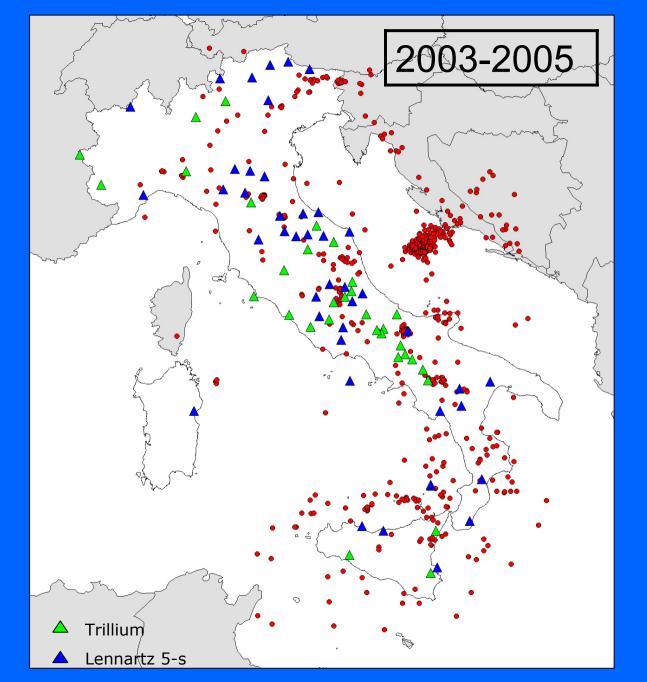
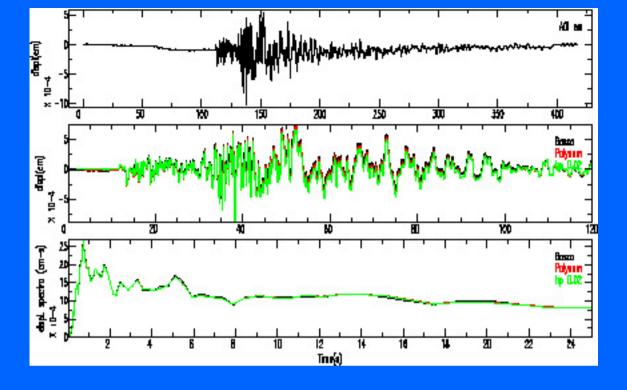
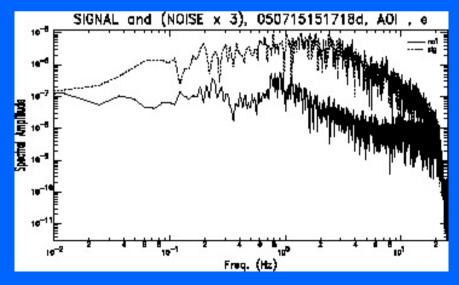
Task 4a Work in progress at UR2 (INGV-RM1)

- Selection of events (M> 3.5)
- Check on the integration procedures for both accelerometric and velocimetric recordings
- Definition of a quality criterion for the computed displacement waveforms

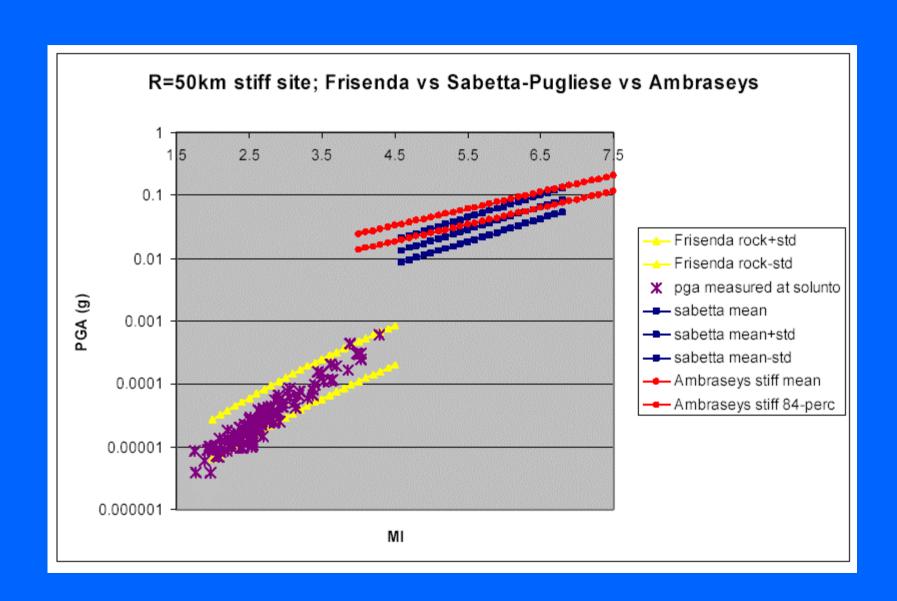




August 22, 2005 ML 4.5 R 140 km



Why so weak motions?



