

# *Curriculum Vitae*

*Ricardo da Piedade Abreu Serrão Santos*

## *Curriculum Vitae: Short Résumé*



Ricardo Serrão Santos, Doctor in Biology and Animal Ecology is Principal Researcher at the University of the Azores, Director of the Department of Oceanography and Fisheries, Pro-Rector of the University of the Azores and President of IMAR-Institute of Marine Research. RSS is being dedicated to the study of marine biodiversity and ocean ecosystems, and has more than 300

hundred published works of which around 100 papers in SCI journals cited in the *Web of Knowledge*. He is co-editor of a book on “Seamounts: Ecology, Fisheries and Conservation” published by Blackwell in 2007, and co-author of a *Virtual Centre of Marine Interpretation (CIMV)*, which, besides its base in Horta, also appeared as a DVD in 2007. RSS supervised(s) around 15 PhD students and 12 Post-Docs. He has participated in many workshops and conferences both as participant, key note speaker, organizer and/or chair. In 2008 was invited by the Marine Board of the European Science Foundation as co-chair for the “Working Group on Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources” (MB-ESF, ICES, EFARO). Actual main interests and activities include marine conservation of habitats and biodiversity of both shallow and deep-sea ecosystems of the Azores Region, implementation of MPAs and experimental evaluation of their benefits, but also experimental studies of deep-sea organism under laboratory conditions. RSS coordinated the research and management proposals for the network of Natura 2000 in the Azores and the deep-sea hydrothermal vents Lucky Strike, Menez Gwen, Rainbow and the seamount Sedlo, which were proposed by Portugal to integrate the OSPAR network of Marine Protected Areas. In 2002 he was awarded a “*Gift to the Earth*” by WWF-International; in 2007 RSS was nominated “*Maritime Ambassador*” by the European Commission; in 2008 was invited as one of the two “personalities of high merit” appointed by the Government of Portugal for the board of directors of the “Permanent Forum for Sea Affairs” [*Fórum Permanente para os Assuntos do Mar*]; in 2008 received the *Rotary Prize 2007-2008* on education; in 2008 was named Fellow of the Navy Academy (Lisbon); in 2009 received the Prize “Seeds of Science” in category of “Earth, Marine and Atmospheric Sciences” give by the journal “*Ciência Hoje*” (Portugal).

## Curriculum Vitae: *Résumé*



Ricardo Serrão Santos, Doctor in Biology and Animal Ecology is Principal Researcher at the University of the Azores, Director of the Department of Oceanography and Fisheries, Pro-Rector of the University of the Azores and President of IMAR-Institute of Marine Research. RSS is being dedicated to the study of marine biodiversity and ocean ecosystems, and has more than 300 hundred published works of which around 100 papers in SCI journals cited in the *Web of Knowledge*. He is co-editor of a book on “Seamounts: Ecology, Fisheries and Conservation” published by Blackwell

Publishing/Wiley Interscience in 2007, and co-author of a *Virtual Centre of Marine Interpretation* (CIMV), which, besides its base in Horta, also appeared as a DVD in 2007. RSS supervised(s) around 15 PhD students and 12 Post-Docs. He has participated in many workshops and conferences both as participant, key note speaker and/or organizer. In 2008 was invited by the Marine Board of the European Science Foundation as co-chair for the “Working Group on Science dimensions of Ecosystem Approach to Management of Biotic Ocean Resources” (MB-ESF, ICES, EFARO). RSS is member of several international Steering Committees among which the MarBEF (European Network of Excellence on Marine Biodiversity), and two Census of Marine Life programs: MAR-ECO (Patterns and Processes of the Ecosystems of the Mid-Atlantic Ridge) and ChESS (Biogeography of Chemosynthetic Ecosystems). RSS is member of the Scientific Council for Marine Sciences and Environment (MCTES/FCT-Portugal), Portuguese Delegate at the Committee of Research Infrastructures at the EC-DG Research. RSS is also member of ICES Working Group of Marine Habitat Mapping, co-chair of the WG Monitoring and Observatories of InterRidge and co-chair of the WG on Deep Sea Research (COI-Lisbon). He is member of the Intersectorial Oceanographic Commission (Lisbon). He is co-ordinator and/or partner of several national, European and international scientific projects. He has wide experience in ocean scientific cruises (R/Vs: Atalante, Akademic Mystlav Keldish, Arquipélago, Noruega, G.O. Sars), including those involving submersibles (Nautile, MIR, Victor 6000, Aglantha 2000, Bathysaurus 5000).

Actual main interests and activities include marine conservation of habitats and biodiversity of both shallow and deep-sea ecosystems of the Azores Triple Junction and Mid Atlantic Ridge, implementation of MPAs and experimental evaluation of their benefits, but also experimental studies of deep-sea organism under laboratory conditions. In 1998, at the 1st MoMAR workshop he proposed the idea for the installation in Faial of a land based laboratory dedicated to the study of hydrothermal vent organisms, what was achieved a few years later as LabHorta. RSS coordinated the research and management proposals for the network of Natura 2000 in the Azores and the deep-sea hydrothermal vents Lucky Strike and Menez Gwen and the seamount Sedlo. RSS has been called, as expert in marine sciences and technologies, biodiversity and conservation, to represent several Portuguese ministries (e.g. Science and Higher Education, Foreign Affairs and Environment), as well as the Government of the Autonomous Region of the Azores, in international meetings.

In 2002 he was awarded a “Gift to the Earth” by WWF-International; in 2007 RSS was nominated “Maritime Ambassador” by the European Commission; in 2008 was invited as one of the two “personalities of high merit” appointed by the Government of Portugal for the board of directors of the “Permanent Forum for Sea Affairs” [Fórum Permanente para os Assuntos do Mar]; in 2008 received the Rotary Prize 2007-2008 on education; in 2008 was named Fellow of the Navy Academy (Lisbon); in 2009 received the Prize “Seeds of Science” in category of “Earth, Marine and Atmospheric Sciences” give by the journal “Ciência Hoje” (Portugal).

# *Curriculum Vitae*

## *(Detailed)*

**Name:** Ricardo da Piedade Abreu Serrão Santos. (**Short name:** Ricardo Serrão Santos)

**Locality and date of birth:** Portalegre, 11 of October 1954

**Nationality:** Portuguese

**Private Address:** Rua Padre Manuel Madruga, 4. PT-9900-361 Feteira HRT (Açores)  
Portugal

**Official Address:** Departamento de Oceanografia e Pescas, Universidade dos Açores,  
Cais de Santa Cruz, PT-9901-862 Horta (Açores) Portugal. **Telephone:** +351.292.943937  
(home); +351.292.200407 (office); + 351.292200400 (general). **Fax:** +351.292.200411.

**E-mail:** [ricardo@uac.pt](mailto:ricardo@uac.pt), [rserraosantos@yahoo.com](mailto:rserraosantos@yahoo.com), [ricardoserraosantos@gmail.com](mailto:ricardoserraosantos@gmail.com)

**Researcher ID:** <http://www.researcherid.com/rid/B-3960-2008>

### **Academic qualification:**

- 1974- 1979: *Diploma & Licenciatura* (16/20), ISPA (*Instituto Superiore de Psicologia Aplicada*), Lisboa, Portugal.
- 1984: APCC (equiv. to MSc), University of the Azores, Portugal.
- 1992: PhD, Faculty of Sciences, University of Liverpool, UK.
- 1993: Doctor of Biology, University of the Azores, Portugal.

### **Actual scientific and/or professional situation:**

- since July 2006: President of IMAR – Institute of Marine Research (Instituto do Mar)
- since July 2003: Pro-Rector of the University of the Azores.
- March 2003 - March 2006: President of the Observatory of the Sea– Azores –OMA (Observatório do Mar- Açores)- (non-profit association)
- since 2001: Member of the Coordinating Council of the Associated Laboratory #9 ISR-IST/IMAR-DOP/CREMINER-FCUL
- since December 1998: Principal Researcher at the University of the Azores.
- since January 1998: President of POPA (Observer Program of the Fisheries of the Azores).
- May 1997 – July 2006: Vice- President of the IMAR- Institute of Marine Research.

- since February 1997: Director of the Department of Oceanography and Fisheries (DOP – Departamento de Oceanografia e Pescas)<sup>1,2</sup> of the University of the Azores
- since 1996: scientific coordinator of the Centre of IMAR of the University of the Azores (research unit # 531 of the Foundation for Science and Technology/ Ministry of Science and Higher Education –Lisbon).

**Specialisation area:** Behavioural ecology (Animal ecology).

**Other fields:** Ethology, Ichthyology.

**Main research interests:** behavioural ecology and reproduction of teleost fishes; ecology of fish assemblages; trophic relationships, biodiversity, marine conservation, coastal ecology (assessment and management of resources), biology and ecology of hydrothermal vents, spatial planning.

**Prizes and Recognitions:** *Gift to the Earth* certificate attributed by the WWF (June 2002); Maritime Ambassador, nominated in July 2007 by the EC Commissar Joe Borg; Rotary Prize 2007/2008 on education; invited as one of the two “personalities of high merit” appointed by the Government of Portugal for the board of directors of the “*Permanent Forum for Sea Affairs*” [Forum Permanente para os Assuntos do Mar]; received the 2009 Prize “Seeds of Science” in category of “Earth, Marine and Atmospheric Sciences” give by the journal “*Ciência Hoje*” (Portugal).

**Academy Fellowship (by nomination):** Fellow of the Navy Academy, Lisbon. [Membro Correspondente da Academia da Marinha, Lisboa] since 2008.

### **Supervision and related fellowships:**

#### *Licenciaturas*

Pedro Afonso Santos 1995. Comportamento e selecção sexual na castanqueta azul, *Abudefduf luridus* (Valenciennes, 1886) dos Açores. [Behavior and sexual selection in the bluefin damselfish *Abudefduf luridus* (Valenciennes, 1886) of the Azores] (concluded in October 1995 - Universidade do Algarve)

Telmo Morato Gomes 1995. Ecologia alimentar de *Serranus atricauda* (Günther, 1874) dos Açores. [Feeding ecology of blacktail comber *Serranus atricauda* (Günther, 1874) from the Azores.] (concluded in October 1995- Universidade do Algarve)

Carla Correira 1997. Comportamento reprodutor do rói-anzóis, *Ophioblennius atlanticus* (Pisces: Blenniidae): Paternidade, alopaternidade e canibalismo [Reproductive behaviour of the redlip blenny (Pisces: Blenniidae): Paternity, allopaternity and cannibalism] (concluded in 1997- Universidade do Algarve)

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<sup>1</sup> In 2007 DOP was referred by the journal *Research\*EU: Magazine of the European Research Area* one of the “main pillars of European oceanographic excellence” (...) “...setting very high standards” in ocean sciences and also one of the “centres that are doing the EU proud”. (Special Issue December 2007- Maritime Policy: The State of the Ocean. P. 3 and p. 42 [http://ec.europa.eu/research/research-eu/sea/article\\_mer42\\_en.html](http://ec.europa.eu/research/research-eu/sea/article_mer42_en.html)).

