

# Cawthron Institute Culture Collection of Micro-algae (CICCM) Catalogue of strains: February 2008 *Website edition*

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Diatoms



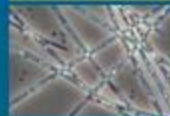
Dinoflagellates



Flagellates



Cyanobacteria



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### ***Important notes:***

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- 1. Not all strains may be available at any particular time. Cawthron Institute reserves the right to exercise its discretion not to provide strains when requested.*
- 2. Cawthron Institute requires that a Biological Material Agreement, outlining terms and conditions of supply, is signed by all recipients and returned to Cawthron before any strain is dispatched.*
- 3. Strains originating from outside New Zealand, while listed, will not be passed on except under special circumstances. We will happily try to help you make contact with the original source.*
- 4. Some strains are held only in liquid nitrogen (cryopreserved), some are both live in liquid media and frozen in cryobank; please refer to 'Comments' column.*

<b>Class/Name of Algae</b>	<b>Cawthron code number</b>	<b>Isolator</b>	<b>Site of Isolation and/or source</b>	<b>Original strain designation</b>	<b>Culture medium</b>	<b>Comments</b>
<b>Bacillariophyceae (Diatoms)</b>						
<i>Paralia marina</i>	CAWB38	L. Rhodes	Croisilles Harbour NZ		F/2	
<i>Pseudo-nitzschia americana</i>	CAWB80	L. Rhodes	Opihi NZ	Opihi 2	F/2	
<i>Pseudo-nitzschia americana</i>	CAWB81	L. Rhodes	Bowentown NZ	Bowentown 12	F/2	
<i>Pseudo-nitzschia australis</i>	CAWB95	L. Rhodes	Gisborne Hrb NZ		F/2	
<i>Pseudo-nitzschia delicatissima</i>	CAWB86	L. Rhodes	Great Barrier Is. Port Fitzroy NZ	Strain #2	F/2	
<i>Pseudo-nitzschia fraudulenta</i>	CAWB94	L. Rhodes	Pania Reef, Hawke's Bay NZ	Strain 3	F/2	
<i>Pseudo-nitzschia heimii</i>	CAWB93	L. Rhodes	Tapeka NZ	Tapeka 12	F/2	
<i>Pseudo-nitzschia pungens</i>	CAWB84	L. Rhodes	Nydia Bay NZ	Strain 9	F/2	
<i>Pseudo-nitzschia pungens</i>	CAWB96	L. Rhodes	Gisborne Hrb. NZ	Strain 20	F/2	
<i>Pseudo-nitzschia pungens</i>	CAWB97	L. Rhodes	Hallam Cove Marl. Snds. NZ		F/2	

