



# FULL CONFERENCE PROGRAMME



<b>Sunday 26 June</b>	<b>Sherwell Conference Centre Foyer</b>
<b>17:00 – 19:00</b>	<i>Pre-conference registration and drinks</i>

<b>Monday 27 June</b>	<b>Lower Lecture Theatre</b>	<b>Upper Lecture Theatre</b>	
09:00 – 09:30		<b>Opening remarks</b> Richard Thompson, 9 <sup>th</sup> ITRS Organiser <b>Welcome to Plymouth</b> Martin Attrill, Director of the Marine Institute, University of Plymouth <b>Housekeeping</b> Richard Thompson, 9 <sup>th</sup> ITRS Organiser <b>Introduction to Temperate Reefs and Ecological Theory</b> Steve Hawkins, 9 <sup>th</sup> ITRS Organiser	
		<b>Temperate Reefs &amp; Ecological Theory I (Chair: Christopher McQuaid)</b> Session sponsored by the British Ecological Society	
09:30 – 10:00		<b>Keynote</b> - Two-way interactions of ecological theory with temperate reefs: collision course, dashed hopes, or fruitful symbiosis?	Peter Fairweather
10:00 – 10:30		<b>Keynote</b> - Linking patterns and processes across scales: the application of scale-transition theory to algal dynamics on rocky shores.	Lisandro Benedetti-Cecchi
10:30 – 11:00	<i>Break – Tea and coffee available in the foyer</i>		

Monday 27 June	Lower Lecture Theatre		Upper Lecture Theatre	
			<b>Temperate Reefs &amp; Ecological Theory II continued (Chair: Christopher McQuaid)</b> Session sponsored by the British Ecological Society	
11:00 – 11:15			Body mass-abundance relationships are robust to cascading effects in marine food webs.	Eoin O’Gorman
11:15 – 11:30			Patterns of algal turf following disturbance of canopy assemblages: the interactive effects of multiple processes varying in spatial autocorrelation.	Laura Tamburello
11:30 – 11:45			Physical forcing and generality in benthic systems.	Christopher McQuaid
11:45 – 12:00			Environmental heterogeneity affects mechanisms contributing to stability in rocky shore ecosystems.	Nelson Valdivia
12:00 – 12:15			Fractal analysis of foraging behaviour reveals optimal food concentrations and food-sex trades-offs in the intertidal gastropod <i>Littorina littorea</i> .	Laurent Seuront
12:15 – 12:30			Revisiting Connell: Competition is not always the cause for barnacle zonation.	Tamar Guy-Haim
12:30 – 13:30	<b>Lunch Break – buffet lunch available in the foyer</b>			
	<b>Temperate Reefs &amp; Ecological Theory III (Chair: Fabio Bulleri)</b> Session sponsored by the British Ecological Society		<b>Larval Ecology (Chair: Luis Giménez)</b>	
13:30 – 13:45	The role of broad scale factors in determining the spatial patterns of a dominant intertidal predator.	Ronaldo Christofoletti	Vertical structure of very-nearshore temperate fish larval assemblages sampled with tow nets and light traps.	Rita Borges
13:45 – 14:00	Facilitation in marine environments: switches in species interactions along gradients of consumer pressure and physical stress.	Fabio Bulleri	Population dynamics of the World’s smallest viviparous sea star, on temperate intertidal platforms in Southern Australia.	Lana Roediger
14:00 – 14:15	Barnacle lotteries and competitive equivalence: the roles of variable recruitment and interference on species coexistence.	Jenna Shinen	Larval supply and recruitment of barnacles in Brazilian Upwelling System: a result of the influence of two oceanographic contrasting conditions.	Ana Carolina Mazzuco
14:15 – 14:30	Rocky intertidal metacommunity structure: evaluating ecological drift and local interactions as key process.	Andres Caro	An integrative approach to model recruitment dynamics in barnacles.	Luis Giménez
14:30 – 14:45	The space-time continuum of biodiversity following non-random species loss in intertidal algal communities.	Stacie Lilley	Do barnacles have colour preferences in their choice of settlement substratum?	Simone Dürr

