

List of accepted Proposals (TSX-Archive)

The following table gives a complete overview about all accepted proposals. The proposal id links to the proposals executive summary (only for 'non-confidential' proposals)

Proposal Id	Title	Investigator
<u>CAL2775</u>	Correlating the faulting mechanism characteristics of the Mw8.2, 2014, megathrust Iquique earthquake with the observed surface response and structural damage (Archived scenes)	Fortuno, Catalina - CIGIDEN, Pontificia Universidad Catolica de Chile, Ingenieria Estructural y Geotecnica
<u>CAL2942</u>	TerraSAR-X data for the analysis and validation of airborne SAR data acquired with the ESA's SnowSAR instrument	Coccia , Alexander - MetaSensing BV, Airborne operations
<u>CAL3304</u>	Risk Monitoring and Preventive Diagnosis of Cultural World Heritage sites using Multi-Temporal SAR Interferometry of TerraSAR-X data in archive	Chen, Fulong - Key Laboratory of Digital Earth Science, Institute of Remote Sensing and Digital Earth
<u>CAL3505</u>	Target detection and feature analysis based on SAR images	Guangjiao, Zhou - Harbin Institute of Technology, School of Electronics and Information
<u>COA2891</u>	Comparison of SAR systems capabilities for the analysis of Oil Spill characteristics.	laneve, Giovanni - University of Rome , DIAEE
<u>COA2984</u>	Monitoring of the water-area variations of Dongting Lake in China with TerraSAR-X images	difei, shi - hunan institute of science and technology, department of construction and engineering
<u>COA3213</u>	Archived data to constrain glacier velocities in Alaska, Patagonia, and the Russian Arctic	Pritchard, Matthew - Cornell University, Earth and Atmospheric Science
<u>GEO2722</u>	The study of Cold Debris flow in Northern Alaska with TerraSAR-X images: part 1 archive data analysis	Gong, Wenyu - University of Alaska Fairbanks, Geophysical Institute
<u>GEO2806</u>	Measuring ground displacement using InSAR techniques	Marjanovic, Milos - TUM, Chair of Landslide Research
<u>GEO2815</u>	Research on monitoring ground subsidence in Suzhou	Yuan, Ming - Suzhou University of Science and Technology, Department of Spatial Information and Surveying Engineering
<u>GEO2845</u>		

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	Analysis of post-impoundment landslide activities in Three Gorges reservoir area using archived TerraSAR-X data stacks	Zhang, Lu - Wuhan University, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote
<u>GEO2870</u>	Volcano InsTAbility (VITA)	Di Traglia, Federico - University of Firenze, Earth Sciences
<u>GEO3016</u>	Land subsidence monitoring and understanding from space: the Ravenna area (Northern Italy) case history	Bonì, Roberta - University of Pavia, Earth and Environmental Sciences
<u>GEO3018</u>	TerraSAR-X time-series analysis for monitoring surface deformation in Ha Noi, the capital of Vietnam	Chang, Chung-Pai - Center for Space and Remote Sensing Research, National Central University
<u>GEO3061</u>	A time-series analysis of glacial movement on the Greenland and Antarctica with multi-temporal TerraSAR-X synthetic aperture radar	Hong, Sang-Hoon - Korea Polar Research Institute, Division of Polar Ocean Environment
<u>GEO3086</u>	Delineation and characterization of faults in Eastern Himalaya foreland fans using TerraSAR-X data	Ekka, Amar Bishram - Geological Survey of India, Photogeology and Remote Sensing
GEO3134	Landslide detection by TerraSAR-X data	Masaki, ARAI - Leibniz Universität Hannover, Institute of Photogrammetry and GeoInformation
<u>GEO3138</u>	Use of archived data to search for ground deformation in eastern North America	Pritchard, Matthew - Cornell University, Earth and Atmospheric Science
<u>GEO3149</u>	Ground subsidence monitoring research in Suzhou	Yuan, Ming - Suzhou University of Science and Technology, Department of Spatial Information and Surveying Engineering
<u>GEO3185</u>	GEPATAR: GEotechnical and Patrimonial Archives Toolbox for ARchitectural conservation in Belgium	Walstra, Jan - Royal Belgian Institute of Natural Sciences, Geological Survey of Belgium
<u>GEO3224</u>	Precise motion-tracking of persistent scatterers using high-resolution spotlight mode SAR data for infrastructure health monitoring	Lu, Zhong - Southern Methodist University, Earth Sciences
<u>GEO3421</u>	Using the InSAR Technique (e.g., PS) to investigate the land subsidence in one of the historical positions in Tehran City	Mirzadeh, Sayyed Mohammad Javad - University of Tehran, Surveying and Geo-spatial Engineering
<u>GEO3453</u>		

