

Supplementary materials

S1 Figures of the temperature climatology

Here, we present the complete temperature climatology corresponding to section 3.2 of the paper. In the paper, only 3 figures
5 are shown (0, 30 and 100m), whereas every depth for which the monthly climatology has been calculated is shown here.

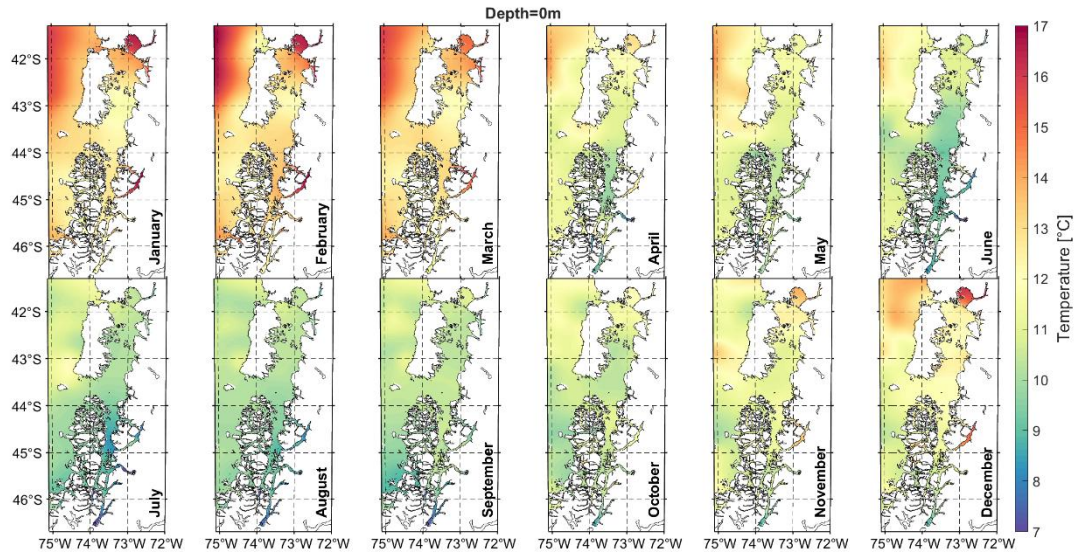


Fig. S 1: Monthly climatology of the sea temperature at 0m depth.

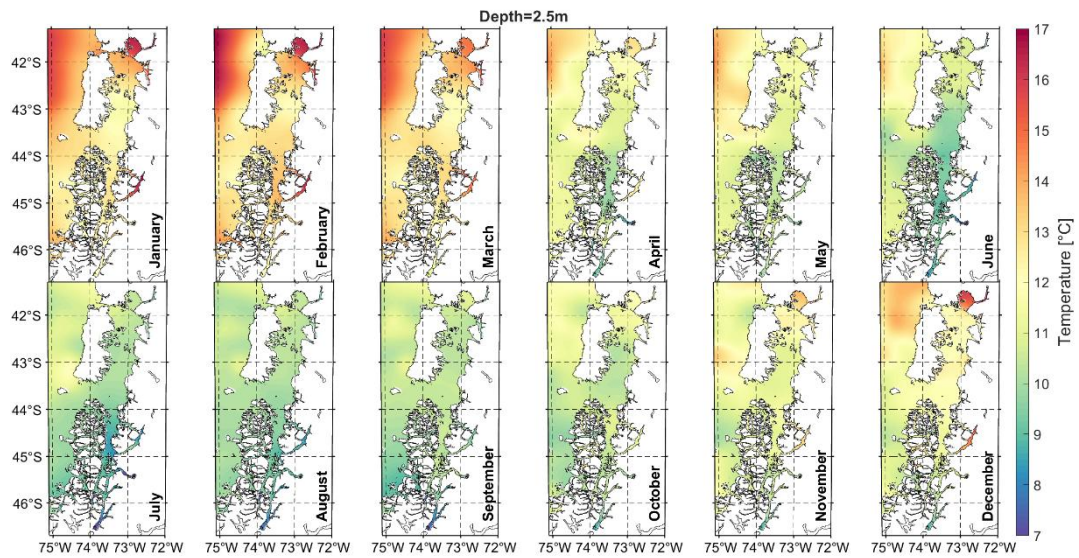


Fig. S 2: Monthly climatology of the sea temperature at 2.5m depth.

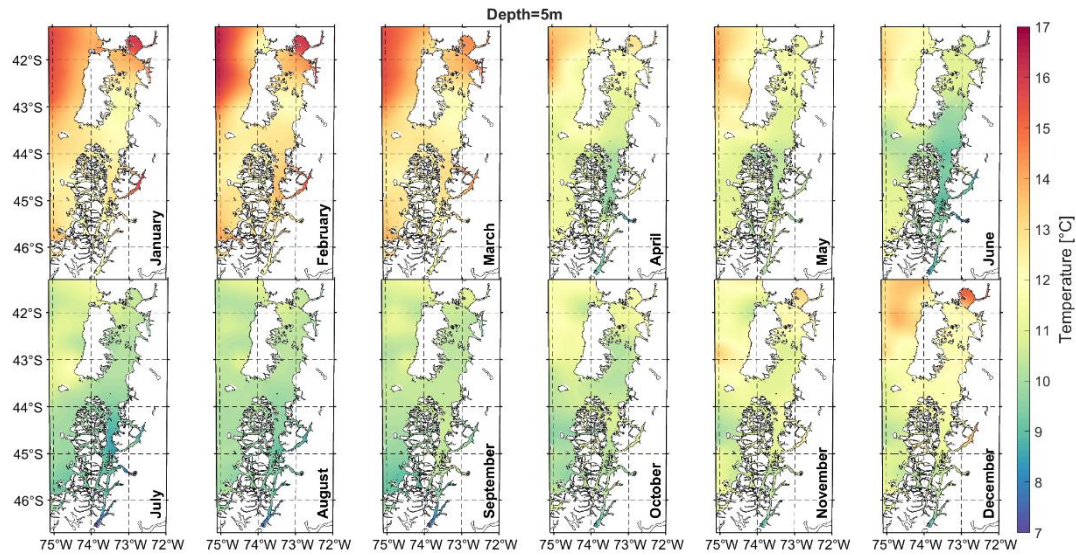


Fig. S 3: Monthly climatology of the sea temperature at 5m depth.

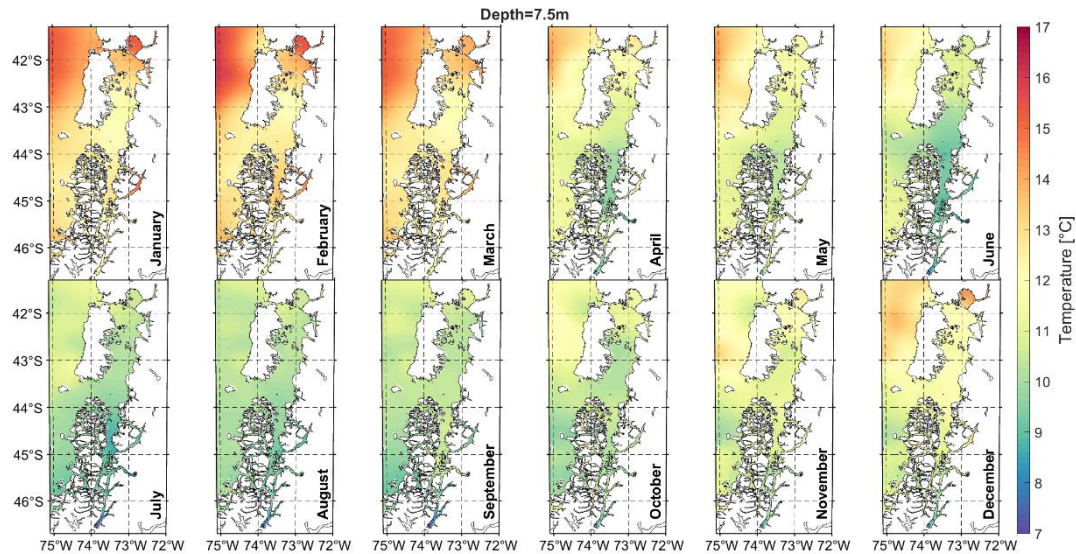


Fig. S 4: Monthly climatology of the sea temperature at 7.5m depth.

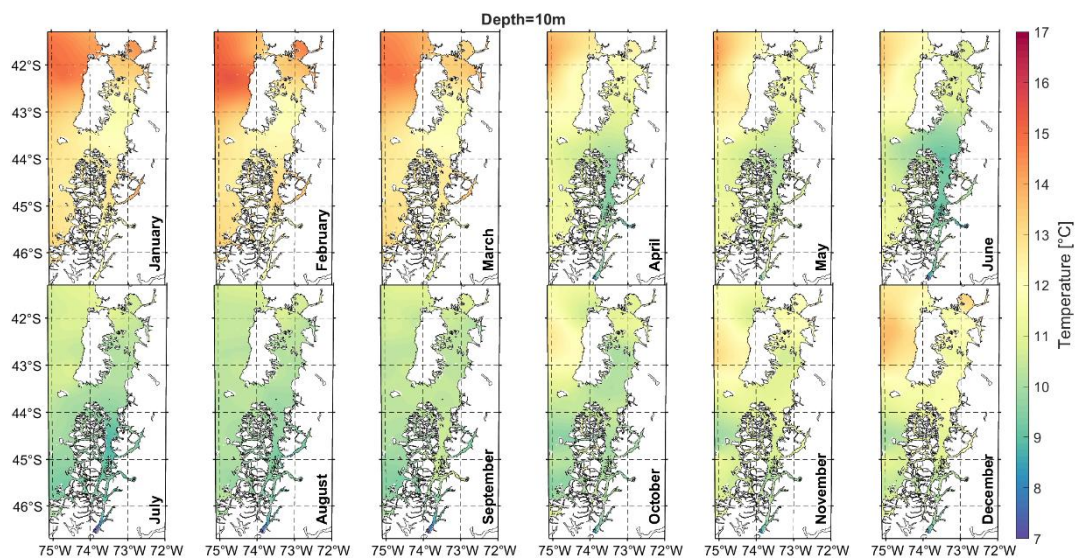


Fig. S 5: Monthly climatology of the sea temperature at 10m depth.

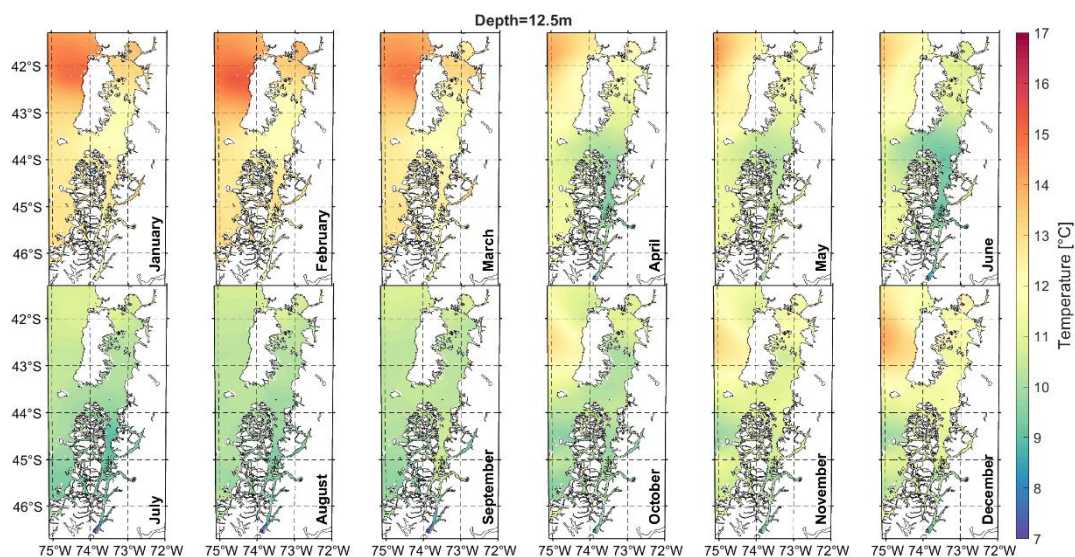


Fig. S 6: Monthly climatology of the sea temperature at 12.5m depth.

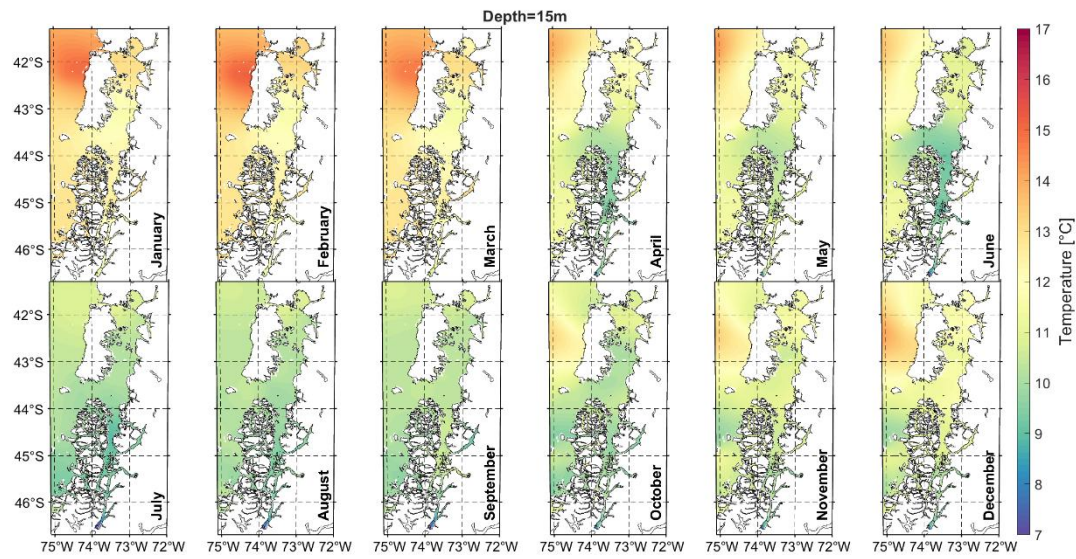


Fig. S 7: Monthly climatology of the sea temperature at 15m depth.

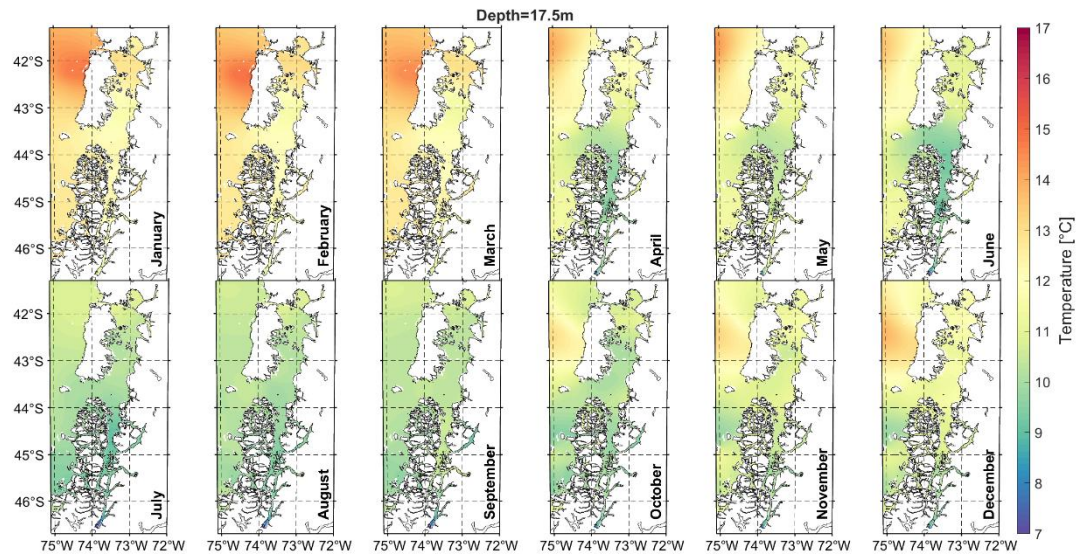


Fig. S 8: Monthly climatology of the sea temperature at 17.5m depth.

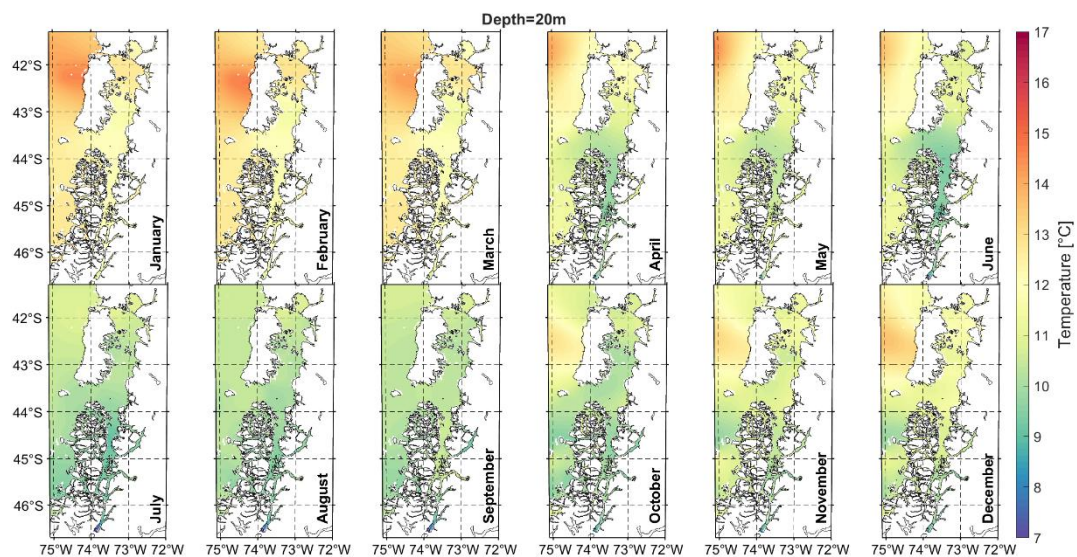


Fig. S 9: Monthly climatology of the sea temperature at 20m depth.

