## PORT IRENE, STA. ANA, CAGAYAN

LAT 18° 23'N LONG 122° 06'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

January		February		March		April	
Time Ht.	Time Ht.	Time Ht.	Time Ht.	Time Ht. h. min. m.	Time Ht.	Time Ht.	Time Ht.
1 01 04 0.56 SUN 06 53 0.18 13 31 0.73 20 14 0.05	<b>16</b> 05 24 0.14 MON 11 53 0.68 18 28 0.09	1 04 00 0.46 WED 08 51 0.29 15 18 0.71 22 12 -0.08	16 02 27 0.47 THU 07 03 0.32 13 52 0.78 21 17 -0.07	1 01 08 0.39 WED 04 19 0.37 12 57 0.64 20 42 0.12	16 04 31 0.37 THU 11 28 0.81 19 20 0.11	1 03 42 0.65 SAT 09 06 0.43 15 15 0.84 21 49 0.12	16 03 00 0.83 SUN 08 35 0.35 14 51 1.03 21 23 0.09
<b>2</b> 02 35 0.54 <b>MON</b> 08 03 0.21 14 33 0.76 21 19 -0.05	<b>17</b> 00 46 0.53 <b>TUE</b> 06 32 0.19 13 01 0.71 19 57 0.00	<b>2</b> 04 48 0.53 <b>THU</b> 10 00 0.23 16 15 0.79 22 55 -0.17	<b>17</b> 04 00 0.57 <b>FRI</b> 08 53 0.28 15 21 0.90 22 22 -0.21	2 04 03 0.46 THU 08 25 0.40 14 54 0.70 21 51 0.03	<b>17</b> 02 30 0.55 <b>FRI</b> 06 51 0.43 13 42 0.84 21 02 0.02	<b>2</b> 04 10 0.76 <b>SUN</b> 09 51 0.34 16 01 0.94 22 24 0.06	<b>17</b> 03 40 0.97 <b>MON</b> 09 32 0.20 15 48 1.13 22 05 0.05
3 03 48 0.56 TUE 09 07 0.20 15 28 0.80 22 12 -0.14	18 02 28 0.53 WED 07 49 0.21 14 15 0.77 21 18 -0.13	3 05 22 0.60 FRI 10 44 0.18 16 58 0.86 23 32 -0.24	18 04 51 0.69 SAT 10 04 0.18 16 23 1.05 23 11 -0.33	<b>3</b> 04 34 0.56 <b>FRI</b> 09 45 0.33 15 55 0.80 22 33 -0.05	18 03 42 0.67 SAT 08 49 0.34 15 10 0.98 22 00 -0.09	<b>3</b> 04 35 0.88 <b>MON</b> 10 24 0.24 16 37 1.02 22 52 0.03	<b>18</b> 04 15 1.10 <b>TUE</b> 10 18 0.05 16 36 1.19 22 42 0.04
<b>4</b> 04 41 0.60 <b>WED</b> 10 00 0.17 16 17 0.84 22 57 -0.22	19 03 52 0.58 THU 09 02 0.19 15 24 0.88 22 24 -0.27	<b>4</b> 05 52 0.67 <b>SAT</b> 11 20 0.13 17 34 0.93	19 05 31 0.81 sun 10 58 0.07 17 15 1.18 23 53 -0.40	4 04 59 0.66 SAT 10 27 0.25 16 37 0.91 23 06 -0.12	19 04 23 0.82 sun 09 52 0.20 16 09 1.12 22 43 -0.16	<b>4</b> 04 58 0.98 <b>TUE</b> 10 54 0.15 17 08 1.08 23 17 0.01	<b>19</b> 04 49 1.20 WED 11 01 -0.08 17 19 1.21 23 18 0.05
5 05 22 0.63 THU 10 44 0.14 17 00 0.87 23 36 -0.28	<b>20</b> 04 54 0.65 FRI 10 06 0.14 16 25 1.00 23 18 -0.39	5 00 04 -0.28 SUN 06 19 0.73 11 51 0.09 18 06 0.98	<b>20</b> 06 08 0.92 <b>MON</b> 11 45 -0.04 18 01 1.26	5 05 24 0.76 SUN 11 00 0.18 17 12 0.99 23 36 -0.16	<b>20</b> 04 57 0.96 <b>MON</b> 10 42 0.05 16 57 1.22 23 21 -0.20	<b>5</b> 05 21 1.08 WED 11 23 0.05 17 36 1.12 23 41 0.00	<b>20</b> 05 23 1.27 THU 11 42 -0.17 18 00 1.19 23 51 0.08
