

Curriculum Vitae - Sebastiaan Swart

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University of Gothenburg
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Professional Experience

2019 – present **Associate Professor**, University of Gothenburg, Sweden
2016 – 2019 **Assistant Professor**, University of Gothenburg, Sweden
2015 – 2016 **Principal Scientist**, Council for Scientific & Industrial Research, S. Africa
2013 – 2015 **Senior Scientist**, Council for Scientific & Industrial Research, S. Africa
2012 – present **Honorary Research Associate**, Marine Research Institute, U. Cape Town, S. Africa
2012 – 2013 **Scientist**, Council for Scientific & Industrial Research, S. Africa
2010 – 2012 **Post Doctoral Research Fellow**, jointly – U. Cape Town & Council Scientific & Industrial Research

Education

2018 **Docent (Associate Professor)**, University of Gothenburg, Sweden
2005 – 2009 **Ph.D. in Oceanography**, jointly - U. Cape Town, S. Africa & U. Bretagne, France
2004 **B.Sc. Honours in Oceanography**, U. Cape Town, S. Africa
Graduated with Cum Laude
2001 – 2003 **B.Sc. with majors in Ocean & Atmospheric Science, Environmental & Geographic Science, Archaeology**, U. Cape Town, S. Africa

Bibliometrics

55 peer-reviewed articles; 1010 citations; H-index: 15; i10-index: 25; Publications list appended below.

Supervision – (those awarded with distinction are marked *; where Swart is primary supervisor are marked #)

Post-Doctoral Louise Biddle[#] (U. Gothenburg, 2017 – present)
Marcel du Plessis[#] (U. Gothenburg + U. Cape Town, 2019 – present)
Doctoral Martin Morhmann[#] (U. Gothenburg, 2018 - present)
Marcel du Plessis[#] (U. Cape Town, 2015 – 2018)
Isabelle Giddy[#] (U. Gothenburg + U. Cape Town, 2018 – present)
Sarah Nicholson (U. Paris + U. Cape Town, 2012 – 2016)
Master of Science 14 completed Masters dissertations since 2010 (7 with distinction)
B.Sc. Honours 10 completed Honours dissertations since 2012 (6 with distinction)

Funded Research Grants (only those > US\$ 100 000 shown)

Total funding awarded as PI: US\$ 3.76 million
Total funding awarded as co-PI: US\$ 3.82 million
2019 – 2023 EU H2020 Grant “Southern Ocean Carbon and Heat Impact on Climate – SO-CHIC” (co-PI, lead of WP1 – US\$ 750,000 for Swart’s part)
2019 – 2022 Swedish Space Board Grant “Warm oceanic Inflows for Near-real time Detection Of Weddell polynya from Space (WINDOWS)” (co-PI, US\$ 460,000)
2019 – 2021 EU Regional Grant “Swedish Centre for Ocean Observing Technology (SCOOT)” (PI – US\$ 800,000)
2019 – 2021 The Swedish Foundation for International Cooperation in Research and Higher Education (STINT) Grant “The Ocean Beneath Antarctic Sea-ice” (PI – US\$ 130,000)
2018 – 2020 South African National Antarctic Programme Research Grant “The role of storms in shaping upper ocean physics and primary production in the Southern Ocean” (co-PI – US\$ 200,000)
2017 Royal Swedish Academy of Sciences (KVA) – TING (PI – US\$ 100,000)
2015 – 2021 Wallenberg Academy Fellow, K&A Wallenberg Foundation (PI – US\$ 1,800,000)
2015 – 2017 South African National Antarctic Programme Research Grant “Surface ocean physical dynamics of the Southern Ocean” (PI – US\$ 180,000)
2014 – 2018 DST Research Infrastructure Grant “Southern Ocean observational infrastructure for oceanography and climate research” (co-PI – US\$ 2,800,000)
2012 – 2014 South African National Antarctic Programme Research Grant “South Atlantic Meridional Overturning Circulation (SAMOC)” (co-PI – US\$ 360,000)

Research, Teaching Activities, Community Recognition, Services

Scientific Committees - Co-Chair (elected) of SOOS (2017 – 2020)
- Vice-Chair (elected) of SOOS (2014 – 2017)
- Co-chair of the Southern Ocean Air-Sea Flux (SOFLUX) Working Group (2015-present)
- Member of the POGO-SOOS Under Ice Working Group (2015-present)
- Invited member of the international ‘Scientific Steering Committee’ of the Southern Ocean Observing System (SOOS) (2012 – 2014)

