

Supplementary Material

A new approach for identification of the genus *Paralia* (Bacillariophyta) in Korea based on morphology and morphometric analyses

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Supplementary Table S1. Collection site information of the *Paralia* specimens examined in the present study

No.	Sampling date	Sampling location	Latitude (N)	Longitude (E)	<i>P.fenestrata</i>	<i>P.guyana</i>	<i>P.sulcata</i>	<i>P.marina</i>	<i>P.cf.obscura</i>
1	Apr 2006	West Sea, Incheon coastal water	37°23'02"	126°31'59"	-	-	*	-	-
2	Aug 2006	West Sea, Incheon coastal water	37°23'02"	126°31'59"	-	-	*	-	-
3	Feb 2008	West Sea, Incheon coastal water	37°27'33"	126°33'56"	*	-	*	-	-
4	Dec 2008	South sea, Nurokdo Is.	34°20'53"	125°57'34"	-	-	*	-	-
5	Dec 2008	South sea, Jujido Is.	34°29'07"	126°05'10"	-	-	*	-	-
6	Jan 2009	East Sea, Jungdongjin Beach	37°41'10"	129°02'25"	-	-	*	-	-
7	Jan 2009	East Sea, Oho-ri coastal water	38°19'33"	128°31'44"	-	-	*	-	-
8	Jan 2009	East Sea, Samcheok Port	37°26'33"	129°11'33"	-	-	*	*	-
9	Jan 2009	East Sea, Naksan Port	38°07'24"	128°37'57"	*	-	-	-	-
10	Jan 2009	East Sea, Jangsa Beach	36°16'51"	129°22'36"	-	-	-	*	-
11	Jan 2009	East Sea, Giseong Mangyang Beach	36°51'09"	129°25'40"	-	-	-	*	-
12	Jan 2009	East Sea, Giseong Mangyang Beach	36°58'18"	129°24'28"	-	-	-	*	-
13	Jan 2009	East Sea, Guryongpo Port	35°59'05"	129°33'11"	*	-	-	-	-
14	Jan 2009	East Sea, Dogu Beach	35°59'50"	129°27'29"	*	-	-	-	-
15	Jan 2009	East Sea, Yeongildae Beach	36°03'27"	129°22'43"	-	-	-	*	-
16	Jan 2009	East Sea, Homigot cape	36°04'48"	129°33'36"	*	-	-	-	-
17	Feb 2009	South sea, Gwangan br.	35°08'19"	129°06'52"	-	-	*	-	-
18	Feb 2009	South sea, Ilgwang Beach	35°21'19"	129°21'15"	-	-	*	-	-
19	Feb 2009	East Sea, Gampo Port	35°48'28"	129°30'17"	-	-	*	-	-
20	Feb 2009	East Sea, Jungja-dong coastal water	35°41'35"	129°28'31"	*	-	*	-	-
21	Feb 2009	East Sea, Pyeongdong breakwater	35°21'19"	129°21'15"	-	-	*	-	-
22	Feb 2009	East Sea, Yangpo Beach	38°13'12"	128°35'24"	-	-	*	-	-
23	Feb 2010	West Sea, Incheon coastal water	37°28'26"	126°34'59"	-	-	*	-	-
24	Feb 2010	West Sea, Incheon coastal water	37°24'08"	126°31'45"	-	-	*	-	-
25	Feb 2010	West Sea, Incheon coastal water	37°24'54"	126°34'50"	*	*	*	*	-

