Terms used **revised in April 2026**

Item		Item ID	Description of Data item
Organization	Name (Organization)	0009	The name of the institution to which the person listed in #0004 belongs.
	Source of Data Collection	0004	If data is provided by other databases, please write the name of the database or the instituion of the database. It is not researcher's affiliation. For example, it is assumed that data collected by researchers is already included in other database and will be provided into AOMI.
	Region (Location)	0006	The name of the country or region where the organization to which the person listed in #0004 belongs is located. The country or region is the English name of ISO 3166-1.
	Type of Organization (Location code)	0011	Type of provider(1: University, 2: Other Research Institution, 3: Administrative Institution, 4: Educational Institution other than University, 5: NPO/NGO, 6: Other, respectively)
Reference	Reference	0014	Source of the material in which this data record appears.
	DOI	0016	DOI (Digital Object Identifier) for #0014.
Creative commons license		0018	Terms of Use. You can check the meaning of symbol (https://creativecommons.org/)
Ocean or Rivers/Lakes		0449	If this dataset is about microplastic in rivers/lakes, please input '1'.
Cruise name		0012	Name of voyage when the sample was taken.
Sampling ship	Ship name	0053	Name of vessel used for sample collection.
	Code	0055	Code of vessel used to collect the sample: either the vessel's registration number or the vessel's radio station call sign.
Sampling equipment	Type of equipment	0056	Name of the instrument used to collect the sample, such as the net type (e.g., Neuston net, Manta net) or alternative methods (pump sampling, bulk sampling)
	Model number and manufacturer	0058	Model number and manufacturer name of instrument used to collect the sample.
	Shape of water intake	0060	Shape of the water inlet (e.g., net open mouth, pump inlet).
	Width of water intake (Unit: m)	0062	Width of the water inlet, in meters.
	Height of water intake (Unit: m)	0064	Height of the water inlet in meters.
	Area of water intake (Unit: m2)	0066	Area of the water inlet.
	Length of net (Unit: m)	0068	Distance from the net opening to the end of the net. Do not include the length of any attached sample collection device, such as a cod-end.
	Mesh opening size (Unit: mm)	0070	Length of the open part of each mesh stitch in the net, excluding the closed portion formed by the mesh thread. The unit is mm. Recommended size is approximately 0.3 mm.
	Mesh opening measurement (Side or diagonal)	0072	Indicates whether the mesh opening (#0070) is measured along the side of the mesh or along the diagonal.
	Model number and manufacturer of mesh (Mesh Model)	0074	Net model number, manufacterer, standard, etc.
Sampling gear position	Sampling gear position	0094	Location of sampling device relative to the research vessel.
	Distance from vessel (Unit: m)	0096	Distance of sampling device from the research vessel in meters.
Sample name/ ID		0029	Name or unique identifier of the sample collected for monitoring.
Sampling time	Time difference from GMT (h)	0031	Local time difference from Greenwich Mean Time (GMT) for the times recorded in #0037 and #0039.
	Start date (YYYY-MM-DD)	0033	Date when sample collection began.
	Ene date (YYYY-MM-DD)	0035	Date when sample collection ended.
	Start time (hh:mm:ss)	0037	Time when sample collection began (24-hour format).
	End time (hh:mm:ss)	0039	Time when sample collection ended (24-hour format).
	Season	0041	Season in which the sample was taken.
Sampling Location	Sampling Location Name	0043	Name of the water body from which the sample was taken.
	Initial latitude (Latitude of start (decimal degrees))	0045	Latitudinal coordinates at the start of the sample collection, with positive values for north latitude and negative values for south latitude.
	Initial longitude (Longitude of start (decimal degrees))	0047	Longitude coordinates at the start of the sample collection, with positive values for east longitude and negative values for west longitude.
	Final latitude (Latitude of end (decimal degrees))	0049	Latitudinal coordinates at the end of the sampling, with positive values for north latitude and negative values for south latitude.
	Final longitude (Longitude of endt (decimal degrees))	0051	Longitude coordinates at the end of the sample collection, with positive values for east longitude and negative values for west longitude.