- Invited member of the international ‘Management Committee’ of the EU COST Action on Ocean Gliders (EGO) (2011 – present)
- Scientific Council for Antarctic Research (SCAR) SA National Delegate (2012 – 2013)
- Member of the Association of Polar Early Career Scientists (2010 – 2012)

Convener	<p>‘The Polar Oceans at Submesoscales’, Polar 2018, Davos, Switzerland, 2018</p> <p>‘Air-sea fluxes and mixed layer processes’, Ocean Sciences, USA, 2018</p> <p>‘Polar Oceans and Atmosphere’, IAPSO Conference, RSA, 2017</p> <p>‘Gliders in Polar Oceans’, EGO Conference, UK, 2016</p> <p>‘Natural Sciences Conference – CSIR’ - Lead organizer, RSA, 2016</p> <p>‘Submesoscale processes’, Liege Colloquium, Belgium, 2016</p> <p>‘Observing Antarctica & Southern Ocean’, SCAR Conference, USA, 2012</p>
Invited Speaker	<ul style="list-style-type: none"> - EGU General Assembly, Vienna, April 2007 - IUGG XXX Congress, Melbourne, June 2011 - SOOS Public Forum, Hobart, June 2015 - FRISP AUV Symposium, Gothenburg, October 2016 - Gordon Polar Research Conference, Ventura, March 2017 - SOOS-AWI Symposium, Bremerhaven, June 2017 - EuroGOOS Conference, Bergen, October 2017
Key Workshops	<ul style="list-style-type: none"> - Organiser of Southern Ocean Air-Sea Flux International Workshop at Polar2018 Congress, Davos, Switzerland, 2018: ±30 participants. Generated 1 peer-reviewed publication. - Co-organiser with S. Gille of the ESA - Air-Sea Exchanges International Workshop in Frascati, Italy, 2015: 48 participants. Generated 1 peer-reviewed publication. - Co-organiser - SOOS-Asia Workshop in Shanghai, China, 2013: >50 participants. Generated 2 peer-reviewed publications. - Co-organiser - POGO Observing Under Ice Workshop in Germany, 2017: >50 participants.
Journal Reviewer	Nature, Nature Climate Change, J. Geophysical Research, Geophysical Research Letters, Deep-Sea Research, Nature - Scientific Data, J. Physical Oceanography, etc.
Funding Reviewer	European Research Council, Swiss Polar Institute, German Research Foundation, Italian Scientific Committee on Antarctic Research, Chilean National Science & Technology Commission, SA National Research Foundation, Scientific Council for Antarctic Research.
Cruise Experience	Extensive research cruise experience having undertaken 14 scientific voyages - 7 were to the Southern Ocean/Antarctica, 3 have involved complex operations using gliders & ship observation capabilities. Chief Scientist on 3 expeditions to the Antarctic (2010, 2012, 2013)
Teaching	<p>Organizer & Lecturer: Oceanography Masters Course: Observing the Ocean from Micro to Macro OC4920: 2018-2019</p> <p>Lecturer – Marine Masters Course MAR440: From Idea to Action: 2018</p> <p>Organizer & Lecturer: Training Internationally on Gliders (TING) – Postgraduate, 2017</p> <p>Southern Ocean dynamics and variability – Postgraduate, 2011</p> <p>Southern Ocean dynamics and field experimentation – Undergraduate: 2013</p> <p>Coastal Oceanography – Masters in Landscape architecture: 2013, 2014</p> <p>Pedagogic education: Basic Teaching in Higher Education - HPE101; Supervision in Postgraduate Programmes - HPE202; Teaching & Learning in Higher Education - HPE102; Teaching & Learning in Higher Education – Applied Analysis – HPE103: 2017-2019.</p> <p>Teaching prior to 2010 not listed here.</p>
Outreach	Numerous presentations, exhibitions or mentoring related to Antarctic & Southern Ocean research, science, technology and climate, such as: National Marine Week 2011, 2014, 2015, Habitable Planet Summer School 2010, Herzlia High School Career Exhibition 2009 & 2010, Nansen Tutu Summer School 2014, at-sea training of school learners. Multiple newspaper articles and TV productions articulating pioneering ocean robotics achievements and ocean sciences to the broader public. Continuous collaborations (2017-ongoing) with Gulmars Gymnasiet high school in Lyseskil, Sweden where students develop their own ocean drifters that are deployed in real ocean experiments.
Major awards	<p>Wallenberg Academy Fellow – 2015-2021</p> <p>National Research Foundation Y1 Award – 2011</p> <p>The Netherlands Research Fellowship Award – 2008</p> <p>START/Norwegian Agency for Development (NORAD) Award – 2007</p>

