| **Phylum** | **Class** | **Order** | **Family** | **Genus** | **Species Name** |
| --- | --- | --- | --- | --- | --- |
| **แพลงก์ตอนพืช** | | | | | |
| **Ochrophyta** | **Bacillariophyceae** | Achnanthales | Cocconeidaceae | Cocconeis | *Cocconeis sp.1* |
|  |  |  |  |  | *Cocconeis sp.2* |
|  |  | Asterolamprales | Asterolampraceae | Asterolampra | *Asterolampra marylandica* |
|  |  |  |  |  | *Asterolampra sp.* |
|  |  |  |  | Asteromphalus | *Asteromphalus sp.1* |
|  |  |  |  |  | *Asteromphalus cleveanus* |
|  |  |  |  |  | *Asteromphalus elegans* |
|  |  |  |  |  | *Asteromphalus sp.2* |
|  |  |  |  |  | *Asteromphalus flabellatus* |
|  |  |  |  |  | *Asteromphalus sp.* |
|  |  | Aulacoseirales | Aulacoseiraceae | Aulacoseira | *Aulacoseira sp.1* |
|  |  | Bacillariales | Bacillariaceae | Bacillaria | *Bacillaria paxillifer* |
|  |  |  |  |  | *Bacillaria sp.* |
|  |  |  |  | Cylindrotheca | *Cylindrotheca sp.1* |
|  |  |  |  |  | *Cylindrotheca closterium* |
|  |  |  |  |  | *Cylindrotheca sp.* |
|  |  |  |  | Nitzschia | *Nitzschia sp.3* |
|  |  |  |  |  | *Nitzschia sp.5* |
|  |  |  |  |  | *Nitzschia sp.4* |
|  |  |  |  |  | *Nitzschia lorenziana* |
|  |  |  |  |  | *Nitzschia sp.9* |
|  |  |  |  |  | *Nitzschia sp.10* |
|  |  |  |  |  | *Nitzschia longissima* |
|  |  |  |  |  | *Nitzschia sp.1* |
|  |  |  |  |  | *Nitzschia sp.11* |
|  |  |  |  |  | *Nitzschia sp.2* |
|  |  |  |  | Pseudo-nitzschia | *Pseudo-nitzschia sp.1* |
|  |  |  |  |  | *Pseudo-nitzschia sp.* |
|  |  |  |  | Tryblionella | *Tryblionella sp.* |
|  |  | Biddulphiales | Biddulphiaceae | Bellerochea | *Bellerochea sp.* |
|  |  |  |  | Biddulphia | *Biddulphia sp.1* |
|  |  |  |  |  | *Biddulphia sp.* |
|  |  | Chaetocerotales | Chaetocerotaceae | Bacteriastrum | *Bacteriastrum furcatum* |
|  |  |  |  |  | *Bacteriastrum hyalinum* |
|  |  |  |  |  | *Bacteriastrum comosum* |
|  |  |  |  |  | *Bacteriastrum sp.1* |
|  |  |  |  |  | *Bacteriastrum sp.2* |
|  |  |  |  |  | *Bacteriastrum sp.4* |
|  |  |  |  |  | *Bacteriastrum sp.3* |
|  |  |  |  | Chaetoceros | *Chaetoceros messanense* |
|  |  |  |  |  | *Chaetoceros lorenzianus* |
|  |  |  |  |  | *Chaetoceros compressus* |
|  |  |  |  |  | *Chaetoceros coarctatus* |
|  |  |  |  |  | *Chaetoceros aequatorialis* |
|  |  |  |  |  | *Chaetoceros affinis* |
|  |  |  |  |  | *Chaetoceros sp.5* |
|  |  |  |  |  | *Chaetoceros atlanticus* |
|  |  |  |  |  | *Chaetoceros diversus* |
|  |  |  |  |  | *Chaetoceros didymus* |
|  |  |  |  |  | *Chaetoceros sp.3* |
|  |  |  |  |  | *Chaetoceros peruvianus* |
|  |  |  |  |  | *Chaetoceros sp.1* |
|  |  |  |  |  | *Chaetoceros sp.10* |
|  |  |  |  |  | *Chaetoceros sp.8* |
|  |  |  |  |  | *Chaetoceros pseudocurvisetus* |
|  |  |  |  |  | *Chaetoceros sp.4* |
|  |  |  |  |  | *Chaetoceros sp.7* |
|  |  |  |  |  | *Chaetoceros eibenii* |
|  |  |  |  |  | *Chaetoceros sp.11* |
|  |  |  |  |  | *Chaetoceros sp.2* |
|  |  |  |  |  | *Chaetoceros sp.15* |
|  |  |  |  |  | *Chaetoceros sp.12* |
|  |  |  |  |  | *Chaetoceros sp.6* |
|  |  |  |  |  | *Chaetoceros sp.14* |
|  |  |  |  |  | *Chaetoceros costatus* |
|  |  |  |  |  | *Chaetoceros tenuissimus* |
|  |  |  |  |  | *Chaetoceros sp.13* |
|  |  | Climacospheniales | Climacospheniaceae | Climacosphenia | *Climacosphenia sp.* |
|  |  | Corethrales | Corethraceae | Corethron | *Corethron criophilum* |
|  |  |  |  |  | *Corethron sp.* |
|  |  | Coscinodiscales | Coscinodiscaceae | Coscinodiscus | *Coscinodiscus sp.2* |
|  |  |  |  |  | *Coscinodiscus sp.6* |
|  |  |  |  |  | *Coscinodiscus sp.3* |
|  |  |  |  |  | *Coscinodiscus sp.5* |
|  |  |  |  |  | *Coscinodiscus sp.4* |
|  |  |  |  |  | *Coscinodiscus gigas* |
|  |  |  |  |  | *Coscinodiscus sp.10* |
|  |  |  |  |  | *Coscinodiscus sp.8* |
|  |  |  |  |  | *Coscinodiscus sp.1* |
|  |  |  |  |  | *Coscinodiscus sp.13* |
|  |  |  |  |  | *Coscinodiscus sp.15* |
|  |  |  |  |  | *Coscinodiscus sp.11* |
|  |  |  |  |  | *Coscinodiscus sp.9* |
|  |  |  |  |  | *Coscinodiscus sp.12* |
|  |  |  |  | Palmeria | *Palmeria hardmanniana* |
