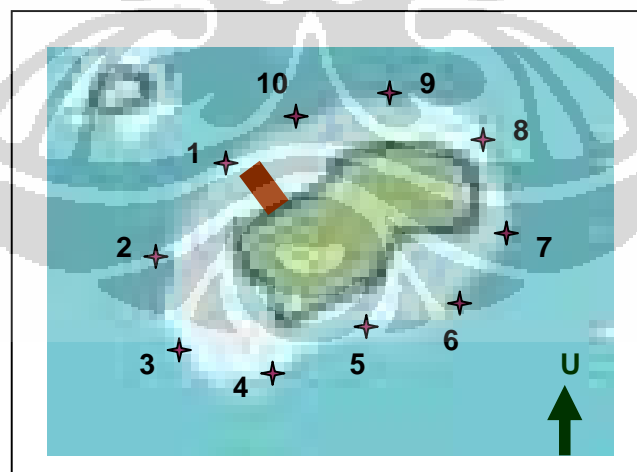






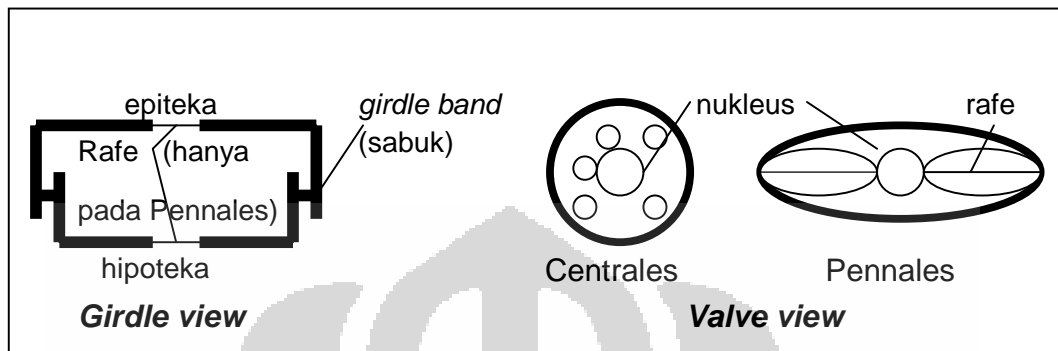
Gambar 1. Lokasi penelitian (Pulau Penjaliran Timur, Kepulauan Seribu)
[Sumber: Modifikasi Holtorf 2005.]



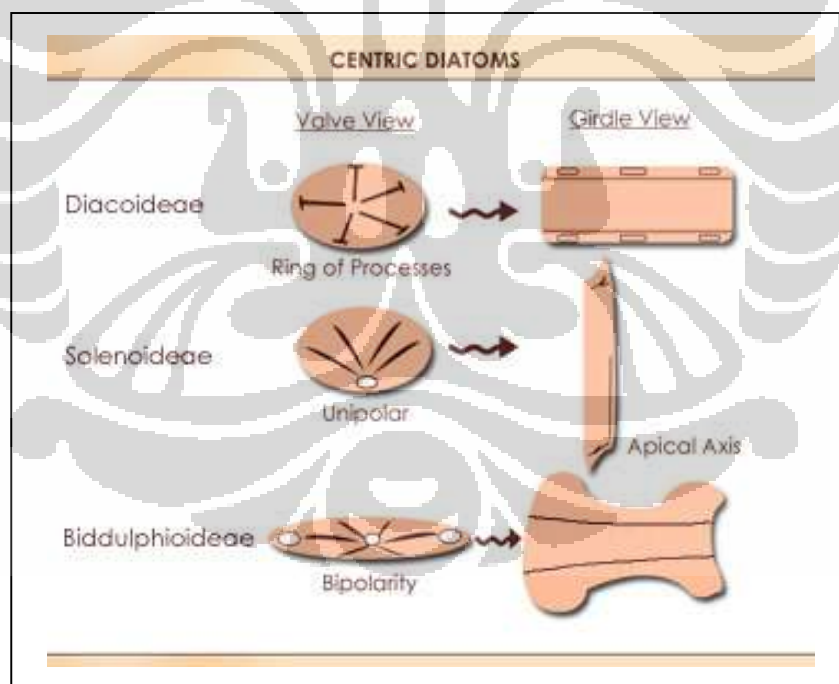
Gambar 2. Skema lokasi stasiun pengambilan sampel di Pulau Penjaliran Timur (Stasiun 1--10)



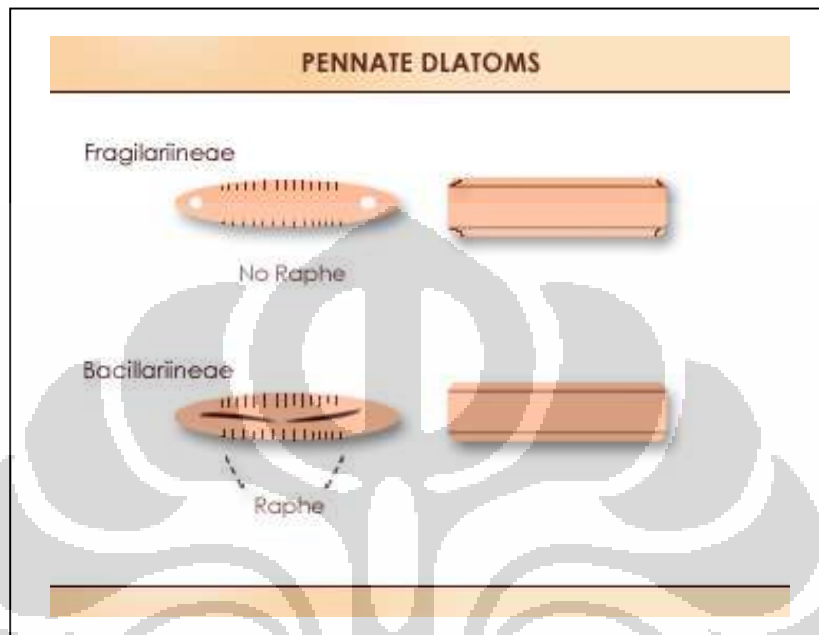
Gambar 3. Lokasi penelitian (Teluk Jakarta)