Sampling distance	Tow distance (Unit: m) (Sampling_Distance (m))	0076	Distance towed in meters. Guidelines recommend determining this using the flowmeter reading.
	Distance measurement method (Method of #0076)	0078	Method used to determine the distance towed. Guidelines recommend calculating it from the flowmeter reading.
	Calculation formulas	0080	Formula used in determining the distance towed.
Sampling area	Trawl sweep area (Unit: m2) (Sampling Area (m2))	0082	Area of the sea surface sampled in m2, calculated by multiplying the width of the water inlet (#0062) by the tow distance (#0076). Guidelines recommend a minimum area of 1,000 m².
	Calculation formulas	0084	Formula for the area of the sea surface swept in the tow (#0082).
Filtered water volume	Filtered water volume (Unit: m3)	0086	Volume of seawater filtered or sampled. Guidelines recommend measuring using a flowmeter. It can be calculated as the width of the water inlet (#0062) × tow distance (#0076) × depth of the sampling inlet (#0100). Recommended volume is 200–500 m³.
	Calculation formulas	0088	Formula for the amount of seawater filtered or collected (#0086).
Sampling duration	(hh:mm:ss)	0090	Time from the start to the end of sample collection. Periods when the net was replaced due to clogging or other issues are excluded.
Vessel speed	(Unit: knot)	0092	Velocity of the vessel relative to the water during sampling, measured in knots. Guidelines recommend 1–3 knots, and 1–2 knots for small vessels.
Depth of the water intake	Depth (Unit: m) (Lower end depth (m))	0098	Average depth at the bottom of the water inlet: for net sampling, the bottom of the net mouth; for pump sampling, the bottom of the sampling inlet; for bulk sampling, the depth at which the bucket is submerged. If sampling the surface layer, this depth is measured from the sea surface and is equal to or less than the height of the water inlet (#0064). If the surface layer was excluded, the sampled depth starts below the surface layer, from the surface minus the height of the inlet (#0064) to this depth.
	Depth change during sampling	0102	Indicates whether the water depth (#0098) at the bottom of the water inlet changed during sample collection.
Tow direction	Tow direction	0104	Sailing direction of the research vessel during sample collection.

Blank tests	Blank test performed	0106	Indicates whether a blank test was conducted during sample collection.
	Blank test results (particles/sample)	0108	Results of the blank test conducted during sample collection, expressed as the number of particles detected.
Weather, sea conditions, water quality	Wind direction	0110	Wind direction at the time of sample collection.
	Wind speed (Unit: m/s)	0112	Wind speed at the time of sampling, in m/s.
	Significant wave height (Unit: m)	0114	Significant wave height at the time of sampling, in meters. Calculated as the average of the highest one-third of waves observed. Guidelines recommend sampling when significant wave height is 0.5 m or less.
	Beaufort scale	0116	Integer from 0 to 12 indicating wind strength at the time of sampling; lower values correspond to calmer conditions. Guidelines recommend sampling at Beaufort scale 3 or less.
	Vessel movements	0118	Whether the ship was rocking at the time the sample was taken.
	Sea surface temperature (Unit: ℃)	0120	Sea surface temperature at the time of sample collection, in℃.
	Sea surface salinity (Unit: -)	0122	Sea surface salinity at the time of sample collection.
	Water current direction	0124	Direction of ocean current at the time of sample collection.
	Water current speed (Unit: knot)	0126	Velocity of ocean current at the time of sample collection, in knots.
Other types of water data	Quality 1	0128	Additional water quality parameter observed at the time of sample collection.
	Quality 2	0130	Additional water quality parameter observed at the time of sample collection.
	Quality 3	0132	Additional water quality parameter observed at the time of sample collection.
	Quality 4	0134	Additional water quality parameter observed at the time of sample collection.
State of floating debris on the sea surface (possible obstruction)		0136	Visual observation of suspended solids or floating debris during sample collection
Sample name/ ID		0029	Name of sample taken for monitoring, or its ID.
