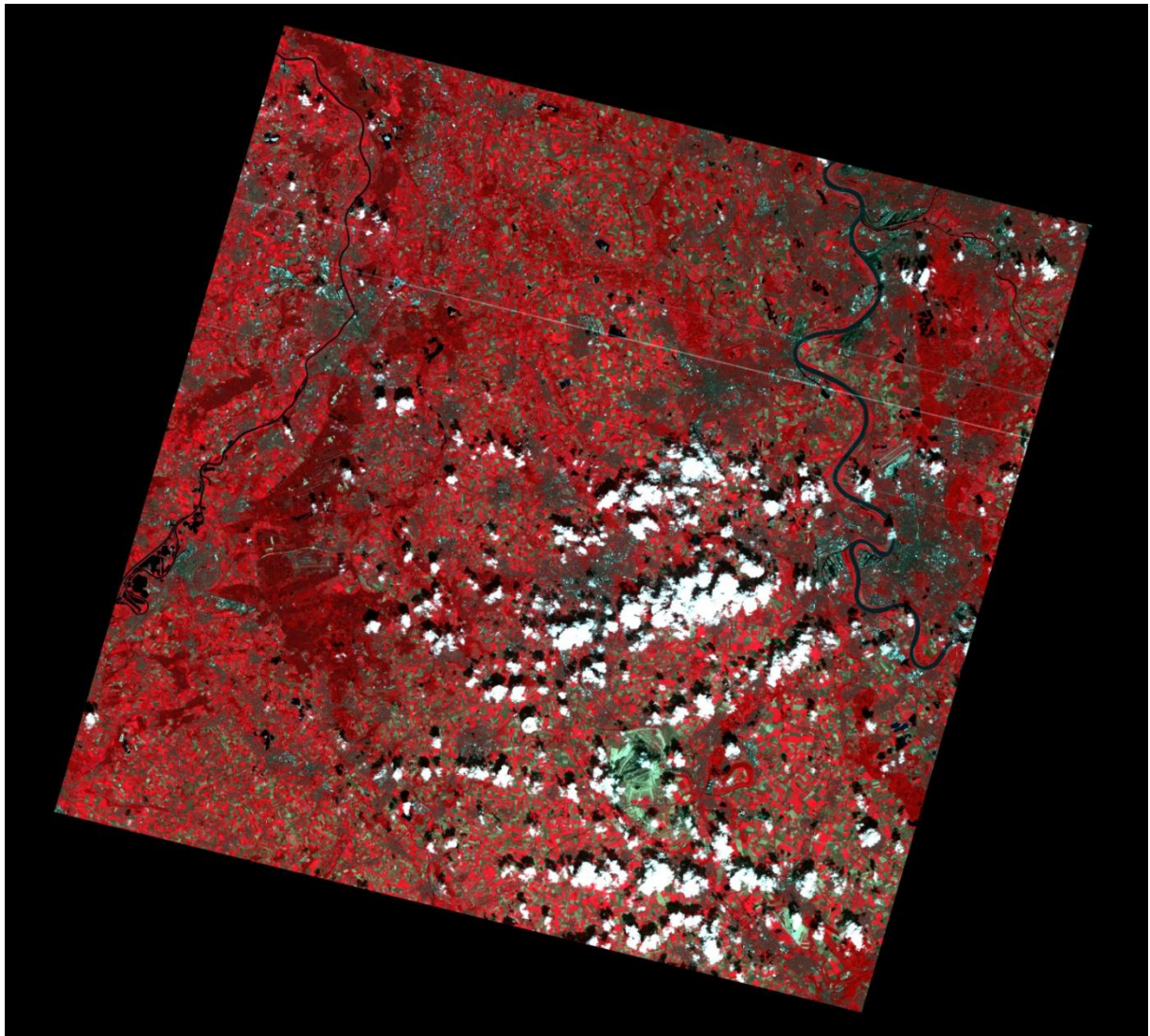# Documentation – ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer) data

Content	

files:	data
	
	    AST_07XT_00307242008103925_20081008215806_3991.hdf.met: metadata file
	
	    AST_07XT_00307242008103925_20081008215806_3991.hdf_nn_vnir.jpg: image file of VNIR
	
	    AST_07XT_00307242008103934_20081008215045_25428.hdf_vnir.dat: VNIR
	
	    AST_07XT_00307242008103925_20081008215806_3991.hdf_vnir.dat: metadata file
	
	    AST_07XT_00307242008103925_20081008215807_3991.hdf: SWIR (raw data)
	
	documentation
	
	    this file
	
	research
	
	    atbd-ast-07-09.pdf: information on ASTER Level 2B1 and ASTER Level 2B5 data
	
	    SurfaceReflectance.pdf: information on AST07 data

acquisition date:	2008-07-24
data product:	AST_09XT
data size:	data folder: 255 mb entire folder: 256 mb
provider:	Land Processes Distributed Active Archive Center (LP DAAC), NASA / USGS
language:	English
date of publication:	2008-10-09
date of purchase:	2008

Description	
description:	The 'Advanced Spaceborne Thermal Emission and Reflection Radiometer' (ASTER) is a multispectral sensor onboard the Terra satellite launched in December 1999 as part of NASA's Earth Observing System (EOS). ASTER is a cooperative effort between NASA, Japan's Ministry of Economy, Trade and Industry (METI) and Japan's Earth Remote Sensing Data Analysis Center (ERSDAC). ASTER is being used to obtain detailed maps of land surface temperature, reflectance and elevation. The three EOS platforms are part of NASA's Science Mission Directorate and the Earth-Sun System, whose goal is to observe, understand, and model the Earth system to discover how it is changing, to better predict change, and to understand the consequences for life on Earth (http://asterweb.jpl.nasa.gov/). The ASTER instrument consists of three separate instrument subsystems. Each subsystem has its own telescope and operates in a different spectral region. ASTER's three subsystems are: the Visible and Near Infrared (VNIR), the Shortwave Infrared (SWIR), and the Thermal Infrared (TIR). Spatial resolution is 15 m for VNIR, 30 m for SWIR and 90 m for TIR. For more information please go to: http://asterweb.jpl.nasa.gov/instrument.asp
more information:	SurfaceReflectance.pdf

Example

AST_07XT_00307242008103934_20081008215045_25428.hdf_vnir.dat (resampling method: nearest neighbor)

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