

Resource Summary Report

Generated by ASWG on Aug 2, 2026

ASTER

RRID:SCR_010478

Type: Tool

Proper Citation

ASTER (RRID:SCR_010478)

Resource Information

URL: <http://asterweb.jpl.nasa.gov/data.asp>

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Description: An imaging instrument onboard Terra, the flagship satellite of NASA's Earth Observing System (EOS) that collects and archives data to create detailed maps of land surface temperature, reflectance, and elevation. The ASTER project is a collaboration between NASA and the Japanese government to develop a scientific understanding of the Earth.

Abbreviations: ASTER

Synonyms: ASTER - Advanced Spaceborne Thermal Emission and Reflection Radiometer, Advanced Spaceborne Thermal Emission and Reflection Radiometer, Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER)

Resource Type: data or information resource, database

Keywords: climatology, cartography, earth sciences, map, topographical surveying, geospatial data, land surface temperature, reflectance, elevation, FASEB list

Resource Name: ASTER

Resource ID: SCR_010478

Alternate IDs: nlx_157751, r3d100011708

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260801T191015+0000

Ratings and Alerts

No rating or validation information has been found for ASTER.

No alerts have been found for ASTER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 204 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Blanco-Bercial L, et al. (2026) MetaZooGene Intercalibration Experiment (MZG-ICE): Metabarcoding Marine Zooplankton Diversity of the Global Ocean. Molecular ecology resources, 26(1), e70090.

Hromada SJ, et al. (2025) Climate and Dispersal Ability Limit Future Habitats for Gila Monsters in the Mojave Desert. Ecology and evolution, 15(3), e71008.

Ernst AR, et al. (2025) Diverse Ecological Strategies Increase Invasion Resistance in an Experimental Grassland Restoration. Ecology and evolution, 15(6), e71575.

Saber ES, et al. (2025) Fertile high-K magmatism and hydrothermal alteration zone associated with porphyry copper mineralization in Samra area, SE Sinai, Egypt. Scientific reports, 15(1), 44223.

Anshumali , et al. (2025) Impact of LULC changes on small watershed morphometry and delineation of sustainable conservation strategies for degraded transboundary rivers. Scientific reports, 15(1), 24063.

Al Saud MM, et al. (2025) Characterization of paleodrainages in desert regions of Saudi Arabia multisatellite images with field based study. Scientific reports, 15(1), 4550.

Eldosouky AM, et al. (2025) Advanced integrated strategy for structural and mineralogical exploration of inaccessible regions employing remote sensing and multiscale analysis of aeromagnetic data. Scientific reports, 15(1), 31205.

Fontaine FR, et al. (2025) Ongoing multiparameter unrest at the Montagne Pelée volcano on Martinique from 2019 to 2024. Scientific reports, 15(1), 23189.

Asgari M, et al. (2025) Aboveground net primary production spatio-temporal changes in the bioclimates of Alborz mountains based on multi-sensor satellite data. Scientific reports, 15(1), 23903.

Aftab S, et al. (2025) Acceleration towards clean energy with the emergence of promising signs of shallow geothermal resources in Northwestern Iran. Scientific reports, 15(1), 27594.

Scott AD, et al. (2025) Multiple Autopolyploid *Arabidopsis lyrata* Populations Stabilized by Long-Range Adaptive Introgression Across Eurasia. *Molecular biology and evolution*, 42(8).

Ali A, et al. (2025) Advanced satellite-based remote sensing and data analytics for precision water resource management and agricultural optimization. *Scientific reports*, 15(1), 27527.

Abd El-Wahed M, et al. (2025) The fault systems that control the occurrences of iron ore deposits in northeastern Aswan, Egypt. *Scientific reports*, 15(1), 4531.

Dong Y, et al. (2025) Estimation of 1 km Dawn-Dusk All-Sky Land Surface Temperature Using a Random Forest-Based Reanalysis and Thermal Infrared Remote Sensing Data Merging (RFRTM) Method. *Sensors (Basel, Switzerland)*, 25(2).

Hegab MAE, et al. (2025) Gold exploration in the Gabal Abu Karahish area, Central Eastern Desert, Egypt: an integrated geological perspective. *Scientific reports*, 15(1), 19730.

Peng M, et al. (2025) Mapping forest aboveground carbon stock of combined stratified sampling and RFRK model with mean annual temperature and precipitation. *Scientific reports*, 15(1), 17410.

Waananen A, et al. (2025) The fitness effects of outcrossing distance depend on parental flowering phenology in fragmented populations of a tallgrass prairie forb. *The New phytologist*, 247(2), 968.

Neelavannan K, et al. (2025) Geospatial distribution and anthropogenic litter impact on coastal mangrove ecosystems from the Saudi Arabia coast of the Gulf. *Scientific reports*, 15(1), 15964.

Metcalf A, et al. (2025) Submarine ash megabeds fed by far-traveled, shoreline-crossing pyroclastic currents from a large explosive volcanic eruption. *Science advances*, 11(33), eads9642.

Amraoui T, et al. (2025) Remote sensing mapping of structural and hydrothermal alteration in the mougueur inlier, Eastern high atlas, Morocco. *Scientific reports*, 15(1), 14982.