

ตารางภาคผนวก 1 ค่าเฉลี่ยและค่าเบี่ยงเบนมาตรฐานของปัจจัยสิ่งแวดล้อมในป่าชายเลน

| Month | Depth (m) | Temperature (°C) | pH | Salinity (PSU) | DO (mg/l) | SS (mg/l) | Chlorophyll-a (mg/m ³) |
|--------|--------------|---------------------|----------|-------------------|--------------|--------------|---------------------------------------|
| Jan-01 | 2.9±0.28 | 29.0±0.47 | 7.2±0.44 | 26.0±3.30 | 4.1±0.09 | 53.9±12.32 | 8.6±1.23 |
| Feb-01 | 2.0±0.18 | 30.3±0.00 | 7.3±0.05 | 28.2±3.06 | 5.6±0.58 | 48.7±5.66 | 4.7±2.14 |
| Mar-01 | 2.2±0.49 | 30.1±0.00 | 7.4±0.00 | 30.5±1.18 | 4.5±0.21 | 54.1±3.49 | 6.3±1.24 |
| Apr-01 | 2.2±0.45 | 32.3±0.00 | 7.4±0.01 | 23.8±1.65 | 4.9±0.26 | 60.2±1.18 | 3.0±0.02 |
| May-01 | 2.3±0.09 | 30.9±0.12 | 6.9±0.00 | 29.0±0.47 | 3.7±0.46 | 48.0±6.41 | 2.2±0.38 |
| Jun-01 | 2.3±0.00 | 29.5±0.47 | 6.9±0.03 | 28.7±1.41 | 4.1±0.00 | 47.4±0.14 | 2.1±2.24 |
| Jul-01 | 2.4±0.16 | 31.2±0.12 | 7.0±0.01 | 26.5±0.71 | 4.5±0.25 | 45.3±1.13 | 2.5±0.80 |
| Aug-01 | 2.5±0.07 | 31.0±0.00 | 7.1±0.03 | 31.0±0.00 | 4.5±0.20 | 91.5±5.42 | 2.2±0.15 |
| Sep-01 | 2.6±0.21 | 31.9±0.35 | 7.0±0.02 | 31.5±3.06 | 4.3±0.00 | 92.0±23.35 | 2.5±0.59 |
| Oct-01 | 2.7±0.41 | 29.5±1.89 | 7.0±0.00 | 20.8±0.71 | 5.5±0.33 | 105.5±31.68 | 2.9±0.71 |
| Nov-01 | 3.0±0.42 | 29.8±0.47 | 7.3±0.12 | 30.2±0.71 | 4.4±0.42 | 79.5±29.04 | 3.4±1.09 |
| Dec-01 | 3.2±0.31 | 28.6±0.00 | 7.3±0.27 | 32.2±0.24 | 4.2±1.04 | 66.2±19.30 | 6.0±1.26 |
| Jan-02 | 3.5±1.23 | 29.8±0.71 | 7.7±0.09 | 33.7±0.94 | 5.4±0.05 | 63.0±9.62 | 2.1±1.39 |

ตารางภาคผนวก 2 ค่าเฉลี่ยและค่าเบี่ยงเบนมาตรฐานของปัจจัยสิ่งแวดล้อมในหาดทราย

| Month | Depth (m) | Temperature (°C) | pH | Salinity (PSU) | DO (mg/l) | SS (mg/l) | Chlorophyll-a (mg/m ³) |
|--------|--------------|---------------------|----------|-------------------|--------------|--------------|---------------------------------------|
| Jan-01 | 2.6±0.78 | 29.8±0.24 | 7.8±0.22 | 29.8±0.71 | 7.0±0.16 | 40.3±5.00 | 3.2±1.22 |
| Feb-01 | 1.8±0.26 | 31.0±0.00 | 7.6±0.15 | 31.7±0.47 | 7.3±0.36 | 68.1±16.03 | 3.5±0.25 |
| Mar-01 | 1.7±0.16 | 30.7±0.12 | 7.7±0.01 | 26.3±0.94 | 6.6±0.16 | 61.7±14.85 | 2.8±1.91 |
| Apr-01 | 2.2±0.21 | 32.9±0.12 | 6.5±0.00 | 28.0±0.47 | 6.1±0.52 | 126.1±25.92 | 2.1±0.74 |
| May-01 | 2.4±0.52 | 32.0±0.00 | 7.8±0.01 | 29.7±0.47 | 5.9±0.05 | 49.2±1.70 | 0.6±0.00 |
| Jun-01 | 3.8±0.80 | 31.6±0.24 | 7.9±0.02 | 30.2±0.24 | 6.6±0.16 | 41.9±6.27 | 0.8±0.27 |
| Jul-01 | 2.8±1.01 | 31.2±0.24 | 7.7±0.24 | 31.2±0.24 | 6.4±0.10 | 63.5±6.18 | 1.4±0.40 |
| Aug-01 | 1.2±1.72 | 14.3±20.15 | 3.8±5.32 | 16.3±23.10 | 2.8±3.92 | 85.3±120.63 | 1.2±1.73 |
| Sep-01 | 1.9±0.87 | 32.6±0.35 | 8.0±0.02 | 32.3±0.00 | 5.9±0.14 | 76.3±17.68 | 1.3±0.23 |
| Oct-01 | 3.2±0.78 | 27.6±0.35 | 8.0±0.04 | 27.5±0.24 | 6.5±0.06 | 111.5±23.81 | 1.8±1.74 |
| Nov-01 | 2.9±1.04 | 30.7±0.12 | 7.9±0.05 | 28.3±0.94 | 5.8±0.33 | 61.9±0.24 | 3.0±0.79 |
| Dec-01 | 2.2±0.26 | 30.6±0.47 | 7.9±0.08 | 31.7±0.00 | 6.5±0.09 | 82.6±4.95 | 4.5±0.13 |
| Jan-02 | 2.8±1.01 | 29.2±0.23 | 7.8±0.08 | 34.8±0.23 | 5.7±0.00 | 57.3±2.62 | 0.5±0.14 |

