Fig. 24. Representative seasonal distribution of nitrite-nitrogen (a), nitrate - nitrogen (b) and ammonia - nitrogen (c) at stations 1 to 9.
ANNEXURE 2

Fig. 25. Representative seasonal distribution of inorganic reactive phosphorus (a) and dissolved organic phosphorus (b) at stations 1 to 9.
Fig. 26. Representative seasonal distribution of particulate reactive phosphorus (a) and total reactive phosphorus (b) at stations 1 to 9.
Fig. 27. Representative seasonal distribution of interstitial phosphorus (a) and adsorbed phosphorus (b) at stations 1 to 9.
Fig. 28. Representative seasonal distribution of inorganic reactive silicate-silicon at stations 1 to 9.
Table 1. Distribution of temperature (°C) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>n</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.5</td>
<td>27.9</td>
<td>28.6</td>
<td>28.3</td>
<td>28.1</td>
<td>27.9</td>
<td>28.0</td>
<td>30.3</td>
<td>28.3</td>
<td>29.1</td>
</tr>
<tr>
<td>28.0</td>
<td>26.1</td>
<td>27.1</td>
<td>28.1</td>
<td>27.6</td>
<td>27.4</td>
<td>27.7</td>
<td>30.1</td>
<td>28.1</td>
<td>28.0</td>
</tr>
<tr>
<td>28.0</td>
<td>27.3</td>
<td>26.7</td>
<td>27.4</td>
<td>26.8</td>
<td>26.8</td>
<td>28.1</td>
<td>29.0</td>
<td>27.9</td>
<td>28.1</td>
</tr>
<tr>
<td>27.6</td>
<td>27.2</td>
<td>27.3</td>
<td>26.1</td>
<td>26.1</td>
<td>25.3</td>
<td>27.3</td>
<td>28.1</td>
<td>27.1</td>
<td>27.0</td>
</tr>
<tr>
<td>27.8</td>
<td>27.4</td>
<td>27.4</td>
<td>25.3</td>
<td>25.3</td>
<td>26.2</td>
<td>26.1</td>
<td>26.7</td>
<td>28.8</td>
<td>27.6</td>
</tr>
<tr>
<td>28.1</td>
<td>27.8</td>
<td>27.3</td>
<td>26.3</td>
<td>27.3</td>
<td>27.3</td>
<td>26.3</td>
<td>26.3</td>
<td>27.3</td>
<td>27.6</td>
</tr>
<tr>
<td>28.3</td>
<td>28.0</td>
<td>28.1</td>
<td>28.1</td>
<td>28.6</td>
<td>28.1</td>
<td>27.3</td>
<td>26.2</td>
<td>28.1</td>
<td>28.3</td>
</tr>
<tr>
<td>28.4</td>
<td>27.8</td>
<td>28.3</td>
<td>27.9</td>
<td>28.3</td>
<td>28.1</td>
<td>26.9</td>
<td>27.6</td>
<td>28.4</td>
<td>28.6</td>
</tr>
<tr>
<td>28.7</td>
<td>28.3</td>
<td>27.6</td>
<td>27.6</td>
<td>27.9</td>
<td>27.6</td>
<td>28.4</td>
<td>27.1</td>
<td>28.0</td>
<td>28.1</td>
</tr>
<tr>
<td>29.3</td>
<td>28.4</td>
<td>27.1</td>
<td>28.1</td>
<td>28.7</td>
<td>28.1</td>
<td>28.7</td>
<td>28.3</td>
<td>29.1</td>
<td>28.1</td>
</tr>
<tr>
<td>30.1</td>
<td>27.1</td>
<td>29.1</td>
<td>28.8</td>
<td>30.1</td>
<td>27.1</td>
<td>29.3</td>
<td>29.1</td>
<td>30.3</td>
<td>29.3</td>
</tr>
<tr>
<td>30.7</td>
<td>28.3</td>
<td>29.3</td>
<td>29.1</td>
<td>30.1</td>
<td>28.3</td>
<td>30.4</td>
<td>29.6</td>
<td>30.1</td>
<td>29.1</td>
</tr>
<tr>
<td>31.1</td>
<td>29.4</td>
<td>30.6</td>
<td>28.7</td>
<td>30.1</td>
<td>28.6</td>
<td>31.1</td>
<td>30.1</td>
<td>30.0</td>
<td>29.4</td>
</tr>
<tr>
<td>31.0</td>
<td>29.7</td>
<td>31.7</td>
<td>29.1</td>
<td>31.6</td>
<td>29.1</td>
<td>31.3</td>
<td>30.7</td>
<td>31.1</td>
<td>29.9</td>
</tr>
<tr>
<td>32.3</td>
<td>30.1</td>
<td>32.3</td>
<td>29.3</td>
<td>32.1</td>
<td>30.3</td>
<td>32.3</td>
<td>31.4</td>
<td>31.1</td>
<td>30.1</td>
</tr>
<tr>
<td>32.1</td>
<td>31.0</td>
<td>33.0</td>
<td>30.0</td>
<td>32.4</td>
<td>30.6</td>
<td>32.6</td>
<td>31.4</td>
<td>32.0</td>
<td>29.8</td>
</tr>
<tr>
<td>31.9</td>
<td>30.7</td>
<td>32.1</td>
<td>31.4</td>
<td>32.0</td>
<td>31.9</td>
<td>32.3</td>
<td>30.6</td>
<td>32.3</td>
<td>29.7</td>
</tr>
<tr>
<td>33.1</td>
<td>32.1</td>
<td>32.3</td>
<td>31.4</td>
<td>33.4</td>
<td>32.6</td>
<td>32.7</td>
<td>31.7</td>
<td>31.9</td>
<td>30.6</td>
</tr>
<tr>
<td>33.0</td>
<td>31.8</td>
<td>32.6</td>
<td>31.4</td>
<td>32.1</td>
<td>31.7</td>
<td>33.0</td>
<td>30.8</td>
<td>32.7</td>
<td>30.1</td>
</tr>
<tr>
<td>32.2</td>
<td>31.7</td>
<td>31.9</td>
<td>31.3</td>
<td>32.1</td>
<td>32.0</td>
<td>32.7</td>
<td>32.1</td>
<td>31.7</td>
<td>31.2</td>
</tr>
<tr>
<td>32.0</td>
<td>31.9</td>
<td>33.1</td>
<td>30.6</td>
<td>31.8</td>
<td>31.6</td>
<td>32.0</td>
<td>31.8</td>
<td>30.8</td>
<td>30.9</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 2. Distribution of salinity (x10^{-3}) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8.08</td>
<td>20.11</td>
<td>07.56</td>
<td>16.16</td>
<td>12.16</td>
<td>16.31</td>
<td>11.86</td>
<td>19.00</td>
<td>05.16</td>
<td>12.06</td>
<td>02.41</td>
<td>04.30</td>
<td>01.01</td>
<td>01.81</td>
</tr>
<tr>
<td>8.16</td>
<td>21.39</td>
<td>07.03</td>
<td>14.81</td>
<td>11.40</td>
<td>15.46</td>
<td>10.36</td>
<td>18.20</td>
<td>06.37</td>
<td>11.16</td>
<td>03.06</td>
<td>04.18</td>
<td>02.10</td>
<td>01.10</td>
</tr>
<tr>
<td>9.23</td>
<td>20.48</td>
<td>07.34</td>
<td>16.78</td>
<td>11.06</td>
<td>18.38</td>
<td>09.21</td>
<td>19.00</td>
<td>07.58</td>
<td>15.00</td>
<td>03.91</td>
<td>06.71</td>
<td>01.95</td>
<td>01.10</td>
</tr>
<tr>
<td>9.46</td>
<td>21.07</td>
<td>07.68</td>
<td>15.36</td>
<td>07.78</td>
<td>17.58</td>
<td>07.42</td>
<td>19.30</td>
<td>07.91</td>
<td>13.10</td>
<td>05.97</td>
<td>09.99</td>
<td>01.41</td>
<td>03.06</td>
</tr>
<tr>
<td>1.23</td>
<td>23.87</td>
<td>09.10</td>
<td>16.46</td>
<td>07.00</td>
<td>19.61</td>
<td>10.23</td>
<td>23.00</td>
<td>09.10</td>
<td>15.60</td>
<td>07.51</td>
<td>08.07</td>
<td>02.06</td>
<td>02.86</td>
</tr>
<tr>
<td>3.87</td>
<td>20.96</td>
<td>11.00</td>
<td>19.01</td>
<td>08.06</td>
<td>19.10</td>
<td>10.16</td>
<td>27.10</td>
<td>11.12</td>
<td>17.20</td>
<td>09.56</td>
<td>11.07</td>
<td>02.71</td>
<td>05.50</td>
</tr>
<tr>
<td>5.61</td>
<td>26.11</td>
<td>12.36</td>
<td>19.31</td>
<td>09.10</td>
<td>20.20</td>
<td>10.61</td>
<td>28.81</td>
<td>10.14</td>
<td>19.20</td>
<td>10.41</td>
<td>12.06</td>
<td>03.10</td>
<td>07.76</td>
</tr>
<tr>
<td>5.18</td>
<td>25.23</td>
<td>10.46</td>
<td>16.63</td>
<td>11.20</td>
<td>21.46</td>
<td>13.61</td>
<td>28.81</td>
<td>10.34</td>
<td>19.50</td>
<td>10.46</td>
<td>14.01</td>
<td>02.16</td>
<td>06.68</td>
</tr>
<tr>
<td>16.30</td>
<td>20.41</td>
<td>13.81</td>
<td>18.93</td>
<td>14.30</td>
<td>23.63</td>
<td>16.01</td>
<td>29.81</td>
<td>14.35</td>
<td>22.81</td>
<td>11.33</td>
<td>14.22</td>
<td>07.86</td>
<td>08.70</td>
</tr>
<tr>
<td>17.61</td>
<td>27.71</td>
<td>15.56</td>
<td>19.31</td>
<td>15.61</td>
