

UK Ocean Acidification research programme

Components and participants: 9 September 2011



UK Ocean Acidification
Research Programme

For other programme information, see www.oceanacidification.org.uk

For updates to this document, contact Phil Williamson p.williamson@uea.ac.uk with cc to jlc@pml.ac.uk

1. Research awards

Consortium research grants/major awards

Title	Led by	Component research grants also at:
Observations and synthesis to establish variability and trends of oceanic pH	Andrew Watson (UEA)	Cefas, NOC Southampton, PML
Ocean acidification impacts on sea-surface biology, biogeochemistry and climate	Toby Tyrrell, (Southampton)	BAS, Essex*, MBA*, NHM, NOC Liverpool, NOC Southampton*, Oxford, PML, SAHFOS, SAMS, UEA
Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles	Steve Widdicombe (PML)	Aberdeen, Bangor, Cefas, Heriot-Watt, MBA, Plymouth, SAMS, Hull, Southampton, St Andrews.
Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species	Kevin Flynn (Swansea)	Exeter, PML, Strathclyde
Abrupt ocean acidification events [and their effects in the Earth's past]	Paul Pearson (Cardiff)	UCL, Southampton
Regional ecosystem and biogeochemical impacts of ocean acidification – a modelling study	Jerry Blackford (PML)	NOC Liverpool, NOC Southampton
CO ₂ - carbon cycle - climate interactions [pelagic CaCO ₃ production, export, ballasting & future changes]	Andy Ridgwell (Bristol)	Cardiff*
Ocean acidification carbonate chemistry facility	Eric Achterberg (Southampton)	

* includes studentship

Research studentships not part of consortia

Title	Location/supervising institution(s)
Responses of calcifying macroalgae to ocean acidification	Cardiff, NHM, Bristol
Assessing the effects of long-term ocean acidification at volcanic CO ₂ vents	Plymouth, MBA
Impact of ocean acidification on the air-sea exchange of trace gases	UEA, PML
Evolutionary responses to ocean acidification in free-living protists	Liverpool
A mechanistic field investigation of the physiological response of phytoplankton to past fluctuations in surface water carbonate chemistry	Oxford, Cardiff, (CEREGE)
Shell composition and microstructure variation with pH in time and space	BAS, Cambridge
Understanding the impact of recent ocean acidification on bio-calcification	Open Univ, NHM, Cambridge (AWI; Marine Biological Lab US)
The pelagic record of ocean acidification since the beginning of industrialisation	Bristol, UCL, (CEREGE; AWI)

2. Locations of programme participants (PIs, Co-Is and researchers)

Univ of Aberdeen: *Biol & Env Sci/Oceanlab, AB41 6AA*

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium) Martin Solan, Jasmin Godbold

Bangor Univ: *School of Biol Sci, LL57 2UW*

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Nia Whiteley

Univ of Bristol: *School of Geographical Sci, BS8 1SS:*

- “CO₂ - carbon cycle - climate interactions” [pelagic CaCO₃ production, export, ballasting & future changes] (leadership of consortium). Andy Ridgwell, Lauren Gregoire
- “The pelagic record of ocean acidification since the beginning of industrialisation” (research studentship) Daniela Schmidt, Maria Williams

School of Biol Sci, BS8 1UG:

- “Responses of calcifying macroalgae to ocean acidification” (co-supervision of studentship, led by Cardiff). Marian Yallop

British Antarctic Survey (BAS), *Cambridge CB3 0ET*

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Geraint Tarling, Peter Ward, Victoria Peck
- “Shell composition and microstructure variation with pH in time and space” (research studentship) Lloyd Peck, Thea Powell

Univ of Cambridge, *Dept of Earth Sciences, CB2 3EQ*

- Shell composition and microstructure variation with pH in time and space (co-supervision of studentship, led by BAS). Liz Harper

Cardiff Univ, School of Earth & Ocean Sci, CF10 3YE

- “Abrupt ocean acidification events” [and their effects in the Earth’s past] (leadership of consortium). Paul Pearson
- “CO₂ - carbon cycle - climate interactions” [pelagic CaCO₃ production, export, ballasting & future changes] (part of Ridgwell consortium). Stephen Barker, Jamie Wilson.
- “Responses of calcifying macroalgae to ocean acidification” (Studentship). Rupert Perkins, Stefan Kolle

Centre for Environment, Fisheries & Aquaculture Science (Cefas), Lowestoft NR33 0HT

- “Observations and synthesis to establish variability and trends of oceanic pH” (part of Watson consortium). David Pearce, Naomi Greenwood
- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Ruth Parker, Silvana Birchenough, John Pinnegar, John Aldridge

Univ of East Anglia (UEA), Env Sci, Norwich NR4 7TJ

- “Observations and synthesis to establish variability and trends of oceanic pH” (leadership of consortium). Andrew Watson, Dorothee Bakker, Ute Schuster
- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Dorothee Bakker
- “Impact of ocean acidification on the air-sea exchange of trace gases” (leadership and co-supervision of studentship). Peter Liss, Gill Malin, Roland von Glasow, Alison Webb

Univ of Essex, Dept of Biol Sci, Colchester, CO4 3SQ

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium, incl. studentship). Dave Suggett, Tracy Lawson, Laura Bretherton

Univ of Exeter, Dept of Biosciences, EX4 4QD

- “Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species” (part of Flynn consortium). Rod Wilson, Ceri Lewis

