

HYDROGRAPHY TABLES: GLOBAL

International Ocean Carbon Coordination Project (www.ioccp.org)

Last Updated: August 2009

Name of the line	Area	Description (ship track)	Year planned	PI	Country
Atlantic					
75N	Nordic Seas	Iceland – Greenland.	2006, 2008	Truls Johannessen Are Olsen	Norway
Arctic Gateway	Atlantic	Greenland to UK	2008	S. Bacon	UK
AR7W	Atlantic (Labrador Sea)	From Labrador to Greenland 53N/56W-61N/48W 1/year (spring)	1993- 1/year	K. Azetsu-Scott (DIC, TA) and G. Harrison / B. Li / P. Kepkay / E. Head (Biogenic carbon – TOC, DOC, phytoplankton, primary and secondary productivity, microbial production and respiration)	Canada
NorthSeaSummer	Basinwide North Sea	Repeat summer (August) cruise doing ca. 92 stations and ca. 22,000 underway surface pCO ₂	2001, 2005; next 2008	2008: H. Zemmeling, past 2001, 2005: H. Thomas	Netherlands
A05	Atlantic	24°N	2011	R. Wanninkhof	USA
A05 / 24N section	Atlantic	Reoccupation of 24N section (Funding for CO ₂ + tracers uncertain)	Autumn 2009	S. Cunningham, A. Watson, U. Schuster	UK
A13.5	Atlantic	0°	2009	R. Wanninkhof	USA
A20	Atlantic	52°W	2012	R. Wanninkhof	USA
A22	Atlantic	66°W	2012	R. Wanninkhof	USA
A21	Atlantic	Drake Passage	2009	E. McDonagh	UK
A10	Atlantic	30°S	2009	B. King	UK
SO4A	Southern / Atlantic	Line from tip of Antarctic Peninsula to 30 E along the northern edge of the Weddell gyre (nominally 60 S)	2008/09/10 (proposal under review)	A. Naveira Garabato D. Bakker	UK
OVIDE	Atlantic	Iberian Peninsula – Greenland	2008, 2010	A.Rios	Spain

FICARAM	Atlantic	Ushuaia – Cartagena (Spain), following part of the line WOCEA A17 and from 10°S to 36°N along 28°W	2009	A. Rios	Spain
FS Polarstern	S. Atlantic and Southern Ocean	Capetown – Antarctica (Prime Meridian) Weddell Sea: Kapp Norvegia – Joinville Island	2008 2010	M. Hoppema	Germany
R/V Merion 07	Tropical Atlantic	Dakar- Las Palmas	2008	A. Körtzinger	Germany
Antarctic Zero Meridian	Antarctic-Atlantic sector	Repeat section along zero meridian from Polar Front (ca. 50 S) to Antarctica; once every 2-3 years, focus on DIC in complete water column, surface pCO ₂ in some but not all past cruises	since 1984 AJAX cruise onwards; next Feb-Apr 2008	M. Hoppema collaborative effort with Royal NIOZ	Netherlands

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Pacific					
P02	Pacific	30° N	2013	R. Feely	USA
P13	Pacific	165°E	2011	To be conducted by JMA.	Japan
P09	Pacific	137°E	2010	To be conducted by JMA.	Japan
P03 to the west of the date line	Pacific; Japan to data line	24°N	2013 not fixed	To be conducted by JMA.	Japan
P06	Pacific	30°S	2012	R. Feely	USA
Line P	Pacific	BC coast to 50° N, 145° W. CTD casts at 27 stations, water properties (nutrients, oxygen) at 5 to 7 stations.	3/yr over next decade	M. Robert DIC/Alk by Lisa Miller	Canada
P15S	S. Pacific	Equator – 50°S 175°W	2009	B. Tilbrook	Australia
P16N / S	Pacific	151°W	2014	R. Feely	USA
P21	Pacific	17°S	2009	A. Murata	Japan
RUSALCA	Arctic	Bering and Chukchi Seas	2008; 1/yr	Nick Bates	USA/Russia

Name of the line	Area	Description (ship track)	Year planned	PI	Country
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Indian					
I07N	Indian	65°E	2009 / postponed	C. Sabine	USA
I09S	Indian	115° E	2012	B. Tilbrook	Australia
I09S / Fremantle to Prydz Bay	S. Indian	Leaving from Fremantle of Australia, pass southern Indian Ocean, transactions investigation between 60°S and 69°S.	Yearly except for modification year.	Z. Dong	China
OISO	S. Indian	low resolution hydrocasts	1998-	N. Metzl	France

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Southern Ocean					
S04P	Pacific	60°S	2009	R. Feely	USA
Antarctic Zero Meridian	Southern Ocean; Atlantic sector	Repeat section along zero meridian from Polar Front (ca. 50 S) to Antarctica; once every 2-3 years, focus on DIC in complete water column, surface pCO ₂ in some but not all past cruises	since 1984 AJAX cruise onwards; next Feb-Apr 2008	M. Hoppema collaborative effort with Royal NIOZ	Netherlands
FS Polarstern	Southern Ocean; Atlantic sector	Capetown – Antarctica (prime meridian), Weddell Sea, Kapp Norvegia, Joinville Island	2008, 2010	M. Hoppema	Germany
56°S,63°W - 62°S,58°W	Southern	Drake Passage (Punta Arenas, Chile <-> King George Island, West Antarctica)	2007, 2008 (yearly continuous)	Y.C. Kang	Korea
I09S	Southern Ocean	Fremantle – Antarctica	2012 (not yet funded)	B. Tilbrook	Australia
I09 S / Fremantle-Prydz Bay	Southern Ocean; Indian sector	Leaving from Fremantle of Australia, pass southern Indian Ocean, transactions investigation between 60°S and 69°S.	Yearly except for modification year.	Z. Dong	China

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Arctic					

Barrow Strait	Canadian Arctic Archipelago	Parry Channel 1/year (summer)	2003-	K. Azetsu-Scott	Canada
Hudson Bay and Strait (MERICA)	Canadian Arctic	Hudson Bay	2003-	K. Azetsu-Scott	Canada
Joint ArcticNet/ NABOS annual cruise (I/B Kapitan Dranitsyn)	Arctic	From Murmansk to Laptev Sea (following the Arctic shelfbreak)	2003, 2004, 2005, 2006, ongoing	L. Fortier	Canada
ArcticNet annual monitoring cruise (CCGS Amundsen)	N Atlantic and Arctic	From Quebec City to Labrador Sea, Baffin Bay (NOW), Northwest Passage (through M'Clintock Channel), Beaufort Sea (Mackenzie Shelf and Amundsen Gulf), and to Foxe Basin and Hudson Bay on the way back to Quebec City.	2003, 2004, 2005, 2006, ongoing	L. Fortier	Canada
75N	Nordic Seas	Iceland – Greenland.	2006, 2008	Truls Johannessen Are Olsen	Norway
RUSALCA	Arctic	Bering and Chukchi Seas	2004, 2008	Nick Bates	USA/Russia
Davis Strait	Atlantic (Baffin Bay)	From Baffin Island to Greenland 1/year (summer-fall)	2004-present	K. Azetsu-Scott	Canada
Scotian Shelf	NW Atlantic	Coastal monitoring program off Nova Scotia, Canada, 2-3/year 42/48N, 60/66W	2006-?	H. Thomas	Canada