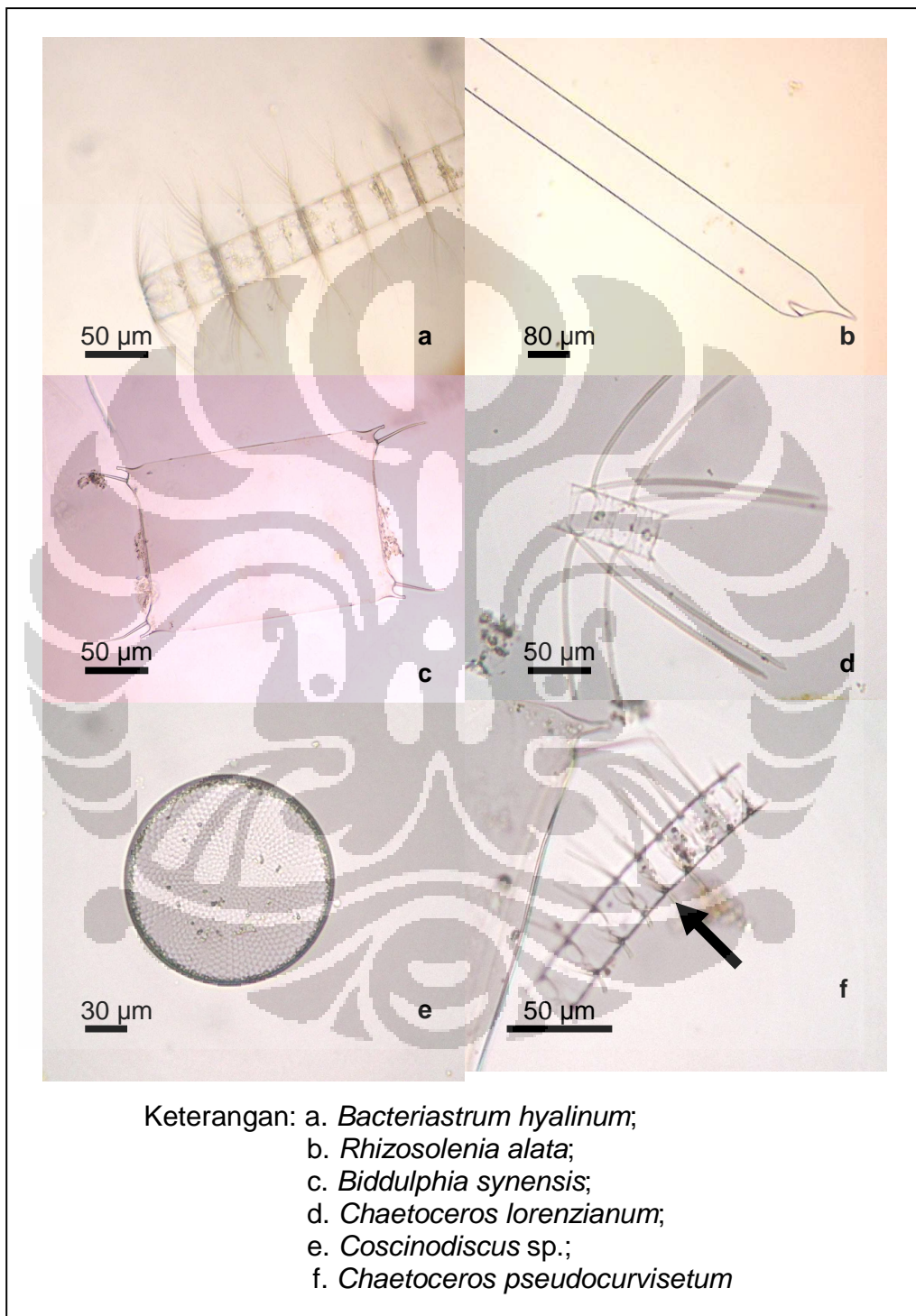
Gambar 4. Struktur sel diatom



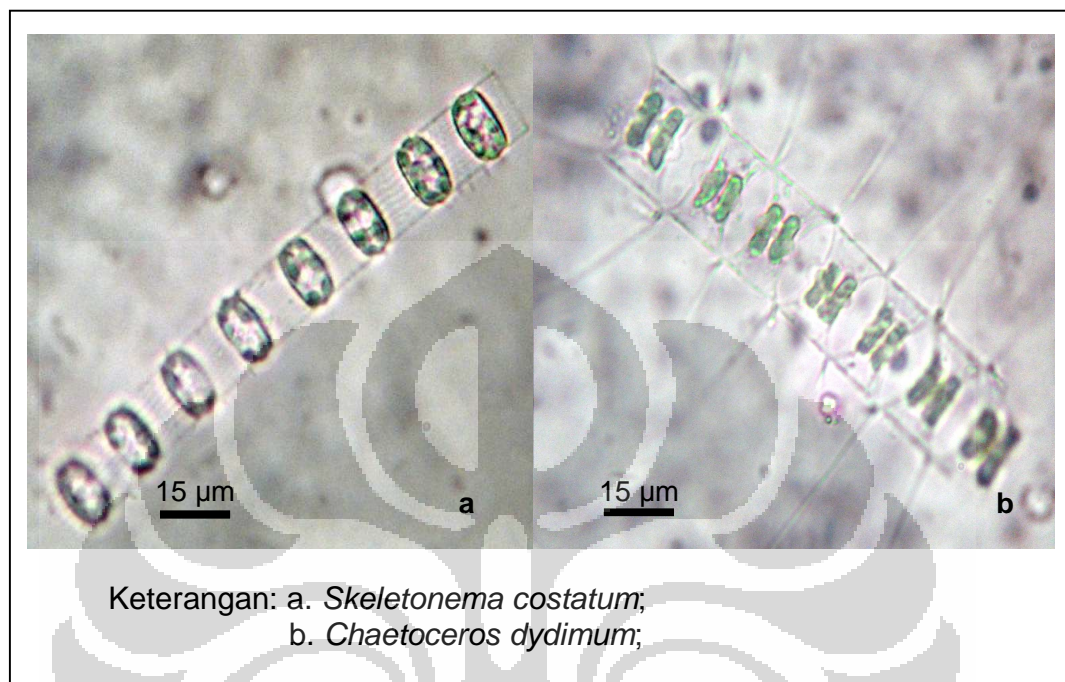
Gambar 5. Sel diatom bangsa Centrales [Sumber: Hongkong Redtide Information Network 2007: 2.]



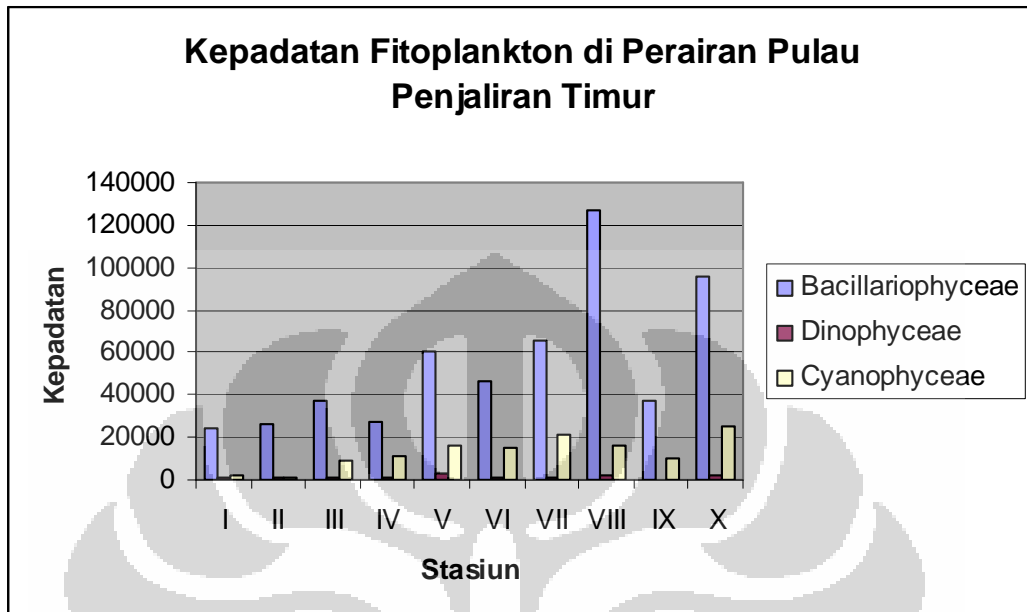
Gambar 6. Sel diatom bangsa Pennales [Sumber: Hongkong Redtide Information Network 2007: 2.]



