



Nb.	Name	Date	T°	Basin/River Site	Population	Latitude	Sample code definitions
	Slide nb	Hydro	D/S		Spe./Genera	Longitude	
i.1	20060612805001	04/08/2006	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	469	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20060612805001	6128050	0		12/8	0	
i.2	20070612800001	09/08/2007	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	400	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20070612800001	6128000	0		43/26	0	
i.3	20080612800001	23/07/2008	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	400	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20080612800001	6128000	0		18/13	0	
i.4	20090612800001	02/07/2009	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	450	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20090612800001	6128000	0		21/13	0	
i.5	20100612800001	05/08/2010	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	404	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20100612800001	6128000	0		36/18	0	
i.6	20110612800001	07/07/2011	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	524	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20110612800001	6128000	0		40/22	0	
i.7	20120612800001	11/10/2012	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	405	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20120612800001	6128000	0		33/19	0	
i.8	20130612800001	13/06/2013	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	416	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20130612800001	6128000	0		25/13	0	
i.9	20140612800001	18/06/2014	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	403	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Semi-lotic
	20140612800001	06128000	0		36/19	0	
i.10	20150612800001	28/05/2015	0	RMC / GARDON D'ALES/ ST HILAIRE DE BRETHMAS	405	0	Sample: Periphyton natural Substrate: Blocs or stones special: Nothing to report Facies: Lotic
	20150612800001	06128000	0		21/13	0	

Indices /20	i.1	i.2	i.3	i.4	i.5	i.6	i.7	i.8	i.9	i.10
CEE	11.9	13.4	13.2	15.7	15.4	16.4	14.7	19.2	16.5	17
Descy	14.1	16.2	15.3	15.4	16.6	15.1	16.2	19.1	16.3	15.1
EPID	11.9	12.9	10.9	16.8	14.4	16.5	13.4	14.8	15.6	16
Hurl.	9.6	9.5	8.5	13.5	11.4	13.3	10.9	12.1	12.2	11.2
IBD	13.6	14.9	13.1	18.7	16.6	18.4	15	20	18.4	18
IBD 2009	13.6	14.9	13.1	18.7	16.6	18.4	15	20	17.7	17.9
IBD 2014	13.6	14.9	13.1	18.7	16.6	18.4	15	20	17.7	17.9
IBD EQR	0.73	0.81	0.7	1.03	0.91	1.01	0.81	1.11	0.97	0.98
IDAP	9.1	13.9	9.7	19.1	16.7	18.2	14.2	17.6	18.5	18.5
IDG	9.7	11.7	6.5	16.7	15.3	16.8	13.3	17.8	16	16.7
IDP	11	12.6	13.9	14.8	13.4	13.8	13.5	13.4	14.5	14.6
IDS/E	3.1	3.82	3.78	4.42	3.82	4.24	3.76	4.22	4.13	4.2
IPS	11.4	12.9	12.9	18.2	14.8	16.5	13.9	18.3	16.8	16.9
Lobo	10.5	16.4	17.8	19.8	18.8	19.6	16.3	17.2	19.2	19.6
Rott TI	7.1	7.9	8.1	13.8	10.1	10.9	8.8	12.1	11.3	13.2
Rott SI	10.8	13.1	12.1	14.6	14.3	14.9	12.7	13.6	13.8	13.1
SHE	17.3	13	12.6	16.6	15.4	17	14.4	15.5	15.8	15.9
Sla.	13.6	13.9	14.3	15.1	12.8	14.7	13.3	17	13.9	14.9
