

## MESOCOSM EXPERIMENTS (ALL PARTNERS EXCEPT NIB, SLOVENIA)

Partner	Variables measured	Sampling frequency	Total time	Notes	Data availability
SAMS	Clearance/filtration rates	0 and 48 hrs	48 hrs	July-Dec 2001 (exc. Nov) for farm and control biofilters	Available
SAMS	Dissolved Ammonium, Phosphate, Nitrate, Nitrite flux	0, 6, 12, 24 and 48 hrs	48 hrs	July-Dec 2001 (exc. Nov) for farm and control biofilters	Available
IMBC	Dissolved Ammonium, Phosphate, Nitrate, Nitrite, Silicates, Chlorophyll, O <sub>2</sub>	Every Hour (mesocom experiment)	5 hrs	August and November 2001. January, July, September and November 2002. Fish farm filters.	Available
IMBC	CHN, total phosphorus	Every Hour (mesocom experiment)	5 hrs	August and November 2001. January, July, September and November 2002. Fish farm filters.	July 2003
IMBC	Bacterial and cyanobacterial	Every Hour (mesocom experiment)	5 hrs	August and November 2001. January, July, September and November 2002. Fish farm filters.	Available except Nov 2002
IMBC	Dissolved Ammonium, Phosphate, Nitrate, Nitrite, Chlorophyll, Bacterial abundance (land based	Every Hour	24hrs	April, September and November 2001.	Available

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	mesocosm)				
IMBC	CHN (land based mesocosm)	Every Hour	24hrs	April, September and November 2001.	Available
IOLR	Clearance/filtration rates (microcosm)	Sampling at: $t_0$ , $t_2$ , $t_5$ , $t_{10}$ and $t_{20}$ .	20 minute runs	Jan, Feb, Apr 2002 for farm and control biofilters	pending FACscan analysis
IOLR	Dissolved Oxygen, Chl a, C/N ratios in particulate matter (microcosm)	*( $t_0$ - $t_{60}$ ) **( $t_0$ - $t_{20}$ )	*1h **20min	Jan and Feb 2003 for farm and control biofilters	Mar 2003

## MESOCOSM EXPERIMENTS (NIB, SLOVENIA)

All data are available

Serial no.	Date	Matrix	Sub-matrix	Numbers/duration	Notes
7	03.09.02 -	MECO	BACT	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
7	03.09.02 -	MECO	BAOC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
7	03.09.02 -	MECO	HPLC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
7	03.09.02 -	MECO	NUTR	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
7	03.09.02 -	MECO	ORGM	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long

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7	03.09.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours
7	04.09.02 -	MECO	BACT	8	One chamber, two phases, 4 sampling in 4 hours
7	04.09.02 -	MECO	BAOC	8	One chamber, two phases, 4 sampling in 4 hours
7	04.09.02 -	MECO	HPLC	8	One chamber, two phases, 4 sampling in 4 hours
7	04.09.02 -	MECO	NUTR	8	One chamber, two phases, 4 sampling in 4 hours
7	04.09.02 -	MECO	ORGM	8	One chamber, two phases, 4 sampling in 4 hours
7	04.09.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours
7	05.09.02 -	MECO	BACT	16	Two chambers, 2 phases, 4 hours of experiment per phase, 4 samplings (every hour)
7	05.09.02 -	MECO	BAOC	16	Two chambers, 2 phases, 4 hours of experiment per phase, 4 samplings (every hour)
7	05.09.02 -	MECO	HPLC	16	Two chambers, 2 phases, 4 hours of experiment per phase, 4 samplings (every hour)
7	05.09.02 -	MECO	NUTR	16	Two chambers, 2 phases, 4 hours of experiment per phase, 4 samplings (every hour)
7	05.09.02 -	MECO	ORGM	16	Two chambers, 2 phases, 4 hours of experiment per phase, 4 samplings (every hour)
7	05.09.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours
6	13.08.02 -	MECO	BACT	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
6	13.08.02 -	MECO	BAOC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
6	13.08.02 -	MECO	HPLC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
6	13.08.02 -	MECO	NUTR	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
6	13.08.02 -	MECO	ORGM	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
6	13.08.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours

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3	20.11.01 - 22.11.01	MECO	BAOC	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
3	20.11.01 - 22.11.01	MECO	HPLC	24 hours 2x	There were two measurements: one on the control station and the second on the cage position
3	20.11.01 - 22.11.01	MECO	NUTR	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
3	20.11.01 - 22.11.01	MECO	ORGM	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
3	20.11.01 - 22.11.01	MECO	RESP	24 hours 2x	There were two measurements: one on the control station and the second on the cage position
8	24.09.02 -	MECO	BACT	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
8	24.09.02 -	MECO	BAOC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
8	24.09.02 -	MECO	HPLC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
8	24.09.02 -	MECO	NUTR	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
8	24.09.02 -	MECO	ORGM	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long
8	24.09.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours
8	25.09.02 -	MECO	BACT	16	2 chambers (2 BFs), two phases (light, dark), every hour, one phase is 4 hours long
8	25.09.02 -	MECO	BAOC	16	2 chambers (2 BFs), two phases (light, dark), every hour, one phase is 4 hours long
8	25.09.02 -	MECO	HPLC	16	2 chambers (2 BFs), two phases (light, dark), every hour, one phase is 4 hours long
8	25.09.02 -	MECO	NUTR	16	2 chambers (2 BFs), two phases (light, dark), every hour, one phase is 4 hours long
8	25.09.02 -	MECO	ORGM	16	2 chambers (2 BFs), two phases (light, dark), every hour, one phase is 4

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					hours long
8	25.09.02 -	MECO	RESP	2 x 2 x 4 !!	
2	26.09.01 - 28.09.01	MECO	BAOC	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
2	26.09.01 - 28.09.01	MECO	HPLC	24 hours 2x	There were two measurements: one on the control station and the second on the cage position. 5 samplings in 24 hours on control station. 5 samplings in 24 hours on the cage
2	26.09.01 - 28.09.01	MECO	NUTR	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
2	26.09.01 - 28.09.01	MECO	ORGM	24 hours 2x	5 samplings in 24 hours on control station, 5 samplings in 24 hours on the cage
2	26.09.01 - 28.09.01	MECO	RESP	24 hours 2x	There were two measurements: one on the control station and the second on the cage position
8	26.09.02 -	MECO	BACT	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long, in front of MBP
8	26.09.02 -	MECO	BAOC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long, in front of MBP
8	26.09.02 -	MECO	HPLC	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long, in front of MBP
8	26.09.02 -	MECO	NUTR	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long, in front of MBP
8	26.09.02 -	MECO	ORGM	16	2 chambers (blank, biofilter), two phases (light, dark), every hour, one phase is 4 hours long, in front of MBP
8	26.09.02 -	MECO	RESP	2 x 2 x 4	2 chambers, 2 phases, 4 hours, in front of MBP
1	30.07.01 - 09.08.01	MECO	ENRI	4	Four samplings during the entire period. Parameters: pigments, nutrients, bacterial production

NIB Matrix explanation:

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WACO - Water column  
MECO - Mesocosm experiment  
BIOF - Biofilter  
TRAP - Sediment traps  
VERT - Vertical CTD  
ADCP - Currents  
SEDI - Sediment

NIB Sub-matrix explanation:

NUTR - Nutrients  
ORGM - Organic matter; Total suspended matter, Organic C, Organic N  
BACT - Bacterial production  
HPLC - Pigments  
RESP - Respirometry  
TAXO - Taxonomy  
ENRI - Enrichment  
BAOC - Temperature, Salinity, Density, Total CO<sub>2</sub>, Alkalinity, pH, Suspended matter,  
Dissolved oxygen, Saturation of Dissolved oxygen

