



Australian Government

Geoscience Australia

Geodetic Connections to Tide Gauge at Thevenard

RESULTS OF OPTICAL LEVELLING

Bench Mark Name	AHD Ht (m) Aug 1991	AHD Ht (m) Mar 1992	AHD Ht (m) Apr 1994	AHD Ht (m) May 1995	AHD Ht (m) Jun 1995	AHD Ht (m) Jun 1999	AHD Ht (m) Sep 2002	AHD Ht (m) Nov 2005	AHD Ht (m) Apr 2011 See #2	AHD Ht (m) Mar 2019 See #2	Comments
BM 1153	2.9350	-	2.9351	-	-	-	-	-			Datum for AHD heights.
BM 1476	4.4787	4.4787	4.4787	4.4787	4.4787	4.4787	4.4787	4.4787	4.4787	4.4787	Primary Coastal array BM.
BM 1478	4.7812	4.7813	4.7811	4.7814	4.7815	4.7828	4.7828	4.7827	4.7836	4.7834	Coastal array BM.
BM 1479	11.7187	11.7189	11.7186	11.7185	11.7182	11.7184	11.7186	11.7196	11.7192	11.7187	Coastal array BM.
BM 1487	15.9773	15.9780	15.9779	15.9779	15.9778	15.9780	15.9790	15.9818	15.9777	15.9790	Coastal array BM.
5633/1581	4.211	-	4.212	4.212	-	-	-	-	4.2130	4.2133	Seaframe Sensor Recovery Mark
5633/1591	4.4977	4.4979	4.4500	4.4995	4.5001	4.4995	4.4999	4.5011	4.5013	4.4999	Seaframe Sensor BM See #3
5633/1680	-	-	-	16.5410	16.5410	16.5409	16.5422	16.5452	16.5430	16.5441	Coastal array Pillar See #1
5633/1875	-	-	-	-	-	-	-	-	16.5023	-	THEV CORS BM

Note # 1 - Bench Mark 5633/1680 levelled to top of 5/8" threaded stub that is 14mm above the surface of the pillar plate. Ratcliff B, email 2002.

Note # 2 - Total Station Differential Levelling technique used

Note # 3 - Seaframe Sensor removed approx. Apr 2019



Australian Government

Geoscience Australia

Geodetic Connections to Tide Gauge at Thevenard

RESULTS OF OPTICAL LEVELLING

Bench Mark Name	AHD Ht (m) Oct 2020 See #2	AHD Ht (m) Mar 2022 See #2, #6	AHD Ht (m) May 2024 See #2							Comments
BM 1153	-	-	-							Datum for AHD heights.
BM 1476	4.4787	4.4787	4.4787							Primary Coastal array BM.
BM 1478	4.7835	4.7837	4.7843							Coastal array BM.
BM 1479	11.7187	11.7194	11.7196							Coastal array BM.
BM 1487	15.9795	15.9799	15.9808							Coastal array BM.
5633/1888	4.3090	4.3079	4.3085							Tide Gauge Recovery Mark See #4
5633/1889	5.4009	5.4030	5.4047							Seaframe Sensor BM SSBM-A (Acoustic) See #5
5633/1890	5.3353	5.3348	5.3358							SSBM-R (Radar) See #5
5633/1680	16.5448	16.5450	16.5460							Coastal array Pillar See #1
5633/1875	16.5068	16.5071	16.5087							THEV CORS BM

Note # 1 - Bench Mark 5633/1680 levelled to top of 5/8" threaded stub that is 14mm above the surface of the pillar plate. Ratcliff B, email 2002.

Note # 2 - Total Station Differential Levelling technique used

Note # 4 - 5633/1888 replaced 5633/1581 as the Tide Gauge Recovery Mark in October 2020

Note # 5 - Tide Gauges installed October 2020

Note # 6 - Tide Gauges levelled July 2022 due to instrument issues in March 2022. Additional levelling completed in July 2022 to prove no deep benchmarks had moved between March & July 2022

GEOSCIENCE AUSTRALIA

Cnr Jerrabomberra Ave & Hindmarsh Dve
GPO Box 378, SYMONSTON, ACT, 2609 Australia
Phone: 61 2 6249 9111
Web Site <http://www.ga.gov.au>