TDIL	12.1	9.9	4	14	13	14.2	12.7	14.1	13.6	14.3
WAT	11.7	13.1	13.8	18.3	15.8	15.8	13.2	17.3	15.1	16.1
TDI	6.1	8.3	7	14.3	10.2	13.2	9.3	12.2	12.2	14

Species abundance (abundances)	Code	i.1	i.2	i.3	i.4	i.5	i.6	i.7	i.8	i.9	i.10
Achnanthidium lineare W.Smith	ACLI	-	-	-	-	-	-	-	149	-	-
Achnanthidium atomoides Monnier, Lange-Bertalot & Ector	ADAM	-	-	-	1	-	-	-	12	-	-
Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	ADBI	-	-	-	-	-	1	-	-	-	-
Achnanthidium costei Pérès & Le Cohu	ADCC	-	-	-	-	-	-	-	-	102	-
Achnanthidium sp.	ADCS	-	-	-	6	-	6	23	7	-	-
Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	ADEU	8	2	-	7	11	5	-	-	1	7
Achnanthidium minutissimum (Kützing) Czarniecki	ADMI	8	75	83	353	149	265	52	75	140	235
Achnanthidium delmontii Peres, Le Cohu et Barthes	ADMO	-	-	-	-	-	-	-	36	2	57
Achnanthidium pyrenaicum (Hustedt) Kobayasi	ADPY	-	6	-	3	2	-	-	-	-	-
Achnanthidium rivulare Potapova & Ponader	ADRI	-	-	-	3	-	-	-	-	4	4
Achnanthidium druartii Rimet & Couté in Rimet & al.	ADRU	-	-	-	-	-	2	-	-	-	-
Achnanthidium saprophilum (Kobayasi et Mayama) Round & Bukhtiyarova	ADSA	19	19	-	-	-	-	-	-	-	-
Achnanthidium straubianum (Lange-Bertalot)Lange-Bertalot	ADSB	-	-	-	-	-	1	-	2	-	-
Achnanthidium subatomus (Hustedt) Lange-Bertalot	ADSU	-	-	-	1	-	-	2	1	-	-

Species abundance (abundances)	Code	i.1	i.2	i.3	i.4	i.5	i.6	i.7	i.8	i.9	i.10
<i>Amphora ovalis</i> (Kützing) Kützing var.ovalis	AOVA	-	1	-	-		-	-	-	-	-
<i>Amphora pediculus</i> (Kützing) Grunow	APED	8	50	2	4	3	3	2	1	5	2
<i>Bacillaria paxillifera</i> (paxillifer)(O.F. Müller) Hendey var.paxillifera	BPAX	-	1	-	-		-	-	-	-	-
<i>Cymbella excisa</i> Kützing var. excisa	CAEX	-	8	11	31	25	91	15	27	4	33
<i>Cyclotella atomus</i> var. gracilis Genkal & Kiss	CAGR	-	-	-	-		-	-	-	1	-
<i>Caloneis bacillum</i> (Grunow) Cleve	CBAC	-	2	-	2	2	-	-	-	-	-
<i>Cocconeis euglypta</i> Ehrenberg emend Romero & Jahn	CEUG	-	-	-	-	3	9	8	-	8	8
<i>Cymbella excisiformis</i> Krammer var.excisiformis	CEXF	-	-	-	-		-	-	-	3	-
<i>Caloneis lancetula</i> (Schulz) Lange-Bertalot & Witkowski	CLCT	-	-	-	-		-	-	-	-	2
<i>Cyclotella meneghiniana</i> Kützing	CMEN	-	1	-	-	16	-	1	-	-	-
<i>Cymbella minuta</i> Hilse ex Rabenhorst (Encyonema)	CMIN	-	-	2	-		-	-	-	-	-
COCCONEIS C.G. Ehrenberg	COCO	-	-	-	-		-	-	-	2	-
<i>Cocconeis</i> sp.	COCS	-	-	-	-		3	-	-	-	-
<i>Cocconeis pediculus</i> Ehrenberg	CPED	-	-	-	-	3	-	2	-	-	-
<i>Cocconeis placentula</i> Ehrenberg var. placentula	CPLA	-	-	3	-	2	-	-	-	-	-
<i>Cocconeis placentula</i> Ehrenberg var.euglypta (Ehr.) Grunow	CPLE	2	7	24	4		-	-	-	-	-
<i>Cocconeis placentula</i> Ehrenberg var. pseudolineata Geitler	CPPL	-	-	-	-	2	-	-	-	-	-
<i>Cymbella tumida</i> (Brebisson)Van Heurck	CTUM	2	-	-	-		-	-	-	-	-
Diatomée anormale Abnormal diatom valve (unidentified) or sum of deformities abundance	DEFO	-	-	-	-		-	-	6	-	-
<i>Diatoma ehrenbergii</i> Kützing	DEHR	-	-	-	-		-	-	3	-	-
<i>Diatoma ehrenbergii</i> Kützing f. anormale	DEHT	-	-	-	-		-	-	1	-	-
<i>Denticula tenuis</i> Kützing	DTEN	-	-	-	-		1	-	-	-	-
