Preface: Subsidence and society
Peter A. Fokker and Gilles Erkens

Infiltration of surface water through subsidence failure assessment applying electric prospecting, case Aguascalientes Valley, Mexico
Fernando Acuña-Lara, Jesús Pacheco-Martínez, Hugo Luna-Villavicencio, Martín Hernández-Marin, and Norma González-Cervantes

GPS geodetic infrastructure for subsidence and fault monitoring in Houston, Texas, USA
Gonzalo Agudelo, Guoquan Wang, Yuhao Liu, Yan Bao, and Michael J. Turco

Ground subsidence due to the backfill pressure in tunnel boring machine
Chang-Kyun Ahn and Seok-Won Lee

An InSAR based planning tool for maintaining the Dutch height system
Bas Alberts, Anneleen Oyen, and Pieter van Waarden

Nationwide deformation monitoring with SqueeSAR® using Sentinel-1 data
Christine A. Bischoff, Alessandro Ferretti, Fabrizio Novali, Andrea Uttini, Chiara Giannico, and Francesco Meloni

Updating the subsidence map of Emilia-Romagna region (Italy) by integration of SAR interferometry and GNSS time series: the 2011–2016 period
Gabriele Bitelli, Flavio Bonsignore, Sara Del Conte, Francesca Franci, Alessandro Lambertini, Fabrizio Novali, Paolo Severi, and Luca Vittuari

Detection and measurement of land subsidence and uplift using interferometric synthetic aperture radar, San Diego, California, USA, 2016–2018
Justin T. Brandt, Michelle Sneed, and Wesley R. Danskin

Parameter estimation of a multiple aquifer-aquitard system from a single extensometer record: Las Vegas, Nevada, USA
Thomas J. Burbey
Determination of amount of land subsidence based on INSAR and LiDAR monitoring for a dike strengthening project
Michel de Koning, Jacco K. Haasnoot, Rob R. van Buuren, Marco Weijland, and Cor Bisschop

Regulating Subsidence and its uncertainty in the Dutch Wadden Sea
Johannes A. de Waal and Mathijs W. Schouten

Sinkhole collapse propagation studies through instrumented small-scale physical models
Maria Ferentinou

Detection of sinkhole occurrence, experiences from South Africa
Maria Ferentinou, Wojciech Witkowski, Ryszard Hejmanowski, Hennie Grobler, and Agnieszka Malinowska

On the radioactive marker technique for in-situ compaction measurements: a critical review
Massimiliano Ferronato, Matteo Frigo, Laura Gazzola, Pietro Teatini, and Claudia Zoccarato

GNSS measurements for ground deformations detection around offshore natural gas fields in the Northern Adriatic Region
Stefano Gandolfi, Paolo Macini, Luca Poluzzi, and Luca Tavasci

Land subsidence monitoring using distributed fiber optic sensing with Brillouin scattering in coastal and deltaic regions
Kai Gu, Su-Ping Liu, Bin Shi, Yi Lu, and Yue-Hua Jiang

Ongoing research on the pumping-induced land deformation in the Aguascalientes Valley: an analysis of the recent data of vertical deformation, groundwater level variations and local seismicity
Martin Hernandez-Marin, Ruben Esquivel-Ramirez, Mario Eduardo Zermeño-De-Leon, Lilia Guerrero-Martinez, Jesus Pacheco-Martinez, and Thomas J. Burbey

IoT technology and big data processing for monitoring and analysing land subsidence in Central Taiwan
Wei-Chia Hung, Yi-An Chen, and Cheinway Hwang

Preliminary results of land subsidence monitoring in the Ca Mau Province
Kjell Karlsrud, Lloyd Tunbridge, Nguyen Quoc Khanh, and Nguyen Quoc Dinh

Integrated monitoring of subsidence due to hydrocarbon production: consolidating the foundation
Gini Ketelaar, Hermann Bähr, Shizhuo Liu, Harry Piening, Wim van der Veen, Ramon Hanssen, Freek van Leijen, Hans van der Marel, and Sami Samiei-Esfahany
Subsidence monitoring with TerraSAR-X data in Beijing Central Business District and subway tunnelings, China
Fengkai Li, Huili Gong, Beibei Chen, Mingliang Gao, and Chaofan Zhou