<sup>2</sup> In 2008 DOP was awarded by the President of Portugal with the medal of *Membro Honorário da Ordem da Sant'Iago de Espada* (Honorary Member of the Military Order of Sant'Iago of the Sword), which distinguishes institutions with proved merit in the fields of the Arts, Science and Culture.

- Fernando Tempera 1997. Estudos sobre as variações espaciais das associações de peixes Canal Pico-Faial (Açores). [Study on the spatial variation of the fish assemblages of Pico-Faial Channel (Azores)] (concluded in 1997 - Universidade de Lisboa/FCUL)
- Gustavo Costa 1977. Idade e crescimento de garoupa, *Serranus atricauda*, dos Açores [Age and growth of blacktail comber, *Serranus atricauda*, of the Azores] (concluded in May de 1997- Universidade dos Açores)
- Mafalda R. Oliveira 1997. Ecologia alimentar de *Tripterygion delaisi* Cadenat & Blache (1971) (Pisces: Tripterygiidae) dos Açores- Análise faseada do tracto digestivo/ Variação temporal e sexual da dieta. [Feeding ecology of *Tripterygion delaisi* Cadenat & Blache (1971) (Pisces: Tripterygiidae) of the Azores – Phased analysis of the digestive tract/ Temporal and sexual variation of the diet] (concluded in September 1997 - Universidade do Algarve)
- Miguel Machete 1998. Caracterização da ictiofauna críptica do Monte da Guia (Faial), utilizando um método de censos visuais. [Characterization of cryptic ichthyofauna of Monte da Guia (Faial), using a method of visual census]. (concluded in 1998 – Universidade do Algarve)
- Jorge M. Fontes 1998. Dinâmica dos cuidados aloparentais e variação sazonal e espacial da organização social dos representantes da família Pomacentridae (*Abudefduf luridus* e *Chromis limbata*) nos Açores [Dynamic of alloparental care and seasonal and spatial variation of social organization of representatives of the Pomacentridae family] (concluded in 1998 - Universidade do Algarve)
- Paula C. Lourinho 1998. Estudo da reprodução da garoupa *Serranus atricauda* (Günther, 1874) dos Açores. [Study of the reproduction of the blacktail comber, *Serranus atricauda* (Günther, 1874) of the Azores] (concluded in 1998 - Universidade dos Açores)
- Natacha Carvalho. 1999. Organização social e comportamento da solha, *Bothus podas maderensis* (Lowe, 1834), nos Açores. [Social organization and behaviour of the wide-eyed flounder, *Bothus podas maderensis* (Lowe, 1834), of the Azores]. (concluded in 1999 – Universidade do Algarve)
- Sónia Mendes \*\*\*\*. Foto-identificação no cetáceo *Tursiops truncatus* dos Açores. (concluída em \*\*\*\*\*- Universidade do Porto)

### ***MSc or APCC***

#### ***Concluded***

- João P. Barreiros 1995. Aspectos do comportamento e da reprodução do mero *Epinephelus marginatus* (Lowe, 1834) nos Açores. [Aspects of the behaviour and reproduction of the grouper *Epinephelus marginatus* (Lowe, 1834)] (concluded in 1995 - Universidade dos Açores)
- Telmo Morato Gomes 2001. Ecologia alimentar e relações tróficas de nove espécies de peixes demersais dos Açores. [Feeding ecology and trophic relationships of nine demersal fish species of the Azores] (concluded in 2001, University of Coimbra)

- Frederico Cardigos 2002. Contribuição para a implementação de um plano de gestão no Sítio de Interesse Comunitário Banco D. João de Castro. [Contribution for the implementation of a management plan for the Site of Community Interest of the D. João de Castro Bank, Azores]. (concluded in February 2002 - Universidade dos Açores)
- Pedro Afonso 2002. Padrões espaciais na comunidade de peixes costeiros dos Açores. [Spatial patterns in the coastal fish community of the Azores] (concluded in June 2002 - Universidade de Coimbra)
- Inês Seabra 2007. Distribuição do roaz (*Tursiops truncatus* Montagu 1821) e do cachalote (*Physeter macrocephalus* Linnaeus 1758) nas águas do arquipélago dos Açores (Portugal): Aplicação de Sistemas de Informação Geográfica e modelação ecológica na caracterização do habitat. [Distribution of bottlenose dolphin (*Tursiops truncatus* Montagu 1821) and the sperm whale (*Physeter macrocephalus* Linnaeus 1758) in the waters of the Azores archipelago (Portugal): Application of Geographic Information System and ecological modeling for habitat characterization] (concluded 2007, Universidade de Lisboa/FCUL)

### ***PhDs***

#### ***Concluded***

- João Pedro Barreiros (PRODEP - 2000): Ichthyological communities of the sand sub-tidal and rocky intertidal of Santa Catarina, Brazil: An ecological approach. (University of the Azores)
- João Gonçalves- Praxis XXI/ BD/13528/97: Genetic variation and bio-geography of the common octopus (*Octopus vulgaris* Cuvier, 1797) of the North eastern Atlantic. (co-supervisor: PhD awarded by the University of Liverpool, UK).
- Filipe Porteiro- Praxis XXI/BD/17053/98: - Mesopelagic fish of the north-eastern Atlantic. (co-supervisor: PhD awarded by the University of Liverpool, UK). (concluded in 2004)
- Telmo Morato Gomes - SFRH/BD/4473/2001: Ecology and fisheries of seamount ecosystems. (co-supervisor: PhD awarded by the University of British Columbia, Canada) (concluded 2007)
- Mónica Silva- SFRH/BD/8609/2002: Population structure of the bottlenose dolphin (*Tursiops truncatus*) in the Archipelago of the Azores, determined by genetic analysis and photo-identification studies (co-supervisor: PhD awarded by the University of St. Andrews, UK) (concluded 2007)
- Pedro Afonso dos Santos- SFRH/BD/11132/2002: Marine protected areas: Ecological effects and benefits for fisheries. (co-supervisor: PhD awarded by the University of Hawaii, USA) (concluded 2007)
- Vera Domingues- SFRH/BD/13069/2003: Reconstruction of post-glacial colonization routes of fish with tropical and sub-tropical affinities in the Azores: A biogeographic and molecular approach. (University of the Azores) (concluded 2008)

Fernando Tempera- SFRH/BD/12885/2003: Classification and Mapping of Benthic Sublittoral Biotopes in the Faial-Pico Channel (Azores) (co-supervisor: PhD awarded by the University of St Andrews, UK) (concluded 2008)

***Submitted (Waiting for examination)***

Mirko Girolamo – SFRH/BD/6916/2001: Genetic interpretation of the social mating system and larval dispersal in a fish with male parental care, the redlip blenny *Ophioblennius atlanticus atlanticus*. (submitted in January 2008, University of the Azores).

Jorge Fontes – SFRH/BD/12788/2003: Larval dispersal and recruitment patterns in Azorean coastal fishes (Implications for Marine Reserves). (submitted in May 2008, University of the Azores)

***On going***

Inês Martins – SFRH/BD/19736/2004: Metal behaviour in the different compartments of the hydrothermal ecosystem. (University of the Azores)

Damien SirJacobs: Benthic habitat mapping and study of the population dynamics of the macroalgae *Codium elisabethae* in the Azores. (co-responsibility: PhD to be awarded by the Université de Liège, Belgium and University of the Azores, Portugal)

Virginie Riou - MoMARNet (FP6-RTN/2003/505026) Marie Curie Fellowship 2005: Trophic ecology of the hydrothermal vent mussel *Bathymodiolus azoricus*. (co-responsibility: PhD to be awarded by the University of the Azores, Portugal and by the Université Libre de Bruxelles, Belgium)

Daphne Cuvelier – MarBEF (FP6-GOCE-CT-2003-505446) fellowship DeepSets 2006: Biodiversity and long-term change in chemosynthetic communities (PhD to be awarded by University of the Azores. In collaboration with University of Southampton-UK, MNH-UK, IFREMER-France, AWI-Germany).

João Gama Monteiro – SFRH/BD/27869/2006: Ecological assessment and molecular phylogeography approach of major coral communities in Cabo Verde. (University of the Azores)

Irma Cascão – SFRH/BD/41192/2007: Cetacean movements in relation to the dynamics of the sound-scattering layer in the Azores. (University of the Azores)

Mara Schmiing – FreeSubNet (FP6 RTN/2006/2/036186-2) Marie Curie Fellowship 2007: GIS spatial modelling for the evaluation of (multi)species essential marine coastal habitats in the Azores Mapping of multispecies essential habitats using GIS spatial modelling in the Azores. (University of the Azores)

***Post-Docs Researchers***

Ana Colaço: IMAR- EU-VENTOX 2000: Trophic ecology of hydrothermal vents (Jan 2002- Dec 2003)

Sophie Querouil: IMAR/FCT- PDOC- 006/2001- MoleGen Population genetics of Azorean and North-eastern Atlantic cetacea.

Jöel Bried: IMAR/FCT- PDOC- 001/2001- BirdEco - Mating system and reproductive success of two species of seabirds of the Azores.

Eniko Kadar: IMAR/FCT- PDOC- 003/2001- EcoToxi - Adaptions to extreme environment in the hydrothermal vent bivalve *Bathymodiolus azoricus*.

Sergio Steffani: IMAR/FCT – PDOC- 002/2001 - MoleGen. Molecular population genetics on marine fishes of the Azores.

Niels Bouton: IMAR/FCT – PDOC- 004/2001- BehaEco – Feeding ecology and morphological adaptions of Azorean Blennies.

Sophie Querouil: SFRH/BPD/19680/2004: Genetics of cetacean populations of the Azores and North-eastern Atlantic.

Jöel Bried: SFRH/BPD/20291/2004: Conservation of the petrels in the Azores.

Eniko Kadar: SFRH/BPD/19625/2004: Adaptations to extreme environment in the hydrothermal vent bivalve *Bathymodiolus azoricus* - Shell crystalization and heavy metal deposition -

Sergio Stefanni: SFRH/BPD/14981/2004: Molecular ecology and biogeography of coastal fishes of the Azores.