Task 4b Work in progress at UR1 (INGV-CT) and UR2 (INGV-RM1)

- Selection of earthquakes in the Mt. Etna area
- Check on the integration procedures for both accelerometric and velocimetric recordings
- Definition of a quality criterion for the computed displacement waveforms
- Separation of VT-A from VT-B and hybrid (LP) events

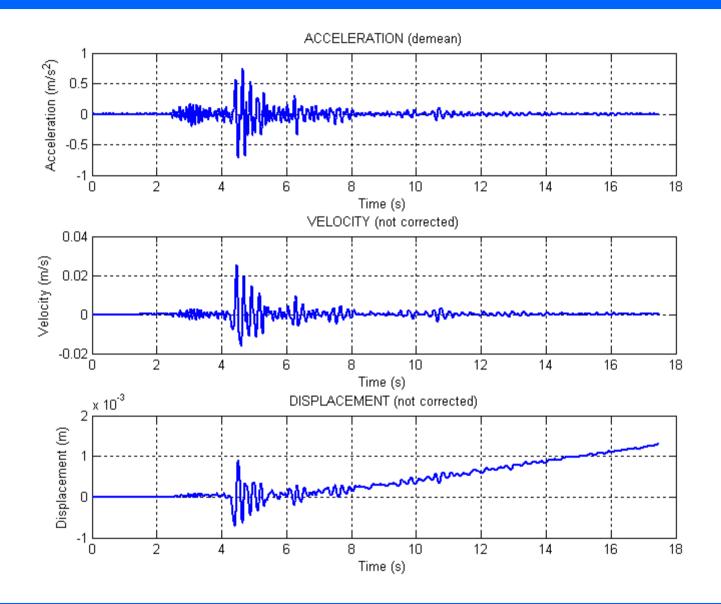
BASCO (courtesy by POLI-MI)

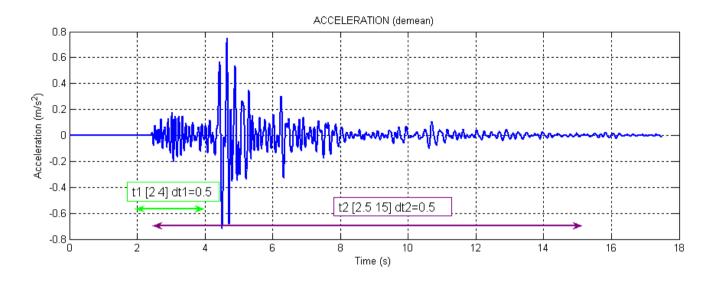
Implementation with

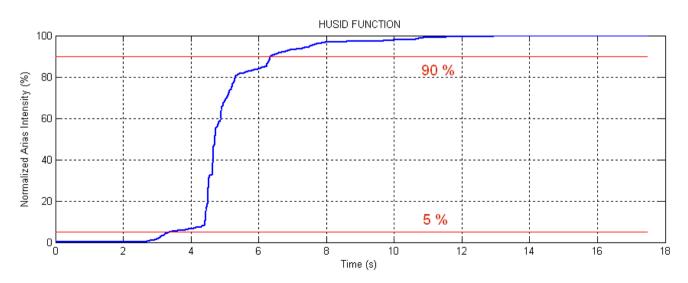
Step 1 – Visualization of the Husid function and choice of the variability range of the code parameters as a function of 5% and 95% of the Arias intensity.

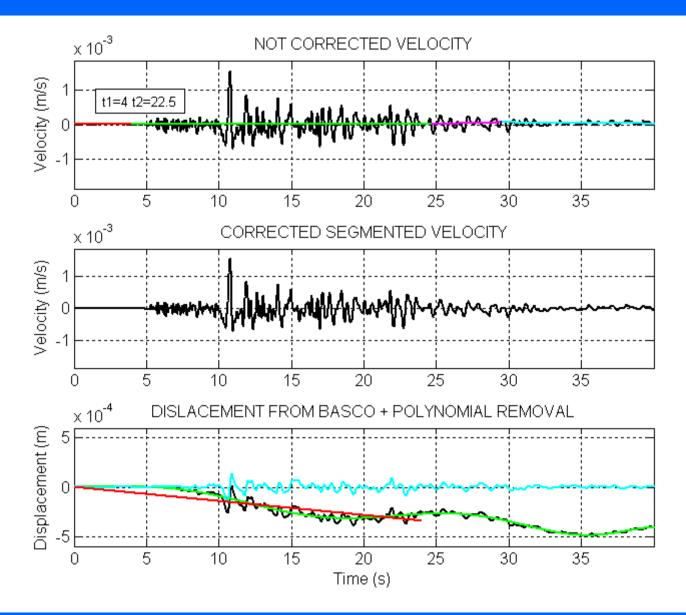
Step 2 – Automatic grid search varying t₁ and t₂.