|  |  |  | Gossleriellaceae | Gossleriella | *Gossleriella tropica* |
|  |  |  |  |  | *Gossleriella sp.* |
|  |  |  | Heliopeltaceae | Actinoptychus | *Actinoptychus sp.1* |
|  |  |  |  |  | *Actinoptychus sp.2* |
|  |  |  |  |  | *Actinoptychus sp.* |
|  |  |  | Hemidiscaceae | Hemidiscus | *Hemidiscus cuneiformis* |
|  |  |  |  |  | *Hemidiscus sp.* |
|  |  |  |  | Pseudoguinardia | *Pseudoguinardia recta* |
|  |  | Cymatosirales | Cymatosiraceae | Cymatosira | *Cymatosira sp.1* |
|  |  | Cymbellales | Cymbellaceae | Cymbella | *Cymbella sp.1* |
|  |  | Fragilariales | Fragilariaceae | Asterionellopsis | *Asterionellopsis glacialis* |
|  |  |  |  | Bleakeleya | *Bleakeleya sp.* |
|  |  |  |  | Diatoma | *Diatoma sp.1* |
|  |  |  |  |  | *Diatoma sp.* |
|  |  |  |  | Fragilaria | *Fragilaria sp.1* |
|  |  |  |  |  | *Fragilaria sp.* |
|  |  |  |  |  | *Fragilaria sp.2* |
|  |  |  |  | Meridion | *Meridion sp.* |
|  |  | Hemiaulales | Hemiaulaceae | Cerataulina | *Cerataulina sp.1* |
|  |  |  |  | Climacodium | *Climacodium frauenfeldianum* |
|  |  |  |  |  | *Climacodium biconcavum* |
|  |  |  |  | Eucampia | *Eucampia zodiacus* |
|  |  |  |  |  | *Eucampia cornuta* |
|  |  |  |  |  | *Eucampia sp.* |
|  |  |  |  | Hemiaulus | *Hemiaulus membranaceus* |
|  |  |  |  |  | *Hemiaulus indicus* |
|  |  |  |  |  | *Hemiaulus sinensis* |
|  |  |  |  |  | *Hemiaulus hauckii* |
|  |  |  |  |  | *Hemiaulus sp.2* |
|  |  |  |  |  | *Hemiaulus sp.1* |
|  |  |  |  |  | *Hemiaulus sp.3* |
|  |  |  | Hemiaulaceae | Eucampia | *Eucampia zodiacus* |
|  |  | Leptocylindrales | Leptocylindraceae | Leptocylindrus | *Leptocylindrus mediterraneus* |
|  |  |  |  |  | *Leptocylindrus danicus* |
|  |  |  |  |  | *Leptocylindrus sp.* |
|  |  | Licmophorales | Licmophoraceae | Licmophora | *Licmophora flabellata* |
|  |  |  |  |  | *Licmophora sp.1* |
|  |  |  |  |  | *Licmophora dalmatica* |
|  |  | Lithodesmiales | Lithodesmaceae | Ditylum | *Ditylum brightwellii* |
|  |  |  |  |  | *Ditylum sp.1* |
|  |  |  |  |  | *Ditylum sp.2* |
|  |  |  |  | Helicotheca | *Helicotheca tamesis* |
|  |  |  |  |  | *Helicotheca sp.* |
|  |  |  |  | Lithodesmium | *Lithodesmium undulatum* |
|  |  |  |  |  | *Lithodesmium sp.2* |
|  |  |  |  |  | *Lithodesmium sp.1* |
|  |  | Lyrellales | Lyrellaceae | Lyrella | *Lyrella lyra* |
|  |  | Mastogloiales | Mastogloiaceae | Mastogloia | *Mastogloia sp.* |
|  |  | Melosirales | Melosiraceae | Melosira | *Melosira dubia* |
|  |  |  |  |  | *Melosira sp.2* |
|  |  |  | Stephanopyxidaceae | Stephanopyxis | *Stephanopyxis palmeriana* |
|  |  |  |  |  | *Stephanopyxis sp.* |
|  |  | Naviculales | Diploneidaceae | Diploneis | *Diploneis sp.1* |
|  |  |  |  |  | *Diploneis sp.2* |
|  |  |  |  |  | *Diploneis sp.3* |
|  |  |  |  |  | *Diploneis sp.5* |
|  |  |  |  |  | *Diploneis sp.* |
|  |  |  | Naviculaceae | Haslea | *Haslea sp.1* |
|  |  |  |  |  | *Haslea wawrikae* |
|  |  |  |  | Meuniera | *Meuniera sp.1* |
|  |  |  |  |  | *Meuniera sp.* |
|  |  |  |  | Navicula | *Navicula sp.1* |
|  |  |  |  |  | *Navicula sp.4* |
|  |  |  |  |  | *Navicula sp.3* |
|  |  |  |  |  | *Navicula sp.2* |
|  |  |  |  |  | *Navicula sp.7* |
|  |  |  |  |  | *Navicula sp.6* |
|  |  |  |  |  | *Navicula sp.5* |
|  |  |  |  | Trachyneis | *Trachyneis sp.1* |
|  |  |  |  |  | *Trachyneis sp.* |
|  |  |  | Pinnulariaceae | Pinnularia | *Pinnularia sp.2* |
|  |  |  | Pleurosigmataceae | Gyrosigma | *Gyrosigma sp.1* |
|  |  |  |  |  | *Gyrosigma sp.3* |
|  |  |  |  |  | *Gyrosigma sp.* |
|  |  |  |  | Pleurosigma | *Pleurosigma sp.2* |
|  |  |  |  |  | *Pleurosigma sp.4* |
|  |  |  |  |  | *Pleurosigma sp.5* |
|  |  |  |  |  | *Pleurosigma sp.1* |
|  |  |  |  |  | *Pleurosigma sp.6* |
|  |  |  | Stauroneidaceae | Stauroneis | *Stauroneis salina* |
|  |  | Paraliales | Paraliaceae | Paralia | *Paralia sulcata* |
|  |  |  |  |  | *Paralia sp.* |
|  |  | Rhabdonematales | Rhabdonemataceae | Rhabdonema | *Rhabdonema sp.1* |
|  |  | Rhizosoleniales | Rhizosoleniaceae | Dactyliosolen | *Dactyliosolen fragilissimus* |
