

Survey Datums and Projections for Geoscientists

1 Day Workshop



GeoSolve Pty Ltd

Presented by

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Flat Maps for a Round Earth

The world is round and our maps are flat. This has been the fundamental dilemma for map makers since cartography was started. The purpose of the map will determine the type of projection to use. An index map for a report has different requirements than a map which is used to allocate resources.

This course will provide attendees with the tools to better understand the systems that are currently in use. The course focuses on Australian circumstances but the principles apply world wide.

This is not a software training course nor is it meant to be a surveying workshop. It is focused on making exploration staff competent and comfortable using digital data.

The Instructor ?

Henk van Paridon is a consulting geophysicist with over 30 years experience in seismic surveys. He has worked for clients in the petroleum, coal and CSG industries. He has seen many companies struggle with coordinate problems, sometimes without knowing they have a problem. He has dealt with data sets from Australia, PNG, USA and other countries. Based in Brisbane with lots of local knowledge.

Who Should Come ?

The course is suitable for geologists, geophysicists, technical assistants, data managers and GIS staff in the exploration industry who prepare maps or use GIS data, or for anyone who wants to better understand the concepts.

The course concentrates on the physical aspects and avoids complicated equations. It concentrates on the issues that effect day to day work. Importantly, workshop attendees will come away feeling that they “get it”.

The course can be held in-house using your own data. Public courses will be conducted in Brisbane and elsewhere dependent on demand.

Course Outline

Projections Systems

Universal Transverse Mercator (UTM)

Australian Zones

Limits and Benefits of UTM

Australian Datums, GDA94, AGD66, AGD84

Other Australian Systems

Historical Data

Georeferencing

Georectification

Google Earth

Australian Height Datum (AHD)