Niels Bouton: SFRH/BPD/14868/2004: Mate choice in blennies (Teleostei: Blenniidae).

Raul Bettencourt: SFRH /BPD/14896/2004: Marine invertebrate innate immunity: a case study in bivalve species found in the Azores islands, Portugal.

Irene Martins: SFRH/BPD/17654/2004: Modelling of the trophic relationships of deep-sea hydrothermal vent ecosystems of the Azores.

Paula Tavares: SFRH/BPD/14892/2004: The value of aquatic bird populations in the assessment of environmental quality.

Sérgio Paulo Ávila Campos Marques: SFRH/BPD/22913/2005: How did they get here? Palaeobiogeography and neobiogeography of the marine invertebrates of the Azores and Madeira: patterns and processes.

Ruth Higgins: IMAR/EMPAFISH/BPD1/001-003/2005-2008: European Marine Protected Areas as Tools for Fisheries Management and Conservation.

Verónica Neves: SFRH/BPD/26657/2005: Environmental variability and population dynamics: roseate terns as monitors of the Azores marine food-webs.

Mónica Silva: SFRH/BPD/29841/2006: Cetacean foraging ecology and habitat associations in the oceanic realm: an integrated approach.

Telmo Morato Gomes: SFRH/BPD/27007/2006: Developing ecosystem-based approaches to the management of Azores marine resources, biodiversity and habitats.

Pedro Afonso dos Santos: SFRH/BPD/27057/2006: Mapping habitat use and migration pathways of key fishes in the central-Atlantic - A multi-species, multi-habitat and multidisciplinary approach.

Jöel Bried: SFRH/BPD/36425/2007: Seabird conservation and climate change: the Azorean petrels as bio-indicators of the variations of oceanic conditions.

Raul Bettencourt: SFRH/BPD/35808/2007: Life in extreme environments: looking into innate immune reactions to understand the deep sea mussel *Bathymodiolus azoricus* physiological adaptations and survival strategies at hydrothermal vent sites.

Marina Carreiro-Silva: SFRH/BPD/34634/2007: Factors controlling carbonate production and destruction of cold-water coral reefs of the NE Atlantic.

Paolo Lambardi: SFRH/BPD/41199/2007: Migratory pattern and foraging strategies of Cory's shearwater breeding in Azores Islands: meaningful insights from oceanographic analysis.

Ralf Bublitz: GREX/IMAR/AI-001-2006: Coordination and Control of Cooperating Heterogeneous Unmanned Systems in Uncertain Environment.

### ***BCC***

Alan James Southward - Praxis XXI/BCC/7302/96 (Maio de 1997 - Janeiro de 1998).

Peter Wirtz- Praxis XXI/ BCC/ 16435/98 (Outubro de 1998 – Setembro 2001).

Mark Bolton- Praxis XXI/P/BIA/13194/98 (Janeiro 2000 – Dezembro 2001)

## **Research projects:**

### ***Regional funding***

RAA- SRAPA/ DRP 1993: Assessment and management of inshore resources. (Coordinator - contractor).

RAA- SRE/ DRT- 1995: Impact of whale watching activities on cetacean populations: assessment and regulations. (Coordinator - contractor).

RAA- SRE/ DRT 1995: TURISUB- Studies for the development of underwater tourism of the Azores. (Coordinator - contractor).

PT – POPA (since 1998): Observers program for the fisheries of the Azores. (Coordinator - contractor).

### ***National funding***

JNICT- PCIB/C/MAR/1313/92 - Reproductive biology of fishes of the Portuguese coast (Partner).

JNICT- PBICT/BIA/2055/95: PATER- Paternity and alopaternity in territorial fishes: behavioural and genetic studies (Coordinator - contractor).

FCT – PRAXIS-XXI/3/3.2/EMG/1957/95: CLIPE- Climatic effects on the ecology of littoral fishes: A geographic and phenological approach. (Coordinator - contractor).

FCT – PRAXIS-XXI/2-2.1/MAR/1748/95: AMAR: Location and characterisation of hydrothermal vents of the AMAR segment. (Partner).

FCT – PCNA/C/BIA/94/96: NEURENDO- Neuro-ethology and behavioural endocrinology of the polymorphic male sexual behaviour of the rock-pool Azorean blenny *Parablennius sanguinolentus parvicornis* (Pisces: Blenniidae). (Partner – contractor)

- FCT – POCTI/BIA/13194/1998: PAINHO - Ecology and conservation of the temporally segregated populations of the Madeiran storm petrel *Oceanodroma castro* breeding in the Azores. (Coordinator – contractor)
- ICN/FCT - PNAT/P/1999/BIA/15007: PERNA LONGA – Study on the potencial of “perna-longa” *Himantopus himantopus* as bio-indicator of mercury contamination by mercury in wetlands. (Coordinator – contractor)
- FCT – PDCTM/P/MAR/15249/1999: MAROV – Coastal marine habitats, thematic mapping of the seabed using GIS, AUV (Autonomous Underwater Vehicles) & ASV (Autonomous Surface Vehicles). (Partner - contractor).
- FCT – PDCTM/P/MAR/15281/1999/ SEAHMA – Seafloor and sub-seafloor hydrothermal modelling in the Azores sea. (Partner – Contractor)
- FCT – POCTI/BSE/41207/2001: MAREFISH: Benefits of marine protected areas: testing the theory with field experiments. (Coordinator - contractor).
- FCT – POCTI/BSE/38991/2001: CETAMARH - Ecology and population structure of bottlenose dolphins and sperm whales in the Azores: assessing the relationship with habitat features. (Coordinator - contractor).
- AdI – Agência de Inovação/ Agency of Innovation 2003: MAYA Development of a Miniaturized Autonomous Underwater Vehicle for Habitat Mapping (Partner – Contractor).
- FCT – REEQ/953/MAR/2005: Science and Technology for the Exploration of the Oceans: Towards the Development of an Environmental Laboratory in the Azores (Partner – Contractor).
- FCT - POCTI/MAR/55609/2004: RUMOS - Robotic Underwater Vehicles and Marine Animals Tracking Systems (Partner – Contractor).
- FCT – POCTI/CLI/58348/2004: PORTCOAST – Present and Future Portuguese Coastal Climate and its Impact on the Biological Communities (Partner).
- PRODESA/IFOP 2005: CEPROPESCA – Certification and Promotion of Fishing Activity and Fishing Products of the Azores. (Coordinator – Contractor).
- FCT PTDC/MAR/74071/2006: TRACE - Cetacean habitat associations in oceanic ecosystems: an integrated approach. (Coordinator – Contractor).

#### *European funding*

- INTAS-94-0592: Biogeography and biodiversity of hydrothermal vents and cold seeps: an international cooperative study. (Partner - contractor).
- MAS3-CT0040 - AMORES - Azores mid-oceanic ridge ecosystem studies: an integrated research program on deep-sea hydrothermal transfers and fluxes. (Partner).
- MAST3- CT97-0092: ASIMOV- Advanced system integration for managing the coordinated operation of robotic ocean vehicles. (Associated partner - contractor).

- LIFE98 - NAT-P-5275: MARÉ: Integrated management of coastal and marine areas in the Azores (Coordinator - contractor)<sup>3</sup>
- EVK2 - 1999 - 00250: BIOMARE: Implementation and Networking of large-scale long-term marine biodiversity research in Europe. (Partner- contractor).
- EVK3 - CT 1999 - 00003: VENTOX: Deep-sea hydrothermal vents: a natural pollution laboratory. (Partner - contractor).
- EVK3-2001-00110: M@RBLE: Electronic conference on marine biodiversity research in Europe. (Partner – contractor)
- EVK3- 2001-00177: MARBENA: Creating a long term infrastructure for marine biodiversity research in the European Economic Area and the Newly Associated States. (Partner - contractor)
- EVK3 – CT 2002 – 00073: OASIS: Oceanic Seamounts: An Integrated Study. (Partner - contractor).
- INTERREG IIIb/MAC/4.2/A2 2001: OGAMP – Management of marine protected areas in Macaronesia (Azores, Canaries and Madeira) (Coordinator – Contractor)
- FP6-GOCE-CT-2003-505342: EXOCET/D – Extreme ecosystem studies in the deep ocean: technological developments (STREP) (Partner - Contractor).
- FP6-GOCE-CT-2003-505446: MARBEF – Marine Biodiversity and Ecosystem Functioning (Network of Excellence) (Partner – Contractor).
- FP6-RTN/2003/505026: MoMARNET – Monitoring deep sea floor hydrothermal environments on the Mid-Atlantic Ridge: A Marie Curie Research Training Network (Partner – Contractor).
- INTERREG IIIb - 03/MAC/4.2/A1 2004: MARMAC – Knowledge, promotion and valorisation for a sustainable use of marine protected areas in Macaronesia. (Coordinator – Contractor).
- FP6 2003 SSP3 – P006539: EMPAFISH – European marine protected areas as tools for fisheries management and conservation. (Partner – Contractor)
- LIFE04NAT/PT/000213: Important Areas for the Marine Birds in Portugal. (Partner – Contractor)
- FP6-IST/2005/035223: GREX – Coordination and control of cooperating heterogeneous unmanned systems in uncertain environments (STREP) (Partner - Contractor).
- FP6-GOCE/2005/036851-1: ESONET/NoE – European Seas Observatory Network (Network of Excellence) (Partner – Contractor).

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<sup>3</sup> *“The project made a major contribution to the establishment of the Natura 2000 Network; its management plan preparation and implementation strategies can be used as a model for other important marine sites both in mainland Portugal and elsewhere in the EU.”* Cited from pp. 42-43 of FOCUS/LifeIII 2006. LIFE and the Marine Environment: Promoting Sustainable Management of Europe’s seas. European Commission. Office for Official Publications of the European Communities, Brussels 2006 [ISBN 92-79-03447-2]

FP6 RTN/2006/2/036186-2: FREESUBNET – A European Research Training Network on Key technologies for Intervention Autonomous Underwater Vehicles (Partner – Contractor)

INTERREG IIIb - 05/MAC/4.2/A4 2007: MARMACII – Knowledge, promotion and valorisation for a sustainable use of marine protected areas in Macaronesia. (Coordinator – Contractor).

FP7 ENV/2007/1/213144: CORALFISH – Assessment of the interaction between corals, fish and fisheries, in order to develop monitoring and predictive modelling tools for ecosystem based management in the deep waters of Europe and beyond (Partner – Contractor).

FP7 KBBE/2007/1/212881: MEFEPO – Making the European Fisheries Ecosystem Plan Operational (Partner – Contractor).