Publications

54. du Plessis, M. D., **S. Swart**, I. J. Ansorge, A. Mahadevan, A. F. Thompson. Southern Ocean seasonal restratification delayed by submesoscale wind-front interactions. *J. Phys. Ocean.*, <https://doi.org/10.1175/JPO-D-18-0136.1>. 2019.
53. **Swart, S.**, S. Gille, and co-authors. Constraining Southern Ocean air-sea-ice fluxes through enhanced observations. *Frontiers Mar. Sci.*, 6:421, [doi: 10.3389/fmars.2019.00421](https://doi.org/10.3389/fmars.2019.00421). 2019.
52. Cronin M., **S. Swart**, and co-authors. Air-sea fluxes with a focus on heat and momentum. *Frontiers Mar. Sci.*, 6:430, [doi: 10.3389/fmars.2019.00430](https://doi.org/10.3389/fmars.2019.00430). 2019.
51. Smith G., **S. Swart**, and co-authors. Polar Ocean Observations: A Critical Gap in the Observing System and its effect on Environmental Predictions from Hours to a Season. *Frontiers Mar. Sci.*, 6:429, [doi: 10.3389/fmars.2019.00429](https://doi.org/10.3389/fmars.2019.00429). 2019.
50. Meijers, A., J-B. Sallée, A. Grey, K. Johnson, K. Arrigo, **S. Swart**, B. King, M. P. Meredith, M. R. Mazloff. Southern Ocean [in “State of the Climate in 2018”]. *Bull. Americ. Meteor. Soc.*, **100** (9), [doi:10.1175/2019BAMSStateoftheClimate.1](https://doi.org/10.1175/2019BAMSStateoftheClimate.1). 2019.
49. Testor, P., **S. Swart**, and co-authors. OceanGliders: a component of the integrated GOOS. *Frontiers Mar. Sci.* [doi: 10.3389/fmars.2019.00422](https://doi.org/10.3389/fmars.2019.00422). 2019.
48. Smith, S., **S. Swart**, and co-authors. Ship-Based Contributions to Global Ocean, Weather, and Climate Observing Systems. *Frontiers Mar. Sci.* 6:434, [doi: 10.3389/fmars.2019.00434](https://doi.org/10.3389/fmars.2019.00434). 2019.
47. Newman, L., **S. Swart**, and co-authors. Delivering sustained, coordinated and integrated observations of the Southern Ocean for global impact. *Frontiers Mar. Sci.*, [doi: 10.3389/fmars.2019.00433](https://doi.org/10.3389/fmars.2019.00433). 2019.
46. d'Ovidio, F., A. Pascual, J. Wang, A. Doglioli, Z. Jing, S. Moreau, G. Gregori, **S. Swart**, S. Speich, F. Cyr, B. Legresy, Y. Chao, L. Fu, R. A. Morrow. Frontiers in Fine-Scale in situ Studies: Opportunities During the SWOT Fast Sampling Phase. *Front. Mar. Sci.* 6:168. [doi: 10.3389/fmars.2019.00168](https://doi.org/10.3389/fmars.2019.00168). 2019.
