



Dr. John Henrik Stahl

Curriculum Vitae



Personal Details

Name: Dr. John Henrik Stahl
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Academic Qualifications

PhD: Marine Biogeochemistry, Gothenburg University, 2001, Sweden
BSc & MSc: Marine Biology, from Gothenburg University, 1996, Sweden

Employment History

- 2023-current: University of Khorfakkan (UKF), Sharjah, United Arab Emirates – Acting Dean of College of Marine Sciences and Aquatic Biology, and Head of Research and Innovation for Sharjah Marine Science Research Centre.
- 2014-2022: Zayed University (ZU), Dubai, United Arab Emirates – Associate Dean for College of Natural and Health Sciences
- 2007-2014: Scottish Association for Marine Science (SAMS), Oban, Scotland, UK – Principal Investigator and Lecturer in Marine Biogeochemistry
- 2003-2006: Copenhagen University, Marine Biological Laboratory Helsingør (MBL), Denmark – Postdoc Application of Marine Microsensor Technology for Marine Biogeochemical Studies
- 2001-2002: Gothenburg University, Dept. Analytical and Marine Chemistry (AMC), Sweden – Teaching & Research Assistant in Marine Chemistry/Marine Biogeochemistry

Professional Membership & Activities

- Marine Biological Association UK (<https://www.mba.ac.uk/>)
- Challenger Society for Marine Science (<https://www.challenger-society.org.uk/>)
- Scottish Association for Marine Science (<https://www.sams.ac.uk/>)
- National Marine Educators Association (<https://www.marine-ed.org/>)
- Emirates Diving Association (<https://www.emiratesdiving.com/>)
- Dubai Natural History Group (<https://www.dnhg.org/>)

Teaching Experience

- >20 years of experience as lecturer on marine- and environmental science undergraduate courses (e.g. Introduction to Oceanography; Marine Ecology; Marine Chemistry; Marine & Estuarine Systems; Marine Technology, Marine Biogeochemistry; Sediment Processes; Environmental Chemistry; Principles of Sustainability; Energy and Sustainability; Environmental Hazards; Environmental Policy and Economics; Internships)
- Undergraduate supervisor for numerous Senior Research Projects (ZU, MBL, GU) and Honors Thesis Projects (SAMS)
- Postgraduate supervisor for 5 PhD students (SAMS) and 10 MSc students (SAMS & MBL)
- Extensive experience in curricular development and program accreditation

Conferences & Workshops

- Stahl, H., Alnaqbi, A.H., (2025) University of Khorfakkan and the Blue Future: Pioneering marine conservation in Sharjah and UAE. United Nations Ocean Conference, Nice, 7th July, 2025, (Archipel Pavillion, Green Zone).
- Stahl, H., (2025) Bio-Robotics – the Future of Marine Research. United Nations Ocean Conference, Nice, 7th July, 2025, (Archipel Pavillion, Green Zone).
- Stahl, H., Seveso, D., Landes, A., Galli, P., Montalbetti, E., Louis, Y. (2024) First Recorded Outbreak of Crown-Of-Thorns seastars (*Acanthaster spp.*) in the Gulf of Oman, UAE. Gulf4 Conference, UAEU, Al Ain, 26-28 November 2024
- Enrico Montalbetti, Daniela Gaglio, Tecla Aramini, Marcella Bonanomi, John Henrik Stahl, Ally Landes, Yohan Didier Louis, Davide Seveso, Paolo Galli (2024) Metabolomics reveals distinct phenotypical traits across different population densities of Crown-Of-Thorns seastars (*Acanthaster planci*) in the Gulf of Oman (United Arab Emirates). Gulf4 Conference, UAEU, Al Ain, 26-28 November 2024
- Stahl, H. (2024) Advancing Marine Carbon Capture and Its Role in Sustainable Oceans: Integrating Technologies for detection CO₂ leaks in the marine environment. IROS Conference, Khalifa University, Abu Dhabi, 14-18 October 2024
- Stahl, H (2023) Seagrass Workshop for UAE Schools, Greening Education Hub, COP28, Dubai EXPO, December 11th, 2023, UAE
- Stahl, H (2023) Science, The Ocean, and Children's Voices, We Are the Possible, COP28, Mohammed Bin Rashid Library, December 7th, 2023, UAE
- Stahl, H (2020) Need for Coral Reef Conservation in the Arabian Gulf: Options and Possible Solutions. Coral Reef Restoration in Arabian Gulf Workshop, Zayed University