## ROUTINE FIELDWORK (ALL PARTNERS EXCEPT NIB, SLOVENIA)

Partner	Variables measured	Dates	Notes	Data available
SAMS	Identification, abundance and biomass calculation of major groups	July–Dec 2001 (exc. Nov)	Farm and control biofilters (mesh filters)	Available
SAMS	Identification and biomass calculation of major groups <u>for different depths</u> (6, 8, 11 and 15 m)	July 2002	Farm biofilter only (mesh filters)	Available
SAMS	Identification, abundance and biomass calculation of major groups	July 2002 to present	Farm and control biofilters (mussel lines)	Available except Nov 2002
SAMS	Identification and biomass calculation of major groups <u>for different depths</u> (6, 8, 11 and 15 m)	July 2002 to present	Farm biofilter only (mussel lines)	Available except Nov 2002
SAMS	Bathymetry and sediment type surveys	-		Available
IMBC	Photographs and video analysis (In situ photographs & video, lab photographs)	August and November 2001. January, July, September and November 2002.	Farm biofilter only	Available

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IMBC	Macro fauna analysis (Biomass, cover)	August and November 2001. January, July, September and November 2002.	Farm biofilter only	Available
IMBC	Site description (CTD profiles, wind speed and direction, current speed and direction)	contiguous	Fish Farm	Available
IMBC	Bioassay (Chl a)	February and July 2003	Fish farm	August 2003
IMBC	Macro fauna analysis (Abundance, species)	August and November 2001. January, July, September and November 2002.	Farm biofilter only	Available except Nov 2002
IOLR	Biomass and proximate analysis of the communities associated	Oct 2001-June 2002	Fish farm and control biofilters	Available
IOLR	Biomass calculation of major groups	Oct 2001-June 2002	With EHUD's group	Available
IOLR	Bathymetry and sediment type surveys			Available



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Haifa	Identification, abundance and biomass calculation of major groups	July–Dec 2001	Farm and control biofilters (mesh filters)	Available
Haifa	Identification and biomass calculation of major groups for different depths	July 2002	Farm biofilter only (mesh filters)	Available only for 8 m
Haifa	Identification, abundance and biomass calculation of major groups	July 2002 to present	Farm and control biofilters (mussel lines)	Partly available except for last sampling (Dec 2002)
Haifa	Identification and biomass calculation of major groups <u>for different depths</u>	July 2002 to present	Farm biofilter only (mussel lines)	Partly available except for last sampling (Dec 2002)
IJS	$^{13}\text{C}/^{12}\text{C}$ , $^{15}\text{N}/^{14}\text{N}$ in sediment	At the installation of biofilters (June 2001)	At the farm, reference sites Crete, Eilat, Oban, Piran	available
	$^{13}\text{C}/^{12}\text{C}$ , $^{15}\text{N}/^{14}\text{N}$ in POM collected in traps at the cages and at reference sites	May 2001, May, July, November 2002  July 2001, October 2002 May, September 2001, March,	Crete  Eilat  Oban	Available  Available  Available

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		May, August, September 2002		
		July, August, September, November 2001, August, September, October 2002	Piran	Available
	$^{13}\text{C}/^{12}\text{C}$ , $^{15}\text{N}/^{14}\text{N}$ in organisms from biofilters at the cages and at reference sites	<u>Bryozoa</u> September 2001, June, July, November 2002  <u>Bivalvae (Pteria aegyptiaca)</u> : May 2001, April 2002, September 2002, January 2003  <u>Tunicate</u> September 2001, September 2002, January 2003	CRETE; in 2002 only at the cages  EILAT	Available  Available Feb. 2003  Available Available Feb. 2003

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	<u>Sea anemone</u> , September 2001	Available
	<u>Bryozoa</u> , May 2002, September 2002	Available
	<u>Thyrosopus fruticosus</u> , May 2002	Available
	<u>Hydrozoa</u> , September 2002	Available
	<u>Worms</u> , May 2002	Available
	<u>Serpulidae</u> , September 2002	Available
	<u>Sponge</u> , May, September, October 2002 January 2003	Available available Feb. 2003
	<u>Algae</u> (Jania sp.)	Available

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		<p>october 2002</p> <p>Scalops, May 2002</p> <p>Tunicates September, November, December2001, May 2002</p> <p>Tunicate September 2002</p> <p>Bryozoa July, September, November 2001</p>	<p>OBAN</p> <p>No control sample in May 2002</p> <p>PIRAN</p>	<p>Available</p> <p>Available</p> <p>Available</p> <p>Available</p>
IJS	$^{13}\text{C}/^{12}\text{C}$ , $^{15}\text{N}/^{14}\text{N}$ in fish feed and faeces		Crete, Eilat, Oban, Piran	Available