Monday 27 June	Lower Lecture Theatre		Upper Lecture Theatre	
	<b>Temperate Reefs &amp; Ecological Theory III continued (Chair: Fabio Bulleri)</b> Session sponsored by the British Ecological Society		<b>Larval Ecology continued (Chair: Luis Giménez)</b>	
14:45 – 15:00	Using the past to predict the future as a test for alternative states.	Peter Petraitis	Bacterial quorum sensing signal molecules induce settlement of <i>Balanus improvisus</i> cyprids.	Karen Tait
15:00 – 15:15	Variability in rates of predation: doing the same experiment in 1996 and 2010.	Steve Dudgeon	Genetic tests for the dispersal of barnacles across the south eastern Australian biogeographic barrier.	David Ayre
15:15 – 15:30	Functional roles along a tidal gradient: effects of algal functional diversity and environmental stress on community structure and dynamics in southern New Zealand intertidal assemblages.	Tommaso Alestra	Multiscale population genetic structure of the stalked barnacle <i>Pollicipes pollicipes</i> .	Joana Fernandes
15:30 – 16:00	<b>Break – Tea and coffee available in the foyer</b>			
			<b>Temperate Reefs &amp; Ecological Theory IV (Chair: Lisandro Benedetti-Cecchi)</b> Session sponsored by the British Ecological Society	
16:00 – 16:15			Impacts of multiple stressors on biodiversity-ecosystem functioning relationships.	Tasman Crowe
16:15 – 16:30			Effects of changes in relative abundances of rare and common species of benthic assemblages.	Miguel Matias
16:30 – 16:45			Impacts of diversity on intertidal algal communities: why is it common to be rare?	Paul South
16:45 – 17:00			The effects of loss of species on ecosystem functioning are determined by environmental conditions in a temperate reef system.	Nessa O'Connor
17:00 – 17:30			<b>Keynote</b> - What the heck is beta diversity, anyway?	Marti Anderson
17:30 – 18:00			<b>Keynote</b> - Long-term (30-year) tests of hypotheses about structure of intertidal assemblages.	Tony Underwood
19:30 – 22:00	<b>Buffet dinner at the National Marine Aquarium, Rope Walk, Plymouth</b>			

Tuesday 28 June		Lower Lecture Theatre	Upper Lecture Theatre	
			<b>Propagules, Populations &amp; Productivity I /Macro &amp; General Ecology I (Chair: Thomas Wernberg)</b> Session sponsored by the British Phycological Society & The British Ecological Society	
09:00 – 09:30			<b>Keynote</b> – Recruitment and survival of <i>Fucus</i> embryos: Understanding physiological adaptation in an environmental context.	Colin Brownlee
09:30 – 10:00			<b>Keynote</b> - Fractured connectivity in a changing wave environment: consequences for algal settlement following diffuse and local impacts.	David Schiel
10:00 – 10:30			<b>Keynote</b> - Generation of continental-scale patterns of diversity: ocean-footprints through local-interactions	Sean Connell
10:30 – 11:00	<b>Break – Tea and coffee available in the foyer</b>			
	<b>Propagules, Populations &amp; Productivity II (Chair: David Schiel)</b> Session sponsored by the British Phycological Society		<b>Macroecology &amp; Modelling I (Chair: Sean Connell)</b>	
11:00 – 11:15	The effects of inbreeding on the metapopulation dynamics of the giant kelp.	Dan Reed	Introducing statistical rigour into ecological ordination plots.	Matthew Pawley
11:15 – 11:30	Prezygotic barriers to hybridization in marine broadcast spawners: reproductive timing and mating system variation in sibling species.	Gareth Pearson	Simple simulations of marine organisms can predict complex spatial and temporal patterns.	Richard Stafford
11:30 – 11:45	Contribution of biofilm to ecosystem functioning in rockpools and effect of different macroalgal assemblages.	Claire Golléty	Identifying coherent groups of species responding to spatio-temporal environmental gradients: a statistical method.	Paul Somerfield
11:45 – 12:00	Ecosystem function in macroalgal assemblages: why canopy layering assemblage structure matters.	Leigh Tait	Global patterns in marine herbivory: are there any latitudinal effects?	Adriana Vergés
12:00 – 12:15	Cross-shelf comparisons of NE New Zealand kelp forest communities provide insight into reef ecosystem function.	Jenny Beaumont	Intertidal biodiversity in New Zealand: current status and future concerns.	Nova Mieszkowska
12:15 – 12:30	Seasonal changes in tidal cycle controls ingestion of macro or microalgae by an important intertidal consumer.	Ronaldo Christofeltti	Predicting beta diversity in the marine environment: algal diversity patterns and their relationship with environmental variables on shallow subtidal reefs across southern Australia.	Nicole Hill


