

---

# Contents

<b>1</b>	<b>Soils of Antarctica: History and Challenges . . . . .</b>	<b>1</b>
	James G. Bockheim	
<b>2</b>	<b>Soil-Forming Factors in Antarctica . . . . .</b>	<b>5</b>
	James G. Bockheim	
<b>3</b>	<b>Soils of Queen Maud Land . . . . .</b>	<b>21</b>
	Elya P. Zazovskaya, Dmitriy G. Fedorov-Davydov, Tatyana V. Alekseeva, and Maria I. Dergacheva	
<b>4</b>	<b>Soils of Enderby Land . . . . .</b>	<b>45</b>
	Andrey V. Dolgikh, Nikita S. Mergelov, Andrey A. Abramov, Alexey V. Lupachev, and Sergey V. Goryachkin	
<b>5</b>	<b>Soils of MacRobertson Land . . . . .</b>	<b>65</b>
	Nikita S. Mergelov, Dmitry E. Konyushkov, Alexey V. Lupachev, and Sergey V. Goryachkin	
<b>6</b>	<b>Soils of Wilkes Land (The Windmill Islands) . . . . .</b>	<b>87</b>
	Hans-Peter Blume and Manfred Bölter	
<b>7</b>	<b>Soils of North Victoria Land . . . . .</b>	<b>107</b>
	James G. Bockheim	
<b>8</b>	<b>Soils of Central Victoria Land, the McMurdo Dry Valleys . . . . .</b>	<b>117</b>
	James G. Bockheim and Malcolm McLeod	
<b>9</b>	<b>Soils of Southern Victoria Land, the Southern Transantarctic Mountains . . .</b>	<b>149</b>
	James G. Bockheim and Malcolm McLeod	
<b>10</b>	<b>Soils of Ellsworth Land, the Ellsworth Mountains . . . . .</b>	<b>169</b>
	James G. Bockheim and Carlos E.G.R. Schaefer	
<b>11</b>	<b>Soils of Marie Byrd Land . . . . .</b>	<b>183</b>
	Alexey V. Lupachev, Evgeniy V. Abakumov, Andrey A. Abramov, Sergey V. Goryachkin, and David A. Gilichinsky	
<b>12</b>	<b>Soils of Graham and Palmer Lands, Antarctic Peninsula . . . . .</b>	<b>205</b>
	Nicholas Haus, Carlos E.G.R. Schaefer, James Bockheim, and Thiago Torres C. Pereira	

<b>13 Soils of the South Orkney and South Shetland Islands, Antarctica . . . . .</b>	<b>227</b>
Felipe N.B. Simas, Carlos E.G.R. Schaefer, Roberto F.M. Michel, Marcio R. Francelino, and James G. Bockheim	
<b>14 Soils of the Weddell Sea Sector, Antarctica . . . . .</b>	<b>275</b>
Carlos E.G.R. Schaefer, Katia Karoline Delpupo Souza, Felipe N.B. Simas, Davi Gjorup, and James G. Bockheim	
<b>15 Human Impacts on Soils. . . . .</b>	<b>281</b>
T.A. O'Neill, J. Aislabie, and M.R. Balks	
<b>16 Antarctic Soils and Climate Change . . . . .</b>	<b>305</b>
James G. Bockheim	
<b>17 Summary. . . . .</b>	<b>315</b>
James G. Bockheim	
<b>Index . . . . .</b>	<b>321</b>

The Soils of Antarctica

Thorson, T. (Ed.)

2015, XV, 322 p. 188 illus., 156 illus. in color.,

Hardcover

ISBN: 978-3-319-05496-4