|  |  |  |  |  | *Dactyliosolen blavyanus* |
|  |  |  |  | Guinardia | *Guinardia striata* |
|  |  |  |  |  | *Guinardia flaccida* |
|  |  |  |  |  | *Guinardia sp.* |
|  |  |  |  | Proboscia | *Proboscia alata* |
|  |  |  |  | Rhizosolenia | *Rhizosolenia styliformis* |
|  |  |  |  |  | *Pseudosolenia calcar-avis* |
|  |  |  |  |  | *Rhizosolenia sp.3* |
|  |  |  |  |  | *Rhizosolenia robusta* |
|  |  |  |  |  | *Rhizosolenia clevei var. communis* |
|  |  |  |  |  | *Rhizosolenia bergonii* |
|  |  |  |  |  | *Rhizosolenia cylindrus* |
|  |  |  |  |  | *Rhizosolenia hyalina* |
|  |  |  |  |  | *Rhizosolenia acuminata* |
|  |  |  |  |  | *Rhizosolenia pungens* |
|  |  |  |  |  | *Rhizosolenia imbricata* |
|  |  |  |  |  | *Rhizosolenia phuketensis* |
|  |  |  |  |  | *Rhizosolenia formosa* |
|  |  |  |  |  | *Rhizosolenia sp.2* |
|  |  |  |  |  | *Rhizosolenia sp.1* |
|  |  |  |  |  | *Rhizosolenia striata* |
|  |  | Rhopalodiales | Rhopalodiaceae | Epithemia | *Epithemia sp.* |
|  |  | Striatellales | Striatellaceae | Grammatophora | *Grammatophora sp.1* |
|  |  |  |  | Striatella | *Striatella sp.1* |
|  |  | Surirellales | Entomoneidaceae | Entomoneis | *Entomoneis sp.1* |
|  |  |  |  |  | *Entomoneis sp.2* |
|  |  |  |  |  | *Entomoneis sp.* |
|  |  |  | Surirellaceae | Campylodiscus | *Campylodiscus sp.1* |
|  |  |  |  |  | *Campylodiscus sp.2* |
|  |  |  |  |  | *Campylodiscus sp.* |
|  |  |  |  | Surirella | *Surirella sp.1* |
|  |  |  |  |  | *Surirella sp.2* |
|  |  | Tabellariales | Tabellariaceae | Tabellaria | *Tabellaria fenestrata* |
|  |  |  |  |  | *Tabellaria sp.1* |
|  |  | Thalassionematales | Thalassionemataceae | Lioloma | *Lioloma sp.* |
|  |  |  |  | Thalassionema | *Thalassionema nitzschioides* |
|  |  |  |  |  | *Thalassionema sp.1* |
|  |  |  |  |  | *Thalassionema sp.2* |
|  |  |  |  | Thalassiothrix | *Thalassiothrix sp.1* |
|  |  |  |  |  | *Thalassiothrix sp.2* |
|  |  |  |  |  | *Thalassiothrix sp.2* |
|  |  | Thalassiophysales | Catenulaceae | Amphora | *Amphora sp.2* |
|  |  |  |  |  | *Amphora sp.3* |
|  |  |  |  |  | *Amphora sp.* |
|  |  |  |  |  | *Amphora sp.1* |
|  |  |  |  |  | *Amphora sp.2* |
|  |  | Thalassiosirales | Lauderiaceae | Lauderia | *Lauderia annulata* |
|  |  |  |  |  | *Lauderia sp.* |
|  |  |  | Skeletonemataceae | Skeletonema | *Skeletonema sp.1* |
|  |  |  |  |  | *Skeletonema sp.* |
|  |  |  | Stephanodiscaceae | Cyclotella | *Cyclotella sp.1* |
|  |  |  |  |  | *Cyclotella sp.* |
|  |  |  | Thalassiosiraceae | Planktoniella | *Planktoniella blanda* |
|  |  |  |  |  | *Planktoniella sol* |
|  |  |  |  | Thalassiosira | *Thalassiosira subtilis* |
|  |  |  |  |  | *Thalassiosira sp.6* |
|  |  |  |  |  | *Thalassiosira sp.2* |
|  |  |  |  |  | *Thalassiosira sp.1* |
|  |  |  |  |  | *Thalassiosira sp.3* |
|  |  |  |  |  | *Thalassiosira sp.4* |
|  |  | Triceratiales | Triceratiaceae | Odontella | *Odontella sinensis* |
|  |  |  |  |  | *Odontella mobiliensis* |
|  |  |  |  |  | *Odontella aurita* |
|  |  |  |  |  | *Odontella sp.1* |
|  |  |  |  |  | *Odontella sp.2* |
|  |  |  |  | Pseudictyota | *Pseudictyota dubium* |
|  |  |  |  | Triceratium | *Triceratium sol* |
|  |  |  |  |  | *Triceratium favus* |
|  |  |  |  |  | *Triceratium sp.* |
|  |  |  |  |  | *Triceratium pentacrinus* |
|  | **Dictyochophyceae** | Dictyochales | Dictyochaceae | Dictyocha | *Dictyocha fibula* |
|  |  |  |  |  | *Dictyocha speculum* |
|  | **Phaeophyceae** | Ectocarpales | Chordariaceae | Pilinia | *Pilinia sp.* |
| **Myzozoa** | **Dinophyceae** | Dinophysiales | Amphisoleniaceae | Amphisolenia | *Amphisolenia bidentata* |
|  |  |  |  |  | *Amphisolenia sp.1* |
|  |  |  |  |  | *Amphisolenia sp.2* |
|  |  |  | Dinophysiaceae | Dinophysis | *Dinophysis argus* |
|  |  |  |  |  | *Dinophysis schuettii* |
|  |  |  |  |  | *Dinophysis miles* |
|  |  |  |  |  | *Dinophysis hastata* |
|  |  |  |  |  | *Dinophysis caudata* |
|  |  |  |  |  | *Dinophysis recurva* |
|  |  |  |  |  | *Dinophysis sp.3* |
|  |  |  |  |  | *Dinophysis sp.2* |