<i>Diatoma vulgare</i> Bory	DVUL	-	2	2	-	64	3	15	-	11	-
<i>Encyonopsis minuta</i> Krammer & Reichardt	ECPM	-	-	-	-	3	11	-	-	1	-
<i>Encyonopsis microcephala</i> (Grunow) Krammer	ENCM	-	1	-	-		-	-	-	-	-
<i>Encyonema lange-bertalotii</i> Krammer morphotype 1	ENLB	-	1	-	-		-	-	-	-	-
<i>Encyonema minutum</i> (Hilse in Rabh.) D.G. Mann in Round Crawford & Mann	ENMI	-	-	-	2	1	2	-	8	4	-
<i>Encyonema ventricosum</i> (Agardh) Grunow in Schmidt & al.	ENVE	-	-	-	-	5	1	-	-	7	-
<i>Eolimna minima</i> (Grunow) Lange-Bertalot in Moser & al.	EOMI	16	17	-	-	4	-	4	-	1	-
<i>Eolimna minima</i> (Grunow) Lange-Bertalot f. anormale	EOMT	-	-	-	2		-	-	-	-	-
<i>Encyonema prostratum</i> (Berkeley) Kützing	EPRO	-	2	-	-		-	-	-	-	-
<i>Encyonema silesiacum</i> (Bleisch in Rabh.) D.G. Mann	ESLE	-	-	-	-	2	3	-	63	-	4
<i>Fragilaria brevistriata</i> Grunow in Van Heurck	FBRE	-	-	-	-	26	-	-	-	-	-
<i>Fragilaria capucina</i> Desmazieres var.capitellata (Grunow) Lange-Bertalot	FCCP	-	-	-	-		3	-	-	-	-
<i>Fragilaria capucina</i> Desmazieres var.distans (Grunow) Lange-Bertalot	FCDI	-	7	-	-		-	-	-	-	-
<i>Fragilaria capucina</i> Desm. var. perminuta (Grunow) Lange-Bertalot	FCPE	-	-	-	-		2	-	-	-	-
<i>Fragilaria capucina</i> Desmazieres var. rumpens (Kützing) Lange-Bertalot	FCRU	-	-	-	-	7	-	-	-	-	-
<i>Fragilaria capucina</i> Desmazieres var.vaucheriae (Kützing) Lange-Bertalot	FCVA	-	-	3	-	2	-	12	1	-	-
<i>Fragilaria construens</i> (Ehr.) Grunow f.venter (Ehr.) Hustedt	FCVE	-	-	-	-	8	-	-	-	-	-
<i>Fragilaria gracilis</i> Østrup	FGRA	-	-	-	-		7	-	-	2	1
<i>Fragilaria pinnata</i> Ehrenberg var. pinnata	FPIN	-	-	-	-	8	-	-	-	4	-
<i>Fragilaria pararumpens</i> Lange-Bertalot, Hofmann & Werum in Hofmann & al.	FPRU	-	-	-	-		-	-	-	5	3
FRAGILARIA H.C. Lyngbye	FRAG	-	-	-	-		-	-	-	26	-
<i>Fragilaria</i> sp.	FRAS	-	-	-	-		7	-	2	-	-
<i>Fragilaria rumpens</i> (Kütz.) G.W.F.Carlson	FRUM	-	3	-	-		-	2	-	-	-
<i>Fistulifera saprophila</i> (Lange-Bertalot & Bonik) Lange-Bertalot	FSAP	-	-	-	-		-	-	6	1	20

Species abundance (abundances)	Code	i.1	i.2	i.3	i.4	i.5	i.6	i.7	i.8	i.9	i.10
Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	FSBH	-	2	-	-		-	-	-	-	-
Fragilaria ulna (Nitzsch.)Lange-Bertalot var.acus (Kütz.) Lange-Bertalot	FUAC	-	-	-	-	19	-	-	-	-	-
Fragilaria vaucheriae (Kützing) Petersen	FVAU	-	2	-	-		-	-	-	-	-
Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	GOLI	-	-	-	-		-	-	-	-	1
Gomphonema sp.	GOMS	-	-	-	-		1	-	-	-	-
Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	GPAP	-	-	-	-	2	-	3	-	-	-
Gomphonema parvulum var.parvulum f.saprophilum Lange-Bertalot & Reichardt	GPAS	-	1	-	-		-	-	-	-	-
Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	MAPE	-	1	4	1		-	-	-	-	-
Mayamaea permitis (Hustedt) Bruder & Medlin	MPMI	-	-	-	-		-	-	1	3	2
Melosira varians Agardh	MVAR	-	9	2	-		6	2	-	-	-
Nitzschia amphibia Grunow f.amphibia	NAMP	35	4	-	-	2	3	5	-	-	-
Navicula antonii Lange-Bertalot	NANT	-	2	2	-		-	5	-	2	2
Navicula sp.	NASP	-	-	-	-		2	-	-	-	-
Nitzschia amphibia Grunow f. anormale	NATG	-	-	-	-	2	-	-	-	-	-
