

Sandra Hochscheid

Born in Mühlheim a. d. Ruhr (Germany) on the 13/04/1973

Tel.: +39 081 5833222

Fax: +39 081 7641294

E-mail: sandra.hochscheid@szn.it

Current Position: Technologo III° livello, Technologist

Current Affiliation:

Section Research Infrastructures for Marine Biological Resources, Stazione Zoologica Anton Dohrn, Napoli (Italy) and Head of Aquarium Unit

Education/Training/Experience

Institute and Location	Degree (if applicable)	Year	Field of Study
Phillipps Universität Marburg, Germany	Vor-Diplom	1992-1994	zoology, botany, physics and chemistry
Christian-Albrechts-Universität Kiel, Germany	Diplom (Laurea)	1994-1998	biological oceanography, zoology, and physical oceanography
University of Aberdeen, Scotland	Ph.D.	1999-2003	Zoology; thesis: Thermoregulation, Metabolism and Buoyancy Regulation in Sea Turtles
University of Aberdeen, Scotland	Part-time research assistant	2000-2001	Physiology of Loggerhead turtles; metabolism of mice in obesity study
University of Capetown, South Africa	Research Assistant	2000 (1 month)	Pilot study on the use of GPS data loggers on Cape gannets; thermoregulation of Cape gannets
University of Queensland, Heron Island Research Station, Australia	Research Assistant	2001 (1 month)	field metabolic rates of green turtles using the Doubly Labelled Water technique
School of Biological Sciences, University of Wales Swansea, U.K.	Research Officer (2 months) and Honorary Research Associate (post-doc)	2004-2005	Allometric scaling of buoyancy control and diving performance in loggerhead turtles

Stazione Zoologica Anton Dohrn, Napoli, Italy	Technologo	2001 - present	Sea turtle biology and conservation; Husbandry and welfare of marine animals
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Appointments and awards

- 2015 – present: Head of Aquarium Unit
 2015 – present: Coordinator of SZN Outreach Committee
 2015 – present: Member of IUCN – Species Survival Commission - Marine Turtle Specialist Group
 2014 – present: Member of SZN - Animal Welfare Committee (*Organo Benessere Animale*)
 2013 – present: Scientific coordinator for marine turtle rescue, rehabilitation and research
 2012 – present: Assistant Editor for Chelonian Conservation & Biology
 2008 – 2012: Member of Editorial Board of the journal Chelonian Conservation & Biology

Other

- 2012 – present: Member of *Societas Herpetologica Italica* (S.H.I.)
 2011: Coordinator of the Scientific Programme for the *4th Mediterranean Conference on Marine Turtles*, Napoli 7-10 November 2011
 2008 – present: Member of Program Committee of 28th, 29th, 31st and 35th International Sea Turtle Symposium
 1999 – 2011: Member of Association for the Study of Animal Behaviour (ASAB), UK
 2000 Member of European Doctoral College, Strasbourg, France

Students' Supervision

PhD supervisor of one Ph.D. student and Tutor of 5 degree theses and 1 European Master thesis

Publications

Author of 29 publications in peer-reviewed scientific journals (of which n= 27 ISI); 2 book chapters; 2 technical reports

List of publications of the last 10 years

- Hochscheid S. (2014). Why we mind sea turtles' underwater business: A review on the study of diving behavior. *Journal of Experimental Marine Biology and Ecology*, 450, 118-136.
- Clusa M., Carreras C., Pascual M., Gaughran S.J., Piovano S., Giacoma C., Fernández G., Levy Y., Tomás J., Raga J.A., Maffucci F., Hochscheid S., Aguilar A., Cardona L. (2014). Fine-scale distribution of juvenile Atlantic and Mediterranean loggerhead turtles (*Caretta caretta*) in the Mediterranean Sea. *Marine Biology*, 161(3), 509-519.

