

Semidiurnal Tidal Planes - 2022

Height above Queensland Port Datum (LAT (1992))

Place	Latitude South	Longitude East	Time Difference		MHWS	MHWN	MLWN	MLWS	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
			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	m		
Gold Coast Seaway	27 57	153 25	Standard Port		1.47	1.18	0.45	0.16	0.81	1.00	0.00	1.97	PSM 702548	6.688
North Coast New South Wales -														
Ballina (Richmond River) *	28 53	153 35	+0 06	+0 06	1.4	1.1	0.5	0.2	0.87			1.9		
Brunswick Heads *	28 32	153 33	+0 07	+0 07	1.5	1.2	0.5	0.2	0.92			2.0		
Kingscliff *	28 16	153 35	+0 09	+0 09	1.4	1.1	0.4	0.2	0.76			1.9		
Tweed River Breakwater	28 10	153 33	-0 04	+0 00	1.39	1.13	0.45	0.19	0.96	0.92	+0.04	1.85		
Gold Coast Beaches -														
Snapper Rocks (Coolangatta)	28 10	153 33	-0 26	-0 15	1.62	1.30	0.49	0.17	1.02	1.10	0.00	2.16	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 00	153 25	+0 41	+0 56	1.30	1.09	0.56	0.35	0.72	0.72	+0.24	1.66	PSM 137932	3.362
Gold Coast Bridge	27 59	153 25	+0 10	+0 20	1.56	1.28	0.56	0.28	0.88	0.97	+0.13	2.04	PSM 14620	3.389
Grand Hotel Jetty	27 57	153 25	+0 16	+0 31	1.44	1.16	0.44	0.15	0.85	0.98	0.00	1.93	PSM 6863	2.563
Nerang Township	28 00	153 20	+1 53	+2 39	1.15	0.92	0.35	0.12	0.63	0.78	0.00	1.53		
Paradise Point	27 53	153 24	+1 01	+1 25	1.28	1.03	0.39	0.14	0.69	0.87	0.00	1.71	PSM 17355	1.98
Runaway Bay	27 55	153 24	+0 31	+0 52	1.26	1.02	0.38	0.14	0.67	0.86	0.00	1.69	PSM 110667	2.058
Coomera River (Saltwater Creek)	27 52	153 20	+1 44	+2 21	1.27	1.03	0.42	0.17	0.72	0.84	+0.04	1.69	PSM 137376	3.157
Sanctuary Cove	27 51	153 22	+1 34	+2 06	1.27	1.03	0.42	0.17	0.72	0.84	+0.04	1.69		
Couran Cove	27 49	153 25	+1 19	+1 20	1.39	1.11	0.41	0.13	0.81	0.96	-0.02	1.87	PM 41943	1.72
The Bedroom	27 46	153 26	+1 14	+1 06	1.39	1.11	0.41	0.13	0.81	0.96	-0.02	1.87		
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	4.09
Wolfdene **	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 10	+0 10	2.27	1.87	0.82	0.43	1.32	1.02	0.00	2.84	PSM 7632	2.893
Cairncross Dock	27 27	153 05	+0 20	+0 20	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 30	+0 30	2.36	1.95	0.86	0.45	1.37	1.06	0.00	2.95	PSM 10210	6.529
Tennyson (Long Pocket)	27 32	153 00	+0 50	+0 50	2.42	2.00	0.88	0.46	1.43	1.09	0.00	3.03		
Indooroopilly	27 31	152 59	+1 10	+1 10	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	2.36	1.95	0.86	0.45	1.35	1.06	0.00	2.95		
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 00	+2 10	2.15	1.82	0.53	0.28	1.18			2.65	PSM 30537	12.555
Moggill Ferry **	27 36	152 51	+2 20	+2 30	2.18	1.83	0.42	0.15	1.14			2.69		
Kholo Creek **	27 32	152 51	+2 30	+2 50	2.19	1.84	0.39	0.21	1.14			2.69	PSM 32752	12.169
Bremer River														
Warrego Highway Bridge **	27 35	152 49	+2 30	+2 55	2.40	2.02	0.64	0.43	1.36			2.95	PM 3833	17.115
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 30	+0 29	1.88	1.55	0.65	0.32	1.08	0.87	-0.05	2.37	PSM 105592	2.886
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