ตารางภาคผนวก 3 ความสัมพันธ์ (correlation) ระหว่างปัจจัยสภาพแวดล้อมจากการวิเคราะห์ CCA ในป่าชายเลน

| | Depth | pH | Temperature | Salinity | DO | SS | Chlorophyll |
|-------------|--------|--------|-------------|----------|-------|-------|-------------|
| Depth | 1.00 | | | | | | |
| pH | 0.425 | 1.00 | | | | | |
| Temperature | -0.549 | -0.076 | 1.00 | | | | |
| Salinity | 0.358 | 0.379 | -0.137 | 1.00 | | | |
| DO | 0.014 | 0.496 | 0.068 | -0.266 | 1.00 | | |
| SS | 0.278 | -0.82 | 0.103 | -0.111 | 0.260 | 1.00 | |
| Chlorophyll | 0.083 | 0.297 | -0.460 | -0.071 | 0.028 | - | 1.00 |
| | | | | | | 0.379 | |

* = $p<0.05$

ตารางภาคผนวก 4 ความสัมพันธ์ (correlation) ระหว่างปัจจัยสภาพแวดล้อมจากการวิเคราะห์ CCA ในหาดทราย

| | Depth | pH | Temperature | Salinity | DO | SS | Chlorophyll |
|-------------|--------|--------|-------------|----------|--------|-------|-------------|
| Depth | 1.00 | | | | | | |
| pH | 0.176 | 1.00 | | | | | |
| Temperature | -0.362 | -0.438 | 1.00 | | | | |
| Salinity | 0.026 | 0.263 | -0.021 | 1.00 | | | |
| DO | -0.162 | 0.100 | -0.136 | -0.185 | 1.00 | | |
| SS | -0.142 | -0.954 | 0.326 | -0.284 | -0.185 | 1.00 | |
| Chlorophyll | -0.410 | -0.048 | 0.009 | -0.215 | 0.561 | 0.015 | 1.00 |

* = $p<0.05$

ตารางภาคผนวก 5 ค่า intraset correlation ระหว่าง CCA แกนที่ 1 และ 2 กับปัจจัยสภาพแวดล้อมในคลองไร่

| ปัจจัยสภาพแวดล้อม | Intraset correlation | |
|-----------------------|----------------------|--------------|
| | CCA แกนที่ 1 | CCA แกนที่ 2 |
| ความลึก | 0.687 | -0.300 |
| อุณหภูมิ | -0.241 | 0.076 |
| ค่า pH | -0.252 | -0.794 |
| ความเค็ม | -0.245 | 0.176 |
| ปริมาณออกซิเจนละลาย | 0.179 | -0.383 |
| ปริมาณตะกอนแขวนลอย | 0.504 | -0.217 |
| ปริมาณคลอโรฟิลล์ | -0.337 | -0.326 |
| Eigenvalues | 0.184 | 0.059 |
| %variance explained | 34.9 | 11.2 |
| %cumulative explained | 34.9 | 46.1 |

ตารางภาคผนวก 6 ค่า intraset correlation ระหว่าง CCA แกนที่ 1 และ 2 กับปัจจัยสภาพแวดล้อมในคลองโพรงพาง

| ปัจจัยสภาพแวดล้อม | Intraset correlation | |
|-----------------------|----------------------|--------------|
| | CCA แกนที่ 1 | CCA แกนที่ 2 |
| ความลึก | 0.416 | 0.127 |
| อุณหภูมิ | -0.170 | 0.020 |
| ค่า pH | -0.125 | 0.032 |
| ความเค็ม | 0.033 | -0.179 |
| ปริมาณออกซิเจนละลาย | -0.131 | -0.281 |
| ปริมาณตะกอนแขวนลอย | 0.854 | 0.339 |
| ปริมาณคลอโรฟิลล์ | -0.355 | -0.027 |
| Eigenvalues | 0.139 | 0.081 |
| %variance explained | 31.1 | 18.1 |
| %cumulative explained | 31.1 | 49.2 |

