

Selected InSAR bibliography

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1 Selected InSAR bibliography

1.1 Basic theory

SAR: *Curlander and McDonough*, 1991; *Simons and Rosen*, 2007, 2015; *Massonnet and Souyris*, 2008; *Franceschetti and Lanari*, 1999; *Moreira et al.*, 2013; ROI-PAC algorithms (2000)

InSAR: *Simons and Rosen*, 2007, 2015; *Massonnet*, 1997; *Massonnet and Feigl*, 1998; *Massonnet and Souyris*, 2008; *Rosen et al.*, 2000; *Burgmann et al.*, 2000; *Hanssen*, 2001; *Dzurisin and Lu*, 2006; *Moreira et al.*, 2013; ROI-PAC algorithms (2000)

Filtering and unwrapping: *Goldstein et al.*, 1988; *Goldstein and Werner*, 1998; *Chen and Zebker*, 2001; *Ghiglia and Pritt*, 1998

Split spectrum ionospheric corrections: *Fattahi et al.*, 2017a; *Gomba et al.*, 2016, 2017

Zero Doppler processing and geometric coregistration: *Sansosti et al.*, 2006; *Eineder*, 2003

LOS to 3D decompositions: *Bechor and Zebker*, 2006; *Fialko et al.*, 2001a; *Wright et al.*, 2004; *Morishita et al.*, 2016; *Jung et al.*, 2009; *Grandin et al.*, 2016

Atmospheric Corrections: *Doin et al.*, 2009; *Jolivet et al.*, 2011, 2014; *Remy et al.*, 2011, 2015; *Fattahi and Amelung*, 2015; *Barnhart and Lohman*, 2013a; *Bekaert et al.*, 2015; *Parker et al.*, 2015; *Scott and Lohman*, 2016; *Lin et al.*, 2010; *Tymofyeyeva and Fialko*, 2015

Pixel tracking from SLCs and high resolution optical imagery: *Avouac and Leprince*, 2015; *Avouac et al.*, 2006

ENVISAT:

ALOS-1: *Sandwell et al.*, 2008

COSMO-SkyMED: *Milillo et al.*, 2016, 2014

Sentinel-1 TOPS: *De Zan and Guarnieri*, 2006; *Prats-Iraola et al.*, 2012; *Yague-Martinez et al.*, 2016; *Fattahi et al.*, 2017b; *Grandin*, 2015; *Grandin et al.*, 2016

ALOS-2 ScanSAR: *Lindsey et al.*, 2015; *Natsuaki et al.*, 2016; *Liang and Fielding*, 2016, 2017a,b; *Liang et al.*, 2017, 2018

Time series: *Berardino et al.*, 2002; *Hooper et al.*, 2004; *Hooper*, 2008; *Hooper et al.*, 2012; *Lopez-Quiroz et al.*, 2009; *Biggs et al.*, 2010a; *Samsonov*, 2010; *Fattahi and Amelung*, 2013; *Agram and Simons*, 2015; *Osmanoğlu et al.*, 2016

SRTM DEM: *Farr et al.*, 2007

TanDEM-X DEMs: *Krieger et al.*, 2007; *Rizzoli et al.*, 2017

1.2 Volcanology

Reviews: *Dzurisin and Lu*, 2006; *Pinel et al.*, 2014; *Lu and Dzurisin*, 2014; *Hooper et al.*, 2012

Atmospheric anomalies in volcanoes: *Parker et al.*, 2015; *Stephens et al.*, 2020; *Albino et al.*, 2019, 2020; *Yip et al.*, 2019

Etna: *Massonnet et al.*, 1995; *Beauducel et al.*, 2000; *Lundgren and Rosen*, 2003

Long Valley: *Fialko et al.*, 2001b; *Montgomery-Brown et al.*, 2015; *Liu et al.*, 2011

1.2.1 Hot spots

Galapagos: *Amelung et al.*, 2000; *Jónsson et al.*, 2005; *Jónsson*, 2009; *Bagnardi and Amelung*, 2012; *Xu et al.*, 2016a

Kilauea: *Baker and Amelung*, 2012, 2015; *Poland et al.*, 2012; *Poland*, 2014; *Lundgren et al.*, 2013; *Neal et al.*, 2018; *Dzurisin et al.*, 2019; *Lundgren et al.*, 2019; *Anderson et al.*, 2019

Piton de la Fournaise: *Fukushima et al.*, 2010, 2005; *Peltier et al.*, 2017; *Smittarello et al.*, 2019a,b; *Richter and Froger*, 2020

Yellowstone: *Wicks et al.*, 2006; *Chang et al.*, 2007, 2010; *Tizzani et al.*, 2015; *Dzurisin et al.*, 2019; *Wicks et al.*, 2020