<td>24.81</td>
<td>19.62</td>
<td>29.00</td>
<td>15.68</td>
<td>23.46</td>
<td>12.10</td>
<td>15.11</td>
<td>04.01</td>
<td>07.32</td>
</tr>
<tr>
<td>19.57</td>
<td>29.61</td>
<td>14.54</td>
<td>21.41</td>
<td>18.81</td>
<td>23.76</td>
<td>20.44</td>
<td>32.18</td>
<td>17.10</td>
<td>26.31</td>
<td>14.10</td>
<td>19.66</td>
<td>06.81</td>
<td>10.10</td>
</tr>
<tr>
<td>20.35</td>
<td>30.51</td>
<td>18.30</td>
<td>19.31</td>
<td>16.30</td>
<td>24.86</td>
<td>20.21</td>
<td>30.60</td>
<td>19.90</td>
<td>25.60</td>
<td>10.01</td>
<td>16.50</td>
<td>09.11</td>
<td>11.10</td>
</tr>
<tr>
<td>23.50</td>
<td>31.46</td>
<td>19.46</td>
<td>21.61</td>
<td>20.10</td>
<td>27.11</td>
<td>23.32</td>
<td>32.60</td>
<td>20.12</td>
<td>27.70</td>
<td>13.01</td>
<td>17.05</td>
<td>08.61</td>
<td>10.86</td>
</tr>
<tr>
<td>20.61</td>
<td>30.21</td>
<td>21.51</td>
<td>21.26</td>
<td>18.16</td>
<td>29.20</td>
<td>25.16</td>
<td>30.90</td>
<td>22.22</td>
<td>27.80</td>
<td>12.00</td>
<td>18.00</td>
<td>10.30</td>
<td>12.10</td>
</tr>
<tr>
<td>24.00</td>
<td>32.16</td>
<td>23.68</td>
<td>25.31</td>
<td>19.36</td>
<td>31.30</td>
<td>27.82</td>
<td>30.30</td>
<td>23.21</td>
<td>29.71</td>
<td>16.00</td>
<td>19.00</td>
<td>11.41</td>
<td>11.35</td>
</tr>
<tr>
<td>31.36</td>
<td>31.87</td>
<td>20.34</td>
<td>23.61</td>
<td>22.00</td>
<td>29.41</td>
<td>31.61</td>
<td>35.46</td>
<td>19.14</td>
<td>28.80</td>
<td>16.66</td>
<td>20.30</td>
<td>10.60</td>
<td>13.88</td>
</tr>
<tr>
<td>33.84</td>
<td>30.98</td>
<td>26.26</td>
<td>27.81</td>
<td>24.00</td>
<td>27.50</td>
<td>32.32</td>
<td>34.20</td>
<td>25.25</td>
<td>30.10</td>
<td>19.11</td>
<td>19.60</td>
<td>09.54</td>
<td>13.11</td>
</tr>
<tr>
<td>35.02</td>
<td>35.21</td>
<td>37.54</td>
<td>28.36</td>
<td>24.60</td>
<td>30.60</td>
<td>30.61</td>
<td>35.16</td>
<td>27.17</td>
<td>31.61</td>
<td>19.30</td>
<td>23.83</td>
<td>11.37</td>
<td>15.34</td>
</tr>
<tr>
<td>32.13</td>
<td>34.03</td>
<td>29.36</td>
<td>31.32</td>
<td>31.30</td>
<td>34.31</td>
<td>35.06</td>
<td>30.30</td>
<td>29.29</td>
<td>30.31</td>
<td>20.29</td>
<td>23.91</td>
<td>15.06</td>
<td>15.16</td>
</tr>
<tr>
<td>34.16</td>
<td>35.00</td>
<td>32.30</td>
<td>35.01</td>
<td>30.60</td>
<td>33.31</td>
<td>31.01</td>
<td>31.18</td>
<td>30.10</td>
<td>29.01</td>
<td>21.18</td>
<td>21.11</td>
<td>15.61</td>
<td>13.26</td>
</tr>
<tr>
<td>33.80</td>
<td>34.50</td>
<td>31.86</td>
<td>34.50</td>
<td>31.00</td>
<td>30.61</td>
<td>30.61</td>
<td>33.10</td>
<td>31.00</td>
<td>27.80</td>
<td>20.56</td>
<td>20.50</td>
<td>14.06</td>
<td>10.86</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
<table>
<thead>
<tr>
<th>S</th>
<th>B</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.40</td>
<td>7.75</td>
<td>7.30</td>
<td>8.05</td>
<td>8.40</td>
<td>8.15</td>
<td>8.20</td>
<td>8.15</td>
<td>7.15</td>
<td>7.20</td>
<td>7.25</td>
</tr>
<tr>
<td>7.50</td>
<td>7.50</td>
<td>7.05</td>
<td>8.15</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>7.20</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>7.60</td>
<td>7.40</td>
<td>7.40</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>7.70</td>
<td>7.80</td>
<td>7.80</td>
<td>7.80</td>
<td>7.80</td>
<td>7.80</td>
<td>7.80</td>
<td>7.80</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>8.10</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>8.20</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>8.30</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>8.40</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>8.60</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>8.70</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>8.80</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>8.90</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
<tr>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>9.00</td>
<td>7.15</td>
<td>7.20</td>
<td>7.20</td>
</tr>
</tbody>
</table>

Table 3. Distribution of pHi in the Cochin estuary during June 1985 to May 1986.
<table>
<thead>
<tr>
<th>Station</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Month</strong></td>
<td><strong>S</strong></td>
<td><strong>B</strong></td>
<td><strong>S</strong></td>
<td><strong>B</strong></td>
<td><strong>S</strong></td>
<td><strong>B</strong></td>
<td><strong>S</strong></td>
<td><strong>B</strong></td>
<td><strong>S</strong></td>
</tr>
<tr>
<td><strong>1985</strong></td>
<td><strong>Jun.</strong></td>
<td>5.86</td>
<td>4.90</td>
<td>5.50</td>
<td>5.06</td>
<td>5.10</td>
<td>5.37</td>
<td>6.45</td>
<td>5.06</td>
</tr>
<tr>
<td></td>
<td><strong>Jul.</strong></td>
<td>6.09</td>
<td>5.06</td>
<td>5.13</td>
<td>5.30</td>
<td>5.63</td>
<td>5.56</td>
<td>5.90</td>
<td>5.61</td>
</tr>
<tr>
<td></td>
<td><strong>Sept.</strong></td>
<td>6.05</td>
<td>5.86</td>
<td>6.04</td>
<td>5.13</td>
<td>6.31</td>
<td>5.06</td>
<td>6.37</td>
<td>5.60</td>
</tr>
<tr>
<td></td>
<td><strong>Oct.</strong></td>
<td>5.87</td>
<td>6.07</td>
<td>6.46</td>
<td>4.97</td>
<td>6.56</td>
<td>5.10</td>
<td>6.46</td>
<td>5.51</td>
</tr>
<tr>
<td></td>
<td><strong>Nov.</strong></td>
<td>5.91</td>
<td>5.51</td>
<td>6.50</td>
<td>5.57</td>
<td>6.81</td>
<td>5.36</td>
<td>6.00</td>
<td>5.53</td>
</tr>
<tr>
<td></td>
<td><strong>Dec.</strong></td>
<td>6.34</td>
<td>6.34</td>
<td>6.07</td>
<td>5.60</td>
<td>6.07</td>
<td>5.01</td>
<td>6.31</td>
<td>5.61</td>
</tr>
<tr>
<td></td>
<td><strong>Jan.</strong></td>
<td>6.06</td>
<td>5.70</td>
<td>5.81</td>
<td>5.06</td>
<td>6.56</td>
<td>5.41</td>
<td>6.10</td>
<td>5.07</td>
</tr>
<tr>
<td></td>
<td><strong>Feb.</strong></td>
<td>5.74</td>
<td>4.54</td>
<td>6.07</td>
<td>4.71</td>
<td>6.07</td>
<td>4.50</td>
<td>6.03</td>
<td>4.56</td>
</tr>
<tr>
<td></td>
<td><strong>Mar.</strong></td>
<td>5.94</td>
<td>4.44</td>
<td>5.93</td>
<td>4.06</td>
<td>6.13</td>
<td>4.30</td>
<td>6.30</td>
<td>5.44</td>
</tr>
<tr>
<td></td>
<td><strong>Apr.</strong></td>
<td>5.51</td>
<td>4.30</td>
<td>5.46</td>
<td>3.31</td>
<td>5.06</td>
<td>3.56</td>
<td>5.10</td>
<td>4.01</td>
</tr>
<tr>
<td></td>
<td><strong>May</strong></td>
<td>5.60</td>
<td>4.06</td>
<td>5.14</td>
<td>3.46</td>
<td>4.06</td>
<td>3.08</td>
<td>5.01</td>
<td>3.56</td>
