INTERMAP.COM



Satellite Radar Data Collection

Low Cost Weather Independent Data Collection

Satellite Synthetic Aperture Radar (SAR) can be used to create images of the ground without the limitations imposed by optical sensors. Multiple frequencies and polarimetry can provide additional data for analysis.

Key Benefits and Features



Wide Area Coverage

Satellite Radar systems can collect large regions at a time, in any part of the world.



Intermap Provides Solutions

Satellite Radar imagery has its place in the assemblage of geospatial data. Intermap will make sure you have the right data to address your need.



Weather Independence

Radar frequencies penetrate cloud coverage which can block Optical Sensors. Additionally, being an active sensor, Satellite Radar does not rely on light from the sun.

SAR Technology

The term Radar covers a wide range of frequencies, each with their own advantages and disadvantages. Intermap can help you select a data set and tools to best suit your application. Typically frequencies are chosen in the X-, L-, and C-Bands. As frequency increases, resolution increases, and penetration through objects decreases.

Additionally, polarimetry can provide additional dimensions to data. Different targets interact differently with the polarization of signals, and thus this can be used to assist in classification and visualization of data.

Several radar frequency satellites are continuously orbiting the earth collecting data.

Complete Data Coverage

In many instances, data is needed where airborne platforms can not be used. Often, satellite imagery has cloud obstructions, or temporal restrictions which prevent it's usefulness. Satellite radar data collection will not suffer from these restrictions.

In a national mapping program, collection of data at border areas created obstacles when airspace over neighboring countries was restricted. Being in the "cloud belt", satellite optical imagery was not available without an excess of obstruction by clouds. Intermap was able to source satellite based SAR

INTERMIP

Answers Now[™]

Visit www.intermap.com or call +1 (303) 708-0955 for more information.

Intermap Technologies® is an industry leader serving a diverse geospatial marketplace. We provide highly accurate geospatial information to help commercial enterprises and government agencies make better location-based decisions.

Copyright 2018. Intermap Technologies®. All Rights Reserved.

INTERMAP.COM

data to fill these areas and provide a complete data set to the customer. Through standardized processes, and links to a global foundation data set, Intermap creates consistent products around the world.



Airborne SAR with inaccessible regions filled with Satellite SAR