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	Environmental controls on landslide motion revealed by InSAR and pixel offset tracking	Handwerger, Alexander - NASA Jet Propulsion Lab, Earth Surface And Interior
<u>GEO3483</u>	Potential of using spatial TerraSAR-X ScanSAR datafor geological mapping	ZOUARI, HØdi - Water Researches and Technologies Centre, Technopark of Borj Cedria, Natural Water Treatment Laboratory
<u>GEO3498</u>	Development of the methodology of creating predictive models and search inrelation to basic geological and industrial types of mineral deposits in Kazakhstan on the basis of modern data processing technology ground-spaceresearch	Kikkarina, Altynay - SLPP Institute of Ionosphere, Ground-Space, Geodynamic and Geophysical Monitoring (GSGGM) Department
GEO3510	detailed geomorphological mapping and analysis of the Sarycheleck rockslide in the Western Tien Shan based on remote sensing and GIS	Langenwalter, Katrin - Universit Salzburg, Geomorphology
<u>HYD2810</u>	Land subsidence as inferred from TerraSAR-X data due to groundwater extraction	Chen, Jingyi - Stanford University, Geophysics
<u>HYD2824</u>	Identifying spatial-temporal patterns of glacier changes in the High Mountain Asia with TerraSAR-X data	Liming, Jiang - Chinese Academy of Sciences, Institute of Geodesy and Geophysics
<u>HYD2869</u>	Tidal flexure of ice shelves: the key to understanding Antarctic grounding zones	Marsh, Oliver - University of Canterbury, Gateway Antarctica
<u>HYD2903</u>	InSAR/GNSS time series detect sinking cities along downstream of the Three Gorges Reservoir in China	Zhou, Zhiwei - Wuhan University, Global Navigation Satellite System Research Center
HYD2918	Estimation of hydrological and plant parameters in Tibetan wetlands using multi-temporal TerraSAR-X data	Xie, Chou - Institute of Remote Sensing and Digital Earth, Chinese Academy of Science, Laboratory of Radar Remote Sensing
<u>HYD2926</u>	Snow Height Estimation by Difference Phase Interferometry Technique in X-Band SAR Data	hatami, javad - Masters students, Islamic Azad University, Yazd
<u>HYD2966</u>	Dikes under pressure Technical and ecological Vulnerability and Resilience of dike landscapes - Methodology development using TSX-Archive data	Marzahn, Philip - LMU Munich, Department of Geography
<u>HYD3110</u>	Integrating RADAR images and flooding hydrological modeling	Maltese, Antonino - University of Palermo, DICAM
<u>HYD3192</u>	UsingTerraSAR-X for the change detection of Tonle Sap (TonlØSap) water line	Li, Yishan - Tsinghua University, Center for Earth System Science
<u>HYD3362</u>		

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	Test and validation of TSX Data for the Flood Monitoring Service in Red River Pilot Project (Vietnam) for the Hydrologic Exploitation ESA Platform - HEP.	Garcia Robles, Javier - TRE Altamira, Post-Processing
<u>HYD3486</u>	Dam Monitoring and modeling through satellite SAR data	Tessari, Giulia - University of Padua, Geosciences
<u>LAN2708</u>	Combining TerraSAR-X and TanDEM-X in a quad-pol sensor	Weissgerber, Flora - Telecom Paristech, TSI
<u>LAN2782</u>	EnFusionMap	Rosentreter, Johannes - Freie Universität Berlin, Remote Sensing and Geoinformatics
<u>LAN2784</u>	Greenland glaciers acceleration and climate change: intra-seasonal insights	van Leijen, Freek - Delft University of Technology, Department of Geoscience and Remote Sensing
<u>LAN2787</u>	Fluctuations of tidewater glaciers in Hornsund Fiord	Błaszczuk, Malgorzata - Centre for Polar Studies, University of Silesia, Geomorphology
<u>LAN2793</u>	Building non-linear displacement using SAR data	Cerchiello, Vania - IUSS, Risk and Emergency Management
<u>LAN2820</u>	Use of TerraSAR-X data archive to support multi-hazard risk analysis within the RASOR project	Koudogbo, Fifame Nadege - Altamira Information, Altamira Information
<u>LAN2833</u>	Utilization of the high spatio-temporal resolution of TerraSAR-X observations for recent ground deformation monitoring and SAR image processing. Case study in Bratislava, Slovakia	Papco, Juraj - Slovak University of Technology, Faculty of Civil Engineering, Department of Theoretical Geodesy
<u>LAN2844</u>	Two-dimensional ground deformation monitoring and measurement base on a modified SBAS InSAR method in Southern Jiangsu, China	Dong, Shaochun - Nanjing University, School of Earth Sciences and Engineering
<u>LAN2848</u>	Research on the application of SAR image interpretation	Yong, Yang - Chang an University, Remote Sensing College
<u>LAN2911</u>	Building vulnerability map for Lisbon City (Portugal) using TSX data	Falco, Ana Paula - Instituto Superior Técnico - Universidade de Lisboa, Department of Civil Engineering, Architecture and Georesources
<u>LAN2914</u>	Fusion of SAR and Multispectral data for mapping of natural areas	Guida, Raffaella - University of Surrey, Surrey Space Centre - Electronic Engineering
<u>LAN2927</u>		