October 2020, UAE

- Stahl, H., Alblooshi, L., Aljaberi, S., Aldheiri, A., Almemari M. (2019) Coral Propagation in the Arabian Gulf, BlueTech Exhibition, Ocean Summit, 5-7 March, Abu Dhabi, UAE
- Puill-Stephan, E., Stahl, H., Abrego, D. (2019) Coral Restoration and Propagation in the Arabian Gulf, BlueTech Exhibition, Ocean Summit, 5-7 March, Abu Dhabi, UAE
- Mohamed, S., Alblooshi, L., Stahl, H. (2019) The Effect of elevated Light and Temperature on the health of the coral *Platygyra daedalea* (Arabian Gulf, UAE), 6th CNHS Annual Undergraduate Research Forum (1st Prize for best presentation), 26th April 2019, Zayed University, Abu Dhabi, UAE
- Mohamed, S., Alblooshi, L., Stahl, H. (2019) The Effect of elevated Light and Temperature on the health of the coral *Platygyra daedalea* (Arabian Gulf, UAE), 5th Annual Undergraduate Student Research Conference 24th April 2019, United Arab Emirates University (UAEU), Abu Dhabi, UAE
- Stahl, H.; Puill-Stephan, E.; Abrego, D.; Howari, F. (2018) Helping to restore the coral reefs of the Arabian Gulf through sexual and asexual coral propagation. GULF3 conference, Nov 5-7, UAEU, Al Ain, UAE
- Stahl, H.; Puill-Stephan, E.; Abrego, D. (2018) Helping the Arabian Gulf Corals to Adapt to future environmental conditions. 2nd Global Adaptation Network Forum, March 20th, Radisson Blue, Yas Island, Abu Dhabi.
- Stahl, H. (2017) Effects of CO₂ leakage on a shallow seabed ecosystem: physical migration and biogeochemical impacts. ZU lecture series
- Stahl, H. (2016). Chemical transformations in shallow sediments associated with leakage. Risk Management Network and Environmental Research Network Combined Meeting – Offshore and Onshore Advances, Southampton, United Kingdom
- Rovelli, L., K. M. Attard, K. Hancke, H. Stahl, M. Trimmer, R. N. Glud (2015) Seasonal changes in reach-scale stream metabolism over different geologies. ASLO; Grenada, Spain
- Taylor, P. J.; Stahl, H.; Hicks, N.; Vik, U.; Jakobsen, K.; (2015) Changes in sediment biogeochemistry when exposed to Carbon Dioxide in a simulated leak from a sub-seabed Carbon Capture Storage reservoir (Abstract ID: 26813) ASLO; Grenada Spain
- Tait, K.; Stahl, H.; Taylor, P.; Watanabe, Y.; Hayashi, M.; Widdicombe, S. (2015) Investigation of the impact of a controlled sub-seabed release of CO₂ on microbial communities (Abstract ID: 27111) ASLO; Grenada, Spain
- Currie, A. R.; Stahl, H. (2014) Rates of benthic denitrification and anamox under present and future ocean acidification and temperature conditions (Abstract ID: 13271) ASLO, Honolulu, USA
- Ingels, J.; Dashfield, S.; Widdicombe, S.; Stahl, H.; Blackford, J.; Meio- and micro-benthic response to CO₂ release in coastal sediments: investigating impacts of potential leakage in CCS systems. (Abstract ID: 16109) ASLO, Honolulu, USA
- Stahl H. (2013) 'The effects of a CO₂ leakage event of benthic biogeochemistry – results from a controlled in situ release experiment'. Keynote presentation at 'Marine Biogeochemistry: Past, Present and Future' AMBIO conference in Leeds, UK.
- Stahl H., James R., Lichtschlag A., Alker B., Taylor P., Connelly D. (2013) 'Effects of CO₂ leakage on benthic biogeochemistry - initial findings from the QICS in situ release experiment'. Invited oral presentation at the I2CNER International Workshop: CO₂

separation and Concentration & Carbon Capture and Storage, 31 January, Fukuoka, Japan. (Oral, invited)

- Ingels J., Dashfield S., Widdicombe S., Stahl H., Blackford J. (2013) Meiofauna results from world's first in-situ sub-seabed CO₂ release experiment to assess potential impact of CO₂ leakage in CCS systems. Abstract for 15th International Meiofauna Conference in Korea 2013
- Lichtschlag A., Connelly D., Stahl H., Taylor P., James R.A. (2013) Effects of CO₂ leakage on benthic biogeochemistry – Results from a large-scale field experiment. Abstract for Goldschmidt conference 2013 in Florence, Italy.
- Currie A., Hicks N. and H. Stahl (2012) Effects of ocean acidification on benthic oxygen dynamics in muddy and sandy sediments. Ocean in a High CO₂ World, Monterey, California, US (Poster)
- Donohue P.J., Stahl H., Roberts M., Cusack M. Kamenos N. (2012) Synergistic effects of temperature and pCO₂ on the protein profile of the calcifying red alga, *Lithothamnion glaciale* Presentation and proceedings from Ocean Sciences meeting in Salt Lake City, Utah, US.
- Hicks N., Currie A., Defew E., Patterson D. and H. Stahl (2012) Effects of Ocean Acidification on Benthic Biogeochemistry and Primary Production. Ocean in a High CO₂ World, Monterey, California, US (Oral)
- Donohue P.J., Stahl H., Roberts M., Cusack M. Kamenos N. (2012) Applications of proteomics to assess the synergistic effects of elevated temperature and ocean acidification on red coralline algae. IV International Rodolith Workshop, Granada, Spain.
- Stahl H. (2010) Aanderaa workshop about ocean Observatories. Bergen, Norway (Oral, invited)
- Stahl H., RN Glud, W Davison, KW Warnken and H Zhang (2009) A new sensor for simultaneous imaging of 2-D oxygen and trace metal dynamics in irrigated sediments. ASLO, Nice, France. (Poster)
- Stahl H. and R.N. Glud (2007). An autonomous in situ planar optode module: A useful tool for studying 2D distributions of oxygen and pH in marine benthic environments. ASLO- conference, Santa Fe, New Mexico, USA. (Poster)
- Stahl H. and R.N. Glud (2005) Two dimensional optical pH measurements in marine bioturbated sediments. ASLO, Santiago de Compostela, Spain. (Poster)
- Stahl H. and R.N Glud (2005) Two dimensional optical measurements of oxygen and pH in marine bioturbated sediments. Svenska Havsforskar Föreningen, Helsingborg, Sweden (Oral, invited)
- Stahl H. (2005) Measurements of oxygen at high temporal and spatial resolution in marine sediments. TREAD-workshop, Bremen, Germany
- Stahl H. and R.N Glud (2005) In situ investigations of oxygen dynamics in marine sediments using transparent 2-D optical sensors (planar optodes). EMBS, Vienna, Austria (Oral, invited)
- Stahl H. and R.N Glud (2005) Two dimensional optical O₂ measurements in marine bioturbated sediments. Goldschmidt, Idaho, USA (Oral invited)
- Stahl H. and R.N Glud (2004). Planar O₂ optodes: a tool for 2D studies of O₂ dynamics in benthic communities. CEBED-workshop, St. Petersburg, Florida, USA

