

## **Merging of Elevations from SAR Interferometry, Satellite Altimetry, GPS and Laser Altimetry in Greenland**

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### **Abstract**

**The merging of elevations data from different sources in order to produce a consistent height model is a major challenge, especially in rugged areas like the coastal regions of Greenland. In the paper early results from the combination of SAR data from the ERS-1/2 tandem mission with photogrammetric, GPS and airborne laser ranging data are presented for local areas in East Greenland. It is hoped that SAR interferometry in the future will provide a significant improvement of the ice surface and rock digital elevation model of Greenland, currently produced from a mixture of satellite and airborne altimetry over the ice and surveying / photogrammetry in the ice-free regions.**

*Keywords: Surface elevations, merging of data.*