FP7 KBBE/2007/1/210496: MADE – Mitigating Adverse Ecological Impacts of Open Ocean Fisheries (Partner – Contractor).

FP7 ENV/2008/1/226354: HERMIONE - Hotspot Ecosystem Research and Man's Impact on European Seas. (Partner – Contractor).

FP7 ENV/2007/2/2.1.6/211700: CAREX – Coordination Action for Research Activities on life in Extreme Environments (Associated Partner).

#### *Other funding*

FLAD – Proc. 3.G/A-II- Proj. 242/1997: MESOPE: Biodiversity, biogeography and bioaccumulation in mesopelagic fishes of the North Atlantic: A study for Luso-American co-operation. (Coordinator - contractor).

FLAD – Proc. 3B/A.V- Proj. 79/2003: TELAZO: Effects of Marine Reserves: Bio-telemetry in the Azores. (Coordinator - Contractor).

#### Appointments:

- Representative for Portugal at the Directors Board of the “*Asociación Latinoamericana de Investigadores en Ciencias del Mar (ALICMAR)*”,
- Member of COI - Oceanographic Intersectorial Commission (COI-MCES/FCT Lisbon: appointed by the Minister of Science and Technology).
- Member of the Regional Council for Science and Technology (special appointment by the President of the Regional Government of the Azores – Ponta Delgada).
- National Delegate at the EC Committee for Research Infrastructures (6FP) (appointed by the Secretary of State for Science and Technology).
- Member of the Scientific Council for Marine Science and Technology (FCT- Ministry of Science and Higher Education, Lisbon: appointed by the Secretary of State of Science and Technology).
- Member of Panel of Marine Sciences of the Portuguese Foundation for Science and Technology, Lisbon.

- National Delegate at European Strategy Forum on Research Infrastructures (appointed by the Minister of Science and Higher Education) (2002-2005).
- Member of the Consulting Commission of the Strategic Commission of the Oceans (Portugal – Lisbon) (appointed by the President of the Regional Government of the Azores).
- Co-chair of the Deep Sea Research Group of the Ministry of Science and Technology (Lisboa) (appointed by the President of COI).
- Member of the Ad-Doc Group for Marine Research Infrastructures at the ESFRI. (2002-2003).
- Member of BIOMARE SC - Network of large-scale long-term marine biodiversity research in Europe (EU).
- Co-Chair of the Working Group on Monitoring and Observatories of InterRidge.
- Member of the Scientific Council of the National Geographic Magazine – Portugal.
- Member of MAR-ECO SC - Patterns and processes of the ecosystems of the northern mid-Atlantic (Census of Marine Life –CoML).
- Member of ChEss SC - Biogeography of Chemosynthetic Ecosystems (Census of Marine Life –CoML).
- Member of the Steering Committee of MARBEF (NoE: Marine Biodiversity and Ecosystem Functioning).

**Languages:** Portuguese (speak, read, write) English (s., r., w.), French (s., r., w.), Spanish (s., r., w.), Italian (r.).

**Grants and Fellowships:** individual short term grants received from the following institutions: Gabinete do Ministro da República para os Açores, INVOTAN (NATO), INIC, JNICT/Ciência, FCT, Fundação Calouste Gulbenkian, British Council (UK), Budensministerium für Wissenschaft und Forschung (Austria), United States Information Agency (USA), IFAW (USA), UNIVALI (Brasil), Luso-American Foundation for Development (FLAD), ICCTI (Lisboa), GRICES (Lisboa), IFREMER (Paris).

**Students supervision:** involved in the supervision of more than 15 graduation thesis, 5 MSc, 12 PhD, 18 PostDoc.

**Referee for International Journals:** referee for about 15 international scientific journals, member of the editors board of *Acta Ethologica*, *TheScientificWorld*, *Journal of Marine Biology* and *Marine Biodiversity*.

**Project evaluator/referee:** for FCT-Portugal, NERC-UK, NSF-USA, NOAA-USA, IFREMER-France, NWO & WOTRO-Holland, University of Antwerpen Research Council-Belgium, CNR-Italy, Agence Nationale de la Recherche (Institut Français de la Biodiversité)-France, Norges Forskningsråd (Research Council)-Norway

**Scientific research cruises:** RVs: *Atalante*, *Akademic Mystlav Keldish*, *Arquipélago*, *Noruega*, *G.O. Sars*. DeepSea submersibles and ROV: *Nautile*, *MIR*, *Victor 6000*, *Aglantha 2000*, *Bathysaurus 5000*.

**Scientific conferences, symposia and workshop:** speaker, invited speaker and/or organizer in/of more than 200 events.

## **Publications:**

### *ISI WEB OF KNOWLEDGE (JOURNALS WITH IMPACT FACTOR)*

102- Santos, R. S., S. Christiansen, B. Christiansen & S. Gubbay. (in press). Toward the conservation and management of Sedlo seamount: A case study. *Deep Sea Research Part II: Topical Studies in Oceanography*: (accepted July 2008).

101- Amorim, P., M. Figueiredo, M. Machete, T. Morato, A. Martins & R. S. Santos (2009). Spatial variability of seabird distribution associated with environmental factors: A case study on marine Important Bird Areas (IBAs) in the Azores. *ICES Journal of Marine Science*: doi:10.1093/icesjms/fsn175

100- Bettencourt, R., P. Dando, P. Collins, V. Costa, B. Allam & R. S. Santos (2009). Innate immunity in the deep sea hydrothermal vent mussel *Bathymodiolus azoricus*. *Comparative Biochemistry and Physiology, Part A*, 152 (2): 278-289. doi: 10.1016/j.cbpa.2008.10.022

099- Raghukumar, C., C. Mohandass, R. S. Santos, F. Cardigos, P. M. D'Costa & A. Colaço (2008). Assemblages of benthic diatoms and culturable heterotrophs in shallow water hydrothermal vent of the D. João de Castro Seamount, Azores in the Atlantic Ocean. *Current Science* (accepted 6 November 2008).

098- Riou, V., S. Halary, S. Duperron, S. Bouillon, M. Elskens, R. Bettencourt, R. S. Santos, F. Dehairs & A. Colaço (in press). Influence of CH<sub>4</sub> and H<sub>2</sub>S availability on symbiont distribution, carbon assimilation and transfer in the dual symbiotic vent mussel *Bathymodiolus azoricus*. *Biogeosciences*, 5 (6): 1681–1691.

097- Higgins, R. M., F. Vandeperre, A. Perez-Ruzafa & R. S. Santos (2008). Priorities for fisheries in marine protected area design and management: Implications for artisanal-type fisheries as found in Southern Europe. *Journal for Nature Conservation* 16 (4): 222-233. doi.org/10.1016/j.jnc.2008.09.001

096- Silva, M. A., R. Prieto, S. Magalhães, M. I. Seabra, R. S. Santos, P. S Hammond (2008). Ranging patterns of bottlenose dolphins living in oceanic waters: implications for population structure. *Marine Biology*, 156 (2): 179–192. doi 10.1007/s00227-008-1075-z

095- Quéroil, S., M. A. Silva, I. Cascão, S. Magalhães, M. I. Seabra, M. A. Machete & R. S. Santos (2008). Why do dolphins form mixed-species associations in the Azores? *Ethology*, 114 (12): 1183–1194. doi: 10.1111/j.1439-0310.2008.01570.x

094- Walton, M. J., M. A. Silva, S. M. Magalhães, R. Prieto & R. S. Santos 2008. Fatty acid characterization of lipid fractions from blubber biopsies of sperm whales *Physeter macrocephalus* located around the Azores. *Journal of the Marine Biological Association of the U.K.*, 88 (6): 223–230. doi: 10.1017/S0025315408000775

093- Martins, I., A. Colaço, P. R. Dando, I. Martins, D. Desbruyères, P.-M. Sarradin, J. C. Marques & R. S. Santos 2008. Size-dependent variations on the nutritional pathway of *Bathymodiolus azoricus* demonstrated by a C-flux model. *Ecological Modelling*, 217 (1-2) 59-71. doi:10.1016/j.ecolmodel.2008.05.008.

- 092- Costa, V., M. Magalhães, G. Menezes, M. Pinho, R. S. Santos & L. Monteiro 2008. The influence of biological and ecological factors in the specific variability of mercury bioaccumulation in marine fish species from the Azores Archipelago. *Marine Environmental Research* 66 (1): 46–46 (abstract).
- 091- Martins, I., A. Colaço, F. Lesongeur, A. Godfroy, P.-M. Sarradin, R. P. Cosson & R. S. Santos 2008. Metal exposure and physiological condition of the mussel, *Bathymodiolus azoricus*, from the Eiffel Tower hydrothermal vent site. *Marine Environmental Research* 66 (1): 42–42 (abstract).
- 090- Bettencourt, R., P. Dando, D. Rosa, A. Colaço, J. Sarrazin, P.-M. Sarradin & R. S. Santos 2008. Changes in gill tissues of the vent mussel *Bathymodiolus azoricus* held for 6 months in aquaria at atmospheric pressure. *Comparative Biochemistry and Physiology, Part A*, 150 (1): 1-7. doi: 10.1016/j.cbpa.2008.02.020.
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- 088- Afonso, P., J. Fontes, K. N. Holland & R. S. Santos 2008. Social status determines behaviour and habitat usage in a temperate parrotfish: implications for Marine Reserve design. *Marine Ecology - Progress Series*, 359: 215-227. doi:10.3354/meps07272.
- 087- Domingues, V. S., M. Alexandrou, V. C. Almada, R. Robertson, A. Brito, R. S. Santos & G. Bernardi 2008. Tropical fishes in a temperate sea: evolution of the wrasse *Thalassoma pavo* and the parrotfish *Sparisoma cretense* in the Mediterranean and the Macaronesian archipelagos. *Marine Biology*, 154 (3): 465–474. doi:10.1007/s00227-008-0941-z.
- 086- Afonso, P., J. Fontes, T. Morato, K. N. Holland & R. S. Santos 2008. Reproduction and spawning habitat of white trevally, *Pseudocaranx dentex*, in the Azores, central north Atlantic. *Scientia Marina*, 72 (2): 373-381.
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- 084- Morato, T., D. A. Varkey, C. Dâmaso, M. Machete, M. Santos, R. Prieto, R. S. Santos & T.J. Pitcher 2008. Evidence of a seamount effect on aggregating visitors. *Marine Ecology - Progress Series*, 357: 23-32. doi:10.3354/meps07269.
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- 081- Afonso, P., T. Morato & R. S. Santos 2008. Spatial patterns in reproductive traits of the temperate parrotfish *Sparisoma cretense*. *Fisheries Research*: 90 (1-3): 92–99. doi:10.1016/j.fishres.2007.09.029.
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- 077- Morato, T., P. Afonso, N. Carvalho, P. Lourinho, R.S. Santos, H.M. Krug & R.D.M. Nash 2007. Growth, reproduction and recruitment patterns of the wide-eyed flounder, *Bothus podas* Delaroché (Pisces: Bothidae), from the Azores. *Marine Biology Research*, 3 (6): 403-411. doi: 10.1080/17451000701712331
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- 074- Stefanni, S., F. M. Porteiro, R. Bettencourt, P. J. Gavaia & R. S. Santos 2007. Molecular insights indicate that *Pachycara thermophilum* (Geistdoerfer, 1994) and *P. saldanhai* (Biscoito and Almeida, 2004) (Perciformes: Zoarcidae) from the Mid-Atlantic Ridge are synonyms species. *Molecular Phylogenetics and Evolution*: 45: 423–426. doi:10.1016/j.ympev.2007.02.001
- 073- Bettencourt, R., P. Roch, S. Stefanni, D. Rosa, A. Colaço & R. S. Santos 2007. Deep sea immunity: unveiling immune constituents from the hydrothermal vent mussel *Bathymodiolus azoricus*. *Marine Environmental Research*, 64 (2): 108-127. doi:10.1016/j.marenvres.2006.12.010
- 072- Domingues, V. S., C. Faria, S. Stefanni, R. S. Santos, A. Brito & V. C. Almada 2007. Genetic divergence in the Atlantic-Mediterranean Montagu's blenny, *Coryphoblennius galerita* (Linnaeus 1758) revealed by molecular and morphological characters. *Molecular Ecology*, 16 (17): 3592-3605. doi: 10.1111/j.1365-294X.2007.03405.x