- Stahl H., J Brunnegård, P.O.J Hall and A Tengberg (2000). Role of DOC fluxes in benthic carbon cycling in deep-sea and continental margin environments. ASLO, Copenhagen, Denmark (Oral)
- Stahl H., J Brunnegård, P.O.J Hall and A Tengberg (2000). Significance of DOC fluxes in benthic carbon cycling-in situ measurements in deep-sea and continental margin sediments. EGS, Nice, France
- Stahl H., J Brunnegård, P Hall, A Tengberg and P Roos (1999). Input, recycling and burial of organic and inorganic carbon in sediments of the Porcupine Abyssal Plain, NE Atlantic. Nordic Marine Science Meeting, Hirtshals, Denmark

Research Interests

- Coral Reef Ecology
- Blue Carbon and Biogeochemical Cycling
- Climate Change Impacts in the Ocean
- Carbon Capture and Storage monitoring
- Ocean acidification, eutrophication, coral bleaching
- Marine policy and Conservation
- Marine Technology and Monitoring

Scopus Indexed Publications.

1. A. Papadopoulou, C.A. Moubareck, D. Ryder, A.L. Powell, M. Stone, A.W. Joseph, M.A Khan, E. Light, D.W. Verner-Jeffreys, J.H. Stahl, W.J.F. Le Quesne (2025) First national study on genomic profiling of *Escherichia coli* in United Arab Emirates (UAE) aquatic environments shows diverse Quinolone and Cephalosporin resistance. Environmental Challenges, Volume 20, 2025, ISSN 2667-0100, <https://doi.org/10.1016/j.envc.2025.101226>. (Q1)
2. Seveso, D., Stahl, H., Landes, A. (2024) An outbreak of *Acanthaster* spp. in the Gulf of Oman (United Arab Emirates). Marine Biodiversity, 2024 54:62 (Q2)
3. Alkhamis, R., Smale, M.J., Beech, M.J., Brownell Jr, R.L., Stahl, H., Natoli, A. (2023) Stomach content analysis of *Tursopsis aduncus* and *Sousa plumbea* stranded along the United Arab Emirates Coastline. Marine Mammal Science 2023:1-12 (Q1)
4. Terry, J., Al Ruheili, A., Boldi, R., Gennady, G., Stahl, H. (2022) Cyclone Shaheen: the exceptional tropical cyclone of October 2021 in the Gulf of Oman. Weather, 77, 364-370 (Q3)
5. Light, E., Baker-Austin, C., Card, R. M., Ryder, D., Alves, M. T., Al-Sarawi, H. A., Abdulla, K.H., Stahl, H. Aliya, A.G., Le Quesne, W. J. (2022). Establishing a marine monitoring programme to assess antibiotic resistance: a case study from the Gulf Cooperation Council (GCC) region. Environmental Advances, 9, 1-10. (Q1)
6. Bianco, W., Gaddie, K., Rice, J., Shin, D., Stahl, H., Winecoff, R. and Winecoff, W.K. (2020), Incentivizing Innovation in a Knowledge Society. Social Science Quarterly, 101: 2389- 2397. (Q1)
7. Legge, O., Johnson, M., Hicks, N., Jickells, T., Diesing, M., Aldridge, J., Andrews, J., Artioli, Y., Bakker D.C.E., Burrows, M.T., Carr, N., Cripps, G., Felgate S.L., Fernand, L.,

