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Effects of sea ice decay and nutrient depletion on taxonomic composition and trophic structure in high-Arctic protist and metazoan communities

Hauke Flores, Carmen David, Julia Ehrlich, Kristin Hardge, Doreen Kohlbach, Benjamin A. Lange, Barbara Niehoff, Eva-Maria Nöthig, Ilka Peeken & Katja Metfies

ESM1. Protist taxa as identified by Operational Taxonomic Units (OTU), and corresponding trophic groups (au=autotroph; ht=heterotroph; mx=micotroph; nc=not classified)

Taxon	Troph. Group
Eukaryota;__	nc
Eukaryota;__Alveolata;__	nc
Eukaryota;__Alveolata;__Ciliophora;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Oligohymenophorea;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Oligohymenophorea;__Homalogastra	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Oligohymenophorea;__Paramecium	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Oligohymenophorea;__Porpostoma	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Oligohymenophorea;__Stokesia	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Phyllopharyngea;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Phyllopharyngea;__Aporthotrochilia	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Plagiopylea;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Conthreep;__Prostomatea;__Cryptocaryon	ht
Eukaryota;__Alveolata;__Ciliophora;__Heterotrichea;__Peritromus;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__Haptoria;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__Haptoria;__Didinium	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__Haptoria;__Epiphyllum	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__Haptoria;__Loxophyllum	ht
Eukaryota;__Alveolata;__Ciliophora;__Litostomatea;__Haptoria;__Phialina	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__Codonella	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__Metacylis	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__Salpingella	ht

Taxon	Troph. Group
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__Strobilidium	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Choreotrichia;__uncultured	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Hypotrichia;__Anteholosticha	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Hypotrichia;__Holosticha	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Hypotrichia;__Oxytricha	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Oligotrichia;__	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Oligotrichia;__Laboea	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Oligotrichia;__Pseudotontonia	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Oligotrichia;__Strombidium	ht
Eukaryota;__Alveolata;__Ciliophora;__Spirotrichea;__Oligotrichia;__uncultured	ht
Eukaryota;__Alveolata;__Dinoflagellata;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__BBSRP1;__;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__B28;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__D244;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Dinophysiales;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Chytriodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Cochlodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__FV18-2D9	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Gyrodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Karlodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Lepidodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Pelagodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Spiniferodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Symbiodinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Gymnodiniphyceidae;__Woloszynskia	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Halostylodinium;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__NPK60-44;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__Alexandrium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__Glenodiniopsis	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__Neoceratium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__Protoperidinium	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Peridiniphyceidae;__Scrippsiella	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__Prorocentrales;__Exuviaella	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__SCM16C67;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Dinophyceae;__SL163A10;__	mx
Eukaryota;__Alveolata;__Dinoflagellata;__Haplozoon;__;__	mx
Eukaryota;__Alveolata;__H67;__;__;__	nc
Eukaryota;__Alveolata;__OLI11255;__;__;__	nc

Taxon	Troph. Group
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__Amoebophrya;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__Duboscquella;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__SyndinialesGroup	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__SyndinialesGroupI;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__SyndinialesGroupII;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__SyndinialesGroupIII;__	ht
Eukaryota;__Alveolata;__Protalveolata;__Syndiniales;__SyndinialesGroupV;__	ht
Eukaryota;__Alveolata;__SCM37C52;__;__;__	nc
Eukaryota;__Ancyromonadida;__Ancyromonas;__;__;__	nc
Eukaryota;__Apusomonadidae;__Amastigomonas;__;__;__	nc
Eukaryota;__Apusomonadidae;__IncertaeSedis;__;__;__	nc
Eukaryota;__Centrohelida;__	nc
Eukaryota;__Centrohelida;__Acanthocystidae;__Pterocystis;__;__	nc
Eukaryota;__Chloroplastida;__Chlorophyceae;__	mx
Eukaryota;__Chloroplastida;__Chlorophyceae;__Carteria;__;__	mx
Eukaryota;__Chloroplastida;__Chlorophyceae;__Chloromonas;__;__	mx
Eukaryota;__Chloroplastida;__Chlorophyceae;__Fasciculochloris;__;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__;__;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__Bathycoccus;__;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__Crustomastix;__;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__DSGM-81;__;__	mx
Eukaryota;__Chloroplastida;__Mamiellophyceae;__Micromonas;__;__	mx
Eukaryota;__Chloroplastida;__Prasinophytae;__	mx
Eukaryota;__Chloroplastida;__Prasinophytae;__Pterosperma;__;__	mx
Eukaryota;__Chloroplastida;__Prasinophytae;__Pyramimonas;__;__	mx
Eukaryota;__Chloroplastida;__Trebouxiophyceae;__AN1-3;__;__	mx
Eukaryota;__Chloroplastida;__Trebouxiophyceae;__Chlorella;__;__	mx
Eukaryota;__Chloroplastida;__Trebouxiophyceae;__Radiofilum;__;__	mx
Eukaryota;__Chloroplastida;__uncultured;__;__;__	mx
Eukaryota;__Co	nc
Eukaryota;__Conosa;__Protosteliida;__Protostelium;__;__	nc
Eukaryota;__Cryptophyceae;__Cryptomonadales;__	mx
Eukaryota;__Cryptophyceae;__Cryptomonadales;__Cryptomonas;__;__	mx
Eukaryota;__Cryptophyceae;__Cryptomonadales;__FV18-2G7;__;__	mx
Eukaryota;__Cryptophyceae;__Cryptomonadales;__Geminigera;__;__	mx
Eukaryota;__Cryptophyceae;__Cryptomonadales;__Teleaulax;__;__	mx
Eukaryota;__Cryptophyceae;__Goniomonas;__;__;__	mx
Eukaryota;__Discosea;__Flabellinia;__Vannellida;__Protosteliopsis;__	nc
Eukaryota;__Haptophyta;__Prymnesiophyceae;__	au

