## **BONGAO**, TAWI-TAWI

LAT 05° 02'N LONG 119° 46'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

September		October		November		December	
Time Ht.	Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht.	Time Ht.	Time Ht.	Time Ht.	Time Ht. h. min. m.
1 00 18 -0.30	16 00 30 -0.18 SAT 06 36 1.30 13 04 -0.13 18 56 1.24	1 01 00 -0.35 sun 06 50 1.29 12 50 -0.18 19 03 1.57	16 00 55 -0.21 MON 06 36 1.10 12 22 -0.11 18 38 1.52	1 02 20 -0.14 WED 07 30 0.78 12 43 -0.15 19 31 1.52	<b>16</b> 02 09 -0.13 <b>THU</b> 07 22 0.74 12 33 -0.12 19 14 1.59	1 03 00 -0.01 FRI 07 57 0.63 12 57 -0.10 19 51 1.39	16 03 05 -0.09 SAT 08 09 0.66 13 09 -0.07 20 03 1.55
2 01 05 -0.34 SAT 07 15 1.48 13 48 -0.21 19 38 1.33	<b>17</b> 01 03 -0.19 <b>SUN</b> 07 00 1.24 13 15 -0.12 19 16 1.32	<b>2</b> 01 43 -0.30 <b>MON</b> 07 21 1.13 13 06 -0.16 19 33 1.57	<b>17</b> 01 29 -0.20 <b>TUE</b> 07 03 1.02 12 39 -0.12 19 02 1.55	<b>2</b> 02 58 0.00 <b>THU</b> 07 58 0.69 13 09 -0.11 20 00 1.38	<b>17</b> 02 52 -0.04 <b>FRI</b> 07 57 0.67 13 03 -0.07 19 52 1.50	2 03 36 0.08 SAT 08 32 0.62 13 30 -0.01 20 24 1.27	<b>17</b> 03 46 -0.01 <b>SUN</b> 08 51 0.68 13 51 0.01 20 49 1.44
3 01 50 -0.31 SUN 07 48 1.32 14 03 -0.17 20 09 1.39	18 01 36 -0.17 MON 07 24 1.16 13 25 -0.10 19 37 1.36	3 02 24 -0.19 TUE 07 50 0.97 13 22 -0.14 20 01 1.50	<b>18</b> 02 03 -0.13 WED 07 30 0.92 12 58 -0.11 19 28 1.52	3 03 37 0.14 FRI 08 27 0.62 13 37 -0.03 20 30 1.23	18 03 39 0.08 SAT 08 35 0.60 13 34 0.01 20 37 1.38	3 04 12 0.17 SUN 09 12 0.62 14 06 0.11 21 00 1.15	<b>18</b> 04 26 0.08 MON 09 38 0.72 14 42 0.13 21 39 1.30
<b>4</b> 02 34 -0.21 <b>MON</b> 08 18 1.14 14 17 -0.11 20 39 1.38	<b>19</b> 02 08 -0.11 TUE 07 49 1.06 13 38 -0.08 19 59 1.36	<b>4</b> 03 03 -0.03 <b>WED</b> 08 16 0.82 13 40 -0.09 20 29 1.36	<b>19</b> 02 38 -0.03 <b>THU</b> 07 57 0.81 13 18 -0.07 19 58 1.45	<b>4</b> 04 23 0.27 <b>SAT</b> 09 00 0.56 14 06 0.10 21 08 1.07	19 04 36 0.20 SUN 09 21 0.54 14 11 0.14 21 35 1.23	<b>4</b> 04 55 0.25 <b>MON</b> 10 01 0.61 14 46 0.26 21 44 1.03	<b>19</b> 05 05 0.16 <b>TUE</b> 10 33 0.77 15 47 0.27 22 34 1.14
	<b>20</b> 02 39 -0.02 WED 08 13 0.95 13 52 -0.05 20 24 1.33	5 03 42 0.15 THU 08 39 0.69 14 00 -0.02 20 57 1.20	<b>20</b> 03 17 0.11 FRI 08 24 0.69 13 41 0.00 20 34 1.33	5 05 39 0.37 SUN 09 47 0.49	<b>20</b> 05 51 0.27 MON 10 36 0.52	5 05 48 0.31 TUE 11 12 0.62 © 15 42 0.41 © 22 47 0.90	<b>20</b> 05 45 0.22 WED 11 40 0.85
