

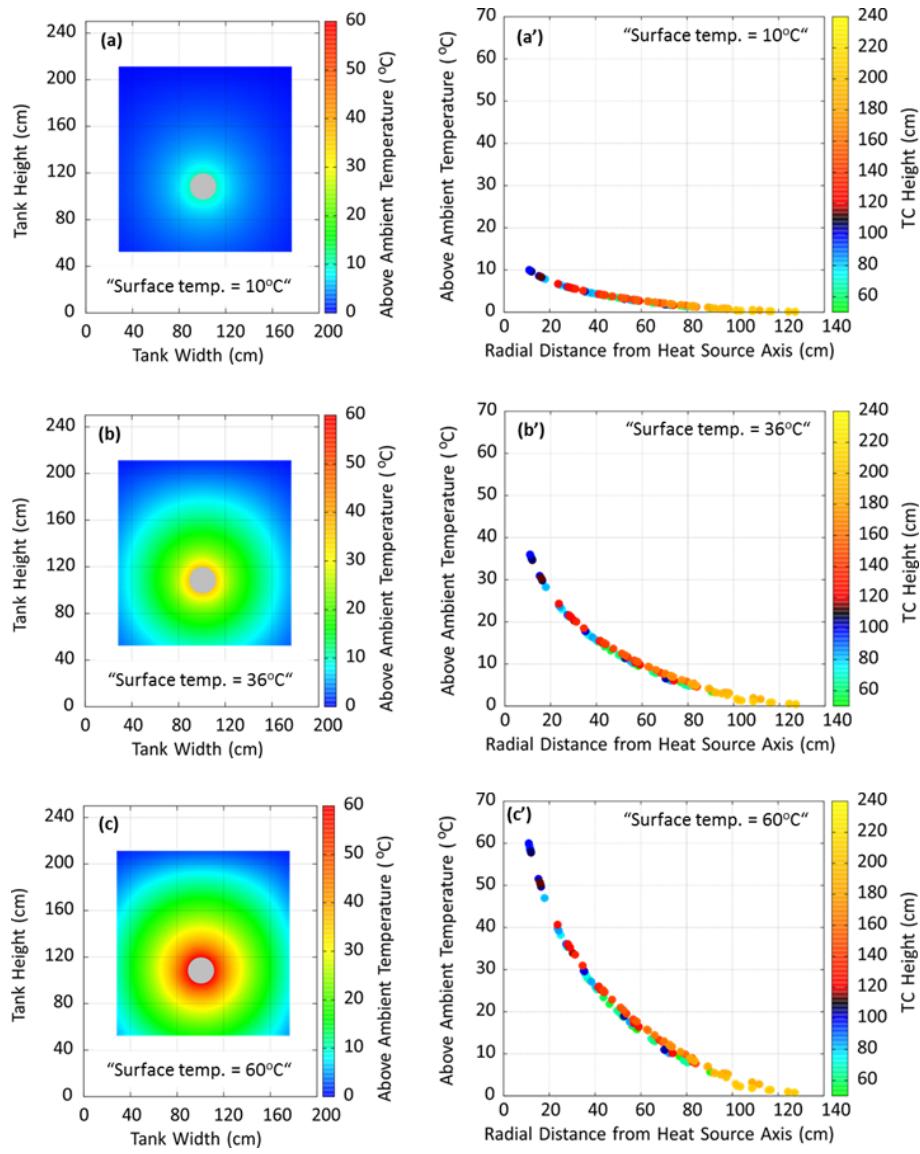
The thermal regime around buried submarine high voltage cables

