

Taxonomy for the ATBI Algae and Bacteria Project

Organism Group: Algae and Bacteria

Family	Genus	Epithet + Subspecies + Author	(Common Name)	Site Count
Achnanthidiaceae				
	Achnanthidium	exiguum v. heterovalva - (G. Krasske) D.B. Czarnecki - (Diatom)		1
		appalachianum - (Camburn and Lowe) Lowe - (Diatom)		2
	Planothidium	biporoma - (Hohn and Hellerman) - (Diatom)		1
		lanceolatum - (Bréb. ex Kützing) Round & Bukhtiyarova - (Diatom)		2
Acnanthaceae				
	Achnanthes	helvetica - (Hust.) L.-Bert. - (Diatom)		1
Amphipleuraceae				
	Frustulia	species 1 (Diatom)		2
		rhomboides - (Ehrenberg) DeToni - (Diatom)		1
		vulgaris - (Thwaites) De Toni - (Diatom)		2
Aulocoseiraceae				
	Aulacoseira	alpigena - (Grunow) Krammer - (Diatom)		1
Bacillariaceae				
	Hantzschia	amphioxys - (Ehrenberg) Grunow - (Diatom)		1
		amphioxys v. 1 (Diatom)		2
	Nitzschia	perminuta - (Grun.) M. Perag. - (Diatom)		1
		species 1 (Diatom)		1
		hantzschiana - Rabh. - (Diatom)		1
		alpina - Hust. - (Diatom)		1
		acidoclinata - L.-Bert. - (Diatom)		1
		species 2 (Diatom)		1
Cavinulaceae				
	Cavinula	lapidosa - (Krasske) L.-Bert - (Diatom)		1
		species 1 (Diatom)		1
		species 2 (Diatom)		1
Chaetophoraceae				
	Diplosphaera	chodatii - Bialosuknia - (Green alga)		1
Chariaceae				
	Characium			

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		species 1 (Green alga)		1
		species 2 (Green alga)		1
		species 3 (Green alga)		1
Chlorococcaceae				
	Tetraedron			
		minimum - (A. Br.) Hansg. - (Green Algae)		2
	Trochiscia			
		granulatum - (Reinsch) Hansg. - (Green alga)		1
Chroococcaceae				
	Chroococcus			
		tenax - (Kirchner) Hieronymus - (Bluegreen Bacteria)		1
		dispersus - (Keissler) Lemm. - (Blue-green alga)		2
		distans - (G.M. Smith) Kom.-Legn. & Cronb. - (Bluegreen Bacteria)		1
Chroococcales_family				
	Chlamydocapsa			
		species 1 (Blue-green alga)		1
Closteriaceae				
	Closterium			
		obliquum f. tatica - (Nordst.) Gutwinski - (Desmid green alga)		1
		transitorium - (Heimerl) Ducellier - (Desmid green alga)		1
		subcucumis - Schmidle - (Desmid green alga)		2
		speciosum - Lund - (Desmid green alga)		1
		species 1 (Desmid green alga)		1
		quadratum v. willei - Schmidle - (Desmid green alga)		1
		ochthodes - Nordstedt - (Desmid green alga)		1
		aphanichondrum - Nordstedt - (Desmid green alga)		1
		abbreviatum - Raciborski - (Desmid green alga)		1
		pygmaeum - Gutwinski - (Desmid green alga)		2
Cocconeidaceae				
	Cocconeis			
		placentula v. lineata - (Ehénberg) Van Heurde - (Diatom)		1
Cyanobacteriaceae				
	Cyanobacterium			
		cedrorum - (Sauvageau) Kom. - (Bluegreen Bacteria)		1
Cymbellaceae				
	Encyonema			
		neomesianum - Krammer - (Diatom)		2
		minutom - (Hilse and Rabenhorst) D.G. Mann - (Diatom)		1
		minutiforme - Kramm. - (Diatom)		1
		procerum - Kramm. - (Diatom)		1
		vulgare - Kramm. - (Diatom)		1
Desmidiaceae				
	Actinotaenium			