ตารางภาคผนวก 7 ค่า intraset correlation ระหว่าง CCA แกนที่ 1 และ 2 กับปัจจัยสภาพแวดล้อมในหาดทรายทางทิศเหนือ

| ปัจจัยสภาพแวดล้อม | Intraset correlation | |
|-----------------------|----------------------|--------------|
| | CCA แกนที่ 1 | CCA แกนที่ 2 |
| ความลึก | -0.626 | -0.511 |
| อุณหภูมิ | 0.271 | 0.119 |
| ค่า pH | -0.751 | 0.302 |
| ความเค็ม | -0.594 | 0.180 |
| ปริมาณออกซิเจนละลาย | -0.031 | 0.348 |
| ปริมาณตะกอนแขวนลอย | 0.704 | -0.374 |
| ปริมาณคลอโรฟิลล์ | 0.380 | 0.009 |
| Eigenvalues | 0.250 | 0.064 |
| %variance explained | 50.6 | 13.0 |
| %cumulative explained | 50.6 | 63.6 |

ตารางภาคผนวก 8 ค่า intraset correlation ระหว่าง CCA แกนที่ 1 และ 2 กับปัจจัยสภาพแวดล้อมในหาดทรายทางทิศใต้

| ปัจจัยสภาพแวดล้อม | Intraset correlation | |
|-----------------------|----------------------|--------------|
| | CCA แกนที่ 1 | CCA แกนที่ 2 |
| ความลึก | -0.002 | -0.396 |
| อุณหภูมิ | -0.443 | 0.553 |
| ค่า pH | 0.883 | -0.160 |
| ความเค็ม | 0.343 | 0.364 |
| ปริมาณออกซิเจนละลาย | -0.395 | 0.115 |
| ปริมาณตะกอนแขวนลอย | -0.767 | -0.361 |
| ปริมาณคลอโรฟิลล์ | -0.290 | 0.231 |
| Eigenvalues | 0.153 | 0.070 |
| %variance explained | 37.5 | 17.1 |
| %cumulative explained | 37.5 | 54.6 |

ตารางภาคผนวก 9 ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบในแต่ละ cluster ในแต่ละสถานี

| Phylum | taxa | I-1 | | I-2 | | II-1 | | II-2 | |
|---------------|----------------------------|---------|--------|---------|--------|----------|--------|---------|--------|
| | | ind./m3 | % | ind./m3 | % | ind./m3 | % | ind./m3 | % |
| Protozoa | <i>Acanthostomella</i> sp. | 0 | 0.00 | 0 | 0.00 | 9 | 0.01 | 33 | 0.02 |
| | <i>Codonellopsis</i> spp. | 2091 | 3.07 | 2372 | 2.68 | 3662 | 2.61 | 4917 | 2.78 |
| | <i>Dictyocysta</i> spp. | 1916 | 2.82 | 1611 | 1.82 | 6170 | 4.39 | 4711 | 2.66 |
| | <i>Eutintinnus</i> sp. | 9 | 0.01 | 28 | 0.03 | 44 | 0.03 | 17 | 0.01 |
| | <i>Favella</i> sp. | 124 | 0.18 | 110 | 0.12 | 234 | 0.17 | 179 | 0.10 |
| | Foraminifera | 6955 | 10.23 | 11981 | 13.53 | 11118 | 7.92 | 14438 | 8.16 |
| | <i>Leprotintinus</i> spp. | 1712 | 2.52 | 1125 | 1.27 | 5741 | 4.09 | 6652 | 3.76 |
| | <i>Stenosemella</i> sp. | 10 | 0.01 | 0 | 0.00 | 127 | 0.09 | 131 | 0.07 |
| | <i>Tintinnidium</i> sp. | 88 | 0.13 | 46 | 0.05 | 31 | 0.02 | 32 | 0.02 |
| | <i>Tintinnopsis</i> spp. | 14843 | 21.83 | 18259 | 20.62 | 41977 | 29.90 | 43622 | 24.67 |
| | <i>Undella</i> sp. | 104 | 0.15 | 22 | 0.03 | 16 | 0.01 | 60 | 0.03 |
| Cnidaria | Medusae | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Ctenophora | Comb jelly | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Nematoda | Nematode | 22 | 0.03 | 8 | 0.01 | 0 | 0.00 | 0 | 0.00 |
| Rotifera | <i>Brachionus</i> sp. | 46 | 0.07 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Chaetognatha | <i>Sagitta</i> spp. | 21.00 | 0.03 | 86 | 0.10 | 79 | 0.06 | 206 | 0.12 |
| Annelida | Polychaete larvae | 347.00 | 0.51 | 1363 | 1.54 | 500 | 0.36 | 717 | 0.41 |
| Arthropoda | Nauplius crustacea | 13540 | 19.91 | 22938 | 25.87 | 43423 | 30.93 | 59576 | 33.69 |
| | Copepodite | 7433 | 10.93 | 7600 | 8.58 | 8965 | 6.38 | 15155 | 8.57 |
| | Calanoida | 6359 | 9.35 | 3899 | 4.40 | 5764 | 4.11 | 4691 | 2.65 |
| | Cyclopoida | 1142 | 1.68 | 1044 | 1.18 | 1173 | 0.84 | 1999 | 1.13 |
| | Harpacticoida | 1567 | 2.31 | 2041 | 2.30 | 834 | 0.59 | 2905 | 1.64 |
| | Banarctic nauplius | 166 | 0.24 | 245 | 0.28 | 1664 | 1.18 | 2324 | 1.31 |
| | <i>Acetes</i> spp. | 4 | 0.01 | 1 | 0.00 | 1 | 0.00 | 0 | 0.00 |
| | Alima larvae | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| | Anumura larvae | 0 | 0.00 | 2 | 0.00 | 0 | 0.00 | 1 | 0.00 |
| | Crab larvae | 84 | 0.12 | 180 | 0.20 | 387 | 0.28 | 1009 | 0.57 |
| | <i>Lucifer</i> spp. | 18 | 0.03 | 58 | 0.07 | 353 | 0.25 | 684 | 0.39 |
| | <i>Mysid</i> spp. | 48 | 0.07 | 20 | 0.02 | 5 | 0.00 | 109 | 0.06 |
| | Shrimp larvae | 4 | 0.01 | 13 | 0.01 | 37 | 0.03 | 77 | 0.04 |
| | | | | | | | | | |
| Mollusca | Bivalve larvae | 2450 | 3.60 | 3931 | 4.44 | 5222 | 3.72 | 7256 | 4.10 |
| | Gastropod larvae | 7246 | 10.66 | 9526 | 10.76 | 2941 | 2.09 | 4691 | 2.65 |
| Echinodermata | Echinopluteus larvae | 0 | 0.00 | 0 | 0.00 | 11 | 0.01 | 17 | 0.01 |
| | <i>Ophiopleurus</i> spp. | 65 | 0.10 | 6 | 0.01 | 142 | 0.10 | 66 | 0.04 |
| Chordata | Fish larvae | 1 | 0.00 | 5 | 0.01 | 0 | 0.00 | 5 | 0.00 |
| | <i>Oikopleura</i> spp. | 11 | 0.02 | 54 | 0.06 | 354 | 0.25 | 545 | 0.31 |
| | Total | 67992 | 100.00 | 88538 | 100.00 | 140405.2 | 100.00 | 176827 | 100.00 |

ตารางภาคผนวก 10 ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบในแต่ละ cluster ในแต่ละเดือน
บริเวณป่าชายเลน

