

PUBLICATIONS

CHARLES S. COCKELL

Books

- Cockell CS, Corfield R, Edwards E, Harris N. 2008. *An Introduction to the Earth-Life System*, Cambridge University Press. pp. 328
- Cockell CS. 2006. *Project Boreas – A Station for the Martian Geographic North Pole*. British Interplanetary Society, London. pp. 192. [Report of a three year design study on the design of a station for the Martian North Pole]
- Cockell CS, Horneck G. 2006. Response of Organisms to the Martian Environment. ESA Special Publication 1299.
- Cockell CS, Koeberl C, Gilmour I. 2006. *Biological Processes Associated with Impact Events*, Springer-Verlag, Heidelberg. pp. 376. [Multi-author volume arising from the 10th ESF IMPACT Workshop in Cambridge in March 2003]
- Cockell CS. 2003. *Martian Expedition Planning*. American Aeronautics Society. Univelt, San Diego. pp. 497. [Multi-author volume looking at scientific goals and logistical challenges of surface expeditions to the Martian poles, volcanoes, mountains and caves].
- Cockell CS, Blaustein A. 2001. *Ecosystems, Evolution and UV Radiation*, Springer-Verlag, New York. pp. 221. [Multi-author volume bringing together a number of groups to look at UV effects on ecosystems and possible evolutionary consequences].

Peer-reviewed publications

164. Olsson-Francis K, Cockell CS. 2010. Experimental methods for studying microbial survival in extraterrestrial environments. *Journal of Microbiological Methods*, 80, 1-13.
163. Cockell CS, Gronstal AL, Voytek MA, Kirshtein JD, Finster K, Sanford WE, Glamoclija M, Gohn GS, Powars DS, Wright Horton, J. Jr. 2009. Microbial abundance in the deep subsurface of the Chesapeake Bay impact crater: Relationship to lithology and impact processes. *Geological Society of America Special Papers* 458, 941-950.
162. Gronstal AL, Voytek MA, Kirshtein JD, von der Heyde NM, Lowit MD, Cockell CS. 2009. Contamination assessment in microbiological sampling of the Eyreville core, Chesapeake Bay impact structure. *Geological Society of America Special Papers* 458, 951-964.
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160. Sanford, WE, Voytek MA, Powars DS, Jones BF, Cozzarelli IM, Cockell CS, Eganhouse RP. 2009. Pore-water chemistry from the ICDP-USGS core hole in the Chesapeake Bay impact structure—Implications for paleohydrology, microbial habitat, and water resources. *Geological Society of America Special Papers* 458, 867-890.
159. Osinski GR, Lee P, Cockell CS, Snook K, Lim DSS, Braham S. 2009. Field geology on the Moon: Some lessons learned from the exploration of the Haughton impact structure, Devon Island, Canadian High Arctic. *Planetary and Space Science* (in press).
158. Cockell CS, Raven JA, Kaltenegger L, Logan RC. 2009. Planetary targets in the search for extrasolar oxygenic photosynthesis. *Planet Ecology and Diversity* 2, 207-219.
157. *Book Chapter*. Cockell CS, Kelly L, Summers S. 2010. The Microbiology of Volcanic Environments. In: *Encyclopedia of Extremophiles*, Springer, Heidelberg (in press)
156. *Book Chapter*. Cockell CS. 2010. Ethics and Extraterrestrial Life. In: *Humans in Outer Space*, Springer, Heidelberg (in press)
155. *Book Chapter*. Cockell CS, Osinski GR, Voytek MA. 2010. The Geomicrobiology of Impact Structures. In: Osinski GR, Pierazzo, E. *Impact Cratering: Processes and Products*. Blackwell Publishing (in press)
154. Cockell CS. 2009. Liberty and the limits to the extraterrestrial state. *Journal of the British Interplanetary Society* 62, 139-157.
153. *Book Chapter*. Cockell CS. 2010. The Geomicrobiology of Catastrophe - A Comparison of Post-Impact and Volcanic Microbial Colonization. In: Barton L.L. *Geomicrobiology: Environmental Perspectives*. Springer (in press)
152. Olsson-Francis, K., de la Torre R, Towner, M, Cockell, CS. 2009. Survival of Akinetes (Resting-State Cells of Cyanobacteria) in Low Earth Orbit and Simulated Extraterrestrial Conditions. *Origins Life Evol Biosph* 39, 565-579
151. Cockell CS, Jones HL. 2009. Advancing the case for microbial conservation. *Oryx* 43, 520-526.

150. Cockell CS, Raven JA, Kaltenecker L. 2009. Cryptic photosynthesis, planetary atmospheric oxygen without a surface biological signature. *Astrobiology* 9, 623-636
149. Finster KW, Cockell CS, Voytek MA, Gronstal AL, Kjeldsen KU. 2009. Description of *Tessaracoccus profundus* sp.nov., a deep-subsurface actinobacterium isolated from a Chesapeake impact crater drill core (940 m depth). *Antonie van Leeuwenhoek* 96, 515-526
148. Herrera A, Cockell CS, Self S, Blaxter M, Reitner J, Thorsteinsson T, Arp G, Drose, W, Tindle A. 2009. A cryptoendolithic community in volcanic glass. *Astrobiology* 9, 369-381
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133. Weinstein S, Pane D, Ernst LA, Warren-Rhodes K, Dohm JM, Hock AN, Piatek JL, Emani S, Lanni F, Wagner M, Fisher GW, Minkley E, Dansey LE, Smith T, Grin EA, Stubbs K, Thomas G, Cockell CS, Marinangeli L, Ori GG, Heys S, Teza JP, Moersch JE, Coppin P, Diaz GC, Wettergreen DS, Cabrol NA, Waggoner AS. 2008. Application of pulsed-excitation fluorescence imager for daylight detection of sparse life in tests in the Atacama Desert. *J. Geophys. Res.* 113, G01S90
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