

TanDEM-X Science Service System

The TanDEM-X Science Service System is a web interface for the submission and evaluation of scientific proposals. The portal is the main interface for Principal Investigators to define their acquisition requests. It is further used to monitor and track the status of submitted proposals and is a tool for the science coordination team to help organize the science user community of TanDEM-X.

- (2016/08/25): **TanDEM-X Digital Elevation Models Announcement of Opportunity & Proposal Call**
This proposal call aims for the first scientific exploitation of the final & global DEM product of the TanDEM-X mission. The TanDEM-X DEM is the main DEM product of the TanDEM-X mission and is available for all land masses, including Antarctica, and all latitudes above 60° North. The call is dedicated to the data of the two highest posting classes (12m & 30m). The 90m product variant is not available by this call, and will be offered later with simplified procedures.

Proposal submission deadline: December 1st, 2016, Midnight 24:00h, Central European Time (CET, with UTC Offset: UTC+1)

Extended Proposal submission deadline: December 7th, 2016, Noon 12:00h, Central European Time (CET, with UTC Offset: UTC+1)

Global DEM Proposal submission available under 'General Proposal Submission' Rules: Starting from December 13th, 2016.

Please check the following documents:

- ♦ **Announcement of Opportunity: TanDEM-X DEM:** This document gives a quick introduction on how to submit a DEM proposal, and explains all the constraints and peculiarities (e.g. quota limits, security regulations given by German law) of the call.
- ♦ **TanDEM-X DEM Product Specification:** This document reflects the latest status of the TanDEM-X DEM product specification, and explains the coordinate system, the product structure, additional information layer, and quality remarks, etc.

The production status of the deliverable DEM tiles is available by two interfaces:

- ♦ **A Google Earth compatible KMZ File:** The file delivers the bounding polygons of the DEM tiles, and can be also used offline in GIS tools. Quicklooks are not included.
- ♦ **TanDEM-X DEM status interface:** An interactive online map interface, which in addition delivers quicklooks of the DEM tiles. Tiles in the inner part of Antarctica (below -85°) are due to the Mercator projection not displayed; please check the KMZ file instead for those tiles.

Further information:

- ♦ **TanDEM-X Science Service System Manual:** The manual might give additional information about user registration, and all the proposal procedures, but please check the DEM AO document first.
- ♦ **License Agreement:** The license agreement defines the terms of use for TanDEM-X data. It has to be accepted and signed by the user, when the proposal is approved.
- ♦ **COFUR service fee price list:** The COFUR price list shows the service fee, which will be charged for all TanDEM-X products (e.g. DEM, IDEM, CoSSC), if the science proposal is submitted after the due date or under 'General Proposal Submission' rules.
- ♦ **Browser compatibility and other constraints:** This page is tested with Firefox, and the Microsoft Internet Explorer. Google Chrome might work. The Apple Safari browser is not supported in the moment. Some interfaces of the proposal web form require the support of the Google Maps API. If your local network or your national security regulations do not support the usage of Google services, try to make use of a proxy page.

- (2016/10/06): **TerraSAR-X/TanDEM-X Science Team Meeting 2016**

The next TerraSAR-X/TanDEM-X Science Team Meeting will be held in October 17-20, 2016 at DLR Oberpfaffenhofen, Germany

The main goals of the meeting are the presentation of results, exchange of experiences, and the information about the status of both missions.

Interested scientists are kindly invited to present their research results in an oral or poster presentation.

A registration is required. No registration fee will be charged for this meeting. After registration you can submit an abstract for your presentation.

Please notice the following deadlines:

Registration: July 17th, 2016 (closed)

Abstract submission: July 10th, 2016 (closed)

The final program is available for download now [here](#).

A list of accommodations is available [here](#).

- (2016/08/09): Updated Version (Vs 3.1) of the **TanDEM-X DEM Product Specification** This document reflects the current status of the TanDEM-X DEM product specification, and gives a first insight into further Digital Elevation Model products, which will become available to the science community in the future.
- (2014/05/19): First data sets of the final TanDEM-X Digital Elevation Model (DEM) are now available for download. Further global DEM tiles will become available for scientific exploitation through a dedicated Announcement of

Opportunity and Proposal Call planned for 2016.

Click here: [TanDEM-X Global DEM Demo Data](#)

- (2012/07/05): **CoSSC Generation and Interferometric Considerations** This document is intended to clarify how the Coregistered Single Look Slant range Complex (CoSSC) are generated and what are the particularities of the monostatic active and bistatic passive coregistered images.
- (2012/02/01): **TanDEM-X Experimental Product Description** This document gives an overview of the variety of experimental products generated from TanDEM-X acquisitions, and contains a description of the Co-registered Single Look Slant Range Complex (CoSSC) product structure and format.
- New science users need to **register** first to get an account (see also the side menu link 'Investigators Registration'). After submission of the registration form an automated email is created, providing a link to a verification page. With the successful submission of the verification form the user account will be created, and the user is registered.
- **Registered science users** may login using the form fields within the left side menu. The proposal interface can be accessed after login by selecting the link 'Investigator' on the left side menu.
- **Evaluators** may access detailed information about the proposals they have been appointed to and submit their comments and rating.
- Anybody may access information about which proposals have been accepted and read their executive summaries. Please check for this purpose the side menu links.
- Important documents can be accessed from the left side menu. The **TanDEM-X Science Plan** gives an overview about the scientific objectives of the TanDEM-X mission. The document **TanDEM-X Science Service System Manual** provides both a summary and a detailed description of the procedure for submitting a scientific proposal. In addition it guides users through the acquisition request for TanDEM-X image products

