

Semidiurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

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Place	Latitude		Longitude		Time Difference		MHWS	MHWN	MLWN	MLWS	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Gold Coast Seaway	27 57	153 25			Standard Port		1.53	1.24	0.51	0.22	0.88	1.00	0.00	2.03	PSM 702548	6.688
North Coast New South Wales -																
Ballina (Richmond River) *	28 53	153 35			+0 05	+0 05	1.4	1.1	0.5	0.2	0.87			1.9		
Brunswick Heads *	28 32	153 33			+0 06	+0 06	1.5	1.2	0.5	0.2	0.92			2.0		
Kingscliff *	28 16	153 35			+0 10	+0 10	1.4	1.1	0.4	0.2	0.76			1.9		
Tweed River Breakwater	28 10	153 33			-0 04	+0 00	1.57	1.31	0.67	0.41	1.03	0.89	0.21	2.01		
Gold Coast Beaches -																
Snapper Rocks (Coolangatta)	28 10	153 33			-0 26	-0 15	1.68	1.36	0.57	0.24	1.09	1.10	0.00	2.23	PSM 42172	3.849
Ocean Beaches	Jumpinpin Bar to Snapper Rocks tides occur 20 mins earlier than Gold Coast Seaway.															
Broadwater & Nerang River-																
Isle of Capri **	28 01	153 26			+0 41	+0 56	1.29	1.03	0.38	0.16	0.72			1.73	PSM 203454	2.230
Gold Coast Bridge	27 59	153 25			+0 10	+0 20	1.62	1.33	0.63	0.34	0.95	0.97	+0.13	2.10	PSM 14620	3.389
Nerang Township **	27 59	153 20			+1 43	+2 25	1.21	0.96	0.27	0.12	0.64			1.63	PSM 212330	3.880
Grand Hotel Jetty	27 57	153 25			+0 16	+0 31	1.50	1.21	0.50	0.22	0.92	0.98	0.00	1.99	PSM 6863	2.563
Paradise Point	27 53	153 24			+1 23	+1 23	1.38	1.12	0.46	0.20	0.80	0.90	0.00	1.83	PSM 189792	1.764
Runaway Bay	27 55	153 24			+0 31	+0 52	1.32	1.06	0.44	0.19	0.74	0.86	0.00	1.74	PSM 110667	2.058
Coomera Township (Oxenford) **	27 53	153 18			+1 55	+2 29	1.36	1.10	0.29	0.13	0.74			1.81	PSM 198865	2.968
Coomera River (Saltwater Creek) **	27 52	153 20			+1 45	+2 21	1.29	1.03	0.29	0.12	0.70			1.73	PSM 137376	3.049
Sanctuary Cove **	27 51	153 22			+1 39	+1 39	1.30	1.04	0.32	0.14	0.71			1.74	PSM 139940	4.078
Couran Cove	27 49	153 25			+1 19	+1 20	1.45	1.17	0.47	0.19	0.88	0.96	-0.02	1.92	PSM 41943	1.720
The Bedroom	27 46	153 26			+1 14	+1 06	1.45	1.17	0.47	0.19	0.88	0.96	-0.02	1.92		

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					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Brisbane Bar	27 22	153 10	Standard Port		2.22	1.84	0.81	0.42	1.32	1.00	0.00	2.78	PSM 88814	4.622		
Pimpama River (Kerkin Rd Weir) **	27 48	153 20	+0 57	+1 27	1.40	1.10	0.32	0.17	0.78					1.83		
Albert River -																
Junction Logan River **	27 42	153 14	+1 22	+2 14	2.10	1.72	0.57	0.36	1.17				2.65	PSM 71428	10.958	
Pacific Highway Bridge **	27 44	153 13	+1 37	+2 42	1.96	1.58	0.46	0.28	0.99				2.51	PSM 13663	4.090	
Wolffdene **	27 47	153 11	+2 12		1.36	1.04							1.83			
Logan River -																
Rocky Point (Mouth Logan River)	27 42	153 21	+0 40	+0 55	2.14	1.77	0.79	0.42	1.26	0.96	+0.01	2.68	PSM 87560	5.328		
Junction Albert River **	27 42	153 14	+1 22	+2 14	2.10	1.72	0.57	0.36	1.17				2.65	PSM 71428	10.958	
Slacks Creek (Mouth) **	27 40	153 10	+2 13	+3 05	1.83	1.50	0.42	0.24	1.01				2.31	PSM 71422	8.963	
Waterford **	27 42	153 09	+2 39	+3 34	1.62	1.31	0.28	0.13	0.86				2.07	PSM 113639	11.612	
Brisbane River -																
Boat Passage	27 24	153 10	+0 00	+0 00	2.22	1.84	0.81	0.42	1.32	1.00	0.00	2.78				
Pinkenba	27 26	153 07	+0 11	+0 16	2.31	1.91	0.84	0.44	1.32	1.04	0.00	2.90	PSM 7632	2.893		
Cairncross Dock	27 27	153 05	+0 18	+0 24	2.36	1.95	0.86	0.45	1.39	1.06	0.00	2.95	PSM 21769	4.565		
New Farm	27 28	153 03	+0 25	+0 25	2.36	1.95	0.86	0.45	1.39	1.06	0.00	2.95	PSM 21769	4.565		
Port Office (Edward St Ferry)	27 28	153 02	+0 35	+0 36	2.29	1.89	0.83	0.44	1.37	1.03	0.00	2.87	PSM 130588	6.518		
Tennyson (Long Pocket)	27 32	153 00	+1 00	+1 20	2.42	2.00	0.88	0.46	1.43	1.09	0.00	3.03				
Indooroopilly	27 31	152 59	+1 20	+1 45	2.40	1.99	0.87	0.46	1.42	1.08	0.00	3.01				
Seventeen Mile Rocks **	27 33	152 58	+1 20	+1 20	2.26	1.92	0.72	0.37	1.34				2.77			
Wacol (Wolston Creek) **	27 34	152 54	+1 55	+1 55	2.23	1.89	0.60	0.32	1.25				2.74			
Goodna (Woogaroo Creek) **	27 36	152 54	+2 03	+2 10	2.21	1.87	0.59	0.31	1.21				2.70	PSM 30537	12.365	

