1. “Evaluation of ASTER GDEM2 in Comparison with GDEM1, SRTM DEM and Topographic-Map-Derived DEM Using Inundation Area Analysis and RTK-dGPS Data”
   1. ASTER GDEM2, GDEM1, SRTM DEM, Topo-DEM
   2. Vertical Accuracy of each DEM is evaluated
      1. RTK rGPS
   3. Advanced Spaceborne Thermal Emission radiometer-Global Digital Elevation Model v2
      1. ASTER GDEM2
      2. Free of charge DEM
      3. GDEM1 is previous generation, and this paper compares the two
      4. Inundation area analysis
      5. 30m ground resolution
      6. 17m elevation accuracy @ 90% confidence (3m more accurate than v1)
      7. Digital Surface Model (DSM) – due to inclusion of canopies, and man-made features
   4. SRTMv4
      1. 90x90m ground resulation
      2. 16m elevation accuracy @ 90% Confidence
      3. Digital Surface Model (DSM) – due to inclusion of canopies, and man-made features
   5. Location
      1. Karian dam in the ciujung watershed, Banten Province, Indonesia
   6. Topo-DEM
      1. Derived from aerial photos (1993/1994)
      2. Grid size set to 12.5m
      3. High resolution aerial photos, and taken to be the most accurate of all DEM datasets
      4. Determined to be Digital Terrain Model (DTM)
   7. Uniformity
      1. “shifting” method
      2. RMSE analysis
   8. Accuracy Analysis
      1. RTK-dGPS data using procedure used in study
      2. Two handheld units were used and driven on motorbikes