

# Semidiurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place   | Latitude<br>South | Longitude<br>East | Time Difference      |          | MHWS<br>3<br>m | MHWN<br>4<br>m | MLWN<br>5<br>m | MLWS<br>6<br>m | MSL<br>8<br>m | Ratio<br>9  | Cons<br>10<br>m | HAT<br>11<br>m | Permanent Mark<br>No. | Reference<br>Level |
|---|-------------------|-------------------|----------------------|----------|----------------|----------------|----------------|----------------|---------------|-------------|-----------------|----------------|-----------------------|--------------------|
|   |                   |                   | 1<br>H M             | 2<br>H M |                |                |                |                |               |             |                 |                |                       |                    |
| <b>Tidal Datum Epoch 1992 - 2011</b>  |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| <b>Gold Coast Seaway</b>  | <b>27 57</b>      | <b>153 25</b>     | <b>Standard Port</b> |          | <b>1.42</b>    | <b>1.13</b>    | <b>0.39</b>    | <b>0.11</b>    | <b>0.76</b>   | <b>1.00</b> | <b>0.00</b>     | <b>1.91</b>    | <b>PSM QGS564</b>     | <b>6.688</b>       |
| <b>North Coast New South Wales -</b>  |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Ballina (Richmond River)  | 28 53             | 153 35            | +0 06                | +0 06    | 1.4            | 1.1            | 0.5            | 0.2            | 0.80          |             |                 | 1.9            |                       |                    |
| Brunswick Heads   | 28 32             | 153 33            | +0 07                | +0 07    | 1.5            | 1.2            | 0.5            | 0.2            | 0.86          |             |                 | 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    | 1.35           | 1.08           | 0.40           | 0.14           | 0.91          | 0.92        | +0.04           | 1.80           |                       |                    |
| <b>Gold Coast Beaches -</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Snapper Rocks (Coolangatta)   | 28 10             | 153 33            | -0 26                | -0 15    | 1.56           | 1.24           | 0.43           | 0.12           | 0.97          | 1.10        | 0.00            | 2.10           | PSM 7222              | 5.904              |
| Ocean Beaches<br>Jumpinpin Bar to Snapper Rocks tides occur 20 mins earlier than Gold Coast Seaway. |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| <b>Broadwater &amp; Nerang River-</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Isle of Capri   | 28 00             | 153 25            | +0 41                | +0 56    | 1.26           | 1.05           | 0.52           | 0.32           | 0.67          | 0.72        | +0.24           | 1.62           | PSM 18886             | 3.263              |
| Gold Coast Bridge   | 27 59             | 153 25            | +0 10                | +0 20    | 1.51           | 1.23           | 0.51           | 0.24           | 0.83          | 0.97        | +0.13           | 1.98           | PSM 14620             | 3.389              |
| Grand Hotel Jetty   | 27 57             | 153 25            | +0 16                | +0 31    | 1.39           | 1.11           | 0.38           | 0.11           | 0.80          | 0.98        | 0.00            | 1.87           | PSM 6863              | 2.563              |
| Nerang Township   | 28 00             | 153 20            | +1 53                | +2 39    | 1.11           | 0.88           | 0.30           | 0.09           | 0.58          | 0.78        | 0.00            | 1.49           | PSM 40764             | 4.547              |
| Paradise Point  | 27 53             | 153 24            | +1 01                | +1 25    | 1.24           | 0.98           | 0.34           | 0.10           | 0.64          | 0.87        | 0.00            | 1.66           | PSM 17355             | 1.98               |
| Runaway Bay   | 27 55             | 153 24            | +0 31                | +0 52    | 1.22           | 0.97           | 0.34           | 0.09           | 0.62          | 0.86        | 0.00            | 1.64           | PSM 110667            | 2.058              |
| Coomera River (Saltwater Creek)   | 27 52             | 153 20            | +1 44                | +2 21    | 1.23           | 0.99           | 0.37           | 0.13           | 0.67          | 0.84        | +0.04           | 1.64           | PSM 77643             | 5.076              |
| Sanctuary Cove  | 27 51             | 153 22            | +1 34                | +2 06    | 1.23           | 0.99           | 0.37           | 0.13           | 0.67          | 0.84        | +0.04           | 1.64           | PSM 99183             | 3.011              |
| Couran Cove   | 27 49             | 153 25            | +1 19                | +1 20    | 1.34           | 1.06           | 0.35           | 0.09           | 0.76          | 0.96        | -0.02           | 1.81           | PSM 41943             | 1.72               |
| The Bedroom   | 27 46             | 153 26            | +1 14                | +1 06    | 1.34           | 1.06           | 0.35           | 0.09           | 0.76          | 0.96        | -0.02           | 1.81           | PSM 50477             | 1.764              |
| <b>Brisbane Bar</b>   | <b>27 22</b>      | <b>153 10</b>     | <b>Standard Port</b> |          | <b>2.17</b>    | <b>1.78</b>    | <b>0.76</b>    | <b>0.37</b>    | <b>1.27</b>   | <b>1.00</b> | <b>0.00</b>     | <b>2.73</b>    | <b>PSM 21764</b>      | <b>3.102</b>       |
| Pimpama River (Kerkin Rd Weir)  | 27 48             | 153 20            | +0 57                | +1 27    | 1.36           | 1.05           | 0.30           | 0.15           | 0.73          |             |                 | 1.78           |                       |                    |
| <b>Albert River -</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Junction Logan River  | 27 42             | 153 14            | +1 22                | +2 14    | 2.05           | 1.66           | 0.54           | 0.33           | 1.12          |             |                 | 2.59           | PSM 71428             | 10.958             |
| Pacific Highway Bridge  | 27 44             | 153 13            | +1 37                | +2 42    | 1.90           | 1.50           | 0.44           | 0.25           | 0.94          |             |                 | 2.45           | PSM 27112             | 8.56               |
| Wolfdene  | 27 47             | 153 11            | +2 12                |          | 1.32           | 0.98           |                |                |               |             |                 | 1.79           |                       |                    |