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			HW	LW										
Tidal Datum Epoch 2010-2029			1	2	3	4	5	6	7	8	9	10		
			H M	H M	m	m	m	m	m		m	m		
Brisbane Bar continued														
Moggill Ferry **	27 36	152 51	+2 21	+2 33	2.36	2.01	0.59	0.31	1.29			2.88	PSM 54705	6.735
Kholo Creek **	27 32	152 51	+2 30	+2 50	2.17	1.83	0.38	0.19	1.10			2.68	PSM 32752	12.489
Bremer River														
Warrego Highway Bridge **	27 35	152 49	+2 30	+2 55	2.22	1.87	0.50	0.26	1.21			2.73	PSM 3833	16.908
Moreton Bay Area -														
Ocean Beaches	Cape Moreton to Snapper Rocks tides occur 1hr 30min earlier than Brisbane Bar.													
Woogoompah Island	27 47	153 24	+0 14	+0 02	1.51	1.25	0.54	0.27	0.87	0.69	-0.02	1.90		
Jacobs Well	27 47	153 22	+0 28	+0 18	1.63	1.33	0.53	0.23	0.91	0.78	-0.10	2.07	PSM 7132	4.591
Cabbage Tree Point	27 44	153 22	+0 04	+0 33	1.70	1.40	0.62	0.32	1.08	0.76	0.00	2.13	PSM 105592	2.820
Kalinga Bank	27 44	153 26	-0 34	-0 47	1.52	1.26	0.56	0.30	0.92	0.68	+0.01	1.90	PSM 50469	1.471
Oak Island	27 42	153 24	+0 15	-0 30	1.76	1.45	0.64	0.33	1.01	0.79	0.00	2.20		
Koureyabba	27 42	153 24	+0 30	+0 06	1.80	1.49	0.65	0.34	1.05	0.81	0.00	2.26	PSM 191690	2.448
Russell Island (Canaipa Point)	27 39	153 25	+0 31	+0 42	2.36	1.95	0.86	0.45	1.38	1.06	0.00	2.95	PSM 39927	22.576
Macleay Island (Southern Jetty)	27 38	153 22	+0 30	+0 42	2.31	1.90	0.78	0.37	1.30	1.08	-0.09	2.92	PSM 122212	12.835
Redland Bay	27 37	153 18	+0 30	+0 45	2.42	2.00	0.88	0.46	1.40	1.09	0.00	3.03	PSM 42645	3.485
Victoria Point	27 35	153 19	+0 14	+0 18	2.43	2.03	0.96	0.56	1.44	1.04	+0.12	3.02	PSM 39288	12.283
Macleay Island (Potts Point)	27 35	153 22	+0 15	+0 23	2.33	1.93	0.85	0.44	1.37	1.05	0.00	2.92		
Toondah Harbour (Cleveland)	27 32	153 17	+0 13	+0 16	2.27	1.87	0.82	0.43	1.34	1.02	0.00	2.84	PSM 105601	4.109
Cleveland Point	27 31	153 18	+0 13	+0 16	2.27	1.87	0.82	0.43	1.34	1.02	0.00	2.84	PSM 105601	4.109
Dunwich	27 30	153 24	+0 11	+0 16	2.20	1.82	0.80	0.42	1.27	0.99	0.00	2.76	PSM 744	22.280
Raby Bay (Canals Entrance)	27 30	153 17	+0 01	+0 01	2.33	1.93	0.85	0.44	1.40	1.05	0.00	2.92	PSM 62227	2.534

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Tidal Datum Epoch 2010-2029																	
					1	2	3	4	5	6	7	8	9	10			
					H M	H M	m	m	m	m	m		m	m			
Brisbane Bar continued																	
Tingalpa Creek (Mouth)	27	28	153	13	+0 02	+0 06	2.40	1.99	0.87	0.46		1.08	0.00	3.01	PSM 61242	7.858	
Wellington Point	27	28	153	14	-0 06	-0 03	2.31	1.91	0.84	0.44	1.31	1.04	0.00	2.90	PSM 61259	3.840	
Lota	27	28	153	11	+0 02	+0 07	2.29	1.89	0.83	0.44	1.32	1.03	0.00	2.87	PSM 22993	3.570	
Huybers Light	27	27	153	15	+0 12	+0 03	2.22	1.84	0.81	0.42	1.31	1.00	0.00	2.78			
Manly	27	27	153	11	+0 02	+0 07	2.29	1.89	0.83	0.44	1.32	1.03	0.00	2.87	PSM 22993	3.570	
Hope Banks	27	26	153	18	-0 06	-0 06	2.26	1.87	0.82	0.43	1.33	1.02	0.00	2.82	PSM 210225	5.800	
D'Arcy Light	27	26	153	12	+0 02	+0 07	2.22	1.84	0.81	0.42	1.31	1.00	0.00	2.78			
Rous Light	27	24	153	20	+0 09	+0 06	2.22	1.84	0.81	0.42	1.26	1.00	0.00	2.78			
Amity Point	27	24	153	26	-0 40	-0 54	1.82	1.51	0.66	0.35	1.14	0.82	0.00	2.28	PSM 85797	3.684	
Saint Helena (South)	27	24	153	13	+0 00	+0 00	2.33	1.93	0.85	0.44	1.37	1.05	0.00	2.92			
Nudgee Beach	27	21	153	06	-0 03	-0 03	2.19	1.81	0.79	0.42	1.30	0.98	0.00	2.74			
Cabbage Tree Creek (Mouth)	27	20	153	06	+0 01	-0 01	2.13	1.76	0.78	0.41	1.24	0.96	0.00	2.67	PSM 34799	3.032	
Shorncliffe and Sandgate	27	19	153	05	-0 06	-0 06	2.20	1.83	0.80	0.42	1.34	0.99	0.00	2.76	PSM 51060	22.660	
Woody Point	27	16	153	06	+0 00	+0 02	2.11	1.75	0.77	0.40	1.20	0.95	0.00	2.64	PSM 4726	3.328	
Measured Mile-Rear Recip. Lead	27	15	153	15	-0 25	-0 23	2.09	1.73	0.76	0.40	1.19	0.94	0.00	2.62			
Margate	27	15	153	07	+0 00	+0 02	2.11	1.75	0.77	0.40	1.20	0.95	0.00	2.64	PSM 4726	3.328	
Redcliffe	27	14	153	07	+0 00	+0 00	2.13	1.76	0.78	0.41	1.16	0.96	0.00	2.67			
East Channel	27	14	153	20	-0 22	-0 28	2.11	1.75	0.77	0.40	1.25	0.95	0.00	2.64	PSM 164923	6.480	
Scarborough Boat Harbour	27	12	153	06	-0 07	-0 07	2.11	1.75	0.77	0.40	1.26	0.95	0.00	2.64	PSM 158414	4.318	
Newport	27	12	153	05	-0 06	-0 06	2.17	1.80	0.79	0.41	1.20	0.98	0.00	2.72	PSM 195409	3.734	
Tangalooma	27	11	153	22	-0 23	-0 27	2.05	1.70	0.78	0.43	1.20	0.90	+0.05	2.56	PSM 164921	4.024	

