*Instructions:* Please try not to change the order of Rows No the additional variable sections, then the non-measured variare more than 3 platforms). Please do not use special characteristics.

No	Metadata element name
1	Submission Date
2	Accession no. of related data sets
3	Investigator-1 name
4	Investigator-1 institution
5	Investigator-1 address
6	Investigator-1 phone
7	Investigator-1 email
8	Investigator-1 researcher ID
9	Investigator-1 ID type (ORCID, Researcher ID, etc.)
10	Investigator-2 name
11	Investigator-2 institution
12	Investigator-2 address
13	Investigator-2 phone
14	Investigator-2 email
15	Investigator-2 researcher ID
16	Investigator-2 ID type (ORCID, Researcher ID, etc.)
17	Investigator-3 name
18	Investigator-3 institution
19	Investigator-3 address
20	Investigator-3 phone
21	Investigator-3 email
22	Investigator-3 researcher ID
23	Investigator-3 ID type (ORCID, Researcher ID, etc.)
24	Data submitter name
25	Data submitter institution
26	Data submitter address
27	Data submitter phone
28	Data submitter email
29	Data submitter researcher ID
30	Data submitter ID type (ORCID, Researcher ID, etc.)
31	Title

33	Purpose
34	Start date
35	End date
36	Westbd longitude
37	Eastbd longitude
38	Northbd latitude
39	Southbd latitude
40	Spatial reference system
41	Geographic names
42	Location of organism collection
43	Funding agency name
44	Funding project title
45	Funding project ID (Grant no.)
46	Research projects
47	Platform-1 name
48	Platform-1 ID
49	Platform-1 type
50	Platform-1 owner
51	Platform-1 country
52	Platform-2 name
53	Platform-2 ID
54	Platform-2 type
55	Platform-2 owner
56	Platform-2 country
57	Platform-3 name
58	Platform-3 ID
59	Platform-3 type
60	Platform-3 owner
61	Platform-3 country
62	EXPOCODE
63	Cruise ID
64	Section
65	Author list for citation
66	References
67	Supplemental information
68	DIC: Variable abbreviation in data files

69 **DIC: Observation type** DIC: In-situ observation / manipulation condition / 70 response variable 71 **DIC: Manipulation method** 72 DIC: Variable unit 73 **DIC: Measured or calculated** 74 DIC: Calculation method and parameters 75 **DIC: Sampling instrument** 76 **DIC: Analyzing instrument** 77 DIC: Detailed sampling and analyzing information 78 **DIC: Field replicate information** 79 **DIC: Standardization technique description** 80 **DIC: Frequency of standardization** 81 **DIC: CRM manufacturer** 82 **DIC: Batch number** 83 DIC: Poison used to kill the sample 84 DIC: Poison volume **DIC Poisoning correction description** 86 **DIC: Uncertainty** 87 DIC: Data quality flag description 88 **DIC: Method reference (citation)** 89 **DIC: Researcher Name** 90 **DIC: Researcher Institution** 91 TA: Variable abbreviation in data files 92 TA: Observation type TA: In-situ observation / manipulation condition / response 93 variable TA: Manipulation method 94 TA: Variable unit TA: Measured or calculated TA: Calculation method and parameters 97 98 TA: Sampling instrument TA: Analyzing instrument 100 **TA: Type of titration** 101 TA: Cell type (open or closed) 102 TA: Curve fitting method 103 TA: Detailed sampling and analyzing information 104 TA: Field replicate information 105 TA: Standardization technique description 106 TA: Frequency of standardization 107 TA: CRM manufacturer 108 TA: Batch Number 109 TA: Poison used to kill the sample 110 TA: Poison volume 111 TA: Poisoning correction description 112 TA: Magnitude of blank correction 113 TA: Uncertainty

