

# Reference Frames in Practice.Manual

Graeme Blick (New Zealand)

## Key words:

### SUMMARY

Fundamental to any geodetic system is the spatial reference frame upon which it is based. Historically these were locally or regionally based, but as we have transitioned to the use of globally based satellite positioning systems our reference frames have become much more global in nature. A spatial reference frame allows a location to be unambiguously identified through a set of coordinates (usually latitude and longitude or northing and easting). The International Federation of Surveyors (FIG) Commission 5 on Positioning and Measurement is responsible for assisting practicing surveyors in FIG member associations to apply Positioning and Measurement technologies efficiently and effectively in their day-to-day survey activities. In response to requests for information on Reference Frames Commission 5 has run a series of seminars and brought together a series of fact sheets into a 'Reference Frames in Practice' manual to inform surveyors about some of the key issues they need to consider in developing reference frames. The manual addresses technical issues surrounding reference frames, presenting formulae when appropriate. It is arranged as a series of short fact sheets that can be easily added to and updated. The objective of the manual is to provide a brief introduction to the use of Reference Frames in Practice. It is intended for surveyors but does assume some knowledge of the topic. It lists references where additional information may be found. This presentation gives an overview of the Manual and topics covered.