



Australian Government

Geoscience Australia

Geodetic Connections to Tide Gauge at Groote

RESULTS OF OPTICAL LEVELLING

Bench Mark Name	BM 4553	BM 4552	NTS 652	BM 4551	BM 4550	NTS 904	BM 4567	-	CP 1	Wharf
Datum Ht (m) Jun 1993	22.737	22.990	22.980	22.145	17.951	-	-	6.261	6.192	4.865
Datum Ht (m) May 1995	22.737	22.9893	-	22.1442	17.9500	-	6.2790	-	6.1919	-
Datum Ht (m) Mar 1997	22.7376	22.9905	22.9802	22.1450	17.9511	-	6.2831	-	-	-
Datum Ht (m) Jun 1999	22.7376	22.9908	22.9805	22.1454	17.9513	6.3139	6.2783	-	-	-
Datum Ht (m) Nov 2001	22.7376	22.9900	22.9798	21.1451	17.9510	6.3116	6.2795	-	-	-
Datum Ht (m) Jul 2003	22.7376	22.9900	22.9797	21.1449	17.9510	-	6.2825	-	-	-
Datum Ht (m) May 2005	22.73762	-	22.97937	21.14428	17.95041	-	6.28213	-	-	
Datum Ht (m) 2007	22.73762	22.99046	22.97988	21.1449	17.9506	-	6.27632	-	-	-
Datum Ht (m) 2009	22.73762	22.99019	22.97985	21.1450	17.95096	-	6.27722	-	-	-
Comments	Coastal array BM. (Held for May 1995 survey)	Coastal array BM	Coastal array primary BM. (Held for Mar 1997 and June 1999 surveys)	Coastal array BM	Coastal array BM		Levelling pin on T.G.	Arrow on SE side of seaframe flange	Adjacent to seaframe	Datum for heights

Notes:

1. Heights are on Milner Bay Chart Datum