

THE ROUTLEDGE HANDBOOK OF SOCIAL STUDIES OF OUTER SPACE

*Edited by
Juan Francisco Salazar and Alice Gorman*

**FID SOZIAL- UND
KULTURANTHROPOLOGIE**
in Zusammenarbeit mit der DFG

CONTENTS

<i>List of Figures</i>	<i>xi</i>
<i>List of Tables</i>	<i>xiii</i>
<i>Preface</i>	<i>xiv</i>
<i>Foreword</i>	<i>xvii</i>
<i>List of Contributors</i>	<i>xx</i>
<i>Acknowledgements</i>	<i>xxx</i>
1 Social Studies of Outer Space: Pluriversal Articulations	1
<i>Juan Francisco Salazar and Alice Gorman</i>	
PART I	
Fields	23
2 Trilogie Terrestre	25
<i>Frédérique Aït-Touati and Bruno Latour</i>	
3 Refielding in More-Than-Terran Spaces	31
<i>Valerie A. Olson</i>	
4 Space and Time through Material Culture: An Account of Space Archaeology	44
<i>Alice Gorman</i>	
5 Anthropology and Contemporary Space Exploration, with a Note on Hopi Ladders	57
<i>Istvan Praet</i>	
6 Planetary Ethnography in a “SpaceX Village”: History, Borders, and the Work of “Beyond”	71
<i>Anna Szolucha</i>	

7	The Spaces of Outer Space <i>Oliver Dunnett</i>	84
8	Sociological Approaches to Outer Space <i>Paola Castaño and Álvaro Santana-Acuña</i>	96
9	Space Ethics <i>Tony Milligan and J. S. Johnson-Schwartz</i>	108
10	Other Worlds, Other Views: Contemporary Artists and Space Exploration <i>Nicola Triscott</i>	121
PART II		
	Intersections and Interventions	137
11	As Above, So Below: Space and Race in the Space Race <i>Rasheedah Phillips</i>	139
12	A Chronopolitics of Outer Space: A Poetics of Tomorrowing <i>Juan Francisco Salazar</i>	142
13	Feminist Approaches to Outer Space: Engagements with Technology, Labour, and Environment <i>Réka Patrícia Gál and Eleanor S. Armstrong</i>	158
14	The Iconography of the Astronaut as a Critical Enquiry of Space Law <i>Saskia Vermeylen</i>	172
15	Diversity in Space <i>Evie Kendal</i>	185
16	<i>Mare Incognito</i> : Live Performance Art Linking Sleep with the Cosmos through Radio Waves <i>Daniela de Paulis, Thomas Moynihan, Alejandro Ezquerro-Nassar, and Fabian Schmidt</i>	199
PART III		
	Colonial Histories and Decolonial Futures	215
17	Celestial Relations with and as Milŋiyawuy, the Milky Way, the River of Stars <i>Bawaka Country, including Dr Laklak Burarrwