



All shotpoint and satellite positions were shifted in post-processing from the A.P.L. Global Datum to the Australian National Datum. The transformation parameters were determined by comparing co-ordinates of known points on the A.N.D. with co-ordinates for the same point obtained by satellite fixes. This work was performed by the Smithsonian Astrophysical Observatory and the values obtained for the shift of the centre of the A.P.L. and A.N.D. are:-

X = - 89 meters
 Y = - 34 meters
 Z = + 86 meters

The aforementioned corrections were applied to all A.P.L. positions.

After the Datum Shift, co-ordinates based on the Australian Map Grid, Zone 55, and Australian National Spheroid were computed and used for final mapping and listing.

The projection has the following defining values:-

Spheroid Semi-Major Axis	:	6378160.00
Semi-Minor Axis	:	6356774.72
Latitude of Origin	:	0° South
Longitude of Origin	:	147° East
Central Scale Factor	:	.9996
False Easting	:	500,000
False Northing	:	10,000,000

Following is a description of the Geonav positioning system.