- Greenwood, N., Hartman, S., Kroger, S., Lessin, G., Mahaffey, C., Mayor, D.J., Parker, R., Querios, A.M., Shutler, J.D., Silva, T., Stahl, H., Tinker, J., Underwood, G.J.C, Van Der Molen, J., Wakelin, S., Weston, K., Williamson, P. (2020). Carbon on the northwest European shelf: Contemporary budget and future influences. *Frontiers in Marine Science*, 7, 143. (Q1)
8. Ingels, J., Santos, G., Hicks, N., Vazquez, Y.V., Neres, P.F., Pontes, L. P., Amorim, M.N., Roman, S., Stahl, H., Somerfield, P.J., Widdicombe, S. (2018). Short-term CO₂ exposure and temperature rise effects on metazoan meiofauna and free-living nematodes in sandy and muddy sediments: Results from a flume experiment. *Journal of Experimental Marine Biology and Ecology*, 502, 211-226 (Q2)
 9. Mogg, A.O.M., Attard, K.M., Brand, T., Turnewitch, R., Stahl, H., Sayer M. (2017) The influence of coring method on the preservation of sedimentary and biogeochemical features when sampling soft-bottom, shallow coastal environments. *Limnology and Oceanography: Methods*, 15(9), 905–915. (Q1)
 10. Rovelli, L., K. M. Attard, A. Binley, C.M. Heppell, H. Stahl, M. Trimmer, R. N. Glud (2017) Reach-scale River metabolism across contrasting sub-catchment geologies: Effect of light and hydrology. *Limnology and Oceanography*, 62(S1), S381–S399 DOI: 10.1002/lno.10619 (Q1)
 11. Currie, A.R., Tait, K., Parry, H., de Fransico-Mora, B., Hicks, N., Osborn, A.M., Widdicombe, S., Stahl, H. (2017) Marine Microbial Gene Abundance and Community Composition in Response to Ocean Acidification and Elevated Temperature in Two Contrasting Coastal Marine Sediments. *Frontiers in Microbiology*, 8:1-17 (Q1)
 12. Hicks, N., Ubbara, G.R., Silburn, B., Smith, H.E.K., Kröger, S., Parker, E.R., Sivyer, D., Kitidis, V., Hatton, A., Mayor, D.J., Stahl, H (2017) Oxygen dynamics in shelf seas sediments incorporating seasonal variability. *Biogeochemistry*, 135(1–2), 35–47. (Q1)
 13. Glud R.N., Berg, P., Stahl, H., Hume, A., Larsen, M., Eyre, B.D., Cook, P.L.M (2016) Benthic carbon mineralization and nutrient turn-over in a Scottish Sea-Loch: An integrative study. *Aquatic Geochemistry*, 22: 443-467 (Q2)
 14. Attard, K., Stahl, H., Kamenos, N.A., Turner, G., Burdett, H.L., Glud, R.N. (2015) Benthic oxygen exchange in a live coralline algal bed and an adjacent sandy habitat: an eddy covariance study. *Marine Ecology Progress Series*, 535:99-115 (Q1)
 15. Rovelli, R., Attard K.M., Bryant, L.D., Flögel, S., Stahl, H., Roberts, M.J., Linke, P., Glud, R.N. (2015) Benthic O₂ uptake of two cold-water coral communities estimated with the non- invasive eddy-correlation technique. *Marine Ecology Progress Series*, 525:97-104 (Q1)
 16. Blackford J., Bull, J.M., Cevatoglu, M., Connelly, D., Hauton, C., James, R.H., Lichtschlag, A., Stahl, H., Widdicombe, S., Wright, I.C. (2015) Marine baseline and monitoring strategies for carbon dioxide capture and storage. *International Journal of Greenhouse Gas Control*, 38:221-229 (Q1)
 17. Kita, J., Stahl, H., Hayashi, M., Green, T., Watanabe, Y., Widdicombe, S. (2015) Benthic megafauna and CO₂ bubble dynamics observed by underwater photography during a controlled sub-seabed release of CO₂. *International Journal of Greenhouse Gas Control*, 38:202-209 (Q1)
 18. Pratt N., Ciotti, B.J., Morgan E.A., Taylor P., Stahl H., Hauton, C. (2015) No evidence for impacts to the molecular ecophysiology of ion or CO₂ regulation in tissues of selected surface-dwelling bivalves in the vicinity of a sub-seabed CO₂ release. *International*

Journal of Greenhouse Gas Control, 38:193-201 (Q1)

