

Författare:
Ann-Turi Skjævik

Uppdragsgivare:
Bohuskustens
vattenvårdsförbund
Dnr:
2002/1445/204

Rapportnr:
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Version:
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Februari

Klass	Släkte	Art	DANA-FJORD 0-10m	DANA-FJORD 10-20m	HAV-STENS-FJORD 0-10m	HAV-STENS-FJORD 10-20m	KOLJÖ-FJORD 0-10m	KOLJÖ-FJORD 10-20m	KOSTER-FJORD 0-10m	KOSTER-FJORD 10-20m	STRET-UDDEN 0-10m	STRET-UDDEN 10-20m	ASTOL 0-10m	ASTOL 10-20m
			Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l
Ciliophora	Tintinnidium	musicola												
Ciliophora	Tintinnopsis	spp											98	
Ciliophora	Unidentified tintinnids	spp		147						51				
Cryptophyceae	Plagioselmis	longola	3456	5178			5178				8630	1813		1726 3452
Choanoflagellidea	Calliacthanta	longicaudata								1813				
Choanoflagellidea	Choanoflagellidea	spp			3452						1726			3452
Chrysophyceae	Meringosphaera	mediterranea									447			
Ciliophora	Balanion	spp											49	
Ciliophora	Ciliophora	spp	833	931	1127			1372	255	539	1785	441	1323	49
Ciliophora	Leegaardiella	ovalis											49	98
Ciliophora	Mesodinium	rubrum	1372	539	539		1421	294	1581	441	714	2793	1029	98
Ciliophora	Stenosemella	sp	49				50							
Ciliophora	Stenosemella	spp									49			49
Ciliophora	Strombidium	spp	147	245	392	200	98		459	490	408	833	980	49
Cryptophyceae	Cryptomonadales	spp		6904	1726					5178	5439			
Cryptophyceae	Plagioselmis	spp								1813				
Cryptophyceae	Teleaulax	amphioxia		1726	3452	1769	6904	3468	10878	3452	1813	6904	3452	
Cryptophyceae	Teleaulax	spp	10368		22438		8630		3626	1726	5439		29342	3452
Diatomophyceae	Chaetoceros	subtilis var. subtilis												2682
Diatomophyceae	Stellarima	stellaris												49
Dinophyceae	Alexandrium	spp									49			
Diatomophyceae	Centrales	spp		49		50					147			
Diatomophyceae	Cerataulina	pelagica									98	51		
Diatomophyceae	Chaetoceros	brevis		147						102		940	735	392
Diatomophyceae	Chaetoceros	curvisetus											980	
Diatomophyceae	Chaetoceros	danicus								153			196	49
Diatomophyceae	Chaetoceros	decipiens	294											49
Diatomophyceae	Chaetoceros	laciniosus												343
Diatomophyceae	Chaetoceros	similis	98	98					939	49	470			98
Diatomophyceae	Chaetoceros	spp	294	294			894		153	294	470	1127	49	588
Diatomophyceae	Chaetoceros	spp solitary												1726 3452
Diatomophyceae	Chaetoceros	subtilis		294						51				343
Diatomophyceae	Coscinodiscus	radiatus												49
Diatomophyceae	Coscinodiscus	wallesii	49									51		49
Diatomophyceae	Cylindrotheca	closterium	1792	5811	447			1797	1878	4470	2820	1788	1341	22438
Diatomophyceae	Dactyliosolen	fragilissimus												49
Diatomophyceae	Guinardia	delicatula	588						51	343				
Diatomophyceae	Guinardia	flaccida	196	196						49			196	
Diatomophyceae	Navicula	spp										1813		
Diatomophyceae	Navicula	transitans		447		100								
Diatomophyceae	Nitzschia	spp					49							
Diatomophyceae	Paralia	sulcata											196	
Diatomophyceae	Pennales	spp								51	49			49
Diatomophyceae	Pseudo-nitzschia	spp								51			98	147
Diatomophyceae	Skeletonema	costatum	3773	8085	1788		294		3519	2548	4335	4704	2682	25431
Diatomophyceae	Thalassionema	nitzschoides	294	1421						539	255	196		1862
Diatomophyceae	Thalassiosira	angulata								102				343
Diatomophyceae	Thalassiosira	anguste-lineata												392
Dictyocophyceae	Dictyocha	speculum	490	294	196		245	98	153	294	306	147	147	147
Dinophyceae	Ceratium	furca				50								49
Dinophyceae	Ceratium	fuscum	49	49		100				51				49
Dinophyceae	Ceratium	horridum				50							49	98
Dinophyceae	Ceratium	lineatum		98			294	1176	357	441	51	98	98	343
Dinophyceae	Ceratium	longipes	294		49	50				98	153	147	392	49
Dinophyceae	Ceratium	tripos	833	392	98				816	637	1275	784	1274	588
Dinophyceae	Dinophysis	acuminata									447			147
Dinophyceae	Dinophysis	dens												49
Dinophyceae	Dinophysis	norvegica	294							102	49	153	147	98
Dinophyceae	Dinophysis	spp					49							98
Dinophyceae	Diplopsalis-group	spp								51	49			49
Dinophyceae	Gymnodiniales	spp	98	196	1341		3648	3566	5745	294			147	5485
Dinophyceae	Gymnodinium	verruculosum	448	1726	447	9084		3468				1813		3452
Dinophyceae	Gyrodinium	spirale	98	49	49		49	392	102	147	204	98		147
Dinophyceae	Gyrodinium	spp				50								49
Dinophyceae	Heterocapsa	rotundata	6912							3626		5439		
Dinophyceae	Katodinium	glaucum								204			147	
Dinophyceae	Noctiluca	scintillans				50							49	
Dinophyceae	Peridinales	spp	1728	2173	894				204	1922	470	49	1341	894
Dinophyceae	Polykrikos	schwartzii								51				
Dinophyceae	Protoperidinium	spp		49			49			102	98		294	98
Dinophyceae	Scrippsiella	sp	448			50								
Euglenophyceae	Eutreptiella	gymnastica	1728											
Haptophyceae	Chrysochromulina	spp				50	1726							
Incertae sedis taxa	Flagellates	spp	3456	1726			1775		939					
Incertae sedis taxa	Cryptothecomonas	scybalophora	448						7252	1726	3626		1726	1726
Incertae sedis taxa	Ebria	tripartita												49
Nostocophyceae	Cyanobacteria	spp filaments							204					
Others	Flagellate	sp_Y					1726							
Prasinophyceae	Prasinophyceae	swarmer												6904
Prasinophyceae	Pterosperma	spp								51				
Prasinophyceae	Pyramimonas	spp		5178							1726			