|  |  |  |  |  | *Dinophysis sp.1* |
|  |  |  |  | Histioneis | *Histioneis sp.1* |
|  |  |  |  |  | *Histioneis hyalina* |
|  |  |  |  |  | *Histioneis sp.2* |
|  |  |  |  |  | *Histioneis sp.3* |
|  |  |  |  | Ornithocercus | *Ornithocercus thumii* |
|  |  |  |  |  | *Ornithocercus sp.1* |
|  |  |  |  |  | *Ornithocercus sp.2* |
|  |  |  |  |  | *Ornithocercus sp.* |
|  |  |  | Oxyphysaceae | Phalacroma | *Phalacroma doryphorum* |
|  |  |  |  |  | *Phalacroma cuneus* |
|  |  |  |  |  | *Phalacroma favus* |
|  |  |  |  |  | *Phalacroma mitra* |
|  |  |  |  |  | *Phalacroma sp.1* |
|  |  |  |  |  | *Phalacroma sp.2* |
|  |  |  |  |  | *Phalacroma sp.3* |
|  |  | Gonyaulacales | Ceratiaceae | Ceratium | *Ceratium extensum* |
|  |  |  |  |  | *Ceratium porrectum* |
|  |  |  |  |  | *Ceratium sp.1* |
|  |  |  |  |  | *Ceratium sp.6* |
|  |  |  |  |  | *Ceratium sp.5* |
|  |  |  |  |  | *Ceratium sp.4* |
|  |  |  |  |  | *Ceratium sp.3* |
|  |  |  |  |  | *Ceratium sp.11* |
|  |  |  |  |  | *Ceratium sp.9* |
|  |  |  |  |  | *Ceratium sp.2* |
|  |  |  |  |  | *Ceratium sp.10* |
|  |  |  |  |  | *Ceratium sp.12* |
|  |  |  |  | Tripos | *Tripos horridus* |
|  |  |  |  |  | *Tripos furca* |
|  |  |  |  |  | *Tripos fusus* |
|  |  |  |  |  | *Tripos muelleri* |
|  |  |  |  |  | *Tripos trichoceros* |
|  |  |  |  |  | *Tripos deflexus* |
|  |  |  |  |  | *Tripos kofoidii* |
|  |  |  |  |  | *Tripos massiliensis* |
|  |  |  |  |  | *Tripos contortus* |
|  |  |  |  |  | *Tripos brevis* |
|  |  |  |  |  | *Tripos teres* |
|  |  |  |  |  | *Tripos dens* |
|  |  |  |  |  | *Tripos gibberus* |
|  |  |  |  |  | *Tripos candelabrum* |
|  |  |  |  |  | *Tripos falcatus* |
|  |  |  |  |  | *Tripos carriensis* |
|  |  |  |  |  | *Tripos macroceros* |
|  |  |  |  |  | *Tripos belone* |
|  |  |  |  |  | *Tripos pentagonus* |
|  |  |  |  |  | *Tripos hircus* |
|  |  |  |  |  | *Tripos karstenii* |
|  |  |  |  |  | *Tripos inflatus* |
|  |  |  | Ceratocoryaceae | Ceratocorys | *Ceratocorys horrida* |
|  |  |  |  |  | *Ceratocorys sp.1* |
|  |  |  |  |  | *Ceratocorys armata* |
|  |  |  | Cladopyxidaceae | Cladopyxis | *Cladopyxis sp.* |
|  |  |  | Gonyaulacaceae | Gonyaulax | *Gonyaulax sp.3* |
|  |  |  |  |  | *Gonyaulax sp.5* |
|  |  |  |  |  | *Gonyaulax sp.1* |
|  |  |  |  |  | *Gonyaulax sp.2* |
|  |  |  |  |  | *Gonyaulax sp.4* |
|  |  |  |  |  | *Gonyaulax sp.6* |
|  |  |  |  |  | *Gonyaulax spinifera* |
|  |  |  |  |  | *Gonyaulax sp.* |
|  |  |  |  |  | *Gonyaulax digitale* |
|  |  |  |  | Lingulodinium | *Lingulodinium sp.1* |
|  |  |  |  |  | *Lingulodinium polyedra* |
|  |  |  |  |  | *Lingulodinium sp.* |
|  |  |  |  | Protoceratium | *Protoceratium sp.* |
|  |  |  | Ostreopsidaceae | Alexandrium | *Alexandrium sp.1* |
|  |  |  | Pyrophacaceae | Pyrophacus | *Pyrophacus steinii* |
|  |  |  |  |  | *Pyrophacus horologium* |
|  |  |  | Pyrophaceae | Fragilidium | *Fragilidium sp.* |
|  |  | Gymnodiniales | Gymnodiniaceae | Gymnodinium | *Gymnodinium sp.2* |
|  |  |  |  |  | *Gymnodinium sp.1* |
|  |  |  |  |  | *Gymnodinium sp.7* |
|  |  |  |  |  | *Gymnodinium sp.3* |
|  |  |  |  |  | *Gymnodinium sp.6* |
|  |  |  |  |  | *Gymnodinium sp.4* |
|  |  |  |  | Gyrodinium | *Gyrodinium falcatum* |
|  |  |  |  |  | *Gyrodinium sp.1* |
|  |  |  | Ptychodiscaceae | Balechina | *Balechina coerulea* |
|  |  |  | Warnowiaceae | Warnowia | *Warnowia sp.* |
|  |  | Noctilucales | Noctilucaceae | Noctiluca | *Noctiluca scintillans* |
|  |  | Peridiniales | Oxytoxaceae | Oxytoxum | *Oxytoxum sp.3* |
|  |  |  |  |  | *Oxytoxum sp.2* |
|  |  |  |  |  | *Oxytoxum sp.1* |
|  |  |  |  |  | *Oxytoxum sp.4* |
|  |  |  |  |  | *Oxytoxum sp.5* |
|  |  |  |  | Schuettiella | *Schuettiella sp.1* |
|  |  |  | Peridiniaceae | Peridinium | *Peridinium sp.1* |
|  |  |  |  |  | *Peridinium quadridentatum* |
|  |  |  |  | Scrippsiella | *Scrippsiella sp.1* |
|  |  |  |  |  | *Scrippsiella sp.2* |
|  |  |  | Podolampadaceae | Podolampas | *Podolampas bipes* |
|  |  |  |  |  | *Podolampas palmipes* |