Supplementary Table S1. Continued

No.	Sampling date	Sampling location	Latitude (N)	Longitude (E)	<i>P.fenestrata</i>	<i>P.guyana</i>	<i>P.sulcata</i>	<i>P.marina</i>	<i>P.cf.obscura</i>
26	Jul 2010	West Sea, Saemangeum dike	35°43'40"	126°31'46"	-	-	*	-	-
27	Jul 2010	West Sea, Daehang-ri coastal water	35°41'17"	126°31'55"	*	-	*	-	-
28	Jul 2010	West Sea, Hanjin dock	36°58'15"	126°46'60"	*	-	-	-	*
29	Jul 2010	West Sea, Boryung Port	36°19'41"	126°30'36"	-	-	*	-	-
30	Jul 2010	West Sea, Jeokbyeok Port	35°38'17"	126°27'46"	-	-	*	-	-
31	Jul 2010	West Sea, Samgilpo Port	37°00'12"	126°27'11"	-	-	*	-	-
32	Jul 2010	West Sea, Dasa Port	36°05'52"	126°36'52"	*	-	-	-	-
33	Jul 2010	West Sea, Janghang Port	36°00'05"	126°52'11"	-	-	*	-	-
34	Jul 2010	West Sea, Oido dock	37°19'31"	126°39'18"	*	-	-	-	-
35	Jul 2010	West Sea, Gung-ri Port	37°35'34"	126°27'12"	*	-	-	*	-
36	Jul 2010	West Sea, Gungpyeong Port	37°06'33"	126°41'10"	*	-	-	-	-
37	Jul 2010	West Sea, Jeongok Port	37°11'23"	126°39'09"	*	-	-	-	-
38	Aug 2010	East Sea, Susan Port	38°04'38"	128°40'26"	-	-	*	-	-
39	Aug 2010	East Sea, Ganggu Port	36°21'33"	129°23'25"	-	-	*	-	-
40	Aug 2010	East Sea, Daetan Port	36°26'30"	129°26'00"	-	-	*	-	-
41	Aug 2010	East Sea, Jangsa Beach	36°16'51"	129°22'36"	-	-	*	-	-
42	Aug 2010	East Sea, Chuksan Port	36°30'30"	129°26'57"	-	-	-	-	*
43	Aug 2010	East Sea, Gongse Port	36°59'05"	129°24'38"	-	-	-	*	-
44	Aug 2010	East Sea, Gusan Port	36°45'37"	129°28'20"	-	-	-	*	-
45	Aug 2010	East Sea, Giseong Mangyang Beach	36°51'09"	129°25'39"	-	-	-	*	-
46	Oct 2010	West Sea, Woryeon-ri coastal water	35°53'11"	126°43'39"	*	-	*	-	-
47	Oct 2010	West Sea, Gunsan port	35°58'11"	126°37'02"	-	-	*	*	-
48	Oct 2010	West Sea, Geumgwang-ri coastal water	35°53'21"	126°46'01"	-	*	-	-	-
49	Oct 2010	West Sea, Seonyeon-ri coastal water	35°53'09"	126°37'44"	*	-	*	*	-
50	Oct 2010	West Sea, Unjeong-ri coastal water	36°53'23"	126°49'34"	-	-	*	-	*
51	Oct 2010	West Sea, Anseong-ri coastal water	35°47'14"	126°44'53"	-	-	*	*	-
52	Oct 2010	West Sea, Gyehwa-ri coastal water	35°47'43"	126°38'33"	-	-	-	-	*
53	Oct 2010	West Sea, Oido dock	37°20'44"	126°41'16"	-	-	*	-	*
54	Oct 2010	West Sea, Wolgot dock	37°23'14"	126°44'25"	*	-	-	-	*
55	Oct 2010	West Sea, Pyeongtaek Port	36°57'40"	126°50'00"	-	-	-	-	*
56	Oct 2010	West Sea, Gwongwan-ri coastal water	36°55'02"	126°54'24"	-	-	*	-	*
57	Nov 2010	South sea, Sin-gi-ri coastal water	34°31'41"	126°46'23"	-	-	-	-	*
58	Nov 2010	South sea, Haegeumgang coastal water	34°44'09"	128°40'31"	-	-	*	-	-
59	Dec 2010	West Sea, Incheon coastal water	37°28'26"	126°34'59"	-	-	*	-	-
60	Dec 2010	West Sea, Incheon coastal water	37°24'08"	126°31'45"	-	-	*	*	*

