



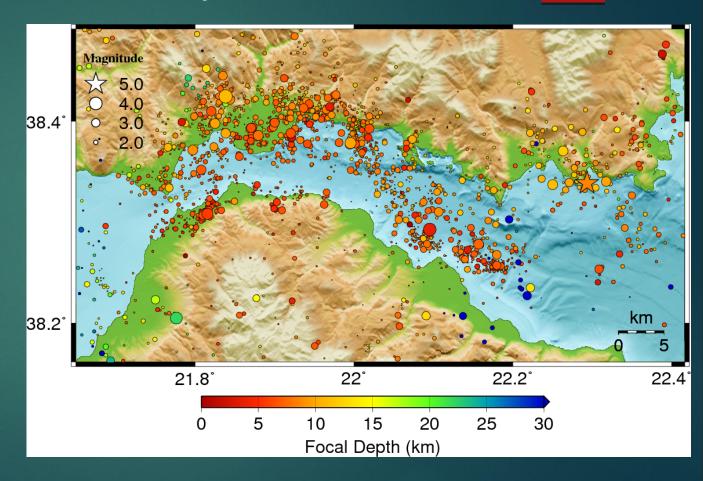
National & Kapodestrian University of Athens

Setting a COST proposal for NFOs & CRL

NFO meeting @ Postojna November 2019

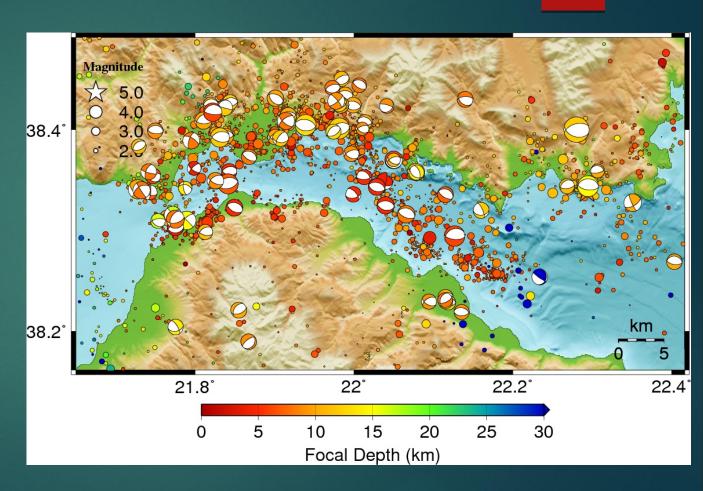
The CRL NFO - Seismicity

- Events for the period January2018 April 2019
- Manual locations obtained in daily basis.
- ► The largest event is he M=5.2 Itea earthquake that occurred on 30 March 2019.



The CRL NFO - Focal Mechanisms

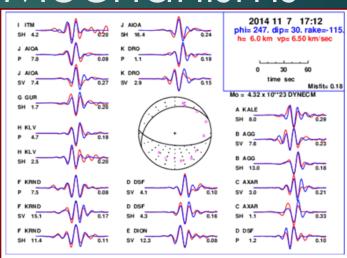
- Focal mechanisms for events for the period January 1995– April 2019
- ► Fault plane solutions have been determined for more than 70 events with Mw≥3.5 in the CRL region
- The vast majority reveals normal faulting

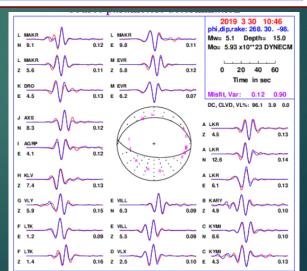


The CRL NFO – Focal Mechanisms

Aigio (2014) - M=5.0

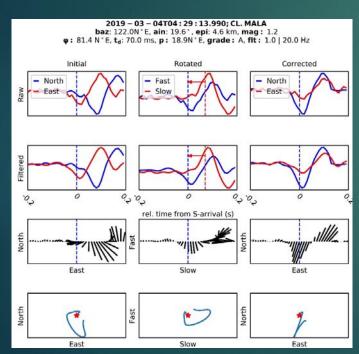
Itea (2019) - M = 5.2



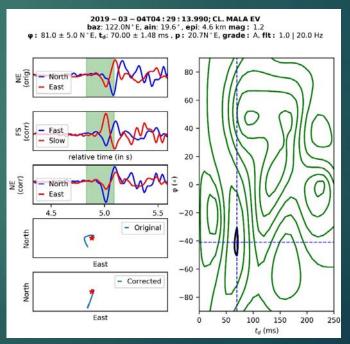


CRL NFO – Seismic Anisotropy

The Pytheas Software is an open-source algorithm, freely available at Github. Pytheas was inspired by the analysis of the CRL NFO data. It offers a complete solution that integrates manual and (partially or fully) automatic methods for shear-wave splitting analysis. Pytheas offers the implementation of the following methods: (a) Visual inspection of polarigrams and hodograms (manual), (b) Rotation-Correlation (semi-automatic), (c) Eigenvalue (semi-automatic) and (d) Minimum Energy (semi-automatic). Moreover, it automates the last three operations by using Cluster Analysis. Pytheas (Version 0.1.0, April 2019) can be accessed through its dedicated repository in GitHub (https://www.github.com/ispingos/pytheas-splitting)



Summary plot of the analysis with the Manual (MAN) method



Summary plot of the analysis with the Eigenvalue (EV) method