</tr>
<tr>
<td></td>
<td><strong>1986</strong></td>
<td>5.34</td>
<td>4.60</td>
<td>5.21</td>
<td>3.46</td>
<td>4.34</td>
<td>3.39</td>
<td>5.70</td>
<td>3.91</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
NITROGENOUS NUTRIENTS IN SOME KERALA ESTUARIES

Table 5. Seasonal and annual averages of nitrogenous nutrients for the water column. (Values are in µg at l⁻¹ and ranges are given in parenthesis). Sarala Devi et al. (1983)

<table>
<thead>
<tr>
<th>Season</th>
<th>Nitrite</th>
<th>Nitrate</th>
<th>Ammonia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>KALLAI</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premonsoon</td>
<td>0.58</td>
<td>0.61</td>
<td>13.90</td>
</tr>
<tr>
<td>(0.10-1.77)</td>
<td>(0-02.54)</td>
<td>(04.36-28.55)</td>
<td></td>
</tr>
<tr>
<td>Monsoon</td>
<td>1.16</td>
<td>14.23</td>
<td>15.70</td>
</tr>
<tr>
<td>(0 - 2.64)</td>
<td>(0-43.46)</td>
<td>(11.52-20.29)</td>
<td></td>
</tr>
<tr>
<td>Postmonsoon</td>
<td>0.63</td>
<td>0.27</td>
<td>7.24</td>
</tr>
<tr>
<td>(0.33-0.73)</td>
<td>(0-0.53)</td>
<td>(5.44-9.04)</td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>0.80</td>
<td>5.42</td>
<td>13.54</td>
</tr>
<tr>
<td>(0 - 2.64)</td>
<td>(0-43.46)</td>
<td>(4.36-28.55)</td>
<td></td>
</tr>
<tr>
<td><strong>BEYPORE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premonsoon</td>
<td>0.53</td>
<td>2.88</td>
<td>5.97</td>
</tr>
<tr>
<td>(0.2-1.64)</td>
<td>(0.58-9.12)</td>
<td>(0.88-13.77)</td>
<td></td>
</tr>
<tr>
<td>Monsoon</td>
<td>0.05</td>
<td>11.26</td>
<td>11.31</td>
</tr>
<tr>
<td>(0 - 0.3)</td>
<td>(13.6-19.04)</td>
<td>(2.88-46.02)</td>
<td></td>
</tr>
<tr>
<td>Postmonsoon</td>
<td>2.16</td>
<td>4.54</td>
<td>3.30</td>
</tr>
<tr>
<td>(0 - 6.13)</td>
<td>(0.59-7.19)</td>
<td>(2.58-3.87)</td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>0.67</td>
<td>6.23</td>
<td>7.61</td>
</tr>
<tr>
<td>(0 - 6.13)</td>
<td>(0-19.04)</td>
<td>(0.88-46.02)</td>
<td></td>
</tr>
<tr>
<td><strong>KORAPUZHA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premonsoon</td>
<td>0.59</td>
<td>1.60</td>
<td>4.80</td>
</tr>
<tr>
<td>(0-2.45)</td>
<td>(0.29-3.68)</td>
<td>(1.77-7.27)</td>
<td></td>
</tr>
<tr>
<td>Monsoon</td>
<td>0.10</td>
<td>6.23</td>
<td>4.18</td>
</tr>
<tr>
<td>(0-0.43)</td>
<td>(0.63-10.75)</td>
<td>(2.21-7.44)</td>
<td></td>
</tr>
<tr>
<td>Postmonsoon</td>
<td>1.15</td>
<td>1.43</td>
<td>12.40</td>
</tr>
<tr>
<td>(0.42-2.81)</td>
<td>(0 - 2.43)</td>
<td>(2.83-33.57)</td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>0.61</td>
<td>4.31</td>
<td>5.50</td>
</tr>
<tr>
<td>(0-2.81)</td>
<td>(0 - 10.75)</td>
<td>(1.77-33.57)</td>
<td></td>
</tr>
<tr>
<td><strong>MAHE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premonsoon</td>
<td>0.80</td>
<td>2.87</td>
<td>7.10</td>
</tr>
<tr>
<td>(0.11-2.82)</td>
<td>(0 - 7.34)</td>
<td>(0-24.64)</td>
<td></td>
</tr>
<tr>
<td>Monsoon</td>
<td>0.04</td>
<td>10.04</td>
<td>12.47</td>
</tr>
<tr>
<td>(0-0.11)</td>
<td>(0.4-18.09)</td>
<td>(1.68-60.89)</td>
<td></td>
</tr>
<tr>
<td>Postmonsoon</td>
<td>0.65</td>
<td>0.66</td>
<td>2.96</td>
</tr>
<tr>
<td>(0.42-1.04)</td>
<td>(0 - 1.06)</td>
<td>(1.52-7.75)</td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>0.50</td>
<td>5.20</td>
<td>8.58</td>
</tr>
<tr>
<td>(0 - 2.82)</td>
<td>(0 - 18.09)</td>
<td>(0 -60.89)</td>
<td></td>
</tr>
</tbody>
</table>
Table 6. Concentrations of nitrite - nitrogen (µg at NO$_2^-$-N l$^{-1}$) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>Station</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
</tr>
<tr>
<td>Jun. 1985</td>
<td>1.47</td>
<td>2.00</td>
<td>1.63</td>
<td>1.76</td>
<td>1.48</td>
<td>1.73</td>
<td>1.43</td>
<td>2.61</td>
<td>1.27</td>
</tr>
<tr>
<td>Jul.</td>
<td>2.21</td>
<td>2.43</td>
<td>1.83</td>
<td>1.48</td>
<td>1.80</td>
<td>2.43</td>
<td>2.56</td>
<td>2.00</td>
<td>1.30</td>
</tr>
<tr>
<td>Aug.</td>
<td>1.08</td>
<td>2.13</td>
<td>1.07</td>
<td>1.66</td>
<td>1.10</td>
<td>2.63</td>
<td>2.33</td>
<td>1.73</td>
<td>1.50</td>
</tr>
<tr>
<td>Sep.</td>
<td>2.15</td>
<td>2.38</td>
<td>2.06</td>
<td>2.41</td>
<td>2.40</td>
<td>3.90</td>
<td>1.74</td>
<td>3.56</td>
<td>1.78</td>
</tr>
<tr>
<td>Oct.</td>
<td>2.40</td>
<td>2.17</td>
<td>1.71</td>
<td>2.54</td>
<td>1.57</td>
<td>4.02</td>
<td>1.56</td>
<td>4.67</td>
<td>1.90</td>
</tr>
<tr>
<td>Nov.</td>
<td>2.76</td>
<td>1.68</td>
<td>2.13</td>
<td>2.48</td>
<td>3.59</td>
<td>4.13</td>
<td>2.37</td>
<td>5.58</td>
<td>2.45</td>
</tr>
<tr>
<td>Dec.</td>
<td>2.36</td>
<td>1.63</td>
<td>2.25</td>
<td>2.78</td>
<td>3.36</td>
<td>3.88</td>
<td>2.81</td>
<td>5.97</td>
<td>2.06</td>
</tr>
<tr>
<td>Jan.</td>
<td>2.17</td>
<td>1.98</td>
<td>2.41</td>
<td>2.68</td>
<td>4.57</td>
<td>4.00</td>
<td>3.59</td>
<td>6.68</td>
<td>2.63</td>
</tr>
<tr>
<td>Feb.</td>
<td>1.68</td>
<td>1.63</td>
<td>2.56</td>
<td>2.47</td>
<td>4.75</td>
<td>4.18</td>
<td>5.58</td>
<td>6.35</td>
<td>3.40</td>
</tr>
<tr>
<td>Mar.</td>
<td>2.03</td>
<td>3.56</td>
<td>2.40</td>
<td>2.68</td>
<td>3.96</td>
<td>3.56</td>
<td>3.57</td>
<td>5.86</td>
<td>3.03</td>
</tr>
<tr>
<td>Apr.</td>
<td>2.15</td>
<td>1.78</td>
<td>2.68</td>
<td>2.68</td>
<td>3.18</td>
<td>2.56</td>
<td>5.28</td>
<td>4.50</td>
<td>3.45</td>
</tr>
<tr>
<td>May 1986</td>
<td>2.01</td>
<td>1.45</td>
<td>2.00</td>
<td>2.68</td>
<td>3.00</td>
<td>2.07</td>
<td>4.50</td>
<td>3.57</td>
<td>2.47</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 7. Concentrations of nitrate - nitrogen (µg at NO$_3^-$-N $^\sim$) in the Cochín estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
</tr>
<tr>
<td>08.76</td>
<td>15.68</td>
<td>16.43</td>
<td>18.36</td>
<td>24.60</td>
<td>25.70</td>
<td>23.70</td>
<td>22.00</td>
<td>16.35</td>
<td>21.86</td>
</tr>
<tr>
<td>09.00</td>
<td>14.38</td>
<td>17.16</td>
<td>19.34</td>
<td>21.91</td>
<td>26.81</td>
<td>23.66</td>
<td>27.60</td>
<td>15.38</td>
<td>20.44</td>
</tr>
<tr>
<td>10.13</td>
<td>13.46</td>
<td>18.38</td>
<td>20.67</td>
<td>22.31</td>
<td>25.92</td>
<td>24.33</td>
<td>30.55</td>
<td>19.70</td>
<td>24.10</td>
</tr>
<tr>
<td>10.16</td>
<td>15.49</td>
<td>15.56</td>
<td>16.57</td>
<td>19.36</td>
<td>26.30</td>
<td>28.94</td>