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					H M	H M	m	m	m	m	m	m	m	m
Brisbane Bar continued														
Cockle Banks	27 07	153 08	-0 08	-0 08	2.09	1.73	0.76	0.40	1.22	0.94	0.00	2.62	PSM 193261	6.725
Beachmere (Caboolture River)	27 08	153 02	+0 06	+0 18	2.13	1.76	0.78	0.41	1.26	0.96	0.00	2.67	PSM 25095	5.416
Bulwer Wrecks	27 05	153 22	-0 25	-0 30	1.80	1.49	0.65	0.34	1.07	0.81	0.00	2.26		
North Pine River -														
Deepwater Bend	27 18	153 02	+0 13	+0 41	2.22	1.84	0.83	0.45	1.33	0.98	+0.04	2.77		
Petrie	27 17	152 58	+0 24	+0 52	2.31	1.91	0.84	0.44	1.32	1.04	0.00	2.90	PSM 97249	5.545
Pumicestone Passage-Bribie														
Bribie Beacon (South Point)	27 06	153 09	-0 09	-0 13	1.95	1.62	0.73	0.40	1.14	0.86	+0.04	2.43		
Bongaree	27 05	153 09	+0 00	-0 15	1.91	1.58	0.69	0.36	1.11	0.86	0.00	2.39	PSM 42071	3.011
Woorim	27 05	153 12	-0 22	-0 34	1.76	1.45	0.64	0.33	0.98	0.79	0.00	2.20		
Toorbul	27 02	153 06	+0 30	+0 20	2.00	1.65	0.73	0.38	1.18	0.90	0.00	2.51		
Donnybrook	27 00	153 04	+1 00	+0 56	1.93	1.60	0.73	0.40	1.16	0.85	+0.04	2.41	PSM 90401	3.498
Hussey Creek (Mouth) **	26 56	153 04	+2 04	+2 56	1.39	1.08	0.42	0.27				1.83		
The Skids **	26 54	153 04	+1 48	+2 05	1.00	0.71	0.30	0.15	0.56			1.43	PSM 60521	2.006
Halls Creek (Mouth) 'The Farm' **	26 52	153 07	+0 47	+1 33	0.90	0.66			0.64			1.24	PSM 60364	1.614

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					H M	H M	m	m	m	m	m		m	m		
Mooloolaba	26 41	153 08	Standard Port		1.70	1.38	0.63	0.30	1.00	1.00	1.00	0.00	2.21	PSM 37055	5.719	
North West Channel Fairway South	27 02	153 16	+0 36	+0 24	1.79	1.45	0.66	0.32	1.05	1.05	1.05	0.00	2.33	PSM 164920	6.370	
North West Channel Fairway North	26 51	153 09	-0 01	-0 01	1.76	1.42	0.65	0.31	1.05	1.04	1.04	0.00	2.29	PSM 193271	6.467	
Caloundra Head **	26 48	153 09	+0 00	+0 00	1.68	1.34	0.61	0.30	0.99				2.21	PSM 3067	2.215	
Parrearra (Mooloolah River)	26 43	153 07	+0 23	+0 44	1.60	1.29	0.59	0.28		0.94	0.94	0.00	2.08	PSM 14109	3.639	
Mooloolaba Beach	26 41	153 06	+0 00	+0 00	1.70	1.38	0.63	0.30	1.01	1.00	1.00	0.00	2.21	PSM 37055	5.719	
Maroochydore Beach	26 40	153 06	+0 00	+0 00	1.70	1.38	0.63	0.30	1.01	1.00	1.00	0.00	2.21	PSM 37055	5.719	
Coolum	26 31	153 06	+0 00	+0 00	1.70	1.38	0.63	0.30	1.01	1.00	1.00	0.00	2.21	PSM 37055	5.719	
Maroochy River -																
Picnic Point **	26 39	153 05	+1 02	+1 52	0.98	0.71	0.29	0.14	0.56				1.41	PSM 37146	1.590	
David Low Bridge **	26 38	153 03	+1 35	+2 27	0.95	0.71	0.33	0.20	0.57				1.32	PSM 15585	5.030	
Dunethin Rock **	26 35	153 02	+2 09	+3 06	1.07	0.82	0.30	0.17	0.57				1.45	PSM 37140	2.744	
Junction North Maroochy River **	26 34	152 58	+2 18	+3 12	1.19	0.93	0.36	0.23	0.64				1.61	PSM 41257	7.179	
Noosa River -																
Noosa River Mouth	26 23	153 05	+0 06	+0 13	1.35	1.09	0.50	0.24	0.84	0.79	0.79	0.00	1.75	PSM 119503	2.900	
Munna Point **	26 24	153 05	+0 29	+0 58	1.08	0.88	0.40	0.19	0.64				1.41	PSM 9078	1.782	
Tewantin **	26 24	153 03	+0 58	+1 29	0.87	0.68	0.36	0.17	0.52				1.17	PSM 42575	3.885	