| Phylum | taxa | I-1 | | I-2 | | II | |
|---------------|----------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| | | ind./m ³ | % | ind./m ³ | % | ind./m ³ | % |
| Protozoa | <i>Acanthostomella</i> sp. | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| | <i>Codonellopsis</i> spp. | 402 | 0.98 | 2630 | 2.95 | 6724 | 3.62 |
| | <i>Dictyocysta</i> spp. | 319 | 0.68 | 1493 | 1.68 | 6772 | 3.46 |
| | <i>Eutintinnus</i> sp. | 0 | 0.00 | 28 | 3.03 | 48 | 0.03 |
| | <i>Favella</i> sp. | 17 | 0.04 | 172 | 0.19 | 283 | 0.16 |
| | Foraminifera | 1361 | 3.58 | 14078 | 15.90 | 22262 | 11.58 |
| | <i>Leptotintinnus</i> spp. | 356 | 0.95 | 677 | 0.76 | 6460 | 3.63 |
| | <i>Stenosemella</i> sp. | 0 | 0.00 | 13 | 0.01 | 0 | 0.00 |
| | <i>Tintinnidium</i> sp. | 0 | 0.00 | 0 | 0.00 | 435 | 0.26 |
| | <i>Tintinnopsis</i> spp. | 5186 | 12.03 | 17131 | 19.49 | 49185 | 25.30 |
| | <i>Undella</i> sp. | 24 | 0.10 | 18 | 0.02 | 290 | 0.17 |
| Cnidaria | Medusae | 1 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Ctenophora | Comb jelly | 0 | 0.00 | 1 | 0.00 | 0 | 0.00 |
| Nematoda | Nematode | 1 | 0.00 | 35 | 0.04 | 5 | 0.00 |
| Rotifera | <i>Brachionus</i> sp. | 0 | 0.00 | 59 | 0.07 | 0 | 0.00 |
| Chaetognatha | <i>Sagitta</i> spp. | 16 | 0.07 | 50 | 0.06 | 171 | 0.09 |
| Annelida | Polychaete larvae | 26 | 0.09 | 408 | 0.45 | 4461 | 2.15 |
| Arthropoda | Nauplius crustacea | 10606 | 38.74 | 22890 | 26.04 | 29415 | 14.96 |
| | Copepodite | 1726 | 4.70 | 8696 | 9.72 | 22266 | 11.25 |
| | Calanoida | 4815 | 19.72 | 4353 | 4.93 | 8011 | 3.96 |
| | Cyclopoida | 712 | 2.00 | 934 | 1.05 | 2798 | 1.32 |
| | Harpacticoida | 316 | 0.83 | 2072 | 2.35 | 5599 | 2.64 |
| | Banarcle nauplius | 321 | 0.88 | 59 | 0.07 | 223 | 0.11 |
| | <i>Acetes</i> spp. | 2 | 0.01 | 4 | 0.00 | 2 | 0.00 |
| | Alima larvae | 0 | 0.00 | 1 | 0.00 | 0 | 0.00 |
| | Anumura larvae | 0 | 0.00 | 2 | 0.00 | 13 | 0.01 |
| | Crab larvae | 9 | 0.03 | 24 | 0.03 | 774 | 0.42 |
| | <i>Lucifer</i> spp. | 22 | 0.09 | 53 | 0.06 | 50 | 0.03 |
| | <i>Mysid</i> spp. | 42 | 0.19 | 37 | 0.04 | 4 | 0.00 |
| | Shrim larvae | 9 | 0.02 | 5 | 0.01 | 16 | 0.01 |
| Mollusca | Bivalve larvae | 903 | 3.13 | 5682 | 6.37 | 3821 | 1.90 |
| | Gastropod larvae | 2847 | 11.21 | 7483 | 8.22 | 27259 | 15.04 |
| Echinodermata | Echinopluteus larvae | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| | <i>Ophiopleutus</i> spp. | 0 | 0.00 | 0 | 0.00 | 232 | 0.14 |
| Chordata | Fish larvae | 5 | 0.01 | 2 | 0.00 | 1 | 0.00 |
| | <i>Oikopleura</i> spp. | 20 | 0.07 | 60 | 0.07 | 3 | 0.00 |
| Total | | 30020 | 100.00 | 88597 | 100.00 | 192947 | 100.00 |

ตารางภาคผนวก 11 ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบในแต่ละ cluster ในแต่ละ
เดือนบริเวณหาดทราย

| Phylum | Taxa | I-1 | | I-2 | | II | |
|--------------|----------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| | | ind./m ³ | % | ind./m ³ | % | ind./m ³ | % |
| Protozoa | <i>Acanthostomella</i> sp. | 40 | 0.01 | 0 | 0.00 | 0 | 0.00 |
| | <i>Codonellopsis</i> spp. | 6206 | 2.96 | 1060 | 1.30 | 7020 | 2.03 |
| | <i>Dictyocysta</i> spp. | 5335 | 2.51 | 1079 | 1.32 | 27988 | 8.10 |
| | <i>Eutintinnus</i> sp. | 57 | 0.02 | 0 | 0.00 | 0 | 0.00 |
| | <i>Favella</i> sp. | 374 | 0.22 | 13 | 0.02 | 0 | 0.00 |
| | Foraminifera | 25022 | 11.07 | 4802 | 5.87 | 6561 | 1.90 |
| | <i>Leprotintinnus</i> spp. | 8508 | 4.40 | 476 | 0.58 | 18618 | 5.39 |
| | <i>Stenosemella</i> sp. | 225 | 0.18 | 71 | 0.09 | 0 | 0.00 |
| | <i>Tintinnidium</i> sp. | 59 | 0.02 | 0 | 0.00 | 0 | 0.00 |
| | <i>Tintinnopsis</i> spp. | 43135 | 20.79 | 21418 | 26.18 | 166714 | 48.25 |
| | <i>Undella</i> sp. | 62 | 0.03 | 11 | 0.01 | 0 | 0.00 |
| Cnidaria | Medusae | 1 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Ctenophora | Comb jelly | 4 | 0.00 | 0 | 0.00 | 29 | 0.01 |
| Nematoda | Nematode | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Rotifera | <i>Brachionus</i> sp. | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Chaetognatha | <i>Sagitta</i> spp. | 116 | 0.06 | 32 | 0.04 | 865 | 0.25 |
| Annelida | Polychaete larvae | 696 | 0.29 | 561 | 0.69 | 227 | 0.07 |
| Arthropoda | Nauplius crustacea | 64342 | 35.16 | 29806 | 36.43 | 70069 | 20.28 |
| | Copepodite | 15925 | 7.57 | 9000 | 11.00 | 181 | 0.05 |
| | Calanoida | 6398 | 3.24 | 2814 | 3.44 | 23794 | 6.88 |
| | Cyclopoida | 4068 | 2.07 | 1198 | 1.47 | 8167 | 2.36 |
| | Harpatoida | 1769 | 0.72 | 1518 | 1.86 | 575 | 0.17 |
| | Bandic nauplius | 2876 | 1.47 | 276 | 0.34 | 4326 | 1.25 |
| | <i>Acetes</i> spp. | 1 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| | Alima larvae | 1 | 0.00 | 1 | 0.00 | 0 | 0.00 |
| | Anomura larvae | 0 | 0.00 | 2 | 0.00 | 0 | 0.00 |
| | Crab larvae | 505 | 0.24 | 107 | 0.13 | 5000 | 1.45 |
| | <i>Lucifer</i> spp. | 790 | 0.40 | 53 | 0.06 | 944 | 0.27 |
| | <i>Mysid</i> spp. | 24 | 0.01 | 0 | 0.00 | 566 | 0.16 |
| | Shrim larvae | 49 | 0.03 | 24 | 0.03 | 282 | 0.08 |
| | Bivalve larvae | 8212 | 4.47 | 4053 | 4.95 | 2580 | 0.75 |
| | Gastropod larvae | 4322 | 2.14 | 3291 | 4.02 | 1916 | 0.55 |
| | Echinopluteus larvae | 25 | 0.01 | 0 | 0.00 | 0 | 0.00 |
| | <i>Ophiopleutus</i> spp. | 124 | 0.05 | 103 | 0.13 | 0 | 0.00 |
| Chordata | Fish larvae | 3 | 0.00 | 2 | 0.00 | 0 | 0.00 |
| | <i>Oikopleura</i> spp. | 353 | 0.18 | 629 | 0.77 | 228 | 0.07 |
| | Total | 198811 | 100.00 | 81807 | 100.00 | 345519 | 100.00 |

