Terms used

Item		Item ID	Description of data item
Data contributor (Name)		0004	The name of the person who provided the relevant data record. If the data was registered from a published document and there is more than one author, the name of the first author is listed.
Organization	Name (Organization)	0009	The name of the institution to which the person listed in #0004 belongs.
	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/)
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 instrument used to collect the sample; name of the net, such as Newston net or Manta net; and methods other than net sampling, such as pump sampling or bulk sampling.
	Model number and manufacturer (Equipment Model)	0058	Model of instrument used to collect the sample.
	Shape of water intake	0060	Shape of sample collection port.
	Width of water intake (Unit: m)	0062	Width of the sampling port, in meters.
	Height of water intake (Unit: m)	0064	Height of sampling port (in meters). If the top of the sampling port is above the sea surface, this will be greater than the depth from the sea surface to the bottom of the sampling port. If the shape of the sampling port (#0060) is square or circular, this will be equal to the width of the sampling port (#0062).
	Area of water intake (Unit: m^2)	0066	Height of sampling port (in meters). If the shape of the sampling port (#0060) is square or rectangular, the value is obtained by multiplying the width of the sampling port (#0062) by the height of the sampling port (#0064), and if the shape of the sampling port (#0060) is circular, the value is obtained as the area of a circle whose diameter is the width (#0062) or height (#0064) of the sampling port.
	Length of net (Unit: m)	0068	Length from the opening of the net to the very end of the net. If a sample collection device such as a cod-end is attached to the end of the net, its length is not included.
	Mesh openings size (Unit: mm)	0070	Length of the open part of each stitch in the net. This does not include the length of the part closed as the mesh thread. The unit is mm. The Guidelines recommend a length of approximately 0.3 mm.
	Measurement point of 'Mesh openings size' (Mesh Side or diagonal)	0072	Whether the length of the mesh eye opening (#0070) is the length of the sides of the mesh or the length of the diagonal.
	Model number and manufacturer of mesh (Mesh Model)	0074	Net model number, standard, etc.
Sampling gear position	Sampling gear position	0094	Location of sampling device relative to the research vessel. The guideline recommends that the sampling device be installed forward of the vessel, avoiding locations where towing waves are generated.
	Distance from vessel (Unit: m)	0096	Distance of sampling device from the research vessel, in meters.
Sample name/ ID		0029	Name of sample taken for monitoring, or its ID.
Sampling time	Time difference from GMT (h)	0031	Time difference from GMT (Greenwich Mean Time) of the times entered in #0037 and #0039.
	Start date (YYYY-MM-DD)	0033	Start date of sample collection.
	End date (YYYY-MM-DD)	0035	Date of completion of sample collection.
	Start time (hh:mm:ss)	0037	Start time of sample collection.（24 hour notation）
	End time (hh:mm:ss)	0039	End time of sample collection.（24 hour notation）
	Season	0041	Season in which the sample was taken.
Sampling Location	Sampling Location Name	0043	Name of water body from which the sample was taken.
	Initial latitude (Latitude of start (decimal number))	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 number))	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 number))	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 end (decimal number))	0051	Longitude coordinates at the end of the sample collection, with positive values for east longitude and negative values for west longitude.
Sampling distance	Sweep distance (Unit: m) (Sampling_Distance (m))	0076	Distance towed (in meters). The Guidelines recommend that it be determined by means of a filtration meter as the distance of seawater passing through the sampling port.
	Measuring method of the distance (Method of #76)	0078	Method of measuring the distance towed. The Guidelines recommend calculating the distance from the value obtained with the 'Flow meter'.
	Calculation formulas	0080	Formula used in determining the distance towed.
Sampling area	Sweep area (Unit: m^2) (Sampling Area (m^2))	0082	Area of sea surface towed, in m^2. In principle, this is obtained by multiplying the width of the sampling port (#00062) by the towing distance (#0076). The Guidelines recommend a minimum of 1,000 m^2.
	Calculation formulas	0084	Formula for the area of the sea surface swept in the tow (#0082).
Filtered water volume	Filtered water volume (Unit: m^3)	0086	Volume of seawater filtered or sampled, in m^3. For sea surface sampling with a tow net, it is determined from the width of the sampling opening (#00062) × distance of the tow net (#0076) × depth at the bottom of the sampling opening (#0100). The Guidelines recommend a filtration volume of 200–500 m^3.
