## **BALANACAN, MARINDUQUE**

LAT 13° 32'N LONG 121° 52'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

January		February		March		April	
Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht.	Time Ht.	Time Ht. h. min. m.	Time Ht.	Time Ht.	Time Ht.
1 00 39 0 40	<b>16</b> 04 14 0.67 MON 10 15 0.21 17 28 0.98	1 03 40 -0.04 WED 19 48 1.19	<b>16</b> 02 40 -0.08 THU 18 37 1.30	1 01 28 0.10 WED 17 04 1.13	<b>16</b> 00 21 0.00 THU 16 12 1.35	1 03 26 0.01 SAT 19 56 1.10	16 03 03 -0.07 SUN 19 57 1.32
<b>2</b> 02 31 0.22 MON 08 09 0.50 12 08 0.39 19 45 1.18	<b>17</b> 01 10 0.25 <b>TUE</b> 06 22 0.47 10 37 0.33 18 27 1.11	<b>2</b> 04 30 -0.20 <b>THU</b> 20 51 1.27	<b>17</b> 03 54 -0.29 <b>FRI</b> 20 09 1.44	<b>2</b> 03 23 -0.02 <b>THU</b> 18 57 1.11	<b>17</b> 02 30 -0.11 FRI 18 04 1.32	2 04 03 -0.03 SUN 11 35 0.83 15 20 0.72 21 07 1.18	<b>17</b> 03 45 -0.05 <b>MON</b> 10 25 0.89 15 02 0.61 21 15 1.36
3 03 42 0.01 TUE 20 30 1.28	<b>18</b> 02 50 0.01 <b>WED</b> 19 29 1.27	<b>3</b> 05 06 -0.31 <b>FRI</b> 21 41 1.35	<b>18</b> 04 46 -0.44 <b>SAT</b> 21 20 1.59	<b>3</b> 04 12 -0.13 <b>FRI</b> 20 31 1.17	18 03 40 -0.23 SAT 20 03 1.40	<b>3</b> 04 31 -0.03 <b>MON</b> 11 15 0.86 15 58 0.56 21 55 1.25	<b>18</b> 04 18 0.03 <b>TUE</b> 10 28 1.02 16 00 0.36 22 12 1.36
<b>4</b> 04 30 -0.17 <b>WED</b> 11 47 0.52 13 27 0.51 21 12 1.38	<b>19</b> 03 55 -0.24 THU 20 28 1.45	<b>4</b> 05 38 -0.36 <b>SAT</b> 12 59 0.57 15 15 0.54 22 23 1.43	19 05 29 -0.52 SUN 12 30 0.56 14 51 0.51 22 18 1.71	4 04 46 -0.21 SAT 12 40 0.70 14 53 0.67 21 30 1.27	19 04 27 -0.30 SUN 11 51 0.70 14 14 0.67 21 20 1.52	<b>4</b> 04 54 0.00 <b>TUE</b> 11 11 0.92 16 31 0.40 22 35 1.28	<b>19</b> 04 45 0.13 WED 10 44 1.17 16 49 0.15 23 03 1.29
5 THU 05 10 -0.30 14 13 0.52 21 51 1.46	<b>20</b> 04 48 -0.44 <b>FRI</b> 21 23 1.63	5 06 06 -0.38 SUN 12 54 0.56 16 05 0.46 23 00 1.48	<b>20</b> 06 06 -0.51 MON 12 29 0.59 16 10 0.37 23 10 1.75	5 05 15 -0.24 SUN 12 12 0.69 15 50 0.56 22 15 1.36	<b>20</b> 05 03 -0.30 MON 11 29 0.75 15 42 0.47 22 18 1.58	5 05 13 0.05 WED 11 17 1.02 17 04 0.24 23 10 1.27	<b>20</b> 05 06 0.24 THU 11 04 1.33 17 34 -0.02 23 48 1.17
6 05 45 -0.38 FRI 13 03 0.53 14 55 0.51 22 27 1.51	21 05 36 -0.58 SAT 13 14 0.48 13 54 0.48 22 16 1.76	6 06 32 -0.36 MON 12 57 0.58 16 46 0.38 23 34 1.50	<b>21</b> 06 39 -0.43 TUE 12 42 0.66 17 12 0.23 23 57 1.70	6 05 39 -0.23 MON 12 06 0.71 16 28 0.43 22 51 1.41	<b>21</b> 05 34 -0.23 TUE 11 36 0.85 16 39 0.27 23 08 1.57	6 05 30 0.12 THU 11 29 1.14 17 38 0.11 23 45 1.21	<b>21</b> 05 23 0.34 FRI 11 29 1.48 18 18 -0.13
7 06 18 -0.42 SAT 13 22 0.51 15 36 0.48 23 02 1.55	22 06 21 -0.63 SUN 13 16 0.47 15 23 0.43 23 06 1.83	<b>7</b> 06 55 -0.31 <b>TUE</b> 13 06 0.62 17 25 0.31	<b>22</b> 07 08 -0.30 WED 13 00 0.79 18 08 0.12	7 06 00 -0.19 TUE 12 09 0.77 17 03 0.32 23 25 1.42	<b>22</b> 06 00 -0.11 WED 11 52 0.99 17 29 0.09 23 53 1.47	<b>7</b> 05 45 0.19 <b>FRI</b> 11 46 1.27 18 14 -0.01	<b>22</b> 00 31 1.02 <b>SAT</b> 05 37 0.41 11 55 1.59 19 01 -0.17
8 06 49 -0.41 SUN 13 37 0.50 16 16 0.44 23 36 1.55	<b>23</b> 07 03 -0.60 MON 13 33 0.48 16 33 0.36 23 56 1.82	<b>8</b> 00 06 1.48 WED 07 16 -0.26 13 18 0.69 18 05 0.26	<b>23</b> 00 41 1.56 <b>THU</b> 07 31 -0.16 13 24 0.93 19 01 0.05	8 06 19 -0.14 WED 12 18 0.85 17 38 0.21 23 57 1.38	<b>23</b> 06 21 0.02 THU 12 13 1.15 18 17 -0.03	8 00 21 1.12 SAT 06 00 0.25 12 06 1.39 18 53 -0.09	<b>23</b> 01 14 0.87 <b>SUN</b> 05 48 0.46 12 23 1.64 19 44 -0.17
9 07 18 -0.37 MON 13 51 0.51 16 57 0.41	<b>24</b> 07 40 -0.51 TUE 13 53 0.53 17 39 0.30	9 00 37 1.41 THU 07 36 -0.20 13 36 0.78 18 45 0.22	<b>24</b> 01 23 1.35 <b>FRI</b> 07 50 -0.02 13 51 1.07 19 53 0.02	9 06 36 -0.08 THU 12 33 0.95 18 14 0.12	<b>24</b> 00 35 1.31 FRI 06 39 0.13 12 37 1.29 19 03 -0.10	9 01 00 0.99 SUN 06 12 0.32 12 30 1.49 19 34 -0.14	<b>24</b> 01 58 0.73 MON 05 56 0.49 12 51 1.65 20 27 -0.13
<b>10</b> 00 09 1.53 <b>TUE</b> 07 44 -0.32 14 07 0.54 17 39 0.39	<b>25</b> 00 43 1.72 WED 08 12 -0.37 14 17 0.63 18 43 0.25	<b>10</b> 01 08 1.31 <b>FRI</b> 07 54 -0.13 13 59 0.87 19 27 0.19	<b>25</b> 02 02 1.10 <b>SAT</b> 08 04 0.10 1.18 20 48 0.04	<b>10</b> 00 29 1.30 FRI 06 53 -0.01 12 51 1.06 18 51 0.06	<b>25</b> 01 15 1.10 <b>SAT</b> 06 52 0.23 13 03 1.40 19 50 -0.11	<b>10</b> 01 41 0.85 <b>MON</b> 06 23 0.39 12 57 1.57 20 20 -0.15	<b>25</b> 02 49 0.62 TUE 05 58 0.52 13 20 1.60 21 14 -0.06