45. Little, H., M. Vichi, S. Thomalla, **S. Swart**. Spatial and temporal scales of chlorophyll variability using high-resolution glider data. *J. Mar. Syst.*, doi.org/10.1016/j.jmarsys.2018.06.011. 2018
44. Viglione, G, A. A. F. Thompson, M. Flexas, J. Sprintall, **S. Swart**. Abrupt transitions in submesoscale structure in Southern Drake Passage: Glider observations and GCM results. *J. Phys. Ocean.*, <https://doi.org/10.1175/JPO-D-17-0192.1>. 2018
43. **Swart, S.**, E. C. Campbell, C. H Heuzé, K. Johnson, J. L. Lieser, R. Massom, M. Mazloff, M. Meredith, P. Reid, J-B. Sallée, and S. Stammerjohn. Return of the Maud Rise polynya: Climate litmus or sea ice anomaly? [in “State of the Climate in 2017”]. *Bull. Amer. Meteor. Soc.*, **99** (8), S188-S189, [doi:10.1175/2018BAMSStateoftheClimate.1](https://doi.org/10.1175/2018BAMSStateoftheClimate.1). 2018.
42. **Swart S.**, K. Johnson, M. R. Mazloff, A. Meijers, M. P. Meredith, L. Newman, and J-B. Sallée. Southern Ocean [in “State of the Climate in 2017”]. *Bull. Amer. Meteor. Soc.*, **99** (8), S185-S190, [doi:10.1175/2018BAMSStateoftheClimate.1](https://doi.org/10.1175/2018BAMSStateoftheClimate.1). 2018.
41. Krug, M., **S. Swart**, J. Hermes. Ocean gliders expand research capacity on the Agulhas Current, *EOS*, <https://doi.org/10.1029/2018EO100105>. 2018
40. Schmidt, K., **Swart, S.**, Reason, C., Nicholson, S. Evaluation of satellite and reanalysis wind products with in situ Wave Glider wind observations in the Southern Ocean. *J. Ocean Atm. Tech.* doi.org/10.1175/JTECH-D-17-0079.1. 2017.
39. du Plessis, M., **Swart, S.**, Ansorge, I. J. and Mahadevan, A. Submesoscale processes accelerate seasonal restratification in the Subantarctic Ocean. *J. Geophys. Res.* [doi:10.1002/2016JC012494](https://doi.org/10.1002/2016JC012494). 2017
38. Krug, M., **S. Swart**, and J. Gula, Submesoscale cyclones in the Agulhas current. *Geophys. Res. Lett.*, 44, 346–354, [doi:10.1002/2016GL071006](https://doi.org/10.1002/2016GL071006). 2017
37. Thomalla SJ, Ogunkoya AG, Vichi M and **Swart S.** Using Optical Sensors on Gliders to Estimate Phytoplankton Carbon Concentrations and Chlorophyll-to-Carbon Ratios in the Southern Ocean. *Front. Mar. Sci.* 4:34. [doi: 10.3389/fmars.2017.00034](https://doi.org/10.3389/fmars.2017.00034). 2017
36. Mazloff, MR, Sallée J-B, Menezes VV, Macdonald AM, Meredith MP, Newman L, Pellichero V, Roquet F, **Swart S**, Wählin A. Southern Ocean [in “State of the Climate in 2016”]. *Bull. Amer. Meteor. Soc.*. 98(8). 2017