## ROUTINE FIELDWORK (NIB, SLOVENIA)

All data are available

Serial no.	Date	Matrix	Sub-matrix	Numbers/duration	Notes
5	20.06.02 -	SEDI			Sediment cores
1	02.08.01 - 03.08.01	TRAP	HPLC	24 hours	Sediment traps were deployed on both stations, depth 8m
1	02.08.01 - 03.08.01	TRAP	ORGM	24 hours 2x	Both stations
7	04.09.02 -	TRAP	ORGM	2	One station on the farm, one station in front of MBP, 3 replicates
0	05.07.01 -	TRAP	HPLC	24 hours	Sediment traps were deployed on both stations, depth 8m
0	05.07.01 -	TRAP	ORGM	24 hours	Sediment traps were deployed on both stations, depth 8m
6	13.08.02 -	TRAP	HPLC		Depth: 5m
6	13.08.02 -	TRAP	ORGM	1	3 replicates on the same station (cage)
3	20.11.01 - 22.11.01	TRAP	HPLC	24 hours	Sediment traps were deployed on both stations, depth 8m
3	20.11.01 - 22.11.01	TRAP	ORGM	24 hours 2x	Both stations
8	24.09.02 -	TRAP	ORGM	2	One station on the farm, one station in front of MBP, 2 replicates
2	26.09.01 - 28.09.01	TRAP	HPLC	24 hours	Sediment traps were deployed on both stations, depth 8m
2	26.09.01 - 28.09.01	TRAP	ORGM	24 hours 2x	Both stations
1	02.08.01 - 03.08.01	VERT		2	00SL, 00CL
7	03.09.02 -	VERT		2	Beginning and the end of the experiment
7	04.09.02 -	VERT		2	Beginning and the end of the experiment

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0	05.07.01 -	VERT		2	00SL, 00CL
7	05.09.02 -	VERT		2	Beginning and the end of the experiment
6	13.08.02 -	VERT		2	Beginning and the end of the experiment
3	20.11.01 - 22.11.01	VERT		2	00SL, 00CL
8	24.09.02 -	VERT		2	Beginning and the end of the experiment
8	25.09.02 -	VERT		2	Beginning and the end of the experiment
2	26.09.01 - 28.09.01	VERT		2	00SL, 00CL
8	26.09.02 -	VERT		2	Beginning and the end of experiment. In front of MBP.
1	02.08.01 -	WACO	ADCP	24 hours	Continuous
1	02.08.01 -	WACO	BACT	6	Both stations (00SL, 00CL), 3 depths: 5, 8, 11
1	02.08.01 -	WACO	BAOC	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
1	02.08.01 -	WACO	NUTR	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
1	02.08.01 - 03.08.01	WACO	HPLC	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
1	02.08.01 - 03.08.01	WACO	ORGM	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
7	03.09.02 -	WACO	BACT	4	Depth: 0, 5, 10, bottom, near the cage
7	03.09.02 -	WACO	BAOC	4	Depth: 0, 5, 10, bottom, near the cage
7	03.09.02 -	WACO	HPLC	4	Depth: 0, 5, 10, bottom, near the cage
7	03.09.02 -	WACO	NUTR	4	Depth: 0, 5, 10, bottom, near the cage
7	03.09.02 -	WACO	ORGM	4	Depth: 0, 5, 10, bottom, near the cage