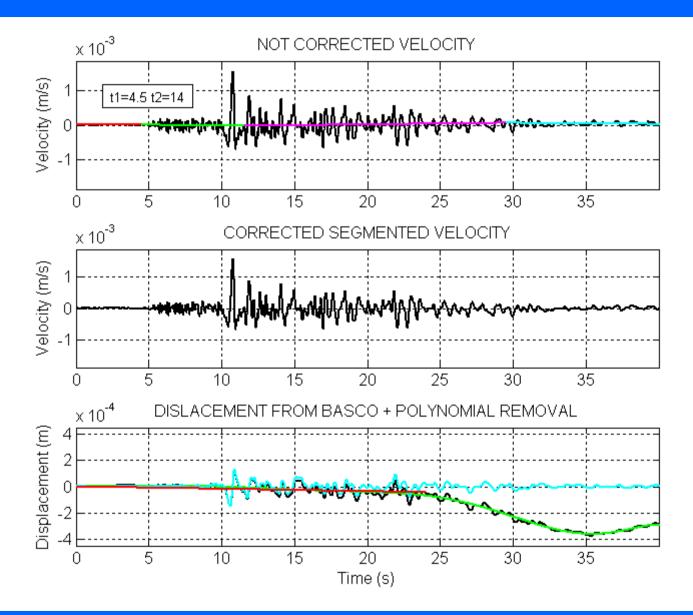
Step 3 – Visualization of the optimal (objective) solutions and choice of the best (expert criterion) displacement time history to be stored as the result of the integration process.