11 00 41 1.47 WED 08 09 -0.26 14 27 0.59 18 24 0.38	<b>26</b> 01 28 1.53 THU 08 40 -0.21 14 45 0.76 19 47 0.23	11 01 41 1.17 SAT 08 12 -0.05 14 24 0.95 20 15 0.18	<b>26</b> 02 41 0.84 sun 08 13 0.19 14 49 1.23 21 48 0.08	11 01 01 1.18 SAT 07 08 0.06 13 12 1.17 19 32 0.01	<b>26</b> 01 54 0.89 sun 07 03 0.30 13 31 1.46 20 38 -0.08	11 02 31 0.69 TUE 06 29 0.44 13 27 1.61 21 15 -0.12	<b>26</b> 04 07 0.54 WED 05 35 0.54 13 48 1.52 22 09 0.03
<b>12</b> 01 13 1.38 THU 08 33 -0.19 14 51 0.65 19 11 0.39	<b>27</b> 02 12 1.29 <b>FRI</b> 09 03 -0.06 15 16 0.89 20 53 0.24	<b>12</b> 02 17 1.00 <b>sun</b> 08 30 0.05 14 51 1.03 21 12 0.17	<b>27</b> 03 24 0.59 MON 08 13 0.27 15 23 1.23 23 10 0.13	<b>12</b> 01 36 1.03 <b>sun</b> 07 22 0.14 13 36 1.26 20 17 -0.01	<b>27</b> 02 36 0.69 <b>MON</b> 07 06 0.36 13 59 1.45 21 30 -0.01	<b>12</b> 03 42 0.54 WED 06 19 0.48 14 00 1.60 22 30 -0.07	<b>27</b> 14 18 1.40 THU 23 22 0.11
13 01 46 1.25 FRI 08 58 -0.12 15 21 0.72 20 06 0.41	<b>28</b> 02 55 1.01 <b>SAT</b> 09 21 0.08 15 52 0.99 22 09 0.26	13 03 00 0.78 MON 08 44 0.16 15 24 1.10 22 30 0.16	<b>28</b> 04 33 0.38 TUE 07 42 0.32 16 03 1.19	<b>13</b> 02 16 0.85 <b>MON</b> 07 33 0.23 14 03 1.33 21 10 -0.01	<b>28</b> 03 27 0.52 TUE 06 58 0.40 14 27 1.40 22 37 0.06	13 14 42 1.53 THU	28 14 55 1.27 FRI
14 02 23 1.09 SAT 09 24 -0.02 15 57 0.80 21 15 0.41	<b>29</b> 03 42 0.72 sun 09 32 0.20 16 34 1.06 23 52 0.24	<b>14</b> 04 01 0.54 <b>TUE</b> 08 49 0.27 ( 16 06 1.16		14 03 04 0.64 TUE 07 38 0.32 14 33 1.37 22 23 0.01	<b>29</b> 14 58 1.31	<b>14</b> 00 17 -0.03 FRI 15 48 1.42	<b>29</b> 00 54 0.16 <b>SAT</b> 16 08 1.12
15 03 08 0.89 SUN 09 49 0.09 16 38 0.88 22 56 0.39	<b>30</b> 04 53 0.46 MON 09 29 0.29 17 27 1.10	<b>15</b> 00 33 0.10 WED 06 48 0.34 07 56 0.34 17 07 1.22		15 04 24 0.44 WED 07 18 0.38 © 15 12 1.37	<b>30</b> 00 26 0.11 THU 15 39 1.19	<b>15</b> 01 59 -0.05 <b>SAT</b> 17 55 1.32	<b>30</b> 02 06 0.17 <b>SUN</b> 11 48 0.92 13 25 0.91 18 47 1.04
	<b>31</b> 02 09 0.13 TUE 18 35 1.13				<b>31</b> 02 27 0.07 FRI 17 33 1.08		

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