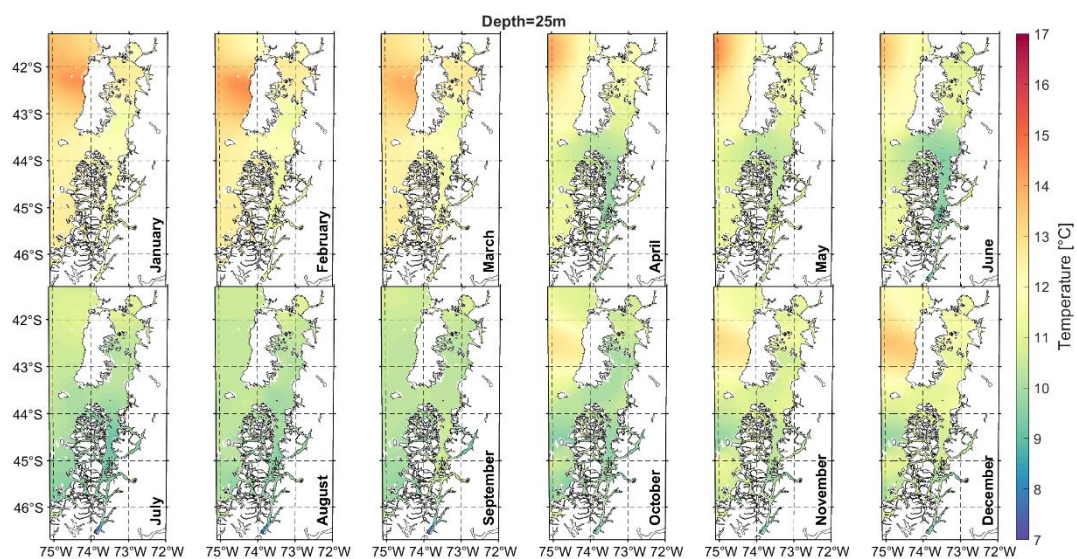


Fig. S 10: Monthly climatology of the sea temperature at 25m depth.

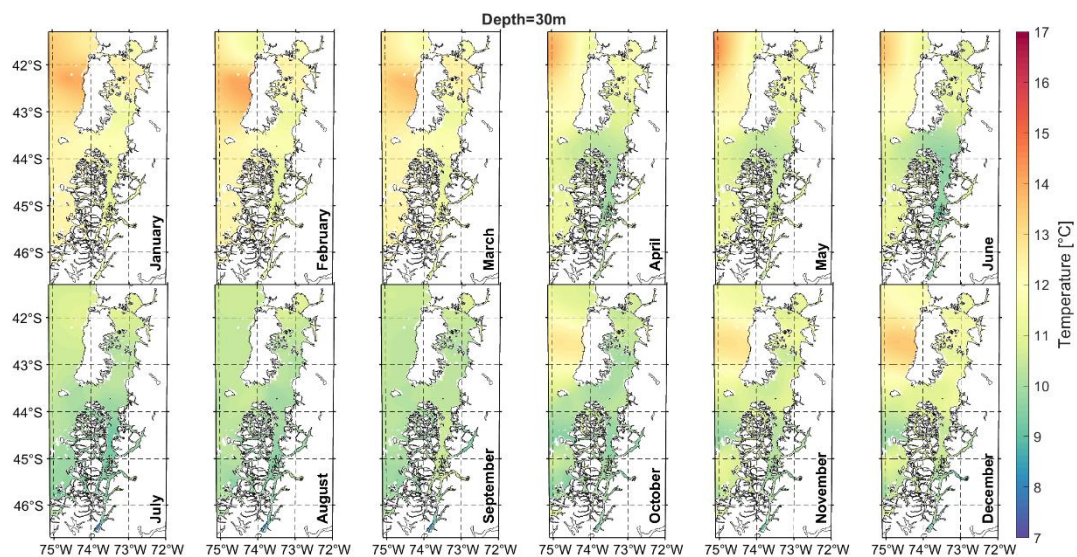


Fig. S 11: Monthly climatology of the sea temperature at 30m depth.

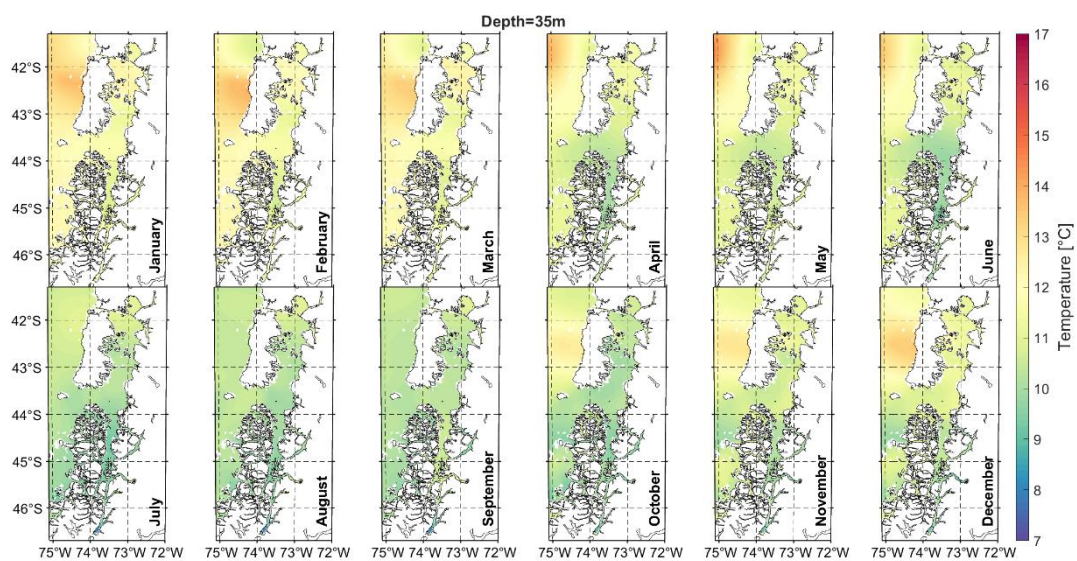


Fig. S 12: Monthly climatology of the sea temperature at 35m depth.

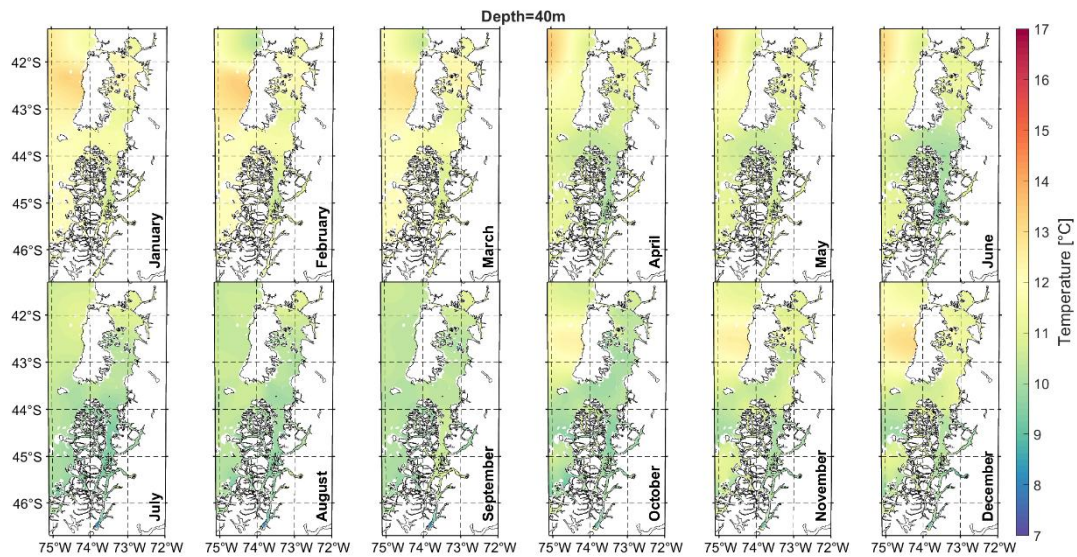


Fig. S 13: Monthly climatology of the sea temperature at 40m depth.

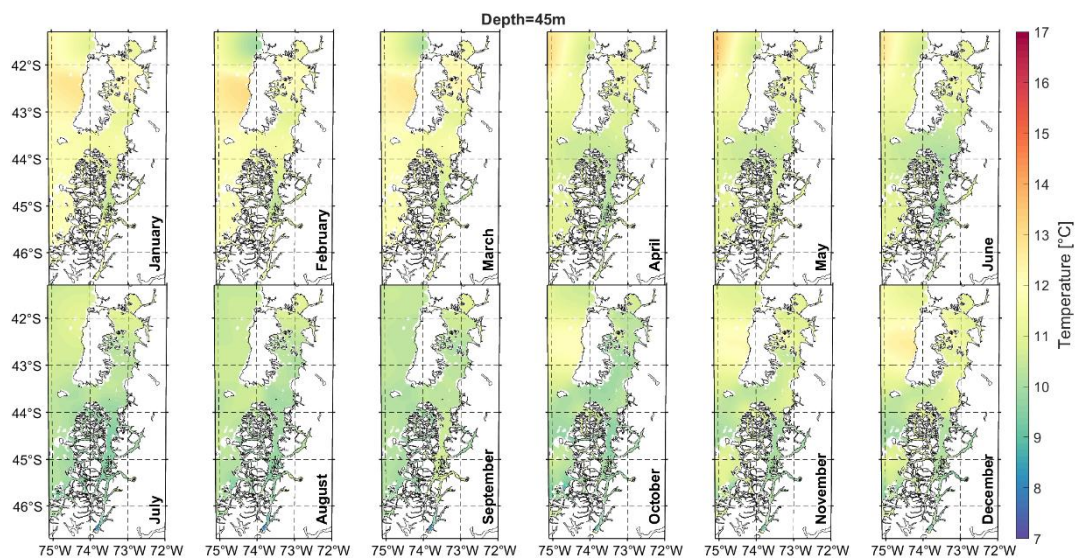


Fig. S 14: Monthly climatology of the sea temperature at 45m depth.