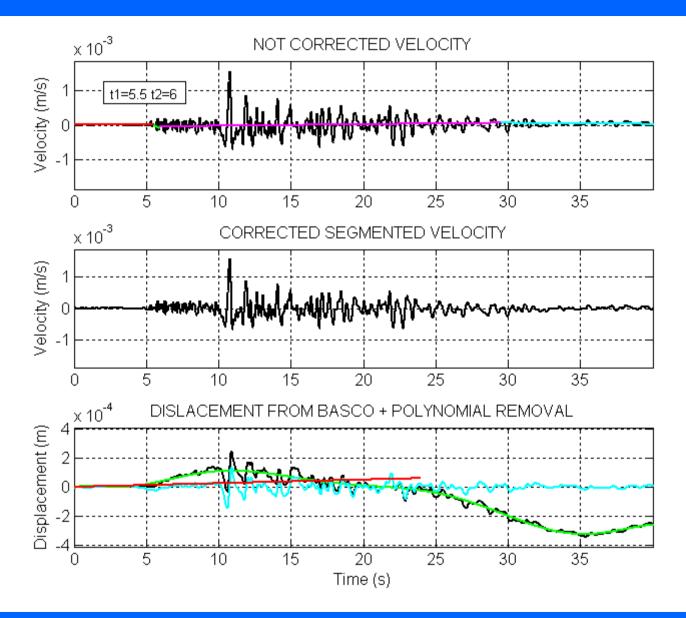


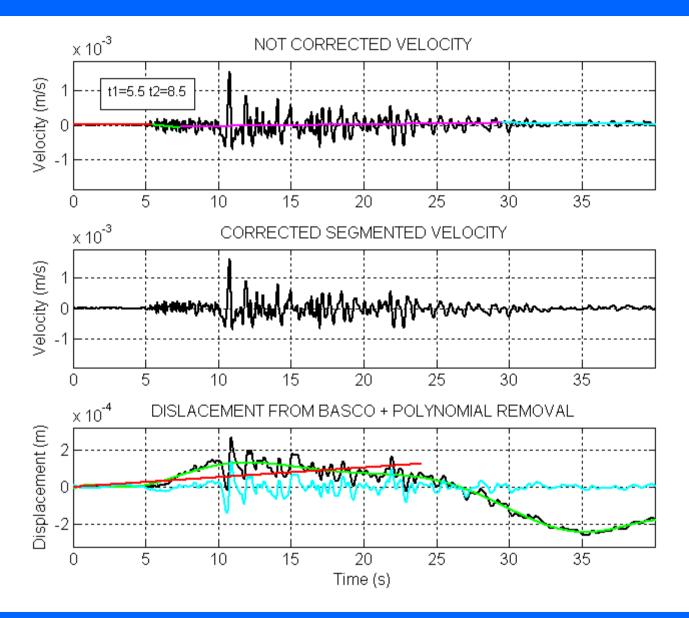


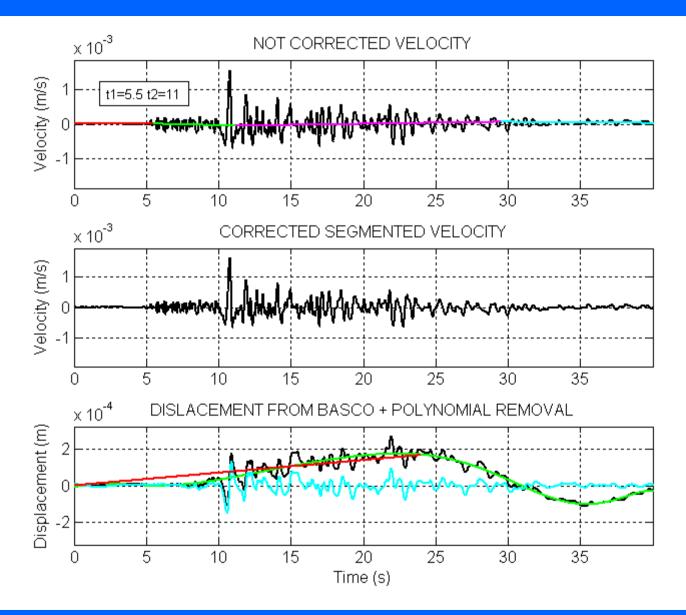


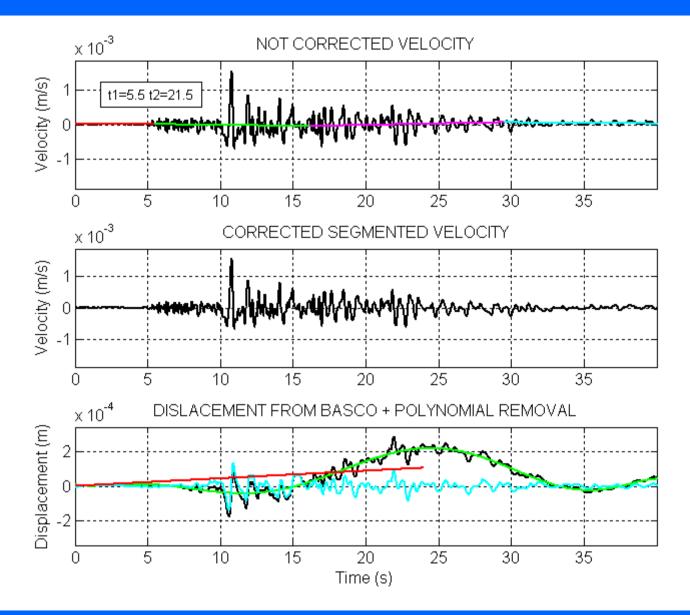


