection data in MNE;
- To estimate the risk of outbreak in case of introduction of Chikungunya and Dengue viruses throughout viremic travelers;
- To compare the observed level of correlations between ovitrap data and human landing collection data observed in MNE and in Northern Italy;
- To compare the risk of Chikungunya and Dengue viruses outbreak estimated in MNE and in Northern Italy.

PROTOCOL

- 3 urban localities of different dimensions have been chosen following the ovitrap data collected in 2012-13 (Radovici, Lastva Grbaljska and Tivat);

- in each locality the urban area under study has been defined and number of ovitraps fixed as follow:

- Radovici: 20 ha – 10 ovitraps; Lastva Grbaljska: 30 ha – 12 ovitraps; Tivat South: 70 ha – 15 ovitraps.

- ovitraps will be positioned in vegetated shaded sites and left working for 9 days;
- first positioning of ovitraps will be 6th-9th July and the periodic inspections will be 16th July, 25th July, 3rd August, 12th August, 21th August, 30th August;

- in the period 4th-11th August *albopictus* females will be collected in the 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time (indicatively 5-7PM) by 4-6 persons. Each person will conduct 4 sessions during the indicated two

hours period, by moving in different vegetated sites (obtaining 16-24 HLC data). Collected females will be released back to the field immediately after the 15 min session;

- Collected data will be processed to see the *Ae. albopictus* population density in the 3 urban areas of MNE during the seasonal peak period; the level of correlation between the ovitrap data and the HLC data; the risk of outbreak in case of introduction of Chikungunya and Dengue viruses throughout viremic travelers; the level of correlations between MNE and Northern Italy data.



Lastva Grbaljska - 30.21 ha



Radovici - 20.73 ha



Tivat - 73.57 ha