



*Supplement of*

**A synthesis of ocean total alkalinity and dissolved inorganic carbon measurements from 1993 to 2022: the SNAPO-CO2-v1 dataset**

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This document includes Figures S1-S7 and Table S1-S4 providing the supplementary information that supports description of data presented in the main article.

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Figure S7:  $A_T$ /SSS relationships observed in the Tropical Atlantic near the Congo and Amazon Rivers regions based on different cruises.

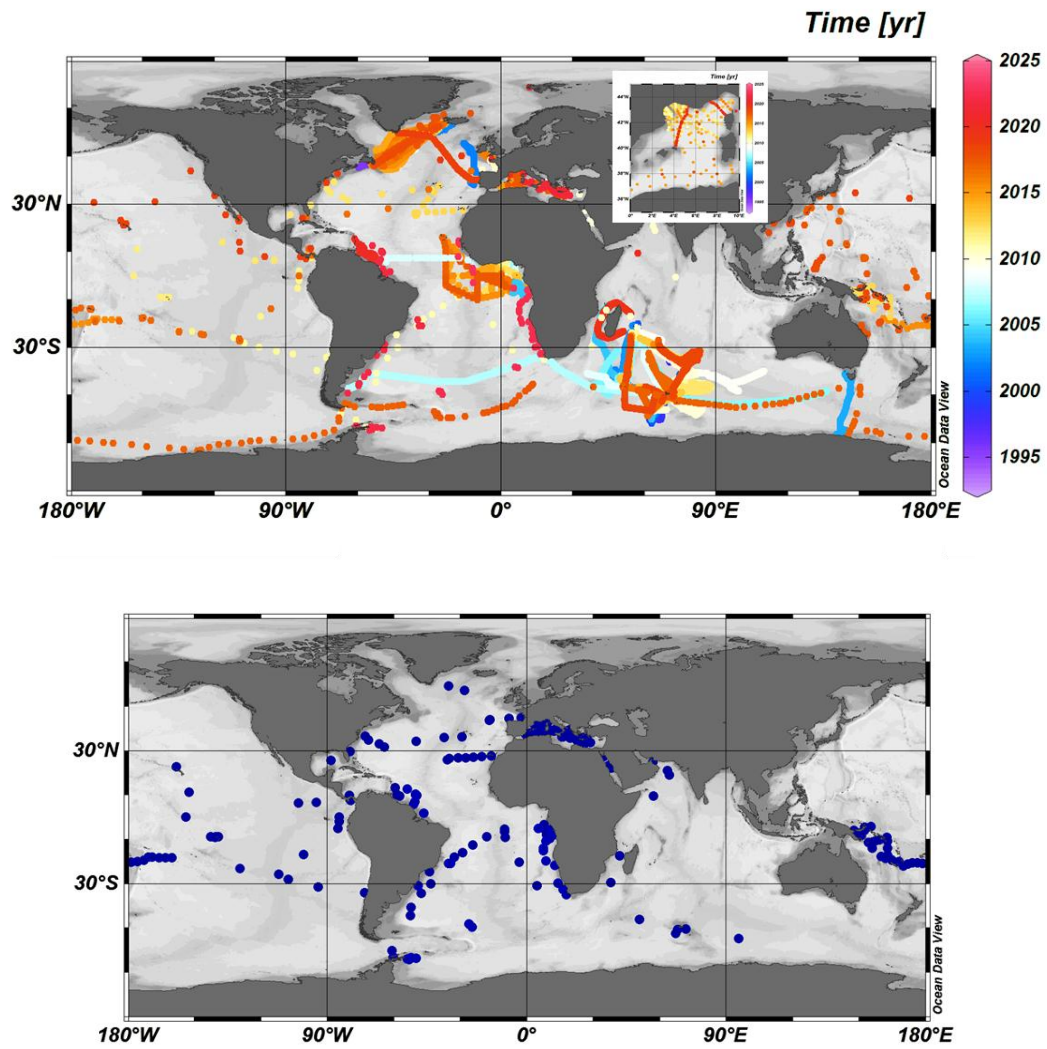
Table S1: List of cruises in the SNAPO-CO2-V1 dataset

Table S2: List of cruises with CRM Batch numbers

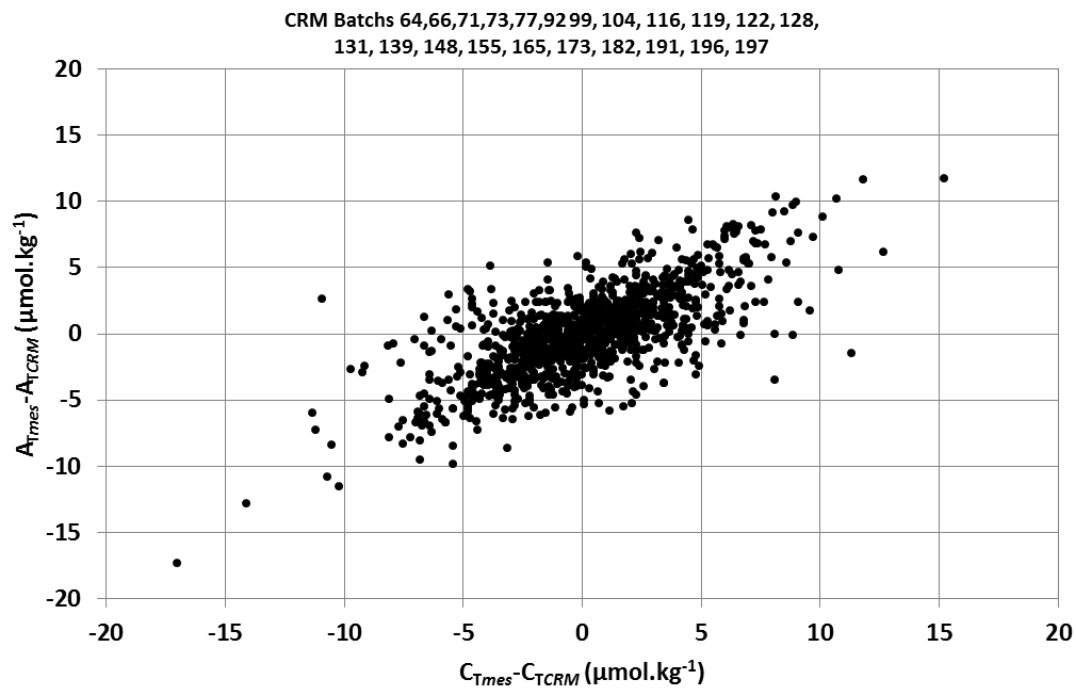
Table S3: List of cruises with references

