

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

Day 1, Monday, 3rd of August - departure from Bologna to Podgorica and Tivat, Radovici
Inspection of positioned ovitraps.

Day 2, Tuesday, 4th of August

morning activities Meeting with Dusan Petric and Igor Pajovic,

afternoon activities *Ae. albopictus* females collecting in 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time. 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

Day 3, Wednesday, 5th of August

morning activities Determination and assortment of collected material (other mosquitoes than *Ae. albopicta*),

afternoon activities *Ae. albopictus* females collecting in 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time. 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

Day 4, Thursday, 6th of August

morning activities Determination and assortment of collected material (other mosquitoes than *Ae. albopicta*),

afternoon activities *Ae. albopictus* females collecting in 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time. 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

Day 5, Friday, 7th of August

morning activities Determination and assortment of collected material (other mosquitoes than *Ae. albopicta*),

afternoon activities *Ae. albopictus* females collecting in 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time. 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

Day 6, Saturday, 8th of August

morning activities Determination and assortment of collected material (other mosquitoes than *Ae. albopicta*),

afternoon activities *Ae. albopictus* females collecting in 3 urban areas, by manual aspirators (Human Landing Collection sessions of 15 min) during the peak activity time. 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

Day 7, Sunday, 9th of August

Transferring project management experience to staff of BTF, exchange ideas with BTF and FoA scientists, discussion on the training course, question time.