114 TA: Data quality flag description 115 **TA: Method reference (citation)** 116 TA: Researcher Name 117 **TA: Researcher Institution** 118 pH: Variable abbreviation in data files 119 pH: Observation type pH: In-situ observation / manipulation condition / response variable 121 pH: Manipulation method 122 pH: Measured or calculated 123 pH: Calculation method and parameters 124 pH: Sampling instrument 125 pH: Analyzing instrument 126 pH: pH scale 127 pH: Temperature of measurement 128 pH: Detailed sampling and analyzing information 129 pH: Field replicate information 130 pH: Standardization technique description 131 pH: Frequency of standardization 132 pH: pH values of the standards 133 pH: Temperature of standardization 134 pH: Temperature correction method 135 pH: at what temperature was pH reported 136 pH: Uncertainty 137 pH: Data quality flag description 138 pH: Method reference (citation) 139 pH: Researcher Name 140 pH: Researcher Institution 141 pCO2A: Variable abbreviation in data files 142 pCO2A: Observation type pCO2A: In-situ observation / manipulation condition / response variable 144 pCO2A: Manipulation method 145 pCO2A: Variable unit 146 pCO2A: Measured or calculated 147 pCO2A: Calculation method and parameters 148 pCO2A: Sampling instrument 149 pCO2A: Location of seawater intake 150 pCO2A: Depth of seawater intake 151 pCO2A: Analyzing instrument 152 pCO2A: Detailed sampling and analyzing information 153 pCO2A: Equilbrator type 154 pCO2A: Equilibrator volume (L) 155 pCO2A: Vented or not 156 pCO2A: Water flow rate (L/min) 157 pCO2A: Headspace gas flow rate (L/min) pCO2A: How was temperature inside the equilibrator measured. pCO2A: How was pressure inside the equilibrator measured. 160 pCO2A: Drying method for CO2 gas

161 pCO2A: Manufacturer of the gas detector

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162 pCO2A: Model of the gas detector
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- 163 pCO2A: Resolution of the gas detector
- 164 pCO2A: Uncertainty of the gas detector
- 165 pCO2A: Standardization technique description
- 166 pCO2A: Frequency of standardization
- 167 pCO2A: Manufacturer of standard gas
- 168 pCO2A: Concentrations of standard gas
- 169 pCO2A: Uncertainties of standard gas
- 170 pCO2A: Water vapor correction method
- 171 pCO2A: Temperature correction method
- 172 pCO2A: at what temperature was pCO2 reported
- 173 pCO2A: Uncertainty
- 174 pCO2A: Data quality flag description
- 175 pCO2A: Method reference (citation)
- 176 pCO2A: Researcher Name
- 177 pCO2A: Researcher Institution
- 178 pCO2D: Variable abbreviation in data files
- 179 pCO2D: Observation type
- pCO2D: In-situ observation / manipulation condition /
- response variable
- 181 pCO2D: Manipulation method
- 182 pCO2D: Variable unit
- 183 pCO2D: Measured or calculated
- 184 pCO2D: Calculation method and parameters
- 185 pCO2D: Sampling instrument
- 186 pCO2D: Analyzing instrument
- 187 pCO2D: Storage method
- 188 pCO2D: Seawater volume (mL)
- 189 pCO2D: Headspace volume (mL)
- 190 pCO2D: Temperature of measurement
- 191 pCO2D: Detailed sampling and analyzing information
- 192 pCO2D: Field replicate information
- 193 pCO2D: Manufacturer of the gas detector
- 194 pCO2D: Model of the gas detector
- 195 pCO2D: Resolution of the gas detector
- 196 pCO2D: Uncertainty of the gas detector
- 197 pCO2D: Standardization technique description
- 198 pCO2D: Frequency of standardization
- 199 pCO2D: Temperature of standardization
- 200 pCO2D: Manufacturer of standard gas
- 201 pCO2D: Concentrations of standard gas
- 202 pCO2D: Uncertainties of standard gas
- 203 pCO2D: Water vapor correction method
- 204 pCO2D: Temperature correction method
- 205 pCO2D: at what temperature was pCO2 reported
- 206 pCO2D: Uncertainty
- 207 pCO2D: Data quality flag description
- 208 pCO2D: Method reference (citation)
- 209 pCO2D: Researcher Name
- 210 pCO2D: Researcher Institution
- 211 Var1: Variable abbreviation in data files
- 212 Var1: Full variable name