Table S4: List of cruises with DOI

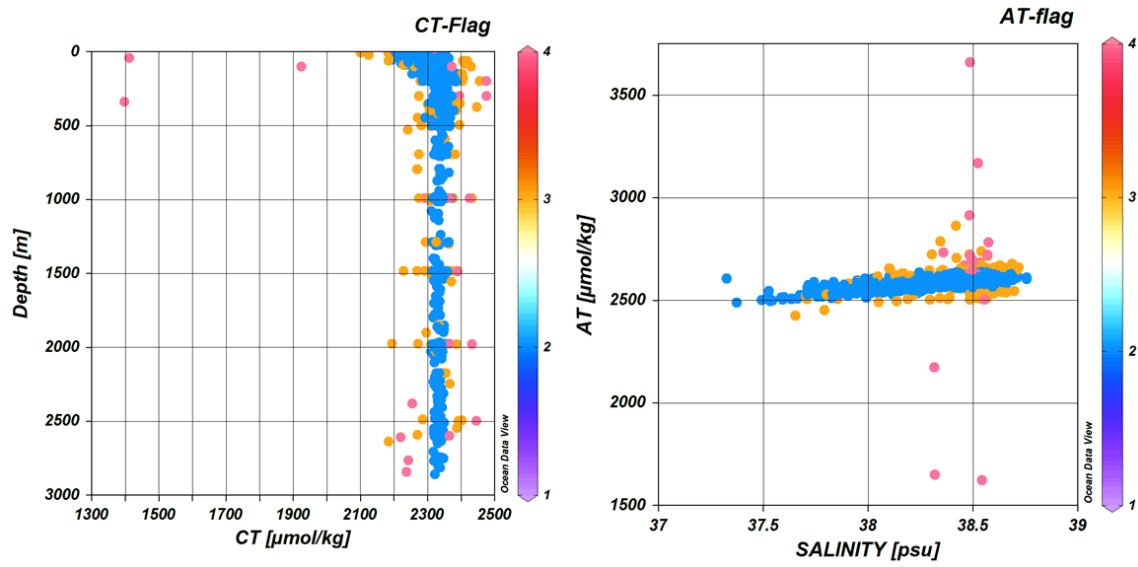
**Figure S1:** Top: Same as Figure 1 with Color code for Year. Locations of  $A_T-C_T$  data (1993-2022) in the Global Ocean and the Western Mediterranean Sea (insert). Color code is for Year. Bottom: Locations of data with water column samples. Figures produced with ODV (Schlitzer, 2018).



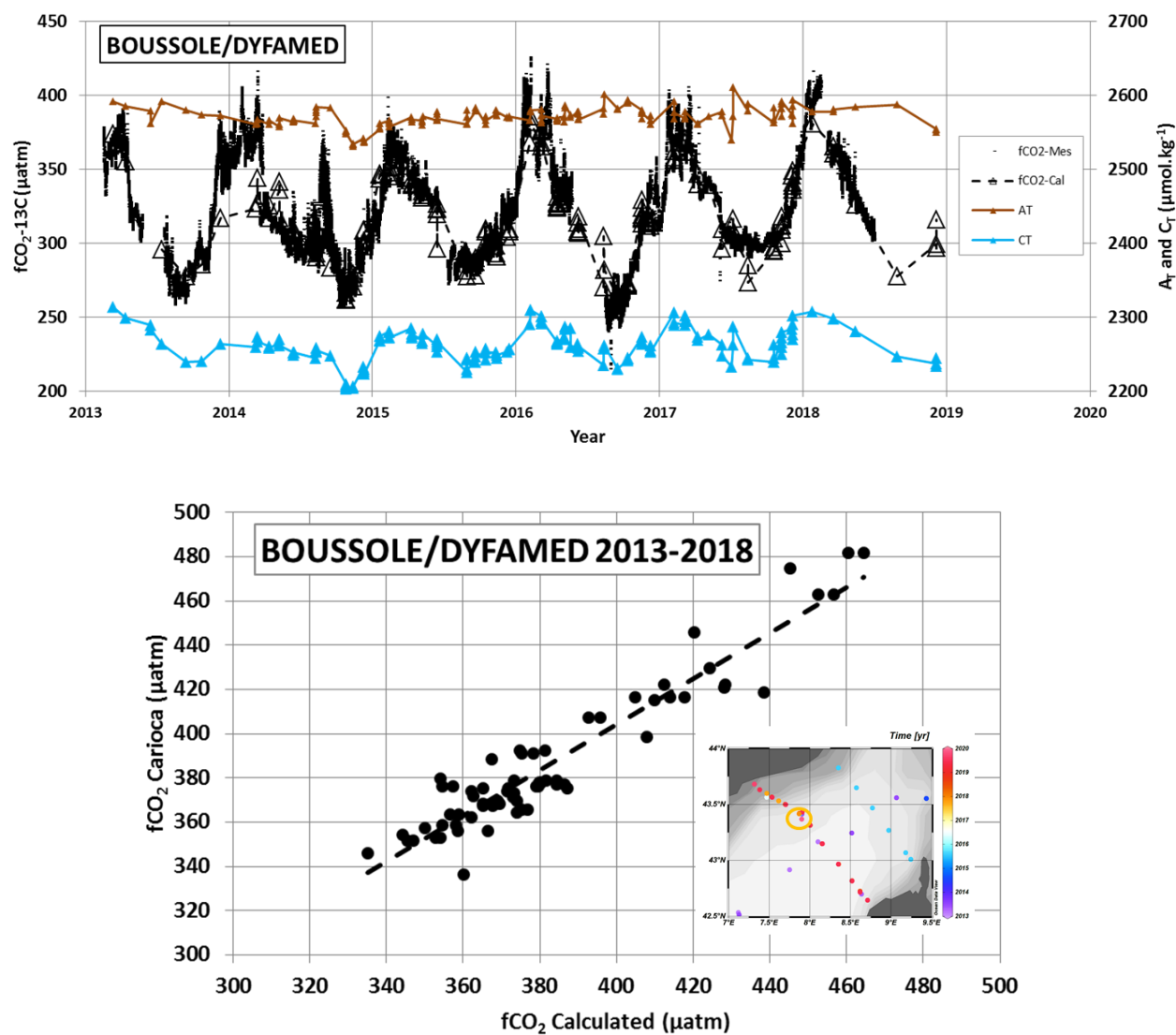
**Figure S2:** Results of CRM measurements in 2005-2023. The plot shows the differences of  $A_T$  versus  $C_T$  (Measured minus CRM reference) for 1156 CRM bottles and different CRM Batches analyzed in 2005-2023. For all 1156 analysis standard-deviations of the differences were  $\pm 3.21 \mu\text{mol.kg}^{-1}$  for  $A_T$  and  $\pm 3.48 \mu\text{mol.kg}^{-1}$  for  $C_T$  (or  $\pm 2.71 \mu\text{mol.kg}^{-1}$  and  $\pm 2.86 \mu\text{mol.kg}^{-1}$  for 1090 analysis when excluding few outliers). Differences higher than  $\pm 5 \mu\text{mol.kg}^{-1}$  were excluded for processing sample analyses but kept in this plot.