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					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Noosa Head	26 23	153 06	Standard Port		1.85	1.52	0.79	0.45	1.15	1.00	1.00	0.00	2.35	PSM 19728	3.781	
Noosa River -																
Noosa River Mouth	26 23	153 05	Refer to 'Noosa River Mouth' under standard port 'Mooloolaba'													
Munna Point	26 24	153 05	Refer to 'Munna Point' under standard port 'Mooloolaba'													
Tewantin	26 24	153 03	Refer to 'Tewantin' under standard port 'Mooloolaba'													
Noosa Beaches -																
Noosa Beach	26 23	153 05	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	1.00	0.00	2.35	PSM 19728	3.781	
Teewah Sands	26 16	153 04	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	1.00	0.00	2.35			
Cooloola	26 11	153 04	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	1.00	0.00	2.35			
Double Island Point	25 55	153 11	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	1.00	0.00	2.35			
Rainbow Beach	25 54	153 05	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	1.00	0.00	2.35			
Waddy Point (K'gari)	24 58	153 21	Standard Port		1.81	1.50	0.87	0.56	1.18	1.00	1.00	0.00	2.42	PSM 48494	3.165	
Urangan	25 18	152 55	Standard Port		3.54	2.84	1.43	0.73	2.14	1.00	1.00	0.00	4.33	PSM 11028	5.835	
Kingfisher Bay	25 24	153 06	+0 11	+0 18	3.79	3.04	1.53	0.78	2.31	1.07	1.07	0.00	4.64	PSM 130514	5.590	
Turkey Island	25 31	152 56	+0 43	+0 43	3.83	3.08	1.55	0.79	2.40	1.08	1.08	0.00	4.69	PSM 211729	4.158	

Semidiurnal Tidal Planes - 2026

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	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Bundaberg (Burnett Heads)	24 46	152 23	Standard Port		2.94	2.35	1.20	0.61	1.78	1.00	0.00	3.68	PSM 3853	6.061		
Great Sandy Strait -																
Tin Can Bay (Snapper Creek)	25 54	153 00	+0 44	-0 16	2.35	1.88	0.96	0.49	1.42	0.80	0.00	2.94	PSM 49322	2.973		
Elbow Point	25 48	153 01	+0 15	-0 03	2.19	1.75	0.90	0.46	1.34	0.74	+0.01	2.73	PSM 110774	3.450		
Snout Point	25 42	152 59	+0 55	+0 29	2.38	1.91	0.97	0.50	1.45	0.81	0.00	2.98				
Big Tuan	25 41	152 53	+0 55	+1 05	2.21	1.76	0.90	0.46	1.43	0.75	0.00	2.76	PSM 58832	3.084		
Boonooroo	25 39	152 54	+0 55	+1 05	2.21	1.76	0.90	0.46	1.43	0.75	0.00	2.76	PSM 58832	3.084		
Boonlye Point	25 34	152 56	+1 09	+0 57	3.20	2.56	1.31	0.67	1.95	1.09	0.00	4.01				
Ungowa Jetty	25 30	152 59	+0 51	+0 49	3.91	3.13	1.60	0.82	2.45	1.33	0.00	4.89				
Mary River -																
Bingham (River Heads) **	25 26	152 55	+1 13	+1 11	3.77	3.10	1.25	0.68	2.23			4.60				
Hervey Bay -																
Point Vernon	25 15	152 48	-0 10	-0 10	3.29	2.64	1.35	0.69	1.96	1.12	0.00	4.12				
Burrum Heads	25 11	152 37	+0 12	+0 30	3.12	2.48	1.24	0.60	1.84	1.08	-0.06	3.91	PSM 51102	7.533		
Woodgate (Theodolite Creek)	25 04	152 33	-0 15	-0 15	3.12	2.49	1.27	0.65	1.84	1.06	0.00	3.90				
Wathumba Creek (Fraser Island)	24 58	153 14	-0 12	+0 36	3.12	2.49	1.27	0.65	1.92	1.06	0.00	3.90				
Elliott River Entrance	24 55	152 30	-0 09	-0 09	3.02	2.40	1.19	0.57	1.79	1.05	-0.07	3.79	PSM 50438	14.394		
Burnett River (Town Reach)	24 52	152 21	+0 32	+0 57	3.23	2.59	1.32	0.68	1.89	1.10	0.00	4.04	PSM 10004	13.875		
Bargara	24 49	152 27	+0 00	+0 00	2.94	2.35	1.20	0.61	1.79	1.00	0.00	3.68	PSM 3853	6.061		
Kolan River (Booyan Bridge)	24 42	152 11	+0 23	+1 30	2.62	2.09	1.07	0.55	1.57	0.89	0.00	3.27				
Baffle Creek (Winfield) **	24 32	152 02	+1 05	+1 56	2.27	1.81			1.62			2.83	PSM 75197	3.383		
Lady Elliot Island	24 07	152 43	-0 24	-0 33	2.12	1.68	0.83	0.39	1.25	0.74	-0.06	2.66	PSM 72773	3.834		