6 05 57 0.66 FRI 11 21 0.12 17 39 0.90	21 05 43 0.72 SAT 11 01 0.07 17 20 1.11	6 00 33 -0.30 MON 06 45 0.79 12 21 0.06 18 36 1.01	<b>21</b> 00 31 -0.41 TUE 06 43 1.01 12 29 -0.13 18 44 1.26	6 05 47 0.86 MON 11 30 0.11 17 42 1.05	<b>21</b> 05 31 1.08 TUE 11 25 -0.08 17 41 1.27 23 56 -0.20	6 05 43 1.15 THU 11 52 -0.05 18 06 1.14	<b>21</b> 05 57 1.29 <b>FRI</b> 12 21 -0.21 18 39 1.13
7 00 12 -0.31 SAT 06 30 0.68 11 55 0.10 18 13 0.92	22 00 07 -0.48 SUN 06 28 0.79 11 53 0.01 18 10 1.19	7 01 00 -0.29 TUE 07 11 0.83 12 49 0.03 19 03 1.01	<b>22</b> 01 06 -0.37 WED 07 17 1.06 13 12 -0.18 19 25 1.21	7 00 02 -0.18 TUE 06 09 0.94 11 57 0.05 18 10 1.09	<b>22</b> 06 03 1.17 WED 12 06 -0.18 18 22 1.26	7 00 05 0.00 FRI 06 07 1.21 12 23 -0.14 18 36 1.13	<b>22</b> 00 22 0.13 <b>SAT</b> 06 29 1.26 12 59 -0.21 19 15 1.05
8 00 46 -0.32 SUN 07 00 0.69 12 27 0.09 18 45 0.93	<b>23</b> 00 52 -0.51 MON 07 10 0.84 12 42 -0.04 18 57 1.20	<b>8</b> 01 26 -0.27 <b>WED</b> 07 35 0.87 13 18 0.01 19 30 1.00	<b>23</b> 01 39 -0.29 THU 07 50 1.08 13 53 -0.19 20 04 1.09	8 00 26 -0.18 WED 06 32 1.01 12 24 -0.01 18 37 1.10	<b>23</b> 00 29 -0.16 <b>THU</b> 06 36 1.22 12 46 -0.23 19 01 1.20	8 00 30 0.02 SAT 06 33 1.24 12 56 -0.20 19 09 1.10	<b>23</b> 00 51 0.18 <b>SUN</b> 07 00 1.20 13 36 -0.16 19 49 0.95
9 01 18 -0.30 MON 07 30 0.71 12 57 0.09 19 15 0.92	<b>24</b> 01 34 -0.48 TUE 07 50 0.88 13 28 -0.07 19 42 1.16	9 01 51 -0.23 THU 08 00 0.89 13 48 -0.01 19 57 0.96	<b>24</b> 02 10 -0.17 FRI 08 22 1.05 14 33 -0.16 20 41 0.94	9 00 48 -0.16 THU 06 54 1.06 12 53 -0.07 19 03 1.09	<b>24</b> 01 00 -0.09 FRI 07 07 1.22 13 24 -0.24 19 38 1.09	9 00 58 0.06 SUN 07 02 1.24 13 32 -0.22 19 45 1.02	<b>24</b> 01 18 0.24 MON 07 30 1.13 14 12 -0.08 20 22 0.86
10 01 49 -0.27 TUE 08 00 0.72 13 28 0.09 19 45 0.90	<b>25</b> 02 13 -0.39 WED 08 28 0.89 14 14 -0.07 20 26 1.06	<b>10</b> 02 15 -0.17 <b>FRI</b> 08 24 0.89 14 19 -0.03 20 25 0.91	<b>25</b> 02 39 -0.05 <b>SAT</b> 08 53 0.99 15 14 -0.10 21 18 0.78	<b>10</b> 01 12 -0.13 FRI 07 17 1.09 13 23 -0.12 19 32 1.05	<b>25</b> 01 28 0.00 <b>SAT</b> 07 38 1.17 14 02 -0.20 20 12 0.96	10 01 27 0.11 MON 07 33 1.20 14 12 -0.18 20 24 0.92	<b>25</b> 01 42 0.29 TUE 08 00 1.04 14 50 0.03 20 57 0.77