Nitzschia capitellata Hustedt in A.Schmidt & al.	NCPL	-	-	-	-		-	2	-	-	-
Navicula cryptotenella Lange-Bertalot	NCTE	-	19	2	4	5	6	8	1	4	-
Navicula cryptotenelloides Lange-Bertalot	NCTO	-	-	-	-		-	6	1	-	-
Nitzschia dissipata (Kützing) Grunow ssp.dissipata	NDIS	-	2	-	-		3	26	-	1	-
Nitzschia fonticola Grunow in Van Heurck	NFON	47	6	7	-		-	5	-	-	-
Navicula gregaria Donkin	NGRE	-	-	-	3	2	4	-	3	3	-
Nitzschia frustulum (Kützing) Grunow var.frustulum	NIFR	-	-	-	-		3	-	-	-	-
Nitzschia inconspicua Grunow	NINC	-	34	233	17	5	-	5	-	1	2
NITZSCHIA A.H. Hassall	NITZ	-	-	-	-		-	-	-	4	-
Nitzschia microcephala Grunow in Cleve & Moller	NMIC	25	7	-	1	5	4	3	-	4	4
Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Grun	NPAD	-	-	-	-		-	-	-	-	2
Nitzschia paleacea (Grunow) Grunow in van Heurck	NPAE	-	-	1	-		1	-	1	-	2
Nitzschia palea (Kützing) W.Smith var. palea	NPAL	-	6	-	-	2	-	-	-	-	-
Navicula reichardtiana Lange-Bertalot var. reichardtiana	NRCH	-	1	-	-		-	-	-	9	-
Navicula rostellata Kützing	NROS	-	1	-	-		-	-	-	-	-
Nitzschia soratensis Morales & Vis	NSTS	-	-	-	-		-	-	1	-	-
Nitzschia tabellaria (Grunow) Grunow in Cl. & Grunow	NTAB	-	-	-	-		-	2	-	-	-
Navicula veneta Kützing	NVEN	-	-	-	-	2	-	1	-	-	-
Nitzschia costei Tudesque, Rimet & Ector	NYCO	-	-	-	-		-	-	-	1	3
Nitzschia macedonica Hustedt	NZMA	-	1	-	-		-	-	-	-	-
Pseudostaurosira brevistriata var.capitata (Hérib.)Andresen Stoermer & Kreis	PBCA	-	-	-	-		-	11	-	-	-
Pseudostaurosira sp.	PDTS	-	-	-	-		-	90	-	-	-
Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	PLFR	-	12	1	1	2	-	-	-	-	-
Pseudostaurosira neoelliptica (Witkowski) Morales	PNEL	-	-	-	-		-	-	-	13	-
Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	PSBR	-	13	-	-		-	-	-	-	-
Planothidium sp.	PTDS	-	-	-	-		1	-	-	-	-
Punctastriata lancettula (Schumann) Hamilton & Siver	PULA	-	-	-	-		-	15	-	-	-
Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	RABB	-	1	1	1		3	1	-	8	-
Reimeria sinuata (Gregory) Kociolek & Stoermer	RSIN	-	3	17	3	2	1	6	7	4	11
Reimeria uniseriata Sala Guerrero & Ferrario	RUNI	-	1	-	-		-	-	-	-	-
Staurosira construens (Ehr.) var. binodis (Ehr.) Hamilton	SCBI	-	-	-	-		-	45	-	-	-
Staurosira construens Ehr. f.subsalina (Hust.)Bukhtiyarova	SCSS	-	48	-	-		13	-	-	-	-
Staurosira elliptica (Schumann) Williams & Round	SELI	-	-	-	-	1	-	22	-	-	-

Species abundance (abundances)	Code	i.1	i.2	i.3	i.4	i.5	i.6	i.7	i.8	i.9	i.10
Sellaphora minima(Grunow) Mann in Slate & Stevenson	SEMN	-	-	-	-		1	-	-	-	-
Synedra fasciculata Kützing	SFSC	2	1	-	-		-	-	-	-	-
Staurosirella pinnata (Ehr.) Williams & Round	SPIN	-	9	-	-		9	-	-	-	-
Staurosira venter (Ehr.) Cleve & Moeller	SSVE	297	9	-	-		7	-	-	-	-
Tabularia fasciculata (C.A. Agardh) Williams et Round	TFAS	-	-	-	-		-	4	-	-	-
Ulnaria ulna (Nitzsch) Compère var. acus (Kütz.) Lange-Bertalot	UUAC	-	-	-	-		-	-	-	10	-
Ulnaria ulna (Nitzsch) Compère	UULN	-	-	-	-	5	17	-	1	2	-
Ulnaria ulna (Nitzsch) Compère abnormal form	UULT	-	-	-	-		1	-	-	-	-
Diatomées non identifiées vue connectives	VUCO	-	-	-	-		12	-	-	-	-