ตารางภาคผนวก 12 เปอร์เซ็นต์ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบแต่ละ cluster
ในแต่ละสถานี

| Phylum | taxa | I-1 | I-2 | II-1 | II-2 | Total |
|---------------|----------------------------|--------|-------|-------|-------|--------|
| Protozoa | <i>Acanthostomella</i> sp. | 0.00 | 0.00 | 21.72 | 78.28 | 100.00 |
| | <i>Codonellopsis</i> spp | 16.03 | 18.19 | 28.08 | 37.70 | 100.00 |
| | <i>Dictyocysta</i> spp. | 13.30 | 11.18 | 42.82 | 32.70 | 100.00 |
| | <i>Eutintinnus</i> sp. | 9.01 | 28.27 | 45.56 | 17.16 | 100.00 |
| | <i>Favella</i> sp. | 19.16 | 17.02 | 36.17 | 27.65 | 100.00 |
| | Foraminifera | 15.63 | 26.93 | 24.99 | 32.45 | 100.00 |
| | <i>Leprotintinnus</i> spp. | 11.24 | 7.38 | 37.70 | 43.68 | 100.00 |
| | <i>Stenosemella</i> sp. | 3.65 | 0.00 | 47.38 | 48.96 | 100.00 |
| | <i>Tintinnidium</i> sp. | 44.63 | 23.34 | 15.74 | 16.29 | 100.00 |
| | <i>Tintinnopsis</i> spp. | 12.50 | 15.38 | 35.36 | 36.75 | 100.00 |
| | <i>Undella</i> sp. | 51.32 | 11.08 | 7.87 | 29.73 | 100.00 |
| Cnidaria | Medusae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ctenophora | Comb jelly | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nematoda | Nematode | 73.33 | 26.67 | 0.00 | 0.00 | 100.00 |
| Rotifera | <i>Brachionus</i> sp. | 100.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| Chaetognatha | <i>Sagitta</i> spp | 5.36 | 21.91 | 20.06 | 52.66 | 100.00 |
| Annelida | Polychaete larvae | 11.85 | 46.56 | 17.09 | 24.50 | 100.00 |
| Arthropoda | Nauplius crustacea | 9.71 | 16.43 | 31.14 | 42.72 | 100.00 |
| | Copepodite | 18.98 | 19.41 | 22.90 | 38.71 | 100.00 |
| | Calanoida | 30.70 | 18.82 | 27.83 | 22.65 | 100.00 |
| | Cyclopoida | 21.32 | 19.49 | 21.88 | 37.31 | 100.00 |
| | Harpacticoida | 21.33 | 27.78 | 11.35 | 39.54 | 100.00 |
| | Banarole nauplius | 3.77 | 5.56 | 37.83 | 52.84 | 100.00 |
| | <i>Acetes</i> spp. | 68.46 | 21.79 | 9.76 | 0.00 | 100.00 |
| | Alima larvae | 51.44 | 0.00 | 0.00 | 48.56 | 100.00 |
| | Anumura larvae | 9.26 | 47.84 | 8.86 | 34.03 | 100.00 |
| | Crab larvae | 5.08 | 10.84 | 23.31 | 60.77 | 100.00 |
| | <i>Lucifer</i> spp. | 1.60 | 5.25 | 31.73 | 61.43 | 100.00 |
| | <i>Mysid</i> spp. | 26.50 | 10.94 | 2.77 | 59.79 | 100.00 |
| | Shirm larvae | 2.98 | 9.73 | 28.29 | 59.00 | 100.00 |
| | | | | | | |
| Mollusca | Bivalve larvae | 12.99 | 20.85 | 27.69 | 38.47 | 100.00 |
| | Gastropod larvae | 29.69 | 39.03 | 12.05 | 19.22 | 100.00 |
| Echinodermata | Echinopleuteus larvae | 0.00 | 0.00 | 39.42 | 60.58 | 100.00 |
| | <i>Ophiopleuteus</i> spp. | 23.21 | 2.12 | 50.37 | 24.29 | 100.00 |
| Chordata | Fish larvae | 11.77 | 47.01 | 0.62 | 40.59 | 100.00 |
| | <i>Oikopleura</i> spp. | 1.18 | 5.60 | 36.71 | 56.51 | 100.00 |
| | Total | 14.35 | 18.69 | 29.64 | 37.32 | 100.00 |