6 04 00 0.13 WED 09 09 0.76 14 45 0.00 21 45 1.16	<b>21</b> 03 12 0.10 THU 08 36 0.81 14 09 0.01 20 56 1.24	6 04 29 0.32 FRI 08 56 0.57	21 04 08 0.26 SAT 08 50 0.56 14 03 0.10 21 24 1.18	6 07 51 0.38 MON 12 18 0.47 15 22 0.43	<b>21</b> 07 12 0.29 TUE 12 39 0.59 17 16 0.45	6 06 51 0.33 WED 12 54 0.69 17 44 0.53	<b>21</b> 06 30 0.25 <b>THU</b> 13 00 0.96 19 26 0.42
7 04 52 0.32 THU 09 24 0.59 © 15 01 0.08 22 34 0.99	<b>22</b> 03 52 0.25 FRI 08 54 0.66 14 27 0.08 21 39 1.12	7 06 20 0.45 SAT 08 46 0.47 14 41 0.22 23 24 0.85	<b>22</b> 05 56 0.38 <b>SUN</b> 09 17 0.44	<b>7</b> 01 11 0.85 <b>TUE</b> 09 05 0.31 15 07 0.62 20 04 0.50	<b>22</b> 00 45 1.01 WED 08 12 0.26 14 16 0.78 20 06 0.39	<b>7</b> 00 30 0.80 <b>THU</b> 07 50 0.32 14 19 0.82 20 33 0.49	<b>22</b> 01 02 0.80 FRI 07 19 0.25 14 17 1.10 21 25 0.33
	<b>23</b> 05 04 0.41 sat 08 50 0.50 14 38 0.17 23 06 0.99	<b>8</b> 11 15 0.34 sun	<b>23</b> 09 27 0.32	<b>8</b> 02 44 0.89 WED 09 40 0.24 15 42 0.81 21 31 0.36	<b>23</b> 02 12 0.99 <b>THU</b> 08 54 0.20 15 11 1.02 21 33 0.23	<b>8</b> 02 13 0.76 <b>FRI</b> 08 34 0.29 15 06 0.98 21 55 0.34	<b>23</b> 02 30 0.70 <b>SAT</b> 08 12 0.22 15 18 1.24 22 48 0.19
	<b>24</b> 12 59 0.27 sun	9 02 50 0.89 MON 10 38 0.24 16 18 0.56 20 59 0.41	<b>24</b> 01 39 1.03 TUE 09 54 0.22 15 37 0.62 20 30 0.38	9 03 33 0.95 THU 10 04 0.17 16 08 0.98 22 18 0.21	<b>24</b> 03 16 0.97 FRI 09 27 0.13 15 52 1.24 22 36 0.07	9 03 21 0.75 SAT 09 09 0.23 15 39 1.14 22 48 0.19	<b>24</b> 03 46 0.64 sun 09 03 0.16 16 09 1.36 23 48 0.06
10 03 22 0.94 SUN 11 31 0.16 16 48 0.47 21 03 0.33	<b>25</b> 02 01 1.02 <b>1</b> 100 11 09 0.16 16 42 0.48 20 30 0.37	<b>10</b> 03 45 1.00 TUE 10 51 0.14 16 30 0.74 21 56 0.25	<b>25</b> 03 00 1.13 WED 10 15 0.12 16 01 0.86 21 44 0.17	<b>10</b> 04 11 0.98 FRI 10 23 0.11 16 30 1.15 22 58 0.07	<b>25</b> 04 08 0.94 sat 09 57 0.06 16 30 1.43 23 29 -0.06	10 04 09 0.74 sun 09 39 0.16 16 10 1.30 23 33 0.05	<b>25</b> 04 45 0.61 MON 09 50 0.09 16 54 1.45
11 04 17 1.06 MON 11 42 0.05 17 02 0.61 22 03 0.18	<b>26</b> 03 28 1.18 TUE 11 18 0.03 16 45 0.67 21 49 0.16	11 04 21 1.10 WED 11 09 0.06 16 52 0.91 22 35 0.11	<b>26</b> 03 53 1.21 THU 10 36 0.04 16 30 1.11 22 38 -0.02	11 04 43 0.99 SAT 10 41 0.06 16 53 1.31 23 36 -0.05	<b>26</b> 04 53 0.88 sun 10 26 -0.01 17 06 1.55	<b>11</b> 04 51 0.73 <b>MON</b> 10 10 0.08 16 42 1.44	<b>26</b> 00 35 -0.05 TUE 05 33 0.60 10 32 0.01 17 34 1.50