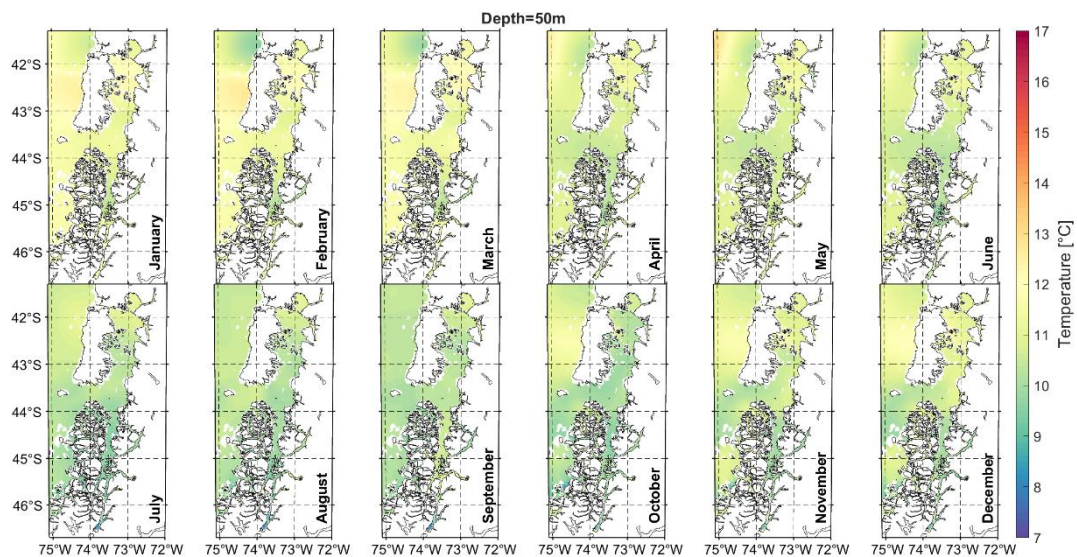


Fig. S 15: Monthly climatology of the sea temperature at 50m depth.

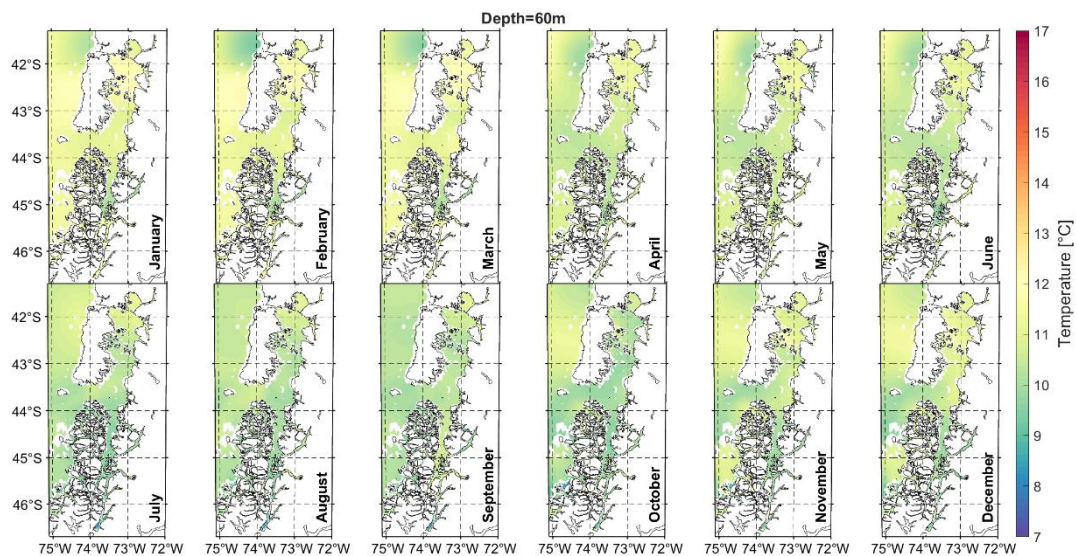


Fig. S 16: Monthly climatology of the sea temperature at 60m depth.

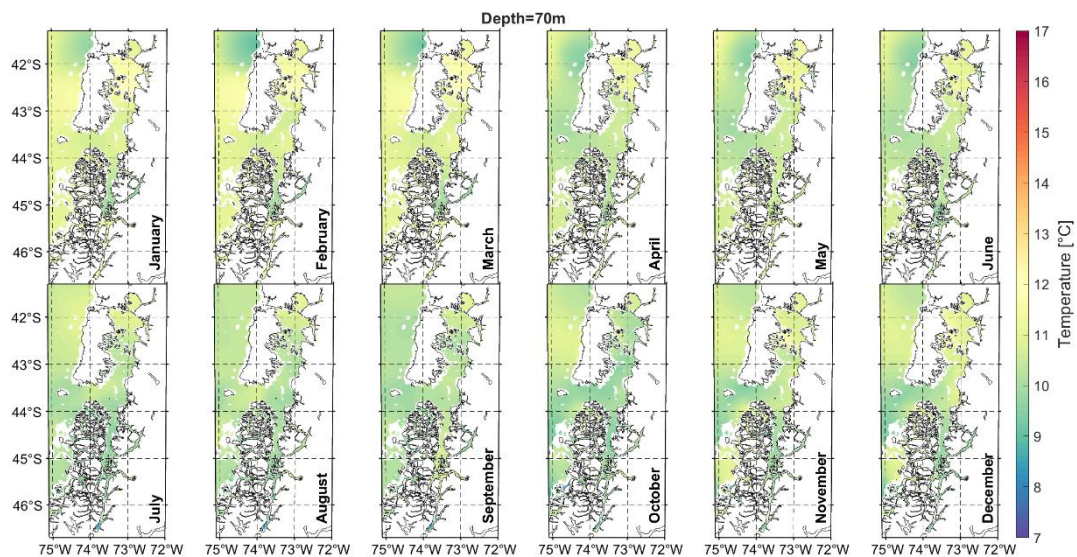


Fig. S 17: Monthly climatology of the sea temperature at 70m depth.

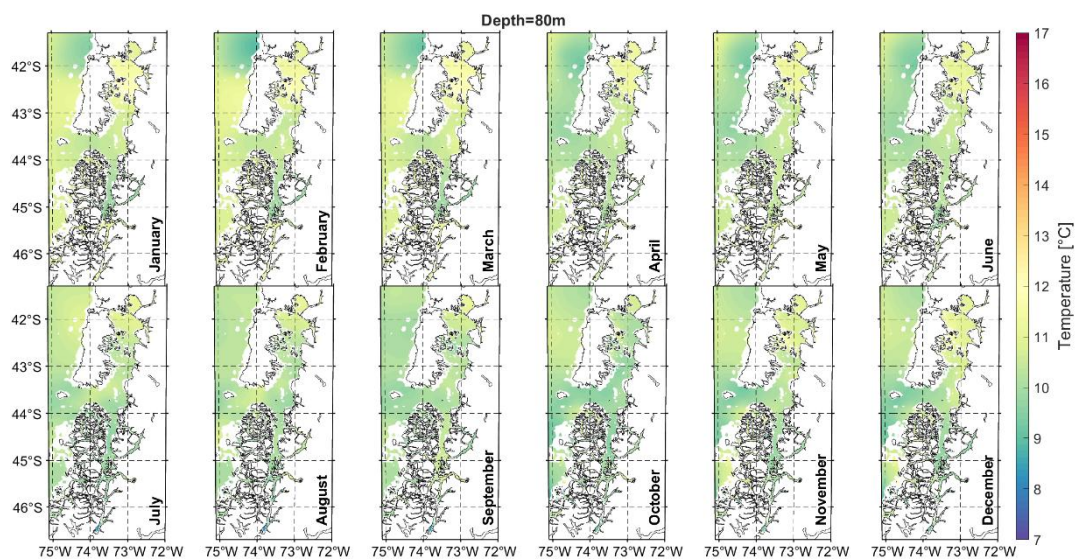


Fig. S 18: Monthly climatology of the sea temperature at 80m depth.