Heriot Watt Univ, Life Sciences, Edinburgh EH14 4AS

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Murray Roberts, Seb Hennige

Univ of Hull, Dept of Biol Sci, HU6 7RX

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Mark Osborn, Anne Cotton

Univ of Liverpool, School of Biol Sci, L69 3BX

- “Evolutionary responses to ocean acidification in free-living protists” (lead and co-supervision of studentship). Michael Brockhurst, David Montagnes, Philip Watts, Ewan Minter

Univ College London (UCL), Earth Sciences, WC1E 6BT

- “Abrupt ocean acidification events” [and their effects in the Earth’s past] (part of Pearson consortium). Paul Bown
- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” part of Tyrrell consortium). Jeremy Young.
- “The pelagic record of ocean acidification since the beginning of industrialisation” (co-supervision of studentship, led by Bristol). Paul Bown

Marine Biological Association (MBA), Plymouth PL1 2PB

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Nova Mieszkowska
- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium, incl. studentship; NE/H016996/1. Colin Brownlee, Declan Schroeder, Andrea Baker, Cecilia Balestreri

Natural History Museum (NHM), London SW7 5BD

- “Responses of calcifying macroalgae to ocean acidification” (co-supervision of studentship, led by Cardiff). Juliet Brodie

National Oceanography Centre (NOC) Liverpool L3 5DA:

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Jonathon Sharples, Matthew Palmer
- “Regional ecosystem and biogeochemical impacts of ocean acidification – a modelling study” (part of Blackford consortium). Jason Holt, Miguel Maqueda, Maria Luneva, Sarah Wakelin, Clare Postlethwaite

Southampton SO14 3ZH: [Univ of So’ton given separately]

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium, including studentship). Richard Sanders, Alex Poulton, Mike Zubkov, Polly Hill, Helen Smith,
- “Observations and synthesis to establish variability and trends of oceanic pH” (part of Watson consortium). David Hydes, Jon Campbell
- “Regional ecosystem and biogeochemical impacts of ocean acidification – a modelling study” (part of Blackford consortium). Tom Anderson, Katya Popova, Andrew Yool

Open Univ, Earth & Env Sci, Milton Keynes MK7 6AA

- “Abrupt ocean acidification events” [and their effects in the Earth’s past] (part of Pearson consortium). Philip Sexton
- “Understanding the impact of recent ocean acidification on bio-calcification” (research studentship) Pallavi Anand

Univ of Oxford, Dept of Earth Sci, OX1 3PR

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Ros Rickaby, Renee Lee.
- “A mechanistic field investigation of the physiological response of phytoplankton to past fluctuations in surface water carbonate chemistry” (research studentship) Ros Rickaby, Harry-Luke McClelland

Univ of Plymouth, School of Mar Sci & Eng, PL4 8AA

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). John Spicer, Piero Calosi, Sam Rastrick
- “Assessing the effects of long-term ocean acidification at volcanic CO₂ vents” (lead and co-supervision of studentship). Jason Hall-Spencer, Martin Attrill, Laura Pettit

Plymouth Marine Laboratory (PML), PL1 3DH

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (leadership of consortium). Steve Widdicombe, Jerry Blackford, Karen Tait, Helen Findlay, Thomas Vance, Yuri Artioli
- “Regional ecosystem and biogeochemical impacts of ocean acidification – a modelling study” (leadership of consortium). Jerry Blackford, Yuri Artioli, Momme Butenschon
- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Phil Nightingale, Darren Clark, Steve Archer, Andy Rees, Susan Kimmance, Frances Hopkins
- “Observations and synthesis to establish variability and trends of oceanic pH” (part of Watson consortium). Nick Hardman-Mountford
- “Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species” (part of Flynn consortium). Claudia Halsband-Lenk, Gorke Merino, Caroline Hattam, Nicola Beaumont, Stephen Mangi, Paul Somerfield, MelAusten
- “Impact of ocean acidification on the air-sea exchange of trace gases” (co-supervision of studentship at UEA). Stephen de Mora.

Scottish Association for Marine Science (SAMS), PA37 1QA

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of

- Widdicombe consortium). Mike Burrows, Henrik Stahl, Elanor Bell, Natalie Hicks
- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Ray Leakey

Sir Alister Hardy Foundation for Ocean Science (SAHFOS), Plymouth PL1 2PB

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (part of Tyrrell consortium). Peter Burkill, David Johns

Univ of Southampton, Ocean & Earth Sci, SO14 3ZH

- “Ocean acidification impacts on sea-surface biology, biogeochemistry and climate” (leadership of consortium). Toby Tyrrell, Eric Achterberg, Mark Moore, Bronwyn Wake, Jeremy Young, Shi Tingting, Mark Stinchcombe, Athena Drakou
- “Ocean acidification carbonate chemistry facility” (leadership of project). Eric Achterberg, Toby Tyrrell, Cynthia Dumousseaud.

- “Abrupt ocean acidification events” [and their effects in the Earth’s past] (part of Pearson consortium). Gavin Foster, Samantha Gibbs, Heiko Pälke
- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). Chris Hauton

Univ of St Andrews, School of Biology KY16 9TS

- “Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles” (part of Widdicombe consortium). David Paterson, Emma Defew,

Univ of Strathclyde, Maths & Stats, Glasgow G1 1XH

- “Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species” (part of Flynn consortium). Doug Speirs

Swansea Univ, School of Env & Society, SA2 8PP

- “Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species” (leadership of consortium). Kevin Flynn, Robin Shields, Awantha Dissayake

3. Programme participants grouped by award/activity

Identified researchers are supported by UKOA for >10% of their time. Research students, partners and collaborators (national and international) funded by other means are not included here. For email addresses, replace “-at-“ by @.

3.1 Consortium grants and major project awards

“Observations and synthesis to establish variability and trends of oceanic pH”

Watson, Andrew	UEA	a.watson-at-uea.ac.uk ,	Consortium lead PI
Bakker, Dorothea	UEA	d.bakker-at-uea.ac.uk ,	Co-I
Campbell, Jon	NOC Southampton	joc-at-noc.soton.ac.uk	Researcher
Hardman-Mountford, Nick	PML	nhmo-at-pml.ac.uk ,	PI
Hydes, David	NOC Southampton	d.j.hydes-at-noc.soton.ac.uk ,	PI
Kitidis, Vassilis	PML	vak-at-pml.ac.uk	Researcher
Pearce, David	Cefas	david.pearce-at-cefas.co.uk ,	PI
Schuster, Ute	UEA	u.schuster-at-uea.ac.uk ,	Co-I

“Ocean acidification impacts on sea-surface biology, biogeochemistry and climate”

Tyrrell, Toby	Southampton	t.tyrrell-at-noc.soton.ac.uk ,	Consortium lead PI
Achterberg, Eric	Southampton	eric-at-noc.soton.ac.uk	Co-I
Archer, Steve	PML	stda-at-pml.ac.uk	Co-I
Baker, Andrea	MBA	ancba-at-mba.ac.uk	Researcher
Bakker, Dorothea	UEA	d.bakker-at-uea.ac.uk	PI
Balestreri, Cecilia	MBA/Oxford	cecilia.balestreri-at-gmail.com	Research student
Bretherton, Laura	Essex	lmjbre-at-essex.ac.uk	Research student
Brownlee, Colin	MBA	cbr-at-mba.ac.uk	PI; Co-supervisor
Burkill, Peter	SAHFOS	phb-at-sahfos.ac.uk	PI
Clark, Darren	PML	drcl-at-pml.ac.uk	Co-I
Drakou, Athena	Southampton	a.drakou-at-noc.soton.ac.uk	Consortium coordinator
Hill, Polly	NOC Southampton	polly.hill-at-noc.soton.ac.uk	Researcher
Hopkins, Frances	PML	fhop-at-pml.ac.uk ;	Researcher
Johns, David	SAHFOS	djoh-at-sahfos.ac.uk	Co-I
Kimmance, Susan	PML	sukim-at-pml.ac.uk	Co-I
Lawson, Tracy	Essex	tlawson-at-essex.ac.uk ;	Co-I; Co-Supervisor
Leakey, Ray	SAMS	rl-at-sams.ac.uk	PI
Lee, Renee	Oxford	renee.lee-at-earth.ox.ac.uk	Researcher
Moore, Mark	Southampton	cmm297-at-noc.soton.ac.uk	Co-I
Nightingale, Phil	PML	pdn-at-pml.ac.uk	PI
Palmer, Matthew	NOC Liverpool	rolm-at-pol.ac.uk	Co-I
Peck, Victoria Louise	BAS	vlp-at-bas.ac.uk ;	Researcher Co-I
Poulton, Alex	NOC Southampton	alex.poulton-at-noc.soton.ac.uk	Co-I; Co-supervisor
Rees, Andy	PML	apre-at-pml.ac.uk	Co-I
Richier, Sophie	Southampton	s.richier-at-noc.soton.ac.uk	Researcher
Rickaby, Ros	Oxford	rosr-at-earth.ox.ac.uk	PI
Sanders, Richard	NOC Southampton	rics-at-noc.soton.ac.uk	PI; Supervisor

Schroeder, Declan	MBA	dsch-at-mba.ac.uk	Co-I; Supervisor
Sharples, Jonathan	NOC Liverpool	j.sharples-at-pol.ac.uk	PI
Shi, Tingting	Southampton	tts1e09-at-noc.soton.ac.uk	Researcher
Smith, Helen	NOC Southampton	helen.smith-at-noc.soton.ac.uk	Research Student
Stinchcombe, Mark	Southampton	mcs102-at-noc.soton.ac.uk	Researcher
Suggett, David	Essex	dsuggett-at-essex.ac.uk	PI; Supervisor
Tarling, Geraint	BAS	gant-at-bas.ac.uk ;	PI
Wake, Bronwyn	Southampton	bronwyn.wake-at-noc.soton.ac.uk	Researcher
Ward, Peter	BAS	pwar-at-bas.ac.uk ;	Co-I
Young, Jeremy	UCL	jeremy.young-at-ucl.ac.uk	Researcher
Zubkov, Mike	NOC Southampton	mvz-at-noc.soton.ac.uk	Co-I

“Impacts of ocean acidification on key benthic ecosystems, communities, habitats, species and life cycles”

