

List of accepted Proposals (TSX-New-Modes-2013)

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
CAL2146	Staring SL Test	Marschalk, Ursula - DLR, DFD-LAX
COA2198	TSX Wide ScanSAR Images Associated with VMS Information for Vessel Behaviour Monitoring	Zhou, Zheng-Shu - CSIRO, CCI
COA2312	Toward an integrated system for ship identification and oil spill movement using high-resolution SAR data	Yang, Chan-Su - Korea Institute of Ocean Science and Technology (KIOST), Korea Ocean Satellite Center
COA2330	High resolution SAR for assessing the structure and resilience of vegetated foreshores	van der Wal, Daphne - Royal Netherlands Institute for Sea Research (NIOZ), NIOZ Yerseke
COA2406	Observation and modeling of subsidence in Pearl River delta from interferometry and segmentation of TerraSAR-X imagery	Peng, Liu - Shenzhen University, Key Laboratory for Geo-Environment Monitoring of Coastal Zone, NASMG
COA2418	Monitoring of glacier and sea ice movement in the polar region	Hong, Sang-Hoon - Korea Polar Research Institute, Division of Polar Ocean Environment
COA2500	High-Resolution TerraSAR-X Data for an Improved Monitoring of Exposed Intertidal Flats (HiTIME)	Gade, Martin - Universität Hamburg, Institut für Meereskunde
GEO2168	Ice Flow Monitoring and Surveillance of Cauldron Forming in Iceland using TSX Staring Spotlight Acquisitions	Minet, Christian - Deutsches Zentrum für Luft- und Raumfahrt, MF-SAR
GEO2289	Moderate earthquake monitoring in china using TerraSAR ScanSAR data	Feng, Guangcai - Central South University, Department of Geomatics, School of Geosciences and Info-Physics
GEO2323	A high resolution deformation study of Norris Geyser Basin, Yellowstone National Park, using TSX Staring Spotlight mode data	Wicks, Charles - U. S. Geological Survey, Earthquake and Volcano Science Centers
GEO2354	Multi-Mode Exploration of High-Resolution Ground/Space Bi- and Multi-Static Staring Spotlight SAR	Wang, Robert Yu - Chinese Academy of Sciences, Inst. of Electronics, Dep. of Space Microwave Remote Sensing System
GEO2441	TSX Wide ScanSAR applied to volcanic deformation in the Andes	Pritchard, Matthew - Cornell University, Earth and Atmospheric Science
GEO2450	Monitoring and seismic disaster assessment on urban-epicentral active faults based on the new-mode SAR data	Zhang, Jingfa - China Earthquake Administration, Institute of Crustal Dynamics
GEO2462	Characterizing sinkhole formation and development in Texas and Louisiana (USA) using staring spotlight mode TerraSAR-X InSAR imagery	Lu, Zhong - Southern Methodist University, Earth Sciences

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<u>GEO2468</u>	Evaluation of landslides monitoring with DInSAR using the 6Beam Wide-Scansar and the Staring Spotlight TSX experimental modes	Mallorqui, Jordi J. - Universitat Politecnica de Catalunya (UPC), Signal Theory and Communications
<u>GEO2470</u>	InSAR detection of sinkhole activities in central Florida	Wdowinski, Shimon - Florida International University, Earth and Environment
<u>GEO2477</u>	Super-resolution SAR interferometry for landslide investigations	Perski, Zbigniew - Polish Geological Institute - National Research Institute, Carpathian Branch
<u>GEO2478</u>	TSX new modes data exploitation for subsidence studies in the Ravenna area (Northern Italy) and surroundings	Borgstrom, Sven - Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano
<u>GEO2493</u>	Using TerraSAR-X Staring Spotlight mode data to conduct a very high resolution study of multiple phenomena within the crater of Mount St. Helens	Wicks, Charles - U. S. Geological Survey, Earthquake and Volcano Science Centers
<u>GEO2497</u>	Monitoring of rockslide and periglacial processes in northern Norway using TerraSAR-X Staring Spotlight InSAR	Lauknes, Tom Rune - Norut, Earth Observation
<u>GEO2509</u>	InSAR analysis of historic buildings structural damage in Mexico City.	Cabral-Cano, Enrique - Universidad Nacional Autonoma de Mexico, Instituto de Geofisica
<u>GEO2516</u>	Recognizing re-nascent volcanic activity along the American Cordillera using 6-beam Wide ScanSAR TerraSAR-X interferometry	Feigl, Kurt - University of Wisconsin-Madison, Geoscience
<u>GEO2520</u>	Landslide deformation monitoring with staring spotlight mode TerraSAR-X data stack in Three Gorges area	Zhang, Lu - Wuhan University, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote
<u>GEO2630</u>	Monitoring ground deformation using TerraSAR-X Staring Spotlight data with dInSAR and sub-Pixel Offset Tracking (sPOT) for case studies in the Three Gorges Region of China	Muller, Jan-Peter - University College London, Space and Climate Physics
<u>GEO2657</u>	Monitoring ground deformation using TerraSAR StaringSpotlight data with dInSAR and sub-Pixel Offset Tracking (sPOT) for casestudies in United Kingdom	Muller, Jan-Peter - University College London, Space and Climate Physics
<u>GEO2658</u>	Monitoring ground deformation using TerraSAR StaringSpotlight data with dInSAR and sub-Pixel Offset Tracking (sPOT) for casestudies in South Korea and Brazil	Muller, Jan-Peter - University College London, Space and Climate Physics
<u>HYD2224</u>	Monitoring snow and ice on the power transmission corridors in alpine area	Ji, Xiaonan - University of Electronic Science and Technology of China, Institute of Automation Engineering
<u>HYD2278</u>	Mapping of Snow disaster coverage in pasture area with wide scanSAR	Ji, Xiaonan - University of Electronic Science and Technology of China, Institute of Automation Engineering
<u>HYD2378</u>	Utilization of TerraSAR-X Wide ScanSAR data for glaciological parameter derivation in Central Asia	Wendt, Anja - Bayerische Akademie der Wissenschaften, Kommission für Erdmessung und Glaziologie
<u>HYD2420</u>	Permafrost Monitoring Using the New Modes TerraSAR-X in the Qinghai-Tibet	Wang, Chao - Institute of Remote Sensing and Digital Earth, Chinese Academy of