Sample splitting	Sample splitting conducted	0154	Indicates whether the collected sample was divided into portions for analysis.
	Sample splitting method details	0156	Specifies the method, details and equipment used to divide the sample.
	Estimated relative error range from splitting process	0158	Indicates the percentage or range of error introduced during the sample division process.
Biological digestion and chen	Whether biochemical or chemical treatment was conducted	0146	Indicates if a biological digestion or chemical treatment process was applied to break down natural organic matter in the sample.
	Methods used for digesting organic matter	0148	Specifies the biochemical or chemical method applied to break down natural organic matter in the sample.
	Temperature during processing (Unit: ℃)	0150	Temperature at the time of biochemical or chemical treatment, in degrees Celsius.
	Reaction time (Unit: min.)	0152	Reaction time for biochemical or chemical treatment, in minutes.
Density separation	Whether or not density separation was conducted	0138	Indicates whether plastic was separated from other materials based on differences in density
	Type of solution used for density separation	0140	Specifies the solution or solute used to separate plastics from other materials based on density differences.
	Concentration of solution for density separation (Unit: %)	0142	Concentration of solute used in the density separation, in %.
	Processing Time (Unit: min.)	0144	Standing time for density separation, in minutes
Isolation of microplastics	Pretreatment conducted	0160	Indicates whether or not pretreatment was performed to separate microplastics by size
	Type of pretreatment	0162	Specifies the pretreatment method used.
	Picking under stereomicroscope	0164	Indicates whether a stereomicroscope was used to pick microplastics.
Counting and measuring sizes	Method of size fractionation	0166	Specifies the method used to fractionate particles by size to count the number and weight. Guidelines recommend measuring the major axis of each particle. Alternatively, multiple sieves can be used for size fractionation.
Identification of polymer type	Polymer composition analysis conducted	0168	Indicates whether the polymer composition of the materials was analyzed.
	Method of polymer composition analysis	0170	Specifies the method used to analyze the polymer composition of the materials.
	Percentage of particles analyzed (Unit: %)	0172	Percentage of particles subjected to polymer composition analysis.
Weight measurement	Temperature of sample drying (Unit:℃)	0174	Temperature of drying process conducted prior to particle weight measurement, in °C.
	Humidity of sample drying (Unit: %)	0176	Water content before sample processing
	Processing time of sample drying (Unit: min.)	0178	Time, in minutes, of the drying process performed prior to particle weight measurement.
	Methods of weight measurement	0180	Specifies the method or equipment used to measure the weight of particles.
Blank tests	Whether blank tests were conducted	0182	Indicates whether a blank test was performed during laboratory analysis.
	Blank test results (Unit: particles/ sample)	0184	Number of particles detected in the blank test performed during laboratory analysis.
Spiked Recovery tests	Whether recovery tests were conducted	0186	Indicates whether a spiked recovery test was performed to assess particle recovery efficiency.
	Recovery test results (Unit: %)	0188	Percentage of particles recovered in the spiked recovery test, calculated as (final number of particles recovered/ inital number of particles) × 100.
Sample name/ ID		0029	Name or unique identifier of the sample collected for monitoring.
Number of plastic particles (Unit: particles/sample) (Total Number of Particles)	d < 5.0 mm	0190	Number of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm.
	1.0 mm ≤ d < 5.0 mm	0202	Number of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm.
	d < 1.0 mm	0214	Number of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm.
	5.0 mm ≤ d	0226	Number of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger.
Particle number density per filtered water volume (Unit: particles/m3) (Particle density_m3)	d < 5.0 mm	0192	Number density of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm, calculated as the number of particles (#0190) divided by the filtered water volume (#0086).

	1.0 mm ≤ d < 5.0 mm		0204	Number density of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm, calculated as the number of particles (#0202) divided by the filtered water volume (#0086).
	d < 1.0 mm		0216	Number density of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm, calculated as the number of particles (#0214) divided by the filtered water volume (#0086).
	5.0 mm ≤ d		0228	Number density of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger, calculated as the number of particles (#0226) divided by the filtered water volume (#0086).