12:30 – 13:30	<b>Lunch Break – buffet lunch available in the foyer</b>			
<b>Tuesday 28 June</b>	<b>Lower Lecture Theatre</b>		<b>Upper Lecture Theatre</b>	
	<b>Propagules, Populations &amp; Productivity III (Chair: Claire Golléty)</b> Session sponsored by the British Phycological Society		<b>Macroecology &amp; Modelling II /Ecology I (Chair: Lynda Bellchambers)</b>	
13:30 – 13:45	Disturbance and recovery of kelp beds in a dynamic environment: pulse experiments in non-equilibrium systems.	Gary Kendrick	Wave fetch, tidal flow and ocean colour as influences on subtidal rock communities.	Michael Burrows
13:45 – 14:00	Spatial subsidies provided by organic matter export from kelp forests: importance of storm-driven pulses versus chronic export.	Thibaut de Bettignies	Changes in rocky shore assemblages on a European scale: environmental or top down control?	João Ferreira
14:00 – 14:15	Spatial and temporal variability of macroalgal assemblages along the Istrian rocky coast (northern Adriatic, Croatia).	Ljiljana Iveša	Environmental determinants of the regional distribution of NW Atlantic rocky intertidal invertebrates.	Ricardo Scrosati
14:15 – 14:30	The importance of seaweed rafting in structuring intertidal species assemblages.	Emmett Clarkin	Limpets inside and outside tidepools along the SW Portuguese coast: a multi-scale study.	Maria Inês Seabra
14:30 – 14:45	Functional identity and functional structure of a molluscan herbivore assemblage change drastically through algal succession.	Moises Aguilera	Positive interactions along an exposure gradient: a look at the effects of spatial and temporal variability of the kelp canopy on community structure.	Kendra Karr
14:45 – 15:00	Annual carbon budget of a canopy-dominated intertidal community surpasses traditional estimates for macroalgae.	Claire Golléty	The influence of habitat on the spatial distribution of benthic communities: a case study with rock lobster.	Lynda Bellchambers
15:00 – 15:15	TBC		Impact of an introduced species on the functioning of a native ecosystem.	Laure Noël
15:15 – 15:30	TBC		A species of herbivorous, territorial damselfish in temperate Australia has the potential to impact algal assemblages at greater spatial scales than its tropical counterparts.	Ben Saunders
15:30 – 16:00	<b>Break – Tea and coffee available in the foyer</b>			

Tuesday 28 June	Lower Lecture Theatre	Upper Lecture Theatre	
		<b>Global Change (Climate &amp; Ocean Acidification) I (Chair: Daniel Smale)</b>	
16:00 – 16:15		Keeping up with the warming climate: the importance of thermoregulatory behaviours in the intertidal.	Coraline Chapperon
16:15 – 16:30		Climate-induced changes in variability of extreme events and loss of habitat formers: compounded effects on marine coastal assemblages.	Elena Maggi
16:30 – 16:45		Extreme environmental conditions & intertidal organisms: examples from two case studies in the sub-tropics.	Louise Firth
16:45 – 17:00		Hot hard bottoms: a novel technique for examining the effect of seawater warming on benthic communities.	Daniel Smale
17:00 – 17:15		Climate driven changes in recruitment success of marine invertebrates: The role of food supply.	Katherine Griffith