<td>34.44</td>
<td>19.40</td>
<td>21.27</td>
</tr>
<tr>
<td>12.51</td>
<td>15.57</td>
<td>16.35</td>
<td>18.32</td>
<td>18.87</td>
<td>24.90</td>
<td>30.95</td>
<td>38.95</td>
<td>18.36</td>
<td>22.61</td>
</tr>
<tr>
<td>13.00</td>
<td>16.32</td>
<td>14.80</td>
<td>16.86</td>
<td>14.70</td>
<td>20.81</td>
<td>22.68</td>
<td>38.31</td>
<td>19.61</td>
<td>20.31</td>
</tr>
<tr>
<td>15.81</td>
<td>16.44</td>
<td>14.36</td>
<td>14.32</td>
<td>16.30</td>
<td>16.71</td>
<td>20.90</td>
<td>34.61</td>
<td>18.81</td>
<td>25.41</td>
</tr>
<tr>
<td>14.56</td>
<td>15.61</td>
<td>13.80</td>
<td>14.48</td>
<td>15.52</td>
<td>15.91</td>
<td>20.15</td>
<td>26.48</td>
<td>17.20</td>
<td>22.31</td>
</tr>
<tr>
<td>15.30</td>
<td>14.61</td>
<td>11.30</td>
<td>13.07</td>
<td>14.30</td>
<td>15.31</td>
<td>19.91</td>
<td>19.30</td>
<td>16.14</td>
<td>20.54</td>
</tr>
<tr>
<td>16.90</td>
<td>16.34</td>
<td>09.55</td>
<td>12.42</td>
<td>12.28</td>
<td>14.70</td>
<td>18.71</td>
<td>20.56</td>
<td>18.32</td>
<td>21.61</td>
</tr>
<tr>
<td>10.36</td>
<td>14.08</td>
<td>10.96</td>
<td>10.66</td>
<td>11.97</td>
<td>13.60</td>
<td>17.67</td>
<td>18.15</td>
<td>14.60</td>
<td>18.70</td>
</tr>
<tr>
<td>12.94</td>
<td>13.91</td>
<td>09.88</td>
<td>11.98</td>
<td>10.90</td>
<td>14.35</td>
<td>14.40</td>
<td>17.71</td>
<td>13.40</td>
<td>17.86</td>
</tr>
<tr>
<td>10.80</td>
<td>14.72</td>
<td>09.76</td>
<td>10.71</td>
<td>08.71</td>
<td>13.87</td>
<td>13.68</td>
<td>16.80</td>
<td>11.34</td>
<td>14.60</td>
</tr>
<tr>
<td>10.30</td>
<td>14.06</td>
<td>09.30</td>
<td>12.35</td>
<td>09.60</td>
<td>12.61</td>
<td>14.00</td>
<td>14.60</td>
<td>10.86</td>
<td>15.15</td>
</tr>
<tr>
<td>13.32</td>
<td>13.36</td>
<td>12.55</td>
<td>11.51</td>
<td>11.34</td>
<td>10.81</td>
<td>11.86</td>
<td>12.16</td>
<td>10.32</td>
<td>10.61</td>
</tr>
<tr>
<td>12.78</td>
<td>10.13</td>
<td>12.46</td>
<td>12.17</td>
<td>12.62</td>
<td>13.37</td>
<td>10.90</td>
<td>10.16</td>
<td>13.60</td>
<td>09.91</td>
</tr>
<tr>
<td>14.18</td>
<td>14.13</td>
<td>14.32</td>
<td>13.60</td>
<td>13.81</td>
<td>14.06</td>
<td>11.57</td>
<td>09.87</td>
<td>09.40</td>
<td>08.81</td>
</tr>
<tr>
<td>10.44</td>
<td>10.11</td>
<td>11.11</td>
<td>14.70</td>
<td>11.11</td>
<td>10.00</td>
<td>09.90</td>
<td>14.30</td>
<td>10.63</td>
<td>06.66</td>
</tr>
<tr>
<td>06.00</td>
<td>08.60</td>
<td>09.06</td>
<td>12.86</td>
<td>07.39</td>
<td>09.17</td>
<td>13.73</td>
<td>10.40</td>
<td>11.32</td>
<td>05.90</td>
</tr>
<tr>
<td>05.38</td>
<td>06.81</td>
<td>06.98</td>
<td>09.96</td>
<td>06.50</td>
<td>07.60</td>
<td>10.93</td>
<td>08.96</td>
<td>10.70</td>
<td>06.66</td>
</tr>
<tr>
<td>03.10</td>
<td>04.68</td>
<td>04.13</td>
<td>08.81</td>
<td>04.10</td>
<td>06.71</td>
<td>08.15</td>
<td>07.56</td>
<td>09.08</td>
<td>06.60</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom.
Table 8. Concentrations of ammonia - nitrogen (μg at NH₃-N 1⁻¹) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>05.68</td>
<td>07.86</td>
<td>11.81</td>
<td>16.86</td>
<td>16.98</td>
<td>18.60</td>
<td>12.10</td>
<td>10.82</td>
<td>03.81</td>
<td>07.46</td>
<td>03.01</td>
<td>03.86</td>
<td>02.85</td>
<td>01.90</td>
</tr>
<tr>
<td>04.51</td>
<td>09.07</td>
<td>10.63</td>
<td>13.21</td>
<td>18.32</td>
<td>21.90</td>
<td>10.00</td>
<td>14.46</td>
<td>06.01</td>
<td>08.31</td>
<td>03.01</td>
<td>06.01</td>
<td>00.76</td>
<td>02.31</td>
</tr>
<tr>
<td>05.48</td>
<td>08.08</td>
<td>07.86</td>
<td>14.10</td>
<td>18.16</td>
<td>24.46</td>
<td>07.60</td>
<td>14.40</td>
<td>06.76</td>
<td>09.97</td>
<td>02.61</td>
<td>03.06</td>
<td>00.86</td>
<td>03.06</td>
</tr>
<tr>
<td>03.90</td>
<td>08.11</td>
<td>08.36</td>
<td>15.01</td>
<td>20.16</td>
<td>21.31</td>
<td>10.81</td>
<td>15.01</td>
<td>04.00</td>
<td>10.01</td>
<td>02.01</td>
<td>04.00</td>
<td>00.10</td>
<td>03.36</td>
</tr>
<tr>
<td>02.81</td>
<td>08.63</td>
<td>09.67</td>
<td>13.96</td>
<td>21.10</td>
<td>24.01</td>
<td>11.10</td>
<td>10.86</td>
<td>07.68</td>
<td>12.06</td>
<td>03.61</td>
<td>03.09</td>
<td>00.46</td>
<td>04.68</td>
</tr>
<tr>
<td>02.96</td>
<td>07.87</td>
<td>04.78</td>
<td>13.96</td>
<td>18.06</td>
<td>21.01</td>
<td>12.10</td>
<td>10.86</td>
<td>04.80</td>
<td>12.16</td>
<td>01.67</td>
<td>04.87</td>
<td>00.31</td>
<td>05.96</td>
</tr>
<tr>
<td>02.35</td>
<td>06.43</td>
<td>07.11</td>
<td>14.08</td>
<td>14.68</td>
<td>18.32</td>
<td>09.51</td>
<td>10.30</td>
<td>05.05</td>
<td>11.47</td>
<td>02.32</td>
<td>03.47</td>
<td>01.26</td>
<td>02.90</td>
</tr>
<tr>
<td>03.46</td>
<td>06.55</td>
<td>08.07</td>
<td>11.67</td>
<td>10.41</td>
<td>15.87</td>
<td>08.80</td>
<td>13.60</td>
<td>06.00</td>
<td>12.01</td>
<td>00.96</td>
<td>04.06</td>
<td>01.26</td>
<td>01.10</td>
</tr>
<tr>
<td>02.38</td>
<td>04.66</td>
<td>08.07</td>
<td>09.31</td>
<td>10.01</td>
<td>11.81</td>
<td>06.86</td>
<td>10.71</td>
<td>07.32</td>
<td>09.37</td>
<td>01.18</td>
<td>02.01</td>
<td>00.86</td>
<td>02.30</td>
</tr>
<tr>
<td>01.08</td>
<td>04.77</td>
<td>05.10</td>
<td>08.71</td>
<td>09.93</td>
<td>12.11</td>
<td>06.76</td>
<td>12.11</td>
<td>06.81</td>
<td>08.06</td>
<td>01.06</td>
<td>03.00</td>
<td>02.31</td>
<td>03.60</td>
</tr>
<tr>
<td>00.86</td>
<td>05.41</td>
<td>03.08</td>
<td>02.01</td>
<td>06.11</td>
<td>11.00</td>
<td>03.11</td>
<td>10.97</td>
<td>04.61</td>
<td>07.69</td>
<td>00.63</td>
<td>03.70</td>
<td>00.82</td>
<td>01.47</td>
</tr>
<tr>
<td>03.16</td>
<td>03.66</td>
<td>02.76</td>
<td>09.81</td>
<td>09.91</td>
<td>10.30</td>
<td>03.65</td>
<td>11.06</td>
<td>06.01</td>
<td>07.81</td>
<td>02.36</td>
<td>01.91</td>
<td>01.10</td>
<td>00.87</td>
</tr>
<tr>
<td>02.38</td>
<td>08.31</td>
<td>03.46</td>
<td>06.07</td>
<td>06.95</td>
<td>09.82</td>
<td>02.85</td>
<td>10.06</td>
<td>04.28</td>
<td>06.01</td>
<td>01.96</td>
<td>01.01</td>
<td>01.10</td>
<td>01.08</td>
</tr>
<tr>
<td>04.08</td>
<td>06.08</td>
<td>03.80</td>
<td>04.56</td>
<td>08.20</td>
<td>09.62</td>
<td>06.06</td>
<td>09.81</td>
<td>02.57</td>
<td>07.30</td>
<td>00.87</td>
<td>01.01</td>
<td>00.30</td>
<td>01.57</td>
</tr>
<tr>
<td>05.46</td>
<td>04.41</td>
<td>06.67</td>
<td>08.71</td>
<td>10.10</td>
<td>09.47</td>
<td>08.30</td>
<td>10.41</td>