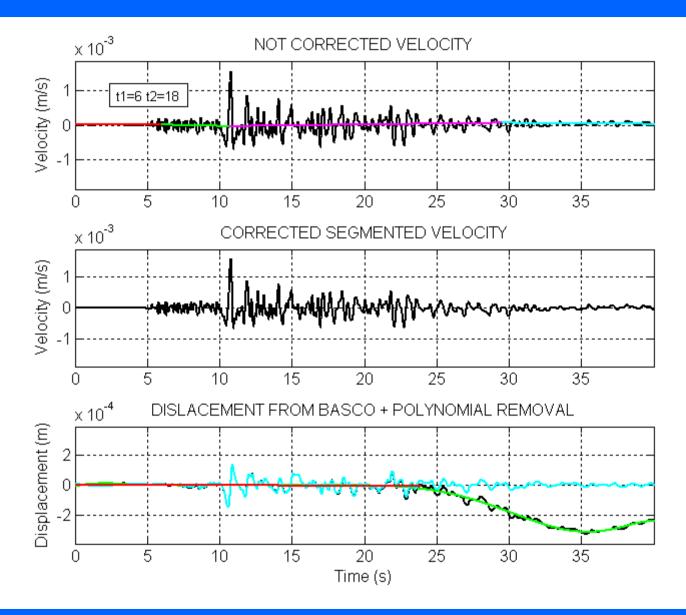


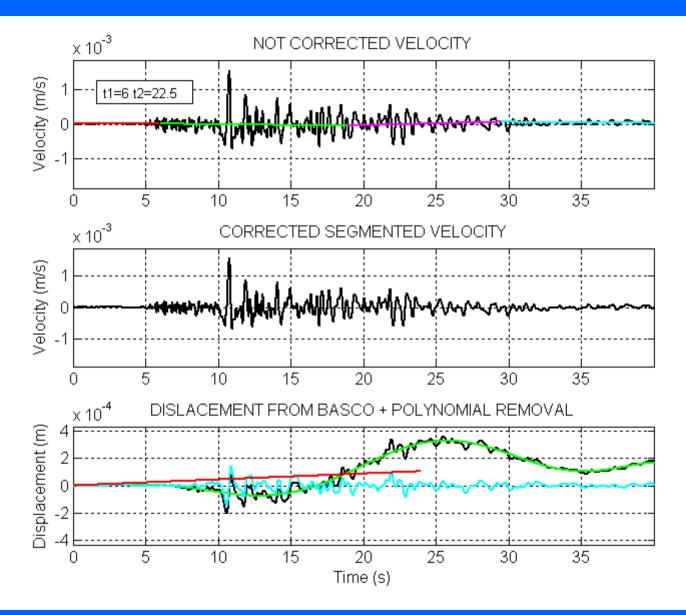


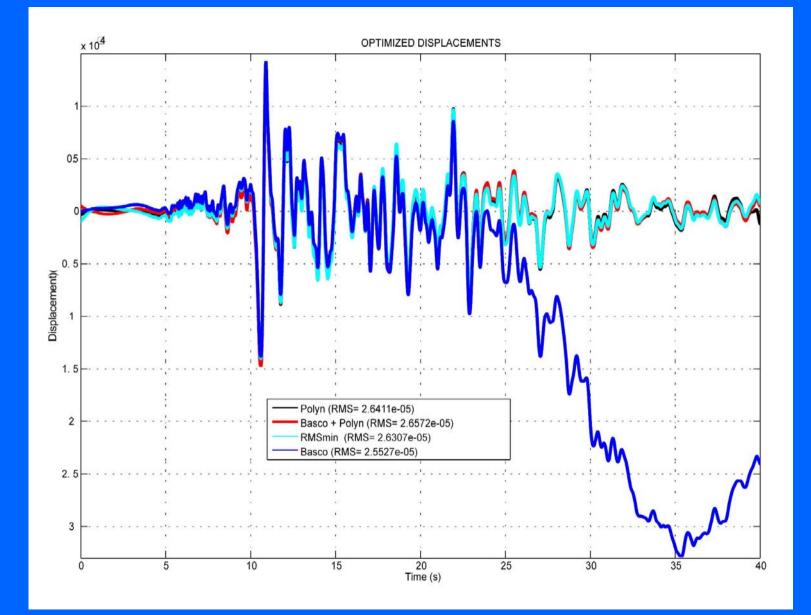


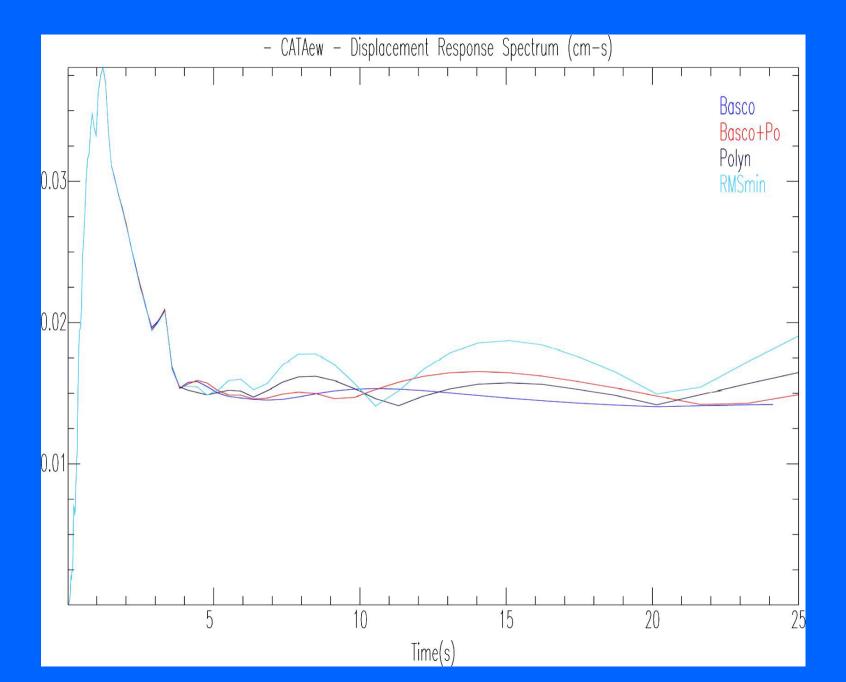