19. Widdicombe, S., McNeill, C.L., Stahl, H., Taylor, P., Queirós, A.M., Nunes, J., Tait, K. (2015) Impact of sub-seabed CO₂ leakage on macrobenthic community structure and diversity. *International Journal of Greenhouse Gas Control*, 38:182-192 (Q1)
20. Tait, K., Stahl, H., Taylor P., Widdicombe, S. (2015) Rapid response of the active microbial community to CO₂ exposure from a controlled sub-seabed CO₂ leak in Ardmucknish Bay (Oban, Scotland). *International Journal of Greenhouse Gas Control*, 38:171-181 (Q1)
21. Watanabe Y., Tait K., Gregory, S., Hayashi M., Shimamoto A., Taylor P., Stahl H., Green, K., Suwa Y., Yoshinaga, I., Kita, J. (2015) Response of the ammonia oxidation activity of microorganisms in surface sediment to a controlled sub-seabed release of CO₂. *International Journal of Greenhouse Gas Control*, 38:162-170 (Q1)
22. Atamanchuk D., Tengberg A., Aleynik D., Fietzek, P., Shitashima K., Lichtschlag, A., Hall, P.O.J., Stahl H. (2015) Detection of CO₂ leakage from a simulated sub-seabed storage site using three different types of pCO₂ sensors. *International Journal of Greenhouse Gas Control*, 38:121-134 (Q1)
23. Queirós A. M., Taylor P., Cowles A., Reynolds A., Widdicombe S., Stahl H (2015) Optical assessment of impact and recovery of sedimentary pH profiles in ocean acidification and carbon capture and storage research. *International Journal of Greenhouse Gas Control*, 38:110-120 (Q1)
24. Tsukaskai A., Suzumura M., Lichtschlag A., Stahl H., James R.H. (2015) Phosphorus behaviour in sediments during a sub-seabed CO₂ controlled release experiment. *International Journal of Greenhouse Gas Control*, 38:102-109 (Q1)
25. Taylor, P., Lichtschlag A., Toberman, M., Saywer, M.D.J. Reynolds, A., Sato, T., Stahl, H. (2015) Impact and recovery of pH in marine sediments subject to a temporary carbon dioxide leak. *International Journal of Greenhouse Gas Control* 38: 93-101 (Q1)
26. Lichtschlag, A., James, R.H., Stahl, H., Connelly D. (2015) Effect of a controlled sub-seabed release of CO₂ on the biogeochemistry of shallow marine sediments, their pore waters, and the overlying water column. *International Journal of Greenhouse Gas Control*, 38:80- 92 (Q1)
27. Sellami, N., Dewar, M., Stahl, H., Chen, B. (2015) Dynamics of rising CO₂ bubble plumes in the QICS field experiment: Part 1 – The experiment. *International Journal of Greenhouse Gas Control*, 38:44-51 (Q1)
28. Mabon L., Shackley S., Stahl H., Blackford J. (2015) Local perceptions of the QICS experimental offshore CO₂ release: Results from social science research. *International Journal of Greenhouse Gas Control*, 38:18-25 (Q1)
29. Taylor, P., Stahl, H., Vardy, M.E., Bull, J.M., Akhurst, M., Hauton, C., James, R.H., Lichtschlag, A., Long, D., Aleynik, D., Toberman, M., Naylor, M., Connelly, D., Smith, D., Sayer, M.J.D., Widdicombe, S., Wright, I.C., Blackford, J. (2015) A novel sub-seabed CO₂ release experiment informing monitoring and impact assessment for geological carbon storage. *International Journal of Greenhouse Gas Control*, 38:3-17 (Q1)
30. Blackford J., Stahl H., Kita J., Sato, T. (2015) Preface to the QICS special Issue. *International Journal of Greenhouse Gas Control*, 38:1-2 (Q1)
31. Blackford, J., Stahl, H., Bull, J. et al. (2014) Detection and impacts of leakage from sub-seafloor Carbon Dioxide Storage. *Nature Climate Change* 4(11), 1011–1016; DOI: 10.1038/NCLIMATE2381 (Q1)