Particle number density per trawl swept area (Unit: particles/km2) (Particle density_km2)	d < 5.0 mm		0194	Number of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm per unit area, calculated as the number of particles (#0190) divided by the sampled area (#0082) and converted from m² to km².
	1.0 mm ≤ d < 5.0 mm		0206	Number of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm per unit area, calculated as the number of particles (#0202) divided by the sampled area (#0082) and converted from m² to km².
	d < 1.0 mm		0218	Number of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm, per unit area, calculated as the number of particles (#0214) divided by the sampled area (#0082) and converted from m² to km².
	5.0 mm ≤ d		0230	Number of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger per unit area, calculated as the number of particles (#0226) divided by the sampled area (#0082) and converted from m² to km².
Weight of plastic particles (Unit: g/sample) (Total weight_g)	d < 5.0 mm		0196	Particle weight of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm.
	1.0 mm ≤ d < 5.0 mm		0208	Particle weight of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm.
	d < 1.0 mm		0220	Particle weight of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm in diameter.
	5.0 mm ≤ d		0232	Particle weight of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger.
Particle weight density per filtered water volume (Unit: g/m3) (Weight density_g/m3)	d < 5.0 mm		0198	Weight density of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm, calculated as particle weight (#0196) divided by filtered water volume (#0086).
	1.0 mm ≤ d < 5.0 mm		0210	Weight density of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm, calculated as particle weight (#0208) divided by filtered water volume (#0086).
	d < 1.0 mm		0222	Weight density of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm, calculated as particle weight (#0220) divided by filtered water volume (#0086).
	5.0 mm ≤ d		0234	Weight density of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger, calculated as particle weight (#0232) divided by filtered water volume (#0086).
Particle weight density per trawl swept area (Unit: g/km2) (Weight density_g/km2)	d < 5.0 mm		0200	Weight density of particles with the longest diameter (maximum Feret's diameter) of less than 5 mm per unit area, calculated as particle weight (#0190) divided by the sampled area (#0082) and converted from m² to km².
	1.0 mm ≤ d < 5.0 mm		0212	Weight density of particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm per unit area, calculated as particle weight (#0208) divided by the sampled area (#0082) and converted from m² to km².
	d < 1.0 mm		0224	Weight density of particles with the longest diameter (maximum Feret's diameter) of less than 1 mm per unit area, calculated as particle weight (#0220) divided by the sampled area (#0082) and converted from m² to km².
	5.0 mm ≤ d		0236	Weight density of particles with the longest diameter (maximum Feret's diameter) of 5 mm or larger per unit area, calculated as particle weight (#0232) divided by the sampled area (#0082) and converted from m² to km².
Percentage of particles by shape (Unit: %)	d < 5.0 mm	Shape category 1	0238	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) of less than 5 mm belonging to each shape category (1–5). If "Others" is selected in any shape category (1–5), ensure the sum of Shape Percentages 1–5 equals 100%.
		Shape_percentage 1	0240	
		Shape category 2	0242	
		Shape_percentage 2	0244	
		Shape category 3	0246	
		Shape_percentage 3	0248	
		Shape category 4	0250	
		Shape_percentage 4	0252	
		Shape category 5	0254	
		Shape_percentage 5	0256	
		Total	-	
	1.0 mm ≤ d < 5.0 mm	Shape category 1	0298	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm belonging to each shape category (1–5), expressed as a percentage of the total number of particles. If "Others" is selected in any category, ensure that the sum of Shape Percentages 1–5 equals 100%.
		Shape_percentage 1	0300	
		Shape category 2	0302	

		Shape_percentage 2	0304	
		Shape category 3	0306	
		Shape_percentage 3	0308	
		Shape category 4	0310	
		Shape_percentage 4	0312	
		Shape category 5	0314	
		Shape_percentage 5	0316	
		Total	-	
	d < 1.0 mm	Shape category 1	0358	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) less than 1 mm belonging to each shape category (1–5), expressed as a percentage of the total number of particles. If “Others” is selected in any category, ensure that the sum of Shape Percentages 1–5 equals 100%.