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	Monitoring of Urban Villages in Shenzhen, China from High-Resolution GF-1 and TerraSAR-X data	WEI, Chunzhu - University of Salzburg, Department of Geoinformatic
<u>LAN2935</u>	Multi-temporal Analysis of Arctic Glacier Movements by X-band SAR Satellite Observations	Jung, Hyung-Sup - University of Seoul, Dept. of Geoinformatics
<u>LAN2945</u>	Land Subsidence Monitoring of Kunming Area Using Time Series TerraSAR-X images	lingli, yangya - Kunming University of Science and Technology, Faculty of Land Resource Engineering
<u>LAN2952</u>	Roughness modulation of Greenland Ice Sheet hydrology and ice-flow dynamics	Sole, Andrew - University of Sheffield, Geography
LAN2959	Assessing dam stability and the role of short repeat time SAR Interferometry : the joint use of TerraSAR-X and COSMO-SkyMed constellations.	Milillo, Pietro - University of Basilicata, School of Engineering
<u>LAN2982</u>	Ground deformation of Taiyuan city based on Permanent Scatterer technique with TerraSAR-X images	lina, yan - shanxi university of technology, college environmental science and engineering
<u>LAN2988</u>	Subsidence-Sensitive Urbanization in developing countries: Case study of Kolkata, India	Roychowdhury, Koel - Presidency University, Department of Geography
<u>LAN2990</u>	Ground Subsidence Monitoring in Changsha city with TerraSAR-X Images	yuefei, jia - Beijing University of Technology, School of City Jiaotong
<u>LAN3000</u>	Land Subsidence due to ground water exploitation	Malik, Kapil - Indian School of Mines, Mining Engineering
<u>LAN3007</u>	Rice monitoring with multi-temporal and dual-polarimetric TerraSAR-X data	xiaofeng, zhu - Harbin Institute of Technology, Land resource engineering school
<u>LAN3021</u>	Feature analysis of DEM generated by repeat pass InSAR processing and guideline examination of updating existing DEM	NONAKA, TAKASHI - Nihon Univeisity, College of Industrial Technology
<u>LAN3025</u>	Use of Interferometric techniques to monitor landdeformation in different landscapes	Avtar, Ram - United Nations University, Institute for the Advanced Study of Sustainability
<u>LAN3072</u>	Land Cover Mapping over Urban Areas with Rich Texture Using Multitemporal TerraSAR-X Datasets	JIANG, Mi - Hohai Univeristy, School of Earth Science and Engineering
<u>LAN3076</u>	Exploration of TerraSAR-X and TanDEM-X datasets by three universities in Germany, Poland and the Ukraine	Kresse, Wolfgang - University of Applied Sciences Neubrandenburg, Landscape Architecture