C. J. Emeana,¹ T. J. Hughes,¹ J. K. Dix,¹ T. M. Gernon,¹ T. J. Henstock,¹ C. E. L. Thompson,¹ and J. A. Pilgrim,²

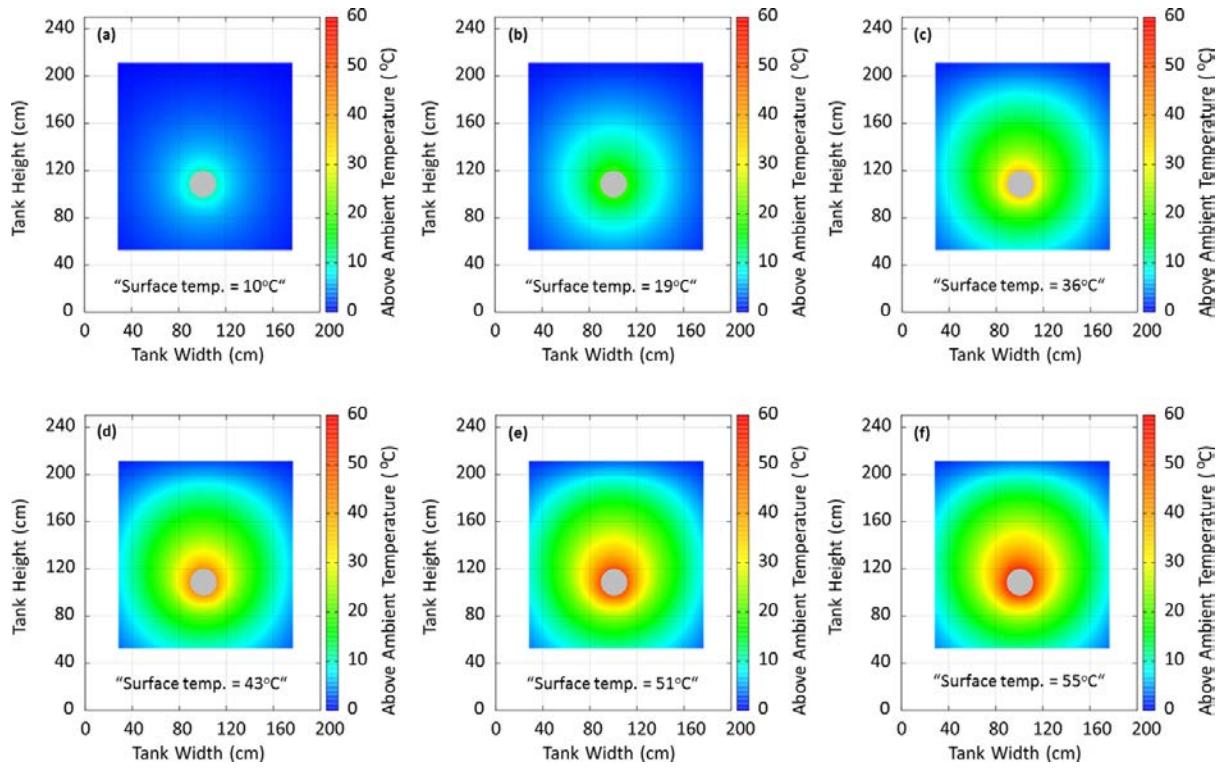
¹*Ocean and Earth Science, National Oceanography Centre, University of Southampton, Southampton, SO14 3ZH, United Kingdom. E-mail: C.J.Emeana@soton.ac.uk*

²*Electronics and Computer Science, University of Southampton, Southampton, SO17 1BJ, United Kingdom.*

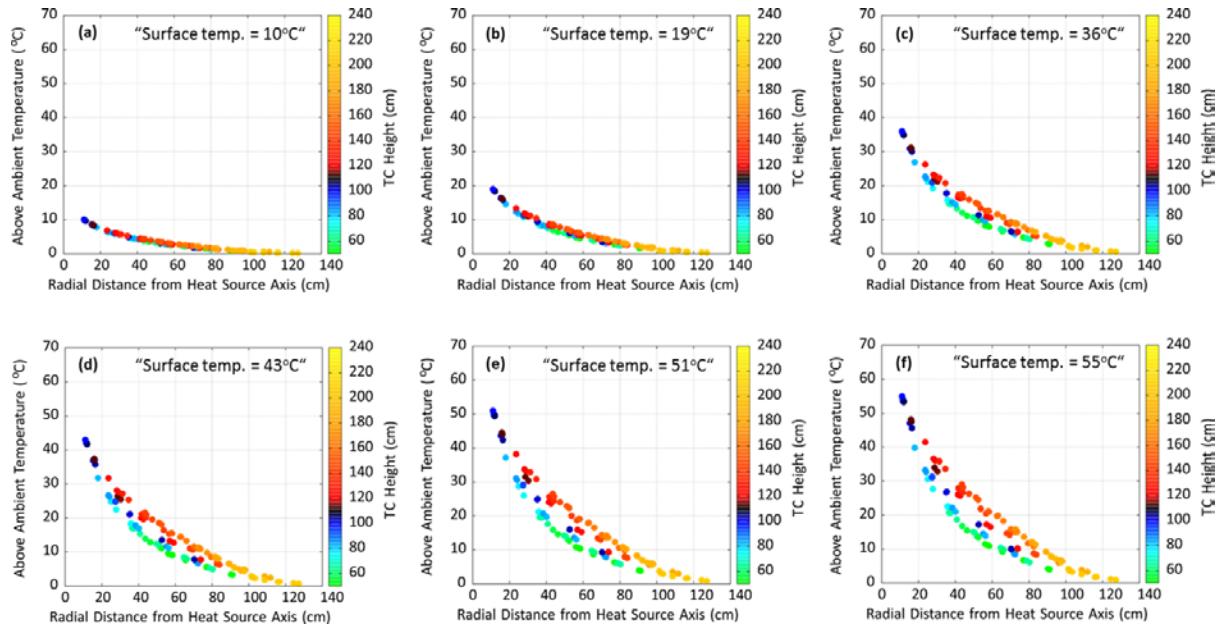
Supplementary Information: Figure Captions



