## VIRAC, CATANDUANES

LAT 13° 35'N LONG 124° 14'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

September		October		November		December	
Time Ht.   h. min. m.	Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht.	Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht.
1 00 04 0.06 FRI 06 07 1.75 12 28 -0.19 18 46 1.66	16 00 06 0.09 SAT 06 10 1.51 12 19 0.01 18 24 1.52	1 00 21 -0.22 sun 06 36 1.62 12 30 -0.01 18 39 1.68	16 00 03 -0.14 MON 06 21 1.44 12 11 0.12 18 06 1.56	1 01 14 -0.22 WED 07 42 1.30 13 06 0.32 19 06 1.49	<b>16</b> 00 49 -0.25 THU 07 25 1.30 12 53 0.32 18 45 1.52	1 01 38 -0.12 FRI 08 10 1.21 13 30 0.43 19 24 1.38	<b>16</b> 01 33 -0.24 <b>SAT</b> 08 10 1.29 13 39 0.36 19 30 1.49
2 00 47 -0.04 SAT 06 52 1.72 13 05 -0.12 19 20 1.68	17 00 35 0.04 SUN 06 40 1.48 12 45 0.05 18 47 1.54	<b>2</b> 01 00 -0.23 <b>MON</b> 07 18 1.52 13 02 0.11 19 09 1.63	17 00 33 -0.18 TUE 06 54 1.40 12 39 0.17 18 33 1.55	<b>2</b> 01 53 -0.11 <b>THU</b> 08 22 1.20 13 41 0.41 19 39 1.38	<b>17</b> 01 31 -0.20 <b>FRI</b> 08 09 1.24 13 33 0.40 19 27 1.45	2 02 17 -0.03 SAT 08 50 1.17 14 12 0.48 20 02 1.28	<b>17</b> 02 20 -0.17 <b>SUN</b> 08 57 1.28 14 33 0.38 20 23 1.40
3 01 29 -0.08 SUN 07 36 1.62 13 39 0.01 19 53 1.65	18 01 03 -0.01 MON 07 11 1.44 13 10 0.11 19 11 1.53	<b>3</b> 01 39 -0.18 <b>TUE</b> 07 58 1.38 13 34 0.24 19 40 1.54	18 01 05 -0.18 WED 07 30 1.33 13 09 0.25 19 03 1.51	<b>3</b> 02 34 0.01 <b>FRI</b> 09 06 1.10 14 20 0.51 20 17 1.25	<b>18</b> 02 18 -0.11 <b>SAT</b> 09 00 1.17 14 22 0.47 20 15 1.35	<b>3</b> 02 57 0.06 <b>SUN</b> 09 33 1.12 15 00 0.54 20 45 1.16	18 03 09 -0.08 MON 09 48 1.26 15 32 0.38 21 24 1.28
<b>4</b> 02 11 -0.06 <b>MON</b> 08 21 1.46 14 12 0.16 20 25 1.57	<b>19</b> 01 33 -0.02 <b>TUE</b> 07 44 1.36 13 36 0.19 19 37 1.50	<b>4</b> 02 19 -0.08 WED 08 41 1.23 14 06 0.37 20 12 1.42	19 01 40 -0.14 THU 08 09 1.24 13 41 0.35 19 37 1.44	4 03 21 0.13 SAT 10 00 1.02 15 09 0.61 21 03 1.12	<b>19</b> 03 12 -0.01 <b>SUN</b> 10 01 1.12 15 26 0.53 21 18 1.22	<b>4</b> 03 42 0.16 MON 10 24 1.09 15 57 0.58 21 40 1.04	19 04 00 0.04 TUE 10 41 1.25 16 41 0.36 22 36 1.15
<b>5</b> 02 54 0.00 TUE 09 06 1.28 14 43 0.32 20 59 1.46	<b>20</b> 02 05 -0.01 WED 08 20 1.26 14 03 0.29 20 06 1.45	<b>5</b> 03 02 0.04 <b>THU</b> 09 27 1.08 14 39 0.51 20 47 1.27	<b>20</b> 02 22 -0.06 <b>FRI</b> 08 56 1.13 14 18 0.46 20 18 1.34	5 04 18 0.25 SUN 11 15 0.97	<b>20</b> 04 17 0.09 MON 11 13 1.10 16 53 0.55 22 45 1.12	<b>5</b> 04 32 0.26 <b>TUE</b> 11 21 1.07 《 17 16 0.58 23 00 0.93	<b>20</b> 04 57 0.17 WED 11 39 1.26 3 17 59 0.30
6 03 40 0.10 WED 09 57 1.10 15 15 0.48 21 37 1.33	<b>21</b> 02 42 0.03 THU 09 03 1.14 14 35 0.41 20 42 1.36	6 03 52 0.18 FRI 10 30 0.95 © 15 21 0.64 21 36 1.12	<b>21</b> 03 13 0.04 <b>SAT</b> 09 59 1.03 15 09 0.57 21 13 1.22	6 05 38 0.33 MON 12 45 0.99 18 42 0.67	<b>21</b> 05 33 0.17 TUE 12 27 1.15 18 33 0.46	6 05 35 0.34 WED 12 22 1.08 18 52 0.50	<b>21</b> 00 00 1.05 <b>THU</b> 06 02 0.28 12 38 1.28 19 18 0.19
7 04 36 0.22 THU 11 07 0.95 © 15 56 0.64 22 30 1.19	<b>22</b> 03 30 0.11 FRI 10 00 1.01 15 15 0.54 21 30 1.25	7 05 05 0.30 SAT 12 14 0.89 16 48 0.74 23 12 1.00	<b>22</b> 04 24 0.15 <b>SUN</b> 11 30 0.97 16 40 0.66 22 45 1.11	7 00 20 0.94 TUE 07 05 0.34 13 55 1.06 20 12 0.53	<b>22</b> 00 24 1.09 WED 06 52 0.21 13 31 1.24 19 51 0.28	7 00 41 0.89 THU 06 48 0.38 13 18 1.13 20 03 0.36	<b>22</b> 01 30 1.01 FRI 07 13 0.37 13 37 1.31 20 27 0.06
<b>8</b> 05 59 0.31 <b>FRI</b> 13 09 0.88 17 27 0.77	<b>23</b> 04 37 0.20 <b>SAT</b> 11 34 0.91	<b>8</b> 06 52 0.35 <b>sun</b> 14 13 0.95 19 54 0.70	<b>23</b> 06 00 0.20 MON 13 14 1.03 18 54 0.61	8 01 57 0.98 WED 08 10 0.30 14 39 1.15 21 00 0.37	<b>23</b> 01 52 1.13 THU 07 58 0.21 14 23 1.34 20 50 0.09	8 02 08 0.93 FRI 07 53 0.39 14 04 1.20 20 51 0.20	<b>23</b> 02 53 1.04 <b>SAT</b> 08 19 0.40 14 32 1.35 21 23 -0.06
9 00 05 1.08 SAT 07 45 0.31 15 09 0.97 20 18 0.74	<b>24</b> 06 19 0.23 <b>SUN</b> 13 51 0.95 18 55 0.71	9 01 25 1.00 MON 08 16 0.29 15 10 1.07 21 00 0.56	<b>24</b> 00 41 1.11 TUE 07 33 0.17 14 22 1.16 20 19 0.42	9 02 57 1.07 THU 08 57 0.26 15 12 1.24 21 34 0.21	<b>24</b> 03 02 1.21 FRI 08 52 0.21 15 07 1.44 21 38 -0.08	9 03 10 1.01 SAT 08 44 0.37 14 45 1.28 21 30 0.05	<b>24</b> 03 59 1.10 sun 09 15 0.41 15 22 1.40 22 12 -0.14
10 01 57 1.10 SUN 09 00 0.24 15 59 1.09 21 26 0.61	<b>25</b> 00 47 1.14 MON 08 03 0.16 15 07 1.10 20 36 0.56	<b>10</b> 02 43 1.10 TUE 09 09 0.22 15 44 1.18 21 39 0.40	<b>25</b> 02 11 1.21 WED 08 38 0.09 15 09 1.31 21 13 0.19	10 03 43 1.17 FRI 09 34 0.22 15 40 1.33 22 05 0.05	<b>25</b> 03 59 1.28 <b>SAT</b> 09 38 0.21 15 48 1.52 22 21 -0.21	10 03 59 1.10 sun 09 28 0.34 15 23 1.36 22 06 -0.09	<b>25</b> 04 51 1.16 MON 10 05 0.39 16 08 1.44 22 56 -0.19