| <b>Logan River -</b>  |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Rocky Point (Mouth Logan River)   | 27 42             | 153 21            | +0 40                | +0 55    | 2.09           | 1.72           | 0.74           | 0.37           | 1.21          | 0.96        | +0.01           | 2.63           | PSM 87560             | 5.328              |
| Junction Albert River   | 27 42             | 153 14            | +1 22                | +2 14    | 2.05           | 1.66           | 0.54           | 0.33           | 1.12          |             |                 | 2.59           | PSM 71428             | 10.958             |
| Slacks Creek (Mouth)  | 27 40             | 153 10            | +2 13                | +3 05    | 1.79           | 1.45           | 0.40           | 0.21           | 0.96          |             |                 | 2.27           | PSM 71422             | 8.963              |
| Waterford   | 27 42             | 153 09            | +2 39                | +3 34    | 1.59           | 1.27           | 0.28           | 0.11           | 0.81          |             |                 | 2.03           | PSM 61886             | 10.306             |
| <b>Brisbane River -</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Boat Passage  | 27 24             | 153 10            | +0 00                | +0 00    | 2.17           | 1.78           | 0.76           | 0.37           | 1.27          | 1.00        | 0.00            | 2.73           |                       |                    |
| Pinkenba  | 27 26             | 153 07            | +0 10                | +0 10    | 2.21           | 1.82           | 0.78           | 0.38           | 1.27          | 1.02        | 0.00            | 2.78           | PSM 7632              | 2.893              |
| Cairncross Dock   | 27 27             | 153 05            | +0 20                | +0 20    | 2.30           | 1.89           | 0.81           | 0.39           | 1.34          | 1.06        | 0.00            | 2.89           | PSM 21769             | 4.565              |
| New Farm  | 27 28             | 153 03            | +0 25                | +0 25    | 2.30           | 1.89           | 0.81           | 0.39           | 1.34          | 1.06        | 0.00            | 2.89           | PSM 21769             | 4.565              |
| Port Office (Edward St Ferry)   | 27 28             | 153 02            | +0 30                | +0 30    | 2.30           | 1.89           | 0.81           | 0.39           | 1.32          | 1.06        | 0.00            | 2.89           | PSM 10210             | 6.529              |
| Tennyson (Long Pocket)  | 27 32             | 153 00            | +0 50                | +0 50    | 2.37           | 1.94           | 0.83           | 0.40           | 1.38          | 1.09        | 0.00            | 2.98           |                       |                    |
| Indooroopilly   | 27 31             | 152 59            | +1 10                | +1 10    | 2.34           | 1.92           | 0.82           | 0.40           | 1.37          | 1.08        | 0.00            | 2.95           |                       |                    |
| Seventeen Mile Rocks  | 27 33             | 152 58            | +1 20                | +1 20    | 2.30           | 1.89           | 0.81           | 0.39           | 1.30          | 1.06        | 0.00            | 2.89           | PSM 40127             | 7.31               |
| Wacol (Wolston Creek)   | 27 34             | 152 54            | +1 55                | +1 55    | 2.18           | 1.83           | 0.56           | 0.27           | 1.20          |             |                 | 2.69           |                       |                    |
| Goodna (Woogaroo Creek)   | 27 36             | 152 54            | +2 00                | +2 10    | 2.10           | 1.76           | 0.50           | 0.24           | 1.13          |             |                 | 2.60           | PSM 30537             | 12.555             |
| Moggill Ferry   | 27 36             | 152 51            | +2 20                | +2 30    | 2.13           | 1.77           | 0.39           | 0.12           | 1.09          |             |                 | 2.64           |                       |                    |
| Kholo Creek   | 27 32             | 152 51            | +2 30                | +2 50    | 2.14           | 1.79           | 0.37           | 0.18           | 1.09          |             |                 | 2.65           | PSM 32752             | 12.169             |
| <b>Bremer River</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Warrego Highway Bridge  | 27 35             | 152 49            | +2 30                | +2 55    | 2.34           | 1.96           | 0.61           | 0.40           | 1.31          |             |                 | 2.89           | PSM 3833              | 17.115             |
| Ipswich (Bremer River)  | 27 35             | 152 47            | +2 40                | +3 10    | 2.16           | 1.76           | 0.71           | 0.30           | 1.30          |             |                 | 2.81           | PSM 31480             | 35.672             |
| <b>Moreton Bay Area -</b>   |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Ocean Beaches<br>Cape Moreton to Snapper Rocks tides occur 1hr 30min earlier than Brisbane Bar.     |                   |                   |                      |          |                |                |                |                |               |             |                 |                |                       |                    |
| Woogoompah Island   | 27 47             | 153 24            | +0 14                | +0 02    | 1.48           | 1.21           | 0.50           | 0.24           | 0.82          | 0.69        | -0.02           | 1.86           | PSM 107988            | 1.813              |
| Jacobs Well   | 27 47             | 153 22            | +0 28                | +0 18    | 1.59           | 1.29           | 0.49           | 0.19           | 0.86          | 0.78        | -0.10           | 2.03           | PSM 7132              | 4.591              |
| Cabbage Tree Point  | 27 44             | 153 22            | +0 30                | +0 29    | 1.84           | 1.50           | 0.61           | 0.27           | 1.03          | 0.87        | -0.05           | 2.33           | PSM 7138              | 2.428              |
| Kalinga Bank  | 27 44             | 153 26            | -0 34                | -0 47    | 1.49           | 1.22           | 0.53           | 0.26           | 0.87          | 0.68        | +0.01           | 1.87           | PSM 50469             | 1.471              |

