CARBON TIME SERIES STATIONS: ATLANTIC

International Ocean Carbon Coordination Project (www.ioccp.org)
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Mooring/Station/ Ship name	Date of operation	Location	Description	Frequency (i.e. monthly, continuous)	PI	Country
Atlantic						
Stations monitored from ships						
Iceland Sea	1983-	68°N 12.66°W	Profile, pCO_2 and TIC, O_2 and nutrients	4/year	J. Olafsson	Iceland
Irminger Sea	1983-	64.3N,28°W	Profile, pCO_2 and TIC, O_2 and nutrients	4/year	J. Olafsson	Iceland
Labrador Sea (Bravo)	1993-	57N,53W		1/year	K. Azetsu-Scott	Canada
JetSet		53N, 4E46' Marsdiep tidal channel	DIC, Alkalinity	weekly	H. Zemmelink	Netherlands
L4/Plymouth Quest	2005-2009	W. English Channel	Time series station since 1988, pCO_2 added in 2005.	Weekly	N. Hardman-Mountford	UK
E1/Plymouth Quest	2005-2009	W. English Channel	Time series station since 1903, pCO_2 added in 2005.	Monthly	N. Hardman-Mountford	UK
NW Atlantic Hydro Station S	1983-	32N, 65W		Monthly	A. Dickson	USA
NW Atlantic BATS/OFP/BTM	1988-	32N 65W			N. Bates	Bermuda/ USA
NE Atlantic ESTOC	1995-	29N,16W	European Station for Time series in the Ocean at the Canary Islands	Monthly	M. Gonzalez/M. Santana	Spain
RV Islandia/CV	2007-	17.5°N, 24.3°W		Monthly	D. Wallace A. Körtzinger	Germany

Cariaco time series station/R.V. "Hermano Ginés"	1996-	10° 30' N, 64° 40' W (Cariaco Basin, Atlantic)	Water column core measurements up to 1310 m, including carbon measurements: POC, DOC, CO_2, TOC	Monthly, on going	Time series: F. Muller-Karger CO_2 measurements: Y.M. Astor	Venezuela
Stations monitored by moorings						
Central Irminger Sea (CIS)	2003-	59.7°N, 39.7°W		Continuous	A. Körtzinger	Germany
Baltic Sea	2000-	Östergarns-holm	SAMI pCO_2 mooring and air CO_2 flux measurements	Continuous	A. Rutgersson Owenius	Sweden
Norwegian Sea OWS Station M	1992-	66°N, 2°E (Arctic)	Water column and surface measurements	Continuous	I. Skjelvan T. Johannessen	Norway
Ste Anna	2002-2010	Upper Scheldt estuary	Fixed station for continuous measurements of pCO_2, salinity and temperature	Continuous	A. Borges	Belgium
K1	2001/2002 2004-2007	56.5°N, 52.6°W (near Bravo)	Long-term mooring	Continuous	A. Körtzinger	Germany
Porcupine Abyssal Plain (PAP)	2003-	49N, 16.5W	Long term mooring	Continuous	A. Körtzinger	Germany
MAREL-Iroise	Feb 2003-	48°22' N 4°33' W	Hourly measurements by a CARIOCA sensor (modified for coastal measurements) at 1.5m depth	Continuous	E. Bucciarelli	France
Scotian Shelf	2007-	44.68N 63.61W	CARIOCA buoy	Hourly 2007-	H. Thomas	Canada
Martha's Vineyard, MA	2002-	43°N	pCO_2	Continuous	W. McGillis	USA
MINAS	2005-	43ºN, 11ºW	Multidisciplinary Iberian North Atlantic Station. CARIOCA buoy with sensors of CO_2, O_2, S, T, Chla.	Continuous	F.F. Perez	Spain
NW Atlantic BATS/OFP/BTM	1988-	32°N 65°W			N. Bates	Bermuda/USA

Grays Reef, Georgia (NDBC 41008)	2006-	31.4°N, 80.9°W		Continuous	C. Sabine	USA
BTM	2005-	31.5°N, 64°W	MAPCO$_2$ system	Continuous	C. Sabine/N. Bates	USA
CV	2007-	17.5°N, 24.3°W		Daily	D. Wallace A. Körtzinger	Germany
Mediterranean						
Stations monitored from ships						
Mediterranean DYFAMED	1991-2001; 2003 – present	43N,7.9E	Water column discrete AT and CT	Monthly	C. Goyet	France
Stations monitored by moorings						
STARESO	2006-2008	Calvi (Corsica)	Shallow mooring for pCO$_2$ and temperature measurements (Pro-Oceanus) over a Posidonia seagrass meadow (water column depth 10m) the Mediterranean Sea	Daily	A. Borges	Belgium
GIFT	2005-ongoing	35.861N, 5.977W 35.912N, 5.746W 35.987N, -5.368W	Time series composed by three stations located in the Strait of Gibraltar aimed at assessing biogeochemical cycles between North Atlantic and Mediterranean Sea	Seasonal	E. Huertas	Spain