

**An Activity of MAMA Workpackage 1
in collaboration with EDIOS**

Questionnaire on marine monitoring activities in the Mediterranean

Annex 1.

CODE OF PARAMETERS

CODE	NAME	UNIT
ABCP	ALPHA BETA CAROTENES	milligram/m ³
ALKW	ALKALINITY	micromole/kg
ALKY	ALKALINITY	millimole/m ³
AMIS	SEDIMENT AMINO-ACIDS	microgram/g
AMON	AMMONIUM (NH ₄ -N) CONTENT	millimole/m ³
AMOW	AMMONIUM (NH ₄ -N) CONTENT	nanomole/kg
ASDW	ABSORPTION STANDARD DEVIATION	milligram/m ³
ATMP	ATMOSPHERIC PRESSURE	millibars
ATMS	ATMOSPHERIC PRESSURE - SEA LEV	millibar
AXAP	ALLOXANTHINE	milligram/m ³
BATH	BATHYMETRIC DEPTH	meter
BCCS	BACTERIA NUMBER SEDIMENT	10 ⁺⁹ cell/dm ³
BCCW	NUMBER OF BACTERIA CELLS SW	10 ⁺⁹ cell/m ³
BCMW	BACTERIAL BIOMASS IN SEA WATER	milligram C/m ³
BFUP	19'BUTANOYLOXYFUOXANTHINE	milligram/m ³
C13D	DELTA 13C (13C/12C)	per thousand
C1UW	14C UPTAKE 0.2-1 MICRON	milligram carbon/(m ³ .day)
CA14	CARBON 14	0.1mg C/m ³ /jour
CDFW	DARK FIXATION	milligram carbon/(m ³ .day)
CE1W	DISSOLVED CFC11 ERROR	picomole/kg
CE2W	DISSOLVED CFC12 ERROR	picomole/kg
CE3W	DISSOLVED CFC113 ERROR	picomole/kg
CF1W	DISSOLVED CFC11	picomole/kg
CF2W	DISSOLVED CFC12	picomole/kg
CF3W	DISSOLVED CFC113	picomole/kg
CH1P	CHL-A(LESS DIVINYLCHL-A)	milligram/m ³
CH1T	CHLOROPHYLL TOTAL	microgram/kg
CH2P	CHL-B(LESS DIVINYLCHL-B)	milligram/m ³
CHAD	DIVINYL CHLOROPHYLL-A	milligram/m ³
CHAE	EPIMERE CHLOROPHYLL-A	milligram/m ³
CHAF	CHLOROPHYLL-A VERTICAL FLUX	milligram/(m ² .day)
CHBD	DIVINYL-CHLOROPHYLL-B	milligram/m ³
CHC3	CHLOROPHYLL-C3	milligram/m ³
CHCZ	CHLOROPHYLL-C1+C2	milligram/m ³
CHLB	CHLOROPHYLL-B TOTAL	milligram/m ³
CHLC	CHLOROPHYLL-C TOTAL	milligram/m ³

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CHLT	CHLOROPHYLL-TOTAL	milligram/m ³
CHTF	PART. TOTAL CARBOHYDRATES	milligram/(m ² .day)
CHTS	SEDIMENT CARBOHYDRATES	microgram/g
CICW	NUMBER OF SW CILIATES	10 ⁺³ cell/m ³
CL4W	DISSOLVED C-TETRACHLORIDE	picomole/kg
CLAY	CLAY IN THE SEDIMENT	%
CNDC	ELECTRICAL CONDUCTIVITY	millimho/centimeter
CO2W	DISSOLVED CARBON DIOXYD (CO ₂)	millimole/m ³
CO3F	PART. CaCO ₃ FLUX	milligram/(m ² .day)
CO3P	CARBONATES CONTENT	%
CO3S	SEDIMENT CARBONATES	%
COCW	NUMBER OF SW COCCOLITHOPHORIDS	10 ⁺³ cell/m ³
CODW	CHEMICAL OXYGEN DEMAND	millimole/m ³
COPF	COCCOLITHOPHORIDAE PPC FLUX	milligram C/(m ² .day)
COPP	NUMBER OF COPEPODS	number/m ³
CORG	DISSOLVED ORGANIC CARBON	millimole/m ³
CPH1	CHLOROPHYLL-A TOTAL	milligram/m ³
CPH2	CHLOROPHYLL-A TOTAL	milligram/m ³
CPH3	CHLOROPHYLL-A/2 MICRON FILTER	milligram/m ³
CPH4	CHLOROPHYLL-A/20 MICRON FILTER	milligram/m ³
CPHL	CHLOROPHYLL-A TOTAL	milligram/m ³
CUPW	14C PRODUCTION UNKNOWN FILTER	milligram carbon/(m ³ .day)
D13C	DELTA 13 C SIGNATURE	%
DATE	DATE	mmdd
DAYS	DAY WITHIN YEAR	decimal day
DAYX	DAY WITHIN MONTH	dd
DCAW	DARK CARBON ABSORPTION	milligram/m ³
DENS	DENSITY (Sigma-theta)	kg/m ³
DEPH	DEPTH BELOW SEA SURFACE	meter
DFCW	NUMBER OF SW DINOFLAGELLATES	10 ⁺³ cell/m ³
DFPF	DINOFLAGELLATES PPC FLUX	milligram C/(m ² .day)
DIPF	DIATOMS PPC FLUX	milligram C/(m ² .day)
DOPW	DISSOLVED ORGANIC PHOSPHORUS	millimole/m ³
DOX1	DISSOLVED OXYGEN	ml/l
DOX2	DISSOLVED OXYGEN	micromole/kg
DOXY	DISSOLVED OXYGEN	millimole/m ³
DPS1	DEPTH BELOW BOTTOM-LOWER LIMIT	meter
DPSF	DEPTH BELOW SEA FLOOR	meter
DRDD	DURATION (DAYS)	ddd
DRYT	DRY BULB TEMPERATURE	Celsius degree
DTCW	NUMBER OF SW DIATOMS	10 ⁺³ cell/m ³
DXAP	DIADINOXANTHINE	milligram/m ³
EF1W	DISSOLVED CFC11 ERROR	%

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EF2W	DISSOLVED CFC12 ERROR	%
EF3W	DISSOLVED CFC113 ERROR	%
EPMP	TOTAL SUSP. PART. MATTER/ESTER	gram/m ³
ETDD	ELAPSED TIME	decimal days
ETHP	PARTICULATE 234 TH ACT. ERROR	Bq/m ³
ETHW	DISSOLVED 234 TH ACT. ERROR	Bq/m ³
EWCS	CURRENT EAST STD. DEVIATION	meter/second
EWCT	CURRENT EAST COMPONENT	meter/second
FCO2	CO2 FUGACITY	microatome
FLPF	FLAGELLATES PPC FLUX	milligram C/(m ² .day)
FLU1	FLUORESCENCE	volt
FLU2	FLUORESCENCE	milligram/m ³
FLUO	FLUORESCENCE	relative unit
FUCP	FUCOXANTHINE	milligram/m ³
GLUC	GLUCIDE	milligram/m ³
GPMP	TOTAL SUSP. PART. MATTER/GLASS	gram/m ³
GSPD	GUST WIND SPEED	meter/second
H2OS	WATER CONTENT	%
HBAW	NB OF HETEROTROPHIC BACTERIA	10 ⁺⁶ cell/m ³
HCDT	DIRECTION REL. TRUE NORTH	degree
HCSP	HORIZONTAL CURRENT SPEED	meter/second
HEAD	PLATFORM HEADING REL. NORTH	degree
HEDE	ISOTOPIC RATIO ERROR	%
HEDW	DEVIATION OF ISOTOPIC RATIO	%
HEEW	DISSOLVED HELIUM ERROR	nanomole/kg
HELD	DELTA HELIUM 3	%
HELW	DISSOLVED HELIUM	nanomole/kg
HFUP	19'HEXANOYLOXYFUCOXANTHINE	milligram/m ³
HSUL	HYDROGEN SULPHIDE (H ₂ S)	millimoles/m ³
IODI	IODINE	millimole/m ³
LATD	LATITUDE DEGREES	degree
LATM	LATITUDE MINUTES	minute
LATX	LATITUDE	decimal degree
LCAW	LIGHT CARBON ABSORPTION	milligram/m ³
LGH3	LIGHT IRRADIANCE CORRECTED PAR	micromole photon/(m ² .s)
LGH4	LIGHT IRRADIANCE SURFACE PAR	micromole photon/(m ² .s)
LGH5	IMMERGED/SURF IRRADIANCE RATIO	%
LGHT	LIGHT IRRADIANCE IMMERGED PAR	micromole photon/(m ² .s)
LINC	LONG-WAVE INCOMING RADIATION	watt/m ²
LIPI	LIPIDS IN THE WATER COLUMN	milligram/m ³
LIPS	SEDIMENT LIPIDS	microgram/g
LOND	LONGITUDE DEGREES	degree
LONM	LONGITUDE MINUTES	minute

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LONX	LONGITUDE	decimal degree
LSCT	LIGHT SCATTERING	%
LSIC	LITHOGENIC CONTENT	%
LTHF	LITHOGENIC FRACTION FLUX	milligram/(m2.day)
LTUW	LEUCINE UPTAKE RATE	microgram carbon/(m3.h)
MALF	AL FLUX IN SETTLING PARTICLES	milligram/(m2.day)
MALP	AL IN SPM	milligram/m3
MALS	Al IN THE SEDIMENT	%
MBAP	BA IN SPM	milligram/m3
MBAS	Ba IN THE SEDIMENT	ppm
MBRS	Br IN THE SEDIMENT	ppm
MCAP	CA IN SPM	milligram/m3
MCAS	Ca IN THE SEDIMENT	%
MCES	Ce IN THE SEDIMENT	ppm
MCLP	CL IN SPM	milligram/m3
MCRS	Cr IN THE SEDIMENT	ppm
MCUF	CU FLUX IN SETTLING PARTICLES	microgram/(m2.day)
MCUS	Cu IN THE SEDIMENT	ppm
MFEF	FE FLUX IN SETTLING PARTICLES	milligram/(m2.day)
MFEP	FE IN SPM	milligram/m3
MFES	Fe IN THE SEDIMENT	%
MIIS	I IN THE SEDIMENT	ppm
MKKP	K IN SPM	milligram/m3
MKKS	K IN THE SEDIMENT	%
MLAS	La IN THE SEDIMENT	ppm
MMGP	MG IN SPM	milligram/m3
MMGS	Mg IN THE SEDIMENT	%
MMNF	MN FLUX IN SETTLING PARTICLES	microgram/(m2.day)
MMNP	MN IN SPM	milligram/m3
MMNS	Mn IN THE SEDIMENT	%
MMOS	Mo IN THE SEDIMENT	ppm
MNAS	Na IN THE SEDIMENT	%
MNBS	Bs IN THE SEDIMENT	ppm
MNDS	Nd IN THE SEDIMENT	ppm
MNIS	Ni IN THE SEDIMENT	ppm
MNTH	MONTH	mm
MPBF	PB FLUX IN SETTLING PARTICLES	microgram/(m2.day)
MPBS	Pb IN THE SEDIMENT	ppm
MPPP	P IN SPM	milligram/m3
MPPS	P IN THE SEDIMENT	%
MRBS	Rb IN THE SEDIMENT	ppm
MSCS	Sc IN THE SEDIMENT	ppm
MSDP	MEAN SPHERIC DIAM. OF PARTICLE	millimeter

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MSIP	SI IN SPM	milligram/m3
MSIS	Si IN THE SEDIMENT	%
MSMP	MEAN SPHERIC DIAM. MEDIAN	millimeter
MSRS	Sr IN THE SEDIMENT	ppm
MSSP	S IN SPM	milligram/m3
MSZW	MESOOZOPLANCTON DRY WEIGHT	milligram/m3
MTHS	Th IN THE SEDIMENT	ppm
MTIP	TI IN SPM	milligram/m3
MTIS	Ti IN THE SEDIMENT	%
MUUS	U IN THE SEDIMENT	ppm
MVVS	V IN THE SEDIMENT	ppm
MYYS	Y IN THE SEDIMENT	ppm
MZNF	ZN FLUX IN SETTLING PARTICLES	microgram/(m2.day)
MZNS	Zn IN THE SEDIMENT	ppm
MZRS	Zr IN THE SEDIMENT	ppm
N15D	DELTA 15N (15N/14N)	per thousand
NAVG	AVERAGED DATA CYCLE NUMBER	number
NEEW	DISSOLVED NEON ERROR	nanomole/kg
NEOW	DISSOLVED NEON	nanomole/kg
NETR	NET RADIATION	watt/m2
NFCW	NUMBER OF SW NANOFLAGELLATES	10+3 cell/m3
NHRW	AMMONIUM REGENERATION	micromole nitrogen/(m3.day)
NHUW	AMMONIUM UPTAKE	micromole nitrogen/(m3.day)
NODW	DISSOLVED ORGANIC NITROGEN	micromole/kg
NORG	DISSOLVED ORGANIC NITROGEN	millimole/m3
NORW	NITRIFICATION	micromole nitrogen/(m3.day)
NOTT	TOTAL ORGANIC NITROGEN (D+P)	micromole/kg
NOUW	NITRATE UPTAKE	micromole nitrogen/(m3.day)
NSCS	CURRENT NORTH STD. DEVIATION	meter/second
NSCT	CURRENT NORTH COMPONENT	meter/second
NT1P	TOTAL PARTICULATE NITROGEN	micromole/kg
NTAW	NITRATE (NO3-N) CONTENT	micromole/kg
NTIW	NITRITE (NO2-N) CONTENT	micromole/kg
NTOT	TOTAL NITROGEN (N) CONTENT	millimole/m3
NTRA	NITRATE (NO3-N) CONTENT	millimole/m3
NTRI	NITRITE (NO2-N) CONTENT	millimole/m3
NTRZ	NITRATE + NITRITE CONTENT	millimole/m3
NTZW	NITRATE + NITRITE CONTENT	micromole/kg
NUMP	NUMBER OF PARTICLES	number/m3
OMMF	PART. ORGANIC MATTER FLUX	milligram/(m2.day)
OPAP	OPAL CONTENT	%
OSMP	ORGANIC SUSPENDED MATTER	g/m3
OXIR	ISOTOPIC RATIO O18/O16	per thousand