35. Ansorge IJ, Skelton P, **Swart, S** et al. Exploring South Africa's southern frontier: A 20-year vision for polar research through the South African National Antarctic Programme. *S Afr J Sci.* 2017;113(5/6), <http://dx.doi.org/10.17159/sajs.2017/a0205>. 2017
34. **Swart, S.**, JJ. Zietsman, J. Coetzee, D.G. Goslett, A. Hoek, D. Needham and P.M.S. Monteiro. Ocean robotics in support of fisheries research and management, *Afr. J. Marine Science*. doi: 10.2989/1814232X.2016.1251971. 2016
33. Nicholson, S., Monteiro, P.M.S., Levy, M., **Swart, S.** Investigation into the impact of storms on sustaining summer primary productivity in the Sub-Antarctic Ocean. *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL069973, 2016.
32. Gille, S., S. Josey, and **S. Swart**. New approaches for air-sea fluxes in the Southern Ocean, *Eos*, 97, doi:10.1029/2016EO052243. 2016.
31. Salle, J-B., **Swart, S.**, et al. Southern Ocean [in "State of the Climate in 2015"]. *Bull. Amer. Meteor. Soc.*, S157–S160. 2016.
30. Schofield, O., Newman, L., Bricher, P., Constable, A., **Swart, S.**, Wählin, A. Moving Towards Implementation of a Southern Ocean Observing System. *Marine Technology Society Journal*, Vol. 50, No. 3, pp. 63-68(6). DOI: doi.org/10.4031/MTSJ.50.3.8. 2016
29. Hutchinson, K., **Swart, S.**, Meijers, A., Ansorge, IJ., Speich, S. The thermohaline evolution of the ACC south of Africa from 1992-2012 investigated using an Altimetry Gravest Empirical Mode. *J. Geophys. Res.*, accepted, 2016.
28. Monteiro, P.M.S., Gregor, L., Lévy, M., Maener, S., Sabine, C.L., **Swart, S.** Seasonal-scale robotics experiment reveals the contribution made by fine scale dynamics to the uncertainties and biases in the mean seasonal CO₂ flux in the Southern Ocean. *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL066009, 2015.
27. Messenger, C., **Swart, S.** Significant Atmospheric Boundary Layer Change Observed above an Agulhas Current Warm Cored Eddy. *Advances in Meteorology*, doi.org/10.1155/2016/3659657. 2015
26. Thomalla, S. J., Racault, M-F., **Swart, S.**, and Monteiro, P. M. S. High-resolution view of the spring bloom initiation and net community production in the Subantarctic Southern Ocean using glider data. – *ICES Journal of Marine Science*, doi: 10.1093/icesjms/fsv105. 2015
25. Meredith, M., **Swart, S.**, et al. Southern Ocean [in "State of the Climate in 2014"]. *Bull. Amer. Meteor. Soc.*, 96 (7), S157–S160. 2015.
24. **Swart, S.**, S. J. Thomalla, P. M. S. Monteiro. The seasonal cycle of mixed layer characteristics and phytoplankton biomass in the Sub-Antarctic Zone: a high-resolution glider experiment. *J. Marine Systems*. doi: 10.1016/j.jmarsys.2014.06.002. 2015
23. Newman, L., O Schofield, A Wählin, A Constable, **S Swart**, M Williams. Understanding the Southern Ocean through sustained Observations. *Bull. Australian Meteorological Ocean. Soc.*, 28, 170. 2015.
22. Ansorge, I. J., J.M. Jackson, **Swart, S.**, J.V. Durgadoo and S. Eberenz. Evidence of a southward eddy corridor in the South-West Indian Ocean. *Deep Sea Res. II*, doi.org/10.1016/j.dsr2.2014.05.012i, 2014.
21. **Swart, S.**, J. Liu, P. Bhaskar, L. Newman, K. Finney, M. Meredith, O. Schofield. The SOOS-Asia Workshop: Exploring possibilities for collaboration. *Advances Polar Sci.*, 2014, 25:138-145, doi: 10.1016/j.advps.2014.2.00000, 2014.
20. Liu, J, **Swart, S.**, P. Bhaskar, L. Newman, M. Meredith, O. Schofield. A report on the SOOS-Asia Workshop. *Advances Polar Sci.*, 2014, 25:121-125, doi: 10.1016/j.advps.2014.2.00121, 2014.
19. Tagliabue, A., J-B Sallée, A. R. Bowie, M. Lévy, **Swart, S.** and P. W. Boyd, Surface water iron supplies in the Southern Ocean sustained by deep winter mixing, *Nature Geoscience*, doi:10.1038/ngeo2101, 2014.
18. Domingues, R., G. Goni, **Swart S.**, and S. Dong. Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010, *J. Geophys. Res. Oceans*, 119, 1123–1145, doi:10.1002/2013JC008908, 2014.
17. Sacatelli, R., Schofield, T. **Swart, S.**, et al. Ocean predictive skill assessments in the South Atlantic: Crowd-sourcing of student-based discovery. *Oceans-St. John's, IEEE*. doi: [10.1109/OCEANS.2014.7003134](http://dx.doi.org/10.1109/OCEANS.2014.7003134). 2014.
16. Mozorov, E., Tarakanov, R., Ansorge I. J., **Swart S.** Jets and transport of the Antarctic Circumpolar Current in the Drake Passage. *J. Fund. Applied Hydrophysics*. Issue 7, Vol. 3. ISSN 2073-6673. 2014.

