

# Surtsey's Freshwater Biota after 14 Months

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Traps, in the form of sterile laundry tubs, were first placed on Surtsey in early June, 1967. See the report on 1967 for other details (in: Surtsey Research Progress Report IV, June 1968, pp 83-88). Samples have been collected in the early fall of 1967 and in the spring and fall of 1967. Several of the traps have been filled with ash, or broken, or destroyed by the sea as it cut off about 100 meters of the southern part of the island during the winter of 1967-68. The results of examination of the three series of samples which have been taken are given in Table 1.

The average number of different kinds of organisms in those traps which contained freshwater at the time of sampling were 6.75, 15.8, and 15.4, respectively.

**TABLE 1**  
**ORGANISMS IN AQUATIC TRAPS**  
**ON SURTSEY**  
 An "x" indicates presence of organism

Trap No.	Organism	Fall '67	Spring '68	Fall '68
1	<i>Chlamydomonas</i>	x	x	
	<i>Chlamydomonas</i> (another sp.)	x		
	<i>Brachiomonas</i>	x	x	
	<i>Chlorella</i>	x		
	<i>Chlorococcum</i>		x	
	<i>Closteriopsis</i> (?)	x		
	Diatom	x	x	
	Diatom (another sp.)	x		
	<i>Hormidium</i>	x		
	<i>Zygnema</i> (or <i>Zygnemopsis</i> )	x		
	<i>Oscillatoria</i>	x	x	
	<i>Nodularia</i> (?)	x		
	<i>Anabaena</i> (?)		x	
	<i>Oicomonas</i>	x	x	
	<i>Oicomonas</i> (another sp.)		x	
	<i>Bodo globosus</i>		x	
	<i>Bodo</i> sp.		x	
	<i>Pleuromonas</i> (?)			x
	<i>Astramoeba radiosa</i>		x	
	<i>Mayorella</i>		x	
	<i>Flabellula</i> (?)			x
	<i>Diffugia</i>			x
	<i>Actinophrys</i>			x
	<i>Platyophyra vorax</i>		x	
	<i>Oxytricha</i>			x
	Moss protonema		x	
	Illoricate rotifer			x
	Totals	0 (satly)	19	13
2	Broken			
3	<i>Chlamydomonas</i>	x	x	x
	<i>Chlorella</i>		x	
	<i>Closteriopsis</i> (?)		x	
	<i>Golenkinia</i>			x
	Chlorococcolian alga	x	x	x
	<i>Oocystis</i>			x
	Phytoflagellate			x
	<i>Cosmarium</i>			x
	<i>Raphidonema</i> (?)		x	
	<i>Tribonema</i>			x
	<i>Hormidium</i>		x	x
	<i>Zygnema</i> (or <i>Zygnemopsis</i> )			x
	Chaetophoraceae		x	
	Diatom			x
	<i>Schizogonium</i>			x
	<i>Plectomena</i>		x	
	<i>Oscillatoria</i>		x	x

Trap No.	Organism	Fall '67	Spring '68	Fall '68	Trap No.	Organism	Fall '67	Spring '68	Fall '68
	<i>Anisonema</i>			x		<i>Nannochloris</i>	x		
	<i>Monas</i>	x	x	x		<i>Chlorella</i>		x	
	<i>Monas</i> (another sp.)			x		<i>Chlorococcum</i>		x	
	<i>Bodo</i>	x	x	x		Chlorococcalian alga	x		x
	<i>Amphimonas</i>	x				<i>Hormidium</i>		x	
	<i>Cercomaslix</i>	x				Diatom		x	x
	<i>Oicomonas</i>		x			Diatom			x
	<i>Vahlkampfia</i>			x		<i>Oscillatoria</i>		x	x
	<i>Pseudodiffugia</i>			x		<i>Oscillatoria</i> (another sp.)		x	x
	Microgromiidae (?)			x		<i>Oscillatoria</i> (another sp.) ?		x	
	<i>Cyrtolophosis</i>			x		<i>Coelosphaerium</i> (?)		x	
	<i>Pseudoglaucoma</i>			x		<i>Nodularia</i> (?)		x	
	<i>Euchlanis</i>			x		<i>Anabaena</i>		x	x
	<i>Rotaria</i> or <i>Macrotrachela</i>			x		Nostocaceae			x
	Total	6	12	23		Chroococcalian alga			x
						<i>Monas</i>	x	x	x
						<i>Oikomonas</i>	x		x
4	<i>Chlamydomonas</i>	x	x (ash)	x		<i>Amphimonas</i>	x		
	<i>Golenkinia</i>			x		<i>Bodo</i>	x	x	x
	<i>Chlorococcum</i>		x (ash)			<i>Flabellula</i>		x	
	<i>Tribonema</i>			x		<i>Vahlkampfia</i>		x	
	<i>Anabaena</i>	x				Hartmanellidae			x
	<i>Fasiculochloris</i>	x				<i>Acanthamoeba</i>		x	x
	Nostocaceae			x		<i>Nuclearia</i> (?)		x	
	<i>Monas</i>			x		<i>Arcella</i> (?)			x
	<i>Oicomonas</i>	x	x (ash)	x		Diffflugidae			x
	<i>Oicomonas</i> (another sp.)		x (ash)			<i>Centropyxis</i> (?)		x	
	<i>Bodo</i>	x		x		<i>Platyophyra vorax</i>		x	
	<i>Cercobodo</i>	x				Hymenostome		x	
	<i>Thylacomonas</i>			x		<i>Tachysoma</i>		x	x
	<i>Cryptomonas</i>			x		<i>Rhabdostyla</i>		x	
	<i>Mayorella</i>	x				<i>Cephalodella</i>			x
	<i>Flabellula</i>			x		Total	6	25	13
	<i>Amoeba</i>			x					
	Hartmanellidae or				6	<i>Chlamydomonas</i>		x	x
	Vahlkampfiidae	x				<i>Chlamydomonas</i> (another sp.)		x	
	Filose Rhizopod (small)	x				<i>Brachiomonas</i>		x	x
	<i>Centropyxis</i>			x		<i>Pascheriella tetras</i>		x	x
	<i>Euchelys</i>	x				<i>Chlorella</i>		?	x
	<i>Euchlanis</i>			x		Chlorococcalean agla		x	x
	Total	10	4 (ash)	13		Chlorosphaeralean agla		x	
						<i>Gyrosigma</i>		x	
5	<i>Chlamydomonas</i>		x			Diatom (another sp.)		x	
	<i>Chlamydomonas</i> (another sp.)		x			Diatom (another sp.)		x	
	<i>Brachiomonas</i>		x	x		<i>Oscillatoria</i>		x	x
	<i>Carteria</i>		x			<i>Oscillatoria</i> (another sp.)			x

