

# Erratum to: Comparative Analysis of Phytoplankton Composition and Abundance over a Two-Decade Period at the Land–Ocean Boundary of a Tropical Mangrove Ecosystem

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Published online: 5 December 2009  
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**Erratum to: Estuaries and Coasts**  
**DOI: 10.1007/s12237-009-9193-5**

In the first paragraph on the second to last page of the original article the following species names are corrected as follows:

*Rhizosolenia alata* corrected to *Proboscia alata*  
*Ceratium tripose* corrected to *Ceratium tripos*  
*R. alata* corrected to *P. alata*  
*Rhizosolenia styliformes* corrected to *Rhizosolenia styliformis*

In the second paragraph on the second to last page of the original article the following species names are corrected as follows:

*Ditylum brightwelli* corrected to *Ditylum brightwellii*  
*Leptocylindricus* corrected to *Leptocylindrus*  
*Nitzschia seriata* corrected to *Pseudo-nitzschia sp.*

There were several misspellings in Tables 2 and 3 in the original article. Following are the corrected tables:

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The online version of the original article can be found under  
doi:10.1007/s12237-009-9193-5.

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**Table 2** Phytoplankton composition and their relative abundance RA (%), observed in the Sundarban Mangrove water over two decade period (mean of three stations  $\pm$  standard deviation)