Class/Name of Algae	Cawthron code number	Isolator	Site of Isolation and/or source	Original strain designation	Culture media	Comments
<b>Dinophyceae</b> (Dinoflagellates)						
<i>Akashiwo sanguinea</i> (Syn: <i>Gymnodinium sanguineum</i> )	CAWD01	L. Rhodes	Marlborough Sounds NZ		50% GP	
<i>Alexandrium catenella</i>	CAWD44	L. MacKenzie	Tauranga NZ	Strain #2	GP	
<i>Alexandrium catenella</i>	CAWD45	L. MacKenzie	Tauranga NZ	Strain #18	GP	
<i>Alexandrium catenella</i>	CAWD46	L. MacKenzie	Tauranga NZ	Strain #20	GP	
<i>Alexandrium catenella</i>	CAWD47	L. MacKenzie	Tauranga NZ	Strain #22	GP	
<i>Alexandrium catenella</i>	CAWD49	L. MacKenzie	Tekaha NZ	Strain #3	GP	
<i>Alexandrium catenella</i>	CAWD50	L. MacKenzie	Tekaha NZ	Strain #11	GP	
<i>Alexandrium concavum</i>	CAWD51	L. MacKenzie	Tapeka NZ		L1	
<i>Alexandrium concavum</i>	CAWD52	L. MacKenzie	Coromandel NZ	Strain #5	L1	
<i>Alexandrium fraterculus</i>	CAWD97	L. MacKenzie	Coromandel NZ		L1	
<i>Alexandrium margalefii</i>	CAWD10	L. MacKenzie	Bream Bay NZ		GP	
<i>Alexandrium minutum A</i>	CAWD11	L. MacKenzie	Anakoha Bay NZ		GP	
<i>Alexandrium minutum B</i>	CAWD12	L. MacKenzie	Anakoha Bay NZ		GP	
<i>Alexandrium minutum</i>	CAWD13	L. MacKenzie	Croisilles Harbour NZ		GP	
<i>Alexandrium ostenfeldii</i>	CAWD16	L. MacKenzie	Timaru NZ		GP	
<i>Alexandrium ostenfeldii</i>	CAWD135	L. MacKenzie	Big Glory Bay NZ	Strain BGB I	GP	
<i>Alexandrium ostenfeldii</i>	CAWD136	L. MacKenzie	Big Glory Bay NZ	Strain BGB II	GP	
<i>Alexandrium pseudogonyaulax</i>	CAWD54	L. MacKenzie	Tamaki Strait NZ		L1	
<i>Alexandrium pseudogonyaulax</i>	CAWD138	K. Ayers	Kerikeri NZ		L1	
<i>Alexandrium tamarense</i>	CAWD20	I. Adams	<b>Univ.of Copenhagen</b>	Plymouth 173 (K 0049)	GP	
<i>Alexandrium tamarense</i>	CAWD121	L. MacKenzie	Marsden Point NZ		GP	

**Dinophyceae cont.**

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<i>Amphidinium carterae</i>	CAWD22	L. Rhodes	Wellington NZ	Plymouth450(CS-212)	-----	Cryo only
<i>Amphidinium carterae</i>	CAWD23	L. Rhodes	Marlborough NZ		-----	Cryo only
<i>Amphidinium carterae</i>	CAWD24		<b>CSIRO Australia</b>		-----	Cryo only
<i>Amphidinium carterae</i>	CAWD57	L. Rhodes	Kauauora NZ		GP	Live + cryo
<i>Amphidinium cf massartii</i>	CAWD132	L. Rhodes	Whangaroa Hrb NZ		L 1	
<i>Amphidinium operculatum</i>	CAWD56	L. Rhodes	Parengarenga NZ		GP	
<i>Amphidinium trulla</i>	CAWD68	W. Gibbs	Rangaunu NZ	GP		Live + cryo
<i>Coolia monotis</i>	CAWD39	L. Rhodes	Ninety Mile Beach NZ	GP		
<i>Coolia monotis</i>	CAWD60	I.Bravo	<b>Ria de Vigo, Spain</b>	CCMP304	GP	
<i>Coolia monotis</i>	CAWD77	L. Rhodes	Rangiputa NZ	GP		
<i>Coolia monotis</i>	CAWD98	L. Rhodes	Glenhaven NZ	F/2		
<i>Coolia monotis</i>	CAWD151	L. Rhodes	<b>Cook Is. Rarotonga</b>	F/2		
<i>Gonyaulax cf elegans</i>	CAWD143	J.Adamson	Wilson's Bay NZ	50%GP		
<i>Gonyaulax hyalina</i>	CAWD100	L.MacKenzie	Tasman Bay NZ	50%GP		
<i>Gonyaulax cf spinifera</i>	CAWD144	J.Adamson	Wilson's Bay NZ	L1		
<i>Gonyaulax sp.</i>	CAWD141	L.Rhodes	Wilson's Bay NZ	F/2		