Taxon	Troph. Group
Eukaryota;__Haptophyta;__Prymnesiophyceae;__Phaeocystis;__;__	au
Eukaryota;__Haptophyta;__Prymnesiophyceae;__Prymnesiales;__	au
Eukaryota;__Haptophyta;__Prymnesiophyceae;__Prymnesiales;__Imantonia;__	au
Eukaryota;__Holozoa;__	nc
Eukaryota;__Holozoa;__Choanomonada;__Acanthoecida;__	nc
Eukaryota;__Holozoa;__Choanomonada;__Acanthoecida;__Acanthocorbis;__	nc
Eukaryota;__Holozoa;__Choanomonada;__Acanthoecida;__Diaphanoeca;__	nc
Eukaryota;__Holozoa;__Choanomonada;__Acanthoecida;__Stephanoeca;__	nc
Eukaryota;__Holozoa;__Choanomonada;__Craspedida;__Lagenoeca;__	nc
Eukaryota;__Lobosa;__Tubulinea;__Euamoebida;__Hartmannella;__	nc
Eukaryota;__Rhizaria;__Cercozoa;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Endomyxa;__Phytomyxea;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Glissomonadida;__Heteromita;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__NovelClade2;__;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__NovelClade4;__;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__NovelCladeGran-3;__;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__7-5.4;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Chlorarachniophyta;__BC52	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Chlorarachniophyta;__NOR26	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Marimonadida;__Auranticordis	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Marimonadida;__NAMAHO-15	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__p15D09;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Thaumatomonadida;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Thaumatomonadida;__Allas	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Thaumatomonadida;__D6	mx
Eukaryota;__Rhizaria;__Cercozoa;__Silicofilosea;__Thaumatomonadida;__Gyromitus	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__Cryomonadida;__Cryothecomonas	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__Ebriacea;__Ebria	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__NIF-3A7;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__NOR26;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__uncultured;__	mx
Eukaryota;__Rhizaria;__Cercozoa;__Thecofilosea;__WHOI-LI1-14;__	mx
Eukaryota;__Rhizaria;__Radiolaria;__	ht
Eukaryota;__Rhizaria;__Radiolaria;__Acantharia;__AcanthareaGroupI;__	ht
Eukaryota;__Rhizaria;__Radiolaria;__Acantharia;__Chaunocanthida;__	ht
Eukaryota;__Rhizaria;__Radiolaria;__Polycystinea;__Nassellaria;__Pseudocubus	ht
Eukaryota;__Rhizaria;__Radiolaria;__Polycystinea;__Spumellaria;__	ht
Eukaryota;__Rhizaria;__Radiolaria;__RADC;__;__	ht