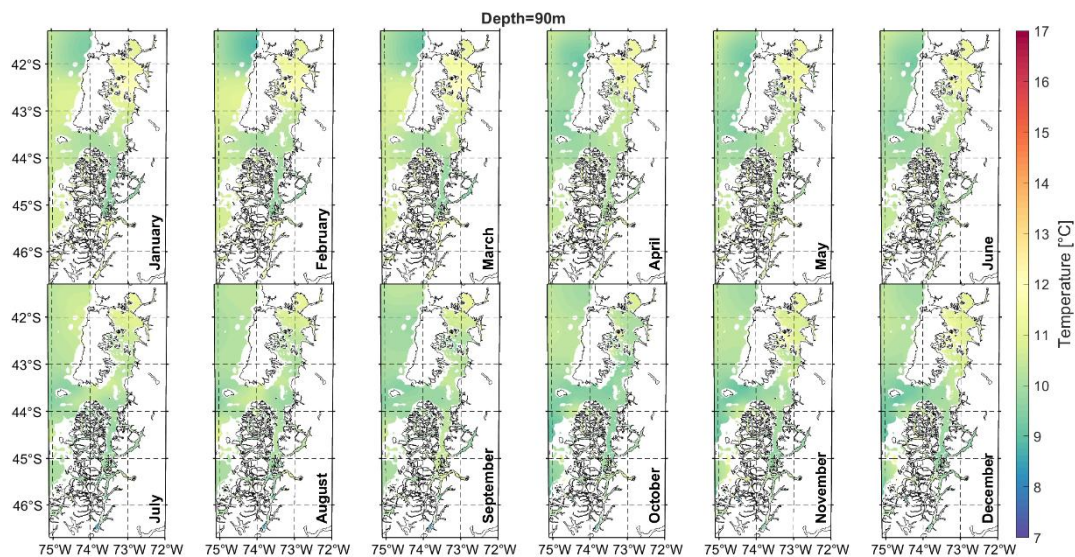


Fig. S 19: Monthly climatology of the sea temperature at 90m depth.

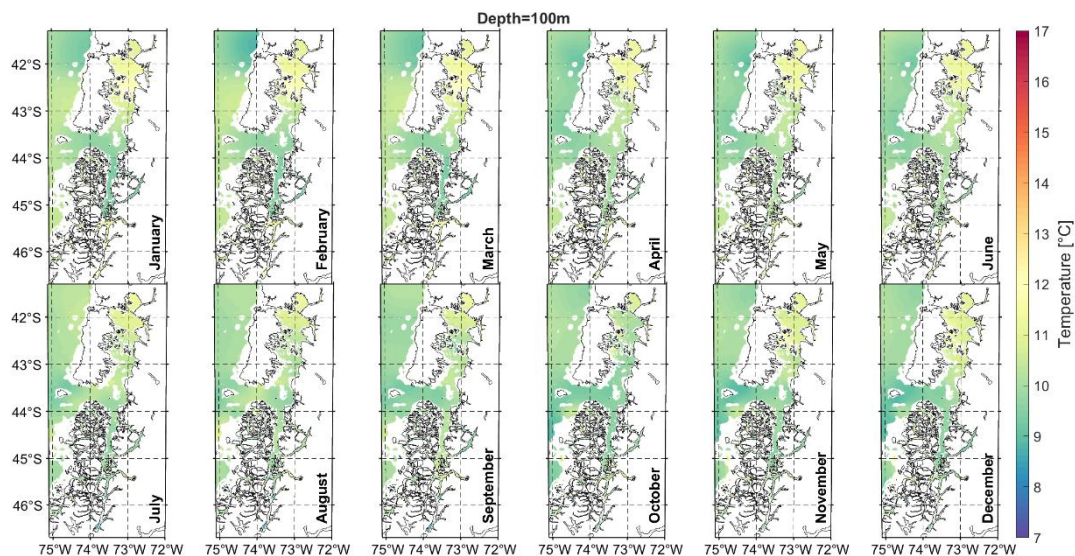


Fig. S 20: Monthly climatology of the sea temperature at 100m depth.

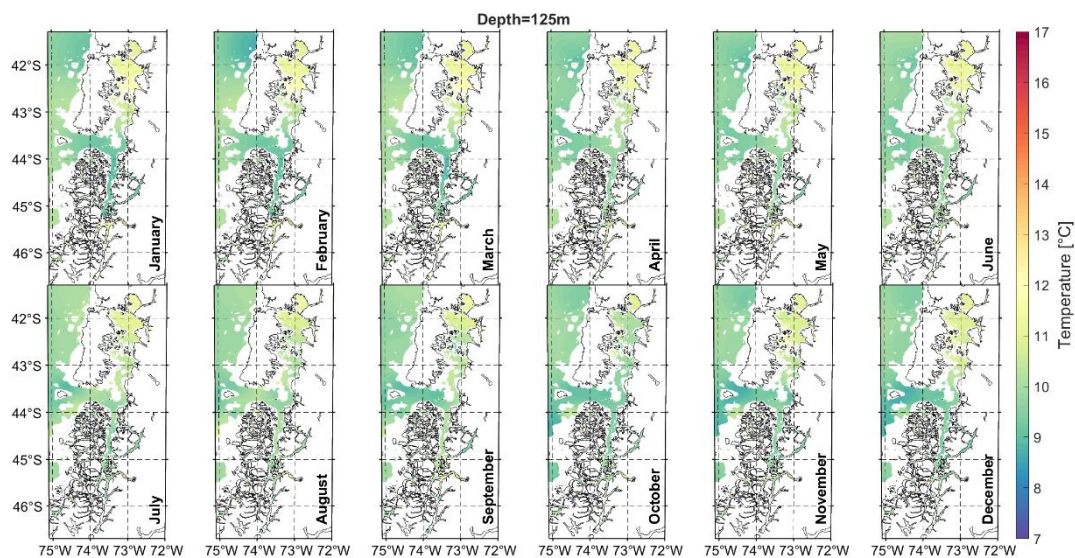


Fig. S 21: Monthly climatology of the sea temperature at 125m depth.

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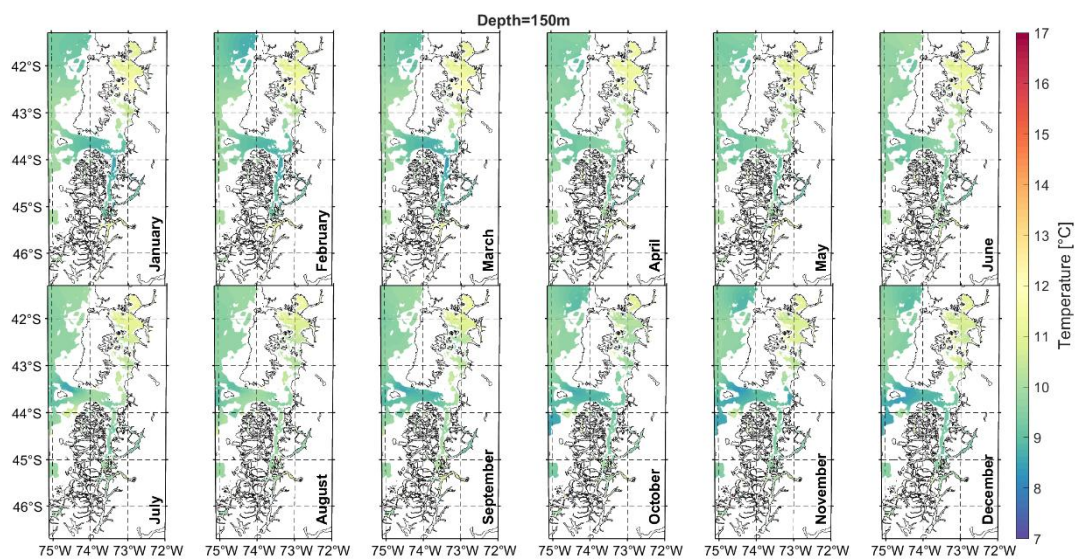


Fig. S 22: Monthly climatology of the sea temperature at 150m depth.

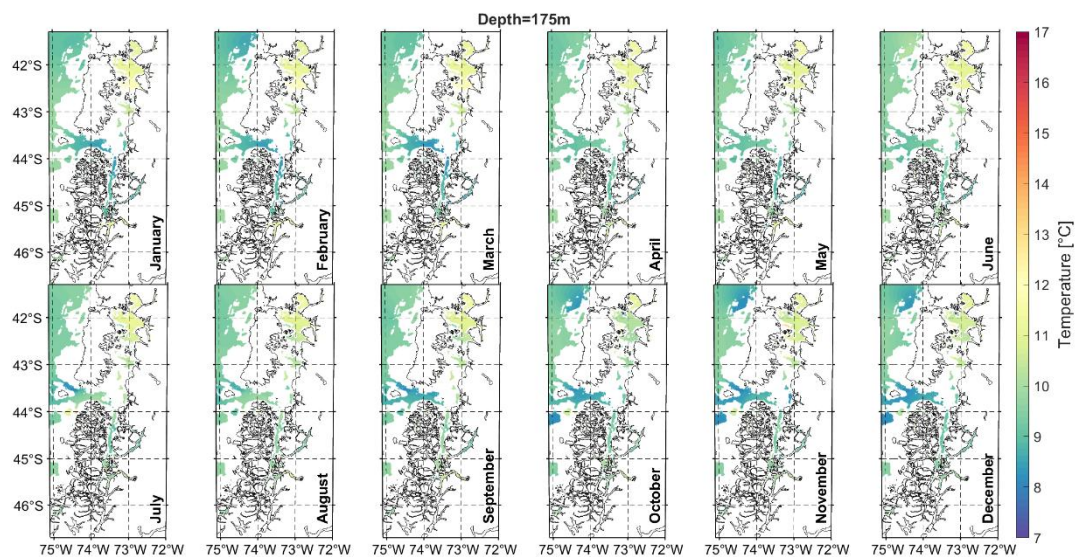


Fig. S 23: Monthly climatology of the sea temperature at 175m depth.