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Incertae sedis taxa	Telonema	subtile										4084			
Incertae sedis taxa	Cryothecomonas	scybalophora	1726												
Incertae sedis taxa	Cryothecomonas	sp					4023	1769							
Prymnesiophyceae	Phaeocystis	spp_colony													2009
Prasinophyceae	Pyramimonas	spp					8630		10356	10404	8168				1717
Raphidophyceae	Chattonella	spp	251996	17260			3576		13808	6936	83722			214024	12019
Raphidophyceae	Heterosigma	spp	1726												

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Dinophyceae	Protoperidinium	spp	672	485	245	485	288	291	2328	776	196	588	485	194
Dinophyceae	Protoperidinium	steinii								582			97	
Filosea	Pseudodiffugia	sp										1717		
Haptophyceae	Chrysochromulina	spp		7930					31720		1726			
Incertae sedis taxa	Flagellate	spp	19635	35685			3927		452010	182396	17260		261690	5948
Others	Flagellate	sp_Y							3966	7932	1726		7930	3965
Prasinophyceae	Prasinophyceae	spp_swarmers							27762	11898	6904		3966	
Prasinophyceae	Pyramimonas	spp							47580	15860	1726			
Raphidophyceae	Chattonella	spp				1963							11895	
Raphidophyceae	Heterosigma	spp	23562	7930							3452			31720

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Miscellaneous	Unicell	spp								3410216	1501610		6904	1537632	1007107
Prymnesiophyceae	Corymbellus	aureus										6868			
Prasinophyceae	Pyramimonas	spp	3452	3452	17260	1726	4445	4295				1717	6904		
Prasinophyceae	Pyramimonas	virginica												13488	
Raphidophyceae	Heterosigma	spp	51780	34520			889					48076	18986	65192	53832