Spatial-temporal characterization of land subsidence induced by large area distribution of recent dredger fill
Jinxin Lin, Hanmei Wang, Tianliang Yang, and Xinlei Huang

Application of distributed fiber optic sensing technique in land subsidence monitoring in coastal areas: a case study in Tianjin, China
Su-Ping Liu, Bin Shi, Kai Gu, Cheng-Cheng Zhang, Song Zhang, Peng Yang, and Ji-Long Yang

PDCA method for management of land subsidence
Yoshiyuki Muramoto, Susumu Hayatsu, Michiharu Hiyama, Daisuke Murai, and Shoji Kunisue

Late Holocene differential subsidence and relative sea level rise in the Tabasco Delta, Mexico
Kees Nooren, Kim M. Cohen, Jaap H. Nienhuis, and Wim Z. Hoek

InSAR Detection of Localized Subsidence Induced by Sinkhole Activity in Suburban West-Central Florida
Talib Oliver-Cabrera, Shimon Wdowinski, Sarah Kruse, and Tonian Robinson

Absolute vertical motion of the Amsterdam Ordnance Datum (NAP)
Rene Reudink, Roland Klees, Bas Alberts, and Pieter van Waarden

Two decades of GPS/GNSS and DInSAR monitoring of Cardona salt mines (NE of Spain) – natural and mining-induced mechanisms and processes
Xavier Rodriguez-Lloveras, Carolina Puig-Polo, Nieves Lantada, Jose A. Gili, and Jordi Marturià

A multiscale approach for detection and mapping differential subsidence using multi-platform InSAR products
Dario E. Solano-Rojas, Shimon Wdowinski, Enrique Cabral-Cano, Batuhan Osmanoglu, Emre Havazli, and Jesus Pacheco-Martínez

Land subsidence and associated ground fracturing: study cases in central Mexico with ALOS-2 PALSAR-2 ScanSAR Interferometry
Tazio Strozzi, Dora Carreon-Freyre, and Urs Wegmüller
Permafrost seasonal surface changes revealed from Sentinel-1 InSAR time-series, Yamal peninsula
Kanayim Teshebaeva, Ko J. van Huisteden, Alexander V. Puzanov, Dmitry N. Balykin, Anton I. Sinitsky, and Nelley Kovalevskaya

Monitoring shallow subsidence in cultivated peatlands
Sanneke van Asselen, Gilles Erkens, and Francis de Graaf

Reliability of InSAR satellite monitoring of buildings near inner city quay walls
Arjan A. M. Venmans, Martin op de Kelder, Jarco de Jong, Mandy Korff, and Martijn Houtepen

Depressions caused by localized subsidence in the Netherlands, Belgium and Germany: a link with coal mining?
Geert-Jan Vis, Erik van Linden, Ronald van Balen, and Kim Cohen

Land subsidence contribution to coastal flooding hazard in southeast Florida
Shimon Wdowinski, Talib Oliver-Cabrera, and Simone Fiaschi

General Survey of Large-scale Land Subsidence by GACOS-Corrected InSAR Stacking: Case Study in North China Plain
Ruya Xiao, Chen Yu, Zhenhong Li, Chuang Song, and Xiufeng He

Study on the influence of supertall building load on adjacent tunnel subsidence
Yan Xu, Xuexin Yan, and Tianliang Yang

Introduction of Integrated Mining Impact Monitoring – i2Mon Development Project
Chia-Hsiang Yang and Andreas Müterthies

Subsidence of rice paddy and upland crop fields in Shinotsu Peatland, Hokkaido, Japan
Minoru Yokochi, Koichi Sekimoto, and Takashi Inoue

InSAR monitoring surface deformation induced by underground mining using Sentinel-1 images
Ling Zhang, Daqing Ge, Xiaofang Guo, Bin Liu, Man Li, and Yan Wang

Rapid Land Subsidence in Tianjin, China Derived from Continuous GPS Observations (2010–2019)
Ruibin Zhao, Guoquan Wang, Xiao Yu, Xiaohan Sun, Yan Bao, Genru Xiao, Weijun Gan, and Shuilong Shen
Land subsidence monitoring based on PS-InSAR Persistent Scatterers identification with spectral analysis method
Di Zhou, Jie Yu, Lin Zhu, Yanbing Wang, Jing Zhang, Shuai Jiao, and Ren Shu Chen