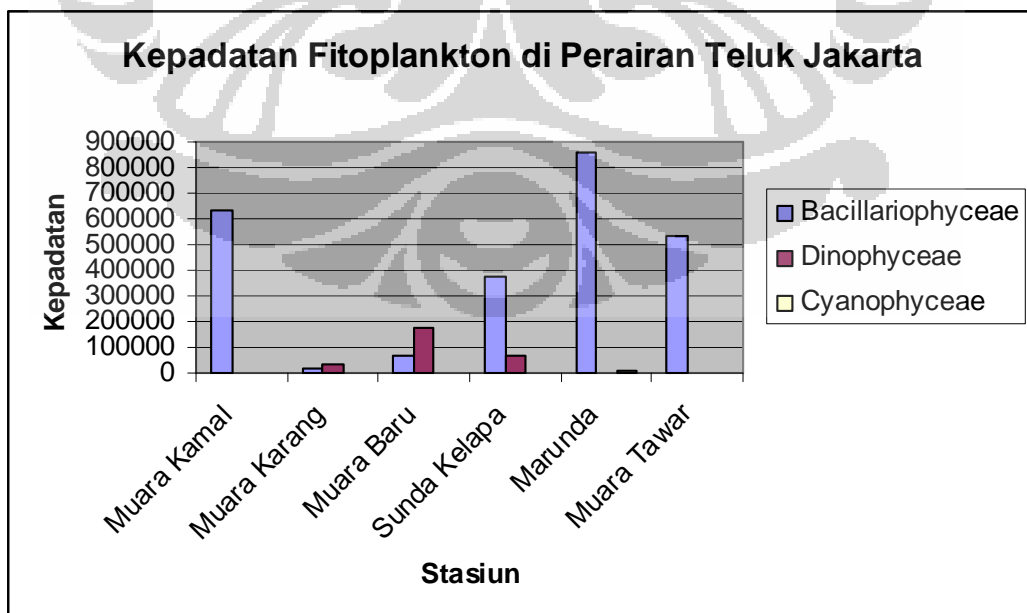
Gambar 7. Diatom yang ditemukan di perairan Penjaliran Timur



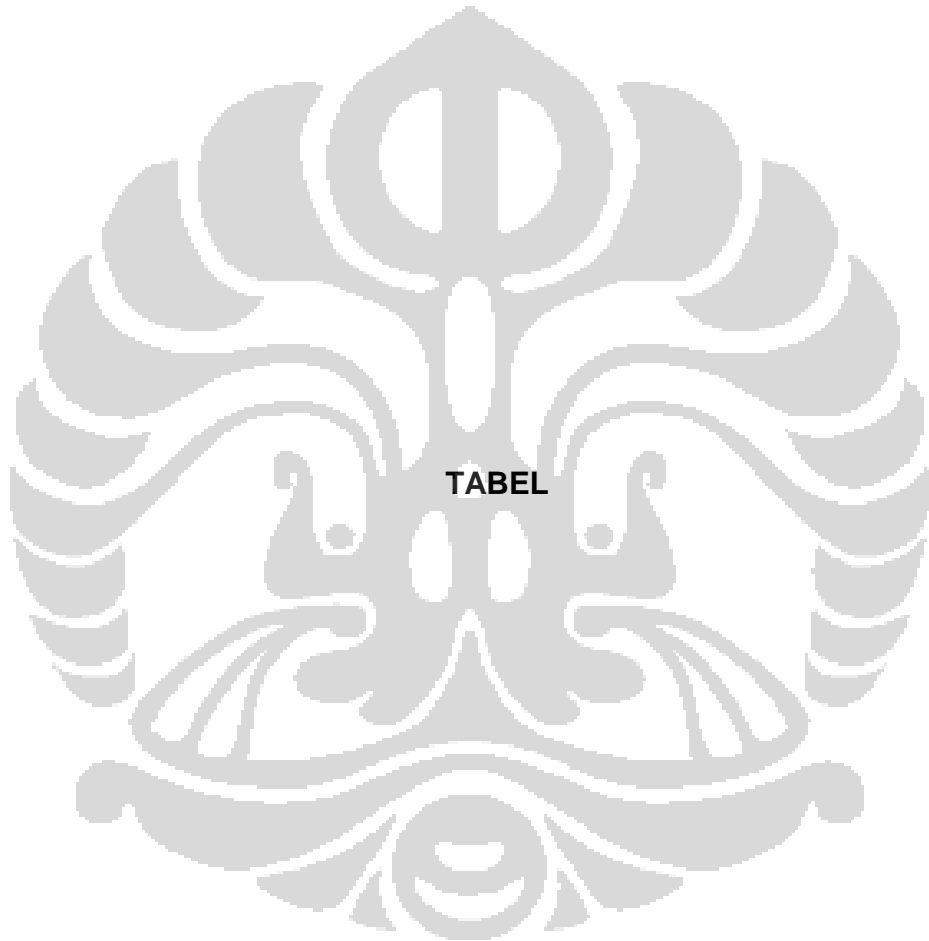
Gambar 8. Diatom yang ditemukan di perairan Teluk Jakarta



Gambar 9. Kepadatan fitoplankton di perairan Pulau Penjaliran Timur (plankter/m³)



Gambar 10. Kepadatan fitoplankton di perairan Teluk Jakarta (plankter/m³)



Tabel 1

Koordinat lokasi pengambilan sampel

| Stasiun | Koordinat Posisi Stasiun Penjaliran Timur | |
|---------|---|----------------------|
| | Bujur Timur (BT) | Lintang Selatan (LS) |
| I | 106°33'58.8" | 05°27'38.8" |
| II | 106°34'02.0" | 05°27'40.1" |
| III | 106°34'01.7" | 05°27'40.0" |
| IV | 106°34'11.5" | 05°27'39.2" |
| V | 106°34'16.5" | 05°27'37.1" |
| VI | 106°34'23.7" | 05°27'32.3" |
| VII | 106°34'23.6" | 05°27'15.7" |
| VIII | 106°34'16.2" | 05°27'13.9" |
| IX | 106°34'09.4" | 05°27'16.0" |
| X | 106°34'02.8" | 05°27'19.3" |

| Stasiun | Koordinat Posisi Stasiun Teluk Jakarta | |
|--------------|--|----------------------|
| | Bujur Timur (BT) | Lintang Selatan (LS) |
| Muara Kamal | 106°43'40.8" | 06°5'23.06" |
| Muara Karang | 106°47'2.4" | 06°6'25.96" |
| Muara Baru | 106°48'7.2" | 06°5'16.012" |
| Sunda Kelapa | 106°48'14.4" | 06°36'33.07" |
| Marunda | 106°57'25.2" | 06°5'41.86" |
| Muara Tawar | 106°59'24" | 06°5'10.43" |