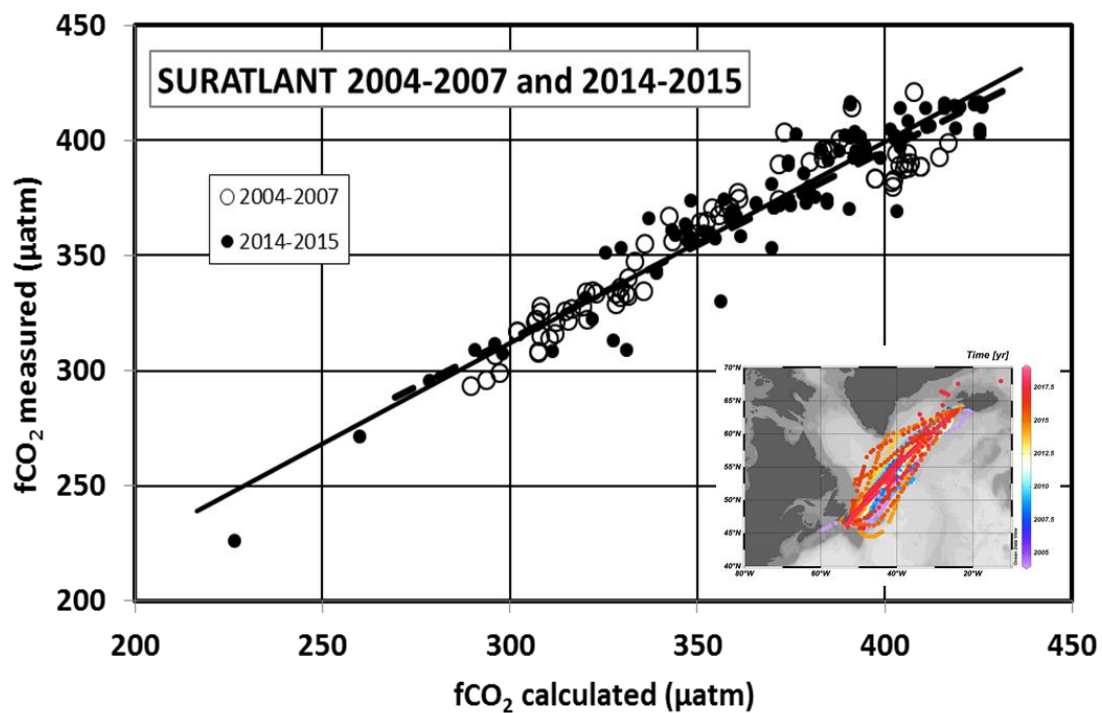
**Figure S3:** Example of Quality control (to assign secondary flags). Left: Depth profiles of  $C_T$ . Right:  $A_T$  versus salinity from the MOOSE-GE cruises in the Mediterranean Sea (2010-2019). All data are shown including Flag 2 (Good, blue), Flag 3 (Questionable, orange) and Flag 4 (Bad, red). Figures produced with ODV (Schlitzer, 2018).



