

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	VT10	Position	N	E
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden		Breiangen Vest	WGS84	59.4867	10.4583
Dynamic information - Information to be noted for each trip												
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck
9/10-18	ANS		vel.(m/s)	dir.(deg)	(m)	LT 923	LT 1006		8/8	0.5	—	—
			6.2	185	197,9	UTC 723	UTC 0806					
Optics	TRIOS	LISST X	HS6 X	AC9 X	Refl 135	Refl 90 X	other					Tair = 13.4
Sampling information												
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station				
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation	
0				6,5	GRØNN				Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
5									Siktedyd		none	
10									Nitrogen + Fosfor	0,5,10,20,30	H ₂ SO ₄ 1 ml	
20									Plankton	5, planktonet	Lugol 8 drops	
30									TSM, 1L	0,5,10,20,30	none	
											none	
									C/N/P	0,5,10,20,30	Holdes kald	
										H ₂ SO ₄	1 ml	
Avvik / kommentarer												
								Tidligere stasjonskode OF-5				
75								CTD type / name: NO SAIV.				
100								$S_0 = 25.5 \text{ PSU}$				
125								$\text{Hpycno} \approx 10 \text{ m}$				
150								$85-100 \rightarrow \text{ferme/pycnoclastom - klin}$				
190								column max				
Toktskjema sendes til ans@niva.no abl@niva.no cwf@niva.no												
S_R : 2,5	S_G : 3,2	S_B : 2,7	S_{black} : 1,2									

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	VT66	Position	N E	
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden		Håøyfjorden	WGS84	59.0227 9.7968	
Dynamic information - Information to be noted for each trip												
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck
9/10-18	ANS		vel.(m/s)	dir.(deg)	(m)	LT 1655 UTC	LT		/8			
8.9			199	204,6								
Optics	TRIOS	LISST	HS6	AC9	Refl 135	Refl 90	other					$T_{air} = 13.4$
Sampling information												
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station				
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation	
0				6					Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
5									Siktedyp		none	
10									Nitrogen + Fosfor	0,5,10,20,30	H_2SO_4 1 ml	
20									Plankton	5, planktonet	Lugol 8 drops	
30									TSM, 1L	0,5,10,20,30	none	
									C/N/P	0,5,10,20,30	Holdes kald	
											H_2SO_4 1 ml	
Avvik / kommentarer												
									Tidligere stasjonskode GI-1			
75									CTD type / name: NO SAIU (Bølgete tur fra VT10 til VT66.) 45-6 m høye bølger!			
100									Glemte å legge inn Aquarius Data på cast 1.			
125									Glemte å sette på pumpen på downcast 2			
150												
200												
Toktskjema sendes til	ans@niva.no		cwf@niva.no		abl@niva.no							
S _R :	3	S _G :	4,5	S _B :	3	Sblack:	1,2					

Static information																
Country	Norway	Institute	NIVA	Ship	Trygve Braarud			Station Name	Station	VT67	Position	N	E			
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden		Langesundsfjorden		WGS84	59.0391	9.7232			
Dynamic information - Information to be noted for each trip																
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck				
10/10-18	ANS		vel.(m/s)	dir.(deg)	(m)	LT 0812	LT 0851	NICE SUNRISE	0/8	0m	X	X				
Optics	TRIOS ✓	LISST X	HS6 X	AC9 X	Refl 135 ✓	Refl 90 X	other	Hum=78% Tair 11.9°								
Sampling information																
Dyp	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station								
ml	ml	ml	ml	Dyp	Farge			check	task	depth	conservation					
0				6,5	6UL				Klorofyll a, 2L	0,5,10,20,30	Holdes kald					
5									Siktedyp		none					
10									Nitrogen + Fosfor	0,5,10,20,30	H ₂ SO ₄	1 ml				
20									Plankton	5, planktonet	Lugol	8 drops				
30									TSM, 1L	0,5,10,20,30	none					
											Holdes kald					
									C/N/P	0,5,10,20,30	H ₂ SO ₄	1 ml				
Avvik / kommentarer																
									Stasjonen omtales feilaktig som "Breviksfjorden"							
									Tidligere stasjonskode FG-1							
30									CTD type / name: NOSAIV							
50									$\text{Oxy}_{100} = 55\%$							
75									Var på stasjon Eksfjorden							
100									sprayfelt ved 50 m							
Toktskjema																
sendes til	ans@niva.no		abl@niva.no		cwf@niva.no											
S _R :	3,8	S _G :	4,5	S _B :	2,3	Sblack:	1,2									

$\text{Oxy}_{100} = 33\%$
(126m)