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Place	Latitude South	Longitude East	Time Difference		MHWS 3	MHWN 4	MLWN 5	MLWS 6	MSL 7	Ratio 8	Cons 9	HAT 10	Permanent Mark No.	Reference Level
			HW	LW										
			1 H M	2 H M										
Tidal Datum Epoch 2010-2029														
Brisbane Bar continued														
Moreton Bay Area continued														
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 39924	12.445
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	22.28
Raby Bay (Canals Entrance)	27 30	153 16	+0 02	+0 02	2.32	1.92	0.86	0.47	1.37	1.03	+0.03	2.90		
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	3.84
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	3.57
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	3.57
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		
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 01	-0 01	2.13	1.76	0.78	0.41	1.24	0.96	0.00	2.67	PSM 34799	3.032
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 20	153 05	+0 01	-0 01	2.13	1.76	0.78	0.41	1.24	0.96	0.00	2.67	PSM 34799	3.032
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 09	-0 13	2.11	1.75	0.77	0.40	1.25	0.95	0.00	2.64		
Scarborough Boat Harbour	27 12	153 06	+0 05	+0 05	1.98	1.64	0.72	0.38	1.16	0.89	0.00	2.48	PSM 15520	2.673
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 90765	3.885
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 West Channel Fairway	26 51	153 09	-1 30	-1 40	1.67	1.38	0.61	0.32	1.00	0.75	0.00	2.09	PSM 3067	2.215
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	PSM 57820	2.937
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		
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		
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
Golden Beach (Caloundra) **	26 48	153 07	-0 53	-0 11	1.16	0.87	0.45	0.33	0.82			1.58	PSM 60531	2.195

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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		
Mooloolaba	26 41	153 08	Standard Port		1.70	1.38	0.63	0.30	1.00	1.00	0.00	2.21	PSM 37055	5.719
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	0.00	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	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	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	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	1.59
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	5.03
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 Head	26 23	153 06	Standard Port		1.85	1.52	0.79	0.45	1.15	1.00	0.00	2.35	PSM 19728	3.781
Noosa River -														
Munna Point	26 24	153 04	+0 42	+1 35	0.87	0.74	0.44	0.31	0.52	0.40	+0.13	1.07	PSM 18419	1.818
Tewantin	26 24	153 02	+1 07	+1 49	0.66	0.56	0.33	0.23	0.45	0.31	+0.09	0.82	PSM 50386	1.226
Noosa Beaches -														
Noosa Beach	26 23	153 05	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	1.00	0.00	2.35		
Teewah Sands	26 16	153 04	+0 00	+0 00	1.85	1.52	0.79	0.45	1.13	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	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	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	0.00	2.35		
Waddy Point (Fraser Island)	24 58	153 21	Standard Port		1.81	1.50	0.87	0.56	1.18	1.00	0.00	2.42	NMVB/417	3.165
Urangan	25 18	152 55	Standard Port		3.54	2.84	1.43	0.73	2.14	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	0.00	4.64		
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	3.45
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		

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			HW	LW										
			1	2										
Tidal Datum Epoch 2010-2029			H M	H M	m	m	m	m	m	m	m			
Bundaberg (Burnett Heads) cont.														
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	1.02	1.01	1.62			2.83	PSM 75197	3.383
Lady Elliott Island	24 07	152 43	-0 21	-0 21	2.12	1.68	0.83	0.39	1.25	0.74	-0.06	2.66	PSM 72773	3.834
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 01	151 45	-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 17	-0 16	3.49	2.75	1.41	0.67	2.14	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 19	+0 10	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	5.58
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 14	151 46	-0 18	-0 18	2.9	2.2	1.1	0.4	1.63			3.6	PSM 72774	7.842
Great Keppel Island	23 11	150 56	+0 05	+0 03	4.21	3.32	1.70	0.81	2.49	1.05	0.00	5.11		
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	12.77
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
Rosslyn 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	6.64
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	18.04
Marquis Island *	22 20	150 27	-0 26	-0 26	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 04	-0 04	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 20035	10.595
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 62350	11.728
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

Note:

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Semidiurnal Tidal Planes - 2022

Height above Queensland Port Datum (LAT (1992))

Place	Latitude South	Longitude East	Time Difference		MHWS	MHWN	MLWN	MLWS	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
			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			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 20	+0 20	3.2	2.5	1.1	0.4	1.80			4.1		
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 8295	5.103
East Repulse Island *	20 35	148 53	+0 15	+0 15	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 15	148 55	-0 02	-0 02	3.3	2.5	1.3	0.5	1.87			4.2		
Double Bay *	20 11	148 38	-0 20	-0 20	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 04	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
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 66017	46.972
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	4.88
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 04	-0 06	3.04	2.22	1.61	0.79	1.92	0.96	0.00	4.05		
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	0.06
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		
Lucinda (Offshore)	18 31	146 23	Standard Port		3.04	2.23	1.65	0.85	1.94	1.00	0.00	4.06	H&M BM 14	5.543
Albino Rock *	18 47	146 43	+0 01	+0 01	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 76290	8.513
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
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		
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
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	-2.74
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
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
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 88171	2.684
Morris Island *	13 29	143 42	+0 14	+0 14	2.5	1.8	1.4	0.7	1.58			3.3	PSM 92353	-0.69
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 51	+0 51	2.6	1.8	1.3	0.5	1.70			3.3		

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Semidiurnal Tidal Planes - 2022

Height above Queensland Port Datum (LAT (1992))

Place	Latitude South	Longitude East	Time Difference		MHWS	MHWN	MLWN	MLWS	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
			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		
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
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 04	143 54	-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 54	143 06	+0 42	+0 42	2.8	1.9	1.4	0.5	1.67			3.6		
Hannibal Islands *	11 36	142 56	+0 56	+0 56	3.0	2.1	1.5	0.6	1.74			3.8		
Collette Reef *	11 14	142 56	+0 34	+0 34	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) 2021.

