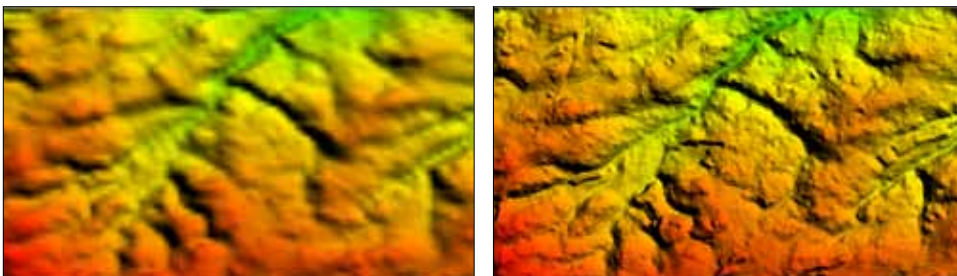


Intermap Technologies' satellite data collection services are ideal if you need accurate and current elevation data, especially for coverage over large areas, anywhere in the world. Our satellite-generated mapping products provide accurate digital elevation models (DEMs), 2.5m-resolution images and supplemental layers, and are best suited for mapping projects with scales of 1:50K or less.

Because our mapping products are sourced from satellites using Intermap's proprietary radargrammetry technology, they offer worldwide coverage without the restrictions of international boundaries or weather conditions. When supplemented with our higher-resolution IFSAR-generated and LiDAR / optical data sources, we can provide you with an integrated 3D mapping solution that spans the full range of end-user applications.

BENEFITS OF INTERMAP'S SATELLITE-GENERATED MAPPING PRODUCTS

- Worldwide data availability: areas of interest are quickly captured and processed as needed for your mapping project
- Boundary-free acquisition: the technology is not limited by international border restrictions or "no-fly" zones
- All-weather acquisition: data can be collected for your mapping project even when the region is covered with clouds (collected from commercial radar satellites) or at night
- Wide-area data coverage: a single stereo pair of radar images typically provides coverage of 1,500 km² (approximately the size of the Hawaiian island of Oahu)
- Up-to-date data: radar imagery is collected "on-demand"; for comparison purposes, SRTM data was collected in 2000

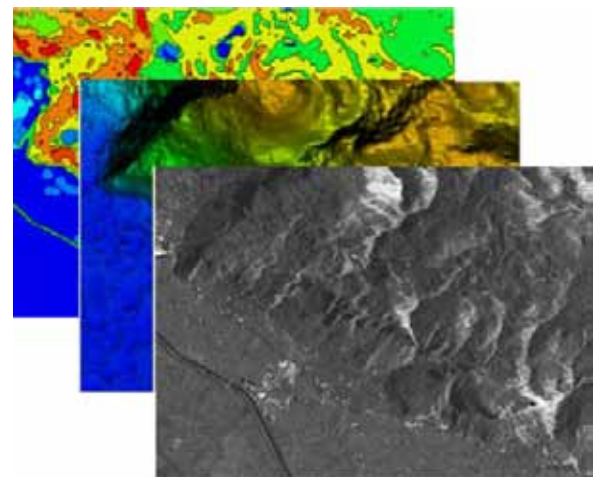


Intermap's satellite-generated digital surface model (DSM), pictured on the right, provides much improved spatial resolution compared to the SRTM DSM on the left.

IDEAL FOR A WIDE RANGE OF GEOSPATIAL APPLICATIONS

With superior spatial resolution and accuracy, up-to-date elevation data, and rapid delivery, our satellite-generated mapping products are cost-effective and enable many geospatial applications, including:

- Base mapping for spatial data infrastructure at a scale of 1:50K or less
- Image orthorectification for satellite optical imagery
- Flight simulation for defense and civil flight training / planning
- Image analysis for defense and security
- Watershed analysis for water management programs
- Surface analysis for oil and gas exploration



Intermap satellite-generated products: orthorectified radar image, digital surface model, and DEM characterization mask – the reference layers for geospatial applications.

Our satellite-generated mapping products include:

- **Digital surface model (DSM):** a topographic model of the earth’s surface that includes buildings, vegetation, roads, and natural terrain features as perceived by the satellite. It is the DSM that provides the elevation data necessary for accurate geo-referencing of all subsequent layers.
- **Orthorectified radar image (ORI):** the 2.5m ORI is created from the radar satellite images, using the DSM to correct for the inherent pixel positional errors due to elevation. Over large areas, the satellite-generated ORI is ideal if you need topographic feature extraction at a 1:100K map scale.
- **DEM characterization mask (DEM C-mask):** provides a characterization for each post in the elevation data. The characterization is based on land cover, slope, and radar traits, which provide a confidence level for every elevation posting.

Enabling mapping scales of 1:50K, 1:100K, or even coarser scales, Intermap’s satellite data collection services are available in two different levels to meet your specific project needs:

ACQUISITION ACCURACY	ORI		DSM		
	Pixel size (m)	Planimetric RMSE (m)	Posting (m)	Slopes < 20% Vertical RMSE (m)	Slopes > 20% Vertical RMSE (m)
Standard Satellite	2.5	5	30	5	10
Enhanced Satellite	2.5	5	20	4	8

Intermap’s standard satellite mapping products are produced from a single stereo pair of satellite images. The enhanced satellite mapping products combine two or more stereo pairs to provide improved performance in resolution and accuracy as well as a reduction in areas of missing information (voids).

3D MAPPING BUNDLES

We offer 3D mapping bundles that allow you to select the most appropriate solution that aligns with your internal resources and workflow:

- **3D Data Bundle:** is ideal if your organization has in-house processing capabilities or you simply require accurate DSM data.
- **3D Foundation Data Bundle:** provides a seamless foundation layer for applications such as water management, forest management, and infrastructure projects. The 3D Foundation Data Bundle provides an integrated solution that includes the DSM, ORI, contours, and our DEM characterization mask.
- **3D Topo Bundle:** adds thematic layers and other customer-specific layers to the 3D Foundation Data Bundle to provide a comprehensive mapping solution. Recognizing that your organization has specific requirements for your topographic mapping programs, we tailor the 3D Topo Bundle to meet your needs.

LEARN MORE

Let us know how we can put our expertise to work for you. For more information about how you can benefit from Intermap’s satellite data collection services, please contact your Intermap representative or visit www.intermap.com.



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