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PC1P	PARTICULATE ORGANIC CARBON/POC	millimole/m ³
PCEW	NUMBER OF SW PICOEUCARYOTES	10 ⁺⁶ cell/m ³
PERP	PERIDININE	milligram/m ³
PHCW	NUM. OF SW PHYTOPLANKTON CELLS	10 ⁺³ cell/m ³
PHEA	PHEOPHYTIN-A	milligram/m ³
PHNS	SEDIMENT PHENOLS	microgram/g
PHOS	PHOSPHATE (PO ₄ -P) CONTENT	millimole/m ³
PHOW	PHOSPHATE (PO ₄ -P) CONTENT	micromole/kg
PHPH	PH	pH unit
PHTF	PHAEOPIGMENTS VERTICAL FLUX	milligram/(m ² .day)
PHTP	TOTAL PHEOPHYTINE	milligram/m ³
PN1P	PARTICULATE ORGANIC NITROGEN	millimole/m ³
POCF	PART. ORGANIC CARBON FLUX	milligram/(m ² .day)
POCP	PARTICULATE ORGANIC CARBON/POC	milligram/m ³
PODW	DISSOLVED ORGANIC PHOSPHORUS	micromole/kg
PONP	PARTICULATE ORGANIC NITROGEN	milligram/m ³
POTT	TOTAL ORGANIC PHOSPHORUS (D+P)	micromole/kg
PP1P	PART. ORGANIC PHOSPHORUS (P)	millimole/m ³
PRCW	NUMBER OF SW PROCHLOROCOCCUS	10 ⁺⁶ cell/m ³
PREC	CORRECTED SEA PRESSURE	decibar=10000 pascals
PRES	SEA PRESSURE	sea surface=0 decibar=10000 pascals
PROT	PROTEIN	milligram/m ³
PRRT	PRECIPITATION RATE	millimeter/hour
PSAL	PRACTICAL SALINITY	P.S.U.
PT1P	TOTAL PARTICULATE PHOSPHORUS	micromole/kg
PTNP	PARTICULATE TOTAL NITROGEN	milligram/m ³
PTPP	PARTICULATE TOTAL PHOSPHORUS	milligram/m ³
PTZF	PROTOZOA PPC FLUX	milligram C/(m ² .day)
PXAP	PRASINOXANTHINE	milligram/m ³
RDIN	INCIDENT RADIATION	watt/m ²
REDS	REDOX POTENTIAL	millivolt
RELH	RELATIVE HUMIDITY	%
SACC	SALINITY ACCURACY	.
SAND	SAND IN THE SEDIMENT	%
SECS	SECONDS WITHIN MINUTE	ss
SILT	SILT IN THE SEDIMENT	%
SIOF	PART. BIOGENIC Si FLUX	milligram/(m ² .day)
SIOS	SEDIMENT BIOGENIC SiO ₂	%
SLCA	SILICATE (SiO ₄ -Si) CONTENT	millimole/m ³
SLCP	PART. ORGANIC SILICA (Si)	millimole/m ³
SLCW	SILICATE (SiO ₄ -Si) CONTENT	micromole/kg
SLEV	OBSERVED SEA LEVEL	meter
SNCW	NUMBER OF SW SYNECHOCOCCUS	10 ⁺⁶ cell/m ³