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					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Gladstone	23 50	151 15	Standard Port		4.01	3.16	1.62	0.77	2.39	1.00	0.00	4.87	PSM 48996	5.711		
Seventeen Seventy	24 11	151 53	-0 35	-0 22	2.81	2.21	1.14	0.54	1.66	0.70	0.00	3.41	PSM 90971	5.457		
Pancake Creek	24 01	151 44	-0 35	-0 35	3.01	2.37	1.22	0.58	1.80	0.75	0.00	3.65				
Clews Point *	24 00	151 44	-0 45	-0 45	2.9	2.2	1.1	0.4	1.64			3.5				
Lady Musgrave Island *	23 55	152 23	-0 52	-0 52	2.2	1.7	0.9	0.4	1.30			2.9	PSM 72240	3.661		
Gatcombe Head	23 53	151 22	-0 16	-0 17	3.49	2.75	1.41	0.67	2.11	0.87	0.00	4.23	PSM 50434	5.318		
South Trees Wharf	23 51	151 19	-0 11	-0 10	3.85	3.03	1.56	0.74	2.26	0.96	0.00	4.67				
Fishermans Landing	23 47	151 11	+0 15	+0 12	4.25	3.35	1.72	0.81	2.47	1.06	0.00	5.16	PSM 59976	24.318		
Graham Creek	23 45	151 11	+0 18	+0 09	4.41	3.48	1.78	0.84	2.64	1.10	0.00	5.35	PSM 189409	5.232		
The Narrows (Boat Creek)	23 39	151 06	+0 31	+0 26	4.65	3.65	1.85	0.85	2.74	1.17	-0.05	5.64				
The Narrows (Ramsay Crossing)	23 38	151 05	+0 19	+0 22	5.15	4.07	2.13	1.06	3.07	1.26	+0.09	6.22	PSM 70858	11.417		
Sea Hill	23 30	150 59	-0 01	-0 07	4.53	3.57	1.83	0.87	2.69	1.13	0.00	5.50	PSM 110341	5.580		
Polmaise Reef *	23 34	151 39	-0 29	-0 29	3.0	2.3	1.1	0.4	1.71			3.7				
Heron Island	23 27	151 55	-0 33	-0 33	2.73	2.12	1.03	0.43	1.52	0.71	-0.12	3.33	PSM 61221	4.431		
Rockhampton **	23 23	150 31	+1 23	+2 31	5.25	4.21	1.66	0.96	2.92			6.47	PSM 207101	11.646		
Tryon Island *	23 15	151 46	-0 18	-0 18	2.9	2.2	1.1	0.4	1.63			3.6	PSM 72774	7.842		
Cape Manifold	22 41	150 50	+0 17	+0 29	4.41	3.48	1.78	0.84	2.58	1.10	0.00	5.35	PSM 50449	12.770		
Port Clinton *	22 32	150 45	+0 34	+0 34	4.3	3.3	1.6	0.5	2.44			5.2				
Gannet Cay *	21 59	152 28	-0 09	-0 09	2.1	1.6	0.8	0.4	1.23			2.8				
Port Alma	23 35	150 52	Standard Port		4.98	3.88	2.03	0.93	2.95	1.00	0.00	5.96	PSM 66821	6.724		
Inkerman Creek	23 35	150 49	-0 10	-0 10	5.25	4.09	2.13	0.98	3.13	1.05	0.00	6.28	PSM 212327	6.701		

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	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029																
					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Roslyn Bay	23 10	150 48	Standard Port		4.28	3.30	1.66	0.67	2.48	1.00	0.00	5.21	PSM 47784	6.640		
Great Keppel Island	23 11	150 56	-0 07	-0 07	4.21	3.25	1.63	0.66	2.43	0.98	0.00	5.13	PSM 172424	9.295		
Hay Point	21 16	149 18	Standard Port		5.86	4.54	2.31	0.99	3.43	1.00	0.00	7.18	PSM 38627	18.040		
Marquis Island *	22 20	150 27	-0 27	-0 27	6.5	5.0	2.5	1.0	3.73			7.5				
McEwen Islet *	22 09	149 36	+0 24	+0 24	7.4	5.6	2.6	0.8	4.13			9.1				
High Peak Island *	21 57	150 41	-0 45	-0 45	4.8	3.7	1.8	0.7	2.75			5.9				
Bell Cay *	21 49	151 15	-0 58	-0 58	3.6	2.7	1.3	0.4	2.00			4.3				
Middle Island (Percy Isles)	21 39	150 15	-0 27	-0 27	5.73	4.48	2.35	1.10	3.40	0.95	+0.16	6.98	PSM 172414	9.607		
Cullen Islet	21 25	149 29	-0 03	-0 03	6.15	4.77	2.42	1.04	3.57	1.05	0.00	7.54				
Penrith Island *	21 00	149 54	-0 07	-0 07	4.6	3.5	1.6	0.5	2.56			5.6				
Scawfell Island *	20 52	149 37	-0 05	-0 05	4.4	3.4	1.7	0.6	2.51			5.4				
Mackay Outer Harbour	21 06	149 14	Standard Port		5.35	4.12	2.01	0.79	3.07	1.00	0.00	6.62	PSM 10043	9.916		
Thirsty Sound	22 08	150 02	-0 26	-0 37	6.15	4.74	2.31	0.91	3.50	1.15	0.00	7.62				
Keswick Island	20 55	149 26	-0 03	+0 04	4.76	3.67	1.79	0.70	2.74	0.89	0.00	5.90				
Halliday Bay	20 54	148 59	+0 09	+0 23	4.92	3.79	1.85	0.73	2.70	0.92	0.00	6.09				
Finlayson Point	20 53	148 56	+0 20	+0 20	5.45	4.21	2.05	0.81	3.12	1.02	0.00	6.76	PSM 47336	7.149		
Carlisle Island	20 47	149 17	+0 02	-0 02	4.49	3.46	1.69	0.66	2.58	0.84	0.00	5.56				
Laguna Quays Marina	20 36	148 40	+0 30	+0 25	4.88	3.77	1.85	0.74	2.79	0.91	+0.02	6.05	PSM 29116	15.786		

