

# TIDES : DAILY HIGH AND LOW WATERS

Station.....TAMMALUNG.....Month.....NOVEMBER.....Year...2017.....

| Date        | HIGH WATER  |        |            |        | Moon's<br>Phase | Date     | LOW WATER   |        |            |        | Remark |
|-------------|-------------|--------|------------|--------|-----------------|----------|-------------|--------|------------|--------|--------|
|             | Higher H.W. |        | Lower H.W. |        |                 |          | Higher L.W. |        | Lower L.W. |        |        |
|             | Time        | Height | Time       | Height |                 |          | Time        | Height | Time       | Height |        |
|             | h           | m      | meter      | h      |                 |          | m           | meter  | h          | m      |        |
| 1           | 2210        | 3.52   | 0930       | 3.24   |                 | 1        | 0340        | 1.68   | 1550       | 1.35   |        |
| 2           | 2300        | 3.74   | 1010       | 3.52   |                 | 2        | 0440        | 1.40   | 1700       | 1.12   |        |
| 3           | 2330        | 3.94   | 1100       | 3.64   |                 | 3        | 0530        | 1.24   | 1720       | 0.99   |        |
| 4           | 1140        | 3.71   | -          | -      | ☉               | 4        | 0600        | 1.01   | 1800       | 0.86   |        |
| 5           | 0010        | 4.00   | 1210       | 3.78   |                 | 5        | 1840        | 0.88   | 0630       | 0.88   |        |
| 6           | 0040        | 4.08   | 1240       | 3.70   |                 | 6        | 1920        | 1.00   | 0720       | 0.92   |        |
| 7           | 0013        | 4.03   | 1330       | 3.54   |                 | 7        | 1940        | 1.21   | 0750       | 1.00   |        |
| 8           | 0150        | 3.84   | 1400       | 3.32   |                 | 8        | 2010        | 1.39   | 0810       | 1.12   |        |
| 9           | 0210        | 3.65   | 1505       | 3.13   |                 | 9        | 2030        | 1.72   | 0840       | 1.41   |        |
| 10          | 0300        | 3.38   | 1605       | 2.90   |                 | 10       | 2120        | 2.00   | 0930       | 1.64   |        |
| 11          | 0340        | 3.08   | 1740       | 2.74   | ☾               | 11       | 2340        | 2.24   | 1150       | 1.84   |        |
| 12          | 1940        | 2.88   | 0530       | 2.87   |                 | 12       | -           | -      | 1320       | 1.80   |        |
| 13          | 2050        | 3.10   | 0720       | 2.92   |                 | 13       | 0230        | 2.14   | 1430       | 1.66   |        |
| 14          | 2120        | 3.40   | 0810       | 3.06   |                 | 14       | 0340        | 1.92   | 1520       | 1.52   |        |
| 15          | 2200        | 3.53   | 1000       | 3.28   |                 | 15       | 0410        | 1.64   | 1550       | 1.30   |        |
| 16          | 2240        | 3.70   | 1010       | 3.38   |                 | 16       | 0430        | 1.44   | 1630       | 1.29   |        |
| 17          | 2310        | 3.77   | 1050       | 3.47   |                 | 17       | 0520        | 1.28   | 1700       | 1.26   |        |
| 18          | 2350        | 3.86   | 1120       | 3.50   | ●               | 18       | 1750        | 1.24   | 0530       | 1.24   |        |
| 19          | 1200        | 3.54   | -          | -      |                 | 19       | 1810        | 1.31   | 0630       | 1.20   |        |
| 20          | 0200        | 3.88   | 1230       | 3.52   |                 | 20       | 1830        | 1.36   | 0700       | 1.17   |        |
| 21          | 0050        | 3.88   | 1300       | 3.48   |                 | 21       | 1910        | 1.44   | 0700       | 1.26   |        |
| 22          | 0130        | 3.80   | 1340       | 3.41   |                 | 22       | 1935        | 1.52   | 0735       | 1.34   |        |
| 23          | 0130        | 3.70   | 1340       | 3.28   |                 | 23       | 1940        | 1.63   | 0750       | 1.40   |        |
| 24          | 0150        | 3.58   | 1410       | 3.08   |                 | 24       | 2000        | 1.84   | 0810       | 1.52   |        |
| 25          | 0230        | 3.37   | 1450       | 2.92   |                 | 25       | 2000        | 1.97   | 0840       | 1.64   |        |
| 26          | 0300        | 3.14   | 1600       | 2.70   |                 | 26       | 2140        | 2.16   | 0910       | 1.79   |        |
| 27          | 0340        | 2.90   | 1800       | 2.72   | ☽               | 27       | -           | -      | 1130       | 1.93   |        |
| 28          | 1950        | 2.87   | 0600       | 2.80   |                 | 28       | 0055        | 2.22   | 1250       | 1.78   |        |
| 29          | 2030        | 3.19   | 0730       | 2.88   |                 | 29       | 0200        | 2.04   | 1400       | 1.64   |        |
| 30          | 2140        | 3.46   | 0845       | 3.12   |                 | 30       | 0330        | 1.91   | 1450       | 1.50   |        |
| 31          |             |        |            |        |                 | 31       |             |        |            |        |        |
| Monthly     |             |        |            |        |                 | Monthly  |             |        |            |        |        |
| Sum         |             | 106.52 |            | 89.9   |                 | Sum      |             | 44.83  |            | 41.37  |        |
| Mean        |             |        |            |        |                 | Mean     |             |        |            |        |        |
| mean MSL    |             |        |            |        |                 | mean MSL |             |        |            |        |        |
| H'est HW    | =           | 4.080  |            |        |                 | L'est LW | =           | 0.860  |            |        |        |
| MHHW        | =           | 3.551  |            |        |                 | MLLW     | =           | 1.379  |            |        |        |
| MLHW        | =           | 3.211  |            |        |                 | MHLW     | =           | 1.601  |            |        |        |
| MHW         | =           | 3.387  |            |        |                 | MLW      | =           | 1.486  |            |        |        |
| M.S.L.      | =           | 2.425  |            |        |                 | M.T.L.   | =           | 2.436  |            |        |        |
| MHWS        | =           | 3.742  |            |        |                 | MLWS     | =           | 1.115  |            |        |        |
| MHWN        | =           | 2.942  |            |        |                 | MLWN     | =           | 1.920  |            |        |        |
| Mn.sp.range | =           | 2.627  |            |        |                 | Sp.range |             |        |            |        |        |
| Mn.np.range | =           | 1.022  |            |        |                 | Np.range |             |        |            |        |        |
| Mn.range    | =           | 1.900  |            |        |                 |          |             |        |            |        |        |