ตารางภาคผนวก 13 เปอร์เซนต์ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบในแต่ละ cluster
ในแต่ละเดือนบริเวณป่าชายเลน

| Phylum | taxa | I-1 | I-2 | II | Total |
|---------------|----------------------------|-------|--------|--------|--------|
| Protozoa | <i>Acanthostomella</i> sp. | 0.00 | 0.00 | 0.00 | 0.00 |
| | <i>Codonellopsis</i> spp. | 4.12 | 26.96 | 68.92 | 100.00 |
| | <i>Dictyocysta</i> spp. | 3.72 | 17.39 | 78.89 | 100.00 |
| | <i>Eutintinnus</i> sp. | 0.00 | 36.60 | 63.40 | 100.00 |
| | <i>Favella</i> sp. | 3.51 | 36.47 | 60.02 | 100.00 |
| | Foraminifera | 3.61 | 37.34 | 59.05 | 100.00 |
| | <i>Leprotintinus</i> spp. | 4.75 | 9.03 | 86.22 | 100.00 |
| | <i>Stenosemella</i> sp. | 0.00 | 100.00 | 0.00 | 100.00 |
| | <i>Tintinnidium</i> sp. | 0.00 | 0.00 | 100.00 | 100.00 |
| | <i>Tintinnopsis</i> spp. | 7.25 | 23.96 | 68.79 | 100.00 |
| | <i>Undella</i> sp. | 7.33 | 5.48 | 87.19 | 100.00 |
| Cnidaria | Medusae | 66.34 | 33.66 | 0.00 | 100.00 |
| Ctenophora | Comb jelly | 11.37 | 88.63 | 0.00 | 100.00 |
| Nematoda | Nematode | 2.09 | 85.74 | 12.17 | 100.00 |
| Rotifera | <i>Brachionus</i> sp. | 0.00 | 100.00 | 0.00 | 100.00 |
| Chaetognatha | <i>Sagitta</i> spp. | 6.88 | 21.08 | 72.04 | 100.00 |
| Annelida | Polychaete larvae | 0.53 | 8.34 | 91.14 | 100.00 |
| Arthropoda | Nauplius crustacea | 16.86 | 36.38 | 46.76 | 100.00 |
| | Copepodite | 5.28 | 26.60 | 68.12 | 100.00 |
| | Calanoida | 28.03 | 25.34 | 46.63 | 100.00 |
| | Cyclopoida | 16.02 | 21.02 | 62.96 | 100.00 |
| | Harpacticoida | 3.95 | 25.95 | 70.10 | 100.00 |
| | Banaricle nauplius | 53.29 | 9.79 | 36.92 | 100.00 |
| | <i>Acetes</i> spp. | 28.25 | 43.55 | 28.20 | 100.00 |
| | Alima larvae | 15.70 | 84.30 | 0.00 | 100.00 |
| | Anumura larvae | 0.20 | 11.41 | 88.39 | 100.00 |
| | Crab larvae | 1.16 | 3.01 | 95.83 | 100.00 |
| | <i>Lucifer</i> spp. | 17.28 | 42.61 | 40.11 | 100.00 |
| | <i>Mysid</i> spp. | 50.75 | 44.39 | 4.86 | 100.00 |
| | Shirm larvae | 28.82 | 16.11 | 55.07 | 100.00 |
| | | | | | |
| Mollusca | Bivalve lavrvae | 8.68 | 54.60 | 36.72 | 100.00 |
| | Gastropod larvae | 7.57 | 19.91 | 72.52 | 100.00 |
| Echinodermata | Echinopluteus larvae | 0.00 | 0.00 | 0.00 | 0.00 |
| | <i>Ophiopleutus</i> spp. | 0.00 | 0.00 | 100.00 | 100.00 |
| Chordata | Fish larvae | 61.48 | 23.20 | 15.32 | 100.00 |
| | <i>Oikopleura</i> spp. | 24.27 | 72.66 | 3.08 | 100.00 |
| | Total | 9.64 | 28.44 | 61.93 | 100.00 |

