

% Dissolved inorganic phosphorus fluxes measured in situ in the Eastern Gotland Basin 2008-2010  
 % and bottom water oxygen concentrations at the start of the incubations.

% p-value <0.05 was used to determine if fluxes were significant or not.

% A second condition was used to determine when the flux was 0, for this the increase/decrease  
 % over time and the analytical uncertainty was used.

% ND stands for No Data, reasons for this are mostly leaking chambers or other technical faults

% NS stands for Not Significant and means that the measured concentrations did not give a

% reliable flux estimate

Deployment date	Station	Lander	Chamber no	Depth m	O2 BW mmol/m3	DIP Flux mmol/m2/day	p-value
2008-09-25	A-08	Big Lander	1	60	278.11	NS	0.41
2008-09-25	A-08	Big Lander	2	60	281.05	0.03	0.03
2008-09-25	A-08	Big Lander	3	60	291.94	NS	0.21
2008-09-25	A-08	Big Lander	4	60	284.93	NS	0.29
2008-09-23	B-08	Big Lander	1	75	112.57	NS	0.17
2008-09-23	B-08	Big Lander	2	75	131.57	NS	0.08
2008-09-23	B-08	Big Lander	3	75	130.89	NS	0.08
2008-09-23	B-08	Big Lander	4	75	ND	ND	ND
2008-09-19	C-08	Big Lander	1	90	ND	ND	ND
2008-09-19	C-08	Big Lander	2	90	5	0	0.98
2008-09-19	C-08	Big Lander	3	90	6.8	NS	0.69
2008-09-19	C-08	Big Lander	4	90	4.7	-0.06	0.02
2008-09-16	D-08	Big Lander	1	129	<0	0.43	0.00
2008-09-16	D-08	Big Lander	2	129	<0	0.22	0.00
2008-09-16	D-08	Big Lander	3	129	<0	0.44	0.03
2008-09-16	D-08	Big Lander	4	129	<0	0.00	0.68
2008-09-25	E-08	Big Lander	1	180	<0	0.36	0.00
2008-09-25	E-08	Big Lander	2	180	<0	0.29	0.00
2008-09-25	E-08	Big Lander	3	180	<0	0.22	0.00
2008-09-25	E-08	Big Lander	4	180	<0	0.43	0.00
2008-09-26	F-08	Big Lander	1	210	<0	0.53	0.00
2008-09-26	F-08	Big Lander	2	210	<0	0.61	0.00
2008-09-26	F-08	Big Lander	3	210	<0	0.39	0.00
2008-09-26	F-08	Big Lander	4	210	<0	0.29	0.00
2009-09-27	U-09	Big Lander	1	49	188.09	0.01	0.01
2009-09-27	U-09	Big Lander	2	49	188.33	ND	ND
2009-09-27	U-09	Big Lander	3	49	195.68	0.03	0.00
2009-09-27	U-09	Big Lander	4	49	ND	ND	ND
2009-09-20	V-09	Big Lander	1	64	38.94	NS	0.26
2009-09-20	V-09	Big Lander	2	64	33.36	NS	0.07
2009-09-20	V-09	Big Lander	3	64	ND	ND	ND
2009-09-20	V-09	Big Lander	4	64	ND	ND	ND
2009-09-25	Y-09	Big Lander	1	124	<0	0.42	0.00
2009-09-25	Y-09	Big Lander	2	124	<0	0	0.08
2009-09-25	Y-09	Big Lander	3	124	<0	NS	0.71
2009-09-25	Y-09	Big Lander	4	124	<0	NS	0.09
2010-08-28	J-10	Small Lander	5	30	277.34	-0.02	0.00
2010-08-28	J-10	Small Lander	6	30	271.48	NS	0.25
2010-08-20	H-10	Big Lander	1	44	226.33	NS	0.06

2010-08-20	H-10	Big Lander	2	44	229.94	NS	0.40
2010-08-20	H-10	Big Lander	3	44	233.19	0	0.81
2010-08-20	H-10	Big Lander	4	44	239.5	NS	0.13
2010-08-19	H-10	Small Lander	5	44	243.32	NS	0.30
2010-08-19	H-10	Small Lander	6	44	240.52	NS	0.12
2010-08-24	H-10	Big Lander	1	44	264.5	NS	0.59
2010-08-24	H-10	Big Lander	2	44	265.1	NS	0.43
2010-08-24	H-10	Big Lander	3	44	268.62	NS	0.08
2010-08-24	H-10	Big Lander	4	44	276.81	0.03	0.01
2010-08-22	H-10	Small Lander	5	44	247.56	ND	ND
2010-08-22	H-10	Small Lander	6	44	244.66	0	0.85
2010-08-22	A-10	Big Lander	1	60	118.7	ND	ND
2010-08-22	A-10	Big Lander	2	60	117.63	ND	ND
2010-08-22	A-10	Big Lander	3	60	128.75	NS	0.61
2010-08-22	A-10	Big Lander	4	60	122.14	-0.05	0.04
2010-08-26	A-10	Small Lander	5	60	190.86	-0.09	0.00
2010-08-26	A-10	Small Lander	6	60	188.99	NS	0.49
2010-08-27	A-10	Small Lander	5	60	ND	ND	ND
2010-08-27	A-10	Small Lander	6	60	277.48	0.03	0.01
2010-08-18	B-10	Big Lander	1	75	ND	ND	ND
2010-08-18	B-10	Big Lander	2	75	ND	ND	ND
2010-08-18	B-10	Big Lander	3	75	<0	NS	0.06
2010-08-18	B-10	Big Lander	4	75	<0	NS	0.49
2010-08-21	B-10	Small Lander	5	75	<0	0.09	0.00
2010-08-21	B-10	Small Lander	6	75	<0	0.08	0.00
2010-08-26	D-10	Big Lander	1	130	<0	0.45	0.00
2010-08-26	D-10	Big Lander	2	130	<0	0.19	0.00
2010-08-26	D-10	Big Lander	3	130	<0	0.45	0.00
2010-08-26	D-10	Big Lander	4	130	<0	0.42	0.00
2010-08-27	F-10	Big Lander	1	210	<0	ND	ND
2010-08-27	F-10	Big Lander	2	210	<0	ND	ND
2010-08-27	F-10	Big Lander	3	210	<0	0.99	0.00
2010-08-27	F-10	Big Lander	4	210	<0	0.74	0.00
2010-08-27	F-10	Big Lander	1	210	<0	ND	ND
2010-08-27	F-10	Big Lander	2	210	<0	ND	ND
2010-08-27	F-10	Big Lander	3	210	<0	0.58	0.01
2010-08-27	F-10	Big Lander	4	210	<0	0.35	0.01
2010-08-29	E-10	Big Lander	1	170	<0	0.32	0.00
2010-08-29	E-10	Big Lander	2	170	<0	0.15	0.04
2010-08-29	E-10	Big Lander	3	170	<0	0.15	0.00
2010-08-29	E-10	Big Lander	4	170	<0	0.37	0.00