Widdicombe, Steve	PML	swi-at-pml.ac.uk ,	Consortium lead PI
Aldridge, John	Cefas	john.aldridge-at-cefas.co.uk ;	Co-I
Artioli, Yuri	PML	yuti-at-pml.ac.uk ;	Co-I; Researcher
Bell, Eleanor	SAMS	elleanor.bell-at-sams.ac.uk ;	Co-I
Birchenough, Silvana	Cefas	silvana.birchenough-at-cefas.co.uk	Co-I
Blackford, Jerry	PML	icb-at-pml.ac.uk	Co-I
Burrows, Mike	SAMS	mtb-at-sams.ac.uk	Co-I
Calosi, Piero	Plymouth	piero.calosi-at-plymouth.ac.uk ;	Co-I
Cotton, Anne	Hull	a.cotton-at-hull.ac.uk	Researcher
Defew, Emma	St Andrews	ecd2-at-st-and.ac.uk ;	Co-I; Researcher
Findlay, Helen	PML	hefi-at-pml.ac.uk ;	Co-I; Researcher
Godbold, Jasmin	Aberdeen	j.a.godbold-at-abdn.ac.uk ;	Researcher
Hauton, Chris	Southampton	ch10-at-noc.soton.ac.uk ;	PI
Hennige, Sebastian	Heriot-Watt	s.hennige-at-hw.ac.uk	Researcher
Hicks, Natalie	SAMS	natalie.hicks-at-sams.ac.uk	Researcher
Mieszkowska, Nova	MBA	nova-at-mba.ac.uk	PI
Osborn, Mark	Hull	a.m.osborn-at-hull.ac.uk ;	PI
Parker, Ruth	Cefas	Ruth.parker-at-cefas.co.uk	PI
Paterson, David	St Andrews	dp1-at-st-andrews.ac.uk ;	PI
Pinnegar, John	Cefas	john.pinnegar-at-cefas.co.uk ;	Co-I
Rastrick, Sam	Plymouth/PML	sras-at-pml.ac.uk	Researcher
Roberts, Murray	Heriot Watt	j.m.roberts-at-hw.ac.uk ;	PI
Solan, Martin	Aberdeen	m.solan-at-abdn.ac.uk ;	PI
Spicer, John	Plymouth	jispicer-at-plymouth.ac.uk ;	PI
Stahl, Henrik	SAMS	henrik.stahl-at-sams.ac.uk ;	Co-I
Tait, Karen	PML	ktait-at-pml.ac.uk ;	Co-I
Vance, Thomas	PML	thva-at-pml.ac.uk ;	Co-I; Researcher
Whiteley, Nia	Bangor	n.m.whiteley-at-bangor.ac.uk ,	PI

“Improved understanding of population, community and ecosystem impacts of ocean acidification for commercially important species”

Flynn, Kevin	Swansea	k.j.flynn-at-swansea.ac.uk	Consortium lead PI
Austen, Melanie	PML	mcva-at-pml.ac.uk	Co-I
Beaumont, Nicola	PML	nijb-at-pml.ac.uk	Co-I
Dissanayake, Awantha	Swansea	a.dissanayake-at-swansea.ac.uk	Researcher
Halsband-Lenk, Claudia	PML	clau1-at-pml.ac.uk	PI
Hattam, Caroline	PML	caro4-at-pml.ac.uk	Co-I
Lewis, Ceri	Exeter	c.n.lewis-at-exeter.ac.uk	Co-I
Mangi, Stephen	PML	stcma-at-pml.ac.uk	Co-I
Merino, Gorka	PML	gmerin-at-pml.ac.uk	Co-I
Shields, Robin	Swansea	r.j.shields-at-swansea.ac.uk	Co-I
Somerfield, Paul	PML	piso-at-pml.ac.uk	Co-I
Speirs, Doug	Strathclyde	d.c.speirs-at-strath.ac.uk	PI
Wilson, Rod	Exeter	r.w.wilson-at-exeter.ac.uk	PI

“Abrupt ocean acidification events” [and their effects in the Earth’s past]

Pearson, Paul	Cardiff	pearsonp-at-cardiff.ac.uk ;	Consortium lead PI
Aze, Tracey	Cardiff	azetl-at-cardiff.ac.uk	Researcher
Bown, Paul	UCL	p.bown-at-ucl.ac.uk	PI
Foster, Gavin	Southampton	gavin.foster-at-noc.soton.ac.uk	PI
Gibbs, Samantha	Southampton	samantha.gibbs-at-noc.soton.ac.uk	Co-I
Gutjhar, Marcus	Southampton	m.gutjahr-at-soton.ac.uk	Researcher
Pälike, Heiko	Southampton	heiko-at-noc.soton.ac.uk	Co-I
Sexton, Philip	Open University	p.f.sexton-at-open.ac.uk	PI

“Regional ecosystem and biogeochemical impacts of ocean acidification – a modelling study”

Blackford, Jerry	PML	icb-at-pml.ac.uk ;	Consortium lead PI
Anderson, Tom	NOC Southampton	tra-at-noc.soton.ac.uk ;	PI
Artioli, Yuri	PML	yuti-at-pml.ac.uk ;	Researcher
Butenschon, Momme	PML	momm-at-pml.ac.uk	Researcher
Holt, Jason	NOC Liverpool	jholt-at-pol.ac.uk ;	PI
Luneva, Maria	NOC Liverpool	mluneva-at-gmail.com	Researcher
Maqueda, Miguel	NOC Liverpool	mamm-at-pol.ac.uk ;	Co-I
Popova, Ekaterina	NOC Southampton	ekp-at-noc.soton.ac.uk ;	Co-I
Postlethwaite, Clare	NOC Liverpool	cfpo-at-pol.ac.uk ;	Researcher
Wakelin, Sarah	NOC Liverpool	slwa-at-pol.ac.uk ;	Researcher
Yool, Andrew	NOC Southampton	axy-at-noc.soton.ac.uk ;	Researcher