Determination of land subsidence value under permanent drainage conditions at the site of highway tunnel in Moscow
Aleksandr V. Anikeev, Olga N. Eremina, and Irina V. Kozliakova

Hydrologic control on natural land subsidence in the shallow coastal aquifer of the Ravenna coast, Italy
Marco Antonellini, Beatrice Maria Sole Giambastiani, Nicolas Greggio, Luciana Bonzi, Lorenzo Calabrese, Paolo Luciani, Luisa Perini, and Paolo Severi

A reanalysis of the collapse of the Heidegroeve: subsidence over an abandoned room and pillar mine due to previously unknown mine workings underneath
Roland Frits Bekendam

Ground motion areas detection (GMA-D): an innovative approach to identify ground deformation areas using the SAR-based displacement time series
Roberta Bonì, Claudia Meisina, Linda Poggio, Alessandro Fontana, Giulia Tessari, Paolo Riccardi, and Mario Floris

Factors controlling natural subsidence in the Po Plain
Luigi Bruno, Bruno Campo, Bianca Costagli, Esther Stouthamer, Pietro Teatini, Claudia Zoccarato, and Alessandro Amorosi

Analysis of land subsidence changes on the Beijing Plain from 2004 to 2015
Lin Guo, Huili Gong, Xiaojuan Li, Lin Zhu, Wei Lv, and Mingyuan Lyu

Identification of the ground movements caused by mining-induced seismicity with the satellite interferometry
Ryszard Hejmanowski, Wojciech T. Witkowski, Artur Guzy, and Agnieszka Malinowska

Effect of brine injection into shallow formation on land subsidence in the Southern Kanto gas field, in Japan
Kenjiro Kawano, Hiroshi Iwamoto, Daisuke Murai, Takahiro Egami, Tatsuo Shimamoto, Yuji Hayashi, and Tsutomu Nakagawa

Leaking recharge mechanism in the multi-layer aquifer system of a typical land subsidence area in Beijing
Kunchao Lei, Fengshan Ma, Jiurong Liu, Yong Luo, Wenjun Cui, Yi Zhou, He Liu, Xinghui Wang, Miaozhuang Tian, and Long Zhao
The Secondary Consolidation (Creep) due to Geohistorical Overburden Pressure in the Houston-Galveston Region, Texas
Yi Liu, Jiang Li, Zheng N. Fang, Mojtaba Rashvand, and Tranell Griffin

An overview of the land subsidence phenomena occurring in Greece, triggered by the overexploitation of the aquifers for irrigation and mining purposes
Constantinos Loupasakis

Towards unraveling total subsidence of a mega-delta – the potential of new PS InSAR data for the Mekong delta
Philip S. J. Minderhoud, Ivana Hlavacova, Jan Kolomaznik, and Olaf Neussner

Altered surface hydrology as a potential mechanism for subsidence in coastal Louisiana
Jaap H. Nienhuis, Torbjörn E. Törnqvist, and Gilles Erkens

Dynamic variation characteristics of layered monitored land subsidence near a fast railway line
Kaiwen Shi and Yong Luo

Characterizing marshland compressibility by an in-situ loading test: design and set-up of an experiment in the Venice Lagoon
Pietro Teatini, Cristina Da Lio, Luigi Tosi, Alessandro Bergamasco, Stefano Pasqual, Paolo Simonini, Veronica Girardi, Paolo Zorzano, Claudia Zoccarato, Massimiliano Ferronato, Marcella Roner, Marco Marani, Andrea D’Alpaos, Simonetta Cola, and Giuseppe Zambon

Wavelet analysis of land subsidence time-series: Madrid Tertiary aquifer case study
Roberto Tomás, José Luis Pastor, Marta Béjar-Pizarro, Roberta Boni, Pablo Ezquerra, José Antonio Fernández-Merodo, Carolina Guardiola-Albert, Gerardo Herrera, Claudia Meisina, Pietro Teatini, Francesco Zucca, Claudia Zoccarato, and Andrea Franceschini