|  |  |  |  |  | *Podolampas spinifera* |
|  |  |  |  |  | *Podolampas elegans* |
|  |  |  |  |  | *Podolampas sp.* |
|  |  |  | Protoperidiniaceae | Diplopelta | *Diplopelta sp.* |
|  |  |  |  | Diplopsalis | *Diplopsalis sp.* |
|  |  |  |  | Diplopsalopsis | *Diplopsalopsis sp.* |
|  |  |  |  | Protoperidinium | *Protoperidinium sp.14* |
|  |  |  |  |  | *Protoperidinium divergens* |
|  |  |  |  |  | *Protoperidinium sp.21* |
|  |  |  |  |  | *Protoperidinium depressum* |
|  |  |  |  |  | *Protoperidinium sp.17* |
|  |  |  |  |  | *Protoperidinium sp.2* |
|  |  |  |  |  | *Protoperidinium sp.4* |
|  |  |  |  |  | *Protoperidinium elegans* |
|  |  |  |  |  | *Protoperidinium latispinum* |
|  |  |  |  |  | *Protoperidinium pallidum* |
|  |  |  |  |  | *Protoperidinium sp.20* |
|  |  |  |  |  | *Protoperidinium asymmetricum* |
|  |  |  |  |  | *Protoperidinium globulum* |
|  |  |  |  |  | *Protoperidinium conicum* |
|  |  |  |  |  | *Protoperidinium oceanicum* |
|  |  |  |  |  | *Protoperidinium sp.10* |
|  |  |  |  |  | *Protoperidinium sp.19* |
|  |  |  |  |  | *Protoperidinium sp.15* |
|  |  |  |  |  | *Protoperidinium sp.3* |
|  |  |  |  |  | *Protoperidinium diabolum* |
|  |  |  |  |  | *Protoperidinium abei* |
|  |  |  |  |  | *Protoperidinium sp.22* |
|  |  |  |  |  | *Protoperidinium sp.1* |
|  |  |  |  |  | *Protoperidinium leonis* |
|  |  |  |  |  | *Protoperidinium sp.18* |
|  |  |  |  |  | *Protoperidinium pentagonum* |
|  |  |  |  |  | *Protoperidinium sp.6* |
|  |  |  |  |  | *Protoperidinium sp.5* |
|  |  |  |  |  | *Protoperidinium sp.12* |
|  |  |  | **-** | Spiraulax | *Spiraulax sp.1* |
|  |  | Prorocentrales | Prorocentraceae | Prorocentrum | *Prorocentrum sp.1* |
|  |  |  |  |  | *Prorocentrum compressum* |
|  |  |  |  |  | *Prorocentrum mexicanum* |
|  |  |  |  |  | *Prorocentrum sp.2* |
|  |  |  |  |  | *Prorocentrum micans* |
|  |  |  |  |  | *Prorocentrum sp.3* |
|  |  |  |  |  | *Prorocentrum triestinum* |
|  |  |  |  |  | *Prorocentrum cordatum* |
|  |  | Pyrocystales | Pyrocystaceae | Pyrocystis | *Pyrocystis lunula* |
|  |  |  |  |  | *Pyrocystis sp.1* |
|  |  |  |  |  | *Pyrocystis noctiluca* |
|  |  | Thoracosphaerales | Thoracosphaeraceae | Goniodoma | *Goniodoma sp.1* |
|  |  |  |  |  | *Goniodoma polyedricum* |
|  |  |  |  |  | *Goniodoma sp.* |
|  |  |  |  |  | *Goniodoma sp.2* |
| Cyanobacteria | Cyanophyceae | Chroococcales | Microcystaceae | Gloeocapsa | *Gloeocapsa sp.1* |
|  |  | Nostocales | Nostocaceae | Richelia | *Richelia intracellularis* |
|  |  |  | Scytonemataceae | Scytonematopsis | *Scytonematopsis crustacea* |
|  |  | Oscillatoriales | Oscillatoriaceae | Oscillatoria | *Oscillatoria sp.1* |
|  |  |  |  |  | *Oscillatoria sp.2* |
|  |  |  |  |  | *Oscillatoria thiebautii* |
|  |  |  | Phormidiaceae | Trichodesmium | *Trichodesmium erythraeum* |
|  |  | Spirulinales | Spirulinaceae | Spirulina | *Spirulina sp.* |
|  |  |  |  |  | *Spirulina sp.1* |
|  |  | Synechococcales | Merismopediaceae | Merismopedia | *Merismopedia sp.* |
| Chlorophyta | Zygnematophyceae | Zygnematales | Desmidiaceae | Spondylosium | *Spondylosium sp.1* |
|  |  |  |  | Staurastrum | *Staurastrum sp.1* |
|  |  |  |  |  | *Staurastrum sp.2* |
|  | Chlorophyceae | Sphaeropleales | Neochloridaceae | Golenkinia | *Golenkinia radiata* |
| Euglenozoa | Euglenoidea | Euglenida | Phacaceae | Phacus | *Phacus sp.3* |
|  |  |  |  |  | *Phacus sp.1* |

| **Phylum** | **Class** | **Order** | **Family** | **Genus** | **Species Name** |
| --- | --- | --- | --- | --- | --- |
| **แพลงก์ตอนสัตว์** | | | | | |
| Arthropoda | - | - | - | - | Nauplius of crustacea |
|  | Branchiopoda | Ctenopoda | Sididae | Penilia | *Penilia sp.1* |
|  |  | Onychopoda | Podonidae | Evadne | *Evadne sp.* |
|  |  |  |  |  | *Evadne sp.1* |
|  | Hexanauplia | - | - | - | Cirripedia spp. |
|  |  |  |  |  | Copepoda spp. |
|  |  | Calanoida | Acartiidae | - | Acartiidae spp. |
|  |  |  |  | Acartia | *Acartia sp.* |
|  |  |  | Calanidae | - | *Calanidae spp.* |
|  |  |  |  |  | *Calanidae spp.1* |
