



Title	尾瀬ヶ原の池漕における大型水生植物の分布と長期変化
Author(s)	野原, 精一; 藤原, 英史; 安類, 智仁
Citation	低温科学, 80, 309-327
Issue Date	2022-03-31
DOI	10.14943/lowtemsci.80.309
Doc URL	<a href="http://hdl.handle.net/2115/84984">http://hdl.handle.net/2115/84984</a>
Type	bulletin (article)
Note	電子資料追加
Additional Information	There are other files related to this item in HUSCAP. Check the above URL.
File Information	20_p309-327_EM_LT80.pdf (電子資料)



[Instructions for use](#)

## 尾瀬ヶ原の池澹における大型水生植物の分布と長期変化

野原 精一<sup>1)</sup>, 藤原 英史<sup>2)</sup>, 安類 智仁<sup>3)</sup>

Long team limnological studies of aquatic vascular plants in bog pool of  
Ozegahara mire ecosystems

Seiichi Nohara<sup>1</sup>, Eiji Fujiwara<sup>2</sup>, Tomohito Anrui<sup>3</sup>

- 1) 国立環境研究所
- 2) (株) ドキュメンタリーチャンネル
- 3) NPO 法人 片品・山と森の学校

<sup>1</sup> National Institute for Environmental Studies, Onogawa 16-2, Tsukuba, Ibaraki 305-8506  
Japan

<sup>2</sup> Documentary channel, Tsurugaoka 851-1, Tsurugashima, Saitama 350-2204, Japan

<sup>3</sup> NPO Katashina mountain and forest school, Katashina 9-1, Gunma 378-0413, Japan

責任著者

野原 精一

〒305-8506 茨城県つくば市小野川 16-2

国立環境研究所

E-mail: [snohara@nies.go.jp](mailto:snohara@nies.go.jp)