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Augusti

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Cryptophyceae	Plagioselmis	prolonga			31444		31444	9000	3375	10143	18004		6762	
Chrysophyceae	Meringosphaera	mediterranea					6738							281
Ciliophora	Ciliophora	spp							1124					
Ciliophora	Helicostomella	subulata		686	400								98	
Ciliophora	Laboea	strobila						98	49	49				
Cryptophyceae	Hemiselmis	virescens					13476		12375	4508	13503		18032	4498
Cryptophyceae	Teleaulax	spp			17968		8984		9000					
Cyanophyceae	Anabaena	spp												281
Diatomophyceae	Chaetoceros	ceratosporus ceratosporus			17968		341392							
Diatomophyceae	Chaetoceros	socialis_chains forma radians	64148				44920				2248	1120		4215
Diatomophyceae	Chaetoceros	thronsenii var. thronsenii					103316							
Diatomophyceae	Licmophora	spp							4500					
Diatomophyceae	Rhizosolenia	hebetata forma semispina		147										6744
Dinophyceae	Gymnodinium	sp. 1	27492	9000	22460		42674	18000	36000		562		9016	562
Dinophyceae	Prorocentrum	micans	572		6174	3800		882		147	2940	1400	441	3934
Dinophyceae	Protoperidinium	crassipes/curtipes						343		49	147	49		
Dinophyceae	Protoperidinium	curtipes/crassipes		49										
Diatomophyceae	Asterionellopsis	glacialis												
Diatomophyceae	Cerataulina	pelagica	8573	17984	17968		35936		13207	1405	7025	840	99176	4777
Diatomophyceae	Chaetoceros	curvisetus									294			
Diatomophyceae	Chaetoceros	danicus						4500	196				343	843
Diatomophyceae	Chaetoceros	decipiens				1100								
Diatomophyceae	Chaetoceros	didymus					686							
Diatomophyceae	Chaetoceros	spp											245	843
Diatomophyceae	Chaetoceros	spp. solitary	48111											
Diatomophyceae	Chaetoceros	tenuissimus	9164	27000	53904				9000					
Diatomophyceae	Coscinodiscus	radiatus		49	196	250	98							
Diatomophyceae	Coscinodiscus	spp	41238	562	166204	6846	87594		562			280	4508	
Diatomophyceae	Cylindrotheca	closterium	18328		71872		260536	13500	1124					
Diatomophyceae	Dactylosolen	fragilissimus								1967	1405			
Diatomophyceae	Guinardia	delicatula		562					3372		1078	196	2058	833
Diatomophyceae	Guinardia	strata	3700	2248	294		4410	784	539					
Diatomophyceae	Guinardia	strata												
Diatomophyceae	Leptocylindrus	danicus	279502	3653			51658		7868		14893	1120	67620	
Diatomophyceae	Leptocylindrus	minimus	29783		35936		35936		1124	1124	9002		9016	
Diatomophyceae	Pennales	spp						4500				4496		
Diatomophyceae	Proboscia	alata		245	85348		5978		1124		98	1686	245	490
Diatomophyceae	Pseudo-nitzschia	delicatissima-group	48111	1127	49412							1686	1120	
Diatomophyceae	Pseudo-nitzschia	seriata-group		1967	197648		139252				1405		1405	
Diatomophyceae	Rhizosolenia	pungens					294			281			281	
Diatomophyceae	Rhizosolenia	spp									49		281	
Diatomophyceae	Skeletonema	costatum	54984		2528996	757624	323424	29250					13524	7306
Diatomophyceae	Thalassionema	nitzschoides	11455	3934		50	784	539		1124	562		843	3091
Dictyochophyceae	Dictyocha	speculum			22460	850	196							
Dinophyceae	Amphidinium	crassum			17968									
Dinophyceae	Ceratum	furca			2254	3900	4312	4067					98	49
Dinophyceae	Ceratum	fuscus	450		1176	1800	588	784	147	49	294		343	441
Dinophyceae	Ceratum	lineatum	50		9016	6200	7840	6174	49					98
Dinophyceae	Ceratum	longipes	150		392		392			49	49	49	49	49
Dinophyceae	Ceratum	tripos	800		686	150	980	1372	49				637	490
Dinophyceae	Dinophysis	acuminata			196					49	294		49	
Dinophyceae	Dinophysis	acuta					196		196		49			
Dinophyceae	Dinophysis	dens					98							
Dinophyceae	Dinophysis	norvegica	300	1686	4018	1750	2646	2989	784	245	1372	147	882	441
Dinophyceae	Dinophysis	odiosa				100								
Dinophyceae	Gymnodinium	spp												47229
Dinophyceae	Gymnodinium	vestificii					20214	9000				280	4508	
Dinophyceae	Heterocapsa	rotundata	18328				71872	4500	42750	19159	9002		45080	
Dinophyceae	Karenia	mikimotoi								1405				8996
Dinophyceae	Katodinium	glaucom						4500	1124	562				281
Dinophyceae	Lingulodinium	polyedrum			12348	2100	98						281	
Dinophyceae	Noctiluca	scintillans	50							98				
Dinophyceae	Phalacroma	rotundatum					98			49				
Dinophyceae	Protoperidinium	depressum			196	250								
Dinophyceae	Protoperidinium	divergens			490				49		562			49
Dinophyceae	Protoperidinium	pellucidum			392	100								
Dinophyceae	Protoperidinium	spp		562						562	562			
Dinophyceae	Scrippsiella	trochoidea					11230							
Haptophyceae	Chrysochromulina	pringsheimii								10125				
Haptophyceae	Chrysochromulina	spp					17968			145125				
Incertae sedis taxa	Flagellates	spp	215244	35239	179680	52486	334654	56250	168750	48461	346577	58448	83398	1117041
Incertae sedis taxa	Leucocryptos	marina	11455				11230							
Miscellaneous	Unicell	spp	573984	165706	5758684	2749649	644602	211500	139500	1909348	711158	105656	6850662	4468164
Prasinophyceae	Pyramimonas	spp							7875					
Prasinophyceae	Pyramimonas	virginica					29198							