** Tidal planes determined through non-linear tidal transfer.

Note:

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Diurnal Tidal Planes - 2022

Height above Queensland Port Datum (LAT (1992))

Place	Latitude South	Longitude East	Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
			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 8295	5.103
Molle Island *	20 15	148 50	-0.01	-0.01	3.5	2.2	1.5	0.2	1.81			4.1		
Bugatti Reef	20 05	150 18	Standard Port		2.83	1.87	1.33	0.37	1.60	1.00	0.00	3.58	PSM BM1	2.33
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		
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
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 59	148 25	-0.13	-0.13	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	2.5	1.6	1.4	0.4	1.48			3.4		
Unnamed Reef No1 *	17 52	146 43	-0.08	-0.08	2.6	1.60	1.5	0.5	1.58			3.3		
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
South Barnard Island *	17 44	146 09	-0.05	-0.05	2.7	1.7	1.5	0.6	1.62			3.4		
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
Russell Island *	17 13	146 06	-0.17	-0.17	2.4	1.5	1.4	0.6	1.48			2.8		
High Island *	17 10	146 00	-0.10	-0.10	2.6	1.7	1.5	0.6	1.59			3.2	PSM 76352	3.969
Sudbury Cay *	16 57	146 08	-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	-0.05	-0.05	2.5	1.6	1.4	0.6	1.54			3.1	PSM 110179	4.28
Palm Cove *	16 44	145 40	-0.07	-0.07	2.5	1.6	1.4	0.5	1.71			3.1	PSM 73388	9.611
Michaelmas Cay *	16 36	145 59	-0.11	-0.11	2.5	1.6	1.5	0.6	1.52			3.1		
Bailay Creek *	16 12	145 27	+0.16	+0.16	2.2	1.3	1.2	0.3	1.27			2.6		
Cape Bedford *	15 13	145 20	+0.04	+0.04	2.3	1.4	1.3	0.5	1.38			2.8		
Low Wooded Isle *	15 05	145 23	-0.04	-0.04	2.5	1.5	1.5	0.4	1.47			3.0		
Lizard Island	14 41	145 27	-0.09	-0.09	-0.07	-0.07	-0.07	-0.07	1.00	0.87	-0.07	-0.07	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
East Hope Island *	15 44	145 28	-0.11	-0.11	2.5	1.5	1.4	0.4	1.47			3.1		
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	-0.06	-0.06	2.4	1.5	1.4	0.5	1.44			3.0	PSM 90003	6.425
East Petherbridge Island *	14 44	145 06	-0.01	-0.01	2.6	1.7	1.5	0.6	1.57			3.2	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	2.4	1.6	1.5	0.6	1.51			3.1	PSM 92361	-0.66
Suchen Reef *	13 18	143 47	-0.01	-0.01	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	+0.00	+0.00	2.5	1.6	1.5	0.6	1.55			3.2	PSM 92355	-1.35
Ham Reef *	13 02	143 52	-0.07	-0.07	2.3	1.5	1.4	0.5	1.42			3.0	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	-0.01	-0.01	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	+0.00	+0.00	2.8	2.2	1.0	0.4	1.56			3.2	PSM 183076	4.774
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

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Diurnal Tidal Planes - 2022

Height above Queensland Port Datum (LAT (1992))

Place	Latitude South	Longitude East	Time Difference		MHHW	MLHW	MHLW	MLLW	MSL	Ratio	Cons	HAT	Permanent Mark No.	Reference Level
			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		
Booby Island	10 36	141 55	Standard Port		4.32	2.88	2.06	0.62	2.47	1.00	0.00	4.43	PSM BM1	10.773
Crab Island *	10 58	142 07	-0 12	-0 12	3.7	2.4	1.8	0.5	2.10			3.7		
Bampfield Head *	10 42	142 06	-0 09	-0 09	4.3	3.0	1.9	0.6	2.44			4.5		
Merauke *	08 29	140 24	-2 50	-2 50	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	0.00	0.00	0.00	0.00	1.35	0.79	0.00	0.00	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 33	-0 33	0.00	0.00	0.00	0.00	1.38	1.06	0.00	0.00	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 13	+0 13	3.8	3.7	0.9	0.8	2.27			4.7		
Inscription Point (Sweers Is.)	17 07	139 36	+0 52	+0 36	0.05	0.05	0.05	0.05	1.32	0.97	+0.05	0.05		
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

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 (ANTT) 2021.

** Tidal planes determined through non-linear tidal transfer.

Note:

For reference to AHD please source the relevant Permanent Mark AHD levels from <https://qldglobe.information.qld.gov.au/> for comparison against LAT