- 071- Domingues, V. S., R. S Santos, A. Brito; M. Alexandrou & V. C Almada 2007. Mitochondrial and nuclear markers reveal isolation by distance and the effects of Pleistocene glaciations in the northeastern Atlantic and Mediterranean populations of the white seabream (*Diplodus sargus*, L.). *Journal of Experimental Marine Biology and Ecology*, 346: 102–113. doi:10.1016/j.jembe.2007.03.002
- 070- Almada, V. C., V. Domingues, N. M. Monteiro, F. Almada & R. S. Santos 2007. Molecular data confirm the validity of the Portuguese blenny (*Parablennius ruber*, Valenciennes, 1836) and its presence in Western Europe. *Journal of Fish Biology*: 70 (Supplement B): 248–254. doi:10.1111/j.1095-8649.2007.01397.x
- 069- Ávila, S. P., F. Cardigos & R. S. Santos 2007. Comparison of the community structure of the marine mollusks of the “Banco D. João de Castro” seamount (Azores, Portugal) with that of typical inshore habitats on the Azores archipelago. *Helgoland Marine Research*, 61 (1): 43-53. doi 10.1007/s10152-006-0052-5
- 068- Walton, M. J., M. A. Silva, S. M. Magalhães, R. Prieto & R. S. Santos 2007. Using blubber biopsies to provide ecological information about bottlenose dolphins *Tursiops truncatus* around the Azores. *Journal of the Marine Biological Association of the U.K.*, 87 (1): 223–230. doi: 10.1017/S0025315407054537
- 067- Domingues, V. S., V. C. Almada, R. S. Santos, A. Brito & G. Bernardi 2007. Phylogeography and evolution of the triplefin *Tripterygion delaisi* (Pisces, Blennioidei). *Marine Biology*, 150 (3): 509-519. doi 10.1007/s00227-006-0367-4
- 066- Colaço, A., C. Raghukumar, C. Mohandass, F. Cardigos & R. S. Santos 2006. Effect of shallow-water venting in Azores on a few marine biota. *Cahiers de Biologie Marine*, 47 (4): 359-364.
- 065- Dixon, D. R., D. M. Lowe, P. I. Miller, G. Villemin, A. Colaço, R. S. Santos & L. R. J. Dixon 2006. Evidence for seasonal reproduction in the Atlantic vent mussel *Bathymodiolus azoricus*, and an apparent link to the timing of photosynthetic primary. *Journal of the Marine Biological Association of the UK*, 86 (6): 1363-1371.
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- 062- Ros, A., R. S. Santos & R. F. Oliveira. (2006). Regulation of immunocompetence by different androgen metabolites in a blenny with alternative reproductive tactics. *Journal of Experimental Zoology Part A: Comparative Experimental Biology*, Volume 305A, 12: 986-994.
- 061- Martins, I., V. Costa, F. Porteiro, A. Colaço & R.S. Santos 2006. Mercury concentrations in fish species caught at Mid-Atlantic Ridge hydrothermal vent fields. *Marine Ecology - Progress Series*, 320: 253-258

- 060- Martins, I., V. Costa, F. Porteiro & R.S. Santos 2006. Temporal and spatial changes in mercury concentrations in the North Atlantic as indicated by museum specimens of glacier lanternfish *Benthosema glaciale* (Pisces: Myctophidae). *Environmental Toxicology*, 21 (5): 528-532.
- 059- Kádár, E., V. Costa, R. S. Santos & J. J. Powell 2006. Tissue partitioning of micro-essential metals in the vent bivalve *Bathymodiolus azoricus* and associated organisms (endosymbiont bacteria and parasite polychaete) from geochemically distinct vents of the Mid-Atlantic Ridge. *Journal of Sea Research*, 56 (1): 45-52.
- 058- Domingues, V. S., R. S. Santos, A. Brito & V. C. Almada 2006. Historical population dynamics and demography of the eastern Atlantic pomacentrid *Chromis limbata* (Valenciennes, 1833). *Molecular Phylogenetics and Evolution*, 40 (1): 139-147.
- 057- Colaço A., I. Martins, M. Laranjo, L. Pires, C. Leal, C. Prieto, V. Costa, H. Lopes, D. Rosa, P. R. Dando & R. S. Santos 2006. Annual spawning of the hydrothermal vent mussel, *Bathymodiolus azoricus*, under controlled aquarium conditions at atmospheric pressure. *Journal of Experimental Marine Biology and Ecology*, 333 (2): 166-171.
- 056- Kádár, E., A. Lobo-Da-Cunha, R. S. Santos & P. Dando 2006. Spermatogenesis of *Bathymodiolus azoricus* in captivity matching reproductive behaviour at deep-sea hydrothermal vents. *Journal of Experimental Marine Biology and Ecology*, 335 (1): 19-26.
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Santos R. S., R.A. Patzner & J.P. Barreiros 1998: Pequenos peixes do litoral. Mundo Submerso 19: 44-47.

Santos, R. S. 1999. Jacques-Yves Cousteau - O Oceanógrafo pp. 242-244. In: VISÃO do Século - As Grandes Figuras do Mundo nos Últimos Cem Anos - Volume II (Revista Visão, Abril/ControlJornal).

Cardigos F., A. Colaço & R. S. Santos 2000. Projectos de Investigação Científica: O Caso ASIMOV. Mundo Submerso 48 (IV): 54 – 59.

Colaço A. & R. S. Santos. 2001. Oásis de vida no mar junto aos Açores. Saber Açores, nº21 Agosto 2001. 40-41

Santos, R. S. 2001. Açores, como nunca (texto sobre o livro de João de Melo “Açores, o segredo das ilhas” das Publicações D. Quixote). Jornal de Letras, Artes e Ideias, Ano XX, nº 790, de 10 a 23 de Janeiro de 2001: 7.

Santos, R.S., & F. Tempera 2003. Research and conservation in the sea of the Azores (in Portuguese). *Saber Açores*, no. 44: 62-66

Santos, R. S. 2008. Autobiografia - Eu: O Lugar dos Outros. *Jornal de Letras, Artes e Ideias*, Ano XXVIII, nº 983, de 4 a 17 de Junho de 2008: 44.

Santos, R. S., F. M. Porteiro & L. Gallagher 2008. Fish of the Azores of commercial interest (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 4<sup>th</sup> edition).

Santos, R. S., F. M. Porteiro & L. Gallagher 2008. Large Pelagic Fishes of the Azores (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 1<sup>st</sup> edition).

Santos, R. S., F. M. Porteiro, P. Afonso & L. Gallagher 2008. Coastal Fishes of the Azores (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 2<sup>nd</sup> edition).

Santos, R. S., J. Bried, M. Magalhães, P. Pedro, V. Neves & L. Gallagher 2008. Seabirds of the Azores (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 1<sup>st</sup> edition).

Santos, R. S., E. Isidro, J. Gonçalves, O. Melo, F. M. Porteiro, G. Carreira & L. Gallagher 2008. Crustacean of the Azores – of commercial interest (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 1<sup>st</sup> edition).

Santos, R. S., J. Gonçalves, M. Silva, R. Prieto, & L. Gallagher 2008. Whales and Dolphins of the Azores (English/Portuguese). *Fishpics & ImagDOP/University of the Azores* (Poster 2<sup>nd</sup> edition).

#### ***MULTIMEDIA AND TV***

PARA ALÉM DO SOL NASCENTE (Beyond the Rising Sun). 1985: Documentário televisivo com 30 minutos de duração sobre a ecologia dos Ilhéus das Formigas (Açores), com cerca de 80% de imagens sub-aquáticas. Produção: RTP-A (no. de arquivo: K 449 c). Realização: Domingos Monteiro. Autoria e Texto: Ricardo Serrão Santos que também acompanhou todas as filmagens sub-aquáticas obtidas por Paulo de Oliveira. Este documentário representou a RTP-A na I Mostra Atlântica de Televisão, tendo sido exibido em Portugal e no estrangeiro.

O MAR E A TERRA: AÇORES. 1988/89: colaboração científica nos textos de Fernando Melo, referentes às imagens sub-aquáticas, para a série realizada por António Hipólito (9 episódios).

AS FENDAS DE PANGEA por José Serra & Ricardo Serrão Santos. 1989: primeiro episódio da série: ILHAS VIVAS, co-produzida pela Rádio Televisão Portuguesa e a Universidade dos Açores, sobre a vida submarina nos Açores. Guião, autoria e textos de Ricardo Serrão Santos e participação na montagem, sonorização e filmagens sub-aquáticas obtidas por José Serra. Este documentário representou a RTP/A na V Mostra Atlântica de Televisão.