11 03 09 1.19 MON 09 48 0.15 16 30 1.20 22 06 0.48	<b>26</b> 02 22 1.26 TUE 09 09 0.04 15 51 1.26 21 33 0.36	<b>11</b> 03 33 1.21 WED 09 47 0.14 16 10 1.28 22 11 0.26	<b>26</b> 03 16 1.35 THU 09 27 0.03 15 48 1.45 21 57 -0.01	11 04 21 1.25 SAT 10 07 0.19 16 07 1.42 22 35 -0.08	<b>26</b> 04 48 1.32 <b>SUN</b> 10 19 0.22 16 26 1.56 23 02 -0.27	<b>11</b> 04 42 1.18 MON 10 08 0.32 16 00 1.44 22 42 -0.19	<b>26</b> 05 35 1.21 TUE 10 49 0.38 16 50 1.47 23 36 -0.21
<b>12</b> 03 57 1.30 TUE 10 26 0.07 16 57 1.29 22 39 0.36	<b>27</b> 03 28 1.43 WED 09 59 -0.07 16 28 1.42 22 18 0.15	<b>12</b> 04 12 1.30 THU 10 19 0.09 16 33 1.36 22 39 0.13	<b>27</b> 04 09 1.45 <b>FRI</b> 10 09 0.01 16 23 1.56 22 39 -0.17	12 04 57 1.31 sun 10 39 0.18 16 35 1.48 23 05 -0.17	<b>27</b> 05 33 1.34 MON 10 58 0.25 17 03 1.58 23 42 -0.28	<b>12</b> 05 21 1.24 <b>TUE</b> 10 46 0.31 16 38 1.50 23 21 -0.25	<b>27</b> 06 14 1.24 WED 11 30 0.36 17 29 1.48
13 04 36 1.40 WED 10 57 0.02 17 20 1.37 23 09 0.25	<b>28</b> 04 21 1.57 THU 10 41 -0.13 17 02 1.55 23 00 -0.02	13 04 46 1.38 FRI 10 48 0.07 16 55 1.44 23 07 0.01	<b>28</b> 04 56 1.51 SAT 10 47 0.02 16 57 1.63 23 18 -0.27	13 05 32 1.35 MON 11 10 0.19 17 04 1.53 23 37 -0.24	<b>28</b> 06 15 1.33 TUE 11 36 0.29 17 38 1.56	13 06 02 1.29 WED 11 26 0.31 17 18 1.55	<b>28</b> 00 15 -0.20 THU 06 49 1.26 12 09 0.36 18 06 1.47
<b>14</b> 05 09 1.46 THU 11 27 -0.01 17 42 1.44 23 39 0.17	<b>29</b> 05 09 1.65 <b>FRI</b> 11 19 -0.14 17 35 1.64 23 41 -0.15	<b>14</b> 05 18 1.43 <b>SAT</b> 11 16 0.06 17 18 1.50 23 35 -0.08	29 05 40 1.51 SUN 11 23 0.07 17 30 1.66 23 57 -0.31	<b>14</b> 06 08 1.36 TUE 11 42 0.22 17 35 1.56	<b>29</b> 00 21 -0.25 WED 06 54 1.30 12 14 0.33 18 13 1.52	<b>14</b> 00 03 -0.28 <b>THU</b> 06 43 1.30 12 07 0.33 17 59 1.56	<b>29</b> 00 52 -0.18 FRI 07 23 1.27 12 48 0.36 18 42 1.45
15 05 40 1.50 FRI 11 54 -0.01 18 03 1.48	<b>30</b> 05 53 1.67 <b>SAT</b> 11 55 -0.09 18 07 1.69	15 05 50 1.44 sun 11 43 0.08 17 41 1.54	<b>30</b> 06 21 1.47 MON 11 57 0.14 18 03 1.64	<b>15</b> 00 12 -0.26 WED 06 45 1.34 12 16 0.26 18 09 1.55	<b>30</b> 01 00 -0.19 <b>THU</b> 07 32 1.26 12 51 0.37 18 48 1.46	<b>15</b> 00 47 -0.28 FRI 07 26 1.30 12 51 0.34 18 42 1.55	<b>30</b> 01 27 -0.13 <b>SAT</b> 07 55 1.27 13 26 0.37 19 16 1.40
			<b>31</b> 00 36 -0.29 TUE 07 02 1.39 12 32 0.23 18 35 1.58				<b>31</b> 02 00 -0.08 <b>SUN</b> 08 27 1.25 14 03 0.39 19 51 1.32
		AIDNICHT 1200 IS NOO					

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