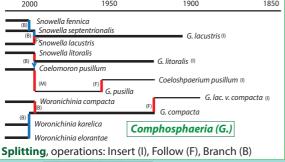


н	Date Operation	old_systcod	e old_genus	old_species old_	subnold_tropold_si	ze systcode genus	species	subname	tropis	lize counting_u	usize_descriptio	ngeometric_sh p	ength1 widt	th I	reight dia	meter1 nr	cells_le	ngth V	rolume i	carbon	Checklist	PEG	Brackish_water_ITIS	auctor
н	2010-05-14 follow	100540	Nodularia	baltica	A	100540 Nodularia	baltica		А	1 filament	6x100µm	Cylinder	100	6	100	6	25	4	2830	458,10	×	×	×	Komárek et al. 1993
н	2010-05-14 update	100540	Nodularia	spp.	A	2 100540 Nodularia	spp.		А	2 filament	6-8x100µm	Cylinder	100	7	100	7	33	3	3850	622,44	×	×	×	
н	2010-05-14 merge	100540	Nodularia	spumigena	A	100540 Nodularia	spumigena		А	3 filament	10-12×100	Cylinder	100	11	100	11	1	4	9500	1428,27	×	×	×	Mertens ex Bornet & Flahault 1886
н	2010-05-14 follow	100540	Nodularia	spumigena	A	4 100540 Nodularia	spumigena		А	21 filament	6-8x196µm	Cylinder	196	7	196	7	1	6	7540	1121,60	×		×	Mertens ex Bornet & Flahault 1886
	2010-05-14 detach					100540 Nodularia	spumigena		А	4 filament	15x100µm	Cylinder	100	15	100	15	1	4.1	17663	2556,95	×	×	×	Mertens ex Bornet & Flahault 1886
н	2010-05-14 follow	250540	Scrippsiella	malmogiense	A	250540 Scrippsiella	malmogiens	c	А	1 cell											×		×	
н	2010-05-14 insert					250540 Scrippsiella	spp.		Α	1 cell	15x17µm	Cone+half s	17	15	17	15	1		1442	199,86	×	×	×	(Schiller) Larsen in Larsen et al. 1995
н	2010-05-14 follow	659005	Scrippsiella	hangoel cyst	t A	659005 Scrippsiella	hangoei	cyst	Α	1 cell	18-20	Sphere	19	19		19	1		3590	470,64	×	×	×	(Schiller) Larsen in Larsen et al. 1995
н	2010-05-14 merge	250540	Scrippsiella	cyst	A	2 659005 Scrippsiella	hangoei	cyst	Α	1 cell	18-20	Sphere	19	19		19	1		3590	470,64	×	×	×	(Schiller) Larsen in Larsen et al. 1995
1	Operation		Old ke	v values		New key	values			No	n kev a	ttribute	S											

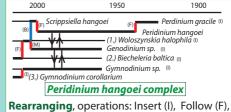
The definition of species and specieslists may change when sampling amd analysis methods improve, alien species apear, new species are found and name aliases are discovered. Here we represend three species with different histories. In the pictures the vertical lines show the fate of a name from the description of a taxon to the pre-

sent. Thick lines indicate the names which have mainly been used. Horizontal red lines indicate that a name has become a synonym, blue lines where splitting has occurred. Arrows indicate confusion or transfer of misplaced parts of a taxon.

The small-celled species of the genus *Comphosphaeria* originally were only a handful. In 1988-1992 a number of new species described and redistributed in the genera Snowella and Woronichinia. A different type of colonies remained in Gomphosphaeria. Until recently, Snowella litoralis and Coelomoron pusillum could not be separated by us.



The springblooming $Scrippsiella\ hangoei\ complex\ comprises\ three\ closely\ similar\ types\ of\ cells\ which\ are\ difficult\ to\ separate\ in\ the$ light microscope. Through cultures and electron microscopy three different species have been sorted out. The arrow towards (1.) indicates that resting spores were initially allocated to the wrong species



Branch (B), Merge (M)

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The morphologically highly variable species *Dinophysis acuminata* has been described several times under different names. Ribosomal nucleic acid sequences, however, show little variability in this part of the genus. Therefore, sequencing is not decisive for the nomy. The large morphological variability indicates that this is one collective species