品番	品名	仕様	数量	単価	合計	納期	備考		
14	1317	5514	1	36.5525.8	36,552,580	2018.7.30	0.0		
15	1318	5513	1	36.5525.8	36,552,580	2018.7.30	0.0		
16	1319	5514	1	36.5525.8	36,552,580	2018.7.30	0.0		
17	1316	5513	1	36.5525.0	36,552,000	2018.7.30	0.4		
18	1316	5513	1	36.5524.6	36,552,460	2018.7.30	0.0		
19	1317	5513	1	36.5524.6	36,552,460	2018.7.30	1.4		
20	370	1314	5513	1	36.5524.3	36,552,430	2018.7.30	1.1	
21	389	1312	5512	1	36.5523.2	36,552,320	2018.7.30	1.3	
22	389	1312	5512	1	36.5523.7	36,552,370	2018.7.30	0.1	
24	1313	5514	1	36.5525.1	36,552,510	2018.7.30	0.1		
25	1314	5515	1	36.5525.6	36,552,560	2018.7.30	0.9		
27	384	1312	5515	1	36.5527.0	36,552,700	2018.7.30	1.8	
28	380	1311	5515	1	36.5526.7	36,552,670	2018.7.30	1.8	
29	1312	5514	1	36.5525.8	36,552,580	2018.7.30	0.1		
2902	1310	5516	1	36.5527.8	36,552,780	2018.7.30	0.6		
2901	1310	5516	1	36.5527.8	36,552,780	2018.7.30	0.1		
30	365	1310	5516	1	36.5527.7	36,552,770	2018.7.30	1.9	
3001	1310	5516	1	36.5527.5	36,552,750	2018.7.30	1.4		
31	381	1308	5516	1	36.4427.4	36,442,740	2018.7.30	0.2	
32	382	1308	5516	1	36.5527.6	36,552,760	2018.7.30	0.7	
34	1309	5515	1	36.5527.6	36,552,760	2018.7.30	0.0		
35	1307	5516	1	36.5528.5	36,552,850	2018.7.30	0.9		
36	355	16306	5518	1	36.5528.4	36,552,840	2018.7.30	1.5	
37	1308	5517	1	36.5528.5	36,552,850	2018.7.30	1.2		
38	1309	5517	1	36.5530.0	36,553,000	2018.7.30	1		
39	1308	5519	1	36.5530.0	36,553,000	2018.7.30	0.0		
40	1307	5519	1	36.5530.0	36,553,000	2018.7.30	0.0		
41	1308	5520	1	36.5530.0	36,553,000	2018.7.30	0.0		
42	1307	5521	1	36.5532.7	36,553,270	2018.7.30	0.0		
43	1307	5521	1	36.5532.3	36,553,230	2018.7.30	0.0		
44	356	1302	5520	1	36.5531.1	36,553,110	2018.7.30	1.2	
45	357	1303	5517	1	36.5529.8	36,552,980	2018.7.30	0.3	
4501	1304	5516	1	36.5529.2	36,552,920	2018.7.30	0.8		
46	1300	5518	1	36.5529.2	36,552,920	2018.7.30	0.8		
47	1301	5517	1	36.5529.2	36,552,920	2018.7.30	0.0		
48	359	1303	5515	1	36.5528.6	36,552,860	2018.7.30	0.0	
49	1306	5518	1	36.5527.2	36,552,720	2018.7.30	0.7		
50	1308	5515	1	36.5529.0	36,552,900	2018.7.30	1.9		
NN3-	1	1313	5523	1	36.5534.7	36,553,470	2018.7.31	0.0	
1	1311	5522	1	36.5535.3	36,553,530	2018.7.31	1		
2	1312	5511	1	36.5530.4	36,553,040	2018.7.31	1.5		
3	1312	5520	1	36.5531.4	36,553,140	2018.7.31	0.0		
4	1312	5520	1	36.5531.4	36,553,140	2018.7.31	1.3		
5	1313	5520	1	36.5531.4	36,553,140	2018.7.31	1.6		
6	1317	5519	1	36.5530.8	36,553,080	2018.7.31	1.8		
7	1318	5521	1	36.5532.7	36,553,270	2018.7.31	1.7		
8	1318	5521	1	36.5531.1	36,553,110	2018.7.31	3.4		
9	1318	5522	1	36.5532.7	36,553,270	2018.7.31	0.9		
901	1319	5521	1	36.5530.0	36,553,000	2018.7.31	0.7		
902	1319	5521	1	36.5530.0	36,553,000	2018.7.31	0.6		
903	1319	5521	1	36.5531.9	36,553,190	2018.7.31	0.7		
11	1320	5521	1	36.5532.4	36,553,240	2018.7.31	1.9		
12	1321	5521	1	36.5532.4	36,553,240	2018.7.31	0.0		
13	1323	5521	1	36.5532.4	36,553,240	2018.7.31	0.6		
14	1321	5521	1	36.5531.4	36,553,140	2018.7.31	0.0		
15	1321	5520	1	36.5531.4	36,553,140	2018.7.31	0.0		
16	1321	5520	1	36.5531.1	36,553,110	2018.7.31	0.0		
17	1318	5519	1	36.5530.6	36,553,060	2018.7.31	0.0		
NN3-	18	378	1320	5519	1	36.5529.3	36,552,930	0.0	
19	1320	5518	1	36.5529.2	36,552,920	2018.8.1	0.0		