|  |  |  |  | Canthocalanus | *Canthocalanus sp.* |
|  |  |  |  | Nannocalanus | *Nannocalanus sp.* |
|  |  |  |  | Undinula | *Undinula sp.* |
|  |  |  | Candaciidae | - | *Candaciidae spp.* |
|  |  |  |  | Candacia | *Candacia sp.* |
|  |  |  | Centropagidae | - | *Centropagidae spp.* |
|  |  |  |  | Centropages | *Centropages sp.1* |
|  |  |  |  |  | *Centropages sp.2* |
|  |  |  | Clausocalanidae | Clausocalanus | *Clausocalanus sp.* |
|  |  |  | Eucalanidae | - | Eucalanidae spp. |
|  |  |  |  | Eucalanus | *Eucalanus sp.* |
|  |  |  | Euchaetidae | - | Euchaetidae spp. |
|  |  |  | Paracalanidae | - | Paracalanidae spp. |
|  |  |  |  | Acrocalanus | *Acrocalanus sp.1* |
|  |  |  |  |  | *Acrocalanus sp.2* |
|  |  |  |  | Calocalanus | *Calocalanus sp.* |
|  |  |  |  | Paracalanus | *Paracalanus sp.1* |
|  |  |  |  |  | *Paracalanus sp.2* |
|  |  |  |  |  | *Paracalanus sp.3* |
|  |  |  | Phaennidae | Phaenna | *Phaenna sp.* |
|  |  |  | Pontellidae | - | Pontellidae spp. |
|  |  |  |  | Calanopia | *Calanopia sp.* |
|  |  |  |  | Labidocera | *Labidocera sp.* |
|  |  |  | Temoridae | - | Temoridae spp. |
|  |  |  |  | Temora | *Temora sp.* |
|  |  |  | Tortanidae | - | Tortanidae spp. |
|  |  |  |  | Tortanus | *Tortanus sp.* |
|  |  | Cyclopoida | - | - | Ergasilida spp. |
|  |  |  | Corycaeidae | Corycaeus | *Corycaeus sp.* |
|  |  |  | Oithonidae | Oithona | *Oithona sp.* |
|  |  |  |  |  | *Oithona sp.1* |
|  |  |  |  |  | *Oithona sp.2* |
|  |  |  |  |  | *Oithona sp.3* |
|  |  |  |  |  | *Oithona sp.4* |
|  |  |  |  |  | *Oithona sp.5* |
|  |  |  |  |  | *Oithona sp.6* |
|  |  |  | Oncaeidae | Oncaea | *Oncaea sp.* |
|  |  |  | Sapphirinidae | Copilia | *Copilia sp.* |
|  |  |  |  |  | *Copilia sp.1* |
|  |  |  |  | Sapphirina | *Sapphirina sp.* |
|  |  | Harpacticoida | - | - | Harpacticoida spp. |
|  |  |  | Ectinosomatidae | Microsetella | *Microsetella sp.* |
|  |  |  |  |  | *Microsetella sp.1* |
|  |  |  | Miraciidae | Macrosetella | *Macrosetella sp.* |
|  |  |  | Peltidiidae | Clytemnestra | *Clytemnestra sp.* |
|  |  |  | Tachidiidae | - | Tachidiidae spp. |
|  |  |  |  | Euterpina | *Euterpina sp.* |
|  |  | Siphonostomatoida | Cancerillidae | - | Cancerillidae spp. |
|  | Malacostraca | Amphipoda | - | - | Amphipoda spp. |
|  |  |  | Ampeliscidae | Ampelisca | *Ampelisca chinensis* |
|  |  |  | Amphilochidae | - | Amphilochidae spp. |
|  |  |  |  |  | Amphilochidae spp.1 |
|  |  |  | Caprellidae | - | Caprellidae spp. |
|  |  |  |  |  | Caprellidae spp.1 |
|  |  |  | Colomastigidae | - | Colomastigidae spp. |
|  |  |  | Dexaminidae | - | Dexaminidae spp. |
|  |  |  | Hyperiidae | - | Hyperiidae spp.1 |
|  |  |  |  |  | Hyperiidae spp.2 |
|  |  |  |  |  | Hyperiidae spp.3 |
|  |  |  |  |  | Hyperiidae spp.4 |
|  |  |  |  |  | Hyperiidae spp.5 |
|  |  |  | Lestrigonidae | Phronimopsis | *Phronimopsis sp.1* |
|  |  |  | Lycaeopsidae | - | Lycaeopsidae spp. |
|  |  |  |  |  | Lycaeopsidae spp.1 |
|  |  |  | Lysianassidae | - | Lysianassidae spp. |
|  |  |  | Melitidae | - | Melitidae spp.1 |
|  |  |  | Oxycephalidae | Rhabdosoma | *Rhabdosoma sp.* |
|  |  |  | Platyscelidae | - | Platyscelidae spp. |
|  |  |  |  |  | Platyscelidae spp.1 |
|  |  |  | Podoceridae | - | Podoceridae spp. |
|  |  |  | Pronoidae | - | Pronoidae spp. |
|  |  |  | Stenothoidae | - | Stenothoidae spp. |
|  |  | Cumacea | Bodotriidae | - | Bodotriidae spp. |
|  |  |  | Leuconidae | - | Leuconidae spp.1 |
|  |  | Decapoda | - | - | Brachyura spp. |
|  |  |  |  |  | Caridea larvae |
|  |  |  |  |  | Crab larvae |
|  |  |  |  |  | Crab Megalopa |
|  |  |  |  |  | Crab zoea |
|  |  |  |  |  | Protozoea |
|  |  |  |  |  | Shrimp larvae |
|  |  |  | Alpheidae | - | Alpheidae spp. |
|  |  |  | Callianassidae | - | Callianassidae spp. |
|  |  |  | Crangonidae | - | Crangonidae spp. |
|  |  |  | Diogenidae | - | Diogenidae spp.1 |
|  |  |  |  |  | Diogenidae spp.2 |
|  |  |  |  |  | Diogenidae spp.3 |
|  |  |  | Galatheidae | - | Galatheidae spp. |
|  |  |  | Hippolytidae | - | Hippolytidae spp. |
|  |  |  |  |  | Hippolytidae spp.1 |
