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Geodetic Connections to Tide Gauge at Cocos
RESULTS OF OPTICAL LEVELLING

Bench Mark Name	CSKI 3	CSKI 4	CSKI 8	0000C 1992	0000B 1992	PSM 92	0000A 1992	R 379	PSM 101	0000E 1992	0000D 1992	CSIRO Staff stop	Aquatrack (Old)	Aquatrack (New)
MSL Ht (m) Aug 1992 ¹	1.0969	1.1204	1.74	1.85	1.8466	1.4201	0.8519	1.1252	1.6196	1.744	2.1118	1.1122	2.7816	-
MSL Ht (m) Feb 1994 ¹	1.0956	1.1191	1.7396	1.8501	1.8474	1.4184	0.8484	1.1087	1.6183	1.744	2.1118	1.1108	2.7801	2.7778
MSL Ht (m) Mar 1995 ¹	1.0951	1.1186	1.6917	1.8487	1.8479	1.4197	0.8462	1.1082	1.6041	1.744	2.112	-	-	2.7791 ³
MSL Ht (m) 1998 ⁴	-	-	-	-	-	-	-	-	1.6041	-	-	-	-	2.7721
MSL Ht (m) Aug 2001 ⁴	1.0792	-	1.6823	-	-	-	-	-	1.6041	-	-	-	-	2.7425
MSL Ht (m) June 2004	1.0641	-	-	1.8462	1.8478	-	-	-	1.5947	1.744	2.1059	-	-	2.7279
MSL Ht (m) Sept 2007	-	-	-	1.845	1.8485	-	-	-	1.5937	1.744	2.1045	-	-	2.7235
Comments	CSIRO Hobart	CSIRO Hobart	CSIRO Hobart						Common point for comparison with 1998 & 2001 obs ⁵	Held across all epochs ²				Seaframe sensor bench mark



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Notes:

1. Levelling performed by NOAA/National Ocean Service using Zeiss Ni2 level and Nedo (full cm) staff.
2. Value for 0000E 1992 obtained from reduction of 1995 data and held fixed for reduction of earlier epochs.
3. Height of sensor BM above mean sea level calculated by NTF for observation period 1/9/92 to 31/5/98.
4. Levelling by AUSLIG (2nd order or better)
5. 0000E 1992 was not observed in 1998 and 2001