213 Var1: Observation type Var1: In-situ observation / manipulation condition / 214 response variable 215 Var1: Variable unit 216 Var1: Measured or calculated 217 Var1: Calculation method and parameters 218 Var1: Sampling instrument 219 Var1: Analyzing instrument 220 Var1: Duration (for settlement/colonization methods) 221 Var1: Detailed sampling and analyzing information 222 Var1: Field replicate information 223 Var1: Uncertainty 224 Var1: Data quality flag description 225 Var1: Method reference (citation) 226 Var1: Biological subject 227 Var1: Species Identification code 228 Var1: Life stage of the biological subject 229 Var1: Researcher Name 230 Var1: Researcher Institution 231 Var2: Variable abbreviation in data files 232 Var2: Full variable name 233 Var2: Observation type Var2: In-situ observation / manipulation condition / 234 response variable 235 Var2: Variable unit 236 Var2: Measured or calculated 237 Var2: Calculation method and parameters 238 Var2: Sampling instrument 239 Var2: Analyzing instrument 240 Var2: Duration (for settlement/colonization methods) 241 Var2: Detailed sampling and analyzing information 242 Var2: Field replicate information 243 Var2: Uncertainty 244 Var2: Data quality flag description 245 Var2: Method reference (citation) 246 Var2: Biological subject 247 Var2: Species Identification code 248 Var2: Life stage of the biological subject 249 Var2: Researcher Name 250 Var2: Researcher Institution 251 Var3: Variable abbreviation in data files 252 Var3: Full variable name 253 Var3: Observation type Var3: In-situ observation / manipulation condition / response variable 255 Var3: Variable unit 256 Var3: Measured or calculated 257 Var3: Calculation method and parameters 258 Var3: Sampling instrument 259 Var3: Analyzing instrument 260 Var3: Duration (for settlement/colonization methods) 261 Var3: Detailed sampling and analyzing information

262 Var3: Field replicate information 263 Var3: Uncertainty 264 Var3: Data quality flag description 265 Var3: Method reference (citation) 266 Var3: Biological subject 267 Var3: Species Identification code 268 Var3: Life stage of the biological subject 269 Var3: Researcher Name 270 Var3: Researcher Institution 271 Var4: Variable abbreviation in data files 272 Var4: Full variable name 273 Var4: Observation type Var4: In-situ observation / manipulation condition / response variable 275 Var4: Variable unit 276 Var4: Measured or calculated 277 Var4: Calculation method and parameters 278 Var4: Sampling instrument 279 Var4: Analyzing instrument 280 Var4: Duration (for settlement/colonization methods) 281 Var4: Detailed sampling and analyzing information 282 Var4: Field replicate information 283 Var4: Uncertainty 284 Var4: Data quality flag description 285 Var4: Method reference (citation) 286 Var4: Biological subject 287 Var4: Species Identification code 288 Var4: Life stage of the biological subject 289 Var4: Researcher Name 290 Var4: Researcher Institution 291 Var5: Variable abbreviation in data files 292 Var5: Full variable name 293 Var5: Observation type Var5: In-situ observation / manipulation condition / response variable 295 Var5: Variable unit 296 Var5: Measured or calculated 297 Var5: Calculation method and parameters 298 Var5: Sampling instrument 299 Var5: Analyzing instrument 300 Var5: Duration (for settlement/colonization methods) 301 Var5: Detailed sampling and analyzing information 302 Var5: Field replicate information 303 Var5: Uncertainty 304 Var5: Data quality flag description 305 Var5: Method reference (citation) 306 Var5: Biological subject 307 Var5: Species Identification code 308 Var5: Life stage of the biological subject 309 Var5: Researcher Name 310 Var5: Researcher Institution 311 Var6: Variable abbreviation in data files

