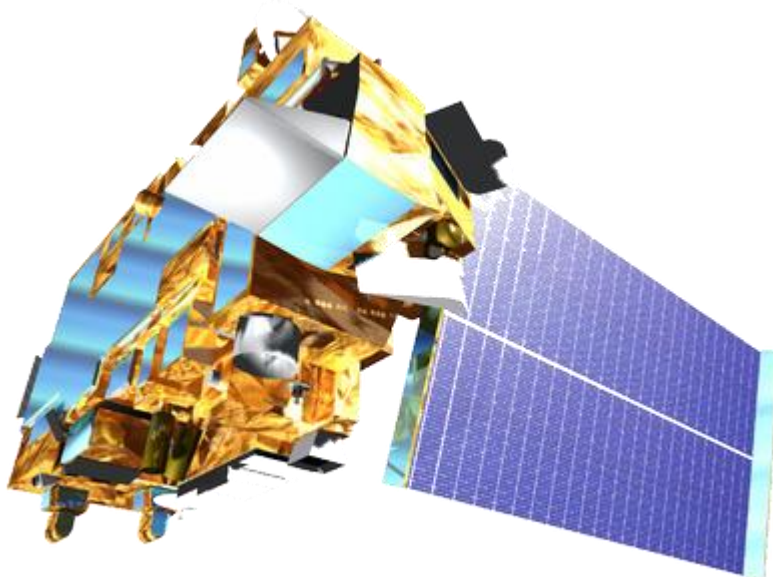


ASTER

Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) was launched in 1999 and remains fully operational. Flying at an altitude of 438 miles, ASTER has a 16-day revisit period and follows a sun-synchronous polar orbit. Each ASTER acquisition is approximately 60km by 60km . The ASTER instrument acquires information across the visible and infrared spectrums. Specifically, information is acquired by three separate instruments: VNIR (Visible and Near-Infrared Radiometer), SWIR (Shortwave Infrared Radiometer), and TWIR (Thermal Infrared Radiometer).





ASTER Specifications

Resolution: VNIR 15 m
SWIR 30 m
TIR 90 m

Nominal swath width: 60 km at Nadir

Bands: VNIR Band 1 (Green): 520-600 nm
VNIR Band 2 (Red): 630-690 nm
VNIR Band 3 (NIR): 780-860 nm
SWIR Band 4: 1.6-1.7 μm
SWIR Band 5: 2.145-2.185 μm
SWIR Band 6: 2.185-2.225 μm
SWIR Band 7: 2.235-2.285 μm
SWIR Band 8: 2.295-2.365 μm
SWIR Band 9: 2.36-2.43 μm
TIR Band 10: 8.125-8.475 μm
TIR Band 11: 8.475-8.825 μm
TIR Band 12: 8.925-9.275 μm
TIR Band 13: 10.25-10.95 μm
TIR Band 14: 10.95-11.65 μm

Archive availability: From 1999

Programmability: NO

Minimum area of purchase: Full scenes only

Stereo available: YES, along track stereo from Level 1A VNIR bands 3N and 3B

Best scale: 1:25,000 – VNIR & SWIR
1:50,000 – SWIR