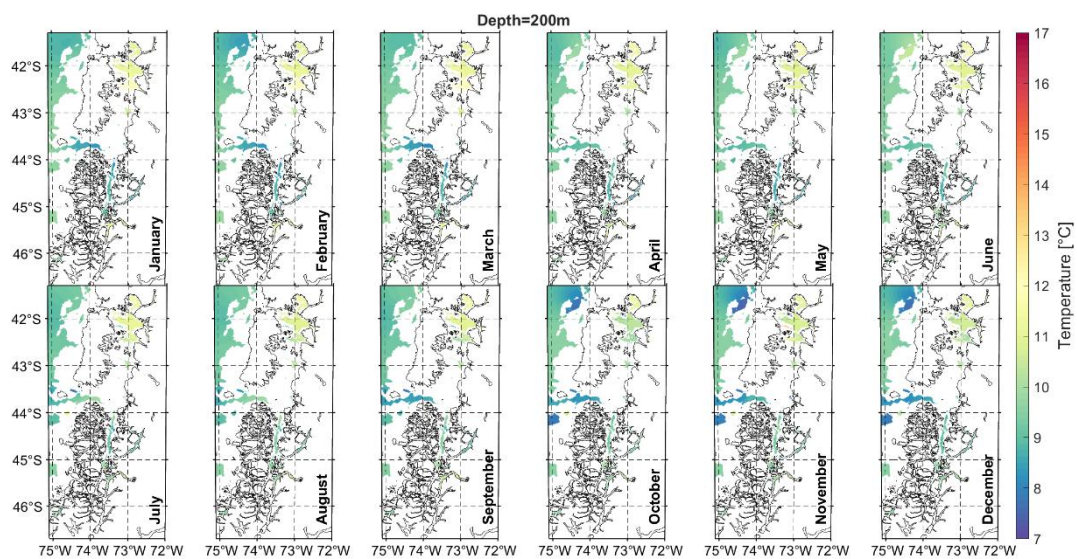


Fig. S 24: Monthly climatology of the sea temperature at 200m depth.

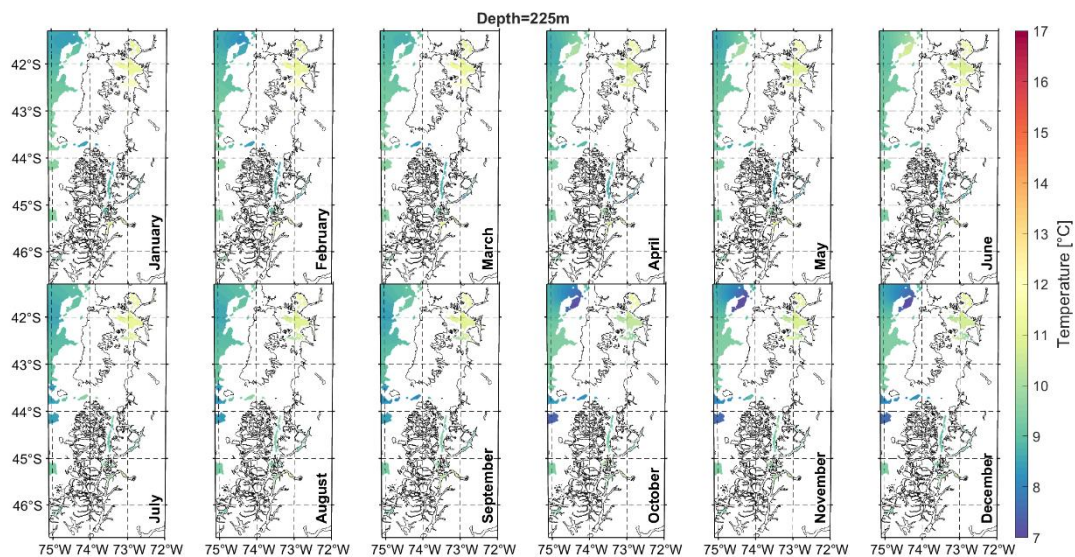


Fig. S 25: Monthly climatology of the sea temperature at 225m depth.

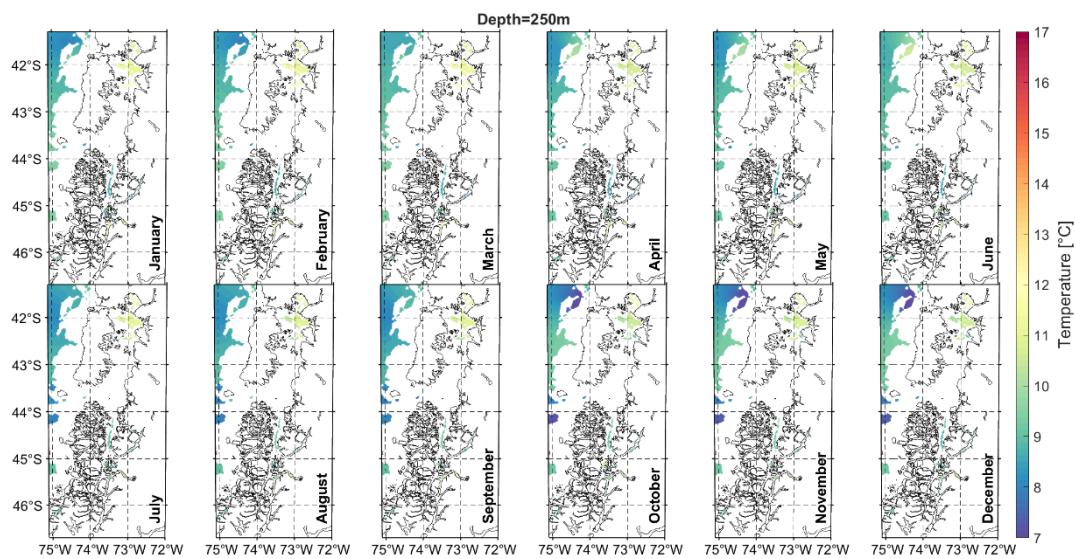


Fig. S 26: Monthly climatology of the sea temperature at 250m depth.

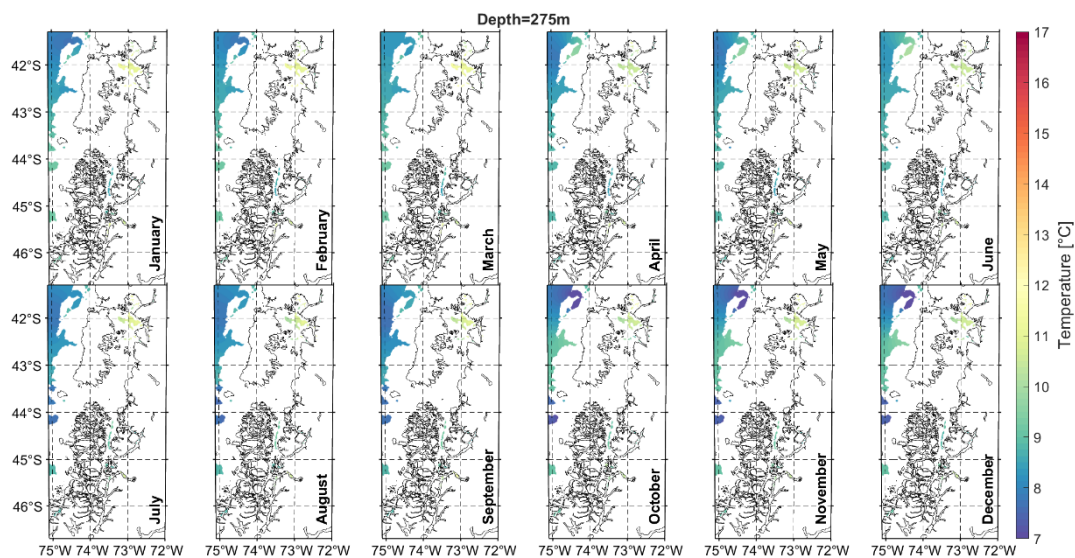


Fig. S 27: Monthly climatology of the sea temperature at 275m depth.