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|-----------------------------------|-------------------|-------------------|-----------------|----------------|-----------|-----------|-----------|-----------|----------|------------|------------|-----------|-----------------------|--------------------|
|                                   |                   |                   | 1<br>HW<br>H M  | 2<br>LW<br>H M |           |           |           |           |          |            |            |           |                       |                    |
| Tidal Datum Epoch 1992 - 2011     |                   |                   |                 |                |           |           |           |           |          |            |            |           |                       |                    |
| <b>Brisbane Bar continued</b>     |                   |                   |                 |                |           |           |           |           |          |            |            |           |                       |                    |
| <b>Moreton Bay Area continued</b> |                   |                   |                 |                |           |           |           |           |          |            |            |           |                       |                    |
| Oak Island                        | 27 42             | 153 24            | +0 15           | -0 30          | 1.71      | 1.41      | 0.60      | 0.29      | 0.96     | 0.79       | 0.00       | 2.16      |                       |                    |
| Koureyabba                        | 27 42             | 153 24            | +0 30           | +0 06          | 1.76      | 1.44      | 0.62      | 0.30      | 1.00     | 0.81       | 0.00       | 2.21      | PSM 191690            | 2.448              |
| Russell Island (Canaipa Point)    | 27 39             | 153 25            | +0 31           | +0 42          | 2.30      | 1.89      | 0.81      | 0.39      | 1.33     | 1.06       | 0.00       | 2.89      | PSM 39927             | 22.576             |
| Macleay Island (Southern Jetty)   | 27 38             | 153 22            | +0 30           | +0 42          | 2.25      | 1.83      | 0.73      | 0.31      | 1.25     | 1.08       | -0.09      | 2.86      | PSM 39924             | 12.445             |
| Redland Bay                       | 27 37             | 153 18            | +0 30           | +0 45          | 2.37      | 1.94      | 0.83      | 0.40      | 1.35     | 1.09       | 0.00       | 2.98      | PSM 42645             | 3.485              |
| Victoria Point                    | 27 35             | 153 19            | +0 14           | +0 18          | 2.38      | 1.97      | 0.91      | 0.50      | 1.39     | 1.04       | +0.12      | 2.96      | PSM 19596             | 12.382             |
| Macleay Island (Potts Point)      | 27 35             | 153 22            | +0 15           | +0 23          | 2.28      | 1.87      | 0.80      | 0.39      | 1.32     | 1.05       | 0.00       | 2.87      | PSM 50471             | 3.259              |
| Toondah Harbour (Cleveland)       | 27 32             | 153 17            | +0 13           | +0 16          | 2.21      | 1.82      | 0.78      | 0.38      | 1.29     | 1.02       | 0.00       | 2.78      | PSM 35838             | 3.619              |
| Cleveland Point                   | 27 31             | 153 18            | +0 13           | +0 16          | 2.21      | 1.82      | 0.78      | 0.38      | 1.29     | 1.02       | 0.00       | 2.78      | PSM 35838             | 3.619              |
| Dunwich                           | 27 30             | 153 24            | +0 11           | +0 16          | 2.15      | 1.76      | 0.75      | 0.37      | 1.22     | 0.99       | 0.00       | 2.70      | PSM 744               | 22.28              |
| Raby Bay (Canals Entrance)        | 27 30             | 153 16            | +0 02           | +0 02          | 2.27      | 1.86      | 0.81      | 0.41      | 1.32     | 1.03       | +0.03      | 2.84      | PSM 18473             | 7.61               |
| Tingalpa Creek (Mouth)            | 27 28             | 153 13            | +0 02           | +0 06          | 2.34      | 1.92      | 0.82      | 0.40      |          | 1.08       | 0.00       | 2.95      | PSM 61242             | 7.858              |
| Wellington Point                  | 27 28             | 153 14            | -0 06           | -0 03          | 2.26      | 1.85      | 0.79      | 0.38      | 1.26     | 1.04       | 0.00       | 2.84      | PSM 61259             | 3.84               |
| Lota                              | 27 28             | 153 11            | +0 02           | +0 07          | 2.24      | 1.83      | 0.78      | 0.38      | 1.27     | 1.03       | 0.00       | 2.81      | PSM 46486             | 4.731              |
| Huybers Light                     | 27 27             | 153 15            | +0 12           | +0 03          | 2.17      | 1.78      | 0.76      | 0.37      | 1.26     | 1.00       | 0.00       | 2.73      |                       |                    |
| Manly                             | 27 27             | 153 11            | +0 02           | +0 07          | 2.24      | 1.83      | 0.78      | 0.38      | 1.27     | 1.03       | 0.00       | 2.81      | PSM 46486             | 4.731              |
| D'Arcy Light                      | 27 26             | 153 12            | +0 02           | +0 07          | 2.17      | 1.78      | 0.76      | 0.37      | 1.26     | 1.00       | 0.00       | 2.73      |                       |                    |
| Rous Light                        | 27 24             | 153 20            | +0 09           | +0 06          | 2.17      | 1.78      | 0.76      | 0.37      | 1.21     | 1.00       | 0.00       | 2.73      |                       |                    |
| Amity Point                       | 27 24             | 153 26            | -0 40           | -0 54          | 1.78      | 1.46      | 0.62      | 0.30      | 1.09     | 0.82       | 0.00       | 2.24      | PSM 19602             | 4.579              |
| Saint Helena (South)              | 27 24             | 153 13            | +0 00           | +0 00          | 2.28      | 1.87      | 0.80      | 0.39      | 1.32     | 1.05       | 0.00       | 2.87      |                       |                    |
| Nudgee Beach                      | 27 21             | 153 06            | +0 01           | -0 01          | 2.08      | 1.71      | 0.73      | 0.36      | 1.19     | 0.96       | 0.00       | 2.62      | PSM 26032             | 16.137             |
| Cabbage Tree Creek (Mouth)        | 27 20             | 153 06            | +0 01           | -0 01          | 2.08      | 1.71      | 0.73      | 0.36      | 1.19     | 0.96       | 0.00       | 2.62      | PSM 26032             | 16.137             |
| Shorncliffe and Sandgate          | 27 20             | 153 05            | +0 01           | -0 01          | 2.08      | 1.71      | 0.73      | 0.36      | 1.19     | 0.96       | 0.00       | 2.62      | PSM 26032             | 16.137             |
| Woody Point                       | 27 16             | 153 06            | +0 00           | +0 02          | 2.06      | 1.69      | 0.72      | 0.35      | 1.15     | 0.95       | 0.00       | 2.59      | PSM 4726              | 3.328              |
| Measured Mile-Rear Recip. Lead    | 27 15             | 153 15            | -0 25           | -0 23          | 2.04      | 1.67      | 0.71      | 0.35      | 1.14     | 0.94       | 0.00       | 2.57      |                       |                    |
| Margate                           | 27 15             | 153 07            | +0 00           | +0 02          | 2.06      | 1.69      | 0.72      | 0.35      | 1.15     | 0.95       | 0.00       | 2.59      | PSM 4726              | 3.328              |
| Redcliffe                         | 27 14             | 153 07            | +0 00           | +0 00          | 2.08      | 1.71      | 0.73      | 0.36      | 1.11     | 0.96       | 0.00       | 2.62      |                       |                    |
| East Channel                      | 27 14             | 153 20            | -0 09           | -0 13          | 2.06      | 1.69      | 0.72      | 0.35      | 1.20     | 0.95       | 0.00       | 2.59      |                       |                    |
| Scarborough Boat Harbour          | 27 12             | 153 06            | +0 05           | +0 05          | 1.93      | 1.58      | 0.68      | 0.33      | 1.11     | 0.89       | 0.00       | 2.43      | PSM 4830              | 3.279              |
| Tangalooma                        | 27 11             | 153 22            | -0 23           | -0 27          | 2.00      | 1.65      | 0.73      | 0.38      | 1.15     | 0.90       | +0.05      | 2.51      | PSM 90765             | 3.885              |
| Beachmere(Caboolture River)       | 27 08             | 153 02            | +0 06           | +0 18          | 2.08      | 1.71      | 0.73      | 0.36      | 1.21     | 0.96       | 0.00       | 2.62      | PSM 25095             | 5.416              |
| Bulwer Wrecks                     | 27 05             | 153 22            | -0 25           | -0 30          | 1.76      | 1.44      | 0.62      | 0.30      | 1.02     | 0.81       | 0.00       | 2.21      |                       |                    |
| North West Channel Fairway        | 26 51             | 153 09            | -1 30           | -1 40          | 1.63      | 1.34      | 0.57      | 0.28      | 0.95     | 0.75       | 0.00       | 2.05      | PSM 3067              | 2.215              |
| <b>North Pine River -</b>         |                   |                   |                 |                |           |           |           |           |          |            |            |           |                       |                    |
| Deepwater Bend                    | 27 18             | 153 02            | +0 13           | +0 41          | 2.17      | 1.78      | 0.78      | 0.40      | 1.28     | 0.98       | +0.04      | 2.72      | PSM 57820             | 2.937              |
| Petrie                            | 27 17             | 152 58            | +0 24           | +0 52          | 2.26      | 1.85      | 0.79      | 0.38      | 1.27     | 1.04       | 0.00       | 2.84      |                       |                    |
| <b>Pumicestone Passage-Bribie</b> |                   |                   |                 |                |           |           |           |           |          |            |            |           |                       |                    |
| Bribie Beacon (South Point)       | 27 06             | 153 09            | -0 09           | -0 13          | 1.91      | 1.57      | 0.69      | 0.36      | 1.09     | 0.86       | +0.04      | 2.39      |                       |                    |
| Bongaree                          | 27 05             | 153 09            | +0 00           | -0 15          | 1.87      | 1.53      | 0.65      | 0.32      | 1.06     | 0.86       | 0.00       | 2.35      | PSM 42071             | 3.011              |
| Woorim                            | 27 05             | 153 12            | -0 22           | -0 34          | 1.71      | 1.41      | 0.60      | 0.29      | 0.93     | 0.79       | 0.00       | 2.16      |                       |                    |
| Toorbul                           | 27 02             | 153 06            | +0 30           | +0 20          | 1.95      | 1.60      | 0.68      | 0.33      | 1.13     | 0.90       | 0.00       | 2.46      | PSM 37601             | 2.412              |
| Donnybrook                        | 27 00             | 153 04            | +1 00           | +0 56          | 1.88      | 1.55      | 0.69      | 0.35      | 1.11     | 0.85       | +0.04      | 2.36      | PSM 37601             | 2.412              |
| Hussey Creek (Mouth)              | 26 56             | 153 04            | +2 04           | +2 56          | 1.35      | 1.04      | 0.40      | 0.32      |          |            |            | 1.80      |                       |                    |
| The Skids                         | 26 54             | 153 04            | +1 48           | +2 05          | 0.98      | 0.66      | 0.28      | 0.14      | 0.51     |            |            | 1.38      | PSM 60521             | 2.006              |
| Halls Creek (Mouth) 'The Farm'    | 26 52             | 153 07            | +0 47           | +1 33          | 0.87      | 0.62      |           |           | 0.59     |            |            | 1.21      | PSM 60364             | 1.614              |
| Golden Beach (Caloundra)          | 26 48             | 153 07            | -0 53           | -0 11          | 1.12      | 0.82      | 0.43      | 0.32      | 0.77     |            |            | 1.52      | PSM 60531             | 2.195              |