Tabel 2

Data parameter lingkungan di setiap stasiun pengambilan sampel

| Penjaliran Timur | | | | |
|------------------|---------------------|-----|---------------|-----------|
| Stasiun | Panjang tarikan (m) | pH | Salinitas (‰) | Suhu (°C) |
| I | 5 | 7 | 29 | 28,5 |
| II | 3 | 7 | 29 | 29 |
| III | 3 | 7 | 22 | 29 |
| IV | 3 | 7 | 23 | 29 |
| V | 2,5 | 7 | 24 | 29 |
| VI | 3 | 7 | 23 | 29 |
| VII | 3 | 7 | 24 | 29 |
| VIII | 3 | 7 | 23,5 | 29 |
| IX | 3 | 7 | 27 | 29 |
| X | 3 | 7 | 22 | 29 |
| Teluk Jakarta | | | | |
| Stasiun | Panjang tarikan (m) | pH | Salinitas (‰) | Suhu (°C) |
| Muara Kamal | 5 | 6 | 27 | 30 |
| Muara Karang | 5 | 6 | 16 | 29 |
| Muara Baru | 5 | 7 | 29 | 31 |
| Sunda Kelapa | 4 | 7 | 32 | 32 |
| Marunda | 5 | 8 | 20 | 31 |
| Muara Tawar | 5 | 8,5 | 26 | 31 |

Tabel 3

Kehadiran jenis fitoplankton di perairan Pulau Penjaliran Timur dan Teluk Jakarta

| Fitoplankton | Penjaliran Timur | | | | | | | | | | Teluk Jakarta | | | | | |
|--|------------------|----|-----|----|---|----|-----|------|----|---|---------------|--------------|------------|--------------|---------|-------------|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | Muara Kamal | Muara Karang | Muara Baru | Sunda Kelapa | Marunda | Muara Tawar |
| Kelas Bacillariophyceae(Diatom) | | | | | | | | | | | | | | | | |
| Bangsa Centrales | | | | | | | | | | | | | | | | |
| <i>Asterolampra marylandica</i> | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Bacillaria paradoxa</i> | - | - | - | - | - | - | + | + | + | - | + | + | - | - | - | - |
| <i>Bacteriastrum comosum</i> | + | - | + | - | - | - | + | + | - | - | - | - | - | - | - | - |
| <i>Bacteriastrum delicatulum</i> | + | + | + | + | + | - | + | + | + | + | + | + | + | + | - | - |
| <i>Bacteriastrum hyalinum</i> | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | + |
| <i>Bacteriastrum varians</i> | + | + | + | - | + | + | + | + | + | + | + | + | + | + | - | - |
| <i>Biddulphia mobiliensis</i> | - | - | - | - | + | - | + | - | - | + | - | - | - | - | - | - |
| <i>Biddulphia pulchella</i> | - | - | - | - | + | - | - | + | + | + | - | - | - | - | - | - |
| <i>Biddulphia synensis</i> | + | + | + | + | + | + | + | + | + | + | + | - | - | - | + | - |
| <i>Cerataulina sp.</i> | - | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - |
| <i>Chaetoceros affine</i> | - | - | - | - | - | + | + | + | + | + | + | + | + | + | + | + |
| <i>Chaetoceros breve</i> | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Chaetoceros coarctatum</i> | + | + | + | + | + | + | + | + | + | + | - | - | - | - | - | - |
| <i>Chaetoceros compressum</i> | - | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - |
| <i>Chaetoceros constrictum</i> | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| <i>Chaetoceros delicatulum</i> | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Chaetoceros denticulatum</i> | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| <i>Chaetoceros didimum</i> | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| <i>Chaetoceros distans</i> | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | - |
| <i>Chaetoceros diversum</i> | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| <i>Chaetoceros laciniosum</i> | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Chaetoceros laeve</i> | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Chaetoceros lauderii</i> | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| <i>Chaetoceros lorenzianum</i> | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <i>Chaetoceros paradoxum</i> | - | - | + | - | + | - | + | + | + | - | - | + | + | - | - | - | - |
| <i>Chaetoceros peruvianum</i> | - | + | - | - | + | - | - | + | - | + | - | - | - | - | - | - | - |
| <i>Chaetoceros pseudocurvisetum</i> | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | + | + |
| <i>Chaetoceros tortissimum</i> | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| <i>Chaetoceros van heurkii</i> | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - |
| <i>Climacodium biconcavum</i> | + | + | - | - | + | + | + | + | + | - | - | - | - | - | - | - | - |
| <i>Climacodium frauenfeldianum</i> | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Climacosphenia moniligera</i> | + | - | - | + | - | - | + | + | - | - | - | - | - | - | - | - | - |
| <i>Coscinodiscus</i> sp. | + | + | + | + | + | + | + | + | + | + | + | - | - | - | + | + | + |
| <i>Dytilum sol</i> | + | + | + | + | + | + | + | + | + | + | - | + | - | - | - | - | - |
| <i>Guinardia flaccida</i> | + | + | + | - | - | - | + | + | + | - | - | - | - | - | - | - | - |
| <i>Hemiaulus haukii</i> | + | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Hemiaulus membranaceus</i> | - | - | + | - | + | - | - | - | - | - | - | - | + | - | - | - | - |
| <i>Hemiaulus sinensis</i> | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Isthmia capensis</i> | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Lauderia annulata</i> | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - | - |
| <i>Melosira</i> sp. | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - | - |
| <i>Planktoniella</i> | + | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| <i>Rhizosolenia alata</i> | + | + | + | + | + | + | + | + | + | + | - | + | - | - | - | - | + |
| <i>Rhizosolenia hebetata</i> | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - |
| <i>Rhizosolenia imbricata</i> | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - |
| <i>Rhizosolenia robusta</i> | + | - | + | + | + | + | + | + | - | - | - | - | - | - | - | - | - |
| <i>Rhizosolenia setigera</i> | - | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - |
| <i>Rhizosolenia stolterfothii</i> | - | - | - | - | - | - | + | + | + | + | - | - | - | - | - | - | - |
| <i>Skeletonema costatum</i> | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + | + | + |
| <i>Stephanophyxis nipponica</i> | - | - | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - |
| <i>Streptotheca indica</i> | + | + | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - |
| <i>Streptotheca thamensis</i> | + | + | + | + | + | + | + | + | + | - | - | - | - | - | - | - | - |
| <i>Triceratium alternans</i> | + | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <i>Triceratium favus</i> | + | - | + | - | - | - | - | - | + | - | - | - | - | - | - |
| Bangsa Pennales | | | | | | | | | | | | | | | |
| <i>Amphiprora alata</i> | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| <i>Asterionella</i> sp. | + | + | - | - | + | - | - | + | + | + | - | - | - | - | + |
| <i>Campylodiscus ralfsii</i> | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - |
| <i>Donkinia recta</i> | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <i>Fragilaria</i> sp. | + | - | - | - | + | + | - | - | - | - | - | - | - | - | - |
| <i>Gyrosigma</i> sp. | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - |
| <i>Navicula</i> sp. | + | + | - | + | + | + | + | + | + | + | - | - | - | + | + |
| <i>Nitzschia</i> sp. | + | + | + | + | - | - | - | + | + | - | - | - | + | + | + |
| <i>Pleurosigma</i> sp. | + | + | - | - | - | + | + | + | - | + | - | - | + | - | + |
| <i>Rhabdonema arcuatum</i> | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - |
| <i>Surirella cuneata</i> | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| <i>Thalassionema nitzschiodes</i> | - | + | - | - | + | - | - | - | + | - | - | - | - | - | - |
| <i>Thalassiosira</i> sp. | + | + | + | - | + | + | + | + | - | + | - | - | - | - | - |
| <i>Thalassiothrix frauenfeldii</i> | - | + | + | + | + | + | + | + | - | + | - | - | - | - | - |
| Kelas Dinophyceae | | | | | | | | | | | | | | | |
| <i>Amphisolenia</i> sp. | + | + | + | - | + | - | + | + | + | + | - | - | - | - | - |
| <i>Ceratium</i> sp. | - | - | - | - | - | - | - | - | - | - | + | + | + | + | - |
| <i>Dinophysis</i> sp. | + | + | + | - | - | + | + | + | - | + | - | - | - | - | - |
| <i>Gonyaulax</i> sp. | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - |
| <i>Noctiluca scintillans</i> | - | - | + | - | - | - | - | - | - | - | + | + | + | + | + |
| <i>Protoperdinium</i> sp. | - | - | + | + | + | + | + | + | - | - | + | + | - | - | + |
| <i>Pyrocystis noctiluca</i> | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - |
| Cyanophyceae | | | | | | | | | | | | | | | |
| <i>Trichodesmium</i> sp. | + | + | + | + | + | + | + | + | + | + | - | + | - | - | + |