		Shape_percentage 1	0360	
		Shape category 2	0362	
		Shape_percentage 2	0364	
		Shape category 3	0366	
		Shape_percentage 3	0368	
		Shape category 4	0370	
		Shape_percentage 4	0372	
		Shape category 5	0374	
		Shape_percentage 5	0376	
		Total	-	
Percentage per material (Unit: %)	d < 5.0 mm	Material category 1	0258	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) of less than 5 mm belonging to each material Category (1–5), expressed as a percentage of the total number of particles. If “Others” is selected in any material category (1–5), ensure that the sum of Material Percentages 1–5 equals 100%.
		Material_percentage 1	0260	
		Material category 2	0262	
		Material_percentage 2	0264	
		Material category 3	0266	
		Material_percentage 3	0268	
		Material category 4	0270	
		Material_percentage 4	0272	
		Material category 5	0274	
		Material_percentage 5	0276	
		Total	-	
	1.0 mm ≤ d < 5.0 mm	Material category 1	0318	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm belonging to each material category (1–5), expressed as a percentage of the total number of particles. If “Others” is selected in any material category, ensure that the sum of Material Percentages 1–5 equals 100%.
		Material_percentage 1	0320	
		Material category 2	0322	
		Material_percentage 2	0324	
		Material category 3	0326	
		Material_percentage 3	0328	
		Material category 4	0330	
		Material_percentage 4	0332	
		Material category 5	0334	
		Material_percentage 5	0336	
		Total	-	
	d < 1.0 mm	Material category 1	0378	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) of less than 1 mm belonging to each material category (1–5), expressed as a percentage of the total number of particles. If “Others” is selected in any material category, ensure that the sum of Material Percentages 1–5 equals 100%.
		Material_percentage 1	0380	
		Material category 2	0382	
		Material_percentage 2	0384	
		Material category 3	0386	
		Material_percentage 3	0388	
		Material category 4	0390	
		Material_percentage 4	0392	
		Material category 5	0394	
		Material_percentage 5	0396	
		Total	-	

Percentage per colour (Unit: %)	d < 5.0 mm	Colour category 1	0278	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) of less than 5 mm belonging to Colour Category 1, expressed as a percentage of the total number of particles. If “Uncategorized” is selected in any colour category (1–5), ensure that the sum of Colour Percentages 1–5 equals 100%.
		Colour_percentage 1	0280	
		Colour category 2	0282	
		Colour_percentage 2	0284	
		Colour category 3	0286	
		Colour_percentage 3	0288	
		Colour category 4	0290	
		Colour_percentage 4	0292	
		Colour category 5	0294	
		Colour_percentage 5	0296	
		Total	-	
	1.0 mm ≤ d < 5.0 mm	Colour category 1	0338	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) between 1 mm and 5 mm belonging to each colour category (1–5), expressed as a percentage of the total number of particles. If “Uncategorized” is selected in any colour category, ensure that the sum of Colour Percentages 1–5 equals 100%.
		Colour_percentage 1	0340	
		Colour category 2	0342	
		Colour_percentage 2	0344	
		Colour category 3	0346	
		Colour_percentage 3	0348	
		Colour category 4	0350	
		Colour_percentage 4	0352	
		Colour category 5	0354	
		Colour_percentage 5	0356	
		Total	-	
	d < 1.0 mm	Colour category 1	0398	Percentage of plastic particles with the longest diameter (maximum Feret's diameter) of less than 1 mm belonging to each colour category (1–5), expressed as a percentage of the total number of particles. If “Uncategorized” is selected in any colour category, ensure that the sum of Colour Percentages 1–5 equals 100%.
		Colour_percentage 1	0400	
		Colour category 2	0402	
		Colour_percentage 2	0404	
		Colour category 3	0406	
		Colour_percentage 3	0408	
		Colour category 4	0410	
		Colour_percentage 4	0412	
		Colour category 5	0414	
		Colour_percentage 5	0416	
		Total	-	