<td>03.18</td>
<td>06.60</td>
<td>01.11</td>
<td>02.06</td>
<td>00.81</td>
<td>01.87</td>
</tr>
<tr>
<td>06.06</td>
<td>02.86</td>
<td>09.00</td>
<td>07.98</td>
<td>11.00</td>
<td>12.54</td>
<td>08.25</td>
<td>10.50</td>
<td>03.18</td>
<td>06.01</td>
<td>02.76</td>
<td>03.96</td>
<td>01.26</td>
<td>00.91</td>
</tr>
<tr>
<td>05.18</td>
<td>03.87</td>
<td>09.16</td>
<td>06.91</td>
<td>09.87</td>
<td>09.56</td>
<td>10.11</td>
<td>10.41</td>
<td>03.68</td>
<td>05.96</td>
<td>02.61</td>
<td>02.87</td>
<td>00.90</td>
<td>02.07</td>
</tr>
<tr>
<td>05.40</td>
<td>04.46</td>
<td>10.96</td>
<td>09.70</td>
<td>08.94</td>
<td>10.05</td>
<td>07.41</td>
<td>09.85</td>
<td>05.61</td>
<td>04.44</td>
<td>01.63</td>
<td>03.41</td>
<td>00.46</td>
<td>00.38</td>
</tr>
<tr>
<td>06.36</td>
<td>05.31</td>
<td>11.00</td>
<td>10.06</td>
<td>06.36</td>
<td>11.00</td>
<td>09.34</td>
<td>11.30</td>
<td>04.30</td>
<td>03.33</td>
<td>03.01</td>
<td>02.10</td>
<td>01.28</td>
<td>00.16</td>
</tr>
<tr>
<td>06.16</td>
<td>07.06</td>
<td>10.00</td>
<td>09.87</td>
<td>04.85</td>
<td>10.06</td>
<td>12.06</td>
<td>07.38</td>
<td>03.83</td>
<td>02.86</td>
<td>01.06</td>
<td>00.36</td>
<td>00.80</td>
<td>00.07</td>
</tr>
<tr>
<td>05.84</td>
<td>07.86</td>
<td>08.75</td>
<td>10.45</td>
<td>05.85</td>
<td>09.85</td>
<td>09.10</td>
<td>08.08</td>
<td>05.81</td>
<td>04.44</td>
<td>04.01</td>
<td>00.91</td>
<td>00.06</td>
<td>00.07</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 9. Concentration levels of Phosphorus (µg at P l⁻¹) in some water systems

<table>
<thead>
<tr>
<th>Water system</th>
<th>Concentration (µg at P l⁻¹)</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural drainage</td>
<td>1.6 - 32.0</td>
<td></td>
</tr>
<tr>
<td>Lake surface water</td>
<td>0.3 - 1.3</td>
<td>Snoeyink &amp; Jenkins, 1980.</td>
</tr>
<tr>
<td>(Domestic waste water)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orthophosphate</td>
<td>160.0</td>
<td>Stumm &amp; Morgan, 1970.</td>
</tr>
<tr>
<td>Triphosphate</td>
<td>97.0</td>
<td></td>
</tr>
<tr>
<td>Pyrophosphate</td>
<td>32.0</td>
<td></td>
</tr>
<tr>
<td>Organic phosphate</td>
<td>32.0</td>
<td></td>
</tr>
<tr>
<td>(Estuarine system)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tamar estuary - England</td>
<td>0.0 - 1.3</td>
<td>Morris et al., 1981.</td>
</tr>
<tr>
<td>Delaware estuary - USA</td>
<td>0.05 - 5.0</td>
<td>Sharp et al., 1982.</td>
</tr>
<tr>
<td>Mandovi-Zuari-India</td>
<td>1.3 - 7.5</td>
<td>Qasim &amp; Sen Gupta, 1981.</td>
</tr>
</tbody>
</table>
Table 10. Concentrations of inorganic reactive phosphorus (μg at PO₄³⁻-P l⁻¹) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>Station</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
</tr>
<tr>
<td>Jun. 1985</td>
<td>01.23</td>
<td>04.07</td>
<td>00.43</td>
<td>04.90</td>
<td>00.57</td>
<td>03.11</td>
<td>01.63</td>
<td>03.81</td>
<td>02.41</td>
</tr>
<tr>
<td>Jul.</td>
<td>02.06</td>
<td>02.31</td>
<td>00.68</td>
<td>03.23</td>
<td>02.10</td>
<td>03.47</td>
<td>02.03</td>
<td>01.80</td>
<td>01.87</td>
</tr>
<tr>
<td>Sep.</td>
<td>03.06</td>
<td>01.07</td>
<td>01.66</td>
<td>03.01</td>
<td>01.45</td>
<td>04.07</td>
<td>03.38</td>
<td>03.41</td>
<td>02.06</td>
</tr>
<tr>
<td>Oct.</td>
<td>03.65</td>
<td>02.45</td>
<td>02.63</td>
<td>03.07</td>
<td>03.84</td>
<td>02.80</td>
<td>04.86</td>
<td>03.78</td>
<td>02.84</td>
</tr>
<tr>
<td>Nov.</td>
<td>02.76</td>
<td>03.10</td>
<td>02.84</td>
<td>02.10</td>
<td>05.60</td>
<td>05.67</td>
<td>05.67</td>
<td>03.07</td>
<td>02.06</td>
</tr>
<tr>
<td>Dec.</td>
<td>02.01</td>
<td>03.03</td>
<td>03.11</td>
<td>05.61</td>
<td>06.78</td>
<td>06.18</td>
<td>04.30</td>
<td>03.71</td>
<td>04.07</td>
</tr>
<tr>
<td>Jan.</td>
<td>01.23</td>
<td>02.98</td>
<td>02.93</td>
<td>06.34</td>
<td>07.90</td>
<td>07.91</td>
<td>05.98</td>
<td>05.62</td>
<td>02.20</td>
</tr>
<tr>
<td>Feb.</td>
<td>00.97</td>
<td>02.08</td>
<td>03.87</td>
<td>04.54</td>
<td>09.71</td>
<td>09.78</td>
<td>04.38</td>
<td>08.42</td>
<td>01.07</td>
</tr>
<tr>
<td>Mar.</td>
<td>01.06</td>
<td>02.97</td>
<td>03.01</td>
<td>07.31</td>
<td>08.78</td>
<td>13.21</td>
<td>04.37</td>
<td>06.87</td>
<td>01.77</td>
</tr>
<tr>
<td>Apr.</td>
<td>01.10</td>
<td>03.91</td>
<td>04.30</td>
<td>09.93</td>
<td>09.31</td>
<td>15.61</td>
<td>06.87</td>
<td>05.60</td>
<td>02.31</td>
</tr>
<tr>
<td>May</td>
<td>03.12</td>
<td>03.81</td>
<td>05.08</td>
<td>08.21</td>
<td>06.38</td>
<td>13.91</td>
<td>06.07</td>
<td>08.73</td>
<td>03.74</td>
</tr>
<tr>
<td>1986</td>
<td>03.06</td>
<td>02.48</td>
<td>04.07</td>
<td>07.10</td>
<td>09.38</td>
<td>12.73</td>
<td>07.90</td>
<td>09.69</td>
<td>01.84</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 11. Concentrations of dissolved organic phosphorus (μg at P$_{4}^{3-}$-P $l^{-1}$) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>Ion</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
</tr>
<tr>
<td>00.82</td>
<td>01.06</td>
<td>02.01</td>
<td>02.60</td>
<td>02.71</td>
<td>02.06</td>
<td>01.07</td>
<td>01.10</td>
<td>00.30</td>
<td>00.50</td>
</tr>
<tr>
<td>01.10</td>
<td>01.38</td>
<td>00.91</td>
<td>03.13</td>
<td>02.18</td>
<td>03.14</td>
<td>01.08</td>
<td>01.00</td>
<td>00.61</td>
<td>00.87</td>
</tr>
<tr>
<td>01.87</td>
<td>01.18</td>
<td>02.43</td>
<td>02.93</td>
<td>02.01</td>
<td>02.15</td>
<td>01.31</td>
<td>01.01</td>
<td>00.24</td>
<td>00.96</td>
</tr>
<tr>
<td>01.41</td>
<td>02.56</td>
<td>03.00</td>
<td>03.41</td>
<td>01.97</td>
<td>03.80</td>
<td>01.46</td>
<td>02.07</td>
<td>00.77</td>
<td>01.02</td>
</tr>
<tr>
<td>02.65</td>
<td>02.75</td>
<td>02.67</td>
<td>03.78</td>
<td>01.78</td>
<td>03.98</td>
<td>01.71</td>
<td>01.93</td>
<td>01.40</td>
<td>01.36</td>
</tr>
<tr>
<td>03.14</td>
<td>03.27</td>
<td>02.78</td>
<td>02.08</td>
<td>03.14</td>
<td>04.01</td>
<td>02.74</td>
<td>02.44</td>
<td>02.10</td>
<td>00.96</td>
</tr>
<tr>
<td>02.87</td>
<td>04.10</td>
<td>03.00</td>
<td>04.78</td>
<td>03.45</td>
<td>04.38</td>
<td>02.01</td>
<td>02.32</td>
<td>03.38</td>
<td>02.29</td>
</tr>
<tr>
<td>03.41</td>
<td>03.61</td>
<td>03.68</td>
<td>04.08</td>
<td>04.41</td>
<td>03.08</td>
<td>01.70</td>
<td>04.18</td>
<td>01.16</td>
