

Abstract

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Use of Spatial Reference Object Model to Enhance Projection and Datum Transformations

Track: System Implementation for GIS

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One can use the Spatial Reference Object Model to enhance Projection and Datum Transformations in ArcGIS to better combine information from existing maps with GPS-readings, scanned maps or satellite-images. Integration requires a correct matching of geographic locations. Maps from different sources, types and years lack often the parameters to convert them accurately. Parameters are sometimes incomplete, for projection or datum transformation. Author shows solutions that were developed on the demand of GIS users, from different fields: map-production, education and research. Ground-control input and in certain cases a proper geoid-height model is assumed.

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