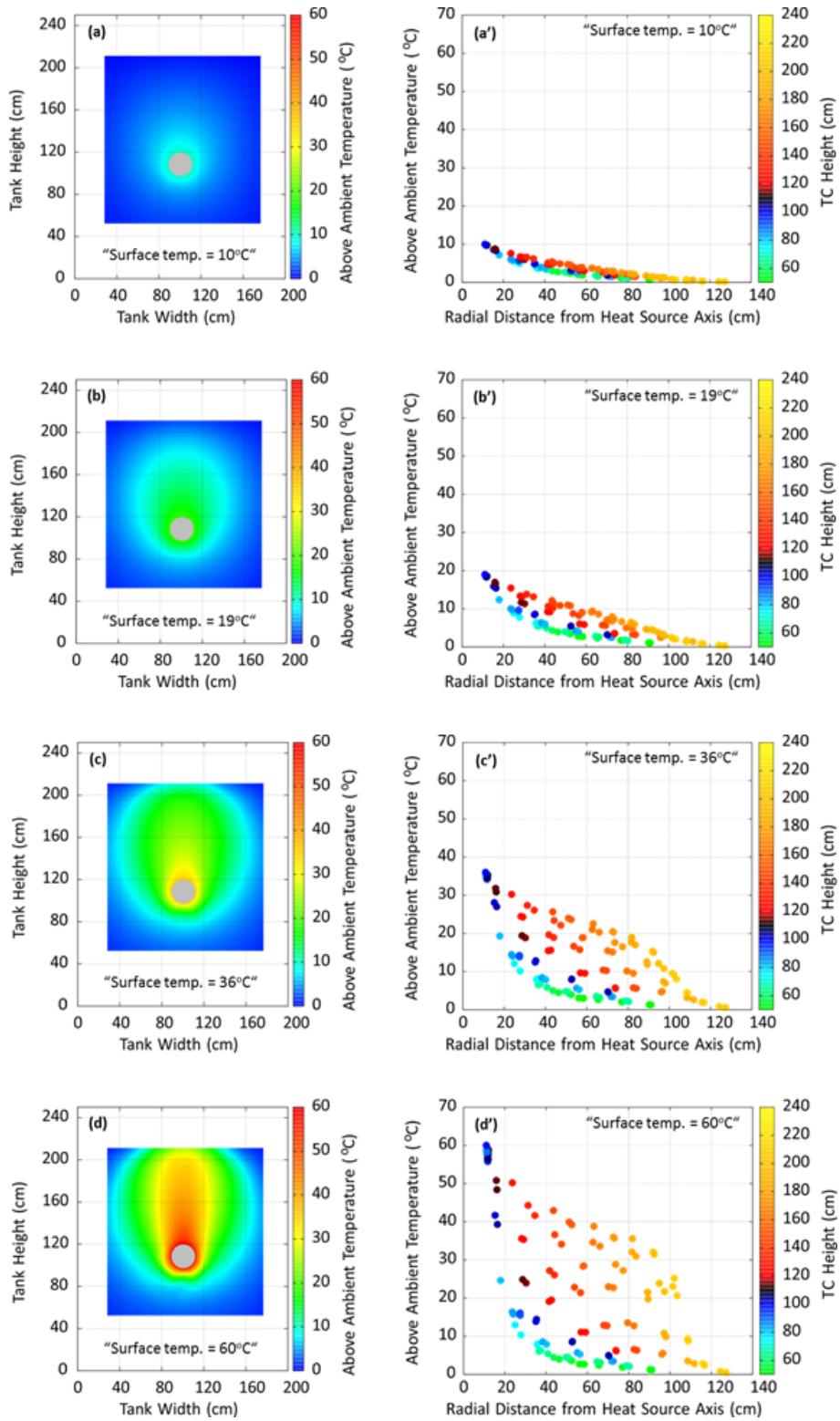
SI Figure 1: Numerical simulation results of the steady state heat flow surfaces and corresponding radial plots for $1.0 \times 10^{-12} \text{ m}^2$ permeability sediments with varying above ambient cable surface temperatures: (a) 10 °C; (b) 36 °C and (c) 60 °C.



SI Figure 2: Numerical simulation results of the steady state heat flow surfaces for $1.67 \times 10^{-11} \text{ m}^2$ permeability sediments with varying above ambient cable surface temperatures: (a) 10 °C; (b) 19 °C; (c) 36 °C; (d) 43 °C; (e) 51 °C and (f) 55 °C.



SI Figure 3: Numerical simulation results of the radial steady state temperature distribution for $1.67 \times 10^{-11} \text{ m}^2$ permeability sediments with varying above ambient cable surface temperatures: (a) 10 °C; (b) 19 °C; (c) 36 °C; (d) 43 °C; (e) 51 °C and (f) 55 °C.



SI Figure 4: Numerical simulation results of the steady state heat flow surfaces and corresponding radial plots for $1.0 \times 10^{-10} \text{ m}^2$ permeability sediments with varying above ambient cable surface temperatures: (a) 10 °C; (b) 19 °C; (c) 36 °C and (d) 60 °C.