18:00 – 20:00	<p><b><i>Drinks reception at the Marine Biological Association, followed by free time.</i></b></p> <p><b><i>Guides will be available to escort groups down between 17:15 and 18:00. More information will be available on the day.</i></b></p> <p><b>This reception is kindly sponsored by the Marine Biological Association, Sharps Brewery and St Austell Brewery.</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>
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Wednesday 29 June	Lower Lecture Theatre		Upper Lecture Theatre	
			<b>Global Change (Climate &amp; Ocean Acidification) II (Chair: Gray Williams)</b>	
09:00 – 09:30			<b>Keynote</b> – Potential impact of climate-related changes is buffered by differential responses to species interactions.	Bruce Menge
09:30 – 10:00			<b>Keynote</b> - Latitude and aptitude: linking biogeography, physiology and genetics to reduced ecological function of seaweeds in a marginal climate.	Thomas Wernberg
10:00 – 10:15			A global imprint of climate change on marine biological systems.	Pippa Moore
10:15 – 10:30			Are invaders tougher?	Martin Wahl
10:30 – 11:00	<b>Break – Tea and coffee available in the foyer</b>			
	<b>Global Change (Climate &amp; Ocean Acidification) III (Chair: Scott Ling)</b>		<b>Ecology II (Chair: Peter Fairweather)</b>	
11:00 – 11:15	Worldwide analysis of three decades of high-resolution coastal sea temperatures reveals more than warming.	Fernando Lima	Induced predatory responses by bioengineers do not have cascading influences to associated fauna.	Victoria Cole
11:15 – 11:30	Underestimating SE Asia's intertidal biodiversity: implications for climate change predictions.	Gray Williams	Predation has an effect upon the distribution and abundance of the stalked barnacle <i>Pollicipes pollicipes</i> in Portugal.	Teresa Cruz
11:30 – 11:45	Resistance against phase-shifts from kelp forests to algal turfs: grazers fail to eat their share under future conditions.	Bayden Russell	The factors influencing the dietary compositions of the reef fish, <i>Chrysophrys auratus</i> and <i>Pseudocaranx georgianus</i> , and their incorporation into a food web for the lower west coast of Australia.	Ben French
11:45 – 12:00	How hot is hot? Characterization of induced thermal stress levels in <i>Patella</i> spp.	Rui Seabra	Consumer-resource interactions at the edge: ecological processes and biogeographic range limits in four intertidal species.	Bernardo Broitman
12:00 – 12:15	Experimental warming reduces invertebrate density and community diversity on rocky shores.	Rebecca Kordas	The abundance of the invasive isopod <i>Cirolana harfordi</i> in different habitats.	Ana Bugnot
12:15 – 12:30	Pursuing predator-driven habitat recovery on a warming coast: residency of large lobsters reintroduced to sea urchin barrens ground.	Scott Ling	TBC	

Wednesday 29 June	Lower Lecture Theatre	Upper Lecture Theatre		
12:30 – 13:30	<b>Lunch Break – buffet lunch available in the foyer</b>			
	<b>Global Change (Climate &amp; Ocean Acidification) IV (Chair: Christopher Harley)</b>	<b>Ecology III (Chair: Markus Molis)</b>		
13:30 – 13:45	Pre-selection in marginal habitats - juvenile barnacles ( <i>Amphibalanus improvisus</i> ) tolerate high levels of ocean acidification	Martin Wahl	Respiratory carbon fluxes in mussel: Intertidal and subtidal beds compared.	Morgana Tagliarolo
13:45 – 14:00	How will forecasted CO <sub>2</sub> affect gastropod grazing?	Laura Falkenberg	Bioconstruction processes in the northern Adriatic coralligenous reefs.	Federica Fava
14:00 – 14:15	Ecological impacts of ocean acidification in the Northeast Pacific.	Christopher Harley	Disturbance to conserved bacterial communities in <i>Eunicella verrucosa</i> : environmental factors and monitoring for susceptibility to disease.	Emma Ransome
14:15 – 14:30	Some like it hot: responses of molluscan embryos to a warming and acidifying ocean.	Andy Davis	Zoogeography and connectivity of intertidal communities in the West Indian Ocean as determined by major oceanographic circulation systems: patterns from the widespread <i>Tetraclita</i> barnacles.	Benny Chan
14:30 – 14:45	Effects of ocean acidification on temperate reefs.	Jason Hall-Spencer	Scared to austereness - Risk effects on prey ( <i>Littorina littorea</i> ) reproduction depend on predator ( <i>Carcinus maenas</i> ) diet and origin.	Markus Molis
14:45 – 15:00	Sicilian CO <sub>2</sub> vents show effects of ocean acidification on rocky shores.	Mariagrazia Graziano	The mutual mucus ingestion hypothesis. Evidence of convergent resource use in intertidal grazing gastropods within experimental microcosms.	Gill Notman
15:00 – 15:15	Ecosystem rebuilding to manage climate-driven incursion of sea urchins	Craig Johnson	The effects of suspended particulate matter and burial on the behaviour and survival of <i>Sabellaria spinulosa</i> and <i>Mytilus edulis</i> .	Kim Last
15:15 – 15:30	Diseases affecting habitat-forming seaweeds: complex environmental effects on pathogens and hosts.	Alexandra Campbell	Post-settlement density-dependent mortality and predation overrides flow-mediated supply.	Antony Knights
15:30 – 16:00	<b>Break – Tea and coffee available in the foyer</b>			