35

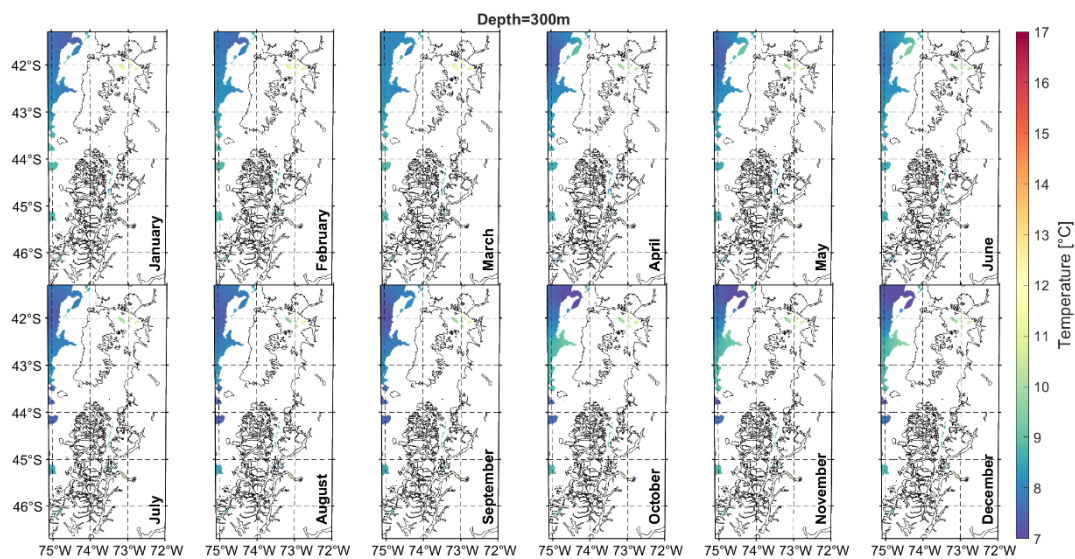


Fig. S 28: Monthly climatology of the sea temperature at 300m depth.

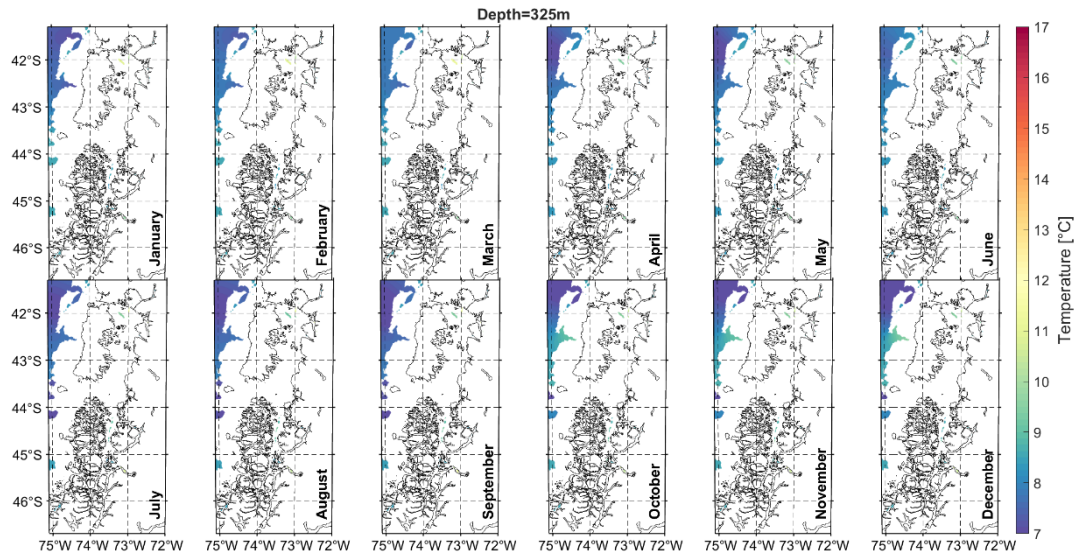


Fig. S 29: Monthly climatology of the sea temperature at 325m depth.

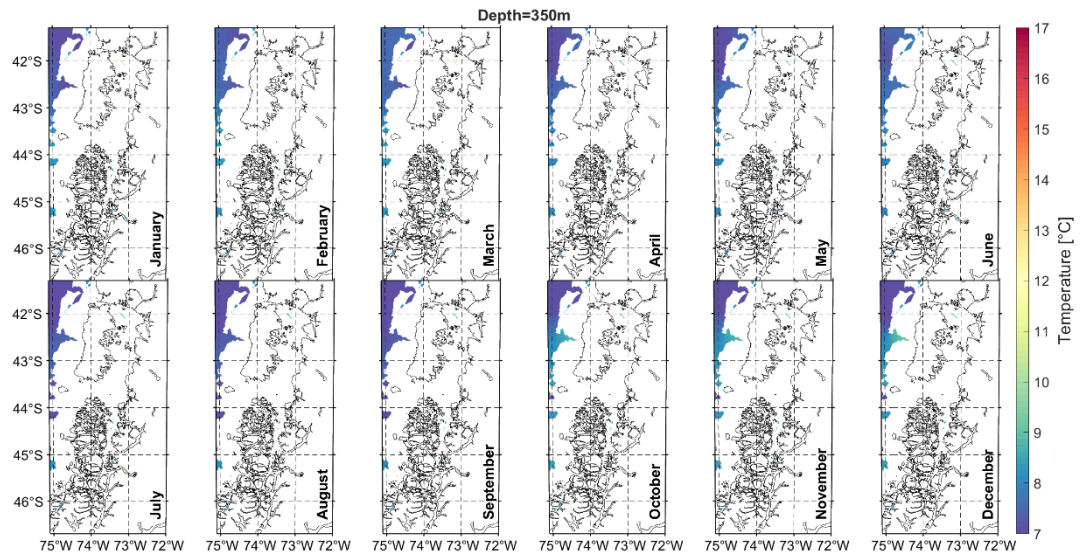


Fig. S 30: Monthly climatology of the sea temperature at 350m depth.

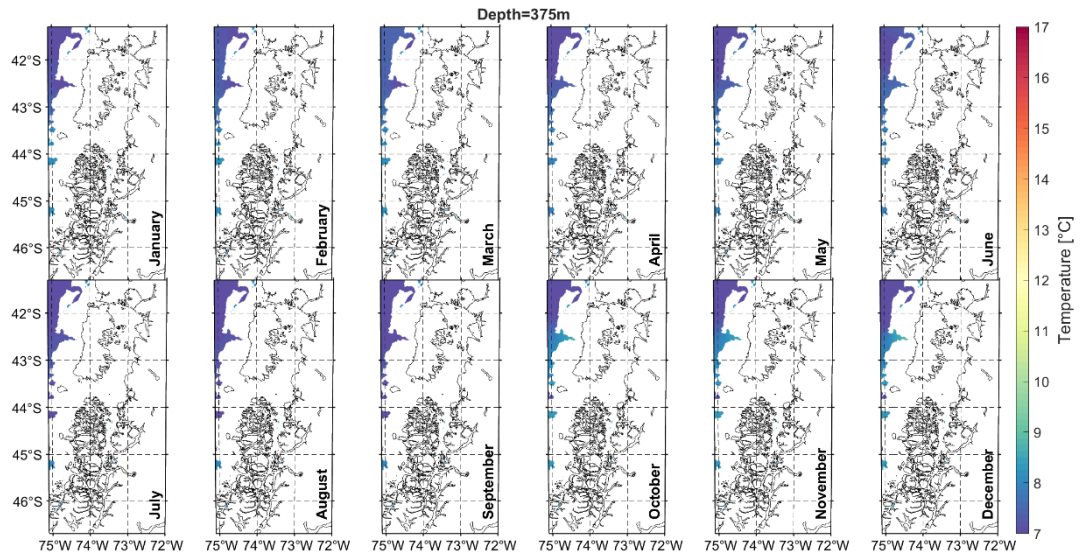


Fig. S 32: Monthly climatology of the sea temperature at 375m depth.

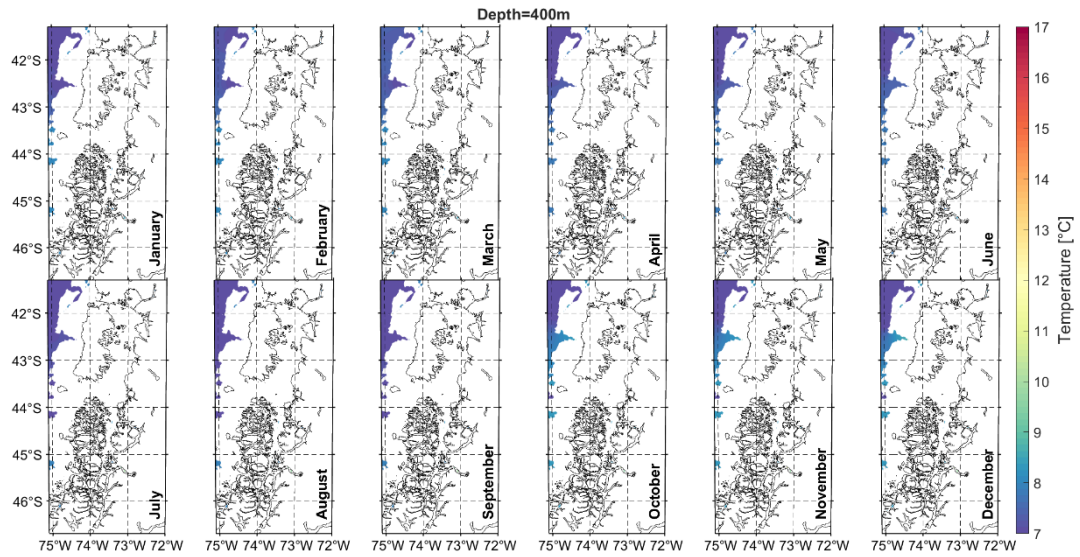


Fig. S 31: Monthly climatology of the sea temperature at 400m depth.

S2 Availability of in situ data

In section 2.2, we describe the use of in situ data to build the temperature climatology. The following table lists all the sources of the in situ data, along with information on the platform type, the institute that conducted the campaigns (if available), and the spatial and temporal extent of the samples.