**Dinophyceae cont.**

<b>Name of Algae</b>	<b>Cawthron code number</b>	<b>Isolator</b>	<b>Site of isolation and/or source</b>	<b>Original strain designation</b>	<b>Culture media</b>	<b>Comments</b>
<i>Gymnodinium aureolum</i>	CAWD59	A. Haywood	Leigh NZ		50% GP	
<i>Gymnodinium aureolum</i>	CAWD87	A. Haywood	Coromandel NZ		50% GP	
<i>Gymnodinium aureolum</i>	CAWD116	J. Adamson	Melville Cove NZ		50% GP	
<i>Gymnodinium catenatum</i>	CAWD101	L. MacKenzie	Kaitaia spat NZ	Gc-KSC-1	50% GP	
<i>Gymnodinium catenatum</i>	CAWD102	L. MacKenzie	Kaitaia spat NZ	Gc-KSC-2	50% GP/L1	
<i>Gymnodinium catenatum</i>	CAWD105	L. MacKenzie	Manganui Bluff NZ	Gc-MBC-2	50% GP	
<i>Gymnodinium catenatum</i>	CAWD108	L. MacKenzie	Manganui Bluff NZ	Gc-MBC-6	50% GP	
<i>Gymnodinium catenatum</i>	CAWD109	L. MacKenzie	Manganui Bluff NZ	Gc-MBC-9	L 1	
<i>Gymnodinium catenatum</i>	CAWD125	L. MacKenzie	Huia Bank, Man. Hrb NZ	HB#1	GP	
<i>Gymnodinium catenatum</i>	CAWD126	L. MacKenzie	Huia Bank, Man. Hrb NZ	HB#6	GP	
<i>Gymnodinium chlorophorum</i>	CAWD62	L. MacKenzie	Ruakaka Bay NZ		50% GP	
<i>Gymnodinium impudicum</i>	CAWD03	A. Haywood	Kawau Is. NZ		50% GP	
<i>Gymnodinium cf impudicum</i>	CAWD139	J. Adamson	Waimungu Pt. NZ	C09	L 1	
<i>Gymnodinium cf impudicum</i>	CAWD140	J. Adamson	Wilson's Bay NZ	C29	50% GP	
<i>Gymnodinium instriatum</i>	CAWD137	L Rhodes	East Bay NZ		GP	
<i>Gymnodinium simplex</i>	CAWD86	A. Haywood	Tauranga. NZ		50% GP	
<i>Gymnodinium sp.</i>	CAWD71	L Rhodes	Hauraki Gulf NZ		50% GP	
<i>Heterocapsa illdefina</i>	CAWD124	L. MacKenzie	Pukehina Bay NZ		GP	
<i>Heterocapsa triquetra</i>	CAWD36	L. Rhodes	Akaroa NZ		GP	
<i>Heterocapsa sp.</i>	CAWD88	A. Haywood	Kerikeri NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD80	L. MacKenzie	Fouveau Strait NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD81	L. MacKenzie	Fouveau Strait NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD92	A. Haywood	Hawkes Bay NZ		50% GP	