“CO₂ - carbon cycle - climate interactions” [pelagic CaCO₃ production, export, ballasting & future changes]

Ridgwell, Andy	Bristol	andy.ridgwell-at-bristol.ac.uk	Consortium lead PI
Barker, Stephen	Cardiff	barkers3-at-cf.ac.uk	PI; Supervisor
Gregoire, Lauren	Bristol	lauren.gregoire-at-bristol.ac.uk	Researcher
Wilson, Jamie	Cardiff	Wilson.jamied-at-gmail.com	Research student

“Ocean acidification carbonate chemistry facility”

Achterberg, Eric	Southampton	eric-at-noc.soton.ac.uk ;	Project PI
Tyrrell, Toby	Southampton	t.tyrrell-at-noc.soton.ac.uk ;	Co-I
Dumousseaud, Cynthia	Southampton	cd6-at-noc.soton.ac.uk	Researcher

3.2 Research studentships (not part of consortia)

“Responses of calcifying macroalgae to ocean acidification”

Perkins, Rupert	Cardiff	perkinsr-at-cf.ac.uk	Supervisor
Brodie, Juliet	NHM	j.brodie-at-nhm.ac.uk ;	Co-supervisor
Yallop, Marian	Bristol	marian.yallop-at-bristol.ac.uk ;	Co-supervisor
Kolle, Stefan	Cardiff/NHM	s.kolle-at-nhm.ac.uk	Research student

“Assessing the effects of long-term ocean acidification at volcanic CO₂ vents”

Hall-Spencer, Jason	Plymouth	jhall-spencer-at-plymouth.ac.uk	Supervisor
Attrill, Martin	Plymouth	m.attrill-at-plymouth.ac.uk ;	Co-supervisor
Brownlee, Colin	MBA	cbr-at-mba.ac.uk ;	Co-supervisor
Pettit, Laura	Plymouth	laura.pettit-at-plymouth.ac.uk	Research student

“Impact of ocean acidification on the air-sea exchange of trace gases”

Liss, Peter	UEA	p.liss-at-uea.ac.uk ;	Supervisor
De Mora, Stephen	PML	sjdm-at-pml.ac.uk ;	Co-supervisor
Malin, Gill	UEA	g.malin-at-uea.ac.uk ;	Co-supervisor
Von Glasow, Roland	UEA	r.von-glasow-at-uea.ac.uk	Co-supervisor
Webb, Alison	UEA	alison.l.webb-at-uea.ac.uk	Research student

“Evolutionary responses to ocean acidification in free-living protists”

Brockhurst, Michael	Liverpool	michael.brockhurst-at-liverpool.ac.uk	Supervisor
Montagnes, David	Liverpool	dmontag-at-liverpool.ac.uk ;	Co-supervisor
Watts, Phillip	Liverpool	p.c.watts-at-liverpool.ac.uk	Co-supervisor
Minter, Ewan	Liverpool	e.minter-at-student.liv.ac.uk	Research student

“A mechanistic field investigation of the physiological response of phytoplankton to past fluctuations in surface water carbonate chemistry”

Rickarby, Ros	Oxford	rosr-at-earth.ox.ac.uk	Supervisor
McClelland, Harry-Luke	Oxford	Starts Oct 2011	Research student

“Shell composition and microstructure variation with pH in time and space”

Peck, Lloyd	BAS	l.peck-at-bas.ac.uk	Supervisor
Harper, Liz	Cambridge	emh21-at-cam.ac.uk	Co-supervisor
Powell, Thea	BAS	Starts 1 Oct 2011	Research student

“Understanding the impact of recent ocean acidification on bio-calcification”

Anand, Pavalli	Open University	Pallavi.anand-at-open.ac.uk	Supervisor
Salmon, Kate	Open University	Starts Oct 2011	Research student

“The pelagic record of ocean acidification since the beginning of industrialisation”

Schmidt, Daniela	Bristol	d.schmidt-at-bristol.ac.uk	Supervisor
Andersen, Morten	Bristol	morten.andersen-at-bristol.ac.uk	Co-supervisor
Bown, Paul	UCL	p.bown-at-ucl.ac.uk	Co-supervisor
Williams, Maria	Bristol	Starts 3 Oct 2011	Research student