Land subsidence due to groundwater extraction and tectonic activity in Pingtung Plain, Taiwan
Duc-Huy Tran and Shih-Jung Wang

Characteristics of consolidation settlements and sedimentary environments of the late Pleistocene–Holocene deposits in the Mekong Delta and Ho Chi Minh City, Vietnam
Minh Hoang Truong and Dinh Thanh Nguyen

Influence of pore water pressure change on consolidation behavior of saturated poroelastic medium
Chao-Lung Yeh, Wei-Cheng Lo, Cheng-Wei Lin, and Chung-Feng Ding
Assessment of subsidence and consolidation of dredger fill area based on SBAS-InSAR and laboratory tests
Qing-bo Yu, Qing Wang, Xue-xin Yan, Tian-liang Yang, Jian-ping Chen, Meng Yao, Kai Zhou, and Xin-lei Huang

Experimental study on mechanism for pumping-induced land subsidence
Yun Zhang, Guofeng He, Jichun Wu, Zhiduo Zhu, Xuexin Yan, and Tianliang Yang

Spatial variation of three-dimensional deformation: a case study in the north-eastern Beijing plain, China
Jiahui Zhou, Lin Zhu, Huili Gong, Huijun Li, Liping Zheng, Rui Cheng, and Hanrui Sun

Modeling of land subsidence caused by groundwater withdrawal in Konya Closed Basin, Turkey
Ahmed Wedam Ahmed, Ekrem Kalkan, Artur Guzy, Mine Alacali, and Agnieszka Malinowska

Land subsidence modelling for decision making on groundwater abstraction under emergency situation
Masaatsu Aichi

Understanding the dynamic behaviour for the Madrid aquifer (Spain): insights from the integration of A-DInSAR and 3-D groundwater flow and geomechanical models
Roberta Boni, Claudia Meisina, Pietro Teatini, Francesco Zucca, Claudia Zoccarato, Andrea Franceschini, Pablo Ezquerro, Marta Béjar-Pizarro, José A. Fernández-Merodo, Carolina Guardiola-Albert, José L. Pastor, Roberto Tomás, and Gerardo Herrera

Atlantis, a tool for producing national predictive land subsidence maps of the Netherlands
Huite Bootsma, Henk Kooi, and Gilles Erkens

Multi-scale simulation of rock compaction through breakage models with microstructure evolution
Giuseppe Buscarnera, Yanni Chen, José Lizárraga, and Ruiguo Zhang

Towards regionally forecasting shallow subsidence in the Netherlands
Thibault Candela, Kay Koster, Jan Stafleu, Wilfred Visser, and Peter Fokker

Analogue model of ground ruptures due to groundwater pumping in an aquifer above a bedrock ridge
Mariano Cerca, Dora Carreón-Freyre, and Pietro Teatini

Assessment of Subsidence Risk Associated with Brackish Groundwater Development in the Coastal Lowlands Aquifer, Houston, Texas, USA
Neil Deeds, Michael Turco, Van Kelley, Christina Petersen, and Susan Baird
Parameterisation of the Koppejan settlement prediction model using cone penetration testing and gradient boosting
Kevin Duffy, Klaas Siderius, and Mike Long

Numerical simulation of land subsidence above an off-shore Adriatic hydrocarbon reservoir, Italy, by Data Assimilation techniques
Matteo Frigo, Massimiliano Ferronato, Laura Gazzola, Pietro Teatini, Claudia Zoccarato, Massimo Antonelli, Anna Antonia Irene Corradi, Maria Carolina Dacome, Michela De Simoni, and Stefano Mantica

Blending measurements and numerical models: a novel methodological approach for land subsidence prediction with uncertainty quantification
Laura Gazzola, Massimiliano Ferronato, Matteo Frigo, Pietro Teatini, Claudia Zoccarato, Anna Antonia Irene Corradi, Maria Carolina Dacome, Ernesto Della Rossa, Michela De Simoni, and Stefano Mantica

Elasto-viscoplastic modeling of subsidence above gas fields in the Adriatic Sea
Fabrizio Gemelli, Anna Corradi, Giorgio Volonté, Stefano Mantica, and Michela De Simoni