<td>02.66</td>
</tr>
<tr>
<td>04.07</td>
<td>02.41</td>
<td>03.70</td>
<td>03.32</td>
<td>04.17</td>
<td>04.17</td>
<td>02.64</td>
<td>03.81</td>
<td>00.46</td>
<td>02.16</td>
</tr>
<tr>
<td>02.97</td>
<td>02.93</td>
<td>03.36</td>
<td>04.30</td>
<td>02.15</td>
<td>05.50</td>
<td>00.46</td>
<td>03.96</td>
<td>00.57</td>
<td>03.16</td>
</tr>
<tr>
<td>03.20</td>
<td>02.36</td>
<td>03.73</td>
<td>03.10</td>
<td>03.36</td>
<td>06.09</td>
<td>01.76</td>
<td>02.93</td>
<td>00.34</td>
<td>02.03</td>
</tr>
<tr>
<td>03.90</td>
<td>03.18</td>
<td>03.20</td>
<td>02.93</td>
<td>03.41</td>
<td>05.86</td>
<td>00.76</td>
<td>04.87</td>
<td>01.30</td>
<td>02.30</td>
</tr>
<tr>
<td>01.71</td>
<td>01.97</td>
<td>03.67</td>
<td>03.03</td>
<td>01.16</td>
<td>04.44</td>
<td>01.06</td>
<td>03.56</td>
<td>00.45</td>
<td>02.40</td>
</tr>
<tr>
<td>01.81</td>
<td>01.93</td>
<td>02.56</td>
<td>02.98</td>
<td>02.51</td>
<td>04.36</td>
<td>01.80</td>
<td>03.41</td>
<td>00.84</td>
<td>03.51</td>
</tr>
<tr>
<td>01.46</td>
<td>02.03</td>
<td>02.60</td>
<td>01.90</td>
<td>01.91</td>
<td>03.40</td>
<td>00.96</td>
<td>02.90</td>
<td>00.76</td>
<td>03.00</td>
</tr>
<tr>
<td>02.03</td>
<td>02.76</td>
<td>01.90</td>
<td>01.63</td>
<td>00.96</td>
<td>02.70</td>
<td>01.11</td>
<td>02.80</td>
<td>01.96</td>
<td>02.06</td>
</tr>
<tr>
<td>01.01</td>
<td>00.97</td>
<td>02.40</td>
<td>01.87</td>
<td>02.13</td>
<td>02.06</td>
<td>01.27</td>
<td>02.45</td>
<td>00.63</td>
<td>01.96</td>
</tr>
<tr>
<td>01.87</td>
<td>02.06</td>
<td>01.60</td>
<td>02.16</td>
<td>01.46</td>
<td>02.03</td>
<td>01.14</td>
<td>02.06</td>
<td>01.31</td>
<td>02.16</td>
</tr>
<tr>
<td>00.70</td>
<td>02.30</td>
<td>02.69</td>
<td>02.51</td>
<td>02.81</td>
<td>01.29</td>
<td>00.98</td>
<td>02.20</td>
<td>01.56</td>
<td>01.79</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 12. Concentrations of particulate reactive phosphorus (μg at PO$_4^{3-}$ - P l$^{-1}$) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00.96</td>
<td>01.38</td>
<td>01.62</td>
<td>01.08</td>
<td>01.68</td>
<td>01.08</td>
<td>00.68</td>
<td>01.67</td>
<td>00.79</td>
</tr>
<tr>
<td>00.84</td>
<td>00.68</td>
<td>01.56</td>
<td>01.32</td>
<td>01.52</td>
<td>01.20</td>
<td>00.82</td>
<td>01.41</td>
<td>00.86</td>
</tr>
<tr>
<td>00.61</td>
<td>00.96</td>
<td>01.20</td>
<td>01.68</td>
<td>01.30</td>
<td>01.55</td>
<td>00.76</td>
<td>01.22</td>
<td>02.81</td>
</tr>
<tr>
<td>00.76</td>
<td>01.18</td>
<td>01.18</td>
<td>02.08</td>
<td>01.10</td>
<td>02.06</td>
<td>00.68</td>
<td>01.22</td>
<td>00.34</td>
</tr>
<tr>
<td>00.89</td>
<td>00.98</td>
<td>01.06</td>
<td>01.62</td>
<td>00.86</td>
<td>01.55</td>
<td>00.72</td>
<td>00.44</td>
<td>00.48</td>
</tr>
<tr>
<td>00.80</td>
<td>00.86</td>
<td>01.06</td>
<td>01.20</td>
<td>01.51</td>
<td>01.26</td>
<td>00.82</td>
<td>00.33</td>
<td>00.29</td>
</tr>
<tr>
<td>00.74</td>
<td>00.88</td>
<td>00.86</td>
<td>01.22</td>
<td>00.68</td>
<td>00.99</td>
<td>00.76</td>
<td>01.08</td>
<td>00.38</td>
</tr>
<tr>
<td>00.58</td>
<td>00.66</td>
<td>00.86</td>
<td>00.88</td>
<td>00.77</td>
<td>00.86</td>
<td>00.62</td>
<td>00.80</td>
<td>00.41</td>
</tr>
<tr>
<td>00.68</td>
<td>00.33</td>
<td>00.68</td>
<td>00.68</td>
<td>00.82</td>
<td>00.28</td>
<td>00.56</td>
<td>01.00</td>
<td>00.52</td>
</tr>
<tr>
<td>00.57</td>
<td>00.42</td>
<td>00.76</td>
<td>00.42</td>
<td>00.92</td>
<td>01.00</td>
<td>00.40</td>
<td>01.20</td>
<td>00.82</td>
</tr>
<tr>
<td>00.39</td>
<td>00.66</td>
<td>00.39</td>
<td>00.36</td>
<td>00.40</td>
<td>00.33</td>
<td>00.68</td>
<td>00.66</td>
<td>00.63</td>
</tr>
<tr>
<td>00.46</td>
<td>00.32</td>
<td>00.40</td>
<td>00.33</td>
<td>00.42</td>
<td>00.44</td>
<td>00.76</td>
<td>00.81</td>
<td>00.72</td>
</tr>
<tr>
<td>00.42</td>
<td>00.56</td>
<td>00.68</td>
<td>00.57</td>
<td>00.88</td>
<td>00.50</td>
<td>00.80</td>
<td>00.41</td>
<td>00.47</td>
</tr>
<tr>
<td>00.40</td>
<td>00.48</td>
<td>00.72</td>
<td>00.45</td>
<td>00.38</td>
<td>00.50</td>
<td>00.58</td>
<td>00.41</td>
<td>00.33</td>
</tr>
<tr>
<td>00.59</td>
<td>00.32</td>
<td>00.56</td>
<td>00.76</td>
<td>00.40</td>
<td>00.82</td>
<td>00.46</td>
<td>00.00</td>
<td>00.30</td>
</tr>
<tr>
<td>00.23</td>
<td>00.26</td>
<td>00.54</td>
<td>00.37</td>
<td>00.32</td>
<td>00.38</td>
<td>00.33</td>
<td>00.66</td>
<td>00.39</td>
</tr>
<tr>
<td>00.34</td>
<td>00.39</td>
<td>00.40</td>
<td>00.40</td>
<td>00.08</td>
<td>02.21</td>
<td>00.26</td>
<td>00.80</td>
<td>00.46</td>
</tr>
<tr>
<td>00.02</td>
<td>00.62</td>
<td>00.08</td>
<td>00.28</td>
<td>00.12</td>
<td>00.66</td>
<td>00.08</td>
<td>00.44</td>
<td>00.39</td>
</tr>
<tr>
<td>00.44</td>
<td>00.34</td>
<td>00.26</td>
<td>00.18</td>
<td>00.00</td>
<td>00.40</td>
<td>00.02</td>
<td>00.44</td>
<td>00.24</td>
</tr>
<tr>
<td>00.14</td>
<td>00.76</td>
<td>00.00</td>
<td>00.32</td>
<td>00.00</td>
<td>00.62</td>
<td>00.09</td>
<td>00.44</td>
<td>00.08</td>
</tr>
<tr>
<td>00.17</td>
<td>00.32</td>
<td>00.10</td>
<td>00.28</td>
<td>00.06</td>
<td>00.30</td>
<td>00.10</td>
<td>00.56</td>
<td>00.13</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 13. Concentrations of total reactive phosphorus (μg at PO₄³⁻-P) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>mnth</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>02.05</td>
<td>05.13</td>
<td>02.44</td>
<td>07.50</td>
<td>03.28</td>
<td>05.17</td>
<td>02.70</td>
<td>04.91</td>
<td>02.71</td>
</tr>
<tr>
<td>85</td>
<td>02.17</td>
<td>03.39</td>
<td>01.19</td>
<td>07.31</td>
<td>03.08</td>
<td>05.15</td>
<td>02.22</td>
<td>03.96</td>
<td>03.68</td>
</tr>
<tr>
<td>l.</td>
<td>03.93</td>
<td>03.49</td>
<td>03.11</td>
<td>06.16</td>
<td>04.11</td>
<td>05.62</td>
<td>03.34</td>
<td>02.81</td>
<td>02.11</td>
</tr>
<tr>
<td>3.86</td>
<td>03.63</td>
<td>04.66</td>
<td>06.42</td>
<td>03.42</td>
<td>07.87</td>
<td>04.84</td>
<td>05.48</td>
<td>02.83</td>
<td>04.20</td>
</tr>
<tr>
<td>g.</td>
<td>05.71</td>
<td>03.76</td>
<td>03.69</td>
<td>06.68</td>
<td>03.79</td>
<td>06.98</td>
<td>03.81</td>
<td>06.91</td>
<td>04.87</td>
</tr>
<tr>
<td>p.</td>
<td>06.79</td>
<td>05.72</td>
<td>05.41</td>
<td>05.15</td>
<td>06.98</td>
<td>06.81</td>
<td>07.60</td>
<td>06.22</td>