**Dinophyceae cont.**

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<i>Karenia brevis</i> (Syn: <i>Gymnodinium breve</i> )	CAWD04		<b>Florida, USA</b>	Wilson strain	50% GP	
<i>Karenia brevis</i> (Syn: <i>Gymnodinium breve</i> )	CAWD06		<b>Rhode Is. USA</b>	Wilson strain	50% GP	
<i>Karenia brevis</i> (Syn: <i>Gymnodinium breve</i> )	CAWD08		<b>Rhode Is. USA</b>	Wilson strain	50% GP	
<i>Karenia brevis</i> (Syn: <i>Gymnodinium breve</i> )	CAWD122		<b>Florida, USA</b>	EPA-JR strain	L 1	
<i>Karenia brevisulcata</i> (Syn: <i>Gymnodinium brevisulcatum</i> )	CAWD82	L. MacKenzie	Wgtn. Harbour NZ		50% GP	
<i>Karenia mikimotoi</i> (Syn: <i>Gymnodinium mikimotoi</i> )	CAWD05	T. Ishimaru	<b>Kushimoto, Japan</b>	Tokyo, Uni. of Fisheries	50% GP	
<i>Karenia mikimotoi</i> (Syn: <i>Gymnodinium mikimotoi</i> )	CAWD63	A. Haywood	Waimangu NZ		50% GP	
<i>Karenia mikimotoi</i> (Syn: <i>Gymnodinium mikimotoi</i> )	CAWD117	J. Adamson	East Bay, Marl. Snds NZ		50% GP	
<i>Karenia mikimotoi</i> (Syn: <i>Gymnodinium mikimotoi</i> )	CAWD133	J. Adamson	Kennedy Bay, NZ		50% GP	
<i>Karenia mikimotoi</i> (Syn: <i>Gymnodinium mikimotoi</i> )	CAWD134	J. Adamson	Whangaporoa, NZ		50% GP	
<i>Karenia papilionacea</i> (Syn: <i>Gymnodinium papilionaceum</i> )	CAWD91	A. Haywood	Hawkes Bay NZ		50% GP	
<i>Karenia selliformis</i> (Syn: <i>Gymnodinium selliforme</i> )	CAWD79	L. MacKenzie	Fouveau Strait NZ		50% GP	
<i>Karenia umbella</i>	CAWD65	L. MacKenzie	Tasman Bay NZ		50% GP	
<i>Karenia umbella</i>	CAWD131	M. de Salas	Port Nelson NZ		50% GP	
<i>Karlodinium veneficum</i> (Syn: <i>Karlodinium micrum</i> )	CAWD83	A. Haywood	Whangakoko NZ		50% GP	
<i>Karlodinium veneficum</i> (Syn: <i>Karlodinium micrum</i> )	CAWD84	A. Haywood	Kawau Is. NZ		50% GP	

**Dinophyceae cont.**

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<i>Karlodinium veneficum</i> (Syn: <i>Karlodinium micrum</i> )	CAWD93	L.MacKenzie	Ponui Is. NZ		50% GP	
<i>Ostreopsis siamensis</i>	CAWD75	L. Rhodes	Rangiputa NZ		F/2	
<i>Ostreopsis siamensis</i>	CAWD96	L. Rhodes	Kerikeri NZ		F/2, L1	
<i>Ostreopsis siamensis</i>	CAWD147	L. Rhodes	Mahinepua NZ		F/2	
<i>Ostreopsis sp.</i>	CAWD150	L. Rhodes	<b>Cook Is.-Rarotonga</b>		F/2	
<i>Prorocentrum balticum</i>	CAWD38	L. MacKenzie	Taharoa NZ		GP	
<i>Prorocentrum compressum</i>	CAWD30	L. MacKenzie	Taharoa NZ		F/2	
<i>Prorocentrum compressum</i>	CAWD31	L. Rhodes	Ninety Mile Beach NZ		L 1	
<i>Prorocentrum gracile</i>	CAWD120	J. Adamson	Wedge Point NZ		GP	
<i>Prorocentrum gracile</i>	CAWD142	L. Rhodes	Wilson's Bay NZ		50% GP	
<i>Prorocentrum lima</i>	CAWD32		<b>Spain /NEPCC</b>	Spanish strain	F/2	
<i>Prorocentrum lima</i>	CAWD33	L. Rhodes	Rangaunu NZ		F/2	
<i>Prorocentrum lima</i>	CAWD69	L. Rhodes	Rangiputa NZ	Strain 1	F/2	
<i>Prorocentrum lima</i>	CAWD94	L. Rhodes	Rangiputa NZ	Strain 2	F/2	
<i>Prorocentrum lima</i>	CAWD70	L. Rhodes	Whatawhiwhi NZ		L1	
<i>Prorocentrum lima</i>	CAWD95	L. Rhodes	Croisilles Harbour NZ		F/2	
<i>Prorocentrum micans</i>	CAWD34	L. Rhodes	Marlb.Sounds NZ		GP	
<i>Prorocentrum cf rathymum</i>	CAWD146	L. Rhodes	The Bluff NZ		L1	
<i>Protoceratium reticulatum</i>	CAWD40	J. Adamson	Wedge Pt. NZ		GP	
<i>Protoceratium reticulatum</i>	CAWD99	M. de Salas	<b>Derwent Estuary</b>	Australia	GP	
<i>Protoceratium reticulatum</i>	CAWD127	L. Rhodes	Marlb. Snds. NZ		GP	
<i>Protoceratium reticulatum</i>	CAWD129	L. MacKenzie	Westport NZ	Strain WP1	GP	
<i>Protoceratium reticulatum</i>	CAWD130	L. MacKenzie	Westport NZ	Strain WP2	GP	
<i>Scrippsiella sp.</i>	CAWD67	M. Atkinson	Hauraki Gulf NZ		GP	
<i>Takayama helix</i>	CAWD128	L. MacKenzie	Tasman Bay NZ		50% GP	
<i>Takayama tasmanica</i>	CAWD115	J. Adamson	Glenhaven NZ		50% GP	
<i>Togula jolla</i>	CAWD41	L. Rhodes	Awaroa NZ		L1	
<i>Togula jolla</i>	CAWD58	L. Rhodes	Napier NZ		L1	