|  |  |  | Laomediidae | - | Laomediidae spp. |
|  |  |  | Luciferidae | Lucifer | *Lucifer sp.* |
|  |  |  |  |  | *Lucifer sp.1* |
|  |  |  | Paguridae | - | Pagurid larvae |
|  |  |  |  |  | Paguridae spp. |
|  |  |  | Palaemonidae | - | Palaemonidae spp.1 |
|  |  |  |  |  | Palaemonidae spp.3 |
|  |  |  | Pandalidae | - | Pandalidae spp. |
|  |  |  | Parapaguridae | - | Parapaguridae spp. |
|  |  |  | Pasiphaeidae | Leptochela | *Leptochela sp.1* |
|  |  |  | Porcellanidae | - | Porcellanidae spp. |
|  |  |  | Scyllaridae | - | Phyllosoma larvae |
|  |  |  | Sergestidae | - | Sergestidae spp. |
|  |  |  |  | Acetes | *Acetes sp.* |
|  |  |  | Solenoceridae | - | Solenoceridae spp. |
|  |  |  | Stenopodidae | - | Stenopodidae spp. |
|  |  |  | Upogebiidae | - | Upogebiidae spp. |
|  |  | Euphausiacea | Euphausiidae | - | Euphausiidae spp. |
|  |  |  |  |  | Euphausiids larvae |
|  |  | Isopoda | - | - | Isopoda spp. |
|  |  |  | Cirolanidae | - | *Cirolanidae sp.1* |
|  |  |  | Gnathiidae | - | *Gnathiidae spp.1* |
|  |  | Mysida | - | - | Mysida spp. |
|  |  |  |  |  | Mysida spp.1 |
|  |  |  |  |  | Mysida spp.2 |
|  |  |  |  |  | Mysida spp.3 |
|  |  |  |  |  | Mysida spp.4 |
|  |  |  |  |  | Mysida spp.6 |
|  |  |  | Mysidae | - | Mysidae spp. |
|  |  |  |  | Anchialina | *Anchialina sp.* |
|  |  |  |  | Anisomysis | *Anisomysis sp.* |
|  |  |  |  | Haplostylus | *Haplostylus bengalensis* |
|  |  |  |  | Siriella | *Siriella sp.2* |
|  |  |  |  |  | Siriella sp.3 |
|  |  | Stomatopoda | - | - | Erichthus larvae |
|  |  |  | Squillidae | Alima | *Alima sp.* |
|  | Ostracoda | - | - | - | Ostracoda sp. |
|  |  | Halocyprida | Halocyprididae | Conchoecia | *Conchoecia sp.1* |
|  |  |  |  |  | *Conchoecia sp.2* |
|  |  |  |  | Euconchoecia | *Euconchoecia sp.1* |
|  |  | Myodocopida | Cypridinidae | - | Cypridinidae spp.1 |
|  |  |  |  |  | Cypridinidae spp.2 |
|  |  |  |  |  | Cypridinidae spp.5 |
|  |  |  |  |  | Cypridinidae spp.6 |
|  |  |  |  |  | Cypridinidae spp.7 |
|  |  | Podocopida | Cyprididae | Cypris | Cypris larvae |
| Cnidaria | Anthozoa | - | - | - | Anthozoa spp. |
|  | Hydrozoa | - | - | - | Hydrozoa spp. |
|  |  | Anthoathecata | - | - | *Anthoathecata spp.* |
|  |  |  | Bougainvilliidae | - | *Bougainvilliidae spp.1* |
|  |  |  |  |  | *Bougainvilliidae spp.3* |
|  |  |  |  |  | *Bougainvilliidae spp.4* |
|  |  |  | Bythotiaridae | - | *Bythotiaridae sp.1* |
|  |  |  |  | Bythotiara | *Bythotiara sp.1* |
|  |  |  | Corymorphidae | Corymorpha | *Corymorpha sp.1* |
|  |  |  |  |  | *Corymorpha sp.2* |
|  |  |  |  | Euphysa | *Euphysa sp.1* |
|  |  |  | Corynidae | - | *Corynidae spp.1* |
|  |  |  |  |  | *Corynidae spp.2* |
|  |  |  | Cytaeididae | - | *Cytaeididaespp.1* |
|  |  |  |  |  | *Cytaeididaespp.2* |
|  |  |  | Hydractiniidae | - | Hydractiniidae spp. |
|  |  |  | Niobiidae | Niobia | *Niobia spp.* |
|  |  |  | Oceaniidae | - | Oceaniidae spp. |
|  |  |  | Pandeidae | - | Pandeidae spp.1 |
|  |  |  |  |  | Pandeidae spp.2 |
|  |  |  |  |  | Pandeidae spp.4 |
|  |  |  | Porpitidae | - | Porpitidae spp. |
|  |  |  | Rathkeidae | - | Rathkeidae spp. |
|  |  |  | Tubulariidae | - | Tubulariidae spp.4 |
|  |  |  |  | Ectopleura | *Ectopleura sacculifera* |
|  |  |  |  | Hybocodon | *Hybocodon sp.1* |
|  |  | Leptothecata | - | - | Leptothecata spp. |
|  |  |  | Campanulariidae | Clytia | *Clytia sp.* |
|  |  |  |  | Obelia | *Obelia sp.* |
|  |  |  | Eirenidae | - | Eirenidae spp.1 |
|  |  |  |  |  | Eirenidae spp.2 |
|  |  |  |  |  | Eirenidae spp.3 |
|  |  |  |  |  | Eirenidae spp.4 |
|  |  |  |  | Eirene | *Eirene sp.1* |
|  |  |  |  |  | *Eirene sp.2* |
|  |  |  |  | Eutima | *Eutima sp.1* |
|  |  |  | Lovenellidae | - | Lovenellidae spp. |
|  |  |  | Mitrocomidae | - | Mitrocomidae spp. |
|  |  |  |  |  | Mitrocomidae spp.2 |
|  |  |  | Phialuciidae | - | Phialuciidae spp. |
|  |  |  | Plumulariidae | Dentitheca | *Dentitheca sp.1* |
|  |  |  | Tiarannidae | - | Tiarannidae spp.1 |
|  |  | Limnomedusae | Geryoniidae | Liriope | *Liriope sp.1* |