12 04 51 1.18 TUE 12 00 -0.04 17 25 0.76 22 44 0.04	<b>27</b> 04 20 1.34 <b>VED</b> 11 36 -0.06 17 07 0.89 22 42 -0.05	<b>12</b> 04 50 1.17 THU 11 26 0.00 17 14 1.07 23 11 -0.02	<b>27</b> 04 36 1.24 FRI 10 57 -0.03 17 00 1.34 23 26 -0.17	12 05 14 0.98 sun 10 58 0.00 17 15 1.45	<b>27</b> 00 18 -0.15 <b>MON</b> 05 34 0.81 10 54 -0.07 17 41 1.61	<b>12</b> 00 15 -0.07 <b>TUE</b> 05 31 0.71 10 42 0.00 17 18 1.55	<b>27</b> 01 16 -0.11 WED 06 14 0.61 11 10 -0.05 18 12 1.52
13 05 20 1.26 WED 12 18 -0.11 17 49 0.90 23 20 -0.07	<b>28</b> 05 02 1.44 THU 11 55 -0.13 17 34 1.12 23 30 -0.22	<b>13</b> 05 17 1.20 <b>FRI</b> 11 41 -0.04 17 35 1.22 23 46 -0.12	<b>28</b> 05 15 1.21 <b>SAT</b> 11 18 -0.09 17 32 1.52	13 00 13 -0.14 MON 05 45 0.94 11 18 -0.06 17 41 1.55	<b>28</b> 01 03 -0.18 <b>TUE</b> 06 12 0.75 11 24 -0.12 18 14 1.61	13 00 58 -0.14 WED 06 10 0.69 11 16 -0.07 17 55 1.63	<b>28</b> 01 52 -0.13 <b>THU</b> 06 51 0.63 11 47 -0.10 18 47 1.51
14 05 46 1.32 THU 12 36 -0.14 18 12 1.03 23 55 -0.14	29 05 40 1.46 FRI 12 15 -0.17 18 03 1.33	<b>14</b> 05 43 1.20 <b>SAT</b> 11 54 -0.07 17 55 1.34	<b>29</b> 00 12 -0.26 <b>sun</b> 05 52 1.13 1 38 -0.13 1 8 03 1.63	<b>14</b> 00 51 -0.19 TUE 06 16 0.88 11 41 -0.10 18 09 1.62	<b>29</b> 01 45 -0.16 WED 06 48 0.69 11 53 -0.14 18 47 1.57	<b>14</b> 01 40 -0.17 <b>THU</b> 06 49 0.67 11 52 -0.11 18 35 1.65	<b>29</b> 02 24 -0.11 FRI 07 25 0.67 12 23 -0.11 19 19 1.47
15 06 12 1.33 FRI 12 51 -0.14 18 35 1.14	30 00 15 -0.32 SAT 06 16 1.41 12 33 -0.18 18 33 1.49	15 00 21 -0.18 sun 06 09 1.16 12 08 -0.09 18 16 1.45	<b>30</b> 00 57 -0.28 <b>MON</b> 06 27 1.01 11 59 -0.15 18 33 1.66	<b>15</b> 01 30 -0.18 WED 06 49 0.82 12 06 -0.12 18 40 1.63	<b>30</b> 02 24 -0.10 THU 07 23 0.65 12 24 -0.14 19 18 1.49	<b>15</b> 02 23 -0.15 <b>FRI</b> 07 28 0.66 12 29 -0.11 19 18 1.62	<b>30</b> 02 54 -0.06 <b>SAT</b> 07 59 0.71 12 58 -0.08 19 50 1.42
			31 01 40 -0.24 TUE 06 59 0.89 12 21 -0.16 19 03 1.62				31 03 19 0.00 sun 08 31 0.76 13 35 -0.01 20 20 1.34

TIME MERIDIAN 120 DEG. EAST. 0000 IS MIDNIGHT, 1200 IS NOON

HEIGHTS ARE IN METERS AND RECKONED FROM THE DATUM OF SOUNDINGS ON CHARTS OF THE LOCALITY WHICH IS MEAN LOWER LOW WATER