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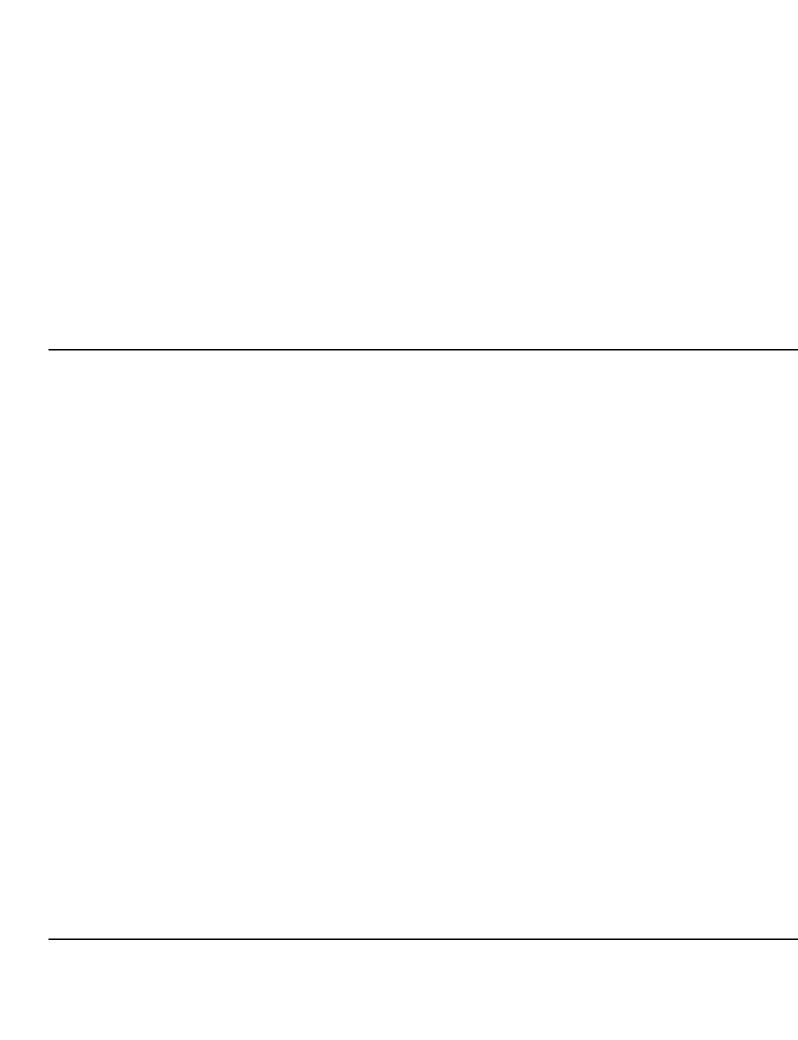
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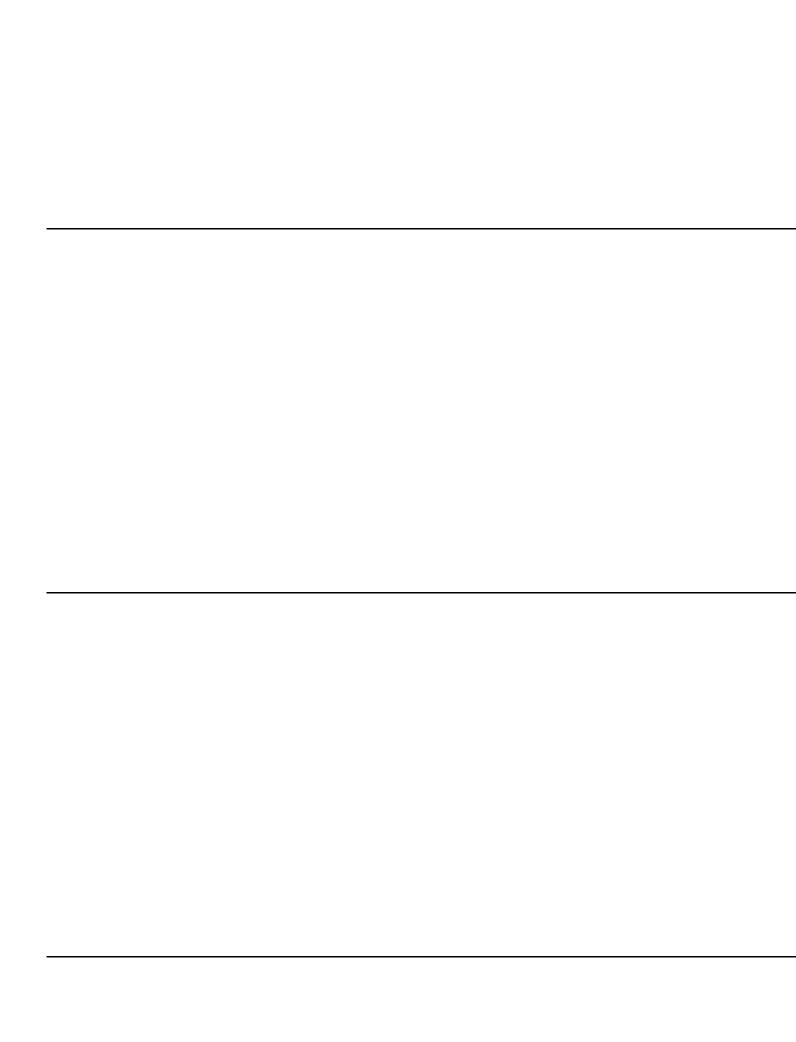
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