<b>Wednesday 29 June</b>	<b>Lower Lecture Theatre</b>	<b>Upper Lecture Theatre</b>	
16:00 – 16:30		<b>Ecology IV (Chair: Kim Last)</b>	
16:30 – 16:45		A century of interactions of climate change and fishing on the pelagic and demersal assemblages adjacent to the Eddystone Reef and in the wider English Channel.	Steve Hawkins
16:45 – 17:00		What, where and how bumpy? Spatial variation in species- and community-level biodiversity along topographically variable rocky shores	Mick Hanley
17:00 – 18:30	<p><b><i>Poster Session in the foyer and mezzanine areas – wine and nibbles available</i></b></p> <p><b>This session is kindly sponsored by the Marine Institute at the University of Plymouth</b></p>		
	 <p>The logo for the Marine Institute at the University of Plymouth features the text 'Marine Institute' in a large serif font, with 'UNIVERSITY OF PLYMOUTH' in a smaller sans-serif font below it. To the right of the text is a stylized graphic of three overlapping curved shapes in shades of blue and green, resembling waves or a sail.</p>		

<b>Evening</b>	<b>Free time</b>
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Thursday 30 June	Lower Lecture Theatre		Upper Lecture Theatre	
	<b>Exploited Populations (Chair: Gustavo Martins)</b> Session sponsored by The Malacological Society of London		<b>Reef Building Organisms (Chair: Bryony Pearce)</b>	
09:00 – 09:30			<b>Keynote</b> – Rocky intertidal communities: past environmental changes, present status and predictions for the next 25 years	Richard Thompson
09:30 – 09:45	Rocky shore fisheries in SW Portugal: effects of regulations on use and opinion on conservation and management issues.	Joao Castro	Is <i>Sabella pavonina</i> (Polychaeta, Sabillidae) a biogenic reef-forming species?	Gordon Watson
09:45 – 10:00	Exploitation of keystone species: population and community-level effects.	Gustavo Martins	Impact of introduced Pacific oysters, <i>Crassostrea gigas</i> , on the recruitment of <i>Sabellaria alveolata</i> in boulder-fields.	Dannielle Green
10:00 – 10:15	Don't forget the bait! Subsidies of organic matter to wild capture fisheries.	Kris Waddington	Reef-building ecosystem engineers in shallow temperate soft-bottom environments: Challenges and conflicts for management.	Marijn Rabaut
10:15 – 10:30	TBC		Invertebrate Diversity Associated with <i>Sabellaria spinulosa</i> Reefs in the UK.	Bryony Pearce
10:30 – 11:00	<b>Break – Tea and coffee available in the foyer</b>			
	<b>Restoration &amp; Management (Chair: Gee Chapman)</b>		<b>Deep-Sea Reefs (Chair: Kerry Howell)</b>	
11:00 – 11:15	The effect of marine reserves on snapper in northern New Zealand: an analysis using Bayesian hierarchical mixed models.	Adam Smith	Possible effects of gorgonian forest loss on Mediterranean coralligenous assemblages.	Massimo Ponti
11:15 – 11:30	California's Gold: Using ecological and collaborative research to inform fisheries management strategies for the red sea urchin, <i>Strongylocentrotus franciscanus</i> .	Sarah Teck	A detailed survey of Haig Fras	Fionnuala McBreen
11:30 – 11:45	The reserve effect of a temperate MPA in the NW Atlantic (The Arrábida Marine Park, Portugal).	Emanuel Gonçalves	Coral gardens on Anton Dohrn Seamount.	Jaime Davies
11:45 – 12:00	Evaluating the integrity of fish communities in temperate reefs.	Miguel Pais	Investigation of deep-sea echinoid feeding ecology on the Irish continental margin: Implications for deep-sea coral ecosystems.	Angela Stevenson
12:00 – 12:15	Experimental tests of the feasibility of restoring intertidal boulder-fields for rare and common species of molluscs	Gee Chapman	Habitat complexity and biodiversity: bryozoan patch-reef size and polychaete biodiversity on the New Zealand continental shelf.	Anna Wood