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		and Geomatics
<u>LAN3080</u>	SAR features extraction for earthquake damage mapping purposes	Bignami, Christian - Istituto Nazionale di Geofisica e Vulcanologia, Setallite EO Unit
<u>LAN3111</u>	Coregistration of various images of Forest over Remningstorp test site	KOENIGUER, Elise - ONERA, DTIM
<u>LAN3157</u>	Detection of ancient relics based on high resolution SAR images	Dong, Shaochun - Nanjing University, School of Earth Sciences and Engineering
<u>LAN3188</u>	Forensic engineering of infrastructures exposed to structurally deficiency, seismicity, and landslides with InSAR for health monitoring	Kim, Jin-Woo - Southern Methodist University, Roy M. Huffington Department of Earth Sciences
LAN3221	Land Subsidence Monitoring in Kunming with InSAR techniques	yin, zhenxing - Guangdong Provincial Key Laboratory of Nanophotonic Functional Materials and Dev, South China Normal University
<u>LAN3308</u>	Automation of the flood extent and depth mapping in urban areas from TSX archive.	Guida, Raffaella - University of Surrey, Surrey Space Centre - Electronic Engineering
<u>LAN3334</u>	Mapping of river sediments after flood water events along the river Elbe	Riedel, Bjoern - TU Braunschweig, Civil and Environmental Engineering
<u>LAN3337</u>	Ground deformation monitoring in Guiyang with TerraSAR-X images	Shuqing, Zhao - Sun Yat-sen University, School of Earth Science and Geological Engineering
<u>LAN3344</u>	Seasonal Landslide Flow Rate Fluctuations on the Palos Verdes Peninsula in Southern California	Madson, Austin - University of California - Los Angeles, Geography
LAN3371	Croplands Classification Using Fusion of Fully Polarimetric Synthetic Aperture Radar (PolSAR) and Optical Data	Khosravi, Iman - University of Teheran, School of Surveying and Geospatial Engineering, College of Engineering, Department of Remote Sensing
<u>LAN3465</u>	Land cover classification with focus on forest degradation patterns in tropical regions of Ecuador, Philippines and Zambia	Lippe, Melvin - Thünen Institute of International Forestry and Forest Economics, Forestry Worldwide
<u>LAN3484</u>	Aboveground biomass retrieval in sub-tropical forests - The potential of combined X-, C- and L-band SAR	Waqar, Mirza Muhammad - Chiba University, Center of Environmental Remote Sensing

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<u>MTH2705</u>	Stereo-Radargrammetry Mapping of TerraSAR-X Spotlight Data	yf, yang - central south university, geoscience college
<u>MTH2762</u>	Analyses on surface subsidence due to underground mining operations in singhbhum shear zone using DInSAR technique	ISHWAR, S G - Indian School of Mines, Dhanbad, Mining Engineering
<u>MTH2772</u>	Small scale and large gradient mining-induced deformation monitoring with high resolution SAR data	Chaoying, Zhao - Changan University, College of engineering geology and geomatics
<u>MTH2842</u>	Crop mapping with multi-temporal polarimetric TerraSAR-X data	shuhua, yan - Nanjing University, School of Geosciences
<u>MTH2843</u>	Glacier surface velocity estimation using TerraSAR-X images	ju, chu - Hunan University, Surveying, Mapping and Remote Sensing
<u>MTH2866</u>	Digital Surface Models generation by high resolution dual pol TerraSAR-X imagery: analysis of polarimetric SAR tomography potentialities over urban areas	Porfiri, Martina - University of Rome "La Sapienza", DICEA
<u>MTH2878</u>	High-resolution spaceborne radar data for damage assessment in urban areas and combination with estimated vulnerability	DellAcqua, Fabio - University of Pavia and EUCENTRE, Electronics
<u>MTH2946</u>	Ground Deformation Estimation Using TerraSAR-X images in Pearl River Delta	wang, xiaohua - Guilin University of Technology, College of Earth Sciences
<u>MTH2953</u>	Multiple Scatterers Detection in SAR Tomography	Budillon, Alessandra - Università degli studi di Napoli Parthenope, Dipartimento di Ingegneria
<u>MTH2974</u>	Derive the precise 3D motion field of mountain glaciers and build the functional model between motion changes and mass balance	Jia, Li - Central South University, School of Geoscience and Info-Physics
<u>MTH3062</u>	Limitations of interferometry RADAR by satellite in urban areas	Aubrun, Michelle - University of Montreal, Geography
<u>MTH3093</u>	Enabling Widespread Adoption of Commercial SAR with Automated InSAR Signal Detection Algorithms	Woods, William - Stanford University, Electrical Engineering
<u>MTH3160</u>	Testing a Method for Change in LC/LU with flooding images	Papadakis, Georgios - University of Athens, Department of Informatics and Telecommunications
<u>MTH3178</u>	Interferometric processing for different acquisition modes	Lopez-Sanchez, Juan M - University of Alicante, DFISTS, EPS
<u>MTH3182</u>	SAR Tomography for 4D reconstruction	