ILHAS VIVAS (Living Islands) por José Serra & Ricardo Serrão Santos. 1989/90: seis documentários sobre o meio ambiente marinho dos Açores: 1. As Fendas de Pangea; 2. Os Peixes; 3. Os Invertebrados; 4. Estudar o Litoral; 5. Reservas Marinhas; 6. As Instituições. Cada episódio tem a duração de 1/2 hora. As imagens são de José Serra, que comigo produziu, montou e sonorizou os episódios. Acompanhei, com o Norberto Serpa como assistente, as filmagens sub-aquáticas obtidas por José Serra. O guião, a autoria e a coordenação científica da série é de Ricardo Serrão Santos, e os textos de Ricardo Serrão Santos, João Gonçalves, Luís Rocha Monteiro e José Paula. A série foi estreada nos Açores em Maio 1990, com ante-estreia para convidados e imprensa no Auditório da RTP/A em Ponta Delgada. A série foi apresentada no Canal 1 da RTP entre Fevereiro e Março de 1991. O documentário sobre Os Peixes representou a RTP/A na VI Mostra Atlântica de Televisão (S. Miguel, Açores).

EXPO-SUB AÇORES/90. Organização, produção, realização e apresentação da Exposição de Fotografia Sub-Áquatica (autores: Peter Wirtz, Robert Patzner, Pedro Ré, José Paula & David Moss -fotografia- e José Serra & Ricardo Serrão Santos -video-), conjuntamente com Helena A. Isidro. A exposição, que consta de 80 fotografias, slides e video foi inaugurada em Agosto na cidade da Horta, sendo sucessivamente apresentada na Vila das Lages do Pico (Agosto), em Manchester/UK (Setembro), em Angra do Heroísmo (Novembro), Nos meses de Março/Abril 1991 foi apresentada nas cidades de Lisboa, Porto, Aveiro e Faro com o apoio especial do BRITISH COUNCIL (Lisboa). De Abril a Setembro 1991 a exposição esteve no Aquário Vasco da Gama em Lisboa. Diversos fundos e apoios foram canalizados para esta exposição.

Coordenação do diaporama para o Pavilhão dos Açores na EXPO'98 (realização AVS) 1997/98.

Coordenação do CD e do quiosque interactivo sobre Biodiversidade Marinha dos Açores para o Pavilhão dos Açores na EXPO'98 (realização Raiz Quadrada & Megamedia) 1997/98.

Coordenação dos painéis fotográficos de decoração do Pavilhão dos Açores na EXPO'98 (realização Média Imagem) 1997/98.

de la Cerda Gomes, C. & R. S. Santos (coord.) 2001. Maré Viva. Universidade dos Açores DOP. (6 TV Documentaries). VHS (30 minutes) [produced under the scope of the Life Project MARÉ]

de la Cerda Gomes, C. & R. S. Santos (coord.) 2003. Maré Viva – Integrated Management of Coastal and Marine Protected Areas in the Azores. Universidade dos Açores DOP. (6 TV Documentaries). DVD (30 minutes) (Portuguese and English) [produced under the scope of the Life Project MARÉ]

Santos, R. S., C. de la Cerda Gomes, F. M. Porteiro & L. Gallagher 2006. Virtual Center of Marine Interpretation/ Centro Virtual de Interpretação Marinha. DOP/ Universidade dos Açores (DVD) [ISBN 978-972-8612-33-7]

***LIST OF EVENTS ORGANISED IN 2006 ONLY (EXAMPLES - NOT ACTUALIZED FOR OTHER YEARS)***

MARECO/CoML - Satellite Telemetry Workshop. Centro do Mar, Horta, Faial, Azores, 30-31 January 2006

1<sup>st</sup> Workshop of the Associated Laboratory. Centro do Mar, Horta, Faial, Azores: 17 – 19 April 2006

Kick Off Meeting of GREX - Coordination and control of cooperating heterogeneous unmanned systems in uncertain environments. Centro do Mar, Horta, Faial, Azores: 12 – 14 June 2006

International Conference: The Maritime European Policy and the Regions. Sociedade Amor da Pátria, Horta, Faial, Azores, 25- 27th June 2006

EMPAFISH 3rd Sectorial Meeting WP2 – Fisheries Effects. Centro do Mar, Horta, Faial, Azores, 3- 7th July 2006

MAR-ECO/CoML (Patterns and Processes of the Ecosystems of the Mid-Atlantic Ridge) Workshop for the South-Atlantic. Balneário Camboriú, Brazil, 6-7 September, 2006

OSPAR Meeting of the Working Group on Marine Protected Areas Species and Habitats (MASH). Sociedade Amor da Pátria, Horta, Faial, Azores, 2-5 October 2006

MoMARNET Shortcourse: The hydrothermal vent mussel *Bathymodiolus azoricus*. Centro do Mar, Horta, Azores, Portugal, 30th October – 1st November.

Day of the Sea & 2nd Scientific Steering Committee Meeting LIFE IBAs (Marine Important Offshore Bird Areas in Portugal). Centro do Mar, Horta, Azores, Portugal, 16 – 18 November 2006

Annual Meeting of IMAR and Luiz Saldanha Prize. Auditório da Câmara Municipal, Vila das Lajes, Pico, Azores, Portugal, 28 – 30 November 2006.

***LIST OF TALKS IN 2006 (NOT COMPLETE)***

Santos, R. S. & A. Colaço 2006. Lucky Strike e Menez Gwen - Ecossistemas Hidrotermais Profundos. Consulta Pública. Secretaria Regional do Ambiente e do Mar, 16 Janeiro 2006. Centro do Mar, Horta, Faial, Azores, Portugal. [invited talk].

Santos, R. S. 2006. MARBENA SC meeting and Workshop, 19-20 January, 2006. Tallinn, Estonia.

Santos, R. S. 2006. OSPAR ICG Meeting on Marine Protected Areas, 24-26 January 2006. Gothenburg, Sweden.

Santos, R. S., E. Kádár, R. Bettencourt, I. Martins & Ana Colaço 2006. Research Achievements in Deep Vent Biology in Portugal at the MoMAR region: From Retrievable Cages Towards in Situ Observatories. Symposium FLAD – Luso-American Foundation for Development, 15 March 2006. Auditório da FLAD, Lisbon, Portugal. [invited talk].

Santos, R. S., P. Bernal & M Ruivo 2006. Status of the Global Oceans Agenda. Technical Working Group Meeting of the ASEM Oceans Initiative, 29-31 March 2006. Manila, Philippines. [invited talk representing IOC/UNESCO].

Santos, R. S. & DOP Team 2006. Technical and Scientific Activity 2002-2005: FCT Research Unity # 531. 1st Workshop of the Associated Laboratory, 17 – 19 April 2006. Centro do Mar, Horta, Azores, Portugal.

- Santos, R. S. 2006. Deep Sea Trawl Fisheries: Threats to Habitats and Biodiversity. Deep-Sea Conservation Coalition – Science Tour. Finish Ministry of Environment, 23 April 2006, Helsinki, Finland. [invited talk].
- Santos, R. S. 2006. Deep Sea Trawl Fisheries: Threats to Habitats and Biodiversity. Deep-Sea Conservation Coalition – Science Tour. Danish Parliament, 24 April 2006. Copenhagen, Denmark. [invited talk].
- Santos, R. S. 2006. Anthropogenic impact on deep-sea ecosystems and habitat conservation (Topic 8 of WG4). Workshop on Deep Sea-Floor Frontier: An integrated approach to study the deep sea floor and its history, 1st – 2nd June 2006. Città della Scienza, Naples, Italy.
- Santos, R. S., F. Tempera & A. Colaço 2006. Ecosistemas Hidrotermais dos Açores: Perspectivas para a sua conservação. Dia Mundial dos Oceanos, Secretaria de Estado da Defesa e Assuntos do Mar. Doca da Marinha, 8 June 2006. Lisbon, Portugal. [invited talk].
- Santos, R. S. 2006. Deep-sea Biodiversity. EEAC Biodiversity Working Group, Lisbon (CNADS), 9 June 2006. CNADS, Lisbon, Portugal. [invited].
- Santos, R. S. & DOP Team 2006. Overview of Technical and Scientific Activity FCT Research Unity # 531 and Associated Laboratory #9. GREX Kick Off Meeting, 12-15 June 2006. Centro do Mar, Horta, Azores, Portugal.
- Santos, R. S. 2006. MarinERA Work Package II Workshop, 20th – 22nd June, 2006, Mallorca, Spain.
- Santos, R. S. 2006. New Era on the Research in Chemosynthetic Ecosystems of the Deep Sea. International Conference on the Maritime European Policy and the Regions, 25-27 June 2006. Sociedade Amor da Pátria, Horta, Açores, Portugal. [invited talk].
- Santos, R. S. 2006. An Introduction to Research in Marine Conservation at DOP. 3rd Sectorial Meeting EMPAFISH WP2 – Fisheries Effects, 3-7th July 2006. Centro do Mar, Horta, Açores, Portugal.
- Santos, R. S. 2006. Short Overview of Technical and Scientific Building Capacity of the FCT Research Unit # 531 and Associated Laboratory #9. Palestra para a Escola de Altos Estudos Militares de Lisboa. 4th July 2006. DOP, Horta, Faial, Azores, Portugal.
- Santos, R. S. 2006. Ecosistemas Hidrotermais dos Açores. Emissão Filatélica dos CTT: Campos Hidrotermais Lucky Strike e Rainbow, 22nd July 2006. Auditório dos CTT, Ponta Delgada, Azores, Portugal. [invited talk].
- Santos, R. S. 2006. Threats to deep-sea ecosystems and trends for their conservation. 1st European Congress of Conservation Biology, 22 – 26 August 2006. Eger, Hungary. [invited talk].
- Santos, R. S. & O. A. Bergstad 2006. Taxonomical Challenges. Patterns and Processes of the Ecosystems of the mid-Atlantic Ridge - A South-Atlantic MAR-ECO workshop, 6-7 September 2006. Balneário Camboriu, Brazil. [co-organizers]
- Santos, R. S. 2006. The Deep-sea: Out of Sight Out of the Marine Strategy? Hearing on Marine Environmental Policy, 18 September 2006 – European Parliament, Bruxelles, Belgium. [invited talk].

Morato, T. & R.S. Santos. 2006. Conservation and management of coastal areas of the Azores. I Congress on Scuba Diving in the Azores. 27-29 October 2006, Ponta Delgada, Açores, Portugal.

Santos, R. S. et al. 2006. Recent trends in biological research and marine conservation in deep-sea vents and seamounts in the MAR region. 3rd Conference of Directors MARS, 2-3 of October 2006. Stazioni Zoologica, Naples, Italy. [invited talk].