Trap No.	Organism	Fall '67	Spring '68	Fall '68	Trap No.	Organism	Fall '67	Spring '68	Fall '68
	<i>Monas</i>		x	x	10	<i>Chlamydomonas</i>	x	x	x
	<i>Oicomonas</i>		x	x		<i>Brachiomonas</i>		x	
	<i>Bodo</i>		x			<i>Cryptomonas</i>			x
	<i>Pleuromonas</i>		?			<i>Pascheriella</i>			x
	<i>Vahlkampfia</i>		x	x		Phytoflagellate			x
	<i>Astramoeba</i>			x		<i>Chlorella</i>	?	x	x
	<i>Nuclearia</i>			?		<i>Chlorococcum</i>		x	
	<i>Platyophora vorax</i>		x			<i>Closteriopsis</i>			x
	<i>Chilodonella</i>			x		<i>Hormidium</i>		x	
	<i>Oxytricha</i>		x			<i>Oscillatoria</i>			x
	<i>Euplotes</i>		x	x		Nostocaceae			?
	<i>Tachysoma</i>			x		<i>Oicomonas</i>	x	x	
	<i>Cephalodella</i>			x		<i>Cercobodo</i>	?		
	Rotifer (another sp.)			x		<i>Colpoda</i>		x	
	<b>Total</b>	0 (dry)	19	17		<i>Cyrtolophosis</i>			x
						Holotrich			x
						Holotrich			x
						<i>Opisthotricha</i>			x
7	<i>Anisonema</i>			x		<i>Cephalodella</i>			?
	<i>Chlamydomonas</i>			x		Tendipedidae			x
	<i>Brachiomonas</i>			x		<b>Total</b>	4	7	14
	<i>Cryptomonas</i>			x					
	<i>Gyrosigma</i>			x	11	<i>Chlamydomonas</i>		x	x
	<i>Suriella</i>			x		<i>Chlamydomonas</i> (another sp.)		x	
	Diatom (another sp.)			x		<i>Brachiomonas</i>			x
	<i>Monas</i>			x		<i>Cryptomonas</i>			x
	<i>Bodo</i>	x				<i>Chlorella</i>			x
	<i>Flabellula</i> ? (sm)			x		<i>Chlorococcum</i>		x	
	Hartmanellidae or					<i>Closteriopsis</i>		x	
	Vahlkampfiidae			x		<i>Hormidium</i>		x	x
	<i>Platyophyra</i>			x		<i>Oscillatoria</i>			x
	<i>Colpoda</i>	x				<i>Monas</i>		x	
	<i>Euplotes</i>			x		<i>Monas</i> (another sp.)		x	
	<b>Total</b>	2	0 (lost)	12		<i>Oicomonas</i>			x
8	Broken					<i>Bodo</i>		x	
						<i>Vahlkampfia</i>		x	?
						<i>Nuclearia</i>			?
						<i>Actinosphaerium</i>			?
9	<i>Chlamydomonas</i>	full		x (salty)		<i>Platyophyra</i>			x
	<i>Chlorococcum</i>	of		x (salty)		<i>Cyrtolophosis</i>		x	x
	<i>Bracteacoccus</i>	ash		x (salty)		<i>Oxytricha</i>		x	x
	<i>Hormidium</i>			x (salty)		<i>Rhabdostyla</i>		x	
	<i>Platyophyra</i>			x (salty)		<i>Vorticella</i>		x	
	<b>Total</b>			5		<b>Total</b>	0 (dry)	13	13