	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 the sample collection; time periods when the net was replaced because of clogging, etc., are excluded from the time taken to obtain the sample.
Vessel speed	(Unit: knot)	0092	Velocity with respect to the water at the time of sampling (measured in knots). The Guidelines recommend 1 to 3 knots, and 1–2 knots for small vessels.
Depth of the water intake	Depth (Unit: m) (Lower end depth (m))	0098	Average water depth at the bottom of the net mouth for net sampling, bottom of the sampling mouth for pump sampling, and depth at which the bucket is submerged for bulk sampling. The unit is m. If the sea surface layer was sampled, it means that the seawater was sampled from the sea surface to this water depth, and the value is equal to or less than the height of the sampling port (#0064). If the surface layer was excluded, it means that the seawater was sampled from the water depth obtained by subtracting the height of the sampling port (#0064) from this value to the water depth of this value.
	Did depth change during sampling? (Lower end depth Change or not)	0102	Whether there was a change in the water depth (#0098) at the lower end of the sampling port when the sample was taken.
Tow direction	Tow direction	0104	Sailing direction of the research vessel during sample collection.
Blank tests	Whether or not were conducted (Blank test: conducted or not)	0106	Whether or not a blank test was performed at the time of sample collection.
	Results of the blank test (Unit: particles/ sample)	0108	Results of blank test at time of sample collection. Values are the number of particles obtained in the blank test.

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). Significant wave height is calculated by selecting 1/3 of the total number of waves observed, starting from the highest wave height and averaging these wave heights. The guidelines recommend that samples be taken with a significant wave height of 0.5 m or less.
	Beaufort scale	0116	An integer from 0 to 12 that indicates the wind strength at the time of sampling, with smaller numbers indicating calmer conditions. The Guidelines recommend that samples be taken with a Beaufort scale of 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	Other water quality information observed at the time of sample collection.
	Quality 2	0130	Other water quality information observed at the time of sample collection.
	Quality 3	0132	Other water quality information observed at the time of sample collection.
	Quality 4	0134	Other water quality information observed at the time of sample collection.
State of floating debris on the sea surface. (possible obstruction)		0136	Information on suspended solids visually observed during sample collection.
Sample name/ ID		0029	Name of sample taken for monitoring, or its ID.
Sample splitting	Whether or not sample splitting was conducted	0154	Whether or not sample division was performed.
	Method or equipment of splitting	0156	Sample division method.
	Estimated relative error range caused by splitting process	0158	Error resulting from sample division.
Biological digestion and chemical treatment	Whether or not was conducted (Biological digestion and chemical treat)	0146	Whether biochemical or chemical treatment was used to break down natural organic matter.
	Methods used for digesting organic matter	0148	Biochemical or chemical treatment.
	Temperature during processing (Unit: ℃)	0150	Temperature at time of biochemical or chemical treatment (in %).
	Reaction time (Unit: min.)	0152	Reaction time for biochemical or chemical treatment, in minutes.
Density separation	Whether or not was conducted (Density separation conducted or not)	0138	Whether the analysis separated plastic from oher materials by differences in density.
	Type of solution used (Solution type for density separation)	0140	Type of solute used in the density separation.
	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	Whether or not pretreatment before particle isolation was conducted	0160	Whether or not pretreatment was performed to separate microplastics.
	Type of pretreatment	0162	Type of pretreatment.
	Whether or not picking was conducted under stereomicroscope (Under stereomicroscope or not)	0164	Whether or not a stereomicroscope was used.
Counting and measuring sizes of particles	Method of size fractionation	0166	Method of fractionating the particle size to count the number and weight of particles by particle size. The Guidelines recommend measuring the major axis of each particle. In addition, there is also a method of using multiple stages of sieves to carry out particle size fractionation.
Identification of microplastics	Whether or not composition analysis was conducted	0168	Whether the materials were analyzed or not.
	Method of composition analysis	0170	Methods by which the materials were analyzed
	Percentage of the particles subjected to composition analysis (Unit: %)	0172	Percentage of number of particles analyzed for material quality (in %).
Weight measurement	Temperature of sample drying (Unit: ℃)	0174	Temperature of drying process conducted prior to particle weight measurement (in ℃).