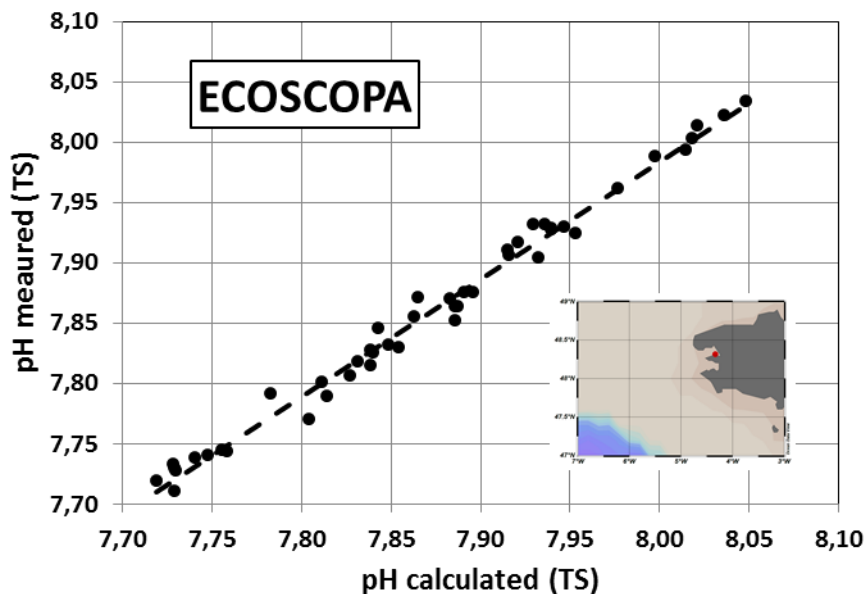
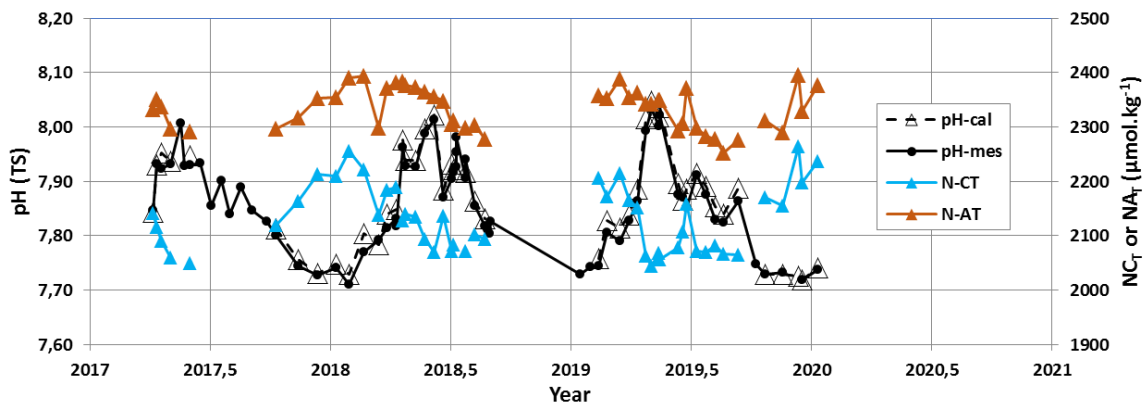
**Figure S4:** Top: Time-series for the period 2013-2018 of  $A_T$  (brown triangles, right Y-axis),  $C_T$  (blue triangles, right Y-axis),  $f\text{CO}_2$  calculated (open triangles, left Y-axis) and high-frequency  $f\text{CO}_2$  measured from CARIOCA (back dotted at 3 and 10m) at the station BOUSSOLE near DYFAMED in the Ligurian Sea (Merlivat et al, 2018; Golbol et al, 2020). For  $A_T$  and  $C_T$  data are selected in the top layer (0-20m) from BOUSSOLE, DYFAMED and MOOSE-GE samples at the same location. Here  $f\text{CO}_2$  is normalized at a temperature 13°C for which the seasonality is mainly driven by  $C_T$  (Merlivat et al., 2018; Coppola et al., 2020). Bottom: Measured  $f\text{CO}_2$  versus calculated  $f\text{CO}_2$  for co-located samples (Dashed line:  $f\text{CO}_2\text{-Carioca} = 1.0341 * f\text{CO}_2\text{-Cal} - 9.321$ ,  $R^2 = 0.8976$ ). The mean difference ( $f\text{CO}_{2\text{cal}} - f\text{CO}_{2\text{mes}}$ ) for 67 co-located samples is  $-3.7 \mu\text{atm} (\pm 10.8) \mu\text{atm}$ . Localization of the samples is shown in the inserted map (orange circle).



**Figure S5:** Measured  $f\text{CO}_2$  versus calculated  $f\text{CO}_2$  for co-located samples on several SURATLANT transects in the North Atlantic (map inserted). The mean difference ( $f\text{CO}_{2\text{cal}} - f\text{CO}_{2\text{mes}}$ ) for 74 samples in 2004-2007 is  $-4.3 \mu\text{atm} (\pm 12.9) \mu\text{atm}$  (open circles) and for 98 samples in 2014-2015 is  $-3.0 (\pm 12.1) \mu\text{atm}$  (filled circles). Data from Reverdin et al., (2018).



**Figure S6:** Top: Time-series of salinity normalized  $A_T$ ,  $N-A_T$  (brown triangles, right Y-axis), salinity normalized  $C_T$ ,  $N-C_T$  (blue triangles, right Y-axis), pH calculated (open triangles, left Y-axis) and pH measured (filled circles) in the Bay of Brest (Rade de Brest, Brittany) in 2017-2019 (project ECOSCOPIA, Petton et al., 2023). pH is here at 25°C (TS Total Scale).  $A_T$  and  $C_T$  are normalized at salinity 35. Bottom: Measured pH versus calculated pH for the same samples. The mean difference ( $pH_{cal}-pH_{mes}$ ) for 46 samples is  $0.013 (\pm 0.010)$ . Localization of the station is shown in the inserted map (red dot).





**Figure S7:**  $A_T$ /salinity relationships observed in the western and eastern tropical Atlantic near the Amazon and Congo Rivers regions. Data are from different cruises, season and years. In the Amazon sector data are from PLUMAND, EUREC4-OA and TARA-MICROBIOME cruises (triangles); in the Congo sector data are from EGEE, PIRATA-FR and TARA-MICROBIOME cruises (circles). For the Amazon sector (grey dashed line) the relationship is  $A_T = 60.016 \text{ SSS} + 197.83$  ( $R^2 = 0.9805$ ); for the Congo sector (black dashed line),  $A_T = 65.21 \text{ SSS} + 15.509$  ( $R^2 = 0.9731$ ) very coherent with previous estimates (Koffi et al., 2010; Lefèvre et al., 2010; Lefèvre et al., 2021). Left: all data in both regions. Right: detail for data with Salinity higher than 32. Bottom: map identifying the data selected in the Amazon (triangle) and Congo (circle) regions.