32. Friedrich, J., Janssen F., Aleynik D., Bange N., Boltacheva N., Cagatay M.N., Dale A.W., Holtapples M., Kononets M., Konovalov S., Lichtschlag A., Livingstone D.M., Marinaro G., Mazlumyan S., Naeher S., North R.P. Papatheodoru G., Pfannkuche O., Prien R., Rehder G., Schubert C.J., Soltwedel T., Sommer S., Stahl H., Stanev E.V., Teaca A., Tengberg A., Waldmann C., Wehrli B., Wenzhöfer F. (2013). Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. *Biogeosciences* 10(8): 12655-12772. (Q1)
33. Hsieh Y, Geibert W, Van-Beek P, Stahl H, Aleynik D, Henderson GM (2013) Using the radium quartet (^{228}Ra , ^{226}Ra , ^{224}Ra and ^{223}Ra) to estimate water mixing and radium inputs in Loch Etive. *Limnology & Oceanography* 58(3): 1089-1102 (Q1)
34. Trimmer M, Grey J, Heppel CM, Hildrew AG, Lansdown K, Stahl H, Yvon-Durocher G (2012) Riverbed carbon and nitrogen cycling: state of play and some new directions. *Science of Total Environment* 434:143-158 (Q1)
35. Stahl H, Glud RN, Davison W, Warnken KW, Sochaczewski, Zhang H (2012) A combined sensor for simultaneous high resolution 2-D imaging of oxygen and trace metal fluxes. *Limnology & Oceanography: Methods* 10:389-401 (Q1)
36. Inoue T, Glud RN, Stahl H, Hume A (2011) Comparison of three different methods for assessing in situ friction velocity: A case study from Loch Etive, Scotland. *Limnology & Oceanography: Methods* 9:275-287 (Q1)
37. Berg P, Glud RN, Hume A, Stahl H, Oguri K, Meyer V, Kitazato H (2009) Eddy correlation measurements of oxygen uptake in deep ocean sediment. *Limnology & Oceanography Methods* 7:576-584 (Q1)
38. Glud RN, Thamdrup B, Stahl H, Wenzhoefer F, Glud A, Hidetaka N, Oguri K, Revsbech NP and Kitazato H (2009) Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). *Limnology & Oceanography* 54:723-734 (Q1)
39. Glud RN, Stahl H, Berg P, Wenzhoefer F, Oguri K, Kitazato H (2009) In situ microscale variation in distribution and consumption of O_2 : A case study from a deep ocean margin sediment (Sagami Bay, Japan). *Limnology & Oceanography* 54:1-12 (Q1)
40. Rysgaard S., Glud R.N., Sejr M., Blicher M., Stahl H. (2007) Denitrification activity and oxygen dynamics in Arctic Sea ice. *Polar Biology* 31:527-537 (Q1)
41. Behrens J., Stahl H., Seffensen J.F., Glud R.N. (2007) Oxygen dynamics around buried lesser sandeel, *Ammodytes tobianus* (Linnaeus, 1785): Mode of ventilation and metabolic requirements. *Journal of Experimental Biology*, 210: 1006-1014 (Q1)
42. Hall P.O.J., Brunnegård J., Hulthe G., Martin W., Stahl H. and Tengberg A. (2007). Dissolved organic matter in abyssal sediments: Core recovery artefacts. *Limnology & Oceanography* 52:19-31 (Q1)
43. Tankere-Muller S., Zhang H., Davison W., Finke N., Larsen O., Stahl H., Glud R.N. (2007) Fine scale remobilization of Fe, Mn, Co, Ni, Cu and Cd in contaminated marine sediment. *Marine Chemistry* 106:197-206 (Q1)
44. Stahl H., Glud A., Schröder C.R., Klimant I., Tengberg A., Glud R.N. (2006). Time-resolved pH imaging in marine sediments with a luminescent planar optode. *Limnology and Oceanography: Methods* 4:336-345 (Q1)
45. Stahl H, Tengberg A, Brunnegård J, Björnbom E, Forbes T.L., Josefson A.B., Kaberi H.G., Karlé I.M., Olsgaard F, Roos P, Hall P.O.J. (2004) Factors influencing organic carbon recycling and burial in Skagerrak sediments. *Journal of Marine Research* 62: 867-907 (Q1)

46. Stahl H, Tengberg A, Brunnegård J, Hall P.O.J. (2004) Recycling and burial of organic carbon in sediments of the Porcupine Abyssal Plain, NE Atlantic. *Deep-Sea Research I* 51:777-791 (Q1)
47. Stahl H, Hall P.O.J., Tengberg A, Josefson A.B., Streftaris N, Zenetos A and Karageorgis A.P. (2004) Respiration and sequestering of organic carbon in shelf sediments of the oligotrophic northern Aegean Sea. *Marine Ecology Progress Series* 269:33-48 (Q1)
48. Tengberg A, Stahl H, Gust G, Hall P (2004) Intercalibration of benthic flux chambers I. Accuracy of flux measurements and influence of chamber hydrodynamics. *Progress in Oceanography* 60:1-28 (Q1)
49. Brunnegård J, Grandel S, Stahl H, Tengberg A, Hall P.O.J. (2004) Nitrogen cycling in deep- sea sediments of the Porcupine Abyssal Plain, NE Atlantic. *Progress in Oceanography* 63: 159-181 (Q1)
50. Rabouille C., Stahl H., Bassinot A., Tengberg A., Brunnegård J., Hall P., Kariakoulakis K., Reyss L., Dezileau P., Crassous P., Roos P., Lampitt R. (2001) Imbalance in the carbonate budget of surficial sediments in the North Atlantic Ocean: Variations over the last millenium? *Progress in Oceanography* 50:201-221 (Q1)
51. Ragueneau O, Gallinari M, Stahl H., Tengberg A, Grandel S, Hall P, Lampitt R, Witbaard R, Richert D, Hauvespre A (2001) The benthic silica cycle in the north-east Atlantic: seasonality, annual mass balance and preservation mechanisms. *Progress in Oceanography* 50:171-200 (Q1)
52. Wilhelmsson D, Öhman M.C., Stahl H., Shlesinger Y. (1998) Artificial reefs and dive tourism in Eilat, Israel. *Ambio* 27:764-766 (Q2)
53. Mortimer R.J.G., Krom M.D., Hall P.O.J., Hulth S., Stahl H. (1998) Use of gel probes for the determination of high-resolution solute distributions in marine estuarine pore waters. *Marine Chemistry* 63: 119-129 (Q1)

