

# Bogota schedule

## 1<sup>st</sup> day – **Installation of ISOLA and first MT calculation**

Installation of the code in participants computers. Installation of two example event data (Costa Rica 2012 (Mw7.6) and Corinth Gulf (Mw~4).

### *Coffee Break*

(without using the code)

Terminology of MT inversion in ISOLA (moment tensor, Green functions, elementary seismograms, correlation, variance reduction, grid search, least squares). Paper of Krizova et al, 2013. Examples SRL paper, source station distribution, space time correlation plot, correlation vs depth, waveforms at optimum position, best.ps, mtsol.txt.

### *Lunch break*

(using the code)

Calculation of MT for Corinth Gulf event (Pole zeroes, SAC files, Event info, Station selection, Data preparation, Crustal model, Source preparation, Inversion, Green, Results).

## 2<sup>nd</sup> day – **Uncertainty of MT**

(without using the code)

SNR, FMVAR, STVAR, Jackknifing (ISOLA SRL 2013), Uncertainty estimation (Zahradnik and Custodio Appendix).

### *Coffee break*

(using the code)

Start processing of Corinth Gulf event. Participants follow lecturer's instructions using their laptops. Go through all steps (data preparation, inversion, results)

### *Lunch break*

Start processing events brought by participants, under supervision.

### 3rd day - **From point source to finite source**

(without using the code)

Horizontal grid search, long period centroid, examples of Leonidio and Van, hcplot for Van, design of finite fault model.

Coffee break

(using the code)

Processing of Costa Rica event. Participants follow lecturer's instructions using their laptops. Go through all steps (data preparation, inversion, results)

Lunch break

Processing events brought by participants, under supervision.

### 4th day - **Multiple point source inversion**

(without using the code)

Example Van event, Time – space plots, Time function for 2 fixed points (Appendix of Van paper)

Coffee Break

(using the code)

Processing of Costa Rica event. Participants follow lecturer's instructions using their laptops. Go through all steps (data preparation, inversion, results)

Lunch break

Processing events brought by participants, under supervision.

### 5th day

Discuss on results obtained by participants.