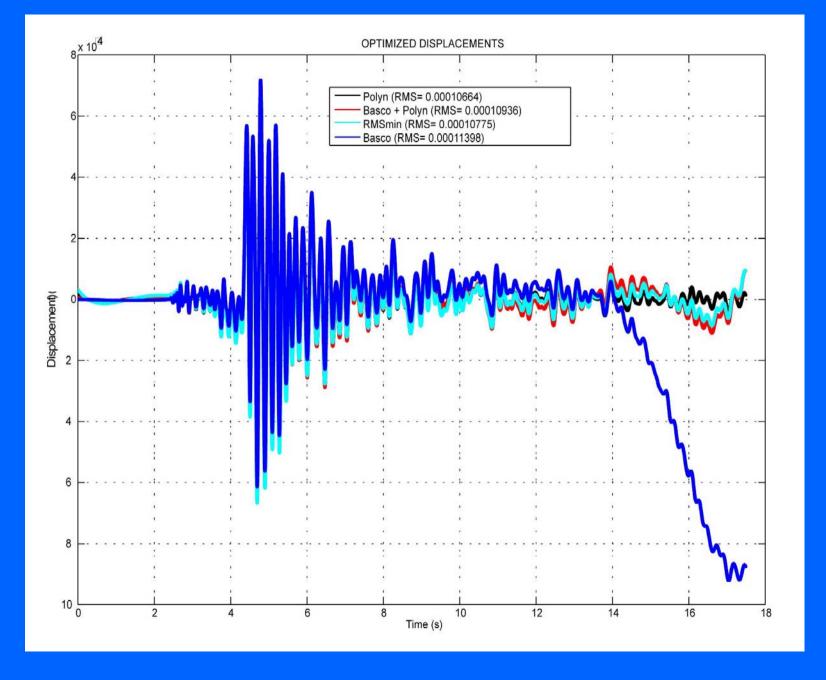


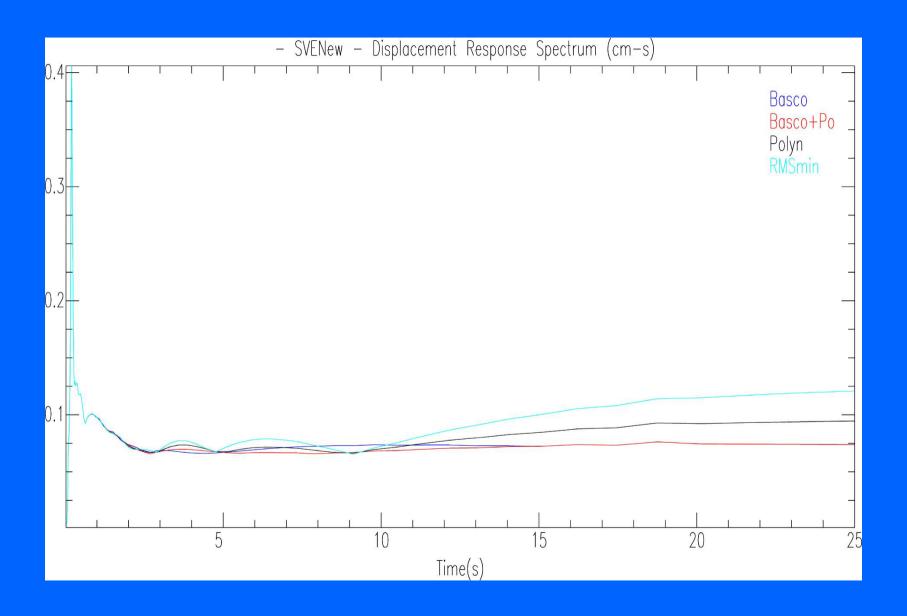


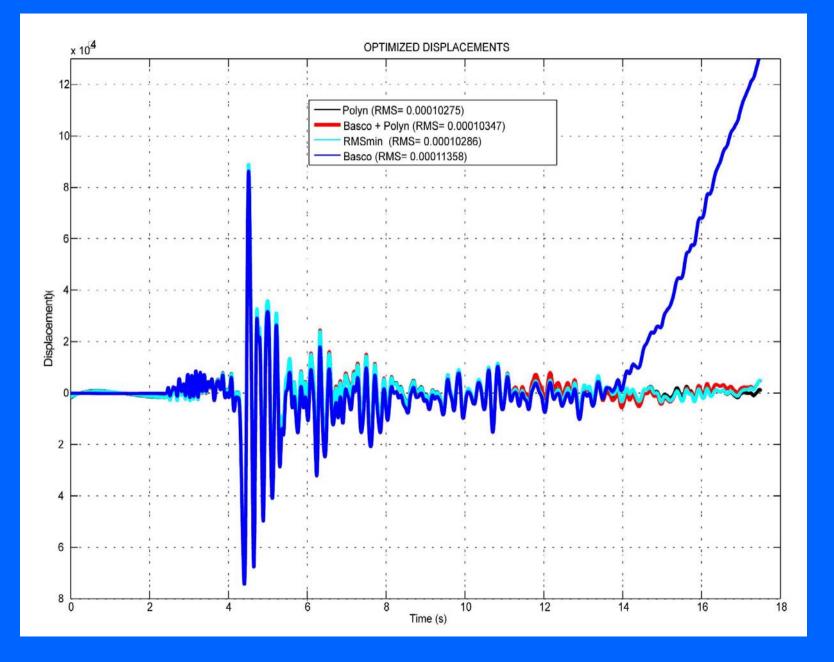


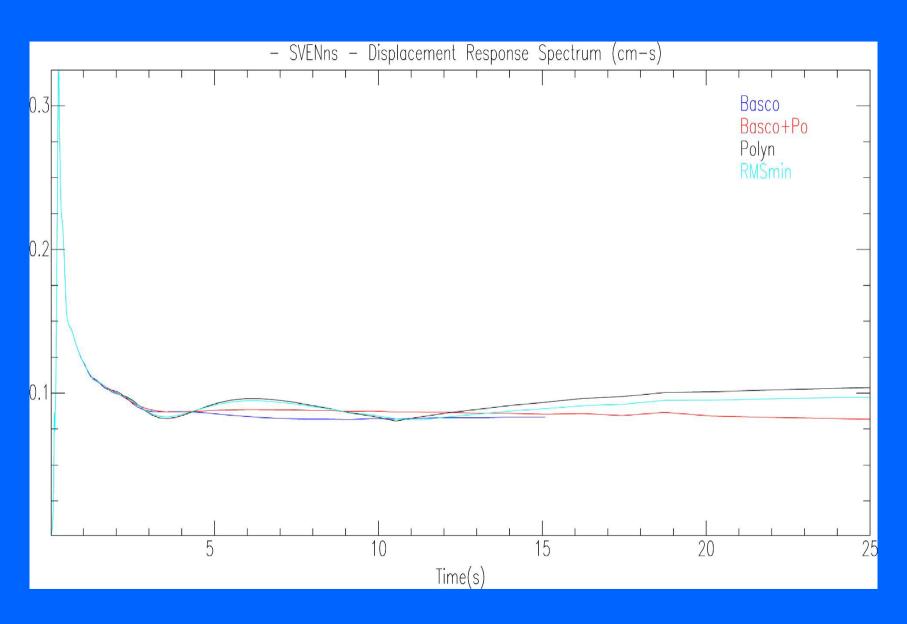