ตารางภาคผนวก 14 เปอร์เซ็นต์ความหนาแน่นเฉลี่ยของแพลงก์ตอนสัตว์ที่พบในแต่ละ cluster
ในแต่ละเดือนบริเวณหาดทราย

| Phylum | taxa | I-1 | I-2 | II | Total |
|---------------|----------------------------|--------|-------|-------|--------|
| Protozoa | <i>Acanthostomella</i> sp. | 100.00 | 0.00 | 0.00 | 100.00 |
| | <i>Codonellopsis</i> spp. | 43.44 | 7.42 | 49.14 | 100.00 |
| | <i>Dictyocysta</i> spp. | 15.51 | 3.14 | 81.35 | 100.00 |
| | <i>Eutimninus</i> sp. | 100.00 | 0.00 | 0.00 | 100.00 |
| | <i>Favella</i> sp. | 96.58 | 3.42 | 0.00 | 100.00 |
| | Foraminifera | 68.77 | 13.20 | 18.03 | 100.00 |
| | <i>Leptotintinus</i> spp. | 30.82 | 1.73 | 67.45 | 100.00 |
| | <i>Stenosemella</i> sp. | 76.05 | 23.95 | 0.00 | 100.00 |
| | <i>Tintinnidium</i> sp. | 100.00 | 0.00 | 0.00 | 100.00 |
| | <i>Tintinnopsis</i> spp. | 18.65 | 9.26 | 72.09 | 100.00 |
| | <i>Undella</i> sp. | 84.73 | 15.27 | 0.00 | 100.00 |
| Cnidaria | Medusae | 100.00 | 0.00 | 0.00 | 100.00 |
| Ctenophora | Comb jelly | 12.94 | 0.00 | 87.06 | 100.00 |
| Nematoda | Nematode | 0.00 | 0.00 | 0.00 | 0.00 |
| Rotifera | <i>Brachionus</i> sp. | 0.00 | 0.00 | 0.00 | 0.00 |
| Chaetognatha | <i>Sagitta</i> spp. | 11.49 | 3.18 | 85.33 | 100.00 |
| Annelida | Polychaete larvae | 46.88 | 37.81 | 15.32 | 100.00 |
| Arthropoda | Nauplius crustacea | 39.18 | 18.15 | 42.67 | 100.00 |
| | Copepodite | 63.43 | 35.85 | 0.72 | 100.00 |
| | Calanoida | 19.39 | 8.53 | 72.08 | 100.00 |
| | Cyclopoida | 30.28 | 8.92 | 60.80 | 100.00 |
| | Harpacticoida | 45.80 | 39.31 | 14.89 | 100.00 |
| | Baranicle nauplius | 38.46 | 3.69 | 57.84 | 100.00 |
| | <i>Acetes</i> spp. | 100.00 | 0.00 | 0.00 | 100.00 |
| | Alima larvae | 31.13 | 68.87 | 0.00 | 100.00 |
| | Anumura larvae | 18.28 | 81.72 | 0.00 | 100.00 |
| | Crab larvae | 9.00 | 1.90 | 89.10 | 100.00 |
| | <i>Lucifer</i> spp. | 44.21 | 2.96 | 52.83 | 100.00 |
| | <i>Mysid</i> spp. | 4.13 | 0.06 | 95.81 | 100.00 |
| | Shrim larvae | 13.82 | 8.64 | 79.53 | 100.00 |
| | | | | | |
| Mollusca | Bivalve larvae | 55.32 | 27.30 | 17.38 | 100.00 |
| | Gastropod larvae | 45.35 | 34.53 | 20.11 | 100.00 |
| Echinodermata | Echinopluteus larvae | 100.00 | 0.00 | 0.00 | 100.00 |
| | <i>Ophiopleutus</i> spp. | 54.64 | 45.36 | 0.00 | 100.00 |
| Chordata | Fish larvae | 61.30 | 38.70 | 0.00 | 100.00 |
| | <i>Oikopleura</i> spp. | 29.15 | 52.00 | 18.85 | 100.00 |
| | Total | 31.75 | 13.07 | 55.18 | 100.00 |