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		species 1 (Desmid green alga)		1
		diplosporum v. 1 (Desmid green alga)		1
	Staurastrum			
		lanceolatum - Archer - (Desmid green alga)		1
		capitulum v. 1 (Desmid green alga)		1
Diadesmidaceae				
	Diadesmis			
		species 2 (Diatom)		1
		species 1 (Diatom)		2
		keeleyi (Diatom)		2
		contenta f. parallela (Diatom)		1
		contenta - (Grun.) D.G. Mann - (Diatom)		2
		contenta f. biceps - (Grunow) P.B. Hamiltan - (Diatom)		3
	Luticola			
		saxophila (Diatom)		1
Diploneidaceae				
	Diploneis			
		smithii v. dilatata - (Peragallo) Terry - (Diatom)		1
		ovalis - (Hilse) Cleve - (Diatom)		1
Eunotiaceae				
	Eunotia			
		praerupta (Diatom)		1
		curtagrunowii - Norpel-Sch. & L.-Bert. - (Diatom)		1
		diodon - Ehrenberg - (Diatom)		1
		exigua - (Brébisson ex Kützing) Rabenhorst - (Diatom)		2
		exigua v. bidens - Hustedt - (Diatom)		2
		exigua v. tridentula - Østrup - (Diatom)		1
		monodon - Ehr. - (Diatom)		1
		species 1 (Diatom)		1
		tenella - (Grunow) Cleve - (Diatom)		1
		validia - Hustedt - (Diatom)		2
		validia v. 1 (Diatom)		1
		yanomami - Metzeltin and Lange-Bertalot - (Diatom)		1
		zygodon - Ehrenberg - (Diatom)		1
		glacialis - Meister - (Diatom)		1
Fragilariaceae				
	Diatoma			
		hiemala v. mesodon - (Ehrenberg) Grunow - (Diatom)		1
	Fragilaria			
		capucina - Desmaz. - (Diatom)		1
	Fragilariaforma			
		virescens v. capitata - (Østrup) Czarn. - (Diatom)		1
	Meridion			
		circulare v. constrictum - (Ralfs) Van Heurck - (Diatom)		1

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		allensmithii - Brandt - (Diatom)		1
	Synedra			
		famelica - Kutz. sensu Patr. & Reim. - (Diatom)		1
		amphicephala - Kutz. - (Diatom)		1
Gloeocystaceae				
	Gloeocystis			
		polydermatica - (Kützing) Hindák - (Green Algae)		2
		vesciculosa - Nägeli - (Green alga)		2
Gloeodiniaceae				
	Gloeodinium			
		montanum - Klebs - (Flagellate protist)		3
Gomphonemataceae				
	Gomphonema			
		subclavatum v. commutatum - (Gronow) A. Mayer - (Diatom)		1
		parvulum v. 1 (Diatom)		1
		micropus - Kützing - (Diatom)		1
		gracile - Ehr. - (Diatom)		2
		angustatum - (Kutz.) Rabh. - (Diatom)		1
Hyellaceae				
	Pleurocapsa			
		minor - Hansgirg em. Geitler - (Bluegreen Bacteria)		1
Klebsormidiaceae				
	Klebsormidium			
		nitens - (Menegheni in Kützing) Lokhorst - (Green Algae)		1
Melosiraceae				
	Melosira			
		dickiei - (Thwaites) Kutz. - (Diatom)		1
Merismopediaceae				
	Aphanocapsa			
		fusco-lutea - Hansg. - (Bluegreen Bacteria)		1
		musicola - (Menegh.) Wille - (Blue-green alga)		1
		species 1 (Blue-green alga)		1
Mesotaeniaceae				
	Mesotaenium			
		macrococum - (Kutz.) Roy & Bisset - (Green Algae)		2
		chlamydosporum - de Bary - (Green Algae)		2
		degreyii - Turner - (Filamentous green alga)		2
		caldariorum - (Lagerh.) Hansg. - (Filamentous green alga)		1
	Spirotaenia			
		eboracensis - G. West - (Filamentous green alga)		2
		minuta - Thuret - (Green Algae)		1
Microchaetaceae				
	Microchaete			

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		species 2 (Blue-green alga)		1
		species 1		1
Microcystaceae				
	Gloeocapsa			
		punctata - Nag. - (Bluegreen Bacteria)		1
		decorticans - (A. Br.) P.G. Richter - (Bluegreen Bacteria)		1
		caldariorum - Rabh. - (Bluegreen Bacteria)		1
		atrata - Kutz. - (Bluegreen Bacteria)		1
Naviculaceae				
	Decussata			
		placenta - (Ehr.) Lange-Bert. & Mezeltin in Lange-B - (Diatom)		2
	Microcostatus			
		krasskei - (Hustedt) Johansen & Sray - (Diatom)		2
	Navicula			
		decussis - Oestrup - (Diatom)		1
		seminulum (Diatom)		1
		keeleyi - Patr. - (Diatom)		1
		hassiacca - Krasske - (Diatom)		1
		hambergii - Hustedt - (Diatom)		1
		species 1 (Diatom)		2
		tantula - Hustedt - (Diatom)		1
		subdecussis - Hustedt - (Diatom)		1
		minima - Grunow - (Diatom)		1
Nostocaceae				
	Anabaena			
		species 1 (Blue-green alga)		1
		variabilis (Blue-green alga)		1
		species 4 (Blue-green alga)		1
		species 2 (Blue-green alga)		1
		constricta - (Szafer) Geitler - (Blue-green alga)		1
		species 3 (Blue-green alga)		1
	Camptylonemopsis			
		species 1 (Blue-green alga)		1
	Cylindrospermum			
		species 1 (Blue-green alga)		1
	Hapalosiphon			
		fontinalis v. fischeroides - Hansgirg - (Blue-green alga)		1
		species 1 (Blue-green alga)		1
	Nodularia			
		harveyana - Thuret ex Bornet & Flahault - (Bluegreen Bacteria)		1
	Nostoc			
		species 1 (Blue-green alga)		1
		punctiforme - (Kutz.) Hariot - (Bluegreen Bacteria)		1
		species 2 (Blue-green alga)		1