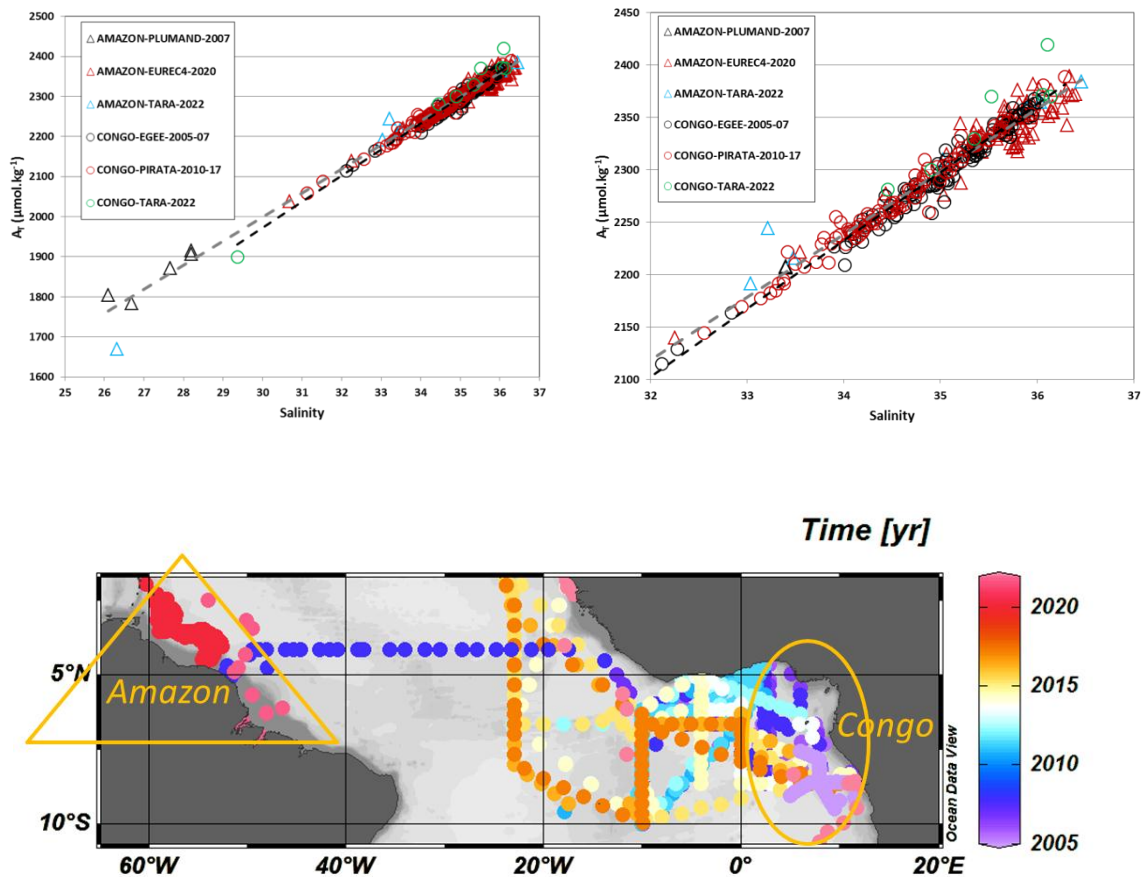


Table S1: List of cruises in the SNAPO-CO2-V1 dataset

Cruise/Project	Year Start	Year End	Region	Sampling	Nb data	PI (A <sub>T</sub> -C <sub>T</sub> )	Laboratory
AWIPEV-CO2	2015	2021	Arctic	Surface and sub-surface	195	Gattuso Jean-Pierre	LOV , Villefranche/Mer
SURATLANT+RREX	1993	2017	North Atlantic	Surface	2832	Reverdin Gilles	LOCEAN, Paris
OVIDE	2006	2018	North Atlantic	Surface, Water Column	397	Metzl Nicolas	LOCEAN, Paris
STRASSE	2012	2012	North Atlantic	Water Column	205	Reverdin Gilles	LOCEAN, Paris
EUREC4A-OA	2020	2020	North Atlantic	Surface, Water Column	135	Reverdin Gilles	LOCEAN, Paris
PROTEUS	2010	2010	North Atlantic coastal	Water Column	27	Le Menn Marc	SHOM, Brest
CHANNEL	2012	2015	English Channel	Surface	696	Bozec Yann	SBR, Roscoff
SOMLIT-Brest	2008	2019	Coastal North Atlantic	Surface	1174	Bozec Yann	SBR, Roscoff
SOMLIT-Roscoff	2009	2019	Coastal North Atlantic	Surface and 60m	801	Bozec Yann	SBR, Roscoff
ECOSCOPA	2017	2019	Coastal North Atlantic	Surface	67	Petton Sebastien	IFREMER, Brest
PENZE	2011	2020	River Brittany	Surface and sub-surface	148	Bozec Yann	SBR, Roscoff
AULNE	2009	2010	River Brittany	Surface	27	Bozec Yann	SBR, Roscoff
ELORN	2009	2009	River Brittany	Surface	28	Bozec Yann	SBR, Roscoff
BIOZAIRE	2003	2004	Trop Atlantic	Water Column	87	Metzl Nicolas	LOCEAN, Paris
EGEE	2005	2007	Trop Atlantic	Surface	199	Metzl Nicolas	LOCEAN, Paris
PIRATA-FR	2009	2010	Trop Atlantic	Surface, Water Column	80	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2011	2011	Trop Atlantic	Surface	62	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2012	2012	Trop Atlantic	Surface, Water Column	68	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2013	2013	Trop Atlantic	Surface	61	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2014	2014	Trop Atlantic	Surface, Water Column	67	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2015	2015	Trop Atlantic	Surface	62	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2016	2016	Trop Atlantic	Surface, Water Column	57	Lefèvre Nathalie	LOCEAN, Paris
PIRATA-FR	2017	2017	Trop Atlantic	Surface	58	Lefèvre Nathalie	LOCEAN, Paris
PLUMAND	2007	2007	Trop Atlantic	Surface	38	Lefevre Nathalie	LOCEAN, Paris
OUTPACE	2015	2015	Trop Pacific	Water Column	240	Wagener Thibaut	MIO, Marseille
PANDORA	2012	2012	Solomon Sea	Water Column	178	Metzl Nicolas	LOCEAN, Paris
TARA PACIFIC	2016	2018	Tropical Pacific and NATL	Surface and sub-surface	325	Douville Eric	LSCE, Gif/Yvette
TARA OCEANS	2009	2012	Global Ocean	Surface + 400m	123	Gattuso Jean-Pierre	LOV , Villefranche/Mer
TARA-MICROBIOM	2021	2022	Atlantic	Surface, Water Column	216	Reverdin Gilles	LOCEAN, Paris
ACE	2016	2017	Southern Ocean	Surface, Water Column	135	Metzl Nicolas	LOCEAN, Paris
MOBYDICK	2019	2019	Southern Ocean	Water Column	64	Lo Monaco Claire	LOCEAN, Paris
CLIM-EPARSES	2019	2019	Indian	Surface	790	Lo Monaco Claire	LOCEAN, Paris
OISO	1998	2018	South Indian, Southern Ocean	Surface	24950	Metzl Nicolas	LOCEAN, Paris
DYFAMED	1998	2017	MedSea	Water Column	2118	Coppola Laurent	LOV , Villefranche/Mer
BOUSSOLE	2014	2019	MedSea	Surface + 10m	172	Boutin Jacqueline	LOCEAN, Paris
SOMLIT-PointB	2007	2015	MedSea Coastal	Surface + 50m	2397	Gattuso Jean-Pierre	LOV , Villefranche/Mer
ANTARES	2010	2016	MedSea	Water Column	502	Lefèvre Dominique	MIO, Marseille
MOLA	2010	2013	MedSea Coastal	Water Column	66	Conan Pascal	LOM/OOB, Banyuls
SOLEMIO	2016	2018	MedSea Coastal	Water Column	212	Wagener Thibaut	MIO, Marseille
MOOSE-GE	2010	2019	MedSea	Water Column	1847	Coppola Laurent	LOV , Villefranche/Mer
LATEX	2010	2010	MedSea	Water Column	51	Anne Petrenko	MIO, Marseille
CARBORHONE	2011	2012	MedSea	Water Column	706	Bozec Yann	SBR, Roscoff
CASCADE	2011	2011	MedSea	Water Column	218	Durrieu de Madron Xavier	CEFREM, Perpignan
DEWEX	2013	2013	MedSea	Water Column	367	Conan Pascal	LOM/OOB, Banyuls
SOMBA	2014	2014	MedSea	Water Column	203	Louanchi Ferial	ENSSMAL, Alger
AMOR-BFLUX	2015	2015	MedSea Coastal	Water Column	6	Lansard Bruno	LSCE, Gif/Yvette
PEACETIME	2017	2017	MedSea	Water Column	233	Gazeau Frédéric	LOV , Villefranche/Mer
PERLE	2018	2021	MedSea	Water Column	805	Wagener Thibaut	MIO, Marseille