Keterangan: + : ada;
- : tidak ada

Tabel 4

Presentase kehadiran bangsa diatom di perairan Pulau Penjaliran Timur dan Teluk Jakarta

| Bangsa | Penjaliran Timur | | | | | | | | | | Rata-rata |
|-----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | I | II | III | IV | V | VI | VII | VIII | IX | X | |
| Bacillariophyceae (%) | 91.46 | 94.18 | 78.33 | 68.19 | 76.37 | 74.47 | 74.60 | 87.36 | 78.97 | 77.52 | 80.15 |
| Dinophyceae (%) | 2.56 | 2.74 | 2.76 | 2.33 | 3.44 | 1.37 | 1.61 | 1.56 | 0.60 | 1.83 | 2.08 |
| Cyanophyceae (%) | 5.98 | 3.08 | 18.91 | 29.47 | 20.19 | 24.16 | 23.79 | 11.08 | 20.43 | 20.64 | 17.77 |

| Bangsa | Teluk Jakarta | | | | | | Rata-rata |
|-----------------------|---------------|--------------|------------|--------------|---------|-------------|-----------|
| | Muara Kamal | Muara Karang | Muara Baru | Sunda Kelapa | Marunda | Muara Tawar | |
| Bacillariophyceae (%) | 99.54 | 28.53 | 28.02 | 84.55 | 98.51 | 99.92 | 73.18 |
| Dinophyceae (%) | 0.46 | 67.59 | 71.98 | 15.45 | 0.44 | 0.08 | 25.99 |
| Cyanophyceae (%) | - | 3.88 | - | - | 1.05 | - | 2.46 |

Tabel 5

Kepadatan diatom di perairan Pulau Penjaliran Timur (plankter/m³)

| Nama Jenis | Stasiun | | | | | | | | | |
|-----------------------------------|---------|------|------|------|------|------|------|-------|------|------|
| | I | II | III | IV | V | VI | VII | VIII | IX | X |
| Diatom (Bacillariophyceae) | | | | | | | | | | |
| <i>Asterionella</i> sp. | 1810 | 3394 | | | 339 | | | 283 | 566 | 283 |
| <i>Asterolampra marylandica</i> | | 377 | | | | | | | | |
| <i>Bacillaria paradoxa</i> | | | | | | | 566 | 848 | 283 | |
| <i>Bacteriastrum comosum</i> | 74 | | 113 | | | | 240 | 127 | | |
| <i>Bacteriastrum delicatulum</i> | 147 | 57 | 226 | 509 | 724 | | 321 | 1018 | 90 | 519 |
| <i>Bacteriastrum hyalinum</i> | 2133 | 1301 | 4186 | 2545 | 4073 | 1056 | 4728 | 9927 | 3045 | 8711 |
| <i>Bacteriastrum varians</i> | 147 | 57 | 226 | | 453 | 905 | 641 | 764 | 358 | 519 |
| <i>Biddulphia mobiliensis</i> | | | | | 339 | | 566 | | | 566 |
| <i>Biddulphia pulchella</i> | | | | | 1697 | | | 848 | 283 | 283 |
| <i>Biddulphia synensis</i> | 2036 | 1131 | 2263 | 2828 | 7806 | 3394 | 5374 | 10465 | 1697 | 7071 |
| <i>Campylodiscus ralfsii</i> | | | | | | | | 283 | 283 | |
| <i>Cerataulina</i> sp. | | | | | | | | | 283 | 283 |
| <i>Chaetoceros affine</i> | | | | | | 198 | 896 | 792 | 207 | 801 |
| <i>Chaetoceros breve</i> | | | 151 | | | | | | | |
| <i>Chaetoceros coarctatum</i> | 147 | 189 | 151 | 207 | 905 | 198 | 537 | 2640 | 415 | 3366 |
| <i>Chaetoceros compressum</i> | | | | | | 198 | | | | 321 |
| <i>Chaetoceros constrictum</i> | | | | | | | | 264 | | |
| <i>Chaetoceros delicatulum</i> | | 189 | | | | | | | | |
| <i>Chaetoceros denticulatum</i> | | | | | | | | | | 160 |
| <i>Chaetoceros distans</i> | | | | | | | | | | 321 |
| <i>Chaetoceros laeve</i> | | | | | 226 | | | | | |
| <i>Chaetoceros lauderii</i> | | | | | | | | 528 | | |
| <i>Chaetoceros lorenzianum</i> | 147 | 943 | 2715 | 830 | 2489 | 1584 | 2329 | 3696 | 1659 | 6892 |
| <i>Chaetoceros paradoxum</i> | | | 151 | | 226 | | 358 | 264 | 415 | 160 |

| | | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|-------|-------|------|-------|
| <i>Chaetoceros peruvianum</i> | | 189 | | | 226 | | | 264 | | 160 |
| <i>Chaetoceros pseudocurvisetum</i> | 588 | 2074 | 3771 | 1452 | 4073 | 3960 | 2687 | 9503 | 1867 | 7052 |
| <i>Chaetoceros tortissimum</i> | | | | | | | | | 207 | |
| <i>Climacodium biconcavum</i> | 147 | 189 | | | 679 | 848 | 283 | | 283 | |
| <i>Climacodium frauenfeldianum</i> | | 189 | | | | | | | | |
| <i>Climacosphenia moniligera</i> | 147 | | | 236 | | | 283 | 283 | | |
| <i>Coscinodiscus</i> sp. | 4525 | 1980 | 3960 | 7070 | 9842 | 9899 | 15273 | 15273 | 7071 | 17818 |
| <i>Donkinia recta</i> | 441 | | | | | | | | | |
| <i>Dytilum sol</i> | 453 | 1697 | | 943 | 2715 | 2828 | 1414 | 3960 | 1697 | 2545 |
| <i>Fragilaria</i> sp. | 226 | | | | 339 | 566 | | | | |
| <i>Guinardia flaccida</i> | 1584 | 283 | 1508 | | | | 6505 | 7071 | 1980 | 8768 |
| <i>Hemiaulus haukii</i> | 147 | | | | 452 | | | | | |
| <i>Hemiaulus membranaceus</i> | | | 189 | | 339 | | | | | |
| <i>Hemiaulus sinensis</i> | | | | | 226 | | | | | |
| <i>Isthmia capensis</i> | | 754 | | | | | | | | |
| <i>Navicula</i> sp. | 226 | | | 236 | 1018 | 283 | 1414 | 9899 | 848 | 283 |
| <i>Nitzschia</i> sp. | 453 | 283 | 943 | 471 | | | | | 1131 | 848 |
| <i>Planktoniella</i> | 147 | | | | | 198 | | | | |
| <i>Pleurosigmasp.</i> | 226 | 283 | | | | 283 | | 848 | 283 | |
| <i>Rhabdonema arcuatum</i> | | | | | 339 | 566 | 283 | | | |
| <i>Rhizosolenia alata</i> | 4525 | 3394 | 9239 | 4242 | 7806 | 7919 | 12161 | 24040 | 3677 | 18101 |
| <i>Rhizosolenia hebetata</i> | | | | 471 | | 283 | | | | |
| <i>Rhizosolenia robusta</i> | 453 | | 377 | 471 | 1018 | 1980 | 283 | 3394 | 283 | |
| <i>Rhizosolenia stolterfothii</i> | | | | | 1697 | | 283 | 1131 | 283 | 283 |
| <i>Stephanophyxis nipponica</i> | | | | | | 566 | | | 207 | |
| <i>Streptothea indica</i> | 147 | 189 | | | | 283 | | | 283 | |
| <i>Streptothea thamensis</i> | 147 | 377 | 566 | 207 | 679 | 283 | 848 | 2828 | 283 | |
| <i>Suriella cuneata</i> | | | | | 226 | | | | | |
| <i>Thalassionema nitzschiodes</i> | | 189 | | | 339 | | | | 566 | 848 |
| <i>Thalassiosira</i> sp. | 2715 | 848 | 943 | | 4752 | 3677 | 3111 | 7919 | 3677 | 5374 |
| <i>Thalassiothrix frauenfeldii</i> | | 5374 | 5657 | 4007 | 4073 | 4242 | 4242 | 7919 | 2545 | 3111 |
| <i>Triceratium alternans</i> | 147 | | | | 226 | | | | 415 | |

| | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| <i>Triceratium favus</i> | 147 | | 151 | | | | | | | 160 |
| Total | 24232 | 25930 | 37486 | 26725 | 60341 | 46197 | 65626 | 127079 | 37170 | 95607 |
| Dinophyceae | | | | | | | | | | |
| <i>Amphisolenia</i> sp. | 453 | 566 | 566 | | 339 | | 283 | 1414 | 283 | 848 |
| <i>Ceratium</i> sp. | | | | | | | | | | |
| <i>Dinophysis</i> sp. | 226 | 189 | 189 | | | 566 | 848 | 283 | | 1414 |
| <i>Noctiluca scintillans</i> | | | 377 | | | | | | | |
| <i>Protoperdinium</i> sp. | | | 189 | 679 | 679 | 283 | 283 | 566 | | |
| <i>Pyrocystis noctiluca</i> | | | | 236 | 1697 | | | | | |
| Total (Dinophyceae) | 679 | 755 | 1321 | 915 | 2715 | 849 | 1414 | 2263 | 283 | 2262 |
| Cyanophyceae | | | | | | | | | | |
| <i>Trichodesmium</i> sp. | 1584 | 848 | 9051 | 11549 | 15952 | 14990 | 20929 | 16121 | 9616 | 25455 |
| Total | 26495 | 27533 | 47858 | 39189 | 79008 | 62036 | 87969 | 145463 | 47069 | 123324 |

Tabel 6

Kepadatan diatom di perairan Teluk Jakarta (plankter/m³)

| Nama Jenis | Stasiun | | | | | |
|-------------------------------------|---------------|--------------|--------------|---------------|---------------|---------------|
| | Muara Kamal | Muara Karang | Muara Baru | Sunda Kelapa | Marunda | Muara Tawar |
| Diatom (Bacillariophyceae) | | | | | | |
| <i>Amphiprora alata</i> | | | | | | 140 |
| <i>Asterionella</i> sp. | | | | | | 140 |
| <i>Bacillaria paradoxa</i> | 611 | 147 | | | | |
| <i>Bacteriastrum delicatulum</i> | 3207 | | 984 | 4136 | | |
| <i>Bacteriastrum hyalinum</i> | | 1324 | 492 | 1909 | 12752 | 8968 |
| <i>Bacteriastrum varians</i> | 5727 | | 2461 | 3182 | | |
| <i>Biddulphia synensis</i> | 458 | | | | 331 | |
| <i>Chaetoceros affine</i> | 290259 | 1324 | 19521 | 185818 | 93070 | 72866 |
| <i>Chaetoceros didimum</i> | | | | 318 | | |
| <i>Chaetoceros distans</i> | | | | 636 | | |
| <i>Chaetoceros diversum</i> | | | 164 | | | |
| <i>Chaetoceros lacinosum</i> | | | | 318 | | |
| <i>Chaetoceros lorenzianum</i> | 114088 | 1029 | 5741 | 28636 | 33949 | 54369 |
| <i>Chaetoceros paradoxum</i> | | | 164 | 318 | | |
| <i>Chaetoceros pseudocurvisetum</i> | | 1029 | 14108 | 70636 | | 140 |
| <i>Chaetoceros van heurkii</i> | | | 3773 | 4136 | | |
| <i>Coscinodiscus</i> sp. | 1222 | 1177 | | | 2650 | 3643 |
| <i>Dytilum sol</i> | | | 164 | | | |
| <i>Gyrosigma</i> sp. | 1069 | | | | | |
| <i>Hemiaulus membranaceus</i> | | | | 318 | | |
| <i>Lauderia annulata</i> | | | 656 | 1909 | | |
| <i>Melosira</i> sp. | | | 164 | | | |
| <i>Navicula</i> sp. | 1680 | | | | 1325 | 140 |
| <i>Nitzschia closterium</i> | | | | 318 | | |
| <i>Nitzschia serata</i> | | | | 4773 | 5465 | 28726 |
| <i>Pleurosigma</i> sp. | 29018 | | | 318 | | 561 |
| <i>Rhizosolenia alata</i> | 458 | | 328 | | | 140 |
| <i>Rhizosolenia imbricata</i> | | 147 | | | | |
| <i>Rhizosolenia setigera</i> | | | | 318 | | |
| <i>Skeletonema costatum</i> | 185106 | 8971 | 18209 | 63000 | 704650 | 364331 |
| Total | 632903 | 15148 | 66929 | 370997 | 854192 | 534164 |

