

## APPENDIX B. GPS DATA

Table B1. Coseismic displacements used in this study for the 11 cGPS stations in the deformation region. Sites positions are in decimal degrees. Displacements (in cm) are computed in the ITRF05 reference frame (see section 3.2 for details). Associated uncertainties (in cm) are also indicated.

Table B2. Displacements for the Mw 6.8 and Mw 6.1 aftershocks (15th November 2007) used in this study for 10 cGPS stations in the deformation region (data for the QUIL cGPS station were not available for this period). Conventions are the same as in Table B1. The errors on the coseismic offsets are larger for the main event than the aftershocks due to the duration of the sessions used for the data processing: two sessions of 14 and 9 hours in the case of the main shock and two sessions of 14 and 24 hours in the case of the aftershocks.

Table B3. Velocity vectors for the first postseismic period (from 16<sup>th</sup> to November 24<sup>th</sup>, 2007) computed in a local reference frame (see section 3.2 for details). Velocities are in millimeters/years.

Table B4. Velocity vectors for the second postseismic period (from November 25<sup>th</sup> to December 10<sup>th</sup>, 2007).

Figure B1. Position time series for the 11 cGPS stations in the deformation region. North, East and Up components are shown for each station. Time is in GPS days and displacements are in meters. Error bars depict 2- $\sigma$  error.