Table S2: List of CRM Batch numbers used for cruises in the SNAPO-CO2-V1 dataset

Cruise/Project	Year Start	Year End	Region	CRM Batch Number
AWIPEV-CO2	2015	2021	Arctic	148, 155, 165, 173, 182, 196
SURATLANT+RREX	1993	2017	North Atlantic	64,66,71,73,77,83,88,95,97,99,104,116,119,128,131,136,139,148,155,165
OVIDE	2006	2018	North Atlantic	73, 88, 99, 116, 131, 173
STRASSE	2012	2012	North Atlantic	119
EUREC4A-OA	2020	2020	North Atlantic	182
PROTEUS	2010	2010	North Atlantic coastal	99
CHANNEL	2012	2015	English Channel	104, 116, 139
SOMLIT-Brest	2008	2019	Coastal North Atlantic	83, 88, 92, 95, 97, 99, 104, 111, 116, 139, 155, 173, 182
SOMLIT-Roscoff	2009	2019	Coastal North Atlantic	95,97,99,104,111,116,119,139,155,173,182
ECOSCOPA	2017	2019	Coastal North Atlantic	165,173,182
PENZE	2011	2020	River Brittany	99, 104, 111
AULNE	2009	2010	River Brittany	97 or 99
ELORN	2009	2009	River Brittany	97 or 99
BIOZAIRE	2003	2004	Trop Atlantic	58
EGEE	2005	2007	Trop Atlantic	64,71,73,83
PIRATA-FR	2009	2010	Trop Atlantic	92
PIRATA-FR	2011	2011	Trop Atlantic	104
PIRATA-FR	2012	2012	Trop Atlantic	111
PIRATA-FR	2013	2013	Trop Atlantic	119
PIRATA-FR	2014	2014	Trop Atlantic	131
PIRATA-FR	2015	2015	Trop Atlantic	139
PIRATA-FR	2016	2016	Trop Atlantic	142
PIRATA-FR	2017	2017	Trop Atlantic	155
PLUMAND	2007	2007	Trop Atlantic	83
OUTPACE	2015	2015	Trop Pacific	139
PANDORA	2012	2012	Solomon Sea	119
TARA PACIFIC	2016	2018	Tropical Pacific and NATL	155, 165, 173, 182
TARA OCEANS	2009	2012	Global Ocean	97,99,104,111
TARA-MICROBIOM	2021	2022	Atlantic	197
ACE	2016	2017	Southern Ocean	165
MOBYDICK	2019	2019	Southern Ocean	173
CLIM-EPARSES	2019	2019	Indian	173
OISO	1998	2018	South Indian, Southern Ocean	49,52,58,62,64,65,71,76,77,83,91,97, 104,111,119,131,139,148,155,165,173
DYFAMED	1998	2017	MedSea	64,66,71,72,73,77,83,88, 92,99, 104,111,131,139,148,155,165,173
BOUSSOLE	2014	2019	MedSea	131,139,148,155,165,183,182
SOMLIT-PointB	2007	2015	MedSea Coastal	77,83,88,92,97,99,104,111,116,122,131,139
ANTARES	2010	2016	MedSea	104, 128, 131,139,155,165,182
MOLA	2010	2013	MedSea Coastal	104,116,128
SOLEMIO	2016	2018	MedSea Coastal	165,173,182
MOOSE-GE	2010	2019	MedSea	99,104,116,128, 139,155,165,173,182
LATEX	2010	2010	MedSea	99
CARBORHONE	2011	2012	MedSea	104, 111, 116
CASCADE	2011	2011	MedSea	104
DEWEX	2013	2013	MedSea	122, 128
SOMBA	2014	2014	MedSea	139
AMOR-BFLUX	2015	2015	MedSea Coastal	155
PEACETIME	2017	2017	MedSea	165
PERLE	2018	2021	MedSea	173, 182, 191, 196