Conference Proceedings

1. Sayer, M.DJ., Taylor, P., Stahl, H. (2014) The use of scientific diving in support of a novel carbon dioxide release experiment. In: Eckert G., S. Keller & S. Tamone eds. *Proceedings of American Academy for Underwater Sciences 33rd Symposium*, pp 50-54
2. Dohohue P.J.C., Stahl H., Roberts M., Cusack M., Kamenos N. (2012) Synergistic effects of temperature and pCO₂ on the protein profile of the calcifying red alga, *Lithothamnion glaciale*. *Ocean Sciences Meeting, Salt Lake City, US* (pp. 1)
3. Attard, K., Sayer, M., & Stahl, H. (2009). Validating diving as a tool for soft-bottom sediment collection in a shallow coastal setting: a geochemical approach. *Proceedings of the 2nd International Symposium on Occupational Scientific Diving*, p. 16. In *2nd International Symposium on Occupational Scientific Diving* (pp. 16). University of Helsinki.
4. Bell E.M., Apitz S.E., Breuer E., Damgaard L., Gilbert F., Glud R., Hall P., Kershaw P., Lansard B., Nickell L., Parker R., Rabouille C., Shimmield G., Solan M., Soltwedel T., Spagnoli R., Stahl H., Tengberg A., Walperdorf E., Witte U. (2008) Integrating new technologies for the study of benthic ecosystem response to human activity: towards a costal Ocean Benthic Observatory (COBO). *Proceedings of the XVII Congresso Associazione Italiana di Oceanologia e Limnologia 2006, Napels Italy*.
5. Oguri K., Kitazato H., Glud R., Stahl H., Wenzhoefer F., Asakawa K., Iwase R., Sakai S.,

- Nomaki H., Fujikura K. (2007) In situ measurement of time-series two dimensional O₂ distributions at sediment-water interface using a planar O₂ optode system connected with a submarine cable. 2007 Symposium on underwater technology and workshop on scientific use of submarine cables and related technologies, Vols 1 and 2, pp: 367-370
6. Behrens, J., Staahl, H. J., Steffensen, J. F., & Glud, R. N. (2006). *Visualisation of how buried lesser sandeel (Ammodytes tobianus) obtain oxygen – and evidence of a fish capable of metabolic depression*. Abstract from 7th International Congress on the Biology of Fish, St. Johns, Newfoundland and Labrador, Canada.
 7. Stahl H and R.N Glud (2005) Two dimensional optical O₂ measurements in marine bioturbated sediments. *Geochimica et Cosmochimica Acta* 69(10): A114-A114

Book Chapters & Thesis

1. Ammar, E.E., Anake, W.U., Khafaga, D.S.R., Stahl, H., Ali, G.A.M. (In press) Advanced nanomaterials for groundwater treatment sustainability. In *Technology-Based Solutions for Sustainable Groundwater*, Chapter 21, Elsevier Publishing.
2. Stahl H. (2001). Carbon cycling in deep-sea and contrasting continental margin sediments. PhD-thesis, Analytical and Marine Chemistry, Department of Chemistry, Göteborg University, Sweden
3. Tengberg, A., DeBovee F., Hall P.O.J., Barbouty Y., Hulth S. Picon P. (1997) The Banyuls and Göteborg benthic landers: two modular autonomous instruments for biogeochemical sea floor studies. In: *Free-Vehicle benthic lander technology for the study of biogeochemical processes in marine sediments*, Goteborg, 1997, Chapter 2

Peer Review Activities

- Journal peer reviewer for: *Marine Biology*; *Continental Shelf Research*; *Limnology and Oceanography*; *Aquatic Geochemistry*; *Limnology & Oceanography*; *Costal and Estuarine Shelf Science*; *Marine Pollution Bulletin*; *Journal of Soils and Sediments*; *Gehochimica et Cosmochimica Acta*; *AMBIO*; *International Journal of Greenhouse Gas Control*; *One Earth*
- Guest-editor for the *International Journal of Greenhouse Gas Control* (2014-2015)
- External PhD examiner (Aberdeen University, 2011; University of Southampton, 2012; University of Southern Denmark, 2013)
- External Review Team member for accreditation of MSc in Environmental Science and Sustainability at University of Bahrain (2022)
- Reviewer of scientific proposals for national funding agencies (NERC, NSF), and for universities (e.g. ZU & NYU Abu Dhabi)

Research, Teaching Grants

Principal Investigator (PI):

- ENEC Grant: Coral Propagation in the Arabian Gulf. 2017-2020 (AED 2.286.660)
- ZU RIF Grant: Environmental impacts from desalination on marine ecosystems of the Gulf: A case study from the Al Zawra RO desalination plant in Ajman, UAE. 2016-2018 (AED 148.000)
- FENCO Grant (2012): Novel techniques for seabed monitoring of CO₂ leakage and

monitoring campaigns based on reservoir, cap rock and overburden migration models. 2013-2016 (£165.979)

- NERC consortium grant: Biogeochemistry, macronutrient and carbon cycling in the benthic layer. 2013-2016 (£105.990)
- NERC consortium grant: The role of lateral exchange in modulating the seaward flux of C, N, P. 2012-2015 (£364.760) Co-applicant: Prof Ronnie Glud (SAMS)
- NERC Consortium grant: Impacts and Implications of ocean acidification on key benthic ecosystems, communities, habitats, species, and life cycles. 2010-2013 (£451.788)
- NERC Consortium grant: Quantifying and monitoring potential ecosystem impacts of geological carbon storage (QICS). 2010-2014 (£210.891)
- EU FP7 grant: In situ monitoring of oxygen depletion in hypoxic ecosystems of coastal and open seas, and land-locked water bodies (HYPOX). 2008-2011 (£281.728) Co-applicants: Prof. Ronnie Glud (SAMS), Dr. Mark Inall (SAMS)
- Swedish Foundation for International Cooperation and Higher Education grant: Importance of brittle stars (*Amphiura filiformis* and *Amphiura chiajei*) for benthic mineralization processes in the coastal sediments of SE Kattegat. 2002-2004 (SEK 286.000) Co-applicant: Dr. Ronnie Glud, (MBL).