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| Place                                | Latitude<br>South | Longitude<br>East | Time Difference      |          | MHWS<br>3   | MHWN<br>4   | MLWN<br>5   | MLWS<br>6   | MSL<br>8    | Ratio<br>9  | Cons<br>10  | HAT<br>11   | Permanent Mark<br>No. | Reference<br>Level |
|--------------------------------------|-------------------|-------------------|----------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--------------------|
|                                      |                   |                   | 1<br>H M             | 2<br>H M |             |             |             |             |             |             |             |             |                       |                    |
| <b>Tidal Datum Epoch 1992 - 2011</b> |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| <b>Mooloolaba</b>                    | <b>26 41</b>      | <b>153 08</b>     | <b>Standard Port</b> |          | <b>1.66</b> | <b>1.33</b> | <b>0.58</b> | <b>0.26</b> | <b>0.96</b> | <b>1.00</b> | <b>0.00</b> | <b>2.17</b> | <b>PSM 14102</b>      | <b>3.131</b>       |
| Caloundra Head                       | 26 48             | 153 09            | +0 00                | +0 00    | 1.63        | 1.34        | 0.57        | 0.28        | 0.95        |             |             | 2.05        | PSM 3067              | 2.215              |
| Parrearra (Mooloolah River)          | 26 43             | 153 07            | +0 23                | +0 44    | 1.56        | 1.25        | 0.55        | 0.24        |             | 0.94        | 0.00        | 2.04        | PSM 14109             | 3.639              |
| Mooloolaba Beach                     | 26 41             | 153 06            | +0 00                | +0 00    | 1.66        | 1.33        | 0.58        | 0.26        | 0.97        | 1.00        | 0.00        | 2.17        | PSM 14102             | 3.131              |
| Maroochydhore Beach                  | 26 40             | 153 06            | +0 00                | +0 00    | 1.66        | 1.33        | 0.58        | 0.26        | 0.97        | 1.00        | 0.00        | 2.17        | PSM 14102             | 3.131              |
| Coolum                               | 26 31             | 153 06            | +0 00                | +0 00    | 1.66        | 1.33        | 0.58        | 0.26        | 0.97        | 1.00        | 0.00        | 2.17        | PSM 14102             | 3.131              |
| <b>Maroochy River -</b>              |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| Picnic Point                         | 26 39             | 153 05            | +1 02                | +1 52    | 0.93        | 0.65        | 0.27        | 0.13        | 0.52        |             |             | 1.36        | PSM 37146             | 1.59               |
| David Low Bridge                     | 26 38             | 153 03            | +1 35                | +2 27    | 0.90        | 0.66        | 0.30        | 0.19        | 0.53        |             |             | 1.28        | PSM 15585             | 5.03               |
| Dunethin Rock                        | 26 35             | 153 02            | +2 09                | +3 06    | 1.03        | 0.78        | 0.28        | 0.15        | 0.53        |             |             | 1.41        | PSM 37140             | 2.744              |
| Junction North Maroochy River        | 26 34             | 152 58            | +2 18                | +3 12    | 1.15        | 0.88        | 0.34        | 0.22        | 0.60        |             |             | 1.57        | PSM 41257             | 7.179              |
| <b>Noosa Head</b>                    | <b>26 23</b>      | <b>153 06</b>     | <b>Standard Port</b> |          | <b>1.78</b> | <b>1.45</b> | <b>0.71</b> | <b>0.38</b> | <b>1.08</b> | <b>1.00</b> | <b>0.00</b> | <b>2.28</b> | <b>PSM 19728</b>      | <b>3.781</b>       |
| <b>Noosa River -</b>                 |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| Munna Point                          | 26 24             | 153 04            | +0 42                | +1 35    | 0.84        | 0.71        | 0.41        | 0.28        | 0.45        | 0.40        | +0.13       | 1.04        | PSM 18419             | 1.818              |
| Tewantin                             | 26 24             | 153 02            | +1 07                | +1 49    | 0.64        | 0.54        | 0.31        | 0.21        | 0.38        | 0.31        | +0.09       | 0.80        | PSM 50386             | 1.226              |
| <b>Noosa Beaches -</b>               |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| Noosa Beach                          | 26 23             | 153 05            | +0 00                | +0 00    | 1.78        | 1.45        | 0.71        | 0.38        | 1.06        | 1.00        | 0.00        | 2.28        |                       |                    |
| Teewah Sands                         | 26 16             | 153 04            | +0 00                | +0 00    | 1.78        | 1.45        | 0.71        | 0.38        | 1.06        | 1.00        | 0.00        | 2.28        |                       |                    |
| Cooloola                             | 26 11             | 153 04            | +0 00                | +0 00    | 1.78        | 1.45        | 0.71        | 0.38        | 1.06        | 1.00        | 0.00        | 2.28        |                       |                    |
| Double Island Point                  | 25 55             | 153 11            | +0 00                | +0 00    | 1.78        | 1.45        | 0.71        | 0.38        | 1.06        | 1.00        | 0.00        | 2.28        |                       |                    |
| Rainbow Beach                        | 25 54             | 153 05            | +0 00                | +0 00    | 1.78        | 1.45        | 0.71        | 0.38        | 1.06        | 1.00        | 0.00        | 2.28        |                       |                    |
| <b>Waddy Point (Fraser Island)</b>   | <b>24 58</b>      | <b>153 21</b>     | <b>Standard Port</b> |          | <b>1.75</b> | <b>1.45</b> | <b>0.81</b> | <b>0.50</b> | <b>1.13</b> | <b>1.00</b> | <b>0.00</b> | <b>2.37</b> | <b>NMV/B/417</b>      | <b>3.165</b>       |
| Wide Bay Bar (Ocean Side)            | 25 49             | 153 03            | +0 00                | +0 00    |             |             |             |             |             |             |             |             |                       |                    |
| Eurong                               | 25 30             | 153 07            | +0 00                | +0 00    |             |             |             |             |             |             |             |             |                       |                    |
| Happy Valley                         | 25 20             | 153 12            | +0 00                | +0 00    |             |             |             |             |             |             |             |             |                       |                    |
| Indian Head                          | 25 00             | 153 22            | +0 00                | +0 00    |             |             |             |             |             |             |             |             |                       |                    |
| Orchid Beach                         | 24 58             | 153 19            | +0 00                | +0 00    |             |             |             |             |             |             |             |             |                       |                    |
| <b>Urangan</b>                       | <b>25 18</b>      | <b>152 55</b>     | <b>Standard Port</b> |          | <b>3.49</b> | <b>2.80</b> | <b>1.38</b> | <b>0.68</b> | <b>2.09</b> | <b>1.00</b> | <b>0.00</b> | <b>4.28</b> | <b>PSM 11028</b>      | <b>5.835</b>       |
| Kingfisher Bay                       | 25 24             | 153 06            | +0 11                | +0 18    | 3.73        | 3.00        | 1.48        | 0.73        | 2.26        | 1.07        | 0.00        | 4.58        |                       |                    |
| <b>Bundaberg (Burnett Heads)</b>     | <b>24 46</b>      | <b>152 23</b>     | <b>Standard Port</b> |          | <b>2.88</b> | <b>2.30</b> | <b>1.14</b> | <b>0.56</b> | <b>1.72</b> | <b>1.00</b> | <b>0.00</b> | <b>3.67</b> | <b>PSM 3853</b>       | <b>6.061</b>       |
| <b>Great Sandy Strait -</b>          |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| Tin Can Bay (Snapper Creek)          | 25 54             | 153 00            | +0 44                | -0 16    | 2.31        | 1.84        | 0.91        | 0.45        | 1.36        | 0.80        | 0.00        | 2.94        | PSM 18448             | 2.907              |
| Elbow Point                          | 25 48             | 153 01            | +0 15                | -0 03    | 2.14        | 1.71        | 0.85        | 0.42        | 1.28        | 0.74        | 0.01        | 2.73        | PSM 110774            | 3.45               |
| Snout Point                          | 25 42             | 152 59            | +0 55                | +0 29    | 2.34        | 1.86        | 0.92        | 0.45        | 1.39        | 0.81        | 0.00        | 2.97        |                       |                    |
| Big Tuan                             | 25 41             | 152 53            | +0 55                | +1 05    | 2.16        | 1.73        | 0.86        | 0.42        | 1.37        | 0.75        | 0.00        | 2.75        | PSM 58832             | 3.084              |
| Boonoroo                             | 25 39             | 152 54            | +0 55                | +1 05    | 2.16        | 1.73        | 0.86        | 0.42        | 1.37        | 0.75        | 0.00        | 2.75        | PSM 58832             | 3.084              |
| Boonlye Point                        | 25 34             | 152 56            | +1 09                | +0 57    | 3.14        | 2.51        | 1.24        | 0.61        | 1.89        | 1.09        | 0.00        | 4.00        |                       |                    |
| Ungowa Jetty                         | 25 30             | 152 59            | +0 51                | +0 49    | 3.83        | 3.06        | 1.52        | 0.74        | 2.39        | 1.33        | 0.00        | 4.88        |                       |                    |
| <b>Mary River -</b>                  |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| Bingham (River Heads)                | 25 26             | 152 55            | +1 13                | +1 11    | 3.70        | 3.05        | 1.19        | 0.64        | 2.17        |             |             | 4.60        |                       |                    |
| Baumgarts                            | 25 30             | 152 44            | +2 00                | +3 10    | 3.30        | 2.56        | 0.62        | 0.31        |             |             |             | 4.39        |                       |                    |
| Maryborough                          | 25 33             | 152 43            | +1 57                | +3 00    | 3.22        | 2.55        | 0.53        | 0.14        |             |             |             | 4.10        | PSM 10003A            | 10.826             |
| Copenhagen Bend                      | 25 31             | 152 39            | +2 46                | +3 53    | 3.24        | 2.50        | 0.37        | 0.22        |             |             |             | 4.22        |                       |                    |
| Barrage                              | 25 37             | 152 37            | +3 03                | +5 09    | 2.92        | 2.24        | 0.18        | 0.09        |             |             |             | 3.79        |                       |                    |