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	Plateau	Sciences, Key Lab of Digital Earth
<u>HYD2427</u>	Melt pattern monitoring in Northeast Greenland ice sheet	Floricioiu, Dana - DLR, IMF
<u>HYD2454</u>	Iceberg and crevasse formation in Antarctica coastal zone	Floricioiu, Dana - DLR, IMF
<u>HYD2457</u>	Potential of Wide ScanSAR and Staring Spotlight modes for water resources monitoring and biodiversity maintain	YESOU, HervØ - SERTIT - UDS, N/A
<u>HYD2498</u>	On the detection of small-scale water level and water extent change using TerraSAR-X staring spotlight mode	Braun, Alexander - Queens University, Geological Sciences and Geological Engineering
<u>HYD2506</u>	OXBOW - Detailed mapping and monitoring of riverine wetlands with TerraSAR-X/ST Mode supported by UAV hyperspectral imaging	MROZ, Marek - University of Warmia and Mazury in Olsztyn, Department of Photogrammetry and Remote Sensing
<u>HYD2522</u>	Seasonal dynamics over permafrost across scales	Bartsch, Annett - University of Salzburg, Department of Geoinformatics - Z_GIS
<u>LAN2172</u>	Fine Deformation Monitoring of Shenzhen Bay Bridge using TerraSAR Staring Spotlight Images	XU, Bing - Central South University, Dep. of Geomatics, School of Geoscience and Info-Phys.
<u>LAN2188</u>	Urban Infrastructure Monitoring with Extremely HighResolution SAR Data	Zhu, Xiaoxiang - Remote Sensing Technology Institute (IMF), German Aerospace Center (DLR), SAR signal processing
<u>LAN2211</u>	Subsidence Monitoring of Potash Works Siegfried-Giesen	Schmidt, Ralph - Leibniz Universität Hannover, Institut für Photogrammetrie und GeoInformation
<u>LAN2231</u>	PS-InSAR analysis of oil and gas fields over Xinjiang province in China	Xiong, Wenxiu - Central South University, School of Geosciences and Info-Physics
<u>LAN2235</u>	Deformation monitoring of single buildings using TerraSAR Staring Spotlight images	Du, Yanan - Central South University of China, School of geosciences and Info-Physics
<u>LAN2245</u>	Multi-mode stereo radargrammetry with TSX staring spotlight data over Mount Song, China	Balz, Timo - Wuhan University, LIESMARS
<u>LAN2277</u>	Environmental impact assessment in the Motru-Rovinari coal basin with Staring Spotlight TerraSAR-X mode	Poenaru, Violeta Domnica - Romanian Space Agency, Space Applications
<u>LAN2358</u>	Interferometric SAR for Permafrost Infrastructure Monitoring in the Canadian North	Sharma, Jayanti - MDA Systems Ltd., Research and Development
<u>LAN2362</u>	Improving Detection, Density and Monitoring Accuracy of Persistent Targets for highly localized infrastructure failures	Poncos, Valentin - Kepler Space Inc. / University of Calgary, SAR systems and exploitation
<u>LAN2370</u>	Staring SpotLight SAR interferometry for urban subsidence monitoring: comparison and validation with StripMap SAR interferometry	Yu, Bing - Southwest Jiaotong University, Department of Remote Sensing and Geospatial Information Engineering
<u>LAN2377</u>	TerraSAR-X Staring Spotlight mode for damage assessment, looting monitoring and prospection of archaeological features in	Tapete, Deodato - Natural Environment Research Council, British Geological Survey