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0	05.07.01 -	WACO	BACT	6	Both stations (00SL, 00CL), 3 depths: 5, 8, 11
0	05.07.01 -	WACO	BAOC	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
0	05.07.01 -	WACO	HPLC	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
0	05.07.01 -	WACO	NUTR	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
0	05.07.01 -	WACO	ORGM	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
6	13.08.02 -	WACO	BACT	4	Depth: 0, 5, 10, bottom, near the cage
6	13.08.02 -	WACO	BAOC	4	Depth: 0, 5, 10, bottom, near the cage
6	13.08.02 -	WACO	HPLC	4	Depth: 0, 5, 10, bottom, near the cage
6	13.08.02 -	WACO	NUTR	4	Depth: 0, 5, 10, bottom, near the cage
6	13.08.02 -	WACO	ORGM	4	Depth: 0, 5, 10, bottom, near the cage
5	20.06.02 -	WACO	BACT	4	Depth: 0, 5, 10, bottom, near the cage
5	20.06.02 -	WACO	BAOC	4	Depth: 0, 5, 10, bottom, near the cage
5	20.06.02 -	WACO	HPLC	4	Depth: 0, 5, 10, bottom, near the cage
5	20.06.02 -	WACO	NUTR	4	Depth: 0, 5, 10, bottom, near the cage
5	20.06.02 -	WACO	ORGM	4	Depth: 0, 5, 10, bottom, near the cage
3	20.11.01 -	WACO	BACT	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
3	20.11.01 - 22.11.01	WACO	ADCP	24 hours	Continuous
3	20.11.01 -	WACO	BAOC	5	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed

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	22.11.01				at control station and at the cage. There were 3 replicates on the depth of 8m.
3	20.11.01 - 22.11.01	WACO	HPLC	5 x 3 x 2	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
3	20.11.01 - 22.11.01	WACO	NUTR	5	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
3	20.11.01 - 22.11.01	WACO	ORGM	5 x 3 x 2	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
8	24.09.02 -	WACO	BACT	4	Depth: 0, 5, 8, bottom
8	24.09.02 -	WACO	BAOC	4	Depth: 0, 5, 8, bottom
8	24.09.02 -	WACO	HPLC	4	Depth: 0, 5, 8, bottom
8	24.09.02 -	WACO	NUTR	4	Depth: 0, 5, 8, bottom
8	24.09.02 -	WACO	ORGM	4	Depth: 0, 5, 8, bottom
2	26.09.01 -	WACO	BACT	6	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
2	26.09.01 - 28.09.01	WACO	ADCP	24 hours	Continuous
2	26.09.01 - 28.09.01	WACO	BAOC	5	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
2	26.09.01 - 28.09.01	WACO	HPLC	5 x 3 x 2	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
2	26.09.01 - 28.09.01	WACO	NUTR	5	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.



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2	26.09.01 - 28.09.01	WACO	ORGM	5 x 3 x 2	Stratified sampling on 3 depths: 5, 8, 11m. Sampling was performed at control station and at the cage. There were 3 replicates on the depth of 8m.
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NIB Matrix explanation:

WACO - Water column

MECO - Mesocosm experiment

BIOF - Biofilter

TRAP - Sediment traps

VERT - Vertical CTD

ADCP - Currents

SEDI - Sediment

NIB Sub-matrix explanation:

NUTR - Nutrients

ORGM - Organic matter; Total suspended matter, Organic C, Organic N

BACT - Bacterial production

HPLC - Pigments

RESP - Respirometry

TAXO - Taxonomy

ENRI - Enrichment

BAOC - Temperature, Salinity, Density, Total CO<sub>2</sub>, Alkalinity, pH, Suspended matter, Dissolved oxygen, Saturation of Dissolved oxygen

## INTENSIVE FIELDWORK

Partner	Variables measured	Sampling frequency	Total time	Notes	Data available
SAMS	Dissolved Ammonium, Phosphate, Nitrate, Nitrite, Chlorophyll, CHN	Every 3 hours	48 hrs	Measurements at 0.5, 10, 20 and 40 m at farm and control biofilters	Available except CHN and Chlorophyll
SAMS	ADCP, DGPS drifters and wind measurements	10 minute interval	48 hrs	Measurements at farm and control biofilter locations	Available
IOLR	Eilat workshop: Hydrography, Temperature, pH, DO, Ammonium, Phosphate, Nitrate, Nitrite, Chlorophyll a, HPLC pigments, TSS, C/N of TSS, abundance of heterotrophic and cyano bacteria, bacterial production	Every 4 hrs (hydrography measurements- 1 minute interval)	48 hrs	Measurements at farm and control biofilter locations Hydrography measurements at 3 locations (in, under and 80 m from cages)	February 2003