DInSAR data assimilation for optimising maintenance at transition zones between bridges and road embankments: a numerical study
Claudio Giangreco, Arjan A. M. Venmans, and Dario Peduto

An engineering approach to quantify geomechanical safety factors in UGS programs
Giovanni Isotton, Pietro Teatini, Raffaele Stefanelli, Massimiliano Ferronato, Carlo Janna, Matteo Cerri, and Timur Gukov

Use of displacement as a proxy for dike safety
Elahe Jamalinia, Phil Vardon, and Susan Steele-Dunne

Assessment of subsidence risk associated with aquifer storage and recovery in the Coastal Lowlands Aquifer System, Houston, Texas, USA
Van Kelley, Michael Turco, Neil Deeds, Christina Petersen, and Chris Canonico

Modelling subsidence due to Holocene soft-sediment deformation in the Netherlands under dynamic water table conditions
Henk Kooi and Gilles Erkens

Creep consolidation in land subsidence modelling; integrating geotechnical and hydrological approaches in a new MODFLOW package (SUB-CR)
Henk Kooi and Gilles Erkens
Land subsidence modelling using a long short-term memory algorithm based on time-series datasets
Huijun Li, Lin Zhu, Huili Gong, Hanrui Sun, and Jie Yu

A New Software to Model Earth Fissure Caused by Extensive Aquifer Exploitation and its Application to the Guangming Village Case, China
Yueting Li, Matteo Frigo, Yan Zhang, Lin Zhu, Massimiliano Ferronato, Carlo Janna, Xulong Gong, Jun Yu, Pietro Teatini, and Shujun Ye

Three-dimensional fully coupled study of groundwater seepage and soil deformation under the action of cyclic pumping and recharge
Zujiang Luo, Di Ning, Zhao Li, and Xiaowei Tian

Regional subsidence at the former Texcoco Lake: numerical modelling and settlements prediction
Efrain Ovando-Shelley, Alexandra Ossa-Lopez, and Renata Gonzalez

Predicting land deformation by integrating InSAR data and cone penetration testing through machine learning techniques
Melika Sajadian, Ana Teixeira, Faraz S. Tehrani, and Mathias Lemmens

On the uncertainties of monitoring subsidence from small sources: Dutch mining regulation on subsidence monitoring and its role in communication and accountability
Mathijs W. Schouten and Johannes A. de Waal

About geomechanical safety for UGS activities in faulted reservoirs
Pietro Teatini, Claudia Zoccarato, Massimiliano Ferronato, Andrea Franceschini, Matteo Frigo, Carlo Janna, and Giovanni Isotton

Mapping the autonomous subsidence for the rural and urban areas in Woerden, the Netherlands
Erik van der Putte

Integrated impact assessment of adaptive management strategies in a Dutch peatland polder
Henk van Hardeveld, Harm de Jong, Maxim Kneppfle, Thijs de Lange, Paul Schot, Bas Spanjers, and Sven Teurlincx

Numerical simulation of land subsidence caused by subway train vibration using PFC
Jianxiu Wang, Yansheng Deng, Na Xu, Tianliang Yang, Xuexin Yan, Hanmei Wang, Xinlei Huang, Xiaotian Liu, and Xiangjun Pei
A shallow compaction model for Holocene Mississippi Delta sediments
Claudia Zoccarato, Torbjörn E. Törnqvist, Pietro Teatini, and Jonathan G. Bridgeman

Factors that condition physical vulnerability to ground fracturing in Mexico City
Dora Carreon-Freyre, Raul I. Gutierrez-Calderon, Mariano Cerca, and Carlos F. Alcantara-Duran

Systematic assessment of damage to buildings due to groundwater lowering-induced subsidence: methodology for large scale application in the Netherlands
Ana Laura Costa, Sien Kok, and Mandy Korff

Land Subsidence risk maps and InSAR based angular distortion structural vulnerability assessment: an example in Mexico City
Enrique Fernández-Torres, Enrique Cabral-Cano, Dario Solano-Rojas, Emre Havazli, and Luis Salazar-Tlaczi

Hydraulic behavior of subsidence-induced surface discontinuities in the hydrogeology of the Aguascalientes valley
Lilia Guerrero-Martinez, Martín Hernández-Marín, and Ángel Eduardo Muñoz-Zavala

