

附录I 中国主要海草场信息

Appendix I Information about the important current seagrass meadows in China

序号 No.	海草场 Seagrass meadows	面积(ha) Cover area	主要种类 Main species	文献来源 References
海南 Hainan		5634.2		
1	文昌市高隆湾 Gaolong Bay, Wenchang	3158 (文昌全市, 椰林湾除外)	泰来藻、二药藻、海菖蒲、喜盐草	王道儒等, 2012
2	文昌市港东村 Gangdong Village, Wenchang	Wenchang except Yelin Bay)	泰来藻、海菖蒲、喜盐草	王道儒等, 2012
3	文昌市长圯港 Changpi Harbor, Wenchang		泰来藻、海菖蒲、二药藻、喜盐草、小喜盐草	王道儒等, 2012
4	文昌市宝峙村 Baoshi Village, Wenchang		泰来藻、二药藻、丝粉藻、喜盐草、针叶藻、齿叶丝粉藻	王道儒等, 2012
5	文昌市冯家湾 Fengjia Bay, Wenchang		泰来藻、海菖蒲、喜盐草、二药藻、齿叶丝粉藻	王道儒等, 2012
6	文昌市椰林湾 Yelin Bay, Wenchang	101.2	泰来藻、丝粉藻、喜盐草	郭振仁等, 2009
7	琼海市青葛 Qingge, Qionghai	1596 (琼海市 Qionghai)	泰来藻、海菖蒲、丝粉藻、喜盐草(<i>H. ovalis</i>)、二药藻	王道儒等, 2012
8	琼海市龙湾 Long Bay, Qionghai		海菖蒲、泰来藻、丝粉藻	王道儒等, 2012
9	琼海市潭门 Tanmen, Qionghai		泰来藻、喜盐草、丝粉藻、二药藻、针叶藻	王道儒等, 2012
10	三亚市后海湾 Houhai Bay, Sanya	164 (三亚市 Sanya)	泰来藻、丝粉藻	王道儒等, 2012
11	三亚市铁炉港 Tielu Harbor, Sanya		海菖蒲、喜盐草	王道儒等, 2012
12	澄迈市花场湾 Huachang Bay, Chengmai	40	羽叶二药藻、贝克喜盐草	王道儒等, 2012
13	陵水县黎安港 Li'an Lagoon, Lingshui	574 (陵水县 Lingshui)	海菖蒲、泰来藻、丝粉藻、喜盐草	王道儒等, 2012
14	陵水县新村港 Xincun Lagoon, Lingshui		海菖蒲、泰来藻、丝粉藻、喜盐草、二药藻、小喜盐草、矮大叶藻	王道儒等, 2012; 作者调查
15	万宁市 Wanning	1	二药藻、喜盐草	王道儒等, 2012; den Hartog & Yang, 1990
16	东方市 Dongfang	面积不详 Unclear	二药藻	den Hartog & Yang, 1990
17	海口市 Haikou	面积不详 Unclear	矮大叶藻、贝克喜盐草、二药藻、喜盐草	den Hartog & Yang, 1990
18	西沙群岛(晋卿岛) Xisha Islands (Jinqing Island)	面积不详 Unclear	全楔草、泰来藻、喜盐草	den Hartog & Yang, 1990
19	南沙群岛(太平岛等) Nansha Islands (Taiping Island, etc.)	面积不详 Unclear	种类不详	Dai & Fan, 1996
广西 Guangxi		942.2		
20	北海市铁山港沙背 Shabei, Tieshangang, Beihai	283.1	喜盐草、矮大叶藻、小喜盐草、贝克喜盐草	范航清等, 2011
21	北海市铁山港北暮 Beimu, Tieshangang, Beihai	170.1	喜盐草、矮大叶藻、小喜盐草、贝克喜盐草	范航清等, 2011
22	北海市山口乌坭 Wuni, Shankou, Beihai	94.1	喜盐草	范航清等, 2011
23	北海市铁山港下龙尾 Xialongwei, Tieshangang, Beihai	79.1	喜盐草、矮大叶藻、贝克喜盐草、小喜盐草	范航清等, 2011
24	北海市铁山港川江 Chuanjiang, Tieshangang, Beihai	73.3	喜盐草、二药藻	范航清等, 2011
25	防城港市交东(珍珠湾) Jiaodong, Fangchenggang (Pearl Bay)	41.6	矮大叶藻、贝克喜盐草	范航清等, 2011
26	北海市沙田山寮 Shanliao, Shatian, Beihai	14.3	矮大叶藻	范航清等, 2011