### Note:

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# Semidiurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place                           | Latitude<br>South | Longitude<br>East | Time Difference      |         | MHWS<br>3   | MHWN<br>4   | MLWN<br>5   | MLWS<br>6   | MSL<br>8    | Ratio<br>9  | Cons<br>10  | HAT<br>11   | Permanent Mark<br>No. | Reference<br>Level |
|---------------------------------|-------------------|-------------------|----------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--------------------|
|                                 |                   |                   | HW<br>1              | LW<br>2 |             |             |             |             |             |             |             |             |                       |                    |
| Tidal Datum Epoch 1992 - 2011   |                   |                   |                      |         |             |             |             |             |             |             |             |             |                       |                    |
|                                 |                   |                   |                      |         |             |             |             |             |             |             |             |             |                       |                    |
| Bundaberg (Burnett Heads) cont. |                   |                   |                      |         |             |             |             |             |             |             |             |             |                       |                    |
| Hervey Bay -                    |                   |                   |                      |         |             |             |             |             |             |             |             |             |                       |                    |
| Point Vernon                    | 25 15             | 152 48            | -0 10                | -0 10   | 3.23        | 2.58        | 1.28        | 0.63        | 1.90        | 1.12        | 0.00        | 4.11        |                       |                    |
| Burrum Heads                    | 25 11             | 152 37            | +0 12                | +0 30   | 3.05        | 2.42        | 1.17        | 0.54        | 1.78        | 1.08        | -0.06       | 3.90        | PSM 51102             | 7.533              |
| Woodgate (Theodolite Creek)     | 25 04             | 152 33            | -0 15                | -0 15   | 3.06        | 2.44        | 1.21        | 0.59        | 1.78        | 1.06        | 0.00        | 3.89        |                       |                    |
| Wathumba Creek (Fraser Island)  | 24 58             | 153 14            | -0 12                | +0 36   | 3.06        | 2.44        | 1.21        | 0.59        | 1.86        | 1.06        | 0.00        | 3.89        |                       |                    |
| Elliott River Entrance          | 24 55             | 152 30            | -0 09                | -0 09   | 2.96        | 2.35        | 1.13        | 0.52        | 1.73        | 1.05        | -0.07       | 3.78        | PSM 50438             | 14.394             |
| Burnett River (Town Reach)      | 24 52             | 152 21            | +0 32                | +0 57   | 3.17        | 2.53        | 1.25        | 0.62        | 1.83        | 1.10        | 0.00        | 4.04        | PSM 10004             | 13.875             |
| Bargara                         | 24 49             | 152 27            | +0 00                | +0 00   | 2.88        | 2.30        | 1.14        | 0.56        | 1.73        | 1.00        | 0.00        | 3.67        | PSM 3853              | 6.061              |
| Kolan River (Booyan Bridge)     | 24 42             | 152 11            | +0 23                | +1 30   | 2.57        | 2.05        | 1.01        | 0.50        | 1.51        | 0.89        | 0.00        | 3.27        |                       |                    |
| Baffle Creek (Winfield)         | 24 32             | 152 02            | +1 05                | +1 56   | 2.22        | 1.74        | 1.02        | 1.02        | 1.56        |             |             | 2.83        | PSM 75197             | 3.383              |
| Lady Elliot Island              | 24 07             | 152 43            | -0 21                | -0 21   | 2.07        | 1.64        | 0.78        | 0.35        | 1.19        | 0.74        | -0.06       | 2.66        | PSM 72773             | 3.834              |
| <b>Gladstone</b>                | <b>23 50</b>      | <b>151 15</b>     | <b>Standard Port</b> |         | <b>3.96</b> | <b>3.11</b> | <b>1.57</b> | <b>0.72</b> | <b>2.34</b> | <b>1.00</b> | <b>0.00</b> | <b>4.83</b> | <b>PSM 10855</b>      | <b>5.66</b>        |
| Seventeen Seventy               | 24 11             | 151 53            | -0 35                | -0 22   | 2.77        | 2.18        | 1.10        | 0.50        | 1.60        | 0.70        | 0.00        | 3.38        | PSM 90971             | 5.457              |
| Pancake Creek                   | 24 01             | 151 44            | -0 35                | -0 35   | 2.97        | 2.33        | 1.18        | 0.54        | 1.74        | 0.75        | 0.00        | 3.62        |                       |                    |
| 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   | 3.45        | 2.71        | 1.37        | 0.63        | 2.08        | 0.87        | 0.00        | 4.20        | PSM 50434             | 5.318              |
| South Trees Wharf               | 23 51             | 151 19            | -0 11                | -0 10   | 3.80        | 2.99        | 1.51        | 0.69        | 2.20        | 0.96        | 0.00        | 4.63        | PSM 2168              | 7.728              |
| Fishermans Landing              | 23 47             | 151 11            | +0 15                | +0 12   | 4.20        | 3.30        | 1.66        | 0.76        | 2.41        | 1.06        | 0.00        | 5.11        | PSM 59976             | 24.318             |
| Graham Creek                    | 23 45             | 151 11            | +0 19                | +0 10   | 4.36        | 3.42        | 1.73        | 0.79        | 2.58        | 1.10        | 0.00        | 5.31        | PSM 189409            | 5.232              |
| The Narrows (Boat Creek)        | 23 39             | 151 06            | +0 31                | +0 26   | 4.58        | 3.59        | 1.79        | 0.79        | 2.68        | 1.17        | -0.05       | 5.60        |                       |                    |
| The Narrows (Ramsay Crossing)   | 23 38             | 151 05            | +0 19                | +0 22   | 5.08        | 4.01        | 2.07        | 1.00        | 3.01        | 1.26        | 0.09        | 6.17        | PSM 70858             | 11.417             |
| Sea Hill                        | 23 30             | 150 59            | -0 01                | -0 07   | 4.47        | 3.51        | 1.77        | 0.81        | 2.63        | 1.13        | 0.00        | 5.45        | 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   | 2.69        | 2.09        | 0.99        | 0.39        | 1.46        | 0.71        | -0.12       | 3.31        | PSM 61221             | 4.431              |
| Rockhampton                     | 23 23             | 150 31            | +1 23                | +2 31   | 5.18        | 4.16        | 1.63        | 0.95        | 2.86        |             |             | 6.42        | PSM 1299              | 10.564             |
| 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   | 4.16        | 3.27        | 1.65        | 0.76        | 2.43        | 1.05        | 0.00        | 5.07        |                       |                    |
| Cape Manifold                   | 22 41             | 150 50            | +0 17                | +0 29   | 4.36        | 3.42        | 1.73        | 0.79        | 2.52        | 1.10        | 0.00        | 5.31        | 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         |                       |                    |
| <b>Port Alma</b>                | <b>23 35</b>      | <b>150 52</b>     | <b>Standard Port</b> |         | <b>4.93</b> | <b>3.83</b> | <b>1.98</b> | <b>0.88</b> | <b>2.90</b> | <b>1.00</b> | <b>0.00</b> | <b>5.98</b> | <b>PSM 22966</b>      | <b>6.706</b>       |
| <b>Rosslyn Bay</b>              | <b>23 10</b>      | <b>150 48</b>     | <b>Standard Port</b> |         | <b>4.23</b> | <b>3.24</b> | <b>1.60</b> | <b>0.62</b> | <b>2.42</b> | <b>1.00</b> | <b>0.00</b> | <b>5.14</b> | <b>PSM 47784</b>      | <b>6.64</b>        |
| <b>Hay Point</b>                | <b>21 16</b>      | <b>149 18</b>     | <b>Standard Port</b> |         | <b>5.80</b> | <b>4.48</b> | <b>2.25</b> | <b>0.94</b> | <b>3.37</b> | <b>1.00</b> | <b>0.00</b> | <b>7.14</b> | <b>PSM 38627</b>      | <b>18.04</b>       |
| 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   | 5.67        | 4.42        | 2.30        | 1.05        | 3.34        | 0.95        | 0.16        | 6.94        | PSM 172414            | 9.607              |
| Cullen Islet                    | 21 25             | 149 29            | -0 03                | -0 03   | 6.09        | 4.70        | 2.36        | 0.99        | 3.51        | 1.05        | 0.00        | 7.50        |                       |                    |
| 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         |                       |                    |
| <b>Mackay Outer Harbour</b>     | <b>21 06</b>      | <b>149 14</b>     | <b>Standard Port</b> |         | <b>5.29</b> | <b>4.07</b> | <b>1.96</b> | <b>0.74</b> | <b>3.02</b> | <b>1.00</b> | <b>0.00</b> | <b>6.58</b> | <b>PSM 20035</b>      | <b>10.595</b>      |
| Thirsty Sound                   | 22 08             | 150 02            | -0 26                | -0 37   | 6.08        | 4.68        | 2.25        | 0.85        | 3.45        | 1.15        | 0.00        | 7.57        |                       |                    |
| Keswick Island                  | 20 55             | 149 26            | -0 03                | +0 04   | 4.71        | 3.62        | 1.74        | 0.66        | 2.69        | 0.89        | 0.00        | 5.86        | PSM 76219             | 7.739              |
| Halliday Bay                    | 20 54             | 148 59            | +0 09                | +0 23   | 4.87        | 3.74        | 1.80        | 0.68        | 2.65        | 0.92        | 0.00        | 6.05        |                       |                    |
| Finlayson Point                 | 20 53             | 148 56            | +0 20                | +0 20   | 5.40        | 4.15        | 2.00        | 0.75        | 3.07        | 1.02        | 0.00        | 6.71        | PSM 62350             | 11.728             |
| Carlisle Island                 | 20 47             | 149 17            | +0 02                | -0 02   | 4.44        | 3.42        | 1.65        | 0.62        | 2.53        | 0.84        | 0.00        | 5.53        |                       |                    |
| Laguna Quays Marina             | 20 36             | 148 40            | +0 30                | +0 25   | 4.83        | 3.72        | 1.80        | 0.69        | 2.74        | 0.91        | +0.02       | 6.01        | PSM 29116             | 15.786             |