Land subsidence caused by groundwater exploitation in Quetta and surrounding region, Pakistan
Najeeullah Kakar, Din Muhammad Kakar, and Sadia Barrech

GreenhousePeat: a model linking CO2 emissions from subsiding peatlands to changing groundwater levels
Kay Koster, Arnoud Frumau, Jan Stafleu, Joris Dijkstra, Arjan Hensen, Ilona Velzeboer, Joana Esteves Martins, and Willem Jan Zaadnoordijk

How to connect societal concerns on subsidence to expert knowledge
Ingrid C. Kroon, Peter A. Fokker, and Jaap N. Breunese

Coastal Lowlands’ Inundation Risk Assessment with High-resolution TanDEM-X DEM in Qingdao Coastal Plains, China
Peng Li, Miao Li, Zhenhong Li, and Houjie Wang

Different disaster characteristics of earth fissures and their influence factors in the Beijing plain
Zhao Long, Luo Yong, Li Yumei, Tian Fang, Liu He, Lei Kunchao, Sha Te, Kong Xiangru, and Lu Menghan
The potential impact of measures taken by water authorities on greenhouse gas emissions
Anne Marieke Motelica-Wagenaar, Tim A. H. M. Pelsma, Laura Moria, and Sarian Kosten

Greenhouse gas emissions and surface water management
Anne Marieke Motelica-Wagenaar and Jos Beemster

Building damage assessment and settlement monitoring in subsidence-affected urban areas: case study in the Netherlands
Gianfranco Nicodemo, Dario Peduto, and Settimio Ferlisi

Local land subsidence exacerbates inundation hazard to the Kujukuri Plain, Japan
Mao Ouyang, Yuka Ito, and Tomochika Tokunaga

Geometrical and geotechnical characterization of the earth fissures appeared in the Guadalentín Valley (southeastern Spain) after the September 2012 flooding
José Luis Pastor, Joaquín Mulas, Roberto Tomás, Gerardo Herrera, José Antonio Fernández-Merodo, Marta Béjar-Pizarro, Luis Jordá, Juan Carlos García López-Davalillos, Ramón Aragón, and Rosa María Mateos

A social costs and benefits analysis of peat soil-subsidence towards 2100 in 4 scenarios
Tim A. H. M. Pelsma, Anne Marieke Motelica-Wagenaar, and Simon Troost

Reconstruction of earth fissures 3-D from videos
Adrián Riquelme, Roberto Tomás, Miguel Cano, José Luis Pastor, Brian Gootee, and Joseph P. Cook

Remotely triggered subsidence acceleration in Mexico City induced by the September 2017 Mw 7.1 Puebla and the Mw 8.2 Tehuantepec September 2017 earthquakes
Dario Solano-Rojas, Enrique Cabral-Cano, Enrique Fernández-Torres, Emre Havazli, Shimon Wdowinski, and Luis Salazar-Tlaczani

Vulnerability of Venice’s coastland to relative sea-level rise
Luigi Tosi, Cristina Da Lio, Sandra Donnici, Tazio Strozzi, and Pietro Teatini

Using InSAR settlement data in a levee strengthening project for building settlement risk assessment
Rob R. van Buuren, Jacco K. Haasnoot, Michel de Koning, Marco Weijland, and Hans J. W. van Zanten

The effect of land subsidence on real estate values
Wouter Willemsen, Sien Kok, and Onno Kuik
Research on solute transport characteristics in the process of artificial recharge to control land subsidence in deep confined aquifer
Jianzhong Wu, Xuexin Yan, Tianliang Yang, and Xinlei Huang

Land subsidence characteristics and disaster prevention in the Tongzhou area, Beijing
Luo Yong, Zhao Long, Zhu Lin, Tian Fang, Lei Kunchao, and Sun Aihua

Subsidence prediction of reinforced soil layer by geosynthetic using large-scale 1g physical model
Marwan Al Heib, Mouhamad Hassoun, Pascal Villard, Fabrice Emeriault, and Abbas Farhat

Management of groundwater in the Nobi Plain that modeled groundwater use for earthquake disasters and environmental preservation
Kenji Daito