20	351	1325	5517	1	36.5528.9	36,552,890	2018.8.1	1.4	
21	1325	5517	1	36.5528.9	36,552,890	2018.8.1	0.2		
22	1321	5517	1	36.5529.0	36,552,900	2018.8.1	0.0		
23	349	1328	5519	1	36.5531.2	36,553,120	2018.8.1	1.9	
24	1327	5520	1	36.5531.2	36,553,120	2018.8.1	0.7		
25	354	1327	5520	1	36.5531.2	36,553,120	2018.8.1	0.2	
26	1327	5520	1	36.5531.7	36,553,170	2018.8.1	0.1		
27	1327	5521	1	36.5532.4	36,553,240	2018.8.1	0.4		
28	1329	5520	1	36.5531.9	36,553,190	2018.8.1	0.7		
29	1329	5520	1	36.5531.5	36,553,150	2018.8.1	0.0		
2901	1329	5520	1	36.5531.6	36,553,160	2018.8.1	0.1		
2902	1329	5520	1	36.5531.4	36,553,140	2018.8.1	0.1		
30	1329	5519	1	36.5530.8	36,553,080	2018.8.1	1.6		
31	1329	5519	1	36.5530.2	36,553,020	2018.8.1	0.0		
32	353	1329	5518	1	36.5530.0	36,553,000	2018.8.1	1.1	
33	1332	5519	1	36.5530.4	36,553,040	2018.8.1	0.2		
34	1332	5519	1	36.5529.3	36,552,930	2018.8.1	0.1		
35	1332	5518	1	36.5529.3	36,552,930	2018.8.1	0.0		
36	1332	5517	1	36.5529.1	36,552,910	2018.8.1	0.7		
37	1331	5517	1	36.5528.7	36,552,870	2018.8.1	0.6		
38	1330	5516	1	36.5527.8	36,552,780	2018.8.1	0.7		
39	1329	5515	1	36.5527.9	36,552,790	2018.8.1	1.6		
3901	1329	5514	1	36.5525.5	36,552,550	2018.8.1	0.1		
NN4-	1	318	1324	5528	1	36.5538.0	36,553,800	2018.8.1	0.0
2	1323	5528	1	36.5539.2	36,553,920	2018.8.1	0.6		
3	318	1324	5527	1	36.5539.1	36,553,910	2018.8.1	0.6	
4	317	1324	5528	1	36.5539.9	36,553,990	2018.8.1	1.1	
401	1324	5528	1	36.5539.5	36,553,950	2018.8.1	0.4		
5	1324	5519	1	36.5540.1	36,554,010	2018.8.1	0.0		
6	1325	5519	1	36.5540.4	36,554,040	2018.8.1	0.0		
7	321	1325	5519	1	36.5540.4	36,554,040	2018.8.1	0.0	
8	324	1322	5520	1	36.5540.4	36,554,040	2018.8.1	0.0	
801	1321	5531	1	36.5541.2	36,554,120	2018.8.1	0.7		
9	1321	5531	1	36.5542.8	36,554,280	2018.8.1	0.0		
10	1322	5532	1	36.5543.4	36,554,340	2018.8.1	0.6		
11	1322	5532	1	36.5543.4	36,554,340	2018.8.1	0.4		
12	1322	5532	1	36.5543.2	36,554,320	2018.8.1	0.4		
13	322	1322	5532	1	36.5543.8	36,554,380	2018.8.1	0.0	
14	1325	5531	1	36.5543.1	36,554,310	2018.8.1	0.1		
15	325	1325	5532	1	36.5543.3	36,554,330	2018.8.1	0.0	
16	326	1325	5532	1	36.5543.9	36,554,390	2018.8.1	0.7	
17	1324	5533	1	36.5543.1	36,554,310	2018.8.1	1		
18	1325	5534	1	36.5543.5	36,554,350	2018.8.1	0.9		
19	1327	5532	1	36.5543.5	36,554,350	2018.8.1	0.7		
1801	1327	5531	1	36.5543.4	36,554,340	2018.8.1	0.2		
1901	1327	5531	1	36.5543.1	36,554,310	2018.8.1	0.2		
20	1328	5531	1	36.5543.0	36,554,300	2018.8.1	0.4		
2001	1328	5531	1	36.5543.2	36,554,320	2018.8.1	0.4		
2002	1328	5532	1	36.5543.4	36,554,340	2018.8.1	0.4		
2003	1328	5532	1	36.5543.6	36,554,360	2018.8.1	0.2		
2004	1328	5532	1	36.5543.6	36,554,360	2018.8.1	0.2		
2005	1328	5532	1	36.5543.7	36,554,370	2018.8.1	0.1		
21	1329	5532	1	36.5543.5	36,554,350	2018.8.1	0.1		
2101	1329	5532	1	36.5543.7	36,554,370	2018.8.1	0.2		
22	1329	5532	1	36.5543.3	36,554,330	2018.8.1	0.2		
23	1329	5531	1	36.5543.6	36,554,360	2018.8.1	0.4		
24	1328	5530	1	36.5542.9	36,554,290	2018.8.1	0.7		
25	1329	5530	1	36.5542.4	36,554,240	2018.8.1	0.0		
26	1328	5530	1	36.5542.3	36,554,230	2018.8.1	0.2		
28	1327	5530	1	36.5542.0	36,554,200	2018.8.1	1.1		

