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# Semidiurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place                         | Latitude<br>South | Longitude<br>East | Time Difference      |          | MHWS<br>3   | MHWN<br>4   | MLWN<br>5   | MLWS<br>6   | MSL<br>8    | Ratio<br>9  | Cons<br>10  | HAT<br>11   | Permanent Mark<br>No. | Reference<br>Level |
|-------------------------------|-------------------|-------------------|----------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--------------------|
|                               |                   |                   | HW                   | LW       |             |             |             |             |             |             |             |             |                       |                    |
|                               |                   |                   | 1<br>H M             | 2<br>H M |             |             |             |             |             |             |             |             |                       |                    |
| Tidal Datum Epoch 1992 - 2011 |                   |                   |                      |          |             |             |             |             |             |             |             |             |                       |                    |
| <b>Bugatti Reef</b>           | <b>20 05</b>      | <b>150 18</b>     | <b>Standard Port</b> |          | <b>2.6</b>  | <b>2.0</b>  | <b>1.1</b>  | <b>0.5</b>  | <b>1.56</b> |             |             | <b>3.5</b>  |                       |                    |
| Rib Reef                      | 18 28             | 146 52            | -0.45                | -0.45    | 2.8         | 1.9         | 1.4         | 0.6         | 1.68        |             |             | 3.6         |                       |                    |
| Cato Island                   | 23 15             | 155 32            | -2.03                | -2.03    | 1.6         | 1.3         | 0.7         | 0.3         | 0.99        |             |             | 2.2         |                       |                    |
| Creal Reef                    | 20 32             | 150 22            | +0.20                | +0.20    | 3.2         | 2.5         | 1.1         | 0.4         | 1.80        |             |             | 4.1         |                       |                    |
| <b>Shute Harbour</b>          | <b>20 17</b>      | <b>148 47</b>     | <b>Standard Port</b> |          | <b>3.30</b> | <b>2.57</b> | <b>1.27</b> | <b>0.54</b> | <b>1.92</b> | <b>1.00</b> | <b>0.00</b> | <b>4.33</b> | <b>PSM 8295</b>       | <b>5.103</b>       |
| 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    | 3.78        | 2.95        | 1.49        | 0.66        | 2.32        | 1.13        | +0.05       | 4.94        | PSM 102646            | 4.255              |
| Hamilton Island               | 20 21             | 148 57            | +0.02                | +0.02    | 3.80        | 2.97        | 1.51        | 0.68        | 2.10        | 1.13        | +0.07       | 4.96        | PSM 52214             | 8.565              |
| Abel Point (Airlie Beach)     | 20 16             | 148 43            | -0.07                | -0.06    | 3.00        | 2.34        | 1.16        | 0.49        | 1.75        | 0.91        | 0.00        | 3.94        | PSM 96453             | 6.024              |
| 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    | 3.26        | 2.55        | 1.29        | 0.58        | 1.89        | 0.97        | +0.06       | 4.26        | PSM 50460             | 13.517             |
| Hayman Island                 | 20 04             | 148 53            | -0.24                | -0.24    | 3.3         | 2.6         | 1.3         | 0.6         | 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         |                       |                    |
| <b>Bowen</b>                  | <b>20 01</b>      | <b>148 15</b>     | <b>Standard Port</b> |          | <b>2.83</b> | <b>2.21</b> | <b>1.31</b> | <b>0.67</b> | <b>1.76</b> | <b>1.00</b> | <b>0.00</b> | <b>3.73</b> | <b>PSM 10009</b>      | <b>8.689</b>       |
| <b>Abbot Point</b>            | <b>19 51</b>      | <b>148 05</b>     | <b>Standard Port</b> |          | <b>2.70</b> | <b>2.07</b> | <b>1.30</b> | <b>0.67</b> | <b>1.69</b> | <b>1.00</b> | <b>0.00</b> | <b>3.60</b> | <b>PSM 66022</b>      | <b>8.74</b>        |
| Oyster Rocks (Burdekin River) | 19 44             | 147 35            | -0.03                | +0.32    | 2.54        | 1.95        | 1.22        | 0.63        | 1.59        | 0.94        | 0.00        | 3.38        | PSM 50442             | 4.88               |
| <b>Cape Ferguson</b>          | <b>19 17</b>      | <b>147 03</b>     | <b>Standard Port</b> |          | <b>2.89</b> | <b>2.09</b> | <b>1.49</b> | <b>0.67</b> | <b>1.76</b> | <b>1.00</b> | <b>0.00</b> | <b>3.84</b> | <b>PSM 74/09*</b>     | <b>10.890</b>      |
| <b>Townsville</b>             | <b>19 15</b>      | <b>146 50</b>     | <b>Standard Port</b> |          | <b>3.11</b> | <b>2.26</b> | <b>1.63</b> | <b>0.77</b> | <b>1.94</b> | <b>1.00</b> | <b>0.00</b> | <b>4.11</b> | <b>PSM 10011</b>      | <b>9.025</b>       |
| Rocky Ponds Creek             | 19 50             | 147 39            | +0.58                | +1.14    | 2.47        | 1.93        | 1.23        | 0.70        | 1.50        |             |             | 3.38        | PSM 50575             | 12.429             |
| Cape Ferguson                 | 19 17             | 147 03            | +0.00                | -0.01    | 2.89        | 2.09        | 1.49        | 0.67        | 1.76        | 0.95        | -0.06       | 3.84        | PSM 74/09*            | 10.89              |
| Cape Pallarenda               | 19 11             | 146 47            | +0.02                | +0.03    | 3.14        | 2.28        | 1.65        | 0.78        |             | 1.01        | 0.00        | 4.15        | PSM 39449             | 22.969             |
| Magnetic Island               | 19 09             | 146 52            | +0.06                | +0.02    | 2.99        | 2.17        | 1.56        | 0.74        | 1.91        | 0.96        | 0.00        | 3.95        | NMV/B/501             | 4.123              |
| Townsville Fairway Beacon     | 19 08             | 146 54            | -0.04                | -0.06    | 2.99        | 2.17        | 1.56        | 0.74        | 1.86        | 0.96        | 0.00        | 3.95        |                       |                    |
| Britomart Reef                | 18 15             | 146 43            | -0.15                | -0.20    | 2.67        | 1.94        | 1.40        | 0.66        | 1.69        | 0.86        | 0.00        | 3.53        | 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    | 2.31        | 1.72        | 1.28        | 0.69        | 1.48        | 0.69        | +0.16       | 3.00        |                       |                    |
| <b>Lucinda (Offshore)</b>     | <b>18 31</b>      | <b>146 23</b>     | <b>Standard Port</b> |          | <b>2.98</b> | <b>2.18</b> | <b>1.60</b> | <b>0.80</b> | <b>1.89</b> | <b>1.00</b> | <b>0.00</b> | <b>3.96</b> | <b>H&amp;M BM 14</b>  | <b>5.543</b>       |
| 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    | 3.16        | 2.31        | 1.70        | 0.85        | 1.94        | 1.06        | 0.00        | 4.20        | PSM 10019             | 7.514              |
| <b>Clump Point</b>            | <b>17 51</b>      | <b>146 06</b>     | <b>Standard Port</b> |          | <b>2.72</b> | <b>2.01</b> | <b>1.49</b> | <b>0.79</b> | <b>1.73</b> | <b>1.00</b> | <b>0.00</b> | <b>3.62</b> | <b>PSM 25794</b>      | <b>6.648</b>       |
| <b>Mourilyan Harbour</b>      | <b>17 36</b>      | <b>146 07</b>     | <b>Standard Port</b> |          | <b>2.65</b> | <b>1.98</b> | <b>1.49</b> | <b>0.83</b> | <b>1.74</b> | <b>1.00</b> | <b>0.00</b> | <b>3.50</b> | <b>PSM 4855</b>       | <b>5.037</b>       |
| Nathan Reef                   | 17 32             | 146 30            | -0.07                | -0.04    | 2.39        | 1.78        | 1.34        | 0.74        | 1.61        | 0.90        | 0.00        | 3.15        |                       |                    |
| Innisfail                     | 17 31             | 146 02            | +0.25                | +0.55    | 1.97        | 1.31        | 0.83        | 0.18        | 1.06        | 0.98        | -0.63       | 2.80        | PSM 10015             | 9.507              |
| Flying Fish Point             | 17 30             | 146 05            | +0.05                | +0.15    | 2.62        | 1.96        | 1.48        | 0.82        | 1.69        | 0.99        | 0.00        | 3.47        | PSM 7049              | 4.122              |
| Pearl Reef                    | 17 29             | 146 25            | -0.08                | -0.02    | 2.52        | 1.88        | 1.42        | 0.78        | 1.64        | 0.95        | 0.00        | 3.33        |                       |                    |
| <b>Cairns</b>                 | <b>16 56</b>      | <b>145 47</b>     | <b>Standard Port</b> |          | <b>2.62</b> | <b>1.94</b> | <b>1.46</b> | <b>0.78</b> | <b>1.70</b> | <b>1.00</b> | <b>0.00</b> | <b>3.50</b> | <b>PSM 96052</b>      | <b>5.008</b>       |
| Saxon Reef                    | 16 28             | 145 59            | +0.17                | +0.11    | 2.30        | 1.70        | 1.28        | 0.68        |             | 0.88        | 0.00        | 3.08        | PSM 85865             | -2.74              |
| Low Islets                    | 16 23             | 145 34            | +0.00                | +0.00    | 2.43        | 1.80        | 1.36        | 0.72        | 1.55        | 0.93        | 0.00        | 3.25        | PSM 76300             | 4.784              |
| Cooktown                      | 15 28             | 145 15            | -0.02                | +0.06    | 2.41        | 1.78        | 1.34        | 0.71        | 1.49        | 0.92        | 0.00        | 3.22        | PSM 20031             | 9.211              |
| Cape Flattery                 | 14 57             | 145 19            | -0.10                | -0.10    | 2.33        | 1.72        | 1.30        | 0.69        | 1.48        | 0.89        | 0.00        | 3.11        | 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    | 2.62        | 1.94        | 1.46        | 0.78        | 1.63        | 1.00        | 0.00        | 3.50        | PSM BM54              | 2.813              |
| Cape Grenville                | 11 58             | 143 16            | +0.51                | +0.51    | 2.6         | 1.8         | 1.3         | 0.5         | 1.53        |             |             | 3.3         |                       |                    |