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	semi-arid environment	
<u>LAN2379</u>	Monitoring of Lochkov bridge by Persistent Scatterers Interferometry	Sustera, Jiri - Gisat, Sales and marketing department
<u>LAN2381</u>	Grassland management and biomass retrieval in an intensive dairy farm in Ireland using TerraSAR-X Staring Spotlight mode data.	Barrett, Brian - University of Glasgow, School of Geography and Earth Sciences
<u>LAN2391</u>	Assessment of environmental risks, groundwater potential and population dynamics around IDP/refugee camps.	Braun, Andreas - University of Tuebingen, Department for Geography
<u>LAN2400</u>	Snow avalanche mapping	Bühler, Yves - WSL Institute for Snow and Avalanche Research SLF, Snow Avalanches and Prevention
<u>LAN2404</u>	High Resolution Satellite-Acquired Synthetic Aperture Radar Data to Monitor Road Pavement Conditions	Necsoiu, Marius - Southwest Research Institute, Geosciences and Engineering Division
<u>LAN2405</u>	Very high-resolution PS-InSAR and TomoSAR for surface motion estimation in Wuhan, China	Liao, Mingsheng - Wuhan University, LIESMARS
<u>LAN2423</u>	New TSX Staring Spotlight Mode for vegetation analysis across four different biomes (boreal, temperate, tropical forests and savannah) - StarBiome	Thiel, Christian - Friedrich-Schiller University, Institute of Geography / Geoinformatics
<u>LAN2449</u>	Mapping invasive species <i>Vochysia divergens</i> in relation to flooding gradient in the Pantanal Region, Brazil	NUNES, GUSTAVO - FEDERAL UNIVERSITY OF MATO GROSSO, FOREST ENGINEERING
<u>LAN2456</u>	Research on Urban Building Extraction and Analysis with VHR SAR Imagery	Wu, Fan - Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, CAS key Laboratory of Digital Earth Sciences
LAN2465	Interferometric SAR for Slope Stability Monitoring In British Columbia	Rabus, Bernhard - Simon Fraser University, Applied Sciences, School of Engineering
<u>LAN2471</u>	Detecting and monitoring Xian Ground fissures, China with Multi-mode TerraSAR data	Chaoying, Zhao - Changan University, College of engineering geology and geomatics
<u>LAN2475</u>	Temporal subsidence monitoring of Dashengguan Yangtze river bridge based on TerraSARhigh resolution images	Hui, Yang - Southwest Jiaotong University, Faculty of Geosciences and Environmental Engineering
<u>LAN2496</u>	Detectability of low cost reflecting targets array forspaceborne monitoring of natural slopes and embankments in TerraSAR-X data	Toma, Stefan-Adrian - Advanced Studies and Research Center, Radar Remote Sensing Group
<u>LAN2508</u>	Slumgullion Landslide motion measured by InSAR and pixel offsets with Staring Spotlight data	Fielding, Eric - Jet Propulsion Laboratory, California Institute of Technology, Earth Sciences
<u>LAN2528</u>	The space-borne Interferometric Synthetic Aperture Radarapplications in assessment of the instable soil masses in urban areas	Andronic, Adrian - Technical University of Civil Engineering Bucharest, Geotechnical and Foundation Engineering
<u>MTH2183</u>	Absolute Geolocation Measurements using TerraSAR-X Staring Spotlight Data	Duque, Sergi - German Aerospace Center (DLR), Remote Sensing Technology

