

CURRICULUM VITAE Saunders, G

Name	Saunders, Graham	
Title	Dr.	
Nationality	British	
Profession	Marine Ecologist and Independent Environmental Consultant	
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Professional Education

- 1999 Heriot-Watt University, Edinburgh U.K., PhD (Awarded NERC Studentship)
- 1992 Heriot-Watt University, Edinburgh U.K., BSc (Hons) Applied Marine Biology
- 1982 Brighton Centre for Advanced Biology, U.K., Higher National Certificate in Applied Biology

Professional Memberships

- Fellow of The Royal Geographical Society (FRGS) (Elected 1996)
 - Member of The Society of Biology (MSB) (Elected 1992)
 - Chartered Biologist (CBiol.)
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Present Position Marine Ecologist and Independent Environmental Consultant

Employment Record

- 2007 – 2009 Marine Team Leader/Senior Environmental Scientist, Royal Haskoning Ltd.
 - 2006 – 2007 Policy and Advice Manager, Scottish Natural Heritage,
 - 2002 – 2006 Marine Monitoring and Survey Officer, Scottish Natural Heritage
 - 1999 – 2002 Maritime Advisory Officer, Scottish Natural Heritage
 - 1996 – 1996 Project Leader, Falkland Island Marine Survey, Falkland Island Government./IC Consultants
 - 1991 – 1999 Various, Short Contracts/PhD Research
 - 1979 – 1990 Biotechnology research for Government and industry
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Experience Record

- 2009 - 2010 Independent Environmental Consultant
Recent projects include: the site condition monitoring of the Loch Laxford SAC, NW Scotland (for SNH); engagement as an Expert Witness to the Dublin Gateway Development Public Inquiry (requiring detailed statistical analyses of benthic grab data) (Client Dublin Port Company); a data review and subsequent design of an integrated and comprehensive long-term monitoring and reporting programme for the Lundy Marine Conservation Zone (for Natural England); working with SNH/Heriot-Watt University to identify suitable new candidates for Marine Protected Areas in Scotland; the production of the benthic ecology section of a SNH/Marine Scotland guidance document on the survey and monitoring requirements for the installation of wave and tidal devices

Most recent: the establishment of statutory Conservation Objectives for all of the marine conservation sites established under the EU Habitats Directive as part of a response to a recent unfavourable European Court Judgement. This required detailed multivariate (PRIMER) statistical analyses of a wide range of marine survey and monitoring data and the provision of reports and map outputs using GIS (ArcGIS) suitable for conservation management, statutory consents advice and marine spatial planning of Ireland's commercial and recreational activity.

- 2007 – 2009 Marine Team Leader, Royal Haskoning
Management of a team of seven environmental consultants engaged in a diverse range of projects including: scoping and environmental impact assessment for several wind and tidal energy projects; environmental management and monitoring of the installation and commissioning of a tidal turbine in Strangford Lough; historical and new data preparation and entry into Marine Recorder; oil platform decommissioning options studies; marine and coastal site condition monitoring of designated conservation areas, broad scale survey and data

management for UK Conservation Agencies; mapping the distribution of the invasive seaweed *Sargassum muticum* in Scotland and the development of Scottish Government Marine Ecosystem Objectives.

2006 – 2007
United Kingdom

Policy and Advice Manager, Trends and Indicators Group, Scottish Natural Heritage
Management of the Trends and Indicators Group responsible for coordinating the collection, analyses, publication and dissemination of data relating to change in Scotland's environment, promoting the delivery of 'evidence-led' policy for Scotland's Environment. A key element was the completion of a suite of Scottish Biodiversity Indicators, providing a framework for the long-term charting of environment change and establishing progress in halting biodiversity decline.

2002 – 2006
United Kingdom

Marine Monitoring and Survey Officer, Scottish Natural Heritage.
Primarily responsible for the development of SNH's marine site condition monitoring strategy for all Scottish marine designated sites and the establishment and coordination of a permanent rolling monitoring programme. I was also responsible for submitting the feature condition assessments in fulfilment of the UK's obligations under the EU Habitats Directive for the majority of Scotland's marine and coastal designated sites at the end of the first reporting cycle. A key part of this process was the planning, management and commissioning of marine survey and monitoring programmes, including extended on-site participation as Nominated Officer for a wide range of intertidal, diving and ship-based surveys. Additional tasks included the undertaking of deep-water remote sampling surveys (Grab, ROV, drop-down video) in support of the establishment of the presence of *Lophelia pertusa* reef in Scottish waters.

1999 – 2002
United Kingdom

Maritime Advisory Officer, Marine Consultation Areas, Scottish Natural Heritage.
Contracted to conduct a full review of Scotland's twenty-nine Marine Consultation Areas to assess their current relevance in the light of changing conservation priorities and objectives and to provide revised justifications using updated information and survey data. In addition, a preliminary list of new locations was compiled with justifications based on current research and survey data, requiring extensive literature survey, a comprehensive interrogation of the MNCR Database and a detailed prior knowledge of the abundance and distribution of European habitats and species. An additional task was the undertaking of an audit of the Scottish marine environment and the production of a report on the current state of Scotland's seas, the results of which were presented Joint SEPA-SNH Conference entitled "*The State of Scotland's Environment and Natural Heritage*". I also contributed two chapters ('The Seas' and 'Marine Fisheries') to the SNH publication *Natural Heritage Trends: Scotland 2001*. Subsequent research was published in the SNH publication "*The Seas Around Scotland 2004*".

1996 – 1996
Falkland Islands,
United Kingdom

Project Leader, Falkland Islands Marine Survey
Management of a 5-man team of marine biologist/survey divers and a survey vessel (*MV Forrest*) and crew. Planning and implementation of littoral and sublittoral survey strategy and logistics (including enforcement of diving safety considerations) using the MNCR reporting format. I also maintained a formal liaison with Falkland Island Government Officials, local environmental groups and U.K management organisations. In addition, the preparation of Final Report and presentation of results to local interest groups and public forums.

Other Qualifications

HSE Part IV Commercial Diver (valid in-date diver medical)
Scientific Diving Supervisory Committee European Advanced Scientific Diver
BSAC Advanced Instructor (CMAS 3 star Instructor)
BSAC Oxygen Administration Instructor
IANTD Mixed Gas Blender
ROV Pilot certificates for Hydrovision Hyball and Seaeye Falcon vehicles
VHF Radio Operator Certificate
MCA-Approved Elementary First Aid
Emergency First Aid