Table S3: List of references for cruises in the SNAPO-CO2-V1 dataset

Cruise/Project	Year Start	Year End	Region	References
AWIPEV-CO2	2015	2021	Arctic	Gattuso et al., (2023)
SURATLANT+RREX	1993	2017	North Atlantic	Reverdin et al., (2018, 2022)
OVIDE	2006	2018	North Atlantic	Metz et al., (2018)
STRASSE	2012	2012	North Atlantic	Reverdin (2012)
EUREC4A-OA	2020	2020	North Atlantic	Speich S. and The Embarked Science Team (2021)
PROTEUS	2010	2010	North Atlantic coastal	Division Plans de DMI - SHOM (2010)
CHANNEL	2012	2015	English Channel	Marrec et al., (2014, 2016, 2017)
SOMLIT-Brest	2008	2019	Coastal North Atlantic	Salt et al., (2016)
SOMLIT-Roscoff	2009	2019	Coastal North Atlantic	Gac et al., (2021)
ECOSCOPA	2017	2019	Coastal North Atlantic	Petton et al., (2023)
PENZE	2011	2020	River Brittany	Gac et al., (2020)
AULNE	2009	2010	River Brittany	Unpublished
ELORN	2009	2009	River Brittany	Unpublished
BIOZAIRE	2003	2004	Trop Atlantic	Vangriesheim et al., (2009), Metz et al., (2016)
EGEE	2005	2007	Trop Atlantic	Koffi et al., (2010, 2013)
PIRATA-FR	2009	2010	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018a), Lefèvre et al., (2021)
PIRATA-FR	2011	2011	Trop Atlantic	Lefèvre et al. (2016), Lefèvre (2018b), Lefèvre et al., (2021)
PIRATA-FR	2012	2012	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018c), Lefèvre et al., (2021)
PIRATA-FR	2013	2013	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018d), Lefèvre et al., (2021)
PIRATA-FR	2014	2014	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018e), Lefèvre et al., (2021)
PIRATA-FR	2015	2015	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018f), Lefèvre et al., (2021)
PIRATA-FR	2016	2016	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018g), Lefèvre et al., (2021)
PIRATA-FR	2017	2017	Trop Atlantic	Lefèvre et al., (2016), Lefèvre (2018h), Lefèvre et al., (2021)
PLUMAND	2007	2007	Trop Atlantic	Lefèvre et al., (2010)
OUTPACE	2015	2015	Trop Pacific	Moutin and Bonnet (2015), Wagener et al., (2018a,b)
PANDORA	2012	2012	Solomon Sea	Eldin (2012), Ganachaud et al., (2017)
TARA PACIFIC	2016	2018	Tropical Pacific and NATL	Lombard et al., (2022), Douville et al., (2022)
TARA OCEANS	2009	2012	Global Ocean	Pesant et al., (2015), Ficheral et al., (2014)
TARA-MICROBIOM	2021	2022	Atlantic	Unpublished
ACE	2016	2017	Southern Ocean	Walton and Thomas (2018)
MOBYDICK	2019	2019	Southern Ocean	Obemosterer (2018)
CLIM-EPARSES	2019	2019	Indian	Lo Monaco et al., (2020)
OISO	1998	2018	South Indian, Southern Ocean	Metz et al. (1998), Metz et al., (2006), Leseurre et al., (2022)
DYFAMED	1998	2017	MedSea	Coppola et al., (2008, 2020)
BOUSSOLE	2014	2019	MedSea	Merivat et al., (2018), Golbol et al., (2020)
SOMLIT-PointB	2007	2015	MedSea Coastal	Gattuso et al., (2021), Kapsenberg et al., (2017)
ANTARES	2010	2016	MedSea	Lefèvre (2010), Coppola et al., (2020)
MOLA	2010	2013	MedSea Coastal	Conan et al., (2010)
SOLEMIO	2016	2018	MedSea Coastal	Wimart-Rousseau et al., (2020a,b)
MOOSE-GE	2010	2019	MedSea	Testor et al., (2010), Ulses et al., (2023)
LATEX	2010	2010	MedSea	Patrenko (2010)
CARBORHONE	2011	2012	MedSea	Cariou and Bozec (2011a,b, 2012a,b)
CASCADE	2011	2011	MedSea	Durrieu de Madron (2011), Touratier et al., (2016)
DEVEX	2013	2013	MedSea	Testor (2013), Ulses et al., (2023)
SOMBA	2014	2014	MedSea	Mortier et al., (2014), Keraghel et al., (2020)
AMOR-BFLUX	2015	2015	MedSea Coastal	Rabouille (2015)
PEACETIME	2017	2017	MedSea	Guiou et al., (2020)
PERLE	2018	2021	MedSea	D'Ortenzio and Taillandier (2018), Durrieu de Madron and Conan (2019), Fujo-Pay et al., (2020, 2021), Wimart-Rousseau et al., (2021)

Table S4: List of DOI (cruises or data when available) for cruises in the SNAPO-CO2-V1 dataset