1.2.2 Subduction zones

Tolbachik (Kamchatka) dike intrusion and lava extrusion: *Lundgren et al.*, 2015a; *Kubanek et al.*, 2017

Aleutians (reviews): *Lu and Dzurisin*, 2014; *Dzurisin et al.*, 2019

Okmok: *Lu et al.*, 2010; *Lu and Dzurisin*, 2010; *Biggs et al.*, 2010b

Cascades (volcano geodesy review): *Poland et al.*, 2017

Colima (conduit pressurization): *Salzer et al.*, 2015

Agung: *Albino et al.*, 2019

1.2.3 Subduction zones: Andes

Regional analysis: *Reath et al.*, 2019

Northern Andes: *Fournier et al.*, 2010; *Parks et al.*, 2011; *Morales Rivera et al.*, 2016

Tungurahua: *Fournier et al.*, 2010; *Biggs et al.*, 2010a; *Champenois et al.*, 2014; *Morales Rivera et al.*, 2016; *Muller et al.*, 2018; *Hickey et al.*, 2020

Reventador: *Arnold et al.*, 2017, 2019

Nevado del Ruiz: *Lundgren et al.*, 2015b

Cotopaxi: *Morales Rivera et al.*, 2017; *Arnold et al.*, 2018

Central Andes: *Pritchard and Simons*, 2002, 2004a; *Henderson and Pritchard*, 2013

Uturuncu: *Fialko and Pearse* 2012; *Hickey et al.* 2013; *Henderson and Pritchard* 2017

Lazufre: *Froger et al.*, 2007; *Ruch et al.*, 2008, 2009; *Remy et al.*, 2014; *Henderson et al.*, 2017

Sabancaya: *Jay et al.*, 2015; *MacQueen et al.*, 2020

Lascar: *Pavez et al.*, 2006; *Richter et al.*, 2018

Southern Andes: *Fournier et al.*, 2010; *Pritchard et al.*, 2013; *Delgado et al.*, 2017; *Reath et al.*, 2019

Laguna del Maule: *Feigl et al.*, 2014; *Le Mével et al.*, 2015, 2016; *Novoa et al.*, 2019

Copahue: *Velez et al.*, 2011, 2015; *Lundgren et al.*, 2017

Llaima: *Fournier et al.*, 2010; *Bathke et al.*, 2011; *Remy et al.*, 2015; *Delgado et al.*, 2017

Villarrica: *Delgado et al.*, 2017

Cordon Caulle: *Jay et al.*, 2014; *Delgado et al.*, 2016, 2018, 2019; *Delgado*, 2020; *Wendt et al.*, 2017; *Euillades et al.*, 2017

Calbuco: *Nikkhoo et al.*, 2016; *Delgado et al.*, 2017

Chaiten: *Fournier et al.*, 2010; *Wicks et al.*, 2011; *Reath et al.*, 2019

Hudson: *Pritchard and Simons*, 2004b; *Delgado et al.*, 2014

1.2.4 Iceland

Eyjafjallajökull: *Pedersen and Sigmundsson*, 2006; *Hooper*, 2008; *Sigmundsson et al.*, 2010

Bardarbunga: *Pagli et al.*, 2007; *Sigmundsson et al.*, 2015; *Riel et al.*, 2015; *Dirscherl and Rossi*, 2018; *Spaans and Hooper*, 2018; *Parks et al.*, 2017

Upptyppingar: *Hooper et al.*, 2011

1.2.5 Africa

Dabbahu: *Wright et al.*, 2006; *Grandin et al.*, 2009, 2010a,b

Nyamulagira: *Wauthier et al.*, 2013

Nyiragongo: *Wauthier et al.*, 2012

1.2.6 Volcanic deformation triggered by megathrust earthquakes

Southern Andes: *Pritchard et al.*, 2013

Japan: *Takada and Fukushima*, 2013; *Ozawa and Fujita*, 2013

1.3 Earthquakes and Active Tectonics

Reviews: *Lohman, 2011; Elliott et al., 2016a; Funning and Garcia, 2018; Barnhart et al., 2019; Morishita, 2019; Huang et al., 2020*

Haiti 2010: *Calais et al., 2010; Hayes et al., 2010; Hashimoto et al., 2011*

Canterbury 2011: *Elliott et al., 2012*

Kaikoura 2016: *Hamling et al., 2017; Wang et al., 2018; Morishita et al., 2018*

Norcia 2016: *Delorme et al., 2020*

1.3.1 Japan

Tohoku 2011: *Kobayashi et al., 2011; Feng and Jónsson, 2012*

Crustal earthquakes triggered by Tohoku: *Kobayashi et al., 2012; Fukushima et al., 2013, 2018*

