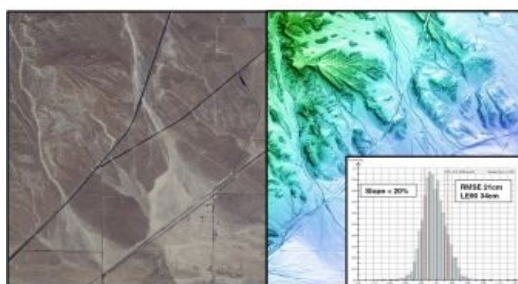


PhotoSat Verifies 21cm Elevation Accuracy of Survey Data from KOMPSAT-3A Satellite



PhotoSat has announced that the survey data processed from the new 40cm-resolution satellite, KOMPSAT-3A, has been verified as accurate to within 21 centimetres in elevation. The stereo KOMPSAT-3A data was provided to PhotoSat by SI Imaging Services (SIIS). SIIS is in charge of commercially marketing the KOMPSAT satellite series that the Korean aerospace research

institute (KARI) has developed and operates.

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 5cm in elevation and available on the [OpenTopography](#) website.

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

PhotoSat's highly accurate satellite 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 topographic survey data everywhere in the world.

Accurate

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 21cm 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.

SIIS truly appreciates the astonishing work by PhotoSat and is pleased to see the good result of elevation grid derived from KOMPSAT-3A satellite data, said Moongyu Kim, president and CEO of the Korean company. SIIS is happy to have worked together with PhotoSat, which is a very capable company in elevation extraction from satellite imagery. They showed 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, he added.