EKS-1 09:55 LT
58°54.915
9°35.054
H = 130m

Static information													
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	VT68	Position	N E		
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden	Jomfrulandsrenna	WGS84	58.9069	9.6233		
Dynamic information - Information to be noted for each trip													
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck	
10/10/18	Ans		vel.(m/s)	dir.(deg)	(m)	LT 1013	LT 1038		/8				
					24 m	UTC 8/3	UTC 838						
Optics	TRIOS	LISST	HS6	AC9	Refl 135	Refl 90	other						
Sampling information													
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station					
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation		
5				11	LYSGRØNN				Klorofyll a, 2L	5m	Holdes kald		
									Siktedyp		none		
									Nitrogen + Fosfor	5m	H ₂ SO ₄ 1 ml		
									TSM, 1L	5m	none		
									C/N/P	5m	Holdes kald		
Avvik / kommentarer													
30													
50													
75													
100													
Toktskjema													
sendes til	ans@niva.no		cwf@niva.no		cwf@niva.no								
S _R :	4	S _G :	5,5	S _B :	4,5	Sblack:	3 m						
CTD type / name: No SAIV													

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	VT3	Position	N	E
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden	Torbjørnsskjær		WGS84	59.0407	10.7608
Dynamic information - Information to be noted for each trip												
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck
10/10/18	ANS		vel.(m/s)	dir.(deg)	(m)	LT 1415	LT 1515	windy wavy	/8	4-6 m waves	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Optics	TRIOS <input checked="" type="checkbox"/>	LISST <input checked="" type="checkbox"/>	HS6 <input checked="" type="checkbox"/>	AC9 <input checked="" type="checkbox"/>	Refl 135 <input checked="" type="checkbox"/>	Refl 90	other					T _{AIR} = 12.9
Sampling information												
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	DIC	TSM	Samples at this station				
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation	
0				9	LYSGRØNN	OA-72			Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
5						OA-165			DIC	0,5,10,20,30	HgCl ₂	0,1 ml
10						NOVATER			Nitrogen + Fosfor	0,5,10,20,30	H ₂ SO ₄	1 ml
20						OA-167			Plankton	5, planktonet	Lugol	8 drops
30						OA-77			TSM, 1L	0,5,10,20,30	none	
50	<input checked="" type="checkbox"/>								Cdom	0,5,10,20,30	none	
75	<input checked="" type="checkbox"/>	NUT							C/N/P	0,5,10,20,30	Holdes kald	
100	<input checked="" type="checkbox"/>	NUT							DOC	0.5	H ₂ SO ₄	1 ml
125	<input checked="" type="checkbox"/>	NUT							Avvik / kommentarer			
150	<input checked="" type="checkbox"/>	NUT							Tidligere stasjonskode OF-1			
200	<input checked="" type="checkbox"/>	NUT							DOC + DIC + CDOM			
250	<input checked="" type="checkbox"/>	NUT							CTD type / name: No SAIIV			
300	<input checked="" type="checkbox"/>	NUT							NUT at 10 depths in jan, feb, jun, jul, aug, sep, nov			
400	<input checked="" type="checkbox"/>	NUT										
440	<input checked="" type="checkbox"/>	NUT										
Toktskjema sendes til ans@niva.no abl@niva.no cwf@niva.no												
S _R :	S _G :	S _B :	Sblack:									

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	I-1	Position	N E	
Project no	17250	Overvåkning Ytre Oslofjord 2017			Location		Hvaler	Ramsø		WGS84	59.109 11.002	
Dynamic information - Information to be noted for each trip												
Date	Observer	Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck	
10/10-18	ANS	vel.(m/s)	dir.(deg)	(m)	LT 1620	LT 1635		/8				
		9	202	51	UTC 1420	UTC 1435						
Optics	TRIOS X	LISST X	HS6 X	AC9 X	Refl 135 X	Refl 90 X	other					
Sampling information												
	Nitrogen	Fosfor	Klorofyll a	Siktdyp	Siktdyp	DOC	TSM	Samples at this station				
Dyp	100 ml	100 ml	2L	Dyp	Farge	100 ml		check	task	depth	conservation	
9 0	C895				2,5	BRUN			Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
6 2									Siktdyp		none	
5 5	C362								Nitrogen + Fosfor	0,5,10,20,30	H ₂ SO ₄ 1 ml	
6 10	Start tape								Plankton	5, planktonet	Lugol 8 drops	
3 20	F-94								TSM, 1L	0,5,10,20,30	none	
2 30	B977								Cdom	0.5	none	
Bottom 49m	D-355								C/N/P	0,5,10,20,30	Holdes kald	
									DOC	2	H ₂ SO ₄ 1 ml	
Avvik / kommentarer												
CTD type / name:												
Toktskjema sendes til ans@niva.no abl@niva.no cwf@niva.no												
S _R :	1,7	S _G :	1,8	S _B :	1	Sblack:	1					