### Note:

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# Semidiurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place                         | Latitude     | Longitude     | Time Difference      |       | MHWS        | MHWN        | MLWN        | MLWS        | MSL         | Ratio       | Cons        | HAT         | Permanent Mark No. | Reference Level |
|-------------------------------|--------------|---------------|----------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-----------------|
|                               | South        | East          | HW                   | LW    |             |             |             |             |             |             |             |             |                    |                 |
| Tidal Datum Epoch 1992 - 2011 |              |               | 1                    | 2     | 3           | 4           | 5           | 6           | 8           | 9           | 10          | 11          |                    |                 |
|                               |              |               | H M                  | H M   | m           | m           | m           | m           | m           |             | m           | m           |                    |                 |
| <b>Port Douglas</b>           | <b>16 29</b> | <b>145 28</b> | <b>Standard Port</b> |       | <b>2.49</b> | <b>1.83</b> | <b>1.37</b> | <b>0.70</b> | <b>1.60</b> | <b>1.00</b> | <b>0.00</b> | <b>3.36</b> | <b>PSM 10077</b>   | <b>6.058</b>    |
| <b>Leggatt Island</b>         | <b>14 32</b> | <b>144 51</b> | <b>Standard Port</b> |       |             |             |             |             | <b>1.70</b> | <b>1.00</b> | <b>0.00</b> | <b>3.4</b>  |                    |                 |
| Normanby River                | 14 26        | 144 09        | +0 05                | +0 05 | 2.5         | 1.6         | 1.2         | 0.3         | 1.39        |             |             | 3.4         |                    |                 |
| Flinders Island               | 14 10        | 144 14        | +0 11                | +0 11 | 2.5         | 1.7         | 1.4         | 0.6         | 1.52        |             |             | 3.3         |                    |                 |
| 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         | 1.93        |             |             | 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         | 1.78        |             |             | 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.

# Diurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place                         | Latitude     | Longitude     | Time Difference      |       | MHHW        | MLHW        | MHLW        | MLLW        | MSL         | Ratio       | Cons        | HAT         | Permanent Mark No. | Reference Level |
|-------------------------------|--------------|---------------|----------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-----------------|
|                               | South        | East          | HW                   | LW    |             |             |             |             |             |             |             |             |                    |                 |
| Tidal Datum Epoch 1992 - 2011 |              |               | 1                    | 2     | 3           | 4           | 5           | 6           | 8           | 9           | 10          | 11          |                    |                 |
|                               |              |               | H M                  | H M   | m           | m           | m           | m           | m           |             | m           | m           |                    |                 |
| <b>Shute Harbour</b>          | <b>20 17</b> | <b>148 47</b> | <b>Standard Port</b> |       |             |             |             |             | <b>1.92</b> | <b>1.00</b> | <b>0.00</b> | <b>4.33</b> | <b>PSM 8295</b>    | <b>5.103</b>    |
| Molle Island                  | 20 15        | 148 50        | -0 01                | -0 01 | 3.5         | 2.2         | 1.5         | 0.2         | 1.81        |             |             | 4.1         |                    |                 |
| <b>Bugatti Reef</b>           | <b>20 05</b> | <b>150 18</b> | <b>Standard Port</b> |       |             |             |             |             | <b>1.56</b> | <b>1.00</b> | <b>0.00</b> | <b>3.5</b>  | <b>PSM BM1</b>     | <b>2.33</b>     |
| 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         |                    |                 |
| <b>Townsville</b>             | <b>19 15</b> | <b>146 50</b> | <b>Standard Port</b> |       |             |             |             |             | <b>1.94</b> | <b>1.00</b> | <b>0.00</b> | <b>4.11</b> | <b>PSM 10011</b>   | <b>9.025</b>    |
| Unnamed Reef No2              | 19 37        | 149 50        | -0 03                | -0 03 | 2.5         | 1.6         | 1.3         | 0.4         | 1.48        |             |             | 3.2         |                    |                 |
| 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         | 1.7         | 1.5         | 0.5         | 1.58        |             |             | 3.3         |                    |                 |
| <b>Mourilyan Harbour</b>      | <b>17 36</b> | <b>146 07</b> | <b>Standard Port</b> |       | <b>2.79</b> | <b>1.85</b> | <b>1.63</b> | <b>0.69</b> | <b>1.74</b> | <b>1.00</b> | <b>0.00</b> | <b>3.50</b> | <b>PSM 4855</b>    | <b>5.037</b>    |
| South Barnard Island          | 17 44        | 146 09        | -0 05                | -0 05 | 2.7         | 1.7         | 1.5         | 0.6         | 1.62        |             |             | 3.4         |                    |                 |
| <b>Cairns</b>                 | <b>16 56</b> | <b>145 47</b> | <b>Standard Port</b> |       | <b>2.74</b> | <b>1.81</b> | <b>1.58</b> | <b>0.65</b> | <b>1.70</b> | <b>1.00</b> | <b>0.00</b> | <b>3.50</b> | <b>PSM 96052</b>   | <b>5.008</b>    |
| 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         | PS 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 74753          | 4.08            |
| Palm Cove                     | 16 44        | 145 40        | -0 07                | -0 07 | 2.5         | 1.6         | 1.4         | 0.5         | 1.52        |             |             | 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 39        | 145 27        | -0 09                | -0 09 | 2.31        | 1.50        | 1.30        | 0.50        | 1.40        | 0.87        | -0.07       | 2.98        | PSM 72386          | 3.535           |

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# Semidiurnal Tidal Planes - 2021

## Height above lowest astronomical tide

| Place                          | Latitude     | Longitude     | Time Difference      |       | MHWS        | MHWN        | MLWN        | MLWS        | MSL         | Ratio       | Cons        | HAT         | Permanent Mark No.   | Reference Level |
|--------------------------------|--------------|---------------|----------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|-----------------|
|                                | South        | East          | HW                   | LW    |             |             |             |             |             |             |             |             |                      |                 |
| Tidal Datum Epoch 1992 - 2011  |              |               | 1                    | 2     | 3           | 4           | 5           | 6           | 8           | 9           | 10          | 11          |                      |                 |
|                                |              |               | H M                  | H M   | m           | m           | m           | m           | m           |             | m           | m           |                      |                 |
| <b>Port Douglas</b>            | <b>16 29</b> | <b>145 28</b> | <b>Standard Port</b> |       | <b>2.62</b> | <b>1.70</b> | <b>1.49</b> | <b>0.58</b> | <b>1.60</b> | <b>1.00</b> | <b>0.00</b> | <b>3.36</b> | <b>PSM 10077</b>     | <b>6.058</b>    |
| East Hope Island               | 15 44        | 145 28        | -0 11                | -0 11 | 2.5         | 1.5         | 1.4         | 0.4         | 1.47        |             |             | 3.1         |                      |                 |
| <b>Leggatt Island</b>          | <b>14 32</b> | <b>144 51</b> | <b>Standard Port</b> |       | <b>2.7</b>  | <b>1.8</b>  | <b>1.6</b>  | <b>0.7</b>  | <b>1.70</b> | <b>1.00</b> | <b>0.00</b> | <b>3.4</b>  |                      |                 |
| 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         | 1.6         | 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        |             |             | 3.1         |                      |                 |
| 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           |
| Restoration Island             | 12 38        | 143 27        | +0 12                | +0 12 | 2.4         | 1.4         | 1.3         | 0.4         | 1.36        |             |             | 2.9         |                      |                 |
| Piper Island                   | 12 15        | 143 14        | +0 18                | +0 18 | 2.7         | 1.7         | 1.5         | 0.4         | 1.58        |             |             | 3.3         |                      |                 |
| 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         |                      |                 |
| <b>Twin Island</b>             | <b>10 28</b> | <b>142 26</b> | <b>Standard Port</b> |       | <b>2.97</b> | <b>1.97</b> | <b>1.51</b> | <b>0.51</b> | <b>1.74</b> | <b>1.00</b> | <b>0.00</b> | <b>3.80</b> | <b>PSM NMV/B/463</b> | <b>2.99</b>     |
| <b>Thursday Island</b>         | <b>10 35</b> | <b>142 13</b> | <b>Standard Port</b> |       | <b>3.07</b> | <b>2.36</b> | <b>1.38</b> | <b>0.68</b> | <b>1.87</b> | <b>1.00</b> | <b>0.00</b> | <b>3.86</b> | <b>PSM 10078</b>     | <b>6.375</b>    |
| 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 3931             | 4.675           |
| <b>Goods Island</b>            | <b>10 34</b> | <b>142 09</b> | <b>Standard Port</b> |       | <b>3.72</b> | <b>2.67</b> | <b>1.59</b> | <b>0.54</b> | <b>2.13</b> | <b>1.00</b> | <b>0.00</b> | <b>4.07</b> | <b>PSM NMV/B/477</b> | <b>5.33</b>     |
| <b>Booby Island</b>            | <b>10 36</b> | <b>141 55</b> | <b>Standard Port</b> |       | <b>4.24</b> | <b>2.81</b> | <b>2.01</b> | <b>0.58</b> | <b>2.41</b> | <b>1.00</b> | <b>0.00</b> | <b>4.31</b> | <b>PSM BM1</b>       | <b>10.773</b>   |
| Crab Island                    | 10 58        | 142 07        | -0 12                | -0 12 | 3.7         | 2.4         | 1.7         | 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        |             |             | 4.3         |                      |                 |
| Merauke                        | 08 29        | 140 24        | -2 50                | -2 50 | 5.5         | 3.2         | 2.9         | 0.6         | 3.04        |             |             | 5.7         |                      |                 |
| <b>Weipa (Humbug Point)</b>    | <b>12 40</b> | <b>141 52</b> | <b>Standard Port</b> |       | <b>2.95</b> | <b>2.21</b> | <b>1.46</b> | <b>0.72</b> | <b>1.83</b> | <b>1.00</b> | <b>0.00</b> | <b>3.38</b> | <b>PSM 15094</b>     | <b>7.287</b>    |
| Aurukun (Archer River)         | 13 22        | 141 43        | +0 14                | +0 23 | 2.33        | 1.75        | 1.15        | 0.57        | 1.50        | 0.79        | 0.00        | 2.67        | PSM 101552           | 8.209           |
| 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 | 3.13        | 2.34        | 1.55        | 0.76        | 1.87        | 1.06        | 0.00        | 3.58        | PSM 83515            | 7.807           |
| <b>Amrun (Boyd Point)</b>      | <b>12 55</b> | <b>141 38</b> | <b>Standard Port</b> |       | <b>2.73</b> | <b>2.17</b> | <b>1.36</b> | <b>0.80</b> | <b>1.76</b> | <b>1.00</b> | <b>0.00</b> | <b>3.09</b> | <b>PSM 182173</b>    | <b>9.947</b>    |
| <b>Karumba</b>                 | <b>17 30</b> | <b>140 50</b> | <b>Standard Port</b> |       | <b>3.77</b> | <b>3.38</b> | <b>0.83</b> | <b>0.45</b> | <b>2.11</b> | <b>1.00</b> | <b>0.00</b> | <b>4.88</b> | <b>PSM 10222</b>     | <b>6.808</b>    |
| 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 | 3.71        | 3.33        | 0.86        | 0.49        | 2.06        | 0.97        | +0.05       | 4.78        |                      |                 |
| <b>Mornington Island</b>       | <b>16 40</b> | <b>139 10</b> | <b>Standard Port</b> |       | <b>3.12</b> | <b>2.84</b> | <b>1.09</b> | <b>0.81</b> | <b>1.96</b> | <b>1.00</b> | <b>0.00</b> | <b>3.87</b> | <b>RM(3)</b>         | <b>4.894</b>    |

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

### Note:

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