	Humidity of sample drying (Unit: %)	0176	Humidity (in %) of the drying process conducted prior to particle weight measurement.
	Processing time of sample drying (Unit: min.)	0178	Time, in minutes, of the drying process performed prior to particle weight measurement.
	Methods of weight measurements	0180	Methods used to measure the weight of particles.
Blank tests	Whether or not blank tests were conducted	0182	Whether or not a blank test was performed at the time of analysis.
	Blank test results (Unit: particles/ sample)	0184	Results of blank test at time of analysis, values are the number of particles obtained in the blank test.
Spiked recovery tests	Whether or not spiked recovery tests were conducted	0186	The presence or absence of additive recovery testing.
	Spiked recovery test results (Unit: %)	0188	Results of additive recovery test (number of particles recovered/number of particles added), measured in %.
Sample name/ ID		0029	The name of the sample taken for monitoring, or its ID.
Number of plastic particles	d<5.0mm	0190	Number of particles with a particle size of less than 5 mm.
(Unit: particles/sample)	1.0mm≤d<5.0mm	0202	Volume density of the number of particles with a particle size of less than 5 mm, calculated in principle as the number of particles (#0190)/volume of filtered water (#0086), in particles/m^3.
(Total Number of Particles)	d<1.0mm	0214	Area density of the number of particles with a particle diameter of less than 5 mm, calculated in principle as the number of particles (#0190)/sampled area (#0082)/1,000,0000m^2/km^2, in particles/km^2.
	5.0mm≤d	0226	Particle weight of particles with a diameter of less than 5 mm.
Particle number density per filtered water volume	d<5.0mm	0192	Particle weight volume density of particles with a particle size of less than 5 mm, calculated in principle as particle weight (#0196)/filtrate volume (#0086), in particles/m^3.
(Unit: particles/m^3)	1.0mm≤d<5.0mm	0204	Particle weight area density of particles with a particle diameter of less than 5 mm, calculated in principle as particle weight (#0190)/sampled area (#0082)/1,000,0000m^2/km^2, with the unit being particles/km^2.
(Particle density_m^3)	d<1.0mm	0216	Number of particles with diameters between 1 mm and 5 mm.
	5.0mm≤d	0228	Volume density of the number of particles with a particle diameter between 1 mm and 5 mm, calculated in principle as the number of particles (#0202)/volume of filtered water (#0086), in particles/m^3.
Particle number density per trawl swept area	d<5.0mm	0194	Area density of the number of particles with a particle diameter between 1 mm and 5 mm. In principle, it is calculated as the number of particles (#0202)/sampled area (#0082)/1,000,0000m^2/km^2, with the unit being particles/km^2.
(Unit: particles/km^2)	1.0mm≤d<5.0mm	0206	Particle weight of particles with a diameter between 1 mm and 5 mm.
(Particle density_km^2)	d<1.0mm	0218	Particle weight volume density of particles with a particle size between 1 mm and 5 mm, calculated in principle as particle weight (#0208)/filtrate volume (#0086), in particles/m^3.
	5.0mm≤d	0230	Particle weight area density of particles with a particle diameter between 1 mm and 5 mm, calculated in principle by particle weight (#0208)/sampled area (#0082)/1,000,0000m^2/km^2, with units of particles/km^2.
Weight of plastic particles	d<5.0mm	0196	Number of particles with a particle size of less than 1 mm.
(Unit: g/sample)	1.0mm≤d<5.0mm	0208	Volume density of the number of particles with a particle size of less than 1 mm, calculated in principle as the number of particles (#0214)/volume of filtered water (#0086), in particles/m^3.
(Total weight_g)	d<1.0mm	0220	Area density of the number of particles with a particle diameter of less than 1 mm, and is calculated in principle as the number of particles (#0214)/sampled area (#0082)/1,000,0000m^2/km^2, with the unit being particles/km^2.

	5.0mm≤d		0232	Particle weight of particles less than 1 mm in diameter.
Particle weight density per filtered water volume (Unit: g/m^3) (Weight density_g/m^3)	d<5.0mm		0198	Particle weight volume density of particles less than 1 mm in diameter, calculated in principle by particle weight (#0220)/filtrate volume (#0086), in particles/m^3.