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	S-9	Position	N	E
Project no	17250	Overvåkning Ytre Oslofjord 2017			Location	Hvaler		Haslau, singlefj.		WGS84	59.114	11.162
Dynamic information - Information to be noted for each trip												
Date	Observer		Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck
10/10-18	Ans		vel.(m/s)	dir.(deg)	(m)	LT 1710	LT		8/8			
			7.8	178		UTC	UTC 1527					
Optics	TRIOS	LISST	HS6	AC9	Refl 135	Refl 90	other					
Sampling information												
	Nitrogen	Fosfor	Klorofyll a	Siktdyp	Siktdyp	DOC	TSM	Samples at this station				
Dyp	100 ml	100 ml	2L	Dyp	Farge	100 ml		check	task	depth	conservation	
2				4,5	GUL GRØNN				Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
5									Siktedyp		none	
10									Nitrogen + Fosfor	0,5,10,20,30	H ₂ SO ₄ 1 ml	
Bottom 91m									Plankton	5, planktonet	Lugol 8 drops	
									TSM, 1L	0,5,10,20,30	none	
									Cdom	0.5	none	
									C/N/P	0,5,10,20,30	Holdes kald	
									DOC	2	H ₂ SO ₄ 1 ml	
Avvik / kommentarer												
CTD type / name: NOSATU												
Sprungsjølet på 85-90 m 90m OXY ~ 48% 80m OXY ~ 72%												
Toktskjema sendes til ans@niva.no abl@niva.no cwf@niva.no												
S _R :	2,5	S _G :	3,0	S _B :	2,0	Sblack:	1,0	BK med ca. 20 L fra 0m				

LT = UTC + 2

Static information												
Country	Norway	Institute	NIVA	Ship	Trygve Braarud	Station Name	Station	VT65	Position	N	E	
Project no	18089	ØKOKYST Skagerrak				Oslofjorden	Missingene		WGS84	59.1867	10.6917	
Dynamic information - Information to be noted for each trip												
Date	Observer	Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck	
11/10-18	ANS	vel.(m/s)	dir.(deg)	(m)	LT 930	LT 1016	NICE!	0/8	0,2 m	✓	✓	
Optics	TRIOS	LISST	HS6	AC9	Refl 135	Refl 90	other				$T_{A,2} = 8,5^{\circ}\text{C}$	
Sampling information												
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station				
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation	
0				715	6UL6Rev				Klorofyll a, 2L	0,5,10,20,30	Holdes kald	
5									Siktedyp		none	
10									Nitrogen + Fosfor	0,5,10,20,30	H_2SO_4 1 ml	
20									Plankton	5, planktonet	Lugol 8 drops	
30									TSM, 1L	0,5,10,20,30	none	
									C/N/P	0,5,10,20,30	Holdes kald	
										H_2SO_4	1 ml	
Avvik / kommentarer												
									Tidligere stasjonskode OF-2			
50									CTD type / name:			
75												
100												
200												
250												
Toktskjema												
sendes til	ans@niva.no		abl@niva.no		cwf@niva.no							
S_R :	3:0	S_G :	4,5	S_B :	2,8	Sblack:	1,1					

Static information													
Country	Norway	Institute	NIVA	Ship	Trygve Braarud		Station Name	Station	VT2	Position	N	E	
Project no	18089	ØKOKYST Skagerrak			Location		Oslofjorden		Bastøy	WGS84	59.3587	10.5906	
Dynamic information - Information to be noted for each trip													
Date	Observer	Wind from		Eccodepth	Ankomsttid	Avgangstid	Weather	Sky	Sea-state	Ice	Wreck		
11/10-18	ANS	vel.(m/s)	dir.(deg)	(m)	LT 1120 UTC	LT UTC	NICE	3/8	0,1m	X	S		
Optics	TRIOS	LISST	HS6	AC9	Refl 135	Refl 90	other				$T_{A,12} = 9,7$		
Sampling information													
	CP vol	CN/CC vol	Klorofyll a	Siktdyp	Siktdyp	Oksygen	TSM	Samples at this station					
Dyp	ml	ml	ml	Dyp	Farge			check	task	depth	conservation		
0	11			7m	GREEN				Klorofyll a, 2L	0,5,10,20,30	Holdes kald		
5	24	6	789	10	12				Siktedyp		none		
10	5								Nitrogen + Fosfor	0,5,10,20,30	H_2SO_4 1 ml		
20	3								Plankton	5, planktonet	Lugol 8 drops		
30	1								TSM, 1L	0,5,10,20,30	none		
									C/N/P	0,5,10,20,30	none		
											Holdes kald		
											H_2SO_4 1 ml		
Avvik / kommentarer													
125											Stasjonen omtalt som Ytre Oslofjorden		
150											Tidligere stasjonskode OF-4		
200											CTD type / name		
250													
280													
Toktskjema													
sendes til ans@niva.no abl@niva.no cwf@niva.no													
S _R :	3,8	S _G :	5,0	S _B :	3,5	Sblack:	2,2						