Cruise/Project	Year Start	Year End	Region	DOI (Cruise and/or data)
AWIPEV-CO2	2015	2021	Arctic	<a href="https://doi.org/10.1594/PANGAEA.960131">https://doi.org/10.1594/PANGAEA.960131</a>
SURATLANT+RREX	1993	2017	North Atlantic	<a href="http://www.sea-noe.org/data/00434/54517">http://www.sea-noe.org/data/00434/54517</a>
OVIDE	2006	2018	North Atlantic	<a href="https://doi.org/10.25921/v0qt-ms48">doi:10.25921/v0qt-ms48</a>
STRASSE	2012	2012	North Atlantic	<a href="https://doi.org/10.17600/12040060">https://doi.org/10.17600/12040060</a>
EUREC4A-OA	2020	2020	North Atlantic	<a href="https://doi.org/10.13155/80129">https://doi.org/10.13155/80129</a>
PROTEUS	2010	2010	North Atlantic coastal	<a href="https://doi.org/10.17600/10030040">https://doi.org/10.17600/10030040</a>
CHANNEL	2012	2015	English Channel	<a href="https://doi.org/10.3334/cdiac/ota_coast_ferrybox_rosscoff_plymouth_2012">https://doi.org/10.3334/cdiac/ota_coast_ferrybox_rosscoff_plymouth_2012</a>
SOMLUT-Brest	2008	2019	Coastal North Atlantic	
SOMLUT-Roscoff	2009	2019	Coastal North Atlantic	
ECOSCOFA	2017	2019	Coastal North Atlantic	<a href="https://doi.org/10.17882/86131">https://doi.org/10.17882/86131</a>
PENZE	2011	2020	River Brittany	
AULNE	2009	2010	River Brittany	
ELORN	2009	2009	River Brittany	
BIOZAIRE	2003	2004	Trop Atlantic	<a href="https://doi.org/10.3334/CDIAC/OTG_BIOZAIRE3">doi: 10.3334/CDIAC/OTG_BIOZAIRE3</a>
EGEE	2005	2007	Trop Atlantic	<a href="https://doi.org/10.3334/cdiac/otg_egee1_5">https://doi.org/10.3334/cdiac/otg_egee1_5</a>
PIRATA-FR	2009	2010	Trop Atlantic	<a href="https://doi.org/10.7288/v5ww7fzq">https://doi.org/10.7288/v5ww7fzq</a>
PIRATA-FR	2011	2011	Trop Atlantic	<a href="https://doi.org/10.7288/v5in7f1">https://doi.org/10.7288/v5in7f1</a>
PIRATA-FR	2012	2012	Trop Atlantic	<a href="https://doi.org/10.7288/v55d8q49">https://doi.org/10.7288/v55d8q49</a>
PIRATA-FR	2013	2013	Trop Atlantic	<a href="https://doi.org/10.7288/v5pc30p6">https://doi.org/10.7288/v5pc30p6</a>
PIRATA-FR	2014	2014	Trop Atlantic	<a href="https://doi.org/10.7288/v590rg9">https://doi.org/10.7288/v590rg9</a>
PIRATA-FR	2015	2015	Trop Atlantic	<a href="https://doi.org/10.7288/v5dv1h58">https://doi.org/10.7288/v5dv1h58</a>
PIRATA-FR	2016	2016	Trop Atlantic	<a href="https://doi.org/10.7288/v5im27x1">https://doi.org/10.7288/v5im27x1</a>
PIRATA-FR	2017	2017	Trop Atlantic	<a href="https://doi.org/10.7288/v5ft6lpj">https://doi.org/10.7288/v5ft6lpj</a>
PLUMAND	2007	2007	Trop Atlantic	<a href="https://doi.org/10.17882/53575">https://doi.org/10.17882/53575</a>
OUTPACE	2015	2015	Trop Pacific	<a href="https://doi.org/10.25921/wbkb-0q19">doi:10.25921/wbkb-0q19</a> , <a href="https://doi.org/10.17600/15000900">https://doi.org/10.17600/15000900</a>
PANDORA	2012	2012	Solomon Sea	<a href="https://doi.org/10.17600/12010050">https://doi.org/10.17600/12010050</a>
TARA PACIFIC	2016	2018	Tropical Pacific and NATL	<a href="https://doi.org/10.1594/PANGAEA.944420">https://doi.org/10.1594/PANGAEA.944420</a>
TARA OCEANS	2009	2012	Global Ocean	<a href="https://doi.org/10.1594/PANGAEA.836319">doi:10.1594/PANGAEA.836319</a>
TARA-MICROBIOM	2021	2022	Atlantic	
ACE	2016	2017	Southern Ocean	<a href="https://doi.org/10.5281/zenodo.1443511">https://doi.org/10.5281/zenodo.1443511</a>
MOBYDICK	2019	2019	Southern Ocean	<a href="https://doi.org/10.17600/18000403">https://doi.org/10.17600/18000403</a>
CLIM-EPARSES	2019	2019	Indian	<a href="https://doi.org/10.25921/26rw-w185">https://doi.org/10.25921/26rw-w185</a>
OISO	1998	2018	South Indian, Southern Ocean	<a href="https://doi.org/10.18142/238">https://doi.org/10.18142/238</a> , <a href="http://www.nodc.noaa.gov/oceans/VOS_Program/OISO.html">www.nodc.noaa.gov/oceans/VOS_Program/OISO.html</a>
DYFAMED	1998	2017	MedSea	<a href="https://doi.org/10.18142/131">https://doi.org/10.18142/131</a>
BOUSSOLE	2014	2019	MedSea	<a href="https://doi.org/10.17882/71911">https://doi.org/10.17882/71911</a>
SOMLUT-PointB	2007	2015	MedSea Coastal	<a href="https://doi.org/10.1594/PANGAEA.727120">https://doi.org/10.1594/PANGAEA.727120</a>
ANTARES	2010	2016	MedSea	<a href="https://doi.org/10.18142/239">https://doi.org/10.18142/239</a>
MOLA	2010	2013	MedSea Coastal	<a href="https://doi.org/10.18142/234">https://doi.org/10.18142/234</a>
SOLEMIO	2016	2018	MedSea Coastal	<a href="https://doi.org/10.17882/72356">https://doi.org/10.17882/72356</a>
MOOSE-GE	2010	2019	MedSea	<a href="https://doi.org/10.18142/235">https://doi.org/10.18142/235</a>
LATEX	2010	2010	MedSea	<a href="https://doi.org/10.17600/10450150">https://doi.org/10.17600/10450150</a>
CARBO RHONE	2011	2012	MedSea	<a href="https://doi.org/10.17600/12450140">https://doi.org/10.17600/12450140</a>
CASCADE	2011	2011	MedSea	<a href="https://doi.org/10.17600/11010020">https://doi.org/10.17600/11010020</a>
DBVEX	2013	2013	MedSea	<a href="https://doi.org/10.17600/13020010">https://doi.org/10.17600/13020010</a>
SOIMBA	2014	2014	MedSea	<a href="https://doi.org/10.17600/14007500">https://doi.org/10.17600/14007500</a>
AMOR-BFLUX	2015	2015	MedSea Coastal	<a href="https://doi.org/10.17600/15008700">https://doi.org/10.17600/15008700</a>
PEACETIME	2017	2017	MedSea	<a href="https://doi.org/10.17882/75747">https://doi.org/10.17882/75747</a>
PERLE	2018	2021	MedSea	<a href="https://doi.org/10.17600/18000550">https://doi.org/10.17600/18000550</a> , <a href="https://doi.org/10.17600/18000865">https://doi.org/10.17600/18000865</a> , <a href="https://doi.org/10.17600/18001342">https://doi.org/10.17600/18001342</a> , <a href="https://doi.org/10.17600/18001980">https://doi.org/10.17600/18001980</a>

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