Co-Principal Investigator (Co-PI):

- UKF Research Grant: Multispecies photo-identification of Cetaceans in the Gulf of Oman and Arabian Gulf using AI. 2024-2026 (AED: 46.000)
- UKF Research Grant: Unveiling the Silent Threat to Marine Ecosystem: A Comprehensive Analysis of Microplastics & Heavy Metal Pollution Across UAE Coastal Waters. 2024-2026 (AED 60.000)
- SARF grant: Sediment sulphide response to organic loading. 2012-2013 (£95.279). PI - Prof. Kenny Black (SAMS).
- NERC Standard grant: Impact of the Geometry of Submarine Landscapes on Deep-Sea Biogeochemistry (TopoDeep). 2009-2012 (£487.555) PI – Dr. Robert Turnewitch (SAMS)
- NERC Standard grant: Micro-heterogeneity of carbon mineralization and metal mobilization in marine sediments (MICRO-NICHE). 2008-2011 (£283.005) PI – Prof Ronnie Glud (SAMS)
- NERC SOFI grant: Carbon mineralization of shelf and coastal sediments: A holistic approach using state of the art lander technology and the eddy-correlation technique (EDDY). 2008-2011 (£359.883) PI- Prof Ronnie Glud (SAMS)
- Swedish Natural Science Research Council grant: Recycling and burial of biogenic debris in deep-sea and continental margin sediments- New benthic lander. 1999-2001 (SEK 1.000.000) PI - Prof. Per Hall (Gothenburg University)
- Crafoord foundation grant: Construction of an autonomous benthic mini-lander for in-situ studies of biogeochemical processes in coastal sediments. 1998-1999 (SEK 137.850) from the (1998 - 1999) PI – Dr. Stefan Hulth (Gothenburg University)

Awards and Recognitions

- Exceeding Expectations in Service Award 2020/2021 – Zayed University
- Faculty Scholarship Award 2014/2015 and 2015/2016 – Zayed University
- Outstanding Faculty and Staff Award 2015/2016 – Zayed University

- Honorary Fellowship Award 2014-2019 – Scottish Association for Marine Science
- Post-doctoral Fellowship Award 2002 – Swedish Foundation for International Cooperation and Higher Education

Service

Service to the University:

- Member of the Deans Council (University of Khorfakkan)
- Chair of the College Council in the College of Marine Sciences and Aquatic Biology (University of Khorfakkan)
- Member of the University Standing Ethics in Research Committee (University of Khorfakkan)
- Coordinator for UKF's COP28 participation and contribution (We Are the Possible) in collaboration with University of Exeter.
- Member of the University Standing Committee for Curricular Development (Zayed University) 2018-2022
- Member of the University Standing Committee for Program Learning Outcomes Assessment (Zayed University) 2018-2022
- Chair of the College Curricular Development Committee (CNHS, Zayed University) 2016- 2022
- Chair of the College Accreditation Committee (CNHS, Zayed University) 2016-2022
- Chair for the new MSc in Environmental Science and Sustainability Program Development Taskforce (CNHS, Zayed University) 2018-2020
- Chair of the new BSc in Sustainability Program Development Taskforce (Zayed University) 2021-2022
- Member of the College Council (CNHS, Zayed University) 2016-2022
- Ex-Officio member of the College Hiring Committees (CNHS, Zayed University) 2016-2022
- Member of various taskforces at ZU (Policy review & development taskforce; License & Subscriptions taskforce; Annual Rewards & Incentives taskforce)
- Chair of the organizing committee at ZU for the international workshop "Coral reef restoration and propagation in the Arabian Gulf, UAE" in October 2020
- Chair of the organizing committee at ZU for the international "DroneSynergies" conference in November 2018 and in November 2019.
- Member of the organizing committee at ZU for the "Quinoa for Future Food and Nutrition Security in Marginal Environments" December 2016

Service to the Community:

- Marine expert advisor to Companies, NGO's and Government Entities (e.g. Dubai Carbon; Sea World Abu Dhabi; Scottish Government; Dubai Museums; Scottish Natural Heritage)
- Author of articles about marine science and education in various popular science publications (e.g. Divers of the Environment – EAD Magazine; Ocean Explorer; Royal Society of Edinburgh; ClimateXChange; SAMS Annual Reports; QS Top Universities; Scottish Natural Heritage)

- Invited guest speaker/presenter at various public forums, exhibitions, and schools (e.g. Alserkal Avenue Dubai 2018; BlueTech Exhibition 2019; Innovation week Zayed University 2017-2019; MOE Pavilion at COP28; Sharjah Aquarium June 2024)