

Intermap Technologies, Inc.® offers custom spaceborne radar data collection services and 3D mapping products to help you create innovative geospatial solutions for numerous commercial, government, and defense applications. Obtaining the very best foundation geospatial data is not always easy when considering the challenges faced such as excessive cloud cover and remote accessibility for your area of interest, schedule, accuracy, and homogeneity of data.

Intermap answers this challenge by offering COSMO-SkyMed acquisition services. The result is quality edited digital elevation products and orthorectified radar imagery (ORI) that can be used for a full-range of end-user applications.

BENEFITS OF THE COSMO-SKYMED SERVICE

Intermap's primary editing facility and world-class production workflow allow us to edit COSMO-SkyMed's data meeting your resolution, accuracy, and geospatial requirements. COSMO-SkyMed is an earth observation satellite system equipped with high-resolution synthetic aperture radar (SAR) x-band antenna sensors that can operate under any weather or visibility conditions.

Additional key benefits of this service include:

- Day and night collection via own source of illumination
- Cloud, smoke, and haze penetration
- Historical image data archive from 2007
- Short revisit time (12 hours; constellation) for change detection application
- World class product flow-through to generate quality edited data and imagery products
- Cost-effective solution over large or remote geographic regions

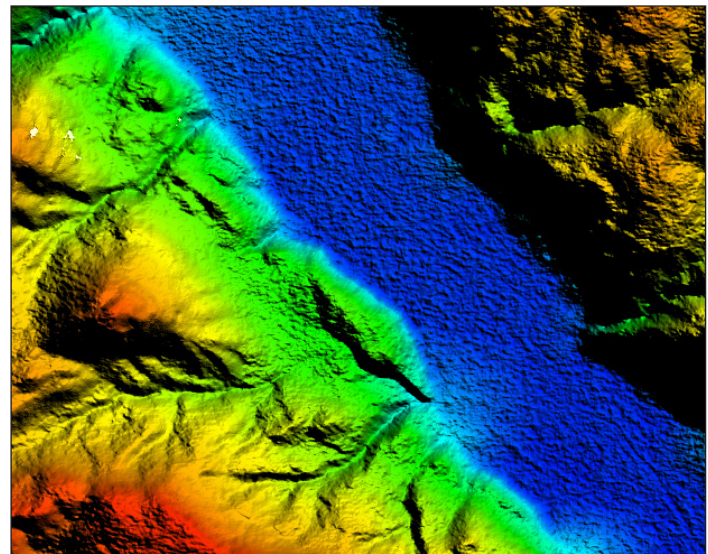
RESULTING PRODUCT

After acquisition[^] and processing, Intermap is able to offer a Satellite RADAR Stereo digital elevation model (DEM) and can further provide edited digital surface and terrain models for your specific application needs. The enhanced digital surface model is a 10-meter posted offering derived using radargrammetry of the SAR imagery producing a DEM with 5-meter RMSE vertical accuracy. The final Satellite Radar Stereo SAR Image and DEM that are created meet the specifications as detailed below:

NAME	RESOLUTION	PLANIMETRIC ACCURACY
Satellite SAR Image	2.5 m	5 m RMSE

NAME	RESOLUTION		POSTING
	SLOPE < 20%	SLOPE > 20%	
Standard DSM	< 5 m	< 10 m	20 m
Enhanced DSM	< 4 m	8 m	10 m

- Applications that the COSMO-SkyMed service enables include:
- National defense monitoring and planning needs
 - Foundation for creating or updating regional/country topographic maps
 - Geologic Exploration
 - Risk Management data for floods and other natural disaster events
 - Forestry management
 - Precision farming, crop yield assessment, and other agricultural needs



Italian Alps: 10m posted DSM

ACQUISITION AND 3D DATA FUSION EXPERTISE

Our extensive mapping and acquisition experience can increase the success rate of your project. Features of Intermap's COSMO-SkyMed service includes:

- Project management: Our team ensures transparency throughout the program lifecycle.
- Boundary-free, all-weather acquisition: Our COSMO-SkyMed service can provide maps anywhere in the world^B day or night, regardless of weather conditions or cloud cover. This guarantees penetration of clouds, haze, smoke, and light rain as well as nighttime operation to enable 24/7 data collection
- Quality service: Intermap's ISO-certified editing and production processes ensure consistent-quality products.
- Production environment: Our high-volume and scalable production facilities create and edit large quantities of mapping products.
- Flexible delivery options: We offer flexible delivery options designed to match your organization's internal workflow and resources.
- Data fusion: Intermap's fusion processes are ideal for data derived from various sensing technologies, including COSMO-SkyMed, resulting in seamless, fully integrated mapping solutions. The wide-area coverage of Intermap's fused mapping products enables more accurate foundation data in key areas such as cities, utility corridors, and waterways. As a value-added service, we can utilize our 3D processes and integrate and align multiple elevation data sources supplied by you and/or Intermap. This allows you to optimize your project and budget by using the highest resolution elevation data only where it's needed.

LEARN MORE

For more information about how you can benefit from Intermap's COSMO-SkyMed services, please contact your Intermap representative or visit www.intermap.com.

^A Minimum order size applies.

^B There may be additional changes or restrictions.

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