Class/Name of Algae	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments
<b>Haptophyceae</b> <b>=Prymnesiophyceae</b>						
<i>Chrysochromulina apheles</i>	CAWP05	L. Rhodes	Pakiri NZ		GP	
<i>Chrysochromulina camella</i>	CAWP16	L. Rhodes	Ruakaka Bay NZ		GP	
<i>Chrysochromulina camella</i>	CAWP28	L. Rhodes	Coromandel NZ		GP	
<i>Chrysochromulina ericina</i>	CAWP01	B. Burke	HaurakiGulf NZ		GP	
<i>Chrysochromulina ericina</i>	CAWP31	L. Rhodes	Coromandel NZ		GP	
<i>Chrysochromulina hirta</i>	CAWP02	L. Rhodes	Ninety Mile Beach NZ		GP	
<i>Chrysochromulina hirta</i>	CAWP02	L. Rhodes	Ninety Mile Beach NZ		GP	
<i>Chrysochromulina quadrikonta</i>	CAWP38	L. Rhodes	Te Tii NZ		GP	
<i>Chrysochromulina simplex</i>	CAWP03	L. Rhodes	Hauraki Gulf NZ		----	Cryo only
<i>Chrysochromulina simplex</i>	CAWP20	Othman Bojo	Blueskin Bay NZ		GP	
<i>Emiliana huxleyi</i>	CAWP06	L. Rhodes	Big Glory Bay NZ		F/2	
<i>Imantonia sp</i>	CAWP23	Othman Bojo	Blueskin Bay NZ		F/2	
<i>Pavlomulina sp</i>	CAWP21	Othman Bojo	Tapeka NZ		F/2	
<i>Phaeocystis globosa</i>	CAWP26	Othman Bojo	Southland Current Otago NZ	strain No. 16	F/2	
<i>Phaeocystis globosa</i>	CAWP30	L. Rhodes	Coromandel NZ	strain No. 23	F/2	
<i>Phaeocystis globosa</i>	CAWP32	Othman Bojo	Otago Coast NZ	strain No. 9	F/2	
<i>Phaeocystis globosa</i>	CAWP34	Othman Bojo	South Current NZ	strain No. 12	F/2	
<i>Phaeocystis globosa</i>	CAWP35	Othman Bojo	Pelorous Sound NZ	strain No. 20	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP24	Othman Bojo	Tapeka NZ	strain No. 7	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP25	Othman Bojo	Mistake Point NZ	strain No. 8	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP37	Othman Bojo	East Bay NZ	strain No. 10	F/2	
<i>Prymnesium parvum</i>	CAWP10	T. Christensen	<b>Univ. of Copenhagen</b>	K 0081	GP	Live + cryo
<i>Prymnesium patelliferum</i>	CAWP11	D.J. Hibberd	<b>CSIRO</b>	Plym.527/CS-288	----	Cryo only
<i>Prymnesium patelliferum</i>	CAWP12	O. Moestrup	<b>Univ. of Copenhagen</b>	K 0252	----	Cryo only