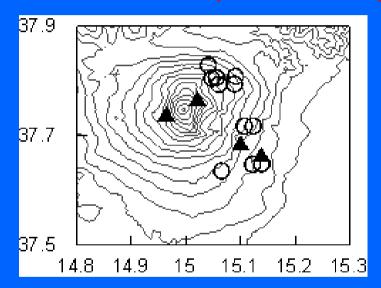




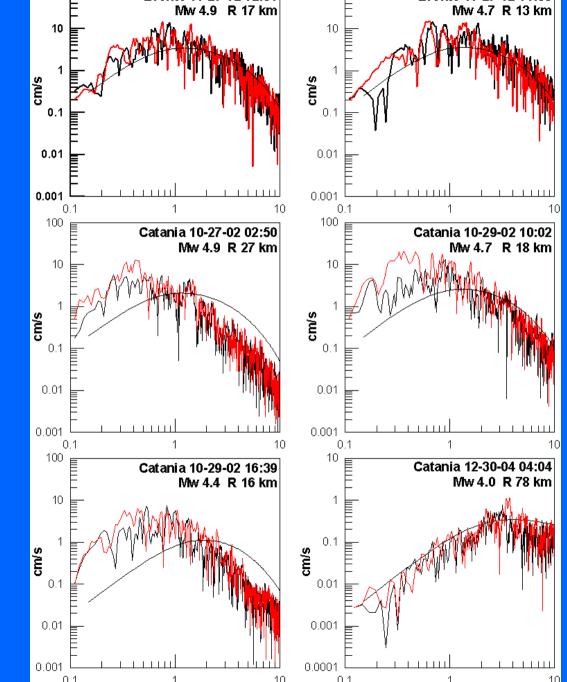




▲ October 2002 (largest shocks) O December 2002 (minor shocks)