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Dinophyceae	Heterocapsa	rotundata	6868	1726				1805	1726	5178	1769	3556		
Dinophyceae	Heterocapsa	triquetra	297									460		
Dinophyceae	Katodinium	glaucum				49	50	936			1769	460	894	
Dinophyceae	Micracanthodinium	claytonii											447	
Dinophyceae	Nematospides	vigilans						204						
Dinophyceae	Peridinales	spp	98	4640	1420	2731	441	1624	357	3550	2167	858	4178	545
Dinophyceae	Peridiniella	danica											460	
Dinophyceae	Phalacroma	rotundatum	147	49	50						49	50	150	
Dinophyceae	Polykrikos	schwartzii		49			49	50		49	49	50		
Dinophyceae	Protoceratium	reticulatum			50									
Dinophyceae	Protoperidinium	bipes					49				49	447		460
Dinophyceae	Protoperidinium	brevipes	297							447				
Dinophyceae	Protoperidinium	depressum			500		147	50		49	98		50	
Dinophyceae	Protoperidinium	divergens			100		147	150						
Dinophyceae	Protoperidinium	granii	98											
Dinophyceae	Protoperidinium	leonis												50
Dinophyceae	Protoperidinium	oblongum											100	
Dinophyceae	Protoperidinium	pallidum			100		49				49	50		
Dinophyceae	Protoperidinium	pellucidum			100									98
Dinophyceae	Protoperidinium	spp	196	196	300		98	150	357	98	539	650	300	49
Dinophyceae	Protoperidinium	steinii	245	98	100	49	196	150	204	147	245	100	650	49
Dinophyceae	Torodinium	robustum					49							
Euglenophyceae	Eutreptiella	spp												
Haptophyceae	Chrysochromulina	spp	24038	20712	3556		10356	1769	37905	17260	12082	21228	21336	12082
Incertae sedis taxa	Flagellates	spp	99586	77670	15144		41424	17690	77615	84574	79396	53070	55118	13808
Incertae sedis taxa	Ebria	tripartita	49				1341				1341			447
Miscellaneous	Unicell	spp	34340	5178	3556	1726	31068	12383	41515	32794	81122	44225	28448	17260
Prymnesiophyceae	Acanthoica	quattrospina										458		
Prasinophyceae	Pyramimonas	spp	3434						1805	3452	1726			3556
Raphidophyceae	Chattonella	spp						1374			1726			150
Raphidophyceae	Heterosigma	spp			7112						1726			

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Incertae sedis taxa	Ebria	tripartita	16560	11880	26535	16002	19558	27472	22997	15921	58696	17260	60410	39710
Miscellaneous	Unicell	spp	44450	17170					26535		10830		10356	
Prasinophyceae	Pyramimonas	spp	1776							3538				