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<b>Raphidophyceae</b>						
<i>Chattonella antiqua</i>	CAWR01	M.Watanabe	<b>Seto Inl. Sea Jap./CSIRO</b>	NIES-1/ CS-171;331	F/2	
<i>Chattonella antiqua</i>	CAWR18	L. Rhodes	Wellington Harbour NZ		F/2	
<i>Chattonella antiqua</i>	CAWR23	L. Rhodes	Great Barrier Is. Port Fitzroy NZ		F/2	
<i>Chattonella verruculosa</i>	CAWR21	L. Rhodes	Kaikoura NZ		L 1	
<i>Chattonella verruculosa</i>	CAWR22	J. Adamson	Taylor's Mistake NZ		L 1	
<i>Fibrocapsa japonica</i>	CAWR02	L. Rhodes	Leigh NZ		GP	
<i>Fibrocapsa japonica</i>	CAWR03	K. Yuki	<b>Tsuda Bay Jap./CSIRO</b>	NIES-136/ CS-332	GP	
<i>Fibrocapsa japonica</i>	CAWR19	L. Rhodes	Wellington Harbour NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR04	J.L. Stauber	<b>West Lake, Australia/CSIRO</b>	CS-169	GP	
<i>Heterosigma akashiwo</i>	CAWR05	L. MacKenzie	Big Glory Bay NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR06	L. Rhodes	Leigh NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR08	L. Rhodes	Ruakaka NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR09	L. MacKenzie	Nelson Harbour NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR13	L. MacKenzie	Hauraki Gulf NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR14	RA Cattolico	<b>Manchester, Puget Snd, USA</b>	Man E	GP	
<i>Heterosigma akashiwo</i>	CAWR15	JNC Whyte, E. Black	<b>Barkley Snd, Vancouver Is. Canada</b>	ABC <sup>2</sup> , NWFSC 502	GP	

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<b>Chlorophyceae</b> (Green Algae) <i>Chlamydomonas coccooides</i> <i>Chlamydomonas reinhardtii</i>	CAWG01 CAWG02	MAF G. M. Smith	Mahanga Bay NZ <b>Massachusetts USA</b>	Clones from soil organism isolated in 1945 in Massachusetts	GP TAP+/-agar	
<b>Cryptophyceae</b> (Cryptomonad Flagellates) <i>Cryptomonas sp.</i>	CAWCr01	L.Rhodes	Marlborough Sds.NZ		GP	
<b>Prasinophyceae</b> <i>Tetraselmis suecica</i>	CAWPR01	A. Dodson	<b>Brest, France/CSIRO</b>	CS-187	-----	Cryo only
<b>Rhodophyceae</b> (Red Algae) <i>Porphyridium purpureum</i>	CAWRh02		<b>Canada/CSIRO</b>	Halifax,Canada/CS25	-----	Cryo only

## Freshwater Algae

<b>Class/Name of Algae</b>	<b>Cawthron code number</b>	<b>Isolator</b>	<b>Site of isolation and/or source</b>	<b>Original strain designation</b>	<b>Culture media</b>	<b>Comments</b>
<b>Cyanophyceae</b> (blue-green algae) <i>Aphanizomenon sp.</i>	CAWBG01	Wayne Carmichael	<b>Wright State Uni USA.</b>	strainNH-5, clone a-4 (NH-5a-4)	MLA	Live + cryo
<i>Aphanizomenon issatschenkoi</i>	CAWBG02	Anna Crowe	Lake Hakanoa, Waikato NZ	HAKA01	MLA	

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Cawthron Institute Culture Collection of Micro-algae (CICCM) is still under development, with newly isolated strains being continuously added to the list.

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### Acronyms:

- CSIRO      Culture collection of microalgae, Hobart, Tasmania  
NEPCC     North East Pacific Culture Collection U.B.C. Vancouver, B.C. Canada  
CCMP      Provasoli-Guillard Nat. Center for Culture of Marine Phytoplankton, USA  
NIES       National Institute for Environmental Studies Collection, Japan  
EPA        Environmental Protection Agency, Florida USA