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		microscopicum - Carmichael ex Bornet & Flahault -	(Bluegreen Bacteria)	2
		humifusum - Carm. sec. Harvey -	(Bluegreen Bacteria)	1
	Trichormus			
		species 2 (Blue-green alga)		1
		species 1 (Blue-green alga)		1
Orthoseiraceae				
	Orthoseira			
		dendroteres - (Ehrenberg) Crawford -	(Diatom)	1
		roeseana - (Rabenhorst) O'Meara -	(Diatom)	2
		spinosa - (Cleve-Euler) comb.nov. -	(Diatom)	1
Oscillatoriaceae				
	Oscillatoria			
		chalybea - Mertens -	(Blue-green alga)	1
		rupicola - Hansg. -	(Bluegreen Bacteria)	1
Oscillatoriales_family				
	Komvophoron			
		species 1 (Blue-green alga)		1
Palmellaceae				
	Palmellopsis			
		muralis - Bold & King -	(Green Algae)	1
Phaeothamnaiceae				
	Schizochlamydeella			
		minutissima - P. Broady -	(Chrysoomonads)	1
Phormidiaceae				
	Phormidium			
		papyraceum - Kützing ex Gomont -	(Bluegreen Bacteria)	2
Pinnulariaceae				
	Caloneis			
		species 1 (Diatom)		1
		species 3 (Diatom)		1
		lauta - Carter & Bailey-Watts -	(Diatom)	1
		species 2 (Diatom)		1
	Pinnularia			
		species 2 (Diatom)		2
		borealis - Ehr. -	(Diatom)	1
		borealis v. rectangularis - Carlson -	(Diatom)	2
		angusta - (Cleve) Kramm. -	(Diatom)	1
		species 1 (Diatom)		1
		viridis - (Nitzsch) Ehrenberg -	(Diatom)	1
		stomatophora - (Grunow) Cleve -	(Diatom)	1
Pseudanabaenaceae				
	Leptolyngbya			
		species 9 (Blue-green alga)		1

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		species 8 (Blue-green alga)		1
		nonconstricta (Blue-green alga)		1
		badia (Bluegreen Bacteria)		1
		subtilissima - (Kützing) Komárek - (Blue-green alga)		1
		angustissima - (W. & G.S. West) Anagn. & Kom. - (Bluegreen Bacteria)		1
		appalachiana (Bluegreen Bacteria)		3
	Spirulina			
		albida - Kolkwitz - (Bluegreen Bacteria)		1
Rivulariaceae				
	Calothrix			
		braunii - Bornet & Flahault - (Bluegreen Bacteria)		1
		species 1 (Blue-green alga)		1
Scenedesmaceae				
	Follicularia			
		botryoides - (W. Herndon) Kom. - (Green Algae)		1
	Scotiellopsis			
		levecostatum - (Gollerb.) Puncoch. & Kalina - (Green alga)		1
		species 1 (Green alga)		1
Scytonemataceae				
	Scytonema			
		hyalinum - Gardner - (Blue-green alga)		1
		species 1 (Blue-green alga)		2
		hormoides - (Kützing) Born et Flah. - (Blue-green alga)		2
Sellaphoraceae				
	Sellaphora			
		species 1 (Diatom)		1
		species 2 (Diatom)		1
Stauroneidaceae				
	Stauroneis			
		anceps (Diatom)		1
Surirellaceae				
	Stenopterobia			
		species 1 (Diatom)		1
		species 2 (Diatom)		1
Synechococcaceae				
	Aphanothece			
		castognei - (Bréb.) Rabh. - (Blue-green alga)		1
		saxicola - Nägeli - (Bluegreen Bacteria)		2
	Gloeothece			
		fusco-lutea - Nägeli - (Bluegreen Bacteria)		1
		heufleri - heufleri Grunow - (Blue-green alga)		1
		palea - (Kützing) Rabenhorst - (Bluegreen Bacteria)		1
		tepidariorum - (A. Braun) Lagerheim - (Bluegreen Bacteria)		1

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Tabellariaceae				
	Tetracyclus			
		rupestris - (A. Br.) Grunow - (Diatom)		1
Tribonemataceae				
	Tribonema			
		species 1 (Alga)		1
		vulgare - Pascher - (Yellow-green alga)		1
Zygnemataceae				
	Mougeotia			
		species 1 (Green Algae)		1
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(Where '_genus', and/or 'species' appears, it means that specimens representing this taxon could not be identified to a lower taxonomic level due to one or more of the following issues: specimens are immature, incomplete, poorly oriented for examination, and/or that additional specimens or methodologies are needed to resolve morphological ambiguities.)