Santos, R. S. & T. Carvalho 2006. LabHorta: A Land Based Laboratory for Deep Sea Vent Research. 3rd MarinERA Marine Infrastructure Forum – MIF. 3rd October 2006. Eden Roc Hotel, Sant Feliu de Guixols, Costa Brava, Spain. [invited talk, presented by T. Carvalho].

Santos, R. S., F. Cardigos, F. Tempera & P. Afonso 2006. GREX - Status Scenarios/User Requirements. GREX Plenary Meeting, 23rd – 25th October 2006. Tecnopolo Tiburtino, Roma, Italy.

Santos, R. S. 2006. Conservação dos Habitats e da Biodiversidade Marinha nos Açores. Zona Costeira Portuguesa – Desafios de Ordenamento e Gestão, Academia da Marinha, 26 October 2006, Lisboa, Portugal. [invited talk].

Santos, R. S. et al. 2006. Conservação dos Habitats e da Biodiversidade Marinha nos Açores. Dia do Mar & 2nd Scientific Steering Committee Meeting LIFE IBAs Marinhas Áreas Importantes para as Aves Marinhas em Portugal, 16 – 18 November 2006. Centro do Mar, Horta, Azores, Portugal.

Santos, R. S. et al. 2006. Investigação do Mar Profundo e Perspectivas para a Biotecnologia. Palestra para os Representantes da Agência de Investimento dos Açores. 23 November 2006. DOP, Horta, Faial, Açores, Portugal.

Santos, R. S. & DOP team 2006. Technical and Scientific Activity – 2006: FCT Research Unit # 531 and Associated Lab. #9. Annual Meeting of IMAR and Luiz Saldanha Prize, 28 – 30 November 2006. Auditório da Câmara Municipal, Vila das Lajes, Pico, Azores, Portugal.

#### *LIST OF TALKS IN 2007 (NOT COMPLETE)*

Santos, R. S. et al. 2007. An Ecosystem Evaluation Framework for Seamounts (based on chapter 21 of “Seamounts: Ecology, Fisheries and Conservation” by TJ Pitcher, T Morato, PJB Hart, MR Clark, N. Haggan & R Serrão Santos). Workshop on Biogeographic Classification Systems in Open Ocean and Deep Seabed Areas Beyond National Jurisdiction. 22-24 January, Universidad Nacional de Mexico, Ciudad de Mexico, Mexico (invited talk).

Santos, R. S. 2007. Recent trends in bio-technological research in deep-sea vents in the MAR region. Bi-lateral joint Workshop (Visit of the Portuguese Delegation – Under the Indo-Portuguese S&T Cooperation 18-23 March 2007). National Oceanography Institute, Dona Paula, Goa, India.

Santos, R. S. (on the behalf of MARECO Steering Group) 2007. MAR-ECO in the North Atlantic: History and Achievements. XII COLACMAR - Latin American Congress of Marine Science. 16-19 April, Florianópolis, Brazil.

- Gonçalves J. M. & R. S. Santos 2007. A Universidade dos Açores e a Investigação Científica do Mar. Jornadas Economia do Mar: Energia e Investigação Científica na Economia do Mar/ Um HYPERCLUSTER para o futuro. AORN. 20 Abril 2007. Ponta Delgada, Açores, Portugal. (Invited talk)
- Santos, R. S. 2007. Deeper than Light: Touching the Bottom of the Ocean. NATO Parliamentary Assembly Science and Technology Committee meeting. 26 May, Tecnopolo, Funchal, Madeira, Portugal invited plenary talk)
- Santos, R. S. 2007. Life Driven by Chemosynthesis: Biology and conservation in deep-sea vents in the Azores. Special Lecture Series: Inner Space. 29 May. New Bedford Whaling Museum, New Bedford, Massachusetts, USA. Plenary invited lecture)
- Santos, R. S. (on the behalf of MARECO Steering Group) 2007. MAR-ECO in the North Atlantic: history, building capacities and achievements. DEEPER THAN LIGHT: An international travelling exhibition about the deep sea. 12 June 2007, Matosinhos, Portugal (opening/inaugural speech).
- Santos, R. S. 2007. Deep-Sea Fisheries: The Hidden Dimension of the Oceans. Towards a Future Maritime Policy for the Union. PSE Hearing at the European Parliament. 14 June European Parliament, Brussels, Belgium.
- Santos, R. S. 2007. Deeper Than Light and Far From Land: Environmental Issues of the Wide European North-East Atlantic. Green Paper: Towards a Future Maritime Policy for the Union Meeting of the EPP-ED Group Bureau. 15 June, Hotel Marina, Ponta Delgada, Azores, Portugal
- Santos, R. S. 2007. Societal Impact: Management, Conservation, Protocols Update on Mid-Atlantic Ridge Marine Protected Areas. ChEss 4th Scientific Steering Committee Meeting. Celebrating 30 Years of Hydrothermal Vent Exploration. 27-29 June Puerto Ayora, Santa Cruz Islands, Galapagos, Equador.
- Santos, R. S. 2007. Deeper than light on active seafloor :New challenges on exploration and exploitation. Conference of the Peripheral Maritime Regions - Maritime Policies and Globalization: The Oceans' Contribution to Economic Growth. 9-10 July Angra do Heroísmo, Azores, Portugal (plenary)
- Santos, R. S. 2007. Montes Submarinos – Oásis do Mar Profundo. Conferência dos Oceanos – Festival dos Oceanos. National Geographic, Portugal. Oceanário de Lisboa. 4 Agosto, Lisboa, Portugal.
- Santos, R. S. & I. G. Priede 2007. Evolution of benthic ecosystems and halieutic resources. ESONET – European Seafloor Observatory NoE. All Regions Workshop. 5-7 September. Barcelona, Spain.
- Santos, R. S. et al. 2007. An Ecosystem Evaluation Framework for Seamounts (based on chapter 21 of “Seamounts: Ecology, Fisheries and Conservation” by TJ Pitcher, T Morato, PJB Hart, MR Clark, N. Haggan & R Serrão Santos). European Symposium on Marine Protected Areas. 25-28 September, Murcia, Spain.
- Machete, M & R. S. Santos 2007. Azores Fisheries Observer Program (POPA): A case study of the multidisciplinary use of observer data. 5<sup>th</sup> International Fisheries Observer Conference. 15-18 May Victoria, British Columbia, Canada.

Santos, R. S. 2007. Universidade dos Açores: Departamento de Oceanografia e Pescas. Palestra proferida na Sessão de Homenagem do Rotary Club da Horta. Centro do Mar. 23 Setembro, Horta, Açores, Portugal.

Santos, R. S. 2007. Conclusions by the Chair. Expert Workshop on Ecological Criteria and Biogeographic Classification Systems for Marine Areas in need of Protection. Convention of Biological Diversity (UNESCO). 2-4 Oct 2007, Ponta Delgada, Azores, Portugal.

Santos, R. S. 2007. DOP - Universidade dos Açores. Onde o conhecimento dos oceanos se aprofunda. Roteiro das Ciências do Mar. Presidência da República Portuguesa. 8 Outubro. Horta, Açores, Portugal.

Santos, R. S. 2007. Recent trends in bio-technological research in deep-sea vents in the Azores region. OPEN DAYS 2007. The Atlantic as a factor of competitiveness: Innovation towards the growth of the maritime sector. 11 October. Committee of the Regions, Brussels, Belgium. (invited)

Martins, A. & R. S. Santos 2007. Ocean Research Initiatives: New challenges on its exploration and exploitation... Meeting Guide CREST/ Research Working Party. 11-12 October Ponta Delgada, Azores, Portugal (invited)

Santos, R. S., M. Machete & C. Dâmaso 2007. Uma Parceria para a Promoção da Sustentabilidade das Pescaria de Atum nos Açores. I Congresso International do Atum. 14-15 Outubro, Ponta Delgada, Açores, Portugal (Invited – with simultaneous translation)

Santos, R. S. 2007. Recent trends in biological research and conservation in deep-sea vents at the Mid-Atlantic Ridge. SEMINAR: An European Perspective on Environmental and Scientific Issues of the North Atlantic. Parliamentary Assembly of the European Council. 18 October, Ponta Delgada, Azores, Portugal.

Santos, R. S. 2007. Nova Era na Investigação dos Sistemas Quimossintéticos do Mar Profundo. BIOPerspectivas. IX Jornadas de Biologia Aplicada. 25-27 de Outubro. Universidade do Minho, Braga, Portugal.

Santos, R. S. 2007. Challenges of conservation and sustainable use of deep-sea and high seas ecosystems. Life on the Blue Planet – Biodiversity Research and the new European Marine Policies. Portuguese EPBRS meeting. 6-9 November Porto, Portugal. (plenary)

Santos, R. S. & T. Morato 2007. Conservation and utilization of biodiversity on seamounts. 5th Trondheim Conference on Biodiversity Ecosystems and People - biodiversity for development - the road to 2010 and beyond. 28 October to 2 November, Trondheim, Norway. (plenary)

Santos, R. S. 2007. L' Atlantique et la Méditerranée. Colloque International Euro-Méditerranée: Construire ensemble les réponses scientifiques aux défis posés par la mer Méditerranée. 20-21 November, Toulon, France (opening speech).

Santos, R. S. 2007. CBD Expert's Workshop on ABNJ - De-briefing of meeting. Europa Nature Directors Meeting. 29-30 November. Calouste Gulbenkian Foundation. Lisboa. Portugal.

***LIST OF TALKS IN 2008 (NOT COMPLETE)***

Santos, R. S. & T. Morato 2008. The Ecology and Management of Seamounts. Coastal Futures 2008. Review and Future Trends. (Coastal Management for Sustainability). 22<sup>nd</sup> – 24<sup>th</sup> January, SOAS, London, UK. (invited plenary lecture)

Sirjacobs, D., F. Tempera, F. Cardigos, R. S. Santos, J.-M. Bouquegneau 2008. Underwater imagery, a measuring tool to extend the spatio-temporal understanding of benthic organisms dynamics: case study of a 2-year long monitoring of the macroalgae *Codium elisabethae* in the Azores (poster). OCEAN OPTICS CONFERENCE, 6<sup>th</sup> – 10 October, Il Ciocco Hotel, Castelvechio Pascoli, Italy.

