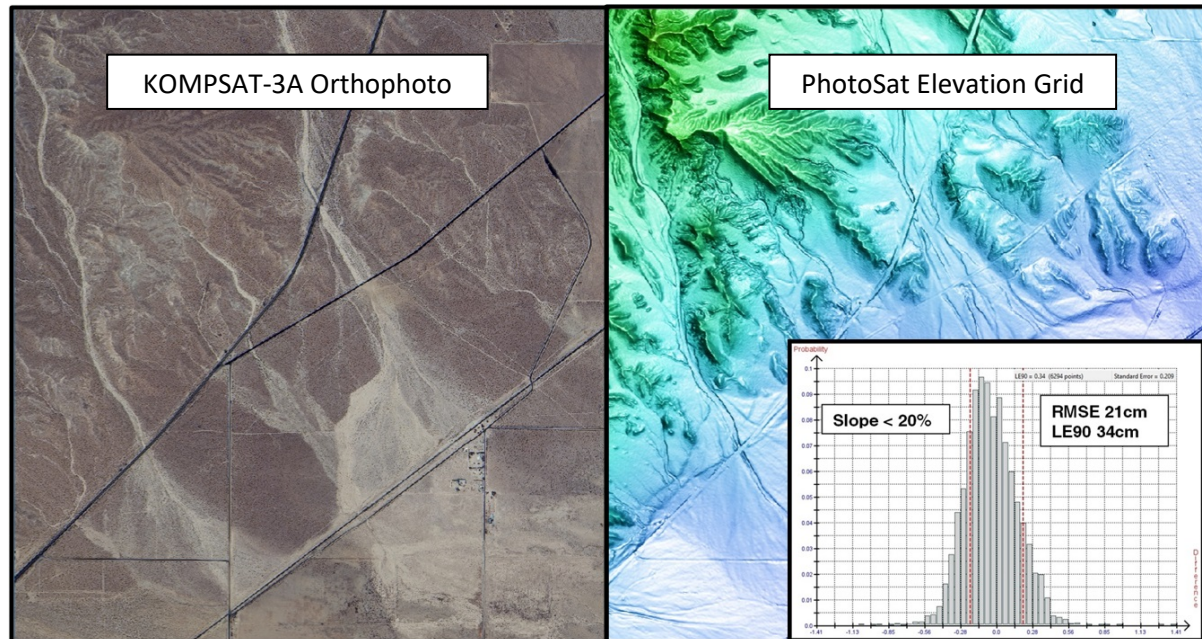


KOMPSAT-3A News Release, PhotoSat, SIIS
October 24, 2016



KOMPSAT-3A 40cm resolution orthophoto on the left. PhotoSat 1m elevation grid showing the histogram of the elevation differences to a highly accurate LiDAR survey on the right.

PhotoSat verifies the accuracy of survey data from the new KOMPSAT-3A satellite to 21cm in elevation

Engineers to benefit from high quality satellite survey data

PhotoSat is pleased to announce that the survey data processed from the new 40 centimeter resolution satellite, KOMPSAT-3A, has been verified as accurate to within 21 centimeters in elevation. The stereo KOMPSAT-3A data was provide to PhotoSat by SI Imaging Services (SIIS). SIIS is in charge of commercial marketing of KOMPSAT satellite series that Korean aerospace research institute (KARI) has developed and operates.

Direct comparison to a highly accurate LiDAR elevation grid

For the study, PhotoSat produced a 1m grid of elevations using its proprietary geophysical processing technology with stereo satellite images taken by KOMPSAT-3A. The resulting elevations were then compared to a 1m LiDAR elevation grid in Southeast California, accurate to approximately 5 cm in elevation and available on the [OpenTopography](#) website.

The size of the comparison area was 86 square kilometers. The resulting 21 cm RMSE elevation accuracy was measured at 6,294 survey check points. The full KOMPSAT-3A accuracy study is available on the [PhotoSat website](#) .



KOMPSAT 3A satellite image of the Mir diamond mine in Eastern Siberia

Stereo KOMPSAT-3A available throughout the world

PhotoSat's highly accurate survey grids have been used for years by oil and gas and mining engineers as a cost-effective alternative to ground GPS and airborne LiDAR surveying. The stereo satellite photos from KOMPSAT-3A will enable PhotoSat to deliver engineering quality survey data everywhere in the world.

Most accurate KOMPSAT satellite to date

"The KOMPSAT-3A satellite data is the highest quality KOMPSAT satellite photo data that PhotoSat has processed," said Gerry Mitchell, President of PhotoSat. "In this test, an elevation grid extracted from stereo KOMPSAT-3A satellite photos matches a highly accurate LiDAR elevation grid to better than 21 cm in elevation. This result takes satellite elevation surveying into the engineering design and construction markets and directly competes with LiDAR and high resolution air photo surveying for applications like mine tailings monitoring."

"We truly appreciate the astonishing work by PhotoSat and pleased to see the good result of elevation grid derived from KOMPSAT-3A satellite data." said Moongyu Kim, President & CEO of SIIS. "We are happy to have worked together with PhotoSat, which is very capable company in elevation extraction from satellite imagery. They showed us that KOMPSAT-3A data are competitive with conventional methods such as aerial photo mapping, and can be used satisfactorily in the engineering design, mapping and construction applications and other industries."

About PhotoSat

PhotoSat has invented a new technology that generates the world's most accurate satellite surveying. This engineering quality survey data shortens timelines and eliminates surveying delays in all phases of resource and engineering projects. PhotoSat has delivered over 650 highly accurate satellite surveying projects worldwide. We have published numerous PhotoSat surveying accuracy studies which are available on our website. For more information please visit www.photosat.ca.

About SIIS

SI Imaging Services (SIIS) is the exclusive worldwide marketing and sales representative of KOMPSAT series, KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A and KOMPSAT-5. SIIS contributes Remote Sensing and Earth Observation industries societies by providing very high resolution optical and SAR images through over 80 sales partners worldwide. Customers from industries as well as government and international agencies are using KOMPSAT imagery for their missions and researches and achieve good results in several remote sensing applications such as mapping, agriculture, disaster management, and so on. SIIS started its business as a satellite image and service provider and extended its business to KOMPSAT operation. For more information please visit www.si-imaging.com.