Suggested topics: Remote Sensing Applications / Coastal Zone

Title:

Investigating the accuracy of Aerial Triangulation on the Baeksajang beach, west coast of Korea

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Prefer oral presentation

Abstract:

In this presentation, it was analyzed that the accuracy of aerial triangulation which was conducted for the long-term shoreline changes on the Baeksajang beach, west coast of Korea. For this purpose, field works were done for the acquisition of GCPs (Ground Control Points) and check points using VRS-GPS surveying. Since photo controls such as GCPs and tie points are distributed dominantly on the land side due to the presence of sea water in coastal environments, aerial triangulation gives unreliable results. To resolve this problem, we performed two-step triangulation associated with elevation-adjusted GCPs. There exists elevation difference between photogrammetric based DEM and check points. Elevation adjustment of GCPs was conducted by reducing distribution of elevation difference.