



# LADS Depth Sounding Accuracy

LADS accuracy of depth sounding is better than 0.3m (one standard deviation) over the depth range 2-30 metres.

This accuracy has been observed over established depth benchmark survey sites in Gulf St. Vincent, South Australia. See Fig. 1.

### Method of Depth Accuracy Evaluations

Accuracy over the extended range to 50 metres is currently being evaluated in trials over deeper benchmark sites at Thistle Island and Hardwicke Bay in Spencer Gulf, South Australia.

The accuracy of the LADS system and algorithms is evaluated over a series of 300 metre square depth benchmark areas in the range of 2 to 50 metres which have been independently surveyed using high density acoustic techniques.

### Comparison of Measured and Benchmark Depths

The acoustic depth soundings for each benchmark area were subsequently corrected to a defined survey datum.

The laser depth soundings taken at different observation times are calculated to the same survey datum using the tidal model corrections.

The residual errors between each laser sounding and the depth plane established by the three nearest enclosing acoustic soundings were computed and recorded against the nominal benchmark depths and the laser system scan angle.

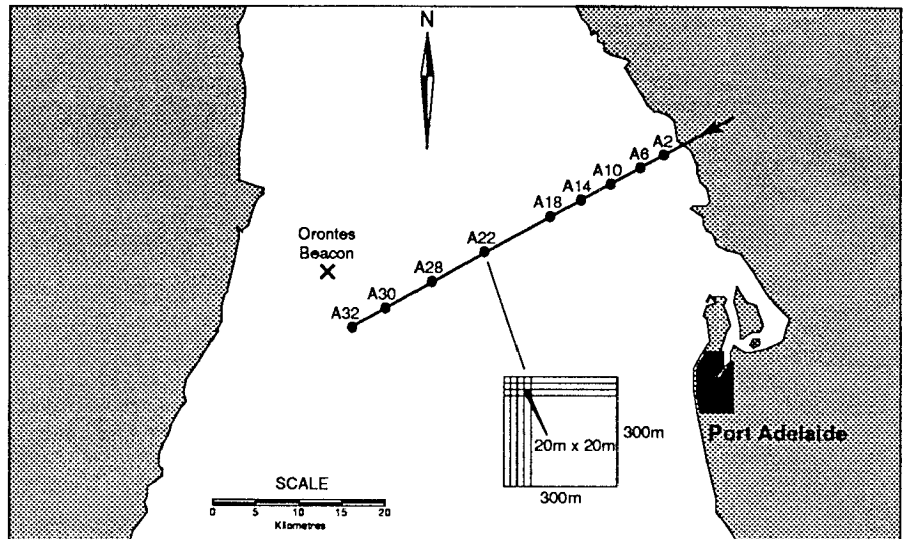


Fig. 1 - Benchmark survey sites: Gulf St. Vincent, South Australia.