SUPPLEMENTARY MATERIAL

Cyanobacterial dynamics and toxins concentrations in Lake Alto Flumendosa, Sardinia, Italy

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Supplementary Tab. 1. MCs congeners concentrations (µg L^{-1}) in discrete samples in the three sampling sites.

Date of sampling	Site	MCs					
		RR	dem-RR	LR	dem-LR	LA	TOT
5 Oct 2011	S1	0.000	0.000	0.185	0.000	0.141	**0.326**
8 Nov 2011	S1	0.004	0.049	0.046	0.005	0.011	**0.116**
14 Dec 2011	S1	0.001	0.054	0.006	0.006	0.001	**0.068**
24 Jan 2012	S1	0.000	0.084	0.000	0.009	0.000	**0.092**
28 Feb 2012	S1	0.000	0.138	0.000	0.017	0.000	**0.155**
26 Mar 2012	S1	0.000	0.109	0.000	0.010	0.000	**0.119**
23 Apr 2012	S1	0.000	0.206	0.000	0.011	0.000	**0.217**
22 May 2012	S1	0.000	0.032	0.000	0.000	0.000	**0.032**
26 Jun 2012	S1	0.000	0.000	0.000	0.000	0.000	**0.000**
30 Jul 2012	S1	0.000	0.000	0.000	0.000	0.000	**0.000**
25 Sep 2012	S1	0.000	0.006	0.021	0.000	0.008	**0.035**
24 Oct 2012	S1	0.000	0.006	0.029	0.000	0.012	**0.046**
5 Dec 2012	S1	0.000	0.065	0.004	0.000	0.000	**0.070**
29 Jan 2013	S1	0.000	0.018	0.000	0.000	0.000	**0.018**
5 Mar 2013	S1	0.000	0.000	0.000	0.000	0.000	**0.000**
9 Apr 2013	S1	0.000	0.017	0.000	0.000	0.000	**0.017**
14 May 2013	S1	0.000	0.015	0.000	0.000	0.000	**0.015**
5 Oct 2011	S2	0.000	0.000	0.148	nd	0.098	**0.246**
8 Nov 2011	S2	0.002	0.057	0.047	0.006	0.009	**0.121**
14 Dec 2011	S2	0.001	0.066	0.008	0.007	0.001	**0.084**
24 Jan 2012	S2	0.000	0.061	0.000	0.006	0.000	**0.066**
28 Feb 2012	S2	0.000	0.184	0.000	0.019	0.000	**0.203**
26 Mar 2012	S2	0.000	0.114	0.000	0.011	0.000	**0.125**
23 Apr 2012	S2	0.000	0.230	0.000	0.013	0.000	**0.243**
22 May 2012	S2	0.000	0.035	0.000	0.000	0.000	**0.035**
26 Jun 2012	S2	0.000	0.000	0.000	0.000	0.000	**0.000**
30 Jul 2012	S2	0.000	0.007	0.000	0.000	0.000	**0.007**
25 Sep 2012	S2	0.000	0.007	0.026	0.000	0.012	**0.045**
24 Oct 2012	S2	0.000	0.005	0.027	0.000	0.014	**0.046**
29 Jan 2013	S2	0.000	0.013	0.000	0.000	0.000	**0.013**
9 Apr 2013	S2	0.000	0.011	0.000	0.000	0.000	**0.011**
14 May 2013	S2	0.000	0.009	0.000	0.000	0.000	**0.009**
5 Oct 2011	S3	0.000	0.000	0.233	0.000	0.134	**0.367**
8 Nov 2011	S3	0.010	0.059	0.096	0.007	0.019	**0.192**
14 Dec 2011	S3	0.001	0.069	0.007	0.008	0.001	**0.087**
24 Jan 2012	S3	0.000	0.095	0.000	0.012	0.000	**0.107**
28 Feb 2012	S3	0.000	0.132	0.000	0.014	0.000	**0.146**
26 Mar 2012	S3	0.000	0.143	0.000	0.017	0.000	**0.160**
23 Apr 2012	S3	0.000	0.093	0.000	0.008	0.000	**0.101**
22 May 2012	S3	0.000	0.030	0.000	0.000	0.000	**0.030**
26 Jun 2012	S3	0.000	0.007	0.000	0.000	0.000	**0.007**
30 Jul 2012	S3	0.000	0.007	0.005	0.000	0.035	**0.047**