<td>04.94</td>
</tr>
<tr>
<td>7.04</td>
<td>08.31</td>
<td>04.80</td>
<td>07.18</td>
<td>08.35</td>
<td>08.48</td>
<td>05.92</td>
<td>07.42</td>
<td>03.38</td>
<td>05.30</td>
</tr>
<tr>
<td>t.</td>
<td>07.31</td>
<td>04.83</td>
<td>07.15</td>
<td>07.24</td>
<td>08.31</td>
<td>06.05</td>
<td>04.77</td>
<td>09.05</td>
<td>04.03</td>
</tr>
<tr>
<td>7.13</td>
<td>04.72</td>
<td>07.67</td>
<td>07.53</td>
<td>07.27</td>
<td>07.25</td>
<td>06.73</td>
<td>07.88</td>
<td>02.60</td>
<td>04.89</td>
</tr>
<tr>
<td>v.</td>
<td>05.73</td>
<td>06.03</td>
<td>06.20</td>
<td>06.40</td>
<td>07.75</td>
<td>11.17</td>
<td>06.13</td>
<td>07.03</td>
<td>02.63</td>
</tr>
<tr>
<td>c.</td>
<td>05.21</td>
<td>06.39</td>
<td>06.84</td>
<td>08.71</td>
<td>10.14</td>
<td>12.27</td>
<td>06.06</td>
<td>06.64</td>
<td>04.41</td>
</tr>
<tr>
<td>5.13</td>
<td>06.16</td>
<td>06.13</td>
<td>09.27</td>
<td>11.31</td>
<td>13.77</td>
<td>06.74</td>
<td>10.49</td>
<td>03.50</td>
<td>04.31</td>
</tr>
<tr>
<td>r.</td>
<td>02.14</td>
<td>04.46</td>
<td>06.97</td>
<td>07.61</td>
<td>11.72</td>
<td>10.96</td>
<td>07.40</td>
<td>11.98</td>
<td>02.03</td>
</tr>
<tr>
<td>2.43</td>
<td>05.58</td>
<td>07.14</td>
<td>10.59</td>
<td>11.03</td>
<td>13.32</td>
<td>06.13</td>
<td>10.95</td>
<td>01.53</td>
<td>06.71</td>
</tr>
<tr>
<td>b.</td>
<td>02.08</td>
<td>04.99</td>
<td>05.74</td>
<td>11.59</td>
<td>14.12</td>
<td>14.66</td>
<td>06.36</td>
<td>10.42</td>
<td>04.48</td>
</tr>
<tr>
<td>r.</td>
<td>02.77</td>
<td>04.94</td>
<td>04.77</td>
<td>09.37</td>
<td>10.49</td>
<td>16.08</td>
<td>06.37</td>
<td>09.84</td>
<td>02.64</td>
</tr>
<tr>
<td>0.56</td>
<td>05.94</td>
<td>06.90</td>
<td>11.83</td>
<td>11.22</td>
<td>19.01</td>
<td>07.83</td>
<td>08.50</td>
<td>03.07</td>
<td>05.07</td>
</tr>
<tr>
<td>r.</td>
<td>03.35</td>
<td>06.57</td>
<td>06.98</td>
<td>08.94</td>
<td>07.34</td>
<td>16.61</td>
<td>07.18</td>
<td>11.53</td>
<td>05.70</td>
</tr>
<tr>
<td>04.07</td>
<td>03.45</td>
<td>06.47</td>
<td>08.97</td>
<td>11.51</td>
<td>14.79</td>
<td>09.17</td>
<td>12.14</td>
<td>02.47</td>
<td>06.57</td>
</tr>
<tr>
<td>v.</td>
<td>05.94</td>
<td>06.36</td>
<td>08.30</td>
<td>10.36</td>
<td>07.03</td>
<td>15.84</td>
<td>06.55</td>
<td>10.76</td>
<td>04.64</td>
</tr>
<tr>
<td>6</td>
<td>03.84</td>
<td>06.31</td>
<td>07.79</td>
<td>08.81</td>
<td>07.25</td>
<td>14.30</td>
<td>04.79</td>
<td>09.90</td>
<td>03.87</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom
Table 14. Size composition and moisture (weight percentage) of sediment

<table>
<thead>
<tr>
<th>Stn No.</th>
<th>Season</th>
<th>Nature of sediment</th>
<th>Sand(%) (&gt;63μ)</th>
<th>Silt(%) (4-63μ)</th>
<th>Clay(%) (&lt;4μ)</th>
<th>Moisture (%)</th>
<th>Depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>Sand</td>
<td>80.5</td>
<td>14.5</td>
<td>5.0</td>
<td>36.4</td>
<td>7.2</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Sand</td>
<td>85.8</td>
<td>8.0</td>
<td>6.2</td>
<td>32.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Sand</td>
<td>80.5</td>
<td>12.4</td>
<td>7.1</td>
<td>30.3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>Silty clay</td>
<td>3.8</td>
<td>45.4</td>
<td>50.8</td>
<td>68.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Silty clay</td>
<td>7.5</td>
<td>37.0</td>
<td>55.5</td>
<td>63.0</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Silty clay</td>
<td>3.5</td>
<td>36.3</td>
<td>60.2</td>
<td>60.2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>Clayey silt</td>
<td>4.1</td>
<td>58.3</td>
<td>37.6</td>
<td>71.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Clayey silt</td>
<td>3.0</td>
<td>53.5</td>
<td>43.5</td>
<td>66.6</td>
<td>3.4</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Clayey silt</td>
<td>7.1</td>
<td>48.5</td>
<td>44.4</td>
<td>60.5</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>A</td>
<td>Silty clay</td>
<td>18.0</td>
<td>39.5</td>
<td>42.5</td>
<td>44.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Silty clay</td>
<td>27.5</td>
<td>28.5</td>
<td>44.0</td>
<td>40.0</td>
<td>12.2</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Silty clay</td>
<td>24.6</td>
<td>35.4</td>
<td>40.0</td>
<td>41.6</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>Silty clay</td>
<td>20.0</td>
<td>34.0</td>
<td>46.0</td>
<td>51.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Silty clay</td>
<td>20.0</td>
<td>30.5</td>
<td>49.5</td>
<td>50.3</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Silty clay</td>
<td>26.0</td>
<td>24.0</td>
<td>50.0</td>
<td>47.6</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>A</td>
<td>Clayey sand</td>
<td>42.0</td>
<td>29.6</td>
<td>28.4</td>
<td>49.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Clayey sand</td>
<td>58.0</td>
<td>17.5</td>
<td>24.5</td>
<td>45.3</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Clayey sand</td>
<td>48.0</td>
<td>20.0</td>
<td>32.0</td>
<td>41.3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>Clayey sand</td>
<td>63.0</td>
<td>19.5</td>
<td>17.5</td>
<td>44.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Clayey sand</td>
<td>63.0</td>
<td>12.9</td>
<td>24.1</td>
<td>36.3</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Clayey sand</td>
<td>75.0</td>
<td>10.5</td>
<td>14.5</td>
<td>39.0</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>A</td>
<td>Clayey sand</td>
<td>61.0</td>
<td>13.5</td>
<td>25.5</td>
<td>50.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Clayey sand</td>
<td>66.0</td>
<td>15.3</td>
<td>18.7</td>
<td>43.8</td>
<td>3.1</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Clayey sand</td>
<td>70.0</td>
<td>10.0</td>
<td>20.0</td>
<td>47.0</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>A</td>
<td>Clayey sand</td>
<td>68.3</td>
<td>10.7</td>
<td>21.0</td>
<td>44.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Clayey sand</td>
<td>62.6</td>
<td>9.1</td>
<td>28.3</td>
<td>42.0</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Clayey sand</td>
<td>64.0</td>
<td>9.6</td>
<td>26.4</td>
<td>39.6</td>
<td></td>
</tr>
</tbody>
</table>

* A - Monsoon, B - Postmonsoon, C - Premonsoon.

° Tidally averaged for premonsoon.