1990		2000		2007	
<i>Amphora hyalina</i>	0.13 $\pm$ 0.04	<i>Amphora hyalina</i>	0.01 $\pm$ 0.017	<i>Amphipleura</i> sp.	1.104 $\pm$ 1.15
<i>Asterionellopsis glacialis</i>	3.97 $\pm$ 0.88	<i>Asterionellopsis glacialis</i>	0.79 $\pm$ 0.280	<i>Amphiprora constricta</i>	0.38 $\pm$ 0.485
<i>Bacillaria paradoxa</i>	0.69 $\pm$ 0.26	<i>Bacillaria paradoxa</i>	0.10 $\pm$ 0.105		
<i>Bacteriastrium hyalinum</i>	0.27 $\pm$ 0.05	<i>Bacteriastrium delicatum</i>	0.38 $\pm$ 0.568	<i>Asterionellopsis glacialis</i>	23.5 $\pm$ 10.51
<i>Odontella regia</i>	2.44 $\pm$ 0.75	<i>Bacteriastrium hyalinum</i>	0.26 $\pm$ 0.456	<i>Bacillaria paradoxa</i>	0.503 $\pm$ 0.71
<i>Odontella sinensis</i>	2.83 $\pm$ 0.96	<i>Ceratium furca</i>	1.72 $\pm$ 1.331	<i>Bacteriastrium</i> sp.	0.125 $\pm$ 0.056
<i>Ceratium tripos</i>	0.25 $\pm$ 0.17	<i>Ceratium tripos</i>	1.88 $\pm$ 1.319	<i>Bellerochea malleus</i>	9.75 $\pm$ 4.36
<i>Chaetoceros curvisetus</i>	2.02 $\pm$ 0.70	<i>Chaetoceros affinis</i>	8.67 $\pm$ 9.451	<i>Ceratium furca</i>	2.09 $\pm$ 2.62
<i>Chaetoceros diversus</i>	2.77 $\pm$ 1.19	<i>Chaetoceros atlanticus</i>	0.12 $\pm$ 0.202	<i>Ceratium fusus</i>	0.154 $\pm$ 0.334
<i>Chaetoceros lorenzianus</i>	0.97 $\pm$ 0.29	<i>Chaetoceros cinctus</i>	0.91 $\pm$ 1.530	<i>Ceratium tripos</i>	0.125 $\pm$ 0.056
<i>Coscinodiscus eccentricus</i>	29.14 $\pm$ 4.65	<i>Chaetoceros curvisetus</i>	0.49 $\pm$ 0.704	<i>Cerataulina pelagica</i>	0.068 $\pm$ 0.151
<i>Coscinodiscus lineatus</i>	6.21 $\pm$ 0.62	<i>Chaetoceros didymus</i>	0.08 $\pm$ 0.139	<i>Chaetoceros curvisetus</i>	0.396 $\pm$ 0.773
<i>Coscinodiscus radiatus</i>	18.28 $\pm$ 3.74	<i>Chaetoceros diversus</i>	0.27 $\pm$ 0.249	<i>Chaetoceros atlanticus</i>	0.92 $\pm$ 1.051
<i>Diploneis</i> sp.	2.26 $\pm$ 0.66	<i>Chaetoceros gracilis</i>	0.08 $\pm$ 0.144	<i>Chaetoceros decipiens</i>	4.523 $\pm$ 4.859
<i>Ditylum brightwellii</i>	3.16 $\pm$ 0.26	<i>Chaetoceros holsaticus</i>	0.73 $\pm$ 1.264	<i>Chaetoceros lorenzianus</i>	1.474 $\pm$ 2.061
<i>Eucampia zodiacus</i>	1.09 $\pm$ 0.77	<i>Chaetoceros laciniatus</i>	0.43 $\pm$ 0.609	<i>Chaetoceros</i> sp.	0.466 $\pm$ 1.012
<i>Gyrosigma</i> sp.	1.01 $\pm$ 0.23	<i>Chaetoceros lorenzianus</i>	0.58 $\pm$ 0.655	<i>Coscinodiscus gigas</i>	0.375 $\pm$ 0.168
<i>Halosphaera viridis</i>	1.26 $\pm$ 0.14	<i>Chaetoceros peruvianus</i>	0.04 $\pm$ 0.075	<i>Coscinodiscus eccentricus</i>	4.592 $\pm$ 3.685
<i>Cylindrotheca closterium</i>	0.75 $\pm$ 0.10	<i>Corethron criophyllum</i>	0.09 $\pm$ 0.114	<i>Coscinodiscus lineatus</i>	2.799 $\pm$ 3.289
<i>Odontella mobiliensis</i>	2.02 $\pm$ 0.55	<i>Coscinodiscus concinnus</i>	1.92 $\pm$ 0.465	<i>Coscinodiscus radiatus</i>	1.691 $\pm$ 1.919
<i>Pleurosigma elongatum</i>	1.37 $\pm$ 0.19	<i>Coscinodiscus eccentricus</i>	8.44 $\pm$ 5.207	<i>Cocconeis</i> sp.	1.196 $\pm$ 2.47
<i>Proboscia alata</i>	3.17 $\pm$ 1.13	<i>Coscinodiscus gigas</i>	1.55 $\pm$ 0.655	<i>Cyclotella</i> sp.	0.357 $\pm$ 0.657
<i>Rhizosolenia hebetata</i>	1.28 $\pm$ 0.44	<i>Coscinodiscus lineatus</i>	1.30 $\pm$ 1.142	<i>Diatoma</i> sp.	0.125 $\pm$ 0.056
<i>Rhizosolenia imbricata</i>	1.86 $\pm$ 0.41	<i>Coscinodiscus radiatus</i>	11.21 $\pm$ 4.974	<i>Dinophysis caudata</i>	0.094 $\pm$ 0.138
<i>Guinardia striata</i>	1.09 $\pm$ 0.34	<i>Cyclotella stylorum</i>	0.03 $\pm$ 0.058	<i>Ditylum brightwellii</i>	0.8 $\pm$ 0.63
Silicoflagellates	4.50 $\pm$ 1.32	<i>Dinophysis caudata</i>	0.06 $\pm$ 0.110	<i>Eucampia zodiacus</i>	0.084 $\pm$ 0.118
<i>Skeletonema</i> cf. <i>costatum</i>	1.42 $\pm$ 0.57	<i>Ditylum brightwellii</i>	4.75 $\pm$ 2.320		
<i>Thalassionema nitzschioides</i>	1.77 $\pm$ 0.23	<i>Eucampia zodiacus</i>	0.32 $\pm$ 0.172	<i>Guinardia flaccida</i>	0.607 $\pm$ 0.942
<i>Thalassiosira decipiens</i>	1.94 $\pm$ 0.38	<i>Fragilaria</i> sp.	0.70 $\pm$ 1.212	<i>Gyrosigma</i> sp.	0.139 $\pm$ 0.184
		<i>Guinardia flaccida</i>	0.66 $\pm$ 1.143	<i>Halosphaera</i> sp.	0.625 $\pm$ 0.28
		<i>Gyrosigma</i> sp.	0.15 $\pm$ 0.142	<i>Lauderia annulata</i>	1.193 $\pm$ 1.347
		<i>Halosphaera viridis</i>	0.09 $\pm$ 0.090	<i>Leptocylindrus danicus</i>	0.955 $\pm$ 0.962
		<i>Hemiaulus sinensis</i>	0.23 $\pm$ 0.398	<i>Leptocylindrus minimus</i>	1.404 $\pm$ 2.159
		<i>Lauderia annulata</i>	2.48 $\pm$ 4.290	<i>Melosira granulata</i>	0.26 $\pm$ 0.518
		<i>Melosira nummuloides</i>	1.98 $\pm$ 1.897	<i>Melosira varians</i>	0.578 $\pm$ 0.993
		<i>Navicula rhombica</i>	1.18 $\pm$ 0.962	<i>Navicula rhombica</i>	1.413 $\pm$ 1.57
		<i>Nitzschia longissima</i>	0.34 $\pm$ 0.361	<i>Nitzschia longissima</i>	3.0 $\pm$ 4.318
		<i>Pseudo-nitzschia</i> sp.	0.77 $\pm$ 0.970	<i>Pseudo-nitzschia</i> sp.	3.111 $\pm$ 1.906
		<i>Cylindrotheca closterium</i>	0.21 $\pm$ 0.226	<i>Nitzschia sigma</i>	0.884 $\pm$ 0.991
		<i>Nitzschia spatulata</i>	0.03 $\pm$ 0.058	<i>Odontella mobiliensis</i>	0.190 $\pm$ 0.188
		<i>Odontella mobiliensis</i>	0.30 $\pm$ 0.156	<i>Odontella sinensis</i>	0.68 $\pm$ 0.292