Thursday 30 June	Lower Lecture Theatre		Upper Lecture Theatre	
	<b>Restoration &amp; Management - continued</b>		<b>Deep-Sea Reefs - continued</b>	
12:15 – 12:30	Processes affecting the re-establishment of the habitat-forming alga <i>Phyllospora comosa</i> in Sydney.	Ezequiel Marzinelli	Cold-water coral reefs along the French margin in the Bay of Biscay (NE Atlantic)	Brigitte Guillaumont
12:30 – 12:45	Anthropogenic pressures along the Portuguese coast: integrating information for MPA planning.	Marisa Batista	The Darwin Mounds revisited: status of cold-water coral reefs after 8 years of protection.	Veerle Huvenne
12:45 – 13:00	Habitat heterogeneity and patchiness on man-made structures	Richard Thompson	The use of maximum entropy modelling in reef habitat mapping: the case of boreal <i>ostur</i> , a deep-sea sponge aggregation.	Kerry Howell
13:00 – 14:00	<b>Lunch Break – buffet lunch available in the foyer</b>			
	<b>Disturbance (Chair: Hilmar Hinz)</b>		<b>Artificial Structures (Chair: Mark Browne)</b> Session sponsored by the THESEUS Project	
14:00 – 14:15	Recovery of temperate reef fauna from the effects of towed fishing gear.	Emma Sheehan	Reef Nienhagen – the largest artificial reef in the Baltic Sea.	Christof Schygula
14:15 – 14:30	Effects of a scallop dredging on temperate reef fauna.	Hilmar Hinz	Water-tight solutions to engineering intertidal biodiversity in our cities.	Mark Browne
14:30 – 14:45	Detecting change in Marine Protected Areas: a comparison of in-situ monitoring regimes of subtidal reefs in Wales.	Damon Stanwell-Smith	The influence of environmental design features for marine life inhabiting coastal engineering structures.	Juliette Jackson
14:45 – 15:00	Biodiversity patterns on Eastern Mediterranean vermetid reefs: an endangered ecosystem.	Gil Rilov	Hydrodynamic conditions and particle behaviour within two artificial reefs in different water depth of the south-western Baltic Sea: first results.	Florian Peine
15:00 – 15:15	<i>Ostreopsis ovata</i> blooms: an emergent phenomenon threatening temperate reefs.	Valentina Asnagli	Cobble-filled collectors as a monitoring tool for biodiversity patterns in rocky subtidal habitats.	Heather Hunt
15:15 – 15:30	TBC		Restoration of degraded biogenic reefs: a pilot study using artificial reefs to kick start the regeneration of <i>Modiolus modiolus</i> biotopes in Strangford Lough, Northern Ireland.	José Maria Fariñas-Franco

Thursday 30 June	Lower Lecture Theatre	Upper Lecture Theatre
15:30 – 16:15	<i>Break – Tea and coffee available in the foyer</i>	
16:15 – 16:45		Close of meeting

19:30 – 23:00	Conference dinner at The Holiday Inn, Plymouth – 3 course dinner and dancing.
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Kindly sponsored by:



**Organising Committee: Richard Thompson, Steve Hawkins, Kerry Howell, Louise Firth, Sarah Gall, Stacey DeAmicis**

**Marine Institute, University of Plymouth** ([www.plymouth.ac.uk/marine](http://www.plymouth.ac.uk/marine))

**Conchological Society of Great Britain and Ireland** ([www.conchsoc.org/](http://www.conchsoc.org/))

**The Malacological Society of London** ([www.malacsoc.org.uk/](http://www.malacsoc.org.uk/))

**The THESEUS Project** ([www.theseusproject.eu/](http://www.theseusproject.eu/))

**The European Network of Marine Research Institutes and Stations** ([www.marsnetwork.org/](http://www.marsnetwork.org/))

**Environmental Protection Agency** ([www.epa.ie/](http://www.epa.ie/))

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