

*Accuracy assessment,
reporting and the future of
topographic mapping from
space*

SRTM workshop Panel

Panel Introductory talks

- **Jay Feuquay, USGS**
 - The role of USGS in GEOSS for data distribution, accuracy assessment and reporting of future topographic mapping from space
- **John LaBrecque, NASA**
 - NASA scientific requirements and plans for future topography missions
- **Paul Salamonowicz, NGA**
 - The role of future topographic mapping from space in the US NGA program
- **Marian Werner, DLR**
 - TANDEM-X - a public-private partnership for global 10m topography
- **Marc Bernard, SPOT Image**
 - The role of the private sector in future topographic mapping from space
- **Jan-Peter Muller, UCL**
 - Accuracy assessment, standards and reporting of current and future topographic missions from the perspective of CEOS and the ISPRS

Questions to address: Voids and Polar Regions

- How should we best deal with gaps in the edited SRTM DEMs for a research SRTM DEM ?
- What role can NASA ASTER DEMs and ICESat-GLAS play here?
- What role could ESA ERS-tandem play here?
- Any other public domain sources (TANDEM-X, ALOS)?
- What about private sector involvement (e.g. SPOT) for DEMs at 90m?
- What do we do about the regions above 60°N and below 56°S?

Questions to address: Distribution

- What is the best method for delivering SRTM amplitude images and incidence masks?

Questions to address: Error reporting and standards

- Should a mechanism be set-up to enable an online moderated recording of "Known issues" with SRTM and if so, how could this be supported?
- How do we set standards for reporting SRTM accuracy?
- Should such standards be mandatory or voluntary?
- How can such standards be policed or should they consist of recommendations on "best practice" (as currently advocated by CEOS)?

Questions to address: Resolution

- How should we define "real" resolution for a DEM?
- What is the "real" resolution of 1" and 3" SRTM DEMs?
- What is the maximum real resolution feasible with SPOT5 and ALOS in future?

Questions to address: Future Requirements

- What are the scientific requirements for higher resolution DEMs with greater accuracy?
- Should higher resolution DEMs (than the publicly available 3") be available in the public domain?
 - or do national security and private sector needs exclude this in the foreseeable future?