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	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Bugatti Reef	20 05	150 18	Standard Port		2.64	2.06	1.14	0.56	1.60	1.00	0.00	3.58				
Cato Island *	23 15	155 32	-2 03	-2 03	1.6	1.3	0.7	0.3	0.99			2.1				
Creal Reef *	20 32	150 22	+0 19	+0 19	3.2	2.5	1.1	0.4	1.80			4.1				
Pith Reef *	18 13	147 01	-0 59	-0 59	2.6	1.6	1.5	0.5	1.55			3.3				
Mellish Reef *	17 25	155 52	-1 43	-1 43	1.5	0.9	0.8	0.2	0.85			1.7				
Willis Island *	16 13	150 01	-1 06	-1 06	2.2	1.3	1.3	0.5	1.32			2.7				
Shute Harbour	20 17	148 47	Standard Port		3.35	2.62	1.31	0.58	1.97	1.00	0.00	4.39	PSM 75758	12.735		
East Repulse Island *	20 35	148 53	+0 16	+0 16	4.5	3.5	1.7	0.8	2.64			5.7				
Lindeman Island	20 28	149 03	+0 06	+0 08	3.84	3.01	1.53	0.71	2.37	1.13	+0.05	5.01	PSM 102646	4.255		
Hamilton Island	20 21	148 57	+0 02	+0 02	3.86	3.03	1.55	0.73	2.15	1.13	+0.07	5.03	PSM 52214	8.565		
Abel Point (Airlie Beach)	20 16	148 43	-0 07	-0 06	3.05	2.39	1.20	0.53	1.80	0.91	0.00	3.99	PSM 146544	5.742		
Cid Harbour *	20 16	148 55	-0 01	-0 01	3.3	2.5	1.3	0.5	1.87			4.2				
Molle Island *	20 15	148 50	+0 00	+0 00	3.5	2.2	1.5	0.2	1.81			4.1				
Double Bay *	20 11	148 38	-0 19	-0 19	3.0	2.4	1.2	0.6	1.77			3.9				
Nara Inlet	20 10	148 54	-0 12	-0 12	3.31	2.60	1.33	0.63	1.94	0.97	+0.06	4.32	PSM 50460	13.517		
Hayman Island *	20 03	148 53	-0 24	-0 24	3.3	2.6	1.3	0.7	1.93			4.3	PSM 97497	5.592		
Hook Island *	20 04	148 56	-0 13	-0 13	2.9	2.3	1.1	0.5	1.69			3.8				
Bowen	20 01	148 15	Standard Port		2.88	2.26	1.36	0.73	1.81	1.00	0.00	3.77	PSM 10009	8.689		

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Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Abbot Point	19 51	148 05	Standard Port		2.76	2.13	1.35	0.73	1.74	1.00	0.00	3.62	PSM 200984	14.069		
Oyster Rocks (Burdekin River)	19 44	147 35	-0 03	+0 32	2.59	2.00	1.27	0.68	1.65	0.94	0.00	3.40	PSM 50442	4.880		
Cape Ferguson	19 17	147 03	Standard Port		2.84	2.05	1.44	0.65	1.75	1.00	0.00	3.84	PSM 66408	34.276		
Townsville	19 15	146 50	Standard Port		3.17	2.32	1.68	0.83	2.00	1.00	0.00	4.22	PSM 10011	9.025		
Cape Pallarenda	19 11	146 47	+0 02	+0 03	3.20	2.34	1.70	0.84		1.01	0.00	4.26	PSM 39449	22.969		
Magnetic Island	19 09	146 52	+0 06	+0 02	3.04	2.22	1.61	0.79	1.97	0.96	0.00	4.05	PSM 48457	4.488		
Townsville Fairway Beacon	19 08	146 54	-0 01	-0 02	3.09	2.26	1.64	0.81	1.92	0.98	0.00	4.11	PSM 195971	10.775		
Britomart Reef	18 15	146 43	-0 15	-0 20	2.73	1.99	1.45	0.71	1.75	0.86	0.00	3.62	PSM 56025	0.060		
Goold Island *	18 10	146 09	-0 02	-0 02	2.9	2.2	1.6	0.8	1.88			3.8				
Dunk Island *	17 56	146 08	-0 02	-0 02	2.8	2.1	1.5	0.8	1.79			3.6	RAN BM F79	4.331		
Flinders Reef	17 43	148 27	-0 25	-0 15	2.35	1.76	1.32	0.73	1.54	0.69	+0.16	3.07				
Unnamed Reef No2 *	19 37	149 50	-0 03	-0 03	2.5	1.6	1.3	0.4	1.48			3.1				
Jaguar Reef *	18 58	148 26	-0 14	-0 14	2.4	1.5	1.3	0.4	1.36			2.9				
Shrimp Reef *	18 56	148 04	-0 04	-0 04	2.5	1.5	1.3	0.3	1.41			3.0				
John Brewer Reef ***	18 38	147 03	+0 04	+0 04	2.51	1.74	1.34	0.56	1.54			3.40				
Unnamed Reef No1 *	17 52	146 43	-0 08	-0 08	2.6	1.6	1.5	0.5	1.58			3.3				

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					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Lucinda (Offshore)	18 31	146 23	Standard Port		3.04	2.23	1.65	0.85	1.94	1.00	0.00	4.06	PSM 196398	7.896		
Albino Rock *	18 47	146 43	+0 00	+0 00	2.7	1.9	1.3	0.5	1.56				3.5			
Cardwell	18 16	146 02	+0 01	-0 05	3.22	2.37	1.75	0.90	1.99	1.06	0.00	4.30	PSM 10019	7.514		
Clump Point	17 51	146 06	Standard Port		2.78	2.06	1.54	0.82	1.80	1.00	0.00	3.71	PSM 25794	6.648		
Mourilyan Harbour	17 36	146 07	Standard Port		2.71	2.04	1.55	0.88	1.79	1.00	0.00	3.58	PSM 4855	5.037		
South Barnard Island *	17 44	146 09	-0 04	-0 04	2.7	1.7	1.5	0.6	1.62				3.4			
Nathan Reef	17 32	146 30	-0 07	-0 04	2.44	1.84	1.39	0.79	1.67	0.90	0.00	3.22				
Innisfail	17 31	146 02	+0 25	+0 55	2.02	1.37	0.89	0.23	1.12	0.98	-0.63	2.88				
Flying Fish Point	17 30	146 05	+0 05	+0 15	2.68	2.02	1.53	0.87	1.75	0.99	0.00	3.54	PSM 7049	4.122		
Pearl Reef	17 29	146 25	-0 08	-0 02	2.57	1.94	1.47	0.84	1.70	0.95	0.00	3.40				