**Table 2** (continued)

1990	2000	2007
	<i>Odontella regia</i>	0.31±0.108
	<i>Odontella sinensis</i>	1.33±0.131
	<i>Paralia sulcata</i>	1.24±0.860
	<i>Planktoniella blanda</i>	1.33±1.066
	<i>Planktoniella sol</i>	0.07±0.121
	<i>Pleurosigma elongatum</i>	3.97±0.811
	<i>Proboscia alata</i>	2.70±2.238
	<i>Rhizosolenia styliiformis</i>	4.00±2.001
	<i>Schuetzia annulata</i>	0.14±0.242
	<i>Skeletonema</i> cf. <i>costatum</i>	12.66±10.237
	<i>Surirella striata</i>	0.02±0.040
	<i>Synedra hennedyana</i>	3.64±0.858
	<i>Thalassionema nitzschioides</i>	1.50±1.005
	<i>Thalassiosira leptopus</i>	1.47±0.492
	<i>Thalassiosira subtilis</i>	3.34±3.245
	<i>Thalassiothrix</i> sp.	3.50±2.544
	<i>Trichodesmium</i> sp.	2.76±3.384
	<i>Paralia sulcata</i>	1.642±3.422
	<i>Pinnularia</i> sp.	2.02±2.809
	<i>Planktoniella blanda</i>	0.989±2.039
	<i>Planktoniella sol</i>	1.317±1.929
	<i>Pleurosigma</i> sp.	2.367±2.034
	<i>Porocentrum micans</i>	0.135±0.302
	<i>Protoperidinium</i> sp.	0.877±0.832
	<i>Rhizosolenia cylindrus</i>	0.278±0.442
	<i>Rhizosolenia hebetata</i>	0.515±1.152
	<i>Rhizosolenia setigera</i>	0.972±1.065
	<i>Rhizosolenia styliiformis</i>	0.527±0.644
	<i>Schuetzia annulata</i>	1.027±2.029
	<i>Skeletonema</i> cf. <i>costatum</i>	18.952±24.54
	<i>Synedra</i> sp.	1.687±3.389
	<i>Thalassionema</i> sp.	1.738±1.713
	<i>Thalassiosira decipiens</i> (small cell in chain)	5.764±5.788
	<i>Thalassiosira hyalina</i> (large cell in chain)	2.733±4.47
	<i>Thalassiothrix</i> sp.	5.499±7.052
	<i>Thalassiosira subtilis</i>	3.538±7.364