Table S 1: Origin and information about the in situ data used for the construction of the climatology.

Source/ Provider	Platform type	Institute	Temporal extent	Spatial extend	References
CMEMS	Drifters	/	1950-01-01 to 2021-12-31	All study area	Szekely et al., 2023 ¹
	CTD				
Pangaea	Shallow water monitoring stations	Wagner institute Huinay Scientific Field Station	2009-04-07 to 2014-02-11	Fjord Comau	² to ⁵⁴
				Fjord Renihue	
				Fjord Piti Palena	
				Repollal Islands	
EMODnet	Drifting buoys	/	2016-09-20 to 2021-05-31	All study area	⁵⁵ to ⁵⁹
World Ocean Database (WOD)	CTD (conductivity temperature depth)	/	1948-11-23 to 2020-05-12	Open Ocean, West of the Sea of Chiloé	Boyer et al., 2018 ⁶⁰
	OSD (ocean station data)				
	XBT (expandable bathythermograph)				
	MBT (Mechanical Bathythermograph)				
	APB (Autonomous Pinniped Bathythermographs)				
	PFL (Profiling Floats)				
Centro de datos oceanográficos y meteorológicos (CDOM)	Anchored buoy	COPAS Sur- Austral	2013-03-09 to 2014-06-19	Reloncaví Fjord (Cochamo) -72,31E, -41,52N	http://cdom.cl/

			2010-07-01 to 2018-04-06	Puyuhuapi Fjord -72.72E, -44.58N	
Centro de investigaciones i~mar	Anchored buoy	Centro de investigaciones i~mar	2017-04-28 to 2023-09-01	Reloncaví Sound -72.8345E, -41.6364N	http://cdom.cl/
		COPAS Sur- Austral			
Centro de investigaciones i~mar	CTD	Centro de Instrucción y Capacitación Marítima (CIMAR)	1970-03-20 to 2022-09-01	All study area (especially interior Sea of Chiloé)	...
	Microprofiler	Centro de investigaciones i~mar			
		Instituto de Fomento Pesquero (IFOP)			

50 The following pages list the different sources and/or DOIs for the in situ data shown in the table above.

S2.1 CMEMS

¹Szekely Tanguy, Gourrion Jerome, Pouliquen Sylvie, Reverdin Gilles (2023). CORA, Coriolis Ocean Dataset for Reanalysis. SEANOE. <https://doi.org/10.17882/46219>

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S2.2 Pangaea

Coming from shallow depth monitoring stations in different fjords of the north of the Inner Sea of Chiloé. Listed by localisation.

60

Comau

²2009 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter; Funke, Tobias; Richter, Claudio (2018): Physical oceanographic profiles of CTD casts at X-Huinay and Punta Gruesa (Comau Fjord) in April 2009. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.894699>

65

³2011 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter; Sswat, Michael; Baumgarten, Sebastian; Richter, Claudio (2017): Physical oceanographic profiles of seven CTD casts from Gulf of Ancud into

Comau Fjord in 2011. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.884120>

⁴2012 Fillinger, Laura; Richter, Claudio (2013): Physical oceanography during expedition Comau2012. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.811832>

⁵2012 phys oce Fillinger, Laura; Richter, Claudio (2013): Physical oceanography during expedition Comau2012. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.811832>

⁶2013 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter; Goehlich, Henry (2017): Physical oceanographic profiles of 14 CTD casts from Gulf of Ancud into Comau Fjord in 2013. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.874259>

⁷2014 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter; Goehlich, Henry (2014): Physical oceanographic profiles of seven CTD casts from Gulf of Ancud into Comau Fjord in 2014. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.832187>

Huinay

⁸2010 Laudien, Jürgen; Baumgarten, Sebastian; Jantzen, Carin; Richter, Claudio; Steinmetz, Richard; Häussermann, Verena; Försterra, Günter (2012): Water temperature at station Huinay, Comau Fjord, Patagonia, Chile in 2010. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.783633>

⁹2012-13 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2013): Water temperature at time series station Huinay Jetty, Comau Fjord, Patagonia, Chile in 2012/2013. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.843752>

¹⁰2013-14 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2014): Water temperature at time series station Huinay Jetty, Comau Fjord, Patagonia, Chile in 2013/2014. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.843753>

¹¹2014-15 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2015): Water temperature at time series station Huinay Jetty, Comau Fjord, Patagonia, Chile in 2014/2015. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.843770>

¹²2015-16 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter; Richter, Claudio (2017): Water temperature at time series station Huinay Jetty, Comau Fjord, Patagonia, Chile in 2015/2016. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872935>

Liliguapi

¹³2010 Laudien, Jürgen; Baumgarten, Sebastian; Jantzen, Carin; Richter, Claudio; Steinmetz, Richard; Häussermann, Verena; Försterra, Günter (2012): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2010. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.783296>

¹⁴2011-12 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2012): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2011/2012. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.777752>

¹⁵2012-13 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2013): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2012/2013. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.818388>

¹⁶2013-14 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2014): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2013/2014. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.830086>

¹⁷2014-15 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2015): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2014/2015. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.843773>

¹⁸2015 02 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2015): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2015-02. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.845259>

¹⁹2015-16 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2017): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2015/2016. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872161>

²⁰2016-17 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2017): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2016/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872121>

²¹2017-18 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2021): Water temperature at time series station Liliguapi, Paso Comau, Patagonia, Chile in 2017/2018. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.933275>

Near Swall

²²Laudien, Jürgen; Schmidt, Gertraud; González Estay, Humberto; Höfer, Juan; Häussermann, Verena; Försterra, Günter; Richter, Claudio (2017): Water temperature at time series station Near SWALL, Comau Fjord, Patagonia, Chile in 2016/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872480>

Pirate Cove

²³2016-17 Laudien, Jürgen; Schmidt, Gertraud; González Estay, Humberto; Höfer, Juan; Häussermann, Verena; Försterra, Günter; Richter, Claudio (2017): Water temperature at time series station Pirate Cove, Comau Fjord, Patagonia, Chile in 2016/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872482>

Punta Gruesa

²⁴2010 Laudien, Jürgen; Baumgarten, Sebastian; Jantzen, Carin; Richter, Claudio; Steinmetz, Richard; Häussermann, Verena; Försterra, Günter (2012): Water temperature at station Punta Gruesa, Comau Fjord, Patagonia, Chile in 2010. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.783293>

Rio Tambor

²⁵Laudien, Jürgen; Schmidt, Gertraud; González Estay, Humberto; Höfer, Juan; Häussermann, Verena; Försterra, Günter; Richter, Claudio (2017): Water temperature at time series station Rio Tambor, Comau Fjord, Patagonia, Chile in 2016/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872483>

Soledad

²⁶2015-17 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2017): Water temperature at time series station Soledad, Paso Comau, Patagonia, Chile in 2015/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872183>

Swall

²⁷2010 Laudien, Jürgen; Baumgarten, Sebastian; Jantzen, Carin; Richter, Claudio; Steinmetz, Richard; Häussermann, Verena; Försterra, Günter (2012): Water temperature at station SWALL, Comau Fjord, Patagonia, Chile in 2010. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.783302>

X-Huinay North

²⁸2014-15 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2015): Water temperature at time series station X-Huinay North, Comau Fjord, Patagonia, Chile in 2014/2015. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.845371>

²⁹2015-16 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter; Richter, Claudio (2017): Water temperature at time series station X-Huinay North, Comau Fjord, Patagonia, Chile in 2015/2016. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872936>

³⁰2016-17 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2017): Water temperature at time series station X-Huinay North, Comau Fjord, Patagonia, Chile in 2016/2017. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.872157>

X-Huinay

³¹2010 Laudien, Jürgen; Baumgarten, Sebastian; Jantzen, Carin; Richter, Claudio; Steinmetz, Richard; Häussermann, Verena; Försterra, Günter (2012): Water temperature at station X-Huinay, Comau Fjord, Patagonia, Chile in 2010. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.783284>

³²2011-12 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2012): Water temperature at station X-Huinay, Comau Fjord, Patagonia, Chile in 2011/2012. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.777693>

³³2012 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2013): Water temperature at time series station X-Huinay, Comau Fjord, Patagonia, Chile in 2012. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.818434>

³⁴2013-14 Laudien, Jürgen; Jantzen, Carin; Häussermann, Verena; Försterra, Günter (2014): Water temperature at station X-Huinay, Comau Fjord, Patagonia, Chile in 2013/2014. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.830087>

³⁵2014-15 Laudien, Jürgen; Häussermann, Verena; Försterra, Günter (2015): Water temperature at time series station X-Huinay, Comau Fjord, Patagonia, Chile in 2014/2015. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, PANGAEA, <https://doi.org/10.1594/PANGAEA.845260>

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S2.3 EMODnet

The dataset was extracted from the Ocean Browser EMODnet (European Marine Observation and Data Network, URL: <https://emodnet.ec.europa.eu/en/physics/>; last access in 2022)

⁵⁵<https://doi.org/10.13155/59938>

⁵⁶<https://doi.org/10.13155/40846>

⁵⁷<https://doi.org/10.13155/53381>

⁵⁸<https://doi.org/10.13155/36230>

⁵⁹<https://doi.org/10.13155/43494>

S2.4 World Ocean Database (WOD)

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