Some -very- incomplete bibliography about GPS and deformation

Workshop on megathrusts and tsunamis, ICTP, october 2014. marianne.metois@ingv.it

1 Deformation

- Reid (1910)
- Landers strike slip motion seen by GPS Wald and Heaton (1994)
- Dislocation formalism Okada (1985)
- Backslip hypothesis Savage (1983)
- Sagaing strike slip fault Vigny et al. (2003)
- Postseismic rebound Trubienko et al. (2014)
- Visco-elastic interseismic deformation Trubienko et al. (2013)
- Defnode/Tdefnode code McCaffrey (2002) and http://web.pdx.edu/ mccaf/www/defnode/

2 GPS

- GPS details Hofmann-Wellenhof et al. (1993)
- PPP technique Zumberge et al. (1997)
- Ambiguity resolution methods Bertiger et al. (2010)
- orbits IGS Beutler et al. (1999)
- mathematical theory King et al. (1985)
- international terrestrial reference frame Altamimi et al. (2011)

2.1 Processing


2.2 Freely available time-series

- Nevada University http://geodesy.unr.edu/billhammond/gpsnetmap/GPSNetMap.html
3 About GPS in Chile

- International Lab "Montessus de Ballore" https://www.lia-mb.net/index.php/fr/Racine/About-Us/lia-montessus-de-balle
- Centro Sismologico Nacional http://www.sismologia.cl/
- Integrated Plate Boundary Observatory Chile http://www.ipoc-network.org/

3.1 Interseismic deformation

- South-Central Chile Bevis et al. (2001); Klotz et al. (2001); Khazaradze (2003); Ruegg et al. (2009); Vigny et al. (2009); Métois et al. (2012); Métois et al. (2014)
- North Chile Kendrick et al. (2001); Chlieh et al. (2004); Béjar-Pizarro et al. (2010); Métois et al. (2013)
- about sliver motion and paleomagnetic rotation Brooks (2003); Brooks et al. (2011); Arriagada et al. (2008)
- about mechanical interpretation of coupling Kaneko et al. (2010); Hetland and Simons (2010)

3.2 Megathrust earthquakes

- Darwin quake Fitzroy et al. (1966), Darwin (1851), Campos et al. (2002)
- the 1877 quake Kausel (1986); Kausel and Campos (1992)
- Arequipa 2001 quake Ruegg and Olcay (2001); Perfettini (2005)
- Tocopilla 2005 quake (see also lab session) Béjar-Pizarro et al. (2010); Peyrat et al. (2010) - Maule quake Madariaga et al. (2010); Lorito et al. (2011); Moreno et al. (2010); Vigny et al. (2011); Ryder et al. (2012); Lin et al. (2013b); Yue et al. (2014) ...
- Iquique quake Ruiz et al. (2014); Bürghmann (2014); Schurr et al. (2014); Hayes et al. (2014)

4 About GPS elsewhere

- Ocean Bottom Geodesy in Peru Gagnon et al. (2005), Japan Sato et al. (2011), Geomar array in Chile Kopp et al. (2014)
- Sumatra quake Vigny et al. (2005)
- Japanese coupling Loveless and Meade (2011); Hashimoto et al. (2009, 2012)
- New-Zealand coupling Wallace et al. (2004, 2014)
- SSE Dragert et al. (2004); Vergnolle et al. (2010); Radigu et al. (2011); Vallée et al. (2013)

5 About Insar

- Principles by ESA Ferretti et al. (2007)
- Landers quake Massonnet et al. (1993)
References


Fitzroy, R., P. P. King, and C. Darwin (1966), *Narrative of the surveying voyages of His Majesty’s ships Adventure and Beagle, between the years 1826 and 1836, describing their examination of the southern shores of South America, and the Beagle’s circumnavigation of the globe*, vol. 3, H. Colburn.


King, R. W., E. Masters, C. Rizos, A. Stolz, and J. Collins (1985), *Surveying with GPS*, School of Surveying, the University of New South Wales.


Okada, Y. (1985), Surface deformation due to shear and tensile faults in a half-space, Bulletin of the Seismological Society of America.