1.3.2 Zagros and Makran

Fold and thrust belt deformation: *Barnhart and Lohman, 2013b; Barnhart et al., 2013*

Bam 2003: *Funning et al., 2005; Fialko et al., 2005; Fielding et al., 2005, 2009*

Balochistan interseismic: *Fattahi and Amelung, 2016; Barnhart, 2017*

1.3.3 Tibet and Himalayas

Interseismic strain Tibet: *Elliott et al., 2008; Jolivet et al., 2012; Daout et al., 2016, 2018*

Interseismic strain Main Himalayan Thrust: *Grandin et al., 2012*

Tibet (normal faults): *Elliott et al., 2010*

Wenchuan 2008: *Shen et al., 2009; Fielding et al., 2013; Feng et al., 2017a; Tong et al., 2010a*

Nepal 2015: *Elliott et al., 2016b; Grandin et al., 2015*

1.3.4 California

San Andreas interseismic deformation: *Fialko, 2006; Tong et al., 2013*

Landers 1992: *Massonnet et al., 1993; Fialko, 2004a,b; Xu et al., 2016b*

Hector Mine 1999: *Fialko et al., 2001a, 2002; Jónsson et al., 2002*

San Andreas aseismic slip: *Wei et al., 2009; Tymofyeyeva et al., 2019*

El Mayor Cucapah 2010: *Wei et al., 2011; Huang et al., 2017*

Napa 2014:

Ridgecrest 2019

1.3.5 South America

Andean crustal earthquakes: *Holtkamp et al.*, 2011; *Devlin et al.*, 2012; *Jay et al.*, 2015; *Ebmeier et al.*, 2016; *Champenois et al.*, 2017; *Wimpenny et al.*, 2018; *Xu et al.*, 2019

Antofagasta 1995: *Pritchard et al.* 2002, 2006; *Pritchard and Simons* 2006

Tarapaca 2005: *Peyrat et al.*, 2006; *Bie et al.*, 2017

Tocopilla 2007: *Béjar-Pizarro et al.*, 2010; *Motagh et al.*, 2010; *Loveless et al.*, 2010

Iquique gap interseismic coupling: *Béjar-Pizarro et al.*, 2013

Maule 2010: *Tong et al.*, 2010b; *Lin et al.*, 2013

Pichilemu 2010: *Ryder et al.*, 2012

Constitucion 2012: *Ruiz et al.*, 2013

Illapel 2015: *Feng et al.*, 2017b; *Grandin et al.*, 2016; *Klein et al.*, 2017

Chiloe 2016: *Xu*, 2017; *Moreno et al.*, 2018

Pedernales 2016: *Nocquet et al.*, 2017; *Gombert et al.*, 2018

1.4 Glaciers

Theory: *Joughin et al.*, 1996, 1998; *Kwok and Fahnestock*, 1996

Tidal flexure and grounding line: *Goldstein et al.*, 1993; *Mohr et al.*, 1998; *Joughin et al.*, 2010; *Schmeltz et al.*, 2001

Southern Patagonia Icefield: *Rignot et al.*, 1996a,b; *Michel and Rignot*, 1996; *Forster et al.*, 1999; *Rott et al.*, 1998; *Mouginot and Rignot*, 2015; *Malz et al.*, 2018

Bardarbunga ice-covered caldera collapse: *Riel et al.*, 2015

UAVSAR: *Minchew et al.*, 2015, 2016

Pixel tracking COSMO-SkyMED: *Minchew et al.*, 2017

Post glacial rebound: *Auriac et al.*, 2014, 2013; *Drouin and Sigmundsson*, 2019

1.5 Antropogenic deformation

1.5.1 Geothermal fields

Coso: *Fialko and Simons*, 2000; *Wicks et al.*, 2001

Cerro Prieto: *Trugman et al.*, 2014; *Samsonov et al.*, 2017; *Xu et al.*, 2017

Brady: *Ali et al.*, 2016

Raft River: *Ali et al.*, 2018; *Liu et al.*, 2018

Iceland: *Keiding et al.*, 2010; *Drouin et al.*, 2017; *Juncu et al.*, 2017, 2020; *Parks et al.*, 2020; *Receveur et al.*, 2019

1.5.2 Aquifers

Ciudad de Mexico: [Lopez-Quiroz et al., 2009](#); [Osmanoğlu et al., 2011](#); [Chaussard et al., 2014a](#)

California: [Murray and Lohman, 2018](#); [Riel et al., 2018](#); [Grapenthin et al., 2019](#); [Chaussard et al., 2017, 2014b](#)

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