Tabel 7

Indeks dominansi diatom di perairan Pulau Penjaliran Timur

| Nama Jenis | Stasiun | | | | | | | | | |
|-----------------------------------|---------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| | I | II | III | IV | V | VI | VII | VIII | IX | X |
| Diatom (Bacillariophyceae) | | | | | | | | | | |
| <i>Asterionella</i> sp. | 7.47% | 13.09% | | | 0.56% | | | 0.22% | 1.52% | 0.30% |
| <i>Asterolampra marylandica</i> | | 1.45% | | | | | | | | |
| <i>Bacillaria paradoxa</i> | | | | | | | 0.86% | 0.67% | 1.76% | |
| <i>Bacteriastrum comosum</i> | 0.31% | | 0.30% | | | | 0.37% | 0.10% | | |
| <i>Bact. delicatulum</i> | 0.61% | 0.22% | 0.60% | 1.90% | 1.20% | | 0.49% | 0.80% | 0.24% | 0.54% |
| <i>Bact. hyalinum</i> | 8.80% | 5.02% | 11.17% | 9.52% | 6.75% | 2.29% | 7.20% | 7.81% | 8.19% | 9.11% |
| <i>Bact. varians</i> | 0.61% | 0.22% | 0.60% | | 0.75% | 1.96% | 0.98% | 0.60% | 0.96% | 0.54% |
| <i>Biddulphia mobiliensis</i> | | | | | 0.56% | | 0.86% | | | 0.59% |
| <i>Bidd. pulchella</i> | | | | | 2.81% | | | 0.67% | 0.76% | 0.30% |
| <i>Bidd. synensis</i> | 8.41% | 4.36% | 6.04% | 10.58% | 12.94% | 7.35% | 8.19% | 8.23% | 4.57% | 7.40% |
| <i>Campylodiscus ralfsii</i> | | | | | | | | 0.22% | 0.76% | |
| <i>Cerataulina</i> sp. | | | | | | | | | 0.76% | 0.30% |
| <i>Chaetoceros affine</i> | | | | | | 0.43% | 1.37% | 0.62% | 0.56% | 0.84% |
| <i>Chaet. breve</i> | | | 0.40% | | | | | | | |
| <i>Chaet. coarctatum</i> | 0.61% | 0.73% | 0.40% | 0.77% | 1.50% | 0.43% | 0.82% | 2.08% | 1.12% | 3.52% |
| <i>Chaet. compressum</i> | | | | | | 0.43% | | | | 0.34% |
| <i>Chaet. constrictum</i> | | | | | | | | 0.21% | | |
| <i>Chaet. delicatulum</i> | | 0.73% | | | | | | | | |
| <i>Chaet. denticulatum</i> | | | | | | | | | | 0.17% |
| <i>Chaet. distans</i> | | | | | | | | | | 0.34% |
| <i>Chaet. laeve</i> | | | | | 0.37% | | | | | |
| <i>Chaet. lauderii</i> | | | | | | | | 0.42% | | |
| <i>Chaet. lorenzianum</i> | 0.61% | 3.64% | 7.24% | 3.11% | 4.12% | 3.43% | 3.55% | 2.91% | 4.46% | 7.20% |
| <i>Chaet. paradoxum</i> | | | 0.40% | | 0.37% | | 0.55% | 0.21% | 1.12% | 0.17% |
| <i>Chaet. peruvianum</i> | | 0.73% | | | 0.37% | | | 0.21% | | 0.17% |
| <i>Chaet. pseudocurvisetum</i> | 2.43% | 8% | 10.06% | 5.43% | 6.75% | 8.57% | 4.09% | 7.48% | 5.02% | 7.38% |

| | | | | | | | | | | |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <i>Chaet. tortissimum</i> | | | | | | | | | | 0.56% |
| <i>Climacodium biconcavum</i> | 0.61% | 0.73% | | | 1.13% | 1.84% | 0.43% | | | 0.76% |
| <i>Clim. frauenfeldianum</i> | | 0.73% | | | | | | | | |
| <i>Climacosphenia moniligera</i> | 0.61% | | | 0.88% | | | 0.43% | 0.22% | | |
| <i>Coscinodiscus sp.</i> | 18.67% | 7.64% | 10.56% | 26.45% | 16.31% | 21.43% | 23.27% | 12.02% | 19.02% | 18.64% |
| <i>Donkinia recta</i> | 1.82% | | | | | | | | | |
| <i>Dytilum sol</i> | 1.87% | 6.54% | | 3.53% | 4.50% | 6.12% | 2.15% | 3.12% | 4.57% | 2.66% |
| <i>Fragilaria sp.</i> | 1.10% | | | | 0.56% | 1.23% | | | | |
| <i>Guinardia flaccida</i> | 6.54% | 1.09% | 4.02% | | | | 9.91% | 5.56% | 5.33% | 9.17% |
| <i>Hemiaulus haukii</i> | 0.61% | | | | 0.75% | | | | | |
| <i>Hem. membranaceus</i> | | | 0.50% | | 0.56% | | | | | |
| <i>Hem. sinensis</i> | | | | | 0.37% | | | | | |
| <i>Isthmia capensis</i> | | 2.91% | | | | | | | | |
| <i>Navicula sp.</i> | 0.93% | | | 0.88% | 1.69% | 0.61% | 2.15% | 7.79% | 2.28% | 0.30% |
| <i>Nitzschia sp.</i> | 1.87% | 1.09% | 2.52% | 1.76% | | | | | 3.04% | 0.89% |
| <i>Planktoniella</i> | 0.61% | | | | | 0.43% | | | | |
| <i>Pleurosigmasp.</i> | 0.93% | 1.09% | | | | 0.61% | | 0.67% | 0.76% | |
| <i>Rhabdonema arcuatum</i> | | | | | 0.56% | 1.23% | 0.43% | | | |
| <i>Rhizosolenia alata</i> | 18.67% | 13.09% | 24.65% | 15.87% | 12.94% | 17.14% | 18.53% | 18.92% | 9.89% | 18.93% |
| <i>Rhizo. hebetata</i> | | | | 1.76% | | 0.61% | | | | |
| <i>Rhizo. robusta</i> | 1.87% | | 1.01% | 1.76% | 1.69% | 4.29% | 0.43% | 2.67% | 0.76% | |
| <i>Rhizo. stolterfothii</i> | | | | | 2.81% | | 0.43% | 0.89% | 0.76% | 0.30% |
| <i>Stephanophysix nipponica</i> | | | | | | 1.23% | | | 0.56% | |
| <i>Streptotheca indica</i> | 0.61% | 0.73% | | | | 0.61% | | | 0.76% | |
| <i>Streptotheca thamensis</i> | 0.61% | 1.45% | 1.51% | 0.77% | 1.13% | 0.61% | 1.29% | 2.23% | 0.76% | |
| <i>Surirella cuneata</i> | | | | | 0.37% | | | | | |
| <i>Thalassionema nitzschiodes</i> | | 0.73% | | | 0.56% | | | | 1.52% | 0.89% |
| <i>Thalassiosira sp.</i> | 11.20% | 3.27% | 2.52% | | 7.88% | 7.96% | 4.74% | 6.23% | 9.89% | 5.62% |
| <i>Thalassiothrix frauenfeldii</i> | | 20.73% | 15.09% | 14.99% | 6.75% | 9.18% | 6.46% | 6.23% | 6.85% | 3.25% |
| <i>Triceratium alternans</i> | 0.61% | | | | 0.37% | | | | 1.12% | |
| <i>Tricer. favus</i> | 0.61% | | 0.40% | | | | | | | 0.17% |
| Total (Diatom) | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Tabel 8