Call for Proposals:

Name of the Call	Description	Due Date
Global TanDEM-X DEM-AO	<p>This AO and proposal call aims for the first scientific exploitation of the final & global TanDEM-X DEM product of the TanDEM-X mission. The call is dedicated to the data of the two highest posting classes (12m & 30m). Please note that the 90m posting class product will be made available at a later date and with simplified procedures. The data provision is free of charge for all approved proposals submitted before due date. For proposals arriving after due date a service fee, according to the COFUR price list will be applied. The status overview of the deliverable tiles is offered by an online map interface or a Google Earth compatible KML layer. Please check in addition the following documents:</p> <ul style="list-style-type: none"> • Announcement of Opportunity: TanDEM-X DEM This documents gives a quick introduction on how to submit a DEM proposal, and explains all the constraints and peculiarities (e.g. the quota limits) of the call. • TanDEM-X DEM Product Specification This document reflects the latest status of the TanDEM-X DEM product specification, and explains the coordinate system, the product structure etc. 	December 1, 2016. CLOSED
SCIENCE PHASE AO	<p>The TanDEM-X Science Phase is dedicated to the demonstration of innovative techniques and experiments that have special orbital and imaging requirements in order to foster the development of new methods and applications. The proposed projects are foreseen for a special mission phase, which will take place from October 2014 to December 2015. A bundle of new interferometric operations modes for science user is available for this period. The data provision is free of charge for all approved proposals submitted before due date. For proposals arriving after the official due date the COFUR price list will be applied. Please also note that you cannot apply for all periods of the Science Phase, due to data take planning procedures. For further information please contact us via email (tandemx-science@dlr.de). Please check in addition the following documents:</p> <ul style="list-style-type: none"> • Announcement of Opportunity: TanDEM-X Science Phase • TanDEM-X Science Service System Manual 	June 30th, 2014. CLOSED 2nd call: October 16th, 2014 CLOSED
INTERMEDIATE DEM-AO	<p>This AO aims for the first scientific exploitation of DEM products (Intermediate DEM) of the TanDEM-X mission. Please note that the Intermediate DEM is not the final DEM product. The deliverable DEM tiles for this proposal call, produced for selected regions of the globe and solely based on the first global coverage of the mission, are giving a first impression and a preview for the DEM products to come. There is a quoted access for the data in the two highest posting classes (12m & 30m), while for the 90m posting class there is no quota limit at all. The data provision is free of charge for all approved proposals submitted before due date. For proposals arriving after due date the COFUR price list will be applied. The deliverable tiles can be easily inspected by the KML layer here</p>	March 18th, 2014. CLOSED
PRE-OPERATIONAL-AO	<p>This AO aims for user-specific experimental acquisition requests only. All data assigned to an approved proposal for this call will be free of charge.</p>	October 31st, 2010. CLOSED
GENERAL Proposal Submission	<p>This permanent proposal submission interface is open during the life time of the TanDEM-X mission. You can apply via science proposal for all main products of the TanDEM-X mission, which have been released so far, also outside of a dedicated proposal call. But please note that a service fee might be charged for the delivery of the data, please check the COFUR service fee price list. The following products are available under General proposal submission rules:</p>	Unlimited

- **Global DEM (DEM) Products:** This AO aims for the first scientific exploitation of the final & global DEM product of the TanDEM-X mission. The TanDEM-X DEM is the main DEM product of the TanDEM-X mission and is available for all land masses, including Antarctica, and all latitudes above 60° North. The AO is dedicated to the data of the two highest posting classes (12m & 30m). The 90m product variant is not available by this AO, and will be offered later with simplified procedures. For the delivery of the DEM data, which are assigned to positively evaluated proposal, a service fee according to the COFUR price list will be charged. Please check the DEM-AO document for important information including a how-to manual: **Document: Announcement of Opportunity: TanDEM-X DEM**
- **Intermediate DEM (IDEM) Products:** The Intermediate DEM data sets are based on the first mission year coverage, and are available for some selected regions only. You might still submit a proposal for this DEM product, if you are interested in this kind of data. The Intermediate DEM products might have gaps, especially for high mountain areas. The deliverable Intermediate DEM tiles can be inspected by a Google Earth compatible KML layer **here**.
- **CoSSC Products:** This type of proposal gives access to interferometric products of the TanDEM-X mission, which have been acquired for the global DEM, as well as for scientific proposals. An approved proposal includes both the (quoted) access to archived products, as well as the request for new interferometric data takes over specific test sites.