15. Hutchinson, K., **Swart, S.**, I. J. Ansorge and G. Goni. Exposing XBT bias in the Atlantic sector of the Southern Ocean. *Deep Sea Res. II.*, 80, 11-22, doi:10.1016/j.dsr.2013.06.01, 2013.
14. Giddy, I. S., **Swart, S.** and A. Tagliabue. Drivers of non-Redfield nutrient utilization in the Atlantic sector of the Southern Ocean. *Geophys. Res. Lett.*, vol. 39, doi:10.1029/2012GL052454, 2012.
13. **Swart, S.**, S. J. Thomalla, I. J. Ansorge and P. M. S. Monteiro. Mesoscale features and phytoplankton biomass at the GoodHope transect in the Southern Ocean during austral summer. *Afr. J. Mar. Sci.*, 32(4), 2012.
12. **Swart S.**, Chang N, Fauchereau, W. Joubert, M. Lucas, T. Mtshali, A. Roychoudhury, A. Tagliabue, S. Thomalla, H. Waldron, P.M.S. Monteiro. Southern Ocean Seasonal Cycle Experiment 2012: Seasonal scale climate and carbon cycle links. *S. Afr. J. Sci.*, 108(3/4), doi.org/10.4102/sajs.v108i3/4.1089, 2012.
11. Tagliabue, A., Mtshali, T., Aumont, O., Bowie, A. R., Klunder, M. B., Roychoudhury, A. N., and **Swart, S.** A global compilation of over 13 000 dissolved iron measurements: focus on distributions and processes in the Southern Ocean. *Biogeosciences*, 8, 11489-11527, doi:10.5194/bgd-8-11489-2011. 2012.
10. Loveday B. R., **Swart S.**, and Storkey D. Capturing convection in the Northwest Mediterranean Sea: Using underwater gliders to assess the performance of regional forecast models. *Int. J. Soc. Underw. Tech.*, 30:3, 1-15, doi:10.3723/ut.30.071. 2012.
9. Thomalla, S. J., N. Fauchereau, **Swart S.**, and P. M. S. Monteiro. Regional scale characteristics of the seasonal cycle of chlorophyll in the Southern Ocean, *Biogeosciences*, 8, 2849-2866, doi:10.5194/bg-8-2849-2011. 2011.
8. Goni, G., D. Roemmich, R. Molinari, G. Meyers, C. Sun, T. Boyer, M. Baringer, V. Gouretski, P. Di Nezio, F. Reseghetti, G. Vissa, **Swart S.**, R. Keeley, S. Garzoli, T. Rossby, C. Maes, and G. Reverdin. The Ship of Opportunity Program. In OceanObs09: Sustained Ocean Observations and Information for Society (Volume 2), J. Hall, D.E. Harrison, and D. Stammer (eds.). European Space Agency Pub., WPP-306, 19 pp. 2010.
7. Billany, W., **Swart S.**, J. Hermes, C. J. C. Reason. Variability of the Southern Ocean fronts at the Greenwich Meridian. *J. Mar. Sys.*, 82, 4: 304-310, doi:10.1016/j.jmarsys.2010.06.005. 2010.
6. **Swart, S.**, S. Speich, I. J. Ansorge, and J. R. E. Lutjeharms. An altimetry-based gravest empirical mode south of Africa: 1. Development and validation, *J. Geophys. Res.*, 115, C03002, doi:10.1029/2009JC005299. 2010.
5. **Swart, S.**, and S. Speich. An altimetry-based gravest empirical mode south of Africa: 2. Dynamic nature of the Antarctic Circumpolar Current fronts, *J. Geophys. Res.*, 115, C03003, doi:10.1029/2009JC005300. 2010.
4. **Swart, S.**, S. Speich, I. J. Ansorge, G. J. Goni, S. Gladyshev, and J. R. E. Lutjeharms. Transport and variability of the Antarctic Circumpolar Current south of Africa, *J. Geophys. Res.*, 113, C09014, doi:10.1029/2007JC004223. 2008.
3. **Swart, S.**, H. N. Waldron, L. Hutchings. Evidence of carbon transport between shelf and slope waters in the Benguela upwelling system, *Afr. J. Mar. Sci.*, 29(1): 137–139. 2007.
2. Backeberg, B., S. Bland, G. Brundrit, N. Burls, L. Fairhurst, S. Gildenhuis, L. Kemp, O. Lundemo, T. Manzoni, M. Potgieter, L. Robertson, F. Shillington, D. Southey, K. Stewart, **Swart S.**, D. van Rensberg and H. Waldron. The vulnerable coastline of Table Bay: Natural consequences and impacts of development, *J. Nat. Resources Life Sci. Educ.*, 2004.
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