Taxon	Troph. Group
Eukaryota;__Stramenopiles;__	nc
Eukaryota;__Stramenopiles;__;__;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__Cafeteriidae;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__Cafeteriidae;__BCI5F15RM3E05;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__Cafeteriidae;__Cafeteria;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__Cafeteriidae;__Symbiomonas;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__LG08-10;__;__	nc
Eukaryota;__Stramenopiles;__Bicosoecida;__Siluniidae;__Caecitellus;__	nc
Eukaryota;__Stramenopiles;__Bolidomonas;__;__;__	nc
Eukaryota;__Stramenopiles;__Chrysophyceae;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__CCMP1899;__;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__Chromulinales;__Spumella;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__CladeC;__;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__LG01-09;__;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__Ochromonadales;__Epipyxis;__	au
Eukaryota;__Stramenopiles;__Chrysophyceae;__Ochromonadales;__Paraphysomonas;__	au
Eukaryota;__Stramenopiles;__Diatomea;__	au
Eukaryota;__Stramenopiles;__Diatomea;__3b-F4;__;__	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Amphora	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__CCMP2297	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Cy	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Haslea	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Navicula	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Nitzschia	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Pinnularia	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Bacillariophyceae;__Sellaphora	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Mediophyceae;__	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Mediophyceae;__Attheya	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Mediophyceae;__Chaetoceros	au
Eukaryota;__Stramenopiles;__Diatomea;__Bacillariophytina;__Mediophyceae;__Porosira	au
Eukaryota;__Stramenopiles;__Diatomea;__Coccinodiscophytina;__Coccinodiscids;__Actinocyclus	au
Eukaryota;__Stramenopiles;__Diatomea;__Coccinodiscophytina;__Fragilariales;__	au
Eukaryota;__Stramenopiles;__Diatomea;__Coccinodiscophytina;__Melosirids;__Melosira	au
Eukaryota;__Stramenopiles;__Diatomea;__Coccinodiscophytina;__Rhizosolenids;__Rhizosolenia	au
Eukaryota;__Stramenopiles;__Diatomea;__ME-Euk-FW10;__;__	au
Eukaryota;__Stramenopiles;__Dictyochophyceae;__	nc
Eukaryota;__Stramenopiles;__Dictyochophyceae;__Dictyochales;__Dictyocha;__	nc
Eukaryota;__Stramenopiles;__Dictyochophyceae;__NIF-1D10;__;__	nc
Eukaryota;__Stramenopiles;__Dictyochophyceae;__Pedinellales;__	nc
Eukaryota;__Stramenopiles;__Dictyochophyceae;__Pedinellales;__;__	nc
Eukaryota;__Stramenopiles;__Dictyochophyceae;__Pedinellales;__Pteridomonas;__	nc

Taxon	Troph. Group
Eukaryota;__Stramenopiles;__Dictyochophyceae;__Verrucophora;__;__	nc
Eukaryota;__Stramenopiles;__Labyrinthulomycetes;__	nc
Eukaryota;__Stramenopiles;__Labyrinthulomycetes;__D2P04F01;__;__	nc
Eukaryota;__Stramenopiles;__Labyrinthulomycetes;__D52;__;__	nc
Eukaryota;__Stramenopiles;__Labyrinthulomycetes;__TAGIRI-15;__;__	nc
Eukaryota;__Stramenopiles;__Labyrinthulomycetes;__Thraustochytriaceae;__AB3F14RJ3E10;__	nc
Eukaryota;__Stramenopiles;__MAST-	ht
Eukaryota;__Stramenopiles;__MAST-1;__MAST-1A;__;__	ht
Eukaryota;__Stramenopiles;__MAST-1;__MAST-1B;__;__	ht
Eukaryota;__Stramenopiles;__MAST-1;__MAST-1C;__;__	ht
Eukaryota;__Stramenopiles;__MAST-2;__;__;__	ht
Eukaryota;__Stramenopiles;__MAST-3;__;__;__	ht
Eukaryota;__Stramenopiles;__MAST-7;__;__;__	ht
Eukaryota;__Stramenopiles;__MAST-8;__;__;__	ht
Eukaryota;__Stramenopiles;__MAST-9;__;__;__	ht
Eukaryota;__Stramenopiles;__Pelagophyceae;__	nc
Eukaryota;__Stramenopiles;__Pelagophyceae;__Pelagomonadales;__Pelagomonas;__	nc
Eukaryota;__Stramenopiles;__Pelagophyceae;__Sarcinochrysidales;__SS1-E01-69;__	nc
Eukaryota;__Stramenopiles;__Xanthophyceae;__Tribonematales;__	nc
Eukaryota;__Telonema;__IncertaeSedis;__;__;__	nc