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		Aaron Justin Samuel, Angel Caroline Johnsy - University Of Naples,Parthenope, Department of Engineering
<u>MTH3200</u>	Change Detection in UrbanAreas with TerraSAR-X images	Chen, Chenyue - School of Geosciences and Info-Physics, Central South University, Geomatics
<u>MTH3235</u>	Using TerraSAR-X Stripmap data for evaluating a Medieval Archeology Site in Southern Germany	Sibler, Philipp - Airbus DS Electronics and Border Security GmbH, Computing Platforms for Avionics TDEEH12
<u>MTH3261</u>	Deformation monitoring of metros using TerraSAR-X images	Jingxin, Hou - Central South University, Geosciences and Info-Physics
MTH3265	Development of new applications based on SAR products with accurate geometrical accuracy	Cong, Xiaoying - Technische Universitä München, Remote Sensing Technology
<u>MTH3273</u>	Mapping mining-induced time-series displacements with TerraSAR-X data andlogistic model	Yang, Zefa - School of Geosciences and Info-Physics, Central South University, Department of Geomatics
<u>MTH3358</u>	Study on Disaster Management System based on Integration of SAR Remote Sensing and GIS Technologies	Karimzadeh, Sadra - Tokyo Institute of Technology, Built environment
<u>MTH3367</u>	The monitoring and assesment of urban infrastructure in BEIJING area based on high-resolutionTerraSAR-X images	Lei, Pang - Beijing University of Civil Engineering and Architecture, Department of Remote Sensing Engineering, School of Surveying and Mapping Spatia
<u>MTH3368</u>	Convolutional Neural Networks for contextual denoising and classification of SAR images	Danilla, Carolyne - University of Twente, Geo-information and Earth Observation
<u>MTH3393</u>	Research on InSARroad surfacemulti-temporal deformation model withTerraSAR X images	Xuemin, Xing - Changsha University of Science and Technology, Traffic and Transportation Engineering
<u>MTH3492</u>	Multifrequency estimation of soil moisture andDIScrimination of atmospheric phase delay based on SAR interferometry (DIS-SAR)	Nico, Giovanni - Consiglio Nazionale delle Ricerche (CNR), Istituto per le Applicazioni del Calcolo (IAC)

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<u>OCE2811</u>	Interpretation of oil spill dynamics using TerraSAR-X data	Li, Xiaoming - Chinese Academy of Sciences, Institute of Remote Sensing and Digital Earth
<u>OCE2822</u>	Assessment of the dependence of the X-band TerraSAR-X co-polarized and cross-polarized normalized radar cross sections and related parameters on the sea surface wind vector and on the acquisition geometry	Grieco, Giuseppe - Agenzia Spaziale Italiana, Center for the Interpretation of Earth Observation Data (CIDOT)
<u>OCE2917</u>	Development and improvement of algorithms for automatic man-made marine structure identification	Velotto, Domenico - German Aerospace Center, Remote Sensing Technology Institute (IMF)
<u>OCE2995</u>	Investigation of wind retrieval under high wind condition using TS-X and TD-X	shao, weizeng - Ocean University of China, College of Physical and Environmental Oceanography
<u>OCE3027</u>	Study on marine oil spill classification using dual polarimetric TerraSAR-X images	Yu, LI - The Chinese University of Hong Kong, Institute of Space and Earth Information Science
<u>OCE3079</u>	Waves, wind and currents effect on the sea surface roughness characteristics and its application to the study of oil spills in the Gulf of Mexico. Historical database.	Esquivel-Trava, Bernardo - Instituto de Investigaciones Oceanológicas - UABC, Physical Oceanography,
OCE3150	Validation of a new polarization ratio for X-band SAR wind retrieval	shao, weizeng - Ocean University of China, College of Physical and Environmental Oceanography
<u>OCE3154</u>	Surveying long-lived mode-2 internal wave systems in the world's oceans	Magalhaes, Jorge M. - University of Porto, Interdisciplinary Centre of Marine and Environmental Research, Department of Geosciences, Environment and Spatial Planning
<u>OCE3201</u>	TerraSAR-X SAR data to monitor hazards related to extreme weather conditions and oil pollution	Migliaccio, Maurizio - Università di Napoli Parthenope, Engineering
<u>OCE3356</u>	Algorithm for wave retrieval from TerraSAR-X imagery in both VV- and HH-polarization	shao, weizeng - Ocean University of China, College of Physical and Environmental Oceanography
OCE3365	Combination of Multifrequency SAR Images for Sea Ice Classification	Dierking, Wolfgang - Alfred Wegener Institute for Polar and Marine Research, Climate Sciences

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RES3359

Novel method for monitoring peat-soil subsidence based on radar remote sensing

Fakhri, Falah - natural resources institute Finland (luke), Management and production of renewable resources