The 6M approach to land subsidence
Gilles Erkens and Esther Stouthamer

Pressurized drainage can effectively reduce subsidence of peatlands – lessons from polder Spengen, the Netherlands
Jantine Hoekstra, Annette van Schie, and Henk A. van Hardeveld

Investigating the effectiveness of drain infiltration to minimize peat oxidation in agricultural fields in Flevoland, the Netherlands
Frouke Hoogland, Arjen S. Roelandse, Beatriz de La Loma González, Maarten J. Waterloo, Perry W. Mooij, Sabine A. Verhagen, and Jouke Velstra

Establishment and practice of land subsidence control and management system for deep foundation pit dewatering in Shanghai
Xinlei Huang, Tianliang Yang, Jianzhong Wu, Jinxin Lin, and Ye He

Cost-benefit analysis of urban subsidence mitigation strategies in Gouda, the Netherlands
Sien Kok and Saskia Hommes-Slag

Can we elevate the subsiding coastal plain of the Netherlands with controlled sedimentation?
Kay Koster, Jan Stafleu, Peter C. Vos, and Michiel J. van der Meulen
The application of land subsidence control technologies caused by deep foundation pit dewatering
Jinbao Liu

Application of seismic prospecting to determine the width of influence of surface faults associated to land subsidence – a case of study in the Aguascalientes Valley, México
Hugo Luna-Villavicencio, Jesús Pacheco-Martínez, Fernando Acuña-Lara, Martín Hernández-Marín, and Norma González-Cervantes

Pilot test of study on brine injection into shallow formation for mitigating land subsidence in the Southern Kanto Gas Field in Japan
Noriyuki Muraoka, Yuji Hayashi, Katsuhiro Nakamura, Toshiaki Yamaguchi, Kazunori Ono, Shota Kuroshima, Akira Kurihara, Nobuhiro Ono, and Tsutomu Nakagawa

Committee for managing the risk by Faults and Cracks due to subsidence in Aguascalientes State, México
Jesús Pacheco-Martínez, Martín Hernández-Marín, Mario E. Zermeño-de-León, Norma González-Cervantes, José A. Ortiz-Lozano, Omar Vázquez-Gloria, and Armando Roque-Cruz

Groundwater Regulation and the Development of Alternative Source Waters to Prevent Subsidence, Houston Region, Texas, USA
Christina Petersen, Michael J. Turco, Alia Vinson, Joseph A. Turco, Alan Petrov, and Mark Evans

Detection of subsidence in the Ebro Delta plain using DInSAR: analysis of the measurements and the factors that control the phenomenon
Xavier Rodriguez-Lloveras, Miquel Vilà, Oscar Mora, Fernando Pérez, Roser Pi, and Jordi Marturià

Mitigating Land Subsidence in the Coachella Valley, California, USA: An Emerging Success Story
Michelle Sneed and Justin T. Brandt

Dutch national scientific research program on land subsidence: Living on soft soils – subsidence and society
Esther Stouthamer, Gilles Erkens, Kim Cohen, Dries Hegger, Peter Driessen, Hans Peter Weikard, Mariet Hefting, Ramon Hanssen, Peter Fokker, Jan van den Akker, Frank Groothuisje, and Marleen van Rijswijk

Why we urgently need a public subsidence information service in the Netherlands
Tirza M. van Daalen, Peter A. Fokker, Paul J. F. Bogaard, and Michiel J. van der Meulen

Towards a legal strategy fitting today's challenge of reducing impacts of subsidence in the Netherlands
Martijn van Gils, Esther Stouthamer, and Frank Groothuisje
Integrated management of groundwater exploitation and recharge in Shanghai based on land subsidence control
Tianliang Yang, Xuexin Yan, Xinlei Huang, and Jianzhong Wu

Solutions for subsidence in the California Delta, USA, an extreme example of organic-soil drainage gone awry
Steven J. Deverel, Sabina Dore, and Curtis Schmutte

Land subsidence and managed aquifer recharge in Pingtung Plain, Taiwan
Cheh-Shyh Ting, Kou-Feng Chiang, Sheng-Hsin Hsieh, Chi-Hung Tsao, Chi-Hung Chuang, and Kang-Teng Fan