Supplementary Table S1. Continued

No.	Sampling date	Sampling location	Latitude (N)	Longitude (E)	<i>P.fenestrata</i>	<i>P.guyana</i>	<i>P.sulcata</i>	<i>P.marina</i>	<i>P.cf.obscura</i>
61	Dec 2010	West Sea, Incheon coastal water	37°24'54"	126°34'50"	-	*	*	-	-
62	Feb 2011	West Sea, Malipo Beach	36°47'11"	126°08'22"	-	-	*	-	-
63	Feb 2011	West Sea, Baeksajang Port	36°43'33"	126°08'00"	-	-	*	-	-
64	Feb 2011	West Sea, Hagampo Beach	36°53'50"	126°12'10"	*	-	-	*	*
65	Apr 2011	West Sea, Jangmi-dong coastal water	36°59'20"	126°43'05"	*	-	*	-	-
66	Apr 2011	West Sea, Saemangeum dike	35°41'55"	126°33'19"	-	-	*	-	-
67	Apr 2011	West Sea, Yami Is.	35°50'29"	126°29'21"	-	*	-	-	-
68	Apr 2011	West Sea, Busu-ri coastal water	36°54'36"	126°48'54"	-	-	*	-	-
69	Apr 2011	West Sea, Malipo Beach	36°47'11"	126°08'22"	-	-	*	-	-
70	Apr 2011	West Sea, Baramarae Beach	36°24'34"	126°22'30"	*	-	-	-	-
71	Apr 2011	West Sea, Hagampo Beach	36°53'50"	126°12'10"	*	-	-	-	-
72	Jun 2011	South sea, Haeguimgang coastal water	34°44'09"	128°40'34"	-	-	*	-	-
73	Jun 2011	West Sea, Yulpo-ri dock	34°40'03"	127°05'49"	-	-	-	-	*
74	Jun 2011	West Sea, Mokpo coastal water	34°37'38"	127°38'34"	*	-	-	-	-
75	Jul 2011	West Sea, Malipo Beach	36°47'11"	126°08'22"	-	-	-	*	-
76	Jul 2011	West Sea, Pado-ri Beach	36°44'06"	126°08'19"	-	-	*	-	-
77	Oct 2011	West Sea, Hagampo Beach	36°53'50"	126°12'10"	-	-	-	*	*
78	May 2012	West Sea, Baramarae Beach	36°24'34"	126°22'30"	-	-	*	-	-
79	Oct 2012	West Sea, Pado-ri Beach	36°34'33"	126°18'38"	-	-	*	-	-
80	Oct 2012	West Sea, Hagampo Beach	36°53'50"	126°12'10"	*	-	-	-	-
81	Jan 2013	West Sea, Incheon coastal water	37°26'50"	126°34'51"	-	*	*	*	-
82	May 2013	South Sea, Bogil Is.	34°08'12"	126°28'18"	-	-	*	-	-
83	May 2013	West Sea, Gageo Is.	34°02'42"	125°09'48"	-	-	*	-	-
84	May 2013	Jeju Is., Ieo Is.	32°09'12"	125°10'06"	-	-	*	-	-
85	Nov 2013	South sea, Nabaedo dock	34°18'38"	126°49'08"	*	-	*	-	*
86	Jan 2014	South sea, Mipo Port	35°32'35"	129°27'13"	-	*	*	*	-
87	Jan 2014	South sea, Mipo Port	35°32'33"	129°27'16"	-	*	-	-	-
88	Jan 2014	South sea, Mipo Port	35°32'30"	129°27'16"	-	*	-	-	-
89	Jan 2014	South sea, Yeosu	34°45'20"	127°39'46"	-	*	*	-	-
90	Jan 2014	South sea, Yeosu	34°45'19"	127°39'41"	-	*	*	*	-
91	Mar 2014	West Sea, Hanjin dock	36°58'15"	126°46'60"	-	-	*	-	-
92	Apr 2015	West Sea, Daechong Is.	37°47'31"	124°40'54"	-	-	*	*	-
93	Apr 2015	West Sea, Baengnyeong Is.	37°55'44"	124°42'06"	-	*	*	*	-
94	Apr 2015	West Sea, Socheong Is.	37°48'10"	124°39'29"	-	*	*	-	-
Total					24	12	60	22	14

Asterisks indicate the site where each species appear.