

## **FRINGE 96**

### **The potential of ERS tandem for global 100m topography by the year 2000**

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#### **Abstract**

The recent ERS tandem mission from ESA offers the potential to create large area DEMs over a variety of different land cover regions at unprecedented resolutions and accuracy. Studies at UCL reported elsewhere at this meeting indicate that accuracies which exceed the specification of the DMA DTED level 1 (3 arc-second grid-spacing and 25m Zrms) can be provided by the automated generation of DEMs from tandem pairs if surface wind conditions are not too severe and night-time data is available.

An analysis of the potential of ERS tandem will be made using data from ESRIN and presented at the workshop as well as a comparison with the recently announced SRTM mission particularly for areas northwards of 58N and 58S.

*Keywords:*