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		Institute (IMF)
<u>MTH2197</u>	Disaster Assessment and Environmental Conservation: Biomass Estimate for Bushfire Affected Urban Area	Zhou, Zheng-Shu - CSIRO, CCI
<u>MTH2213</u>	Providing high spatial resolution for land subsidence measurements in Shanghai and Tianjin using TerraSAR-X images	LI, Tao - Southwest Jiaotong University, Satellite Surveying and Mapping Application Center (SASMAC), National Administra
<u>MTH2240</u>	Staring spotlight images for archaeological prospections - case studies in Turkey, Egypt, and the Altai Mountains	Balz, Timo - Wuhan University, LIESMARS
<u>MTH2282</u>	Monitoring the deformation of the electrical towers by PS-INSAR	Wu, Baolong - University of Electronic Science and Technology of China, Institute of Automation Engineering
<u>MTH2290</u>	Using the TerraSAR-X Staring Spotlight Mode for Multistatic Radar Applications	Nies, Holger - University of Siegen, Center for Sensorsystems (ZEISS)
<u>MTH2297</u>	Investigation of target recognition capabilities of high resolution space-borne SAR for specific harbor and airport scenarios.	Hager, Manfred - DLR, Microwaves and Radar Institute, Department of Reconnaissance and Security
<u>MTH2320</u>	SAR maritime monitoring via a microsatellite constellation addition to an existing SAR mission	Peterson, Erica - University of Toronto, Institute for Aerospace Studies
<u>MTH2350</u>	Three-Dimensional Structure Model Reconstruction of Urban Target Based on Very High Resolution SAR	Peng, Xing - Central South University, Dep. of Geomatics, School of Geoscience and Info-Phys.
<u>MTH2359</u>	Monitoring Alpine Springtime Snow Melt with Wide Swath TSX	Small, David - University of Zurich, Dept. of Geography, Remote Sensing Laboratories
<u>MTH2422</u>	Evaluation of TerraSAR-X data for mapping deforestation and forestdegradation in Brazilian Amazon	Waske, Björn - Freie Universität Berlin, Insitut für Geographische Wissenschaften
<u>MTH2430</u>	Feasibility to Establish a Ground Motion Monitoring Service Using Continuous TerraSAR-X Acquisitions	Raggam, Hannes - Joanneum Research Forschungsgesellschaft mbH, Institute for Information and Communication Technologies
<u>MTH2466</u>	Retrieval of soil moisture and vegetation biomass in arid prairie usingTerraSAR-X data	Binbin, He - University of Electronic Science and Technology of China, Resources and Environment
<u>MTH2467</u>	Bridge monitoring with very high-resolution TSX observations	Wdowinski, Shimon - Florida International University, Earth and Environment
<u>MTH2473</u>	Analysis of the phase accuracy improvement of TerraSAR-X Staring mode in comparison to the Sliding mode	Teleaga, Delia Cosmina - Advanced Studies and Research Center, Remote Sensing
<u>MTH2531</u>	Improving Algorithms of Change Detection by Utilizing Staring Spotlight TerraSAR-X Data	Thiele, Antje - Karlsruher Institut für Technologie (KIT), Institut für Photogrammetrie und Fernerkundung (IPF)
<u>MTH2539</u>	Wide swath interferometric performance analysis of TerraSAR-X 6-beam ScanSAR mode	Koudogbo, Fifame Nadege - Altamira Information, Altamira Information

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<u>OCE2184</u>	Tracking and prediction of the path of the Giant Pine Island iceberg	Bigg, Grant - University of Sheffield, Department of Geography
<u>OCE2185</u>	Investigation of sea-ice and lead dynamics in FramStrait	Willmes, Sascha - University of Trier, Environmental meteorology
<u>OCE2192</u>	Ice dynamics in the marginal ice zone	Kaleschke, Lars - University of Hamburg, KlimaCampus, Institute of Oceanography
<u>OCE2203</u>	Development and improvement of algorithms for automated ship detection and classification on TerraSAR-X images	Tings, Björn - DLR MF, SAR BF
<u>OCE2254</u>	Internal wave systems in the tropical and western South Atlantic: from satellite views to local predictability	da Silva, Jose - University of Porto, Geosciences, Environment and Spatial Planning
<u>OCE2256</u>	Validation of established algorithms of wind and wave retrieval using TerraSAR-X data in coastal sea	shao, weizeng - Ocean University of China, College of Physical and Environmental Oceanography
<u>OCE2310</u>	High resolution imaging of ocean surface	Robinson, Michael - American University, Mathematics and Statistics
<u>OCE2355</u>	Whales and waves: zooplankton accumulation, fish and humpback whale foraging response, and the SAR observation of internal waves at Stellwagen Bank (Massachusetts, U.S.A.)	da Silva, Jose - University of Porto, Geosciences, Environment and Spatial Planning
<u>OCE2363</u>	Scientific evaluation of retrieval of small-scale sea ice features by using very high-resolution SAR imagery	Hwang, Byongjun - The Scottish Association for Marine Science, Sea ice
<u>OCE2395</u>	Cross-comparison of altimetric high resolution missions with TerraSAR-X Wide ScanSAR : understanding sea ice structures, river behaviour and small scale ocean signals	DURAND, Philippe - CNES, DCY/SI/AR
<u>OCE2413</u>	Oil spill detection and bathymetry assessment for numerical modeling forecast systems	Azevedo, Alberto - National Laboratory for Civil Engineering (LNEC), Hydraulics and Environment Department (DHA)
<u>OCE2431</u>	Observation of Polynias with a combination of various satellite sensors and modelsimulations	Hollands, Thomas - Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Klimawissenschaften
<u>OCE2434</u>	Measurements of sea surface wind using TerraSAR-X Wide ScanSAR data	Li, Xiaoming - Chinese Academy of Sciences, Institute of Remote Sensing and Digital Earth