**Table 3** Decadal changes of individual biovolume (million  $\mu\text{m}^3 \text{ cell}^{-1}$ ), total biovolume ( $\text{mm}^3 \text{ L}^{-1}$ ), and bloom forming months with bloom level (biovolume  $\geq 2 \text{ mm}^3 \text{ L}^{-1}$ ) of some diatom species (relative abundance, RA: 0.37–29.14 %)

1990	Name of diatom species (RA %)	Bloom forming month	Individual biovolume	Total biovolume	Bloom level
1	<i>Coscinodiscus eccentricus</i> (29.14)	Jan, Feb, Aug, Sept	0.103	0.165	0.082
2	<i>Coscinodiscus radiatus</i> (18.28)	Jan, Feb, Mar, Oct	0.152	0.152	0.076
3	<i>Proboscia alata</i> (3.17)	Nov, Dec	0.296	0.052	0.026
4	<i>Ditylum brightwellii</i> (3.16)	April	0.200	0.035	0.017
5	<i>Odontella sinensis</i> (2.83)	Nov, Dec	0.150	0.023	0.012
6	<i>Pleurosigma elongatum</i> (1.37)	Sept	0.601	0.005	0.002
2000					
1	<i>Coscinodiscus radiatus</i> (11.21)	Dec, Jan, Feb	0.111	3.24	1.62
2	<i>Chaetoceros affinis</i> (8.67)	Feb	0.194	3.43	1.71
3	<i>Coscinodiscus eccentricus</i> (8.44)	Jan, Feb	0.623	3.34	4.85
4	<i>Ditylum brightwellii</i> (4.75)	Dec	0.123	4.92	2.46
5	<i>Pleurosigma elongatum</i> (3.97)	Dec	0.043	3.38	1.69
6	<i>Thalassiosira subtilis</i> (3.34)	Dec, Jan	0.154	3.02	1.51
7	<i>Proboscia alata</i> (2.7)	Feb	0.055	3.11	1.55
8	<i>Lauderia annulata</i> (2.48)	Dec	0.019	3.24	1.62
9	<i>Coscinodiscus gigas</i> (1.55)	Dec	0.613	3.81	1.91
10	<i>Coscinodiscus concinnus</i> (1.92)	Dec, Feb	0.590	3.34	1.67
2007					
1	<i>Asterionellopsis glacialis</i> (23.5)	Jan	0.067	0.24	0.121
2	<i>Skeletonema cf. costatum</i> (18.95)	Jan	0.003	0.004	0.014
3	<i>Thalassiosira hyalina</i> (2.73)	Jan	0.037	4.30	1.365
4	<i>Pinnularia</i> sp. (2.37)	Jan	4.187	1.82	0.908
5	<i>Pleurosigma elongatum</i> (2.02)	Jan	5.214	1.23	0.617
6	<i>Coscinodiscus radiatus</i> (1.69)	Jan, March	1.624	3.89	0.62–1.62
7	<i>Bacillaria</i> sp. (1.5)	March	5.275	1.21	0.607
8	<i>Protoperidinium</i> sp. (0.87)	Jan	4.106	1.62	0.81
9	<i>Ditylum brightwellii</i> (0.8)	Jan	9.972	1.97	0.984
10	<i>Coscinodiscus gigas</i> (0.37)	Dec, March	9.036	1.46	0.729
11	<i>Coscinodiscus eccentricus</i> (4.59)	Dec	1.11	1.99	0.997