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					H M	H M	m	m	m	m	m		m	m		
Cairns	16 56	145 47	Standard Port		2.67	1.98	1.50	0.82	1.74	1.00	0.00	3.57	PSM 96052	5.008		
Russell Island *	17 13	146 06	-0 17	-0 17	2.4	1.5	1.4	0.6	1.48			2.8				
Sudbury Cay *	16 57	146 09	-0 06	-0 06	2.6	1.6	1.5	0.6	1.57			3.0	PSM 76364	3.335		
Fitzroy Island *	16 55	146 00	-0 09	-0 09	2.6	1.6	1.5	0.5	1.57			3.2	PSM 76393	4.382		
Green Island *	16 45	145 58	-0 06	-0 06	2.5	1.6	1.4	0.6	1.54			3.1	PSM 110179	4.28		
Palm Cove *	16 44	145 40	-0 08	-0 08	2.5	1.6	1.4	0.5	1.71			3.1	PSM 73388	9.611		
Saxon Reef	16 28	145 59	-0 17	-0 11	2.35	1.74	1.32	0.72		0.88	0.00	3.14	PSM 85865	-2.740		
Low Islets	16 23	145 34	+0 00	+0 00	2.48	1.84	1.39	0.76	1.59	0.93	0.00	3.32	PSM 76300	4.784		
Bailay Creek *	16 12	145 27	+0 16	+0 16	2.2	1.3	1.2	0.3	1.27			2.6				
Cooktown	15 28	145 15	-0 02	+0 06	2.45	1.82	1.38	0.75	1.53	0.92	0.00	3.28	PSM 20031	9.211		
Low Wooded Isle *	15 05	145 23	-0 04	-0 04	2.5	1.5	1.5	0.4	1.47			3.0				
Cape Flattery	14 57	145 19	-0 10	-0 10	2.37	1.76	1.33	0.73	1.52	0.89	0.00	3.17	PSM 177548	3.915		
Morris Island *	13 29	143 42	+0 14	+0 14	2.5	1.8	1.4	0.7	1.58			3.3	PSM 92353	-0.690		
Portland Roads	12 36	143 25	+0 19	+0 08	2.67	1.98	1.50	0.82	1.67	1.00	0.00	3.57	PSM BM54	2.813		
Cape Grenville *	11 58	143 16	+0 44	+0 44	2.6	1.8	1.3	0.5	1.70			3.3				
Port Douglas	16 29	145 28	Standard Port		2.54	1.88	1.42	0.75	1.65	1.00	0.00	3.40	PSM 10077	6.058		
East Hope Island *	15 44	145 28	-0 12	-0 12	2.5	1.5	1.4	0.4	1.47			3.1				

Semidiurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

AHD levels or details for determining AHD levels for permanent marks can be sourced from Queensland Globe (<https://qldglobe.information.qld.gov.au/>)

Place	Latitude		Longitude		Time Difference		MHWS	MHWN	MLWN	MLWS	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Leggatt Island	14 32	144 51	Standard Port		2.60	1.92	1.49	0.80	1.70	1.00	0.00	3.45				
Normanby River *	14 26	144 09			+0 05	+0 05	2.4	1.6	1.2	0.3	1.39			3.4		
Eden Reef *	14 05	143 55			-0 10	-0 10	2.8	2.0	1.5	0.7	1.77			3.6		
Pelican Island *	13 55	143 50			+0 07	+0 07	3.0	2.2	1.7	0.9	1.91			3.9		
Fife Island *	13 39	143 43			+0 03	+0 03	2.6	1.8	1.4	0.7	1.63			3.3		
Round Point *	11 53	143 06			+0 42	+0 42	2.8	1.9	1.4	0.5	1.67			3.6		
Hannibal Islands *	11 35	142 56			+1 00	+1 00	3.0	2.1	1.5	0.6	1.74			3.8		
Collette Reef *	11 14	143 21			+1 04	+1 04	2.7	1.9	1.3	0.5	1.60			3.5		

The secondary place time differences and tidal planes are based on short observation sets and are updated as new observations become available.

* Tidal planes defined in Australian National Tide Tables (ANNT) 2025.

** Tidal planes determined through non-linear tidal transfer. Contact MSQ Tidal Unit for further information.

*** Tidal planes determined via harmonic analysis

Diurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

AHD levels or details for determining AHD levels for permanent marks can be sourced from Queensland Globe (<https://qldglobe.information.qld.gov.au/>)

Place	Latitude		Longitude		Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Shute Harbour	20 17	148 47	Standard Port		3.53	2.45	1.49	0.41	1.97	1.00	0.00	4.39	PSM 75758	12.735		
Bugatti Reef	20 05	150 18	Standard Port		2.83	1.87	1.33	0.37	1.60	1.00	0.00	3.58				
Townsville	19 15	146 50	Standard Port		3.24	2.24	1.76	0.75	2.00	1.00	0.00	4.22	PSM 10011	9.025		
Mourilyan Harbour	17 36	146 07	Standard Port		2.84	1.90	1.68	0.74	1.79	1.00	0.00	3.58	PSM 4855	5.037		
Cairns	16 56	145 47	Standard Port		2.79	1.86	1.63	0.69	1.74	1.00	0.00	3.57	PSM 96052	5.008		
High Island	17 09	146 00	-0 06	-0 06	2.65	1.76	1.54	0.66	1.63	0.95	0.00	3.39	PSM 76352	3.969		
Michaelmas Cay ***	16 36	145 59	-0 11	-0 11	2.52	1.61	1.52	0.60	1.56			3.20	PSM 55995	3.948		
Cape Bedford ***	15 13	145 20	+0 04	+0 04	2.34	1.48	1.37	0.51	1.42			2.87				
Lizard Island	14 41	145 27	-0 09	-0 09	2.36	1.54	1.34	0.53	1.44	0.87	-0.07	3.03	PSM 72386	3.535		
Port Douglas	16 29	145 28	Standard Port		2.67	1.75	1.54	0.63	1.65	1.00	0.00	3.40	PSM 10077	6.058		

Diurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

AHD levels or details for determining AHD levels for permanent marks can be sourced from Queensland Globe (<https://qldglobe.information.qld.gov.au/>)

Place	Latitude		Longitude		Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	South	HW	LW										
Tidal Datum Epoch 2010-2029																
					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Leggatt Island	14 32	144 51	Standard Port		2.71	1.80	1.60	0.69	1.70	1.00	0.00	3.45				
North Direction Island ***	14 45	145 30	-0 05	-0 05	2.40	1.50	1.38	0.48	1.44			2.96	PSM 90003	6.425		
East Petherbridge Island ***	14 44	145 06	-0 01	-0 01	2.58	1.65	1.48	0.56	1.57			3.17	PSM 76480	2.749		
Pipon Island *	14 07	144 30	-0 02	-0 02	2.5	1.5	1.4	0.5	1.48			3.0				
Creech Reef *	13 38	144 05	+0 01	+0 01	2.5	1.5	1.5	0.5	1.50			3.1	PSM 79102	0.48		
Unnamed Reef No3 ***	13 20	143 58	-0 04	-0 04	2.42	1.53	1.45	0.56	1.49			3.08	PSM 92361	-0.66		
Suchen Reef *	13 18	143 47	-0 02	-0 02	2.5	1.6	1.5	0.6	1.57			3.3				
Night Island *	13 11	143 34	+0 01	+0 01	2.5	1.6	1.4	0.5	1.50			3.0				
Jubilee Reef ***	13 10	143 46	+0 02	+0 02	2.50	1.62	1.47	0.59	1.55			3.23	PSM 92355	-1.35		
Ham Reef ***	13 02	143 52	-0 07	-0 07	2.33	1.46	1.37	0.50	1.42			2.97	PSM 92358	-0.85		
Sir Charles Hardy Island *	11 55	143 26	+0 27	+0 27	2.7	1.6	1.5	0.4	1.57			3.3				
Raine Island *	11 36	144 03	-0 10	-0 10	2.3	1.4	1.4	0.5	1.42			2.9				
Shadwell Reef *	11 27	143 46	+0 29	+0 29	2.3	1.4	1.2	0.3	1.30			2.8				
Twin Island	10 28	142 26	Standard Port		3.04	2.03	1.57	0.57	1.80	1.00	0.00	3.88	PSM 48736	2.99		
Thursday Island	10 35	142 13	Standard Port		3.12	2.41	1.41	0.71	1.91	1.00	0.00	3.94	PSM 10078	6.375		
Red Island Point (Bamaga) ***	10 51	142 22	+0 07	+0 07	2.7	2.1	1.1	0.5	1.60			3.23	PSM 183076	4.774		

Diurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

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Place	Latitude		Longitude		Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029																
					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Goods Island	10 34	142 09	Standard Port		3.79	2.73	1.63	0.57	2.18	1.00	0.00	4.15	PSM 48726	5.33		
Booby Island	10 36	141 55	Standard Port		4.32	2.88	2.06	0.62	2.47	1.00	0.00	4.43				
Crab Island *	10 58	142 07	-0 13	-0 13	3.7	2.4	1.8	0.5	2.10			3.7				
Bampffield Head *	10 42	142 06	-0 10	-0 10	4.3	3.0	1.9	0.6	2.44			4.5				
Merauke *	08 29	140 24	-2 51	-2 51	5.5	3.2	2.9	0.6	3.04			5.7				
Weipa (Humbug Point)	12 40	141 52	Standard Port		3.01	2.27	1.51	0.77	1.89	1.00	0.00	3.33	PSM 15094	7.287		
Aurukun (Archer River)	13 22	141 43	+0 14	+0 23	2.41	1.81	1.21	0.62	1.56	0.80	0.00	2.66	PSM 81258	7.068		
Archer River (Worbody Point) *	13 20	141 39	+0 25	+0 25	2.1	1.7	0.8	0.4	1.26			2.2				
Pennefather River	12 18	141 42	-0 31	-0 34	3.19	2.40	1.60	0.82	1.93	1.06	0.00	3.52	PSM 83515	7.807		
Amrun (Boyd Point)	12 55	141 37	Standard Port		2.93	2.37	1.54	0.98	1.95	1.00	0.00	3.32	PSM 182173	9.947		
Karumba	17 30	140 50	Standard Port		3.91	3.55	0.78	0.42	2.16	1.00	0.00	4.85	PSM 10222	6.808		
Sweers Island Offshore *	16 52	139 36	+0 11	+0 11	3.8	3.7	0.9	0.8	2.27			4.7				
Inscription Point (Sweers Is.)	17 07	139 36	+0 52	+0 36	3.84	3.49	0.80	0.46	2.12	0.97	+0.05	4.76				

Diurnal Tidal Planes - 2026

Height above Queensland Port Datum (LAT (1992))

AHD levels or details for determining AHD levels for permanent marks can be sourced from Queensland Globe (<https://qldglobe.information.qld.gov.au/>)

Place	Latitude		Longitude		Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
	South	East	East	West	HW	LW										
Tidal Datum Epoch 2010-2029					1	2	3	4	5	6	7	8	9	10		
					H M	H M	m	m	m	m	m		m	m		
Mornington Island	16 40	139 10			Standard Port		3.34	3.06	1.26	0.97	2.16	1.00	0.00	3.95	RM(3)	4.894

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** Tidal planes determined through non-linear tidal transfer. Contact MSQ Tidal Unit for further information.

*** Tidal planes determined via harmonic analysis