	1.0mm≤d<5.0mm		0210	Particle weight area density of particles with a particle diameter of less than 1 mm, calculated in principle as particle weight (#0220)/sampled area (#0082)/1,000,0000m2/km2, with units of particles/km2.
	d<1.0mm		0222	Number of particles with a particle size of 5 mm or larger.
	5.0mm≤d		0234	Volume density of the number of particles with a particle size of 5 mm or larger, calculated in principle as the number of particles (#0226) / volume of filtered water (#0086), in particles/m^3.
Particle weight density per trawl swept area (Unit: g/km^2) (Weight density_g/km^2)	d<5.0mm		0200	Area density of the number of particles with a particle diameter of 5 mm or larger, calculated in principle as the number of particles (#0226)/sampled area (#0082)/1,000,0000m2/km2, in particles/km2.
	1.0mm≤d<5.0mm		0212	Particle weight of particles with a particle size of 5 mm or larger.
	d<1.0mm		0224	Particle weight volume density of particles with a particle size of 5 mm or larger, calculated in principle as particle weight (#0232)/filtrate volume (#0086), in particles/m^3.
	5.0mm≤d		0236	Particle weight area density of particles with a particle diameter of 5 mm or larger, calculated in principle as particle weight (#0232)/sampled area (#0082)/1,000,0000m^2/km^2, with the unit being particles/km^2.
Percentage per shape (Unit: %)	d<5.0mm	Shape category 1		Percentage of plastic particles with a diameter of less than 5 mm, by shape. in units of %. If 'Others' is selected for any of "Shape category 1" to "Shape category 5," please enter values that sum up from "Shape percentage 1" to "Shape percentage 5" to 100%.
		Shape_percentage 1		
		Shape category 2		
		Shape_percentage 2		
		Shape category 3		
		Shape_percentage 3		
		Shape category 4		
		Shape_percentage 4		
		Shape category 5		
		Shape_percentage 5		
		Total		
	1.0mm≤d<5.0mm	Shape category 1	0298	Percentage of plastic particles with a diameter of less than 5 mm but greater than 1 mm, by shape, in units of %. If 'Others' is selected for any of "Shape category 1" to "Shape category 5," please enter values that sum up from "Shape percentage 1" to "Shape percentage 5" to 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<1.0mm	Shape category 1	0358	Percentage of plastic particles with a diameter of less than 1 mm, by shape, in units of %. If 'Others' is selected for any of "Shape category 1" to "Shape category 5," please enter values that sum up from "Shape percentage 1" to "Shape percentage 5" to 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<5.0mm	Material category 1	0258	Percentage of plastic particles with a diameter of less than 5 mm, by material, in units of %. If 'Others' is selected for any of "Material category 1" to "Material category 5," please enter values that sum up from "Material percentage 1" to "Material percentage 5" to 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	-	

	1.0mm≤d<5.0mm	Material category 1	0318	Percentage of plastic particles with a diameter of 1 mm or more and less than 5 mm, by material, in units of %. If 'Others' is selected for any of "Material category 1" to "Material category 5," please enter values that sum up from "Material percentage 1" to "Material percentage 5" to 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<1.0mm	Material category 1	0378	Percentage of plastic particles with a diameter of less than 1 mm, by material, in units of %. If 'Others' is selected for any of "Material category 1" to "Material category 5," please enter values that sum up from "Material percentage 1" to "Material percentage 5" to 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<5.0mm	Colour category 1	0278	Percentage of plastic particles with a diameter of less than 5 mm, by shape, in units of %. If 'Uncategorized' is selected for any of "Colour category 1" to "Colour category 5," please enter values that sum up from "Colour percentage 1" to "Colour percentage 5" to 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	-	
	1.0mm≤d<5.0mm	Colour category 1	0338	Percentage of plastic particles with a diameter of 1 mm or more and less than 5 mm, by shape, in units of %. If 'Uncategorized' is selected for any of "Colour category 1" to "Colour category 5," please enter values that sum up from "Colour percentage 1" to "Colour percentage 5" to 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<1.0mm	Colour category 1	0398	Percentage of plastic particles with a diameter of less than 1 mm, by shape, in units of %. If 'Uncategorized' is selected for any of "Colour category 1" to "Colour category 5," please enter values that sum up from "Colour percentage 1" to "Colour percentage 5" to 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	-	