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SPDI	INDICATED PLATFORM SPEED-SHIP	meter/second
SSAL	SALINITY (PRE-1978 DEFN)	P.S.U.
SSPS	SEA SURFACE PRACTICAL SALINITY	P.S.U.
SSTM	MODEL SEA SURFACE TEMPERATURE	Celsius degree
SSTP	SEA SURFACE TEMPERATURE	Celsius degree
SVEL	SOUND VELOCITY	meter/second
SWDR	WAVE DIRECTION REL TRUE NORTH	degree
SWHT	SWELL HEIGHT	meter
TACC	TEMPERATURE ACCURACY	.
TCCF	PART. TOTAL CARBON FLUX	milligram/(m ² .day)
TCCS	SEDIMENT TOTAL CARBON	%
TDCW	TOTAL DISSOLVED CARBON	millimole/m ³
TDPW	TOTAL DISSOLVED PHOSPHORUS	millimole/m ³
TE01	SEA TEMPERATURE	Celsius degree
TE02	SEA TEMPERATURE	Celsius degree
TE03	SEA TEMPERATURE	Celsius degree
TE04	SEA TEMPERATURE	Celsius degree
TE05	SEA TEMPERATURE	Celsius degree
TE06	SEA TEMPERATURE	Celsius degree
TE07	SEA TEMPERATURE	Celsius degree
TE08	SEA TEMPERATURE	Celsius degree
TE09	SEA TEMPERATURE	Celsius degree
TE10	SEA TEMPERATURE	Celsius degree
TE11	SEA TEMPERATURE	Celsius degree
TE12	SEA TEMPERATURE	Celsius degree
TEMP	SEA TEMPERATURE	Celsius degree
TH4P	PARTICULATE 234TH ACTIVITY	Bq/m ³
TH4W	DISSOLVED 234TH	Bq/m ³
TICW	TOTAL INORGANIC CARBON	micromole/kg
TIME	TIME WITHIN DAY	hhmmss
TINW	DISSOLVED INORGANIC NITROGEN	millimole/m ³
TNNF	PART. TOTAL NITROGEN FLUX	milligram/(m ² .day)
TNNS	SEDIMENT TOTAL NITROGEN	%
TOCS	SEDIMENT TOTAL ORGANIC CARBON	%
TOCW	TOTAL ORGANIC CARBON	millimole/m ³
TOMP	ORGANIC MATTER CONTENT	%
TPAW	DISS. TRIPHOSPHATE ADENOSINE	milligram/m ³
TPHP	TOTAL PHAEOPIGMENTS	milligram/m ³
TPHS	TOTAL PHOSPHORUS (P) CONTENT	millimole/m ³
TREW	DISSOLVED TRITIUM ERROR	TU
TRIW	DISSOLVED TRITIUM	TU
TSMF	TOTAL MASS FLUX	milligram/(m ² .day)
TSPM	TOTAL SUSPENDED MATTER	g/m ³

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TUR0	LIGHT TRANSMISSION	%
TUR1	LIGHT DIFFUSION COEFFICIENT	m-1
TUR2	LIGHT ATTENUATION COEFFICIENT	m-1
TUR3	LIGHT TRANSMISSION	%
TUR4	TURBIDITY	N.T.U Nephelo Turb. Unit
TUR5	TURBIDITY	relative unit
TUR6	TURBIDITY	milliF.T.U Formaz Turb Unit
TXAP	DIATOXANTHINE	milligram/m3
UREA	UREA	millimole/m3
VCSP	VERTICAL CURRENT SPEED	meter/second
VERR	VELOCITY ERROR	meter/second
VERT	VERTICAL DISPLACEMENT	m
VOCP	VOLUME CONC. OF PARTICLES	p.p.m.
VTDH	SIGNIFICANT WAVE HEIGHT	meter
WDIR	WIND DIRECTION REL. TRUE NORTH	degree
WSPD	WIND SPEED	m/s
WSPE	WIND SPEED EASTWARD COMPONENT	meter/second
WSPN	WIND SPEED NORTHWARD COMPONENT	meter/second
YEAR	YEAR	yyyy
ZXAP	ZEAXANTHINE	milligram/m3