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December

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			FJORD	FJORD	STENS-	STENS-	FJORD	FJORD	FJORD	FJORD	UDDEN	UDDEN	0-10m	10-20m
			0-10m	10-20m	0-10m	10-20m	0-10m	10-20m	10m	10-20m	0-10m	10-20m	0-10m	10-20m
			Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l	Celler/l
Chrysophyceae	Pseudopedinella	cf.pyriforme			1769									
Ciliophora	Ciliates	spp	102											
Ciliophora	Unidentified tintinnids	spp					50							
Cryptophyceae	Plagioselmis	prolonga	4668								11630			
Choanoflagellidea	Calliacantha	longicaudata			1769	3538	3610							
Choanoflagellidea	Choanoflagellidea	spp			1769	3538	8845	7220		6975		4576		8890
Choanoflagellidea	Choanoflagellidea	spp_solitary			1769	3538	8845	7220		6975		4576		8890
Ciliophora	Ciliophora	spp	102	11787	150	200	350	306	700	1314	1734	100	637	200
Ciliophora	Laboea	strobila		102						202	51			
Ciliophora	Mesodinium	rubrum											245	
Ciliophora	Strombidium	spp			200	100	200	153					392	100
Ciliophora	Tiarina	fuscus			50									
Cryptophyceae	Cryptomonadales	spp			42456	3538	22997	9025					46602	14224
Cryptophyceae	Hemiselmis	virescens	16338						4650	6978	6864			
Cryptophyceae	Teleaulax	acuta	4668						2292	11630				
Cryptophyceae	Teleaulax	amphioxieia	21006		1769		1769			9304			3452	
Cryptophyceae	Teleaulax	spp					10614	7220						
Diatomophyceae	Chaetoceros	ceratosporus ceratosporus	4668											
Diatomophyceae	Chaetoceros	socialis_chains forma radians										4576		
Diatomophyceae	Chaetoceros	subtilis var. subtilis												460
Diatomophyceae	Cocconeis	spp							2292					
Diatomophyceae	Rhizosolenia	hebetata forma semispina								101			298	460
Dinophyceae	Amphidinium	spp					50							
Dinophyceae	Cochlodinium	spp											298	50
Dinophyceae	Gymnodinium	galeatum	4668				610	468					298	
Dinophyceae	Gymnodinium	roseostigma							6876					
Dinophyceae	Gymnodinium	sp. 1						1805		404	9304			
Dinophyceae	Gyrodinium	flagellare			3538			1805					3452	
Dinophyceae	Heterocapsa	cf.minima			3538									1778
Dinophyceae	Proocentrum	micans					200							
Dinophyceae	Protoperidinium	crassipes/curtipes						204						
Diatomophyceae	Asterionellopsis	glacialis		459					200				49	
Diatomophyceae	Centrales	spp			250	50	350	204					147	50
Diatomophyceae	Cerataulina	pelagica					300						147	
Diatomophyceae	Chaetoceros	affinis								303				
Diatomophyceae	Chaetoceros	decipiens							350					
Diatomophyceae	Chaetoceros	similis	102				3538							
Diatomophyceae	Chaetoceros	spp					800	102						
Diatomophyceae	Chaetoceros	tenuissimus									4652			
Diatomophyceae	Coscinodiscus	radiatus	561	306					50		102	150		
Diatomophyceae	Cylindrotheca	closterium	102	204	150	458	610	51	450	404	6978		894	700
Diatomophyceae	Dactyliosolen	fragillissimus					450						441	
Diatomophyceae	Ditylum	brightwellii	102	51			450	153						
Diatomophyceae	Eucampia	zodiacus					200							
Diatomophyceae	Guinardia	delicatula	102	408										
Diatomophyceae	Guinardia	flaccida											196	
Diatomophyceae	Leptocylindrus	danicus	11670	102					150					
Diatomophyceae	Navicula	spp	102										1726	
Diatomophyceae	Navicula	transitans		153					150					
Diatomophyceae	Odontella	mobiliensis										150		
Diatomophyceae	Paralia	sulcata				500								
Diatomophyceae	Pennales	spp	21006	14022		100	50		100			16016	294	100
Diatomophyceae	Proboscia	alata	1530	561					200	303	969	400	490	50
Diatomophyceae	Pseudo-nitzschia	delicatissima-group	5202	969	100	150				707			1372	50
Diatomophyceae	Pseudo-nitzschia	seriata-group	13872	1632			50	204	300	1515	3060	500	1372	250
Diatomophyceae	Skeletonema	costatum			2150		4150	1683		707	6978			200
Diatomophyceae	Thalassionema	nitzschoides		255	250		100	306	200					200