Date	Site						
25 Sep 2012	S3	0.000	0.000	0.020	0.000	0.009	**0.030**
24 Oct 2012	S3	0.000	0.000	0.019	0.000	0.007	**0.026**
14 Dec 2011	P1	0.001	0.044	0.007	0.006	0.000	**0.058**
24 Jan 2012	P1	0.000	0.067	0.000	0.009	0.000	**0.076**
28 Feb 2012	P1	0.000	0.136	0.000	0.011	0.000	**0.147**
26 Mar 2012	P1	0.000	0.244	0.000	0.018	0.000	**0.262**
23 Apr 2012	P1	0.000	0.312	0.000	0.015	0.000	**0.327**
22 May 2012	P1	0.000	0.113	0.000	0.009	0.000	**0.122**
26 Jun 2012	P1	0.000	0.064	0.000	0.006	0.000	**0.070**
30 Jul 2012	P1	0.000	0.095	0.000	0.008	0.000	**0.103**
25 Sep 2012	P1	0.000	0.010	0.000	0.000	0.000	**0.010**
24 Oct 2012	P1	0.000	0.000	0.000	0.000	0.000	**0.000**
5 Dec 2012	P1	0.000	0.084	0.003	0.000	0.000	**0.087**
29 Jan 2013	P1	0.000	0.014	0.000	0.000	0.000	**0.014**
5 Mar 2013	P1	0.000	0.006	0.000	0.000	0.000	**0.006**
9 Apr 2013	P1	0.000	0.011	0.000	0.000	0.000	**0.011**
14 May 2013	P1	0.000	0.009	0.000	0.000	0.000	**0.009**
14 Dec 2011	P2	0.001	0.054	0.009	0.006	0.002	**0.072**
24 Jan 2012	P2	0.000	0.078	0.000	0.009	0.000	**0.088**
28 Feb 2012	P2	0.000	0.070	0.000	0.006	0.000	**0.076**
26 Mar 2012	P2	0.000	0.242	0.000	0.020	0.000	**0.262**
23 Apr 2012	P2	0.000	0.239	0.000	0.012	0.000	**0.251**
22 May 2012	P2	0.000	0.104	0.000	0.009	0.000	**0.113**
26 Jun 2012	P2	0.000	0.128	0.000	0.011	0.000	**0.139**
30 Jul 2012	P2	0.000	0.114	0.000	0.009	0.000	**0.123**
25 Sep 2012	P2	0.000	0.008	0.000	0.000	0.000	**0.008**
24 Oct 2012	P2	0.000	0.000	0.000	0.000	0.000	**0.000**
29 Jan 2013	P2	0.000	0.015	0.000	0.000	0.000	**0.015**
9 Apr 2013	P2	na	na	na	na	na	na
14 May 2013	P2	0.000	0.012	0.000	0.000	0.000	**0.012**

nd, not detected; na, not available.

Supplementary Tab. 2. Average of nutrient concentrations in the sampling sites (computed from data from the report of Cabras *et al.*, 2013). Data refer to the period of the monitoring activities described in this paper.

Sites	Nitrogen Tot (mg L^{-1})	Phosphorus Tot (mg L^{-1})
S1	0.027-0.699 0.283 (0.205) n=11	0.018-0.040 0.029 (0.007) n=11
S2	0.074-0.442 0.231 (0.130) n=9	0.020-0.041 0.027 (0.006) n=9
S3	0.076-0.689 0.274 (0.202) n=8	0.022-0.043 0.030 (0.007) n=8
P1	0.253-0.684 0.480 (0.150) n=8	0.018-0.041 0.027 (0.008) n=8
P2	0.364-0.593 0.469 (0.092) n=6	0.024-0.059 0.038 (0.012) n=6

Min-Max, average (s.d.); n=number of samples.

REFERENCES

Cabras PA, Rolesu S, Orrù A, Salati F, Pintore A, Garau P, Funari E, Lanni L, Vodret B, 2013. [Sviluppo di un modello di analisi del rischio di contaminazione da cianotossine in occasione di fioriture di cianobatteri tossici, ed eventuali riflessi sulle popolazioni animali domestiche e selvatiche e sull'ittiofauna di un lago della Sardegna (lago Alto Flumendosa)].[Report in Italian]. Ministero della Salute; Dipartimento per la Sanità Pubblica Veterinaria, la Nutrizione e la Sicurezza degli Alimenti.