- Casale P., Freggi D., Maffucci F., Hochscheid S. (2014). Adult sex ratios of loggerhead sea turtles (*Caretta caretta*) in two Mediterranean foraging grounds. *Scientia Marina*, 78(2), 303-309.
- Hochscheid S., Travaglini A., Maffucci F., Hays G.C., Bentivegna F. (2013). Since turtles cannot talk: what beak movement sensors can tell us about the feeding ecology of neritic loggerhead turtles, *Caretta caretta*. *Marine Ecology*, 34(3), 321-333.
- Cheng I.-J., Bentivegna F., Hochscheid S. (2013). The behavioural choices of green turtles nesting at two environmentally different islands in Taiwan. *Journal of Experimental Marine Biology and Ecology*, 440, 141-148.
- Maffucci F., D'Angelo I., Hochscheid S., Ciampa M., De Martino G., Travaglini A., Treglia G., Bentivegna F. (2013). Sex ratio of juvenile loggerhead turtles in the Mediterranean sea: is it really 1:1? *Marine Biology* 160(5), 1097-1107.
- Maffucci F., Annona G., de Girolamo P., Bologna M.A., Meomartino L., Montesano A., Bentivegna F., Hochscheid S. (2013). Bone density in the loggerhead turtle: functional implications for stage specific aquatic habits. *Journal of Zoology*, 291(4), 243-248.
- Saied A., Maffucci F., Hochscheid S., Dryag S., Swayeb B., Borra M., Ouerghi A., Procaccini G., Bentivegna F. (2012). Loggerhead turtles nesting in Libya: an important management unit for the Mediterranean stock. *Marine Ecology Progress Series*, 450, 207-218.
- Bentivegna F., Ciampa M., Hochscheid S. (2011). The presence of the green turtle, *Chelonia mydas*, in Italian coastal waters during the last two decades. *Marine Turtle Newsletter*, No. 131, 41-46.
- Hochscheid S., Bentivegna F., Hamza A., Hays G.C. (2010). When surfacers do not dive: Multiple significance of extended surface times in marine turtles. *Journal of Experimental Biology*, 213, 1328-1337.
- Hochscheid S., Bentivegna F., Hays G.C. (2005). First records of dive durations for a hibernating sea turtle. *Biology Letters* 1, 83-87.
- Bentivegna F., Rasotto M.B., De Lucia G.A., Secchi E., Massaro G., Panzera S., Caputo C., Carlino P., Treglia G., Hochscheid S. (2010). Loggerhead turtle (*Caretta caretta*) nests at high latitudes in Italy: a call for vigilance in the Western Mediterranean. *Chelonian Conservation and Biology*, 9(2), 283-289.
- Marschang R.E., Papp T., Ferretti L., Hochscheid S., Bentivegna F. (2009). Detection and partial characterization of herpesvirus from Egyptian tortoises (*Testudo kleinmanni*) imported into Italy from Libya. *Journal of Zoo and Wildlife Medicine*, 40(1), 211-213.
- Sénégas, J.-B., Hochscheid S., Groul J.-M., Lagarrigue B., Bentivegna F. (2008). Discovery of the northernmost loggerhead turtle *Caretta caretta* nest. *JMBA2 - Biodiversity Records*, ref. No. 6269, DOI:10.1017/S1755267209000773
- Hochscheid S., Bentivegna F., Bradai M.N., Hays G.C. (2007). Overwintering behaviour in sea turtles: dormancy is optional. *Marine Ecology Progress Series* 340:287-298.

- Bentivegna F., Valentino F., Falco P., Zambianchi E., Hochscheid S. (2007). The relationship between loggerhead turtle (*Caretta caretta*) movement patterns and Mediterranean currents. *Marine Biology* 151:1605-1614.
- Hochscheid S., McMahon C.R., Maffucci F., Bradshaw C.J.A., Bentivegna F., Hays G.C. (2007). Allometric scaling of lung volume and its consequences for marine turtle diving performance. *Comparative Biochemistry and Physiology Part A* 148:360-367.
- Hochscheid S., Bentivegna F., Hays G.C. (2005). First records of dive durations for a hibernating sea turtle. *Biology Letters* 1, 83-87.
- Hochscheid S., Maffucci F., Bentivegna F., Wilson R.P. (2005). Gulps, wheezes and sniffs: how measurements of beak movement in sea turtles can elucidate their behaviour and ecology. *Journal of Experimental Marine Biology and Ecology* 316(1), 45-53.
- Bentivegna F., Treglia G., Hochscheid S. (2005). The first report of a loggerhead turtle *Caretta caretta* nest on the central Tyrrhenian coast (Western Mediterranean), JMBA2 - Biodiversity Records, ref. No. 5143, pp. 1-3.
- Hochscheid S., Bentivegna F., Speakman J.R. (2004). Long-term cold acclimation leads to high Q10 effects on oxygen consumption of loggerhead sea turtles, *Caretta caretta*. *Physiological and Biochemical Zoology* 77(2), 209-222.

Book chapters:

- Giacoma C., Balletto E., Bentivegna F., Guarino F.M., Hochscheid S., Maio N., Mingozi T., Piovano S., Scaravelli D. (2011). *Caretta caretta*. In: Corti C., Capula M., Luiselli L., Razzetti E., Sindaco R. (Eds.) *Fauna d'Italia*. Vol. XLV. Reptilia, Calderini, Bologna., pp. 201-219. ISBN: 978-88-506-5390-4
- Hochscheid S., F. Bentivegna, G.C. Hays (2008). Winter ecology and physiology of sea turtles. Ch 27 in Lovegrove, B.G. & McKechnie, A.E. (Eds.) *Hypometabolism in animals: hibernation, torpor and cryobiology*. University of KwaZulu-Natal, Pietermaritzburg, South Africa.

Technical Reports:

- Rossi L., Luschi P., Casale P., Hochscheid S., Angelini V., Vallini C., Insacco G. (2013). MSFD Supporting document on the methodology and data used for the definition of marine distribution of *Caretta caretta* based on satellite telemetry data. ISPRA 2013