|  |  |  |  |  | *Liriope sp.2* |
|  |  | Narcomedusae | Cuninidae | - | Cuninidae spp.1 |
|  |  |  |  |  | Cuninidae spp.2 |
|  |  |  | Solmundaeginidae | Solmundella | *Solmundella sp.1* |
|  |  | Siphonophorae | - | - | Siphonophorae spp. |
|  |  |  | Abylidae | - | Abylidae spp. |
|  |  |  | Diphyidae | - | Diphyidae spp. |
|  |  | Trachymedusae | - | - | Trachymedusae spp. |
|  |  |  | Rhopalonematidae | - | Rhopalonematidae spp. |
|  |  |  |  |  | Rhopalonematidae spp.1 |
|  | Scyphozoa | Coronatae | Nausithoidae | Nausithoe | *Nausithoe sp.1* |
|  |  |  |  |  | Nausithoe sp.2 |
|  |  |  |  |  | Nausithoe sp.3 |
|  |  | Semaeostomeae | Pelagiidae | - | Ephyra larvae |
|  |  |  |  |  | Pelagiidae sp.1 |
| Mollusca | Bivalvia | - | - | - | Bivalvia spp. |
|  | Cephalopoda | - | - | - | Squid larvae |
|  | Gastropoda | - | - | - | Gastropod larvae |
|  |  | Littorinimorpha | Atlantidae | Atlanta | *Atlanta sp.* |
|  |  |  | Pterotracheidae | - | Pterotracheidae spp.1 |
|  |  | Pteropoda | Cavoliniidae | - | Cavoliniidae spp. |
|  |  |  |  |  | Cavoliniidae spp.1 |
|  |  |  |  |  | Cavoliniidae spp.2 |
|  |  |  |  |  | Diacria sp.1 |
|  |  |  |  |  | Diacria sp.2 |
|  |  |  |  | Cavolinia | *Cavolinia sp.2* |
|  |  |  | Clionidae | - | Clionidae spp. |
|  |  |  | Creseidae | Creseis | *Creseis acicula* |
|  |  |  |  |  | *Creseis virgula* |
|  |  |  | Desmopteridae | - | Desmopteridae spp.1 |
|  |  |  |  |  | Desmopterus sp.1 |
| Chordata | - | - | - | - | Fish Egg |
|  |  |  |  |  | Fish Larvae |
|  | Appendicularia | Copelata | Oikopleuridae | Oikopleura | *Oikopleura sp.* |
|  | Leptocardii | (blank) | Branchiostomatidae | - | Branchiostomatidae spp. |
|  |  |  | Branchiostomidae | Branchiostoma | *Branchiostoma sp.* |
|  | Thaliacea | - | - | - | Thaliaceaspp. |
|  |  | Doliolida | Doliolidae | Dolioletta | *Dolioletta sp.* |
|  |  |  |  |  | *Dolioletta sp.1* |
|  |  |  |  | Doliolum | *Doliolum sp.* |
|  |  |  |  |  | *Doliolum sp.1* |
|  |  | Salpida | Salpidae | - | Salpidae spp.1 |
|  |  |  |  | Brooksia | *Brooksia sp.* |
|  |  |  |  |  | *Brooksia sp.1* |
|  |  |  |  | Salpa | *Salpa sp.* |
|  |  |  |  |  | *Salpa sp.1* |
|  |  |  |  | Thalia | *Thalia sp.* |
|  |  |  |  |  | *Thalia sp.1* |
| Echinodermata | - | - | - | - | Echinoderm larvae |
|  |  |  |  |  | Ophiopluteus |
|  | Holothuroidea | Apodida | Synaptidae | Protankyra | *Protankyra sp.* |
| Chaetognatha | Sagittoidea | Aphragmophora | Sagittidae | - | Sagitta sp. |
| Annelida | Polychaeta | - | - | - | Polychaete |
| Platyhelminthes | Turbellaria | - | - | - | Turbellaria spp.\* |
|  |  |  |  |  | Turbellaria spp.1\* |
| Ciliophora | Oligotrichea | Choreotrichida | Codonellidae | Tintinnopsis | *Tintinnopsis directa* |
|  |  |  |  |  | *Tintinnopsis gracilis* |
|  |  |  |  |  | *Tintinnopsis mortensenii* |
|  |  |  |  |  | *Tintinnopsis sp.1* |
|  |  |  |  |  | *Tintinnopsis sp.3* |
|  |  |  |  |  | *Tintinnopsis subacuta* |
|  |  |  |  |  | *Tintinnopsis tocantinensis* |
|  |  |  | Codonellopsidae | Codonellopsis | *Codonellopsis ostenfeldi* |
|  |  |  |  |  | *Codonellopsis sp.1* |
|  |  |  |  |  | *Codonellopsis sp.2* |
|  |  |  | Rhabdonellidae | Rhabdonella | *Rhabdonella sp.1* |
|  |  |  |  |  | *Rhabdonella sp.2* |
|  |  |  |  |  | *Rhabdonella sp.3* |
|  |  |  |  |  | *Rhabdonella sp.5* |
|  |  |  | Tintinnidae | Eutintinnus | *Eutintinnus sp.* |
|  |  |  | Tintinnidiidae | Leprotintinnus | *Leprotintinnus sp.* |
| Ctenophora | - | - | - | - | Comb jellies |
|  | Nuda | Beroida | Beroidae | - | Beroidae spp. |
|  | Tentaculata | Cydippida | Pleurobrachiidae | - | Pleurobrachiidae spp. |
| Bryozoa | Gymnolaemata | Cheilostomata | Electridae | Electra | *Electra sp.* |
| Nemertea | - | - | - | - | Pilidium larvae |
| Brachiopoda | Lingulata | Lingulida | Lingulidae | Lingula | Lingula larvae |
|  |  |  |  |  | Lingula sp. |
| Rotifera | Eurotatoria | Ploima | Lecanidae | Lecane | *Lecane sp.* |
| Foraminifera | - | - | - | - | Foraminifera spp. |
| Sipuncula | - | - | - | - | Sipuncula larvae |