3.3 Programme management

PEB, Programme Executive Board; PAG, Programme Advisory Group

Webb, Mike	NERC	mweb-at-nerc.ac.uk ;	PEB Chair
Elderfield, Harry	Cambridge	he101-at-cam.ac.uk ;	PEB; PAG Chair
Meah, Nafees	DECC	nafees.Meah-at-decc.gsi.gov.uk ;	PEB
Montgomery, Caron	Defra	caron.montgomery-at-defra.gsi.gov.uk	PEB
Batchelor, Jessica	NERC	jetc-at-nerc.ac.uk ;	UKOA Administrator
Crocker, Julia	PML	jlc-at-pml.ac.uk	Coordination support
Davidson, Kelly-Marie	PML	kdav-at-pml.ac.uk	Coordination support
Turley, Carol	PML	ct-at-pml.ac.uk ;	KE Coordinator
Williamson, Phil	UEA	p.williamson-at-uea.ac.uk ;	Science Coordinator
Achterberg, Eric	Southampton	eric-at-noc.soton.ac.uk	PAG
Cook, Jolene	DECC	jolene.cook-at-decc.gsi.gov.uk ;	PAG
Gattuso, Jean-Pierre	CNRS Villefranche	gattuso-at-obs-vlfr.fr	PAG
Halloran, Paul	MetOffice	paul.halloran-at-metoffice.gov.uk	PAG
Hatton, Angela	SAMS	angela.hatton-at-sams.ac.uk ,	PAG
Heath, Mike	Strathclyde	m.heath-at-strath.ac.uk ,	PAG
Raven, John	Dundee	i.a.raven-at-dundee.ac.uk ,	PAG
Riebesell, Ulf	IFM-Geomar	uriebesell-at-ifm-geomar.de ,	PAG
Widdicombe, Steve	PML	swi-at-pml.ac.uk	PAG
Yool, Andrew	NOC Southampton	axy-at-noc.soton.ac.uk	PAG
Thomas, Rob	BODC	room-at-bodc.ac.uk	UKOA Data Manager

4. Programme participants: alphabetic list (includes management)

1	Achterberg, Eric	Southampton	eric-at-noc.soton.ac.uk ;	Project PI; Co-I; PAG
2	Aldridge, John	Cefas	john.aldrige-at-cefas.co.uk ;	Co-I
3	Anand, Pallavi	Open Univ	pallavi.anand-at-open.ac.uk	Supervisor
4	Andersen, Morten	Bristol	morten.andersen-at-bristol.ac.uk	Co-supervisor
5	Anderson, Tom	NOC Southampton	tra-at-noc.soton.ac.uk ;	PI
6	Archer, Steve	PML	stda-at-pml.ac.uk ;	Co-I
7	Artioli, Yuri	PML	yuti-at-pml.ac.uk ;	Co-I; Researcher
8	Attrill, Martin	Plymouth	m.attrill-at-plymouth.ac.uk ;	Co-supervisor
9	Austen, Melanie	PML	mcva-at-pml.ac.uk	Co-I
10	Aze, Tracey	Cardiff	azetl-at-cardiff.ac.uk	researcher
11	Baker, Andrea	MBA	ancba-at-mba.ac.uk ,	Researcher
12	Bakker, Dorothea	UEA	d.bakker-at-uea.ac.uk ,	PI; Co-I
13	Balestreri, Cecilia	MBA	cecilia.balestreri-at-gmail.com	Research student
14	Barker, Stephen	Cardiff	barkers3-at-cf.ac.uk	PI; Supervisor
15	Batchelor, Jessica	NERC	jetc-at-nerc.ac.uk ;	UKOARP Administrator
16	Beaumont, Nicola	PML	nijb-at-pml.ac.uk	Co-I
17	Bell, Elnor	SAMS	elleanor.bell-at-sams.ac.uk ;	Co-I
18	Birchenough, Silvana	Cefas	silvana.birchenough-at-cefas.co.uk	Co-I
19	Blackford, Jerry	PML	jcb-at-pml.ac.uk ;	Consortium PI; Co-I
20	Bown, Paul	UCL	p.bown-at-ucl.ac.uk	PI, Co-supervisor
21	Bretherton, Laura	Essex	lmjbre-at-essex.ac.uk	Research Student
22	Brockhurst, Michael	Liverpool	michael.brockhurst-at-liverpool.ac.uk	Supervisor
23	Brodie, Juliet	NHM	j.brodie-at-nhm.ac.uk ;	Co-supervisor
24	Brownlee, Colin	MBA	cbr-at-mba.ac.uk ,	PI; Co-supervisor
25	Burkill, Peter	SAHFOS	phb-at-sahfos.ac.uk ,	PI
26	Burrows, Mike	SAMS	mtb-at-sams.ac.uk	Co-I
27	Butenschon, Momme	PML	momm-at-pml.ac.uk	Researcher