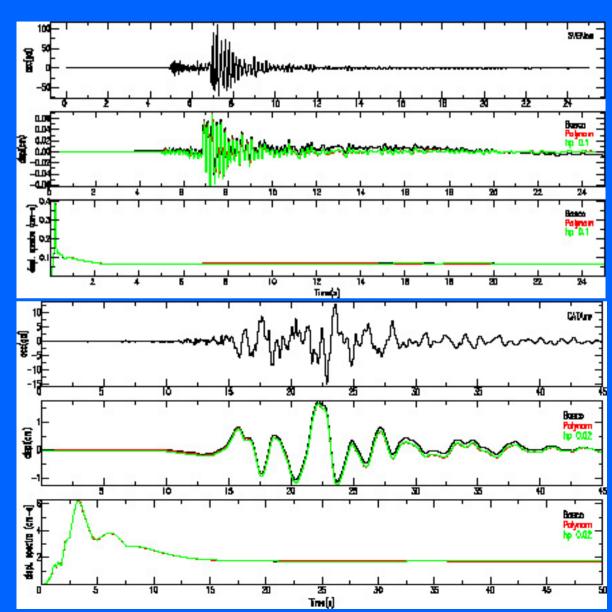
October 2002 Strongest motions



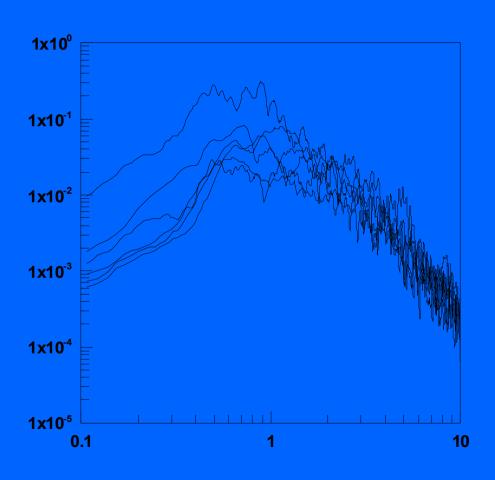
PGA and PGD of VT-A and VT-B events

October 31, 2005 ML 3.8 VT-A event

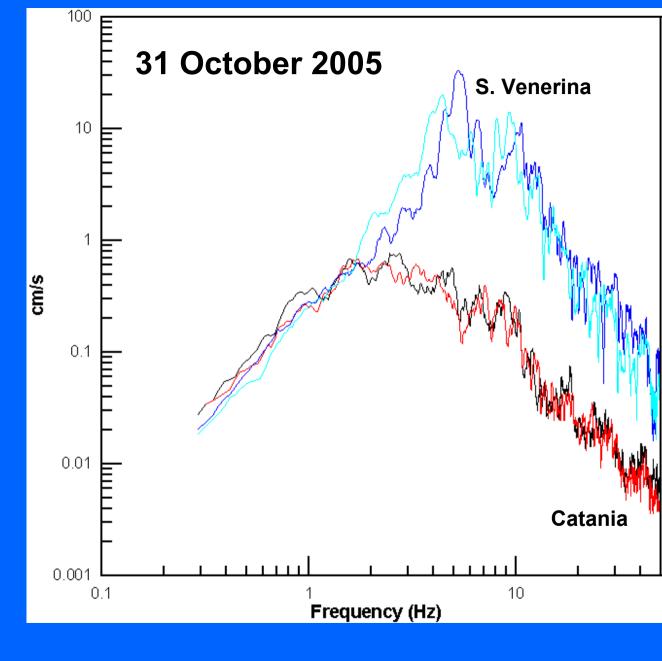
October 29, 2002 ML 4.4 VT-B event



December 2002 aftershocks



Le sorprese continuano...



Task 4, a and b - Deliverables

 D14, a (Italy) and b (Etna) (definition of operative details, 6 months)

 D15, a (Italy) and b (Etna) (preliminary attenuation relationships, 12 months)

 D16, a (Italy) and b (Etna) (final attenuation relationships, 18 months)