Indeks dominansi diatom di perairan Teluk Jakarta

| Nama Jenis | Stasiun | | | | | |
|-----------------------------------|-------------|--------------|-------------|--------------|-------------|-------------|
| | Muara Kamal | Muara Karang | Muara Baru | Sunda Kelapa | Marunda | Muara Tawar |
| Diatom (Bacillariophyceae) | | | | | | |
| <i>Amphiprora alata</i> | | | | | | 0.03% |
| <i>Asterionella</i> sp. | | | | | | 0.03% |
| <i>Bacillaria paradoxa</i> | 0.09% | 0.97% | | | | |
| <i>Bacteriastrum delicatulum</i> | 0.50% | | 1.47% | 1.11% | | |
| <i>Bacteriastrum hyalinum</i> | | 8.70% | 0.74% | 0.51% | 1.50% | 1.68% |
| <i>Bacteriastrum varians</i> | 0.90% | | 3.68% | 0.86% | | |
| <i>Biddulphia synensis</i> | 0.07% | | | | 0.04% | |
| <i>Chaetoceros affine</i> | 45.86% | 8.70% | 29.17% | 50.08% | 10.90% | 13.64% |
| <i>Chaet. didimum</i> | | | | 0.09% | | |
| <i>Chaet. distans</i> | | | | 0.17% | | |
| <i>Chaet. diversum</i> | | | 0.25% | | | |
| <i>Chaet. lacinosum</i> | | | | 0.09% | | |
| <i>Chaet. lorenzianum</i> | 18% | 6.79% | 8.58% | 7.72% | 3.97% | 10.20% |
| <i>Chaet. paradoxum</i> | | | 0.25% | 0.09% | | |
| <i>Chaet. pseudocurvisetum</i> | | 6.79% | 21.79% | 19.04% | | 0.03% |
| <i>Chaet. van heurkii</i> | | | 5.64% | 1.11% | | |
| <i>Coscinodiscus</i> sp. | 0.19% | 7.77% | | | 0.30% | 0.68% |
| <i>Dytilum sol</i> | | | 0.25% | | | |
| <i>Gyrosigma</i> sp. | 0.17% | | | | | |
| <i>Hemiaulus membranaceus</i> | | | | 0.09% | | |
| <i>Lauderia annulata</i> | | | 0.98% | 0.51% | | |
| <i>Melosira</i> sp. | | | 0.25% | | | |
| <i>Navicula</i> sp. | 0.27% | | | | 0.16% | 0.03% |
| <i>Nitzschia closterium</i> | | | | 0.09% | | |
| <i>Nitzschia serata</i> | | | | 1.29% | 0.64% | 5.38% |
| <i>Pleurosigma</i> sp. | 4.58% | | | 0.09% | | 0.10% |
| <i>Rhizosolenia alata</i> | 0.07% | | 0.49% | | | 0.03% |
| <i>Rhizo. imbricata</i> | | 0.97% | | | | |
| <i>Rhizo. setigera</i> | | | | 0.09% | | |
| <i>Skeletonema costatum</i> | 29% | 59.20% | 27.20% | 16.98% | 82.50% | 68.20% |
| Total (Diatom) | 100% | 100% | 100% | 100% | 100% | 100% |

Tabel 9

Nilai Indeks kekayaan, pemerataan, dan keanekaragaman diatom di perairan Pulau Penjaliran Timur

| Penjaliran Timur | | | | | | |
|------------------|------|---------------|------|---------------|------|---------------|
| Stasiun | D | | J | | H' | |
| I | 1.85 | Tinggi | 0.77 | Hampir merata | 3.71 | Sangat tinggi |
| II | 1.64 | Tinggi | 0.81 | Hampir merata | 3.76 | Sangat tinggi |
| III | 1.25 | Sedang | 0.78 | Hampir merata | 3.35 | Sangat tinggi |
| IV | 1.02 | Sedang | 0.8 | Hampir merata | 3.21 | Sangat tinggi |
| V | 1.89 | Tinggi | 0.81 | Hampir merata | 3.4 | Sangat tinggi |
| VI | 1.48 | Sedang | 0.79 | Hampir merata | 3.64 | Sangat tinggi |
| VII | 1.5 | Sedang | 0.73 | Cukup merata | 3.37 | Sangat tinggi |
| VIII | 1.65 | Tinggi | 0.8 | Hampir merata | 3.89 | Sangat tinggi |
| IX | 2.04 | Sangat tinggi | 0.83 | Hampir merata | 4.15 | Sangat tinggi |
| X | 1.63 | Tinggi | 0.75 | Cukup merata | 3.62 | Sangat tinggi |

Keterangan: D : indeks kekayaan jenis;
 J : indeks pemerataan jenis;
 H': indeks keanekaragaman jenis

Tabel 10

Nilai Indeks kekayaan, pemerataan, dan keanekaragaman diatom di perairan Teluk Jakarta

| Teluk Jakarta | | | | | | |
|---------------|------|---------------|------|---------------|------|--------|
| Stasiun | D | | J | | H' | |
| Muara Kamal | 0.57 | Rendah | 0.52 | Cukup merata | 1.86 | Sedang |
| Muara Karang | 0.5 | Sangat rendah | 0.67 | Cukup merata | 2.01 | Sedang |
| Muara Baru | 0.81 | Rendah | 0.67 | Cukup merata | 2.55 | Tinggi |
| Sunda Kelapa | 0.92 | Rendah | 0.51 | Cukup merata | 2.11 | Tinggi |
| Marunda | 0.36 | Sangat rendah | 0.31 | Kurang merata | 0.94 | Rendah |
| Muara Tawar | 0.58 | Rendah | 0.31 | Kurang merata | 1.13 | Sedang |

Keterangan: D : indeks kekayaan jenis;
 J : indeks pemerataan jenis;
 H' : indeks keanekaragaman jenis