28	Calosi, Piero	Plymouth	piero.calosi-at-plymouth.ac.uk ;	Co-I
29	Campbell, Jon	NOC Southampton	joc-at-noc.soton.ac.uk ;	Researcher
30	Clark, Darren	PML	drcl-at-pml.ac.uk ;	Co-I
31	Cook, Jolene	DECC	Jolene.cook-at-decc.gsi.gov.uk ;	Programme Manager
32	Crocker, Julia	PML	jlc-at-pml.ac.uk	Coordination support
33	Davidson, Kelly-Marie	PML	kdav-at-pml.ac.uk	Coordination support
34	De Mora, Stephen	PML	sjdm-at-pml.ac.uk ;	Co-supervisor
35	Defew, Emma	St Andrews	ecd2-at-st-and.ac.uk ;	Co-I; Researcher
36	Dissanayake, Awantha	Swansea	a.dissanayake-at-swansea.ac.uk	Researcher
37	Drakou, Athena	Southampton	a.drakou-at-noc.soton.ac.uk	Consortium coordinator
38	Dumousseaud, Cynthia	Southampton	cd6-at-noc.soton.ac.uk	Researcher
39	Elderfield, Harry	Cambridge	he101-at-cam.ac.uk ;	PEB; PAG Chair
40	Findlay, Helen	PML	hefi-at-pml.ac.uk ;	Co-I; Researcher
41	Flynn, Kevin	Swansea	k.j.flynn-at-swansea.ac.uk	Consortium PI
42	Foster, Gavin	Southampton	gavin.foster-at-noc.soton.ac.uk	PI
43	Gattuso, Jean-Pierre	CNRS Villefranche	gattuso-at-obs-vlfr.fr	PAG
44	Gibbs, Samantha	Southampton	samantha.gibbs-at-noc.soton.ac.uk	Co-I
45	Godbold, Jasmin	Aberdeen	j.a.godbold-at-abdn.ac.uk ;	Researcher
46	Gutjahr, Marcus	Southampton	m.gutjahr-at-soton.ac.uk	Researcher
47	Halloran, Paul	MetOffice	paul.halloran-at-metoffice.gov.uk	PAG
48	Hall-Spencer, Jason	Plymouth	jhall-spencer-at-plymouth.ac.uk	Supervisor
49	Halsband-Lenk, Claudia	PML	clau1-at-pml.ac.uk	PI
50	Harper, Liz	Cambridge	emh21-at-cam.ac.uk	Co-supervisor
51	Hardman-Mountford, Nick	PML	nhmo-at-pml.ac.uk ,	PI
52	Hattam, Caroline	PML	caro4-at-pml.ac.uk	Co-I
53	Hatton, Angela	SAMS	angela.hatton-at-sams.ac.uk	PAG
54	Hauton, Chris	Southampton	ch10-at-noc.soton.ac.uk ;	PI
55	Heath, Mike	Strathclyde	m.heath-at-strath.ac.uk	PAG
56	Hennige, Sebastian	Heriot Watt	a.hennige-at-hw.ac.uk	Researcher
57	Hicks, Natalie	SAMS	natalie.hicks-at-sams.ac.uk	Researcher
58	Hill, Polly	NOC Southampton	polly.hill-at-noc.soton.ac.uk	Researcher
59	Holt, Jason	NOC Liverpool	jholt-at-pol.ac.uk ;	PI
60	Hopkins, Frances	PML	fhop-at-pml.ac.uk ;	Researcher
61	Hydes, David	NOC Southampton	d.j.hydes-at-noc.soton.ac.uk ,	PI
62	Johns, David	SAHFOS	djoh-at-sahfos.ac.uk ;	Co-I
63	Kitidis, Vassilis	PML	vak-at-pml.ac.uk	
64	Kimmance, Susan	PML	sukim-at-pml.ac.uk ;	Co-I
66	Lawson, Tracy	Essex	tlawson-at-essex.ac.uk ;	Co-I; Co-Supervisor
65	Leakey, Ray	SAMS	rjl-at-sams.ac.uk ;	PI
67	Lee, Renee	Oxford	renee.lee-at-earth.ox.ac.uk ;	Researcher
68	Lewis, Ceri	Exeter	c.n.lewis-at-exeter.ac.uk	Co-I
69	Liss, Peter	UEA	p.liss-at-uea.ac.uk ;	Supervisor
70	Luneva, Maria	NOC Liverpool	mluneva-at-gmail.com	Researcher
71	Malin, Gill	UEA	g.malin-at-uea.ac.uk ;	Co-supervisor
72	Mangi, Stephen	PML	stcma-at-pml.ac.uk	Co-I
73	Maqueda, Miguel	NOC Liverpool	mamm-at-pol.ac.uk ;	Co-I
74	McClelland, Harry-Luke	Oxford	<i>Starts Oct 2011</i>	Research student
75	Meah, Nafees	DECC	nafees.meah-at-decc.gsi.gov.uk ;	PEB (for DECC)
76	Merino, Gorka	PML	gmerin-at-pml.ac.uk	Co-I
77	Mieszowska, Nova	MBA	nova-at-mba.ac.uk	PI
78	Minter, Ewan	Liverpool	e.minter-at-student.liv.ac.uk ;	Research student
79	Montagnes, David	Liverpool	dmontag-at-liverpool.ac.uk ;	Co-supervisor
80	Montgomery, Caron	Defra	caron.montgomery-at-defra.gsi.gov.uk	PEB (for Defra)
81	Moore, Mark	Southampton	cmm297-at-noc.soton.ac.uk ;	Co-I
82	Nightingale, Phil	PML	pdn-at-pml.ac.uk ;	PI
83	Osborn, Mark	Hull	a.m.osborn-at-hull.ac.uk ;	PI
84	Pälike, Heiko	Southampton	heiko-at-noc.soton.ac.uk	Co-I
85	Palmer, Matthew	NOC Liverpool	rolm-at-pol.ac.uk ;	Co-I
86	Parker, Ruth	Cefas	ruth.parker-at-cefas.co.uk	PI
87	Paterson, David	St Andrews	dp1-at-st-andrews.ac.uk ;	PI
88	Pearce, David	Cefas	david.pearce-at-cefas.co.uk ,	PI
89	Pearson, Paul	Cardiff	pearsonp-at-cardiff.ac.uk ;	Consortium PI
90	Peck, Lloyd	BAS	l.peck-at-bas.ac.uk	Supervisor
91	Peck, Victoria	BAS	vlp-at-bas.ac.uk ;	Co-I; Researcher
92	Perkins, Rupert	Cardiff	perkinsr-at-cf.ac.uk	Supervisor
93	Pettit, Laura	Plymouth	laurachelpettit-at-hotmail.co.uk ;	Research student
94	Pinnegar, John	Cefas	john.pinnegar-at-cefas.co.uk ;	Co-I
95	Popova, Ekaterina	NOC Southampton	ekp-at-noc.soton.ac.uk ;	Co-I
96	Postlethwaite, Clare	NOC Liverpool	cfpo-at-pol.ac.uk ;	Researcher
97	Poulton, Alex	NOC Southampton	alex.poulton-at-noc.soton.ac.uk ;	Co-I; Co-supervisor
98	Powell, Thea	BAS	<i>Starts Oct 2011</i>	Research student
99	Rastrick, Sam	Plymouth/PML	sras-at-pml.ac.uk	Researcher
100	Raven, John	Dundee	j.a.raven-at-dundee.ac.uk	PAG
101	Rees, Andy	PML	apre-at-pml.ac.uk ;	Co-I