## *Resumo em Português*

Ricardo Serrão Santos, Doutor em Biologia e Ecologia Animal, é Investigador Principal na Universidade dos Açores, Director do Departamento de Oceanografia e Pescas, Pró-Reitor da Universidade dos Açores e Presidente do IMAR- Instituto do Mar. RSS tem-se dedicado ao estudo da biodiversidade marinha e dos ecossistemas oceânicos. Tem mais de 300 trabalhos publicados, dos quais cerca de 100 artigos científicos incluídos no sistema da *Web of Knowledge*. É co-editor do livro “*Seamounts: Ecology, Fisheries and Conservation*” publicado pela Blackwell em 2007 e co-autor do “Centro de Interpretação Marinha Virtual (CIMV)”, que, além da sua base permanente, foi também editado em DVD em 2007 e re-editado em 2008. RSS tem supervisionado vários estudantes de doutoramento e investigadores de Pós-Doutoramento. Participa em numerosos e conferências, quer como participante, palestrante convidado, organizador e/ou *chair*. Em Outubro 2007 foi *chair* do “*Expert Workshop on Ecological Criteria and Biogeographic Classification Systems for Marine Areas in Need of Protection*” organizado no âmbito da CBD (*Convention of Biological Diversity*). Os resultados deste encontro oficial da CBD foram adoptados na reunião de COP9 em Maio 2008 como “critérios Açores”. Em 2008 foi convidado pelo Marine Board da European Science Foundation para co-chair do “*Working Group on Science dimensions of Ecosystem Approach to Management of Biotic Ocean Resources*” (MB-ESF, ICES, EFARO).

Os interesses actuais de Ricardo Serrão Santos incluem a conservação dos habitats e da biodiversidade marinhos dos ecossistemas de litoral e mar profundo da região dos Açores, implementação de Áreas Marinhas Protegidas e avaliação dos seus benefícios. RSS coordenou a investigação e as propostas de gestão para a rede Natura 2000 nos Açores e para os campos hidrotermais do mar profundo Lucky Strike, Menez Gwen, Rainbow e do monte submarino Sedlo, os quais foram propostos por Portugal para integrarem a Rede de Áreas Marinhas Protegidas da OSPAR. Em 2002 foi-lhe atribuído pela WWF o galardão “*Gift to the Earth*”; em 2007 RSS foi nomeado “Embaixador Marítimo” pela Comissão Europeia; em 2008 foi convidado pelo Governo Português como uma das duas “personalidades de reconhecido mérito” e nomeado para a direcção do “Fórum Permanente dos Assuntos do Mar”; em 2008 recebeu o Prémio *Rotary* 2007-2008 no domínio do Ensino; em 2008 foi nomeado Membro Correspondente da Academia da Marinha; em 2009 é-lhe atribuído, pelo jornal “*Ciência Hoje*” o prémio “*Seeds of Science*” na categoria de “Ciências da Terra, do Mar e da Atmosfera”.

## *Perfil e Resumo Alargado em Português*

Ricardo da Piedade Abreu Serrão Santos (RSS) nasceu em Portalegre a 11 de Outubro de 1954. É casado com uma açoriana da ilha de S. Miguel (Maria João Viveiros), tem dois filhos e vive na Horta (Faial) há vários anos.

RSS Estudou Psicologia e Ecologia Comportamental no Instituto Superior de Psicologia Aplicada (ISPA) em Lisboa e doutorou-se em Biologia na Faculdade de Ciências da Universidade de Liverpool no Reino Unido em 1992. É Investigador Principal e Director do Departamento de Oceanografia e Pescas da Universidade dos Açores desde 1997. É o actual o Presidente do IMAR - Instituto do Mar e membro do Conselho Co-ordenador de um Laboratório Associado (Instituto de Sistemas e Robótica). Em 2003 foi nomeado Pró-Reitor da Universidade dos Açores, cargo que mantém até à data.

Tem desenvolvido actividade docente desde que terminou a licenciatura, com especial incidência no ensino da etologia, ecologia comportamental, biodiversidade e conservação do ambiente marinho, e em particular no âmbito de pós-graduações, estando envolvido na orientação/supervisão de cerca de 15 teses de doutoramento e 12 programas de pós-doutoramento, para além de diversos mestrados.

Os seus trabalhos de investigação iniciais foram desenvolvidos no âmbito de estudos dos comportamentos de reprodução e acasalamento em peixes territoriais. Nesse contexto fez descobertas inovadoras sobre estratégias alternativas de acasalamento e cuidados parentais utilizando como modelo peixes marinhos. Os resultados desta investigação têm vindo a ser publicados em revistas científicas internacionais e cobrem domínios que vão deste a ecologia comportamental e etologia até ao estudo da genética das tácticas alternativas de acasalamento dos peixes, dos seus determinantes neuro-fisiológicos e endocrinológicos e das consequências em termos de imuno-competência.

Mas desde há já alguns anos que se dedicada fundamentalmente ao estudo e ensino de pós-graduação sobre a biodiversidade e conservação do ambiente marinho, tendo em 1995 publicado um artigo de síntese sobre a investigação e conservação do ambiente marinho nos Açores na revista científica *Aquatic Conservation*, que actualmente constitui uma referência incontornável e influenciou a estratégia de conservação do ambiente marinho na região dos Açores.

Ricardo Serrão Santos é autor e/ou co-autor de mais de 300 trabalhos publicados, dos quais cerca de 100 artigos científicos incluídos no sistema da *Web of Knowledge*, incluindo capítulos de livros, livros e CDs/DVDs, donde se destacam a co-edição/co-autoria do livro “*Seamounts: Ecology, Fisheries and Conservation*” publicado pela *Blackwell Publishing* (Oxford, UK; Iowa, USA; Victoria, Australia [ISBN: 978-1-4051-3343-2]) e a co-autoria do “*Virtual Centre of Marine Interpretation (CIMV)* [ISBN 978-972-8612-33-7]”, o qual, para além da base na Horta, foi editado em DVD, ambos em 2007.

Integra e coordena numerosos projectos de investigação nacionais e internacionais, entre os quais se destaca a participação nos comités coordenadores da Rede de Excelência da União Europeia em Biodiversidade e Funcionamento de Ecossistemas (MARBEF) e de dois programas da iniciativa internacional *Census of Marine Life*. Tem larga experiência em cruzeiros científicos oceânicos (R/Vs: Atalante, Akademik Mystlav Keldish, Arquipélago, Noruega, G.O. Sars), incluindo a utilização de submersíveis de investigação (Nautile, MIR, Victor 6000, Aglantha 2000, Bathysaurus 5000).

É membro dos conselhos de editores das revistas científicas *Acta Ethologica* (Springer Verlag) e *TheScientificWorld* ([www.thescientificworld.com](http://www.thescientificworld.com)), *Journal of Marine Biology* e *Marine Biodiversity* e revisor (*referee*) de diversas revistas científicas internacionais. Tem sido convidado regularmente para painéis de avaliação de entidades governamentais de financiamento científico do Reino Unido (NERC), EUA (NSF), França (IFREMER), Bélgica, Holanda, Itália e Noruega. É convidado anualmente para participar em dezenas de conferências científicas e de coordenação de actividades científicas.

Ricardo Serrão Santos é/foi delegado nacional para o Comité de Infra-estruturas de Investigação da Comissão Europeia, Membro do Fórum Estratégico Europeu para as Infra-estruturas de Investigação (ESFRI), coordenador do Grupo de Trabalho de Monitorização e Observatórios do InterRidge. Entre outras comissões e conselhos nacionais, pertence ao Conselho Científico das Ciências do Mar e do Ambiente do MCTES e é o coordenador nacional para a Cooperação Científica entre Portugal e a França em Ciências do Mar (MCTES/FCT). Participou também na Comissão Estratégica dos Oceanos

Em 2002 foi homenageado com um *Gift to the Earth* pela World Wildlife Fund (WWF - Internacional), pelas suas contribuições para o estudo e conservação dos ecossistemas hidrotermais de profundidade. Em 2007 foi convidado pelo Comissário Europeu Joe Borg para Embaixador Marítimo para a Estratégia Marítima Europeia. Em 2008 foi uma das duas personalidades de elevado mérito nomeadas pelo Ministério da Defesa e Assuntos do Mar para integrar a direcção do “Fórum Permanente para os Assuntos do Mar”. Também em 2008 recebeu o Prémio *Rotary* 2007-2008 na área da educação e ensino. Em 2008 foi nomeado Membro Correspondente da Academia da Marinh. Em 2009 é-lhe atribuído, pelo jornal “Ciência Hoje”, o prémio “Seeds of Science” na categoria de “Ciências da Terra, do Mar e da Atmosfera”.

Escreveu diversos textos de divulgação científica e educação ambiental incluindo programas de televisão sobre a vida marinha (e.g. Para Além do Sol Nascente em 1986, Ilhas Vivas em 1989). Coordenou os conteúdos do Pavilhão dos Açores na Expo 98. O seu perfil foi traçado no número inaugural da revista *National Geographic*- Portugal (Fevereiro 2000), para cujo Conselho Científico foi convidado. Em 2004 foi considerado pelo semanário Expresso uma das oito personalidades que têm projectado Portugal como nação oceânica da Europa.

Ricardo Serrão Santos tem participado ao longo dos anos em diversos cruzeiros científicos donde se destacam os que envolveram os submersíveis de investigação *Nautilus* da França, e os *MIR* da Rússia, com mergulhos a 2000 metros de profundidade. Em 2005 foi convidado pelo realizador James Cameron para se associar à equipa que filmou os ecossistemas hidrotermais de profundidade para o filme/documentário “*Aliens of the Deep*”.

Os interesses actuais em investigação e ensino envolvem a conservação dos habitats e biodiversidade em ecossistemas litorais e do mar profundo na região dos Açores e Dorsal Média Atlântica, a implementação de Áreas Marinhas Protegidas e avaliação dos seus benefícios, mas também a investigação experimental com organismos do oceano profundo em condições controladas no LabHorta. Com a sua actividade nesta área, e no âmbito dos projectos que coordena e em que participa, contribuiu para que a Universidade dos Açores tenha atingido a 19ª posição a nível mundial na investigação em “ecossistemas hidrotermais” (estatísticas do *Web of Knowledge*: [www.isiknowledge.com](http://www.isiknowledge.com) para os anos 2000-2008), e Portugal o 8º lugar.

RSS co-ordenou a investigação conducente aos planos de gestão para a Rede Natura 2000 nos Açores e arquipélagos Macaronésicos. Actualmente coordena diversos projectos de investigação e programas de pós-graduação (doutoramento e pós-doutoramento) que envolvem

estudos de telemetria acústica e de satélite em peixes, aves e cetáceos no âmbito do estudo dos benefícios das áreas marinhas protegidas e gestão espacial.

RSS está rodeado por uma equipa de jovens doutorandos e pós-doutorados muito motivada e competente que mantém uma visão moderna e actualizada da investigação multidisciplinar e que cultiva a cooperação nacional e internacional.