11 02 19 -0.22 WED 08 30 0.72 14 01 0.10 20 15 0.87	<b>26</b> 02 49 -0.27 THU 09 06 0.88 15 00 -0.05 21 09 0.92	11 02 40 -0.11 SAT 08 51 0.88 14 54 -0.03 20 58 0.83	<b>26</b> 03 03 0.07 sun 09 25 0.90 15 59 -0.01 21 57 0.62	11 01 36 -0.09 SAT 07 42 1.09 13 54 -0.15 20 03 0.99	<b>26</b> 01 54 0.09 sun 08 06 1.09 14 39 -0.12 20 45 0.82	11 01 58 0.19 TUE 08 08 1.14 14 57 -0.10 21 09 0.80	<b>26</b> 02 09 0.35 WED 08 34 0.96 15 35 0.14 21 42 0.69
12 02 48 -0.16 THU 09 02 0.72 14 37 0.11 20 46 0.82	<b>27</b> 03 24 -0.13 FRI 09 43 0.84 15 50 -0.01 21 54 0.75	12 03 07 -0.03 sun 09 19 0.85 15 34 -0.02 21 37 0.73	<b>27</b> 03 27 0.18 MON 10 01 0.80 16 57 0.09 22 49 0.48	12 02 01 -0.03 SUN 08 08 1.07 14 30 -0.15 20 36 0.90	<b>27</b> 02 17 0.17 MON 08 35 0.99 15 18 -0.01 21 20 0.69	<b>12</b> 02 33 0.28 WED 08 50 1.06 15 53 0.02 22 11 0.69	<b>27</b> 02 41 0.42 THU 09 18 0.88 16 39 0.25 22 55 0.64
13 03 19 -0.09 FRI 09 35 0.71 15 18 0.12 21 24 0.75	28 03 57 0.00 SAT 10 24 0.79 16 47 0.05 22 45 0.59	13 03 38 0.06 MON 09 54 0.80 16 26 0.02 22 30 0.61	<b>28</b> 03 48 0.27 TUE 10 54 0.70 18 37 0.15	13 02 28 0.05 MON 08 37 1.02 15 10 -0.10 21 16 0.78	<b>28</b> 02 37 0.25 TUE 09 06 0.89 16 06 0.11 22 03 0.58	<b>13</b> 03 17 0.39 <b>THU</b> 09 48 0.96 (77 13 0.14	<b>28</b> 03 32 0.50 FRI 10 35 0.80 18 20 0.32
14 03 53 -0.01 SAT 10 12 0.69 16 06 0.13 22 11 0.67	<b>29</b> 04 34 0.13 sun 11 14 0.73 18 00 0.09	<b>14</b> 04 16 0.16 <b>TUE</b> 10 44 0.76 ( 17 42 0.05 23 58 0.49		<b>14</b> 02 57 0.14 <b>TUE</b> 09 12 0.95 16 01 -0.02 22 08 0.64	<b>29</b> 02 59 0.34 WED 09 48 0.79 17 23 0.21 23 30 0.49	<b>14</b> 00 03 0.63 FRI 04 39 0.48 11 29 0.89 19 04 0.18	<b>29</b> 01 04 0.66 <b>SAT</b> 05 51 0.56 12 52 0.80 19 52 0.31
15 04 33 0.07 SUN 10 57 0.68	<b>30</b> 00 01 0.46 <b>MON</b> 05 24 0.23 12 25 0.67 19 39 0.08	15 05 16 0.26 WED 12 03 0.73 19 33 0.04		15 03 33 0.25 WED 10 01 0.88 ( 17 17 0.08 23 43 0.52	<b>30</b> 03 30 0.43 THU 11 19 0.71 19 38 0.24	15 02 03 0.70 SAT 07 06 0.48 13 32 0.92 20 28 0.14	<b>30</b> 02 23 0.76 <b>SUN</b> 08 08 0.50 14 20 0.86 20 49 0.28
	31 02 14 0.41 TUE 06 59 0.30 14 00 0.66 21 11 0.01				31 02 51 0.53 FRI 07 11 0.50 14 03 0.73 21 02 0.18		

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