<table>
<thead>
<tr>
<th>Month</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
<th>IP</th>
<th>AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>un.</td>
<td>27.65</td>
<td>29.31</td>
<td>33.33</td>
<td>57.10</td>
<td>43.71</td>
<td>70.11</td>
<td>34.66</td>
<td>75.10</td>
<td>28.81</td>
<td>51.14</td>
<td>14.38</td>
<td>10.10</td>
<td>25.31</td>
<td>09.99</td>
<td>17.34</td>
<td>20.10</td>
</tr>
<tr>
<td>985</td>
<td>21.34</td>
<td>21.10</td>
<td>36.66</td>
<td>51.03</td>
<td>51.13</td>
<td>75.13</td>
<td>30.66</td>
<td>60.27</td>
<td>30.66</td>
<td>55.20</td>
<td>20.60</td>
<td>35.20</td>
<td>13.38</td>
<td>21.62</td>
<td>16.30</td>
<td>19.57</td>
</tr>
<tr>
<td>ul.</td>
<td>23.81</td>
<td>27.38</td>
<td>35.55</td>
<td>43.67</td>
<td>40.20</td>
<td>71.20</td>
<td>36.36</td>
<td>61.11</td>
<td>26.18</td>
<td>51.20</td>
<td>19.74</td>
<td>34.26</td>
<td>15.71</td>
<td>28.66</td>
<td>19.07</td>
<td>20.62</td>
</tr>
<tr>
<td>20.36</td>
<td>21.71</td>
<td>29.41</td>
<td>51.36</td>
<td>45.18</td>
<td>65.26</td>
<td>13.71</td>
<td>51.67</td>
<td>27.60</td>
<td>49.18</td>
<td>22.18</td>
<td>32.18</td>
<td>16.69</td>
<td>29.64</td>
<td>15.07</td>
<td>25.13</td>
<td>19.91</td>
</tr>
<tr>
<td>ug.</td>
<td>25.38</td>
<td>26.69</td>
<td>20.30</td>
<td>44.71</td>
<td>43.81</td>
<td>60.18</td>
<td>33.88</td>
<td>50.43</td>
<td>26.03</td>
<td>43.28</td>
<td>26.09</td>
<td>20.18</td>
<td>19.73</td>
<td>34.31</td>
<td>20.31</td>
<td>25.14</td>
</tr>
<tr>
<td>ct.</td>
<td>15.46</td>
<td>25.63</td>
<td>30.80</td>
<td>40.45</td>
<td>43.56</td>
<td>56.18</td>
<td>21.10</td>
<td>44.42</td>
<td>24.09</td>
<td>45.44</td>
<td>17.42</td>
<td>27.37</td>
<td>21.61</td>
<td>35.89</td>
<td>23.71</td>
<td>35.32</td>
</tr>
<tr>
<td>cv.</td>
<td>20.06</td>
<td>20.14</td>
<td>26.44</td>
<td>38.67</td>
<td>35.54</td>
<td>57.31</td>
<td>30.71</td>
<td>48.57</td>
<td>20.31</td>
<td>40.67</td>
<td>20.40</td>
<td>23.30</td>
<td>25.38</td>
<td>24.28</td>
<td>25.41</td>
<td>19.50</td>
</tr>
<tr>
<td>sc.</td>
<td>21.34</td>
<td>17.17</td>
<td>23.70</td>
<td>33.61</td>
<td>32.32</td>
<td>45.46</td>
<td>30.08</td>
<td>33.00</td>
<td>23.34</td>
<td>35.23</td>
<td>19.38</td>
<td>24.44</td>
<td>26.91</td>
<td>28.19</td>
<td>25.52</td>
<td>15.62</td>
</tr>
<tr>
<td>14.80</td>
<td>16.60</td>
<td>23.37</td>
<td>34.41</td>
<td>27.71</td>
<td>42.17</td>
<td>19.18</td>
<td>35.07</td>
<td>20.44</td>
<td>30.43</td>
<td>17.61</td>
<td>20.20</td>
<td>20.70</td>
<td>21.17</td>
<td>20.37</td>
<td>16.53</td>
<td>21.62</td>
</tr>
<tr>
<td>7.93</td>
<td>15.54</td>
<td>20.61</td>
<td>26.16</td>
<td>29.60</td>
<td>34.20</td>
<td>20.34</td>
<td>30.00</td>
<td>21.37</td>
<td>26.33</td>
<td>10.70</td>
<td>25.18</td>
<td>25.41</td>
<td>20.27</td>
<td>20.60</td>
<td>10.67</td>
<td>20.21</td>
</tr>
<tr>
<td>10.10</td>
<td>10.10</td>
<td>17.95</td>
<td>25.01</td>
<td>29.66</td>
<td>28.71</td>
<td>25.60</td>
<td>29.63</td>
<td>20.10</td>
<td>20.41</td>
<td>14.60</td>
<td>27.31</td>
<td>20.04</td>
<td>19.18</td>
<td>18.10</td>
<td>20.71</td>
<td>14.46</td>
</tr>
<tr>
<td>11.38</td>
<td>0.63</td>
<td>16.73</td>
<td>10.06</td>
<td>24.41</td>
<td>16.38</td>
<td>13.60</td>
<td>27.94</td>
<td>17.19</td>
<td>17.01</td>
<td>10.37</td>
<td>27.82</td>
<td>23.48</td>
<td>14.61</td>
<td>13.99</td>
<td>17.23</td>
<td>12.83</td>
</tr>
<tr>
<td>0.81</td>
<td>13.70</td>
<td>13.38</td>
<td>16.06</td>
<td>15.43</td>
<td>16.81</td>
<td>27.44</td>
<td>13.88</td>
<td>20.31</td>
<td>14.47</td>
<td>13.40</td>
<td>17.17</td>
<td>17.40</td>
<td>19.63</td>
<td>18.93</td>
<td>15.70</td>
<td>17.18</td>
</tr>
</tbody>
</table>

Table 15. Concentrations of interstitial and adsorbed sediment phosphorus (µg at PO₄⁻-P g⁻¹) in the Cochin estuary during June 1985 to May 1986.

IP - Interstitial phosphorus, AP - Adsorbed Phosphorus
Table 16. Concentrations of inorganic reactive silicate-silicon (µg at SiO\(_4^{d-}\) Si l\(^{-1}\)) in the Cochin estuary during June 1985 to May 1986.

<table>
<thead>
<tr>
<th>Station</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
<td>B</td>
<td>S</td>
</tr>
<tr>
<td>Jun. 1985</td>
<td>137.3</td>
<td>120.2</td>
<td>138.9</td>
<td>135.9</td>
<td>132.7</td>
<td>130.7</td>
<td>137.7</td>
<td>120.0</td>
<td>142.4</td>
</tr>
<tr>
<td>Jul.</td>
<td>124.9</td>
<td>103.3</td>
<td>140.3</td>
<td>128.0</td>
<td>136.6</td>
<td>135.7</td>
<td>135.6</td>
<td>105.1</td>
<td>136.4</td>
</tr>
<tr>
<td>Aug.</td>
<td>128.6</td>
<td>097.4</td>
<td>135.1</td>
<td>137.8</td>
<td>133.3</td>
<td>123.6</td>
<td>117.8</td>
<td>113.2</td>
<td>130.7</td>
</tr>
<tr>
<td>Sep.</td>
<td>111.6</td>
<td>090.1</td>
<td>120.5</td>
<td>117.8</td>
<td>131.6</td>
<td>138.2</td>
<td>121.3</td>
<td>090.3</td>
<td>127.7</td>
</tr>
<tr>
<td>Oct.</td>
<td>113.9</td>
<td>075.8</td>
<td>137.5</td>
<td>120.2</td>
<td>135.8</td>
<td>120.2</td>
<td>113.8</td>
<td>098.2</td>
<td>120.8</td>
</tr>
<tr>
<td>Nov.</td>
<td>106.8</td>
<td>071.7</td>
<td>129.6</td>
<td>098.2</td>
<td>131.3</td>
<td>105.5</td>
<td>104.6</td>
<td>095.1</td>
<td>133.9</td>
</tr>
<tr>
<td>Dec.</td>
<td>100.4</td>
<td>060.8</td>
<td>118.1</td>
<td>090.1</td>
<td>127.0</td>
<td>097.7</td>
<td>100.9</td>
<td>090.6</td>
<td>105.3</td>
</tr>
<tr>
<td>Jan.</td>
<td>091.8</td>
<td>050.8</td>
<td>100.4</td>
<td>093.0</td>
<td>117.8</td>
<td>083.5</td>
<td>103.8</td>
<td>077.5</td>
<td>107.5</td>
</tr>
<tr>
<td>Feb.</td>
<td>080.4</td>
<td>059.5</td>
<td>103.2</td>
<td>075.0</td>
<td>098.0</td>
<td>075.1</td>
<td>098.7</td>
<td>081.7</td>
<td>093.5</td>
</tr>
<tr>
<td>Mar.</td>
<td>084.4</td>
<td>045.9</td>
<td>101.8</td>
<td>063.6</td>
<td>103.2</td>
<td>071.1</td>
<td>090.8</td>
<td>075.4</td>
<td>091.5</td>
</tr>
<tr>
<td>Apr.</td>
<td>080.6</td>
<td>040.7</td>
<td>098.7</td>
<td>050.5</td>
<td>090.8</td>
<td>078.0</td>
<td>067.7</td>
<td>067.3</td>
<td>077.0</td>
</tr>
<tr>
<td>May</td>
<td>070.3</td>
<td>045.3</td>
<td>089.5</td>
<td>059.6</td>
<td>083.3</td>
<td>060.5</td>
<td>075.1</td>
<td>041.1</td>
<td>071.0</td>
</tr>
<tr>
<td>Jun.</td>
<td>062.7</td>
<td>051.7</td>
<td>091.4</td>
<td>051.3</td>
<td>080.6</td>
<td>063.3</td>
<td>071.8</td>
<td>049.9</td>
<td>061.4</td>
</tr>
<tr>
<td>Jul.</td>
<td>057.3</td>
<td>060.8</td>
<td>075.3</td>
<td>047.2</td>
<td>073.8</td>
<td>049.3</td>
<td>069.5</td>
<td>056.4</td>
<td>065.5</td>
</tr>
<tr>
<td>Aug.</td>
<td>053.7</td>
<td>053.3</td>
<td>080.9</td>
<td>045.7</td>
<td>088.9</td>
<td>045.2</td>
<td>076.4</td>
<td>060.3</td>
<td>067.6</td>
</tr>
<tr>
<td>Sep.</td>
<td>043.8</td>
<td>045.5</td>
<td>071.1</td>
<td>042.9</td>
<td>060.5</td>
<td>049.2</td>
<td>071.6</td>
<td>063.3</td>
<td>064.0</td>
</tr>
<tr>
<td>Oct.</td>
<td>048.7</td>
<td>030.5</td>
<td>060.7</td>
<td>040.9</td>
<td>040.3</td>
<td>047.1</td>
<td>068.7</td>
<td>060.6</td>
<td>060.8</td>
</tr>
<tr>
<td>Nov.</td>
<td>030.8</td>
<td>038.7</td>
<td>058.3</td>
<td>030.7</td>
<td>051.7</td>
<td>030.0</td>
<td>063.0</td>
<td>050.4</td>
<td>040.6</td>
</tr>
<tr>
<td>Dec.</td>
<td>034.4</td>
<td>034.6</td>
<td>045.6</td>
<td>038.2</td>
<td>045.3</td>
<td>038.8</td>
<td>083.2</td>
<td>047.5</td>
<td>053.5</td>
</tr>
<tr>
<td>Jan.</td>
<td>031.0</td>
<td>038.0</td>
<td>030.5</td>
<td>045.1</td>
<td>030.6</td>
<td>045.6</td>
<td>030.8</td>
<td>043.6</td>
<td>045.3</td>
</tr>
<tr>
<td>1986</td>
<td>037.6</td>
<td>039.1</td>
<td>040.9</td>
<td>043.4</td>
<td>028.2</td>
<td>040.1</td>
<td>028.8</td>
<td>030.5</td>
<td>046.8</td>
</tr>
</tbody>
</table>

S - Surface, B - Bottom