序号 No.	海草场 Seagrass meadows	面积(ha) Cover area	主要种类 Main species	文献来源 References	
27	钦州市纸宝岭 Zhibaoaling, Qinzhou	10.7	贝克喜盐草	<i>H. beccarii</i>	范航清等, 2011
28	北海市山口丹兜 Dandou, Shankou, Beihai	10.7	贝克喜盐草	<i>H. beccarii</i>	范航清等, 2011
29	其他零星分布点 Others	165.2	喜盐草、矮大叶藻、贝克喜盐草等	<i>H. ovalis</i> , <i>Z. japonica</i> , <i>H. beccarii</i> , ect.	范航清等, 2011
广东 Guangdong		975			
30	湛江市流沙湾 Liusha Bay, Zhanjiang	900	喜盐草、二药藻	<i>H. ovalis</i> , <i>H. uninervis</i>	黄小平等, 2007
31	潮州市饶平柘林湾 Zhelin Bay, Raoping, Chaozhou	40	喜盐草	<i>H. ovalis</i>	黄小平等, 2010
32	湛江市东海岛 Donghai Island, Zhanjiang	9	贝克喜盐草	<i>H. beccarii</i>	黄小平等, 2007
33	珠海市唐家湾 Tangjia Bay, Zhuhai	7.6	贝克喜盐草	<i>H. beccarii</i>	黄小平等, 2010
34	台山市上川岛 Shangchuan Island, Taishan	7	矮大叶藻	<i>Z. japonica</i>	黄小平等, 2010
35	惠东县考洲洋 Kaozhouyang, Huidong	6.95	喜盐草	<i>H. ovalis</i>	黄小平等, 2010
36	阳江市海陵岛 Hailing Island, Yangjiang	1	喜盐草	<i>H. ovalis</i>	黄小平等, 2007
37	台山市下川岛 Xiachuan Island, Taishan	1	矮大叶藻、贝克喜盐草	<i>Z. japonica</i> , <i>H. beccarii</i>	黄小平等, 2010
38	汕尾市白沙湖 Baishahu, Shanwei	<1	喜盐草	<i>H. ovalis</i>	黄小平等, 2010
39	深圳市大亚湾 Daya Bay, Shenzhen	<1	喜盐草	<i>H. ovalis</i>	黄小平等, 2010
40	雷州市企水湾 Qishui Bay, Leizhou	<1	喜盐草	<i>H. ovalis</i>	黄小平等, 2010
41	湛江市礮洲岛 Naozhou Island, Zhanjiang	面积不详 Unclear	喜盐草	<i>H. ovalis</i>	den Hartog & Yang, 1990
42	汕尾市海丰县 Haifeng, Shanwei	面积不详 Unclear	矮大叶藻	<i>Z. japonica</i>	den Hartog & Yang, 1990
香港 Hong Kong		4			
43	元朗区下白泥 Ha Pak Nai, Yuen Long District	4	贝克喜盐草	<i>H. beccarii</i>	Fong, 2000
44	其他分布点(荔枝窝、印洲塘、三桠涌、大潭湾、散头等) Others (Lai Chi Wo, Yan Chau Tong, Sam A Chung, Tai Tam Bay, San Tau, etc.)	面积不详 Unclear	矮大叶藻、喜盐草、小喜盐草、贝克喜盐草	<i>Z. japonica</i> , <i>H. ovalis</i> , <i>H. minor</i> , <i>H. beccarii</i>	Fong, 2000; Yip & Lai, 2006
福建 Fujian					
45	晋江市 Jinjiang	面积不详 Unclear	矮大叶藻	<i>Z. japonica</i>	den Hartog & Yang, 1990
46	厦门市 Xiamen	面积不详 Unclear	矮大叶藻	<i>Z. japonica</i>	den Hartog & Yang, 1990
47	漳州市东山岛 Dongshan Island, Zhangzhou	面积不详 Unclear	矮大叶藻	<i>Z. japonica</i>	den Hartog & Yang, 1990
台湾 Taiwan		820.7			
48	东沙岛 Tongsha Island	820	泰来藻、丝粉藻、齿叶丝粉藻、针叶藻、二药藻、喜盐草、全楔草	<i>T. hemprichii</i> , <i>C. rotundata</i> , <i>C. serrulata</i> , <i>S. isoetifolium</i> , <i>H. uninervis</i> , <i>H. ovalis</i> , <i>T. ciliatum</i>	柯智仁, 2004 ^① ; Lin et al., 2005
49	屏东市恒春半岛南湾 Nanwan, Hengchun Peninsular, Pingtung	0.4	泰来藻、二药藻	<i>T. hemprichii</i> , <i>H. uninervis</i>	Lin & Shao, 1998; Kuo & Lin, 2010
50	屏东市恒春半岛大光 Dakwan, Hengchun Peninsular, Pingtung	0.3	泰来藻	<i>T. hemprichii</i>	Lin & Shao, 1998; Kuo & Lin, 2010
51	澎湖列岛(分布于歧头、镇海、沙港、讲美等地) Penghu Islands (Chihtou, Chenhai, Shiakang, Chiangmei, etc.)	面积不详 Unclear	喜盐草、矮大叶藻、二药藻	<i>H. ovalis</i> , <i>Z. japonica</i> , <i>H. uninervis</i>	Yang et al., 2002 柯智仁, 2004 ^①
52	绿岛 Lutao Island	面积不详 Unclear	泰来藻	<i>T. hemprichii</i>	Yang et al., 2002 柯智仁, 2004 ^①
53	小琉球岛 Hsiaoliuchiu Island	面积不详 Unclear	泰来藻、二药藻	<i>T. hemprichii</i> , <i>H. uninervis</i>	Yang et al., 2002 柯智仁, 2004 ^①
54	金门岛(分布于浯江口、慈湖—南山等地) Kinmen Island (Wu river mouth, Cihu - Nanshan, etc.)	面积不详 Unclear	矮大叶藻	<i>Z. japonica</i>	柯智仁, 2004 ^①

① Ko CJ (柯智仁) (2004) 台湾海草分类与分布之研究. "中山大学"硕士学位论文, 高雄.

序号 No.	海草场 Seagrass meadows	面积(ha) Cover area	主要种类 Main species	文献来源 References	
55	台湾本岛其他海域(位于屏东市海口、后湾、万里桐, 新竹市香山, 台中市高美, 嘉义市白水湖, 台南市七股, 台东市小港等地) Others in the main island (Haikou, Houwan and Wanlitung, Pingtung; Hsiangshan, Hsinchu; Kaomei, Taichung, Baishuihu, Chiayi; Qigu, Tainan; Hsiaokang, Taichung, etc.)	面积不详 Unclear	矮大叶藻、贝克喜盐草、喜盐草、泰来藻、羽叶二叶藻、二叶藻、毛叶喜盐草	<i>Z. japonica</i> , <i>H. beccarii</i> , <i>H. ovalis</i> , <i>T. hemprichii</i> , <i>H. pini-folia</i> , <i>H. uninervis</i> , <i>Halophila decipiens</i>	Yang <i>et al.</i> , 2002 柯智仁, 2004 ^①
山东 Shandong		289			
56	荣成市月湖(或天鹅湖) Yue Lagoon (Swan Lagoon), Rongcheng	191	大叶藻、矮大叶藻	<i>Z. marina</i> , <i>Z. japonica</i>	刘炳舰, 2012 ^②
57	荣成市桑沟湾 Sanggou Bay, Rongcheng	60	大叶藻、丛生大叶藻、矮大叶藻、红纤维虾海藻	<i>Z. marina</i> , <i>Z. caespitosa</i> , <i>Z. japonica</i> , <i>Phyllospadix iwaten-sis</i>	高亚平等, 2010; 郭栋等, 2010 郭栋等, 2010
58	荣成市俚岛湾 Lidao Bay, Rongcheng	30	大叶藻、丛生大叶藻、黑纤维虾海藻、红纤维虾海藻	<i>Z. marina</i> , <i>Z. caespitosa</i> , <i>P. japonicus</i> , <i>P. iwaten-sis</i>	郭栋等, 2010
59	威海市区双岛湾 Shuangdao Bay, Weihai	5	大叶藻、红纤维虾海藻	<i>Z. marina</i> , <i>P. iwaten-sis</i>	作者调查
60	烟台市区担子岛、玉岱山 Danzi Island and Yudai Hill, Yantai	<1	大叶藻、丛生大叶藻	<i>Z. marina</i> , <i>Z. caespitosa</i>	江鑫等, 2012; 作者调查
61	莱州市莱州湾 Laizhou Bay, Laizhou	<1	大叶藻	<i>Z. marina</i>	徐宗军等, 2010; 作者调查
62	东营市垦利县 Kenli County, Dongying	<1	大叶藻	<i>Z. marina</i>	郭栋等, 2010; 作者调查
63	青岛市区(汇泉湾、青岛湾等) Huiquan Bay and Qingdao Bay, Qingdao	面积不详 Unclear	大叶藻、矮大叶藻、丛生大叶藻、红纤维虾海藻、黑纤维虾海藻	<i>Z. marina</i> , <i>Z. japonica</i> , <i>Z. caespitosa</i> , <i>P. iwaten-sis</i> , <i>P. japonicus</i>	郭栋等, 2010; 刘炳舰, 2012 ^②
64	其他分布点(分布于潍坊市的寿光, 烟台市的龙口和长岛县, 威海市的石岛与乳山, 青岛市的崂山与胶南岛, 以及日照市的石臼所等) Others (Shouguang, Weifang; Longkou and Changdao, Yantai; Laoshan and Jiaonan Island, Qingdao; Shijiusuo, Rizhao, etc.)	面积不详 Unclear	大叶藻、矮大叶藻、丛生大叶藻、红纤维虾海藻	<i>Z. marina</i> , <i>Z. japonica</i> , <i>Z. caespitosa</i> , <i>P. iwaten-sis</i>	den Hartog & Yang, 1990
河北 Hebei					
65	秦皇岛市北戴河 Beidaihe, Qinghuangdao	面积不详 Unclear	大叶藻、丛生大叶藻、矮大叶藻	<i>Z. marina</i> , <i>Z. caespitosa</i> , <i>Z. japonica</i>	den Hartog & Yang, 1990
辽宁 Liaoning		100			
66	大连市长海县樟子岛、海洋岛 Zhangzi Island and Haiyang Island, Changhai, Dalian	100	大叶藻、丛生大叶藻	<i>Z. marina</i> , <i>Z. caespitosa</i>	作者调查
67	葫芦岛市兴城市 Xingcheng, Huludao	面积不详 Unclear	大叶藻	<i>Z. marina</i>	den Hartog & Yang, 1990
合计 Total		8,765.1			

① Ko CJ (柯智仁) (2004) 台湾海草分类与分布之研究. “中山大学”硕士学位论文, 高雄.

② Liu BJ (刘炳舰) (2012) 山东典型海湾大叶藻资源调查与生态恢复的基础研究. 中国科学院海洋研究所硕士学位论文, 青岛.

附录I中的文献 Literatures cited in Appendix I:

- Dai CF, Fan TY (1996) Coral fauna of Taiping Island (Itu Aba Island) in the Spratlys of the South China Sea. *Atoll Research Bulletin*, **436**, 1–21.
- den Hartog C, Yang ZD (1990) A catalogue of the seagrasses of China. *Chinese Journal of Oceanology and Limnology*, **8**, 74–91.
- Fan HQ (范航清), Qiu GL (邱广龙), Shi YJ (石雅君), Li S (李森) (2011) *Studies on Physiological Ecology of Seagrasses in Subtropical China* (中国亚热带海草生理生态学研究). Science Press, Beijing. (in Chinese)
- Fong TCW (2000) Problems and prospects of seagrass conservation and management in Hong Kong and China. In: *Proceedings of the International Symposium on Protection and Management of Coastal Marine Ecosystems*, pp. 250–254, Bangkok, Thailand.
- Gao YP (高亚平), Fang JG (方建光), Zhang JH (张继红), Mao YZ (毛玉泽), Du MR (杜美荣), Liu DH (刘顶海) (2010) Study on sexual reproductive characteristics of eelgrass *Zostera marina* L. in Sanggou Bay. *Progress in Fishery Sciences* (渔业科学进展), **31**(4), 53–58. (in Chinese with English abstract)
- Guo D (郭栋), Zhang PD (张沛东), Zhang XM (张秀梅), Li WT (李文涛), Zhang XJ (张新军), Yuan YD (原永党) (2010) Preliminary investigation and study on seagrass species of inshore areas in Shandong Province. *Transactions of Oceanology and Limnology* (海洋湖沼通报), **2**, 17–21. (in Chinese with English abstract)
- Guo ZR (郭振仁), Huang DJ (黄道建), Huang ZG (黄正光), Qi SB (綦世斌), Yu XJ (于锡军) (2009) Study on investigation and evolution of sea-grass bed in Yelin Bay of Hainan Province. *Marine Environmental Science* (海洋环境科学), **28**, 706–709. (in Chinese with English abstract)
- Huang XP (黄小平), Huang LM (黄良民) (2007) *Seagrass Beds Investigations in South China Sea, China* (中国南海海草研究). Guangdong Economy Press, Guangzhou. (in Chinese)
- Huang XP (黄小平), Jiang ZJ (江志坚), Zhang JP (张景平), Shi Z (施震), Wang F (汪飞), Ye F (叶丰), Li L (李磊) (2010) Newly discovered seagrass beds in the coastal seas of Guangdong Province. *Journal of Tropical Oceanography* (热带海洋学报), **29**(1), 132–135. (in Chinese with English abstract)
- Jiang X (江鑫), Pan JH (潘金华), Han HW (韩厚伟), Zhang WF (张文枫), Li XJ (李晓捷), Zhang ZZ (张壮志), Luo SJ (罗世菊), Cong YZ (丛义周) (2012) Effects of substrate and water depth on distribution of sea weeds *Zostera marina* and *Z. caespitosa*. *Journal of Dalian Ocean University* (大连海洋大学学报), **27**, 101–104. (in Chinese with English abstract)
- Kuo YM, Lin HJ (2010) Dynamic factor analysis of long-term growth trends of the intertidal seagrass *Thalassia hemprichii* in southern Taiwan. *Estuarine, Coastal and Shelf Science*, **86**, 225–236.
- Lin HJ, Shao KT (1998) Temporal changes in the abundance and growth of intertidal *Thalassia hemprichii* seagrass beds in southern Taiwan. *Botanical Bulletin of Academia Sinica*, **39**, 191–198.
- Lin HJ, Hsieh LY, Liu PJ (2005) Seagrasses of Tongsha Island, with descriptions of four new records to Taiwan. *Botanical Bulletin of Academia Sinica*, **46**, 163–168.
- Wang DR (王道儒), Wu ZJ (吴钟解), Chen CH (陈春华), Lan JX (兰建新), Wu R (吴瑞), Chen XH (陈晓慧), Zhang GX (张光星), Li YC (李元超) (2012) Distribution of sea-grass resources and existing threat in Hainan Island. *Marine Environmental Science* (海洋环境科学), **31**, 34–38. (in Chinese with English abstract)
- Xu ZJ (徐宗军), Zhang XL (张绪良), Zhang ZH (张朝辉), Zheng W (郑伟) (2010) Analysis of the biodiversity characters of coastal wetlands in southern Laizhou Bay. *Ecology and Environmental Sciences* (生态环境学报), **19**, 367–372. (in Chinese with English abstract)
- Yang YP, Fong SC, Liu HY (2002) Taxonomy and distribution of seagrasses in Taiwan. *Taiwania*, **47**, 54–61.
- Yip KL, Lai CCP (2006) *Halophila minor* (Hydrocharitaceae): A new record with taxonomic notes of the *Halophila* from the Hong Kong Special Administrative Region, China. *Acta Phytotaxonomica Sinica* (植物分类学报), **44**, 457–463.

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