102	Richier, Sophie	Southampton	s.richier-at-noc.soton.ac.uk	Researcher
103	Rickaby, Ros	Oxford	rosr-at-earth.ox.ac.uk ;	PI
104	Ridgwell, Andy	Bristol	andy.ridgwell-at-bristol.ac.uk	Consortium PI
105	Riebesell, Ulf	IFM-Geomar	uriebesell-at-ifm-geomar.de	PAG
106	Roberts, Murray	Heriot Watt	j.m.roberts-at-hw.ac.uk ;	PI
107	Salmon, Kate	Open University	<i>Starts Oct 2011</i>	Research student
108	Sanders, Richard	NOC Southampton	rics-at-noc.soton.ac.uk ;	PI; Supervisor
109	Schroeder, Declan	MBA	dsch-at-mba.ac.uk ,	Co-I; Supervisor
110	Schuster, Ute	UEA	u.schuster-at-uea.ac.uk ,	Co-I
111	Schmidt, Daniela	Bristol	d.schmidt-at-bristol.ac.uk	
112	Sexton, Philip	Open University	p.f.sexton-at-open.ac.uk	Co-I
113	Sharples, Jonathan	NOC Liverpool	j.sharples-at-pol.ac.uk ;	PI
114	Shi, Tingting	Southampton	tts1e09-at-noc.soton.ac.uk	researcher
115	Shields, Robin	Swansea	r.j.shields-at-swansea.ac.uk	Co-I
116	Smith, Helen	NOC Southampton	helen.smith-at-noc.soton.ac.uk	Research Student
117	Solan, Martin	Aberdeen	m.solan-at-abdn.ac.uk ;	PI
118	Somerfield, Paul	PML	pjso-at-pml.ac.uk	Co-I
119	Speirs, Doug	Strathclyde	d.c.speirs-at-strath.ac.uk	PI
120	Spicer, John	Plymouth	jispicer-at-plymouth.ac.uk ;	PI
121	Stahl, Henrik	SAMS	henrik.stahl-at-sams.ac.uk ;	Co-I
122	Stinchcombe, Mark	Southampton	mcs102-at-noc.soton.ac.uk	researcher
123	Suggett, David	Essex	dsuggett-at-essex.ac.uk ;	PI; Supervisor
124	Tait, Karen	PML	ktait-at-pml.ac.uk ;	Co-I
125	Tarling, Geraint	BAS	gant-at-bas.ac.uk ;	PI
126	Thomas, Rob	BODC	room-at-bodc.ac.uk	UKOA Data Manager
127	Turley, Carol	PML	ct-at-pml.ac.uk ;	KE Coordinator
128	Tyrrell, Toby	Southampton	t.tyrrell-at-noc.soton.ac.uk ,	Consortium PI; Co-I
129	Vance, Thomas	PML	thva-at-pml.ac.uk ;	Co-I; Researcher
130	Von Glasow, Roland	UEA	r.von-glasow-at-uea.ac.uk	Co-supervisor
131	Wake, Bronwyn	Southampton	bronwyn.wake-at-gmail.com ;	Researcher
132	Wakelin, Sarah	NOC Liverpool	slwa-at-pol.ac.uk ;	Researcher
133	Ward, Peter	BAS	pwar-at-bas.ac.uk ;	Co-I
134	Watson, Andrew	UEA	a.watson-at-uea.ac.uk ,	Consortium PI
135	Watts, Phillip	Liverpool	p.c.watts-at-liverpool.ac.uk	Co-supervisor
136	Webb, Alison	UEA	alison.l.webb-at-uea.ac.uk	Research student
137	Webb, Mike	NERC	mweb-at-nerc.ac.uk ;	PEB (for NERC)
138	Whiteley, Nia	Bangor	n.m.whiteley-at-bangor.ac.uk ,	PI
139	Widdicombe, Steve	PML	swi-at-pml.ac.uk ,	Consortium PI; PAG
140	Williams, Maria	Bristol	<i>Starts Oct 2011</i>	Research student
141	Williamson, Phil	UEA	p.williamson-at-uea.ac.uk ;	Science Coordinator
142	Wilson, Rod	Exeter	r.w.wilson-at-exeter.ac.uk	PI
143	Yallop, Marian	Bristol	marian.yallop-at-bristol.ac.uk ;	Co-supervisor
144	Yool, Andrew	NOC Southampton	axy-at-noc.soton.ac.uk ;	Researcher; PAG
145	Young, Jeremy	UCL	jeremy.young-at-ucl.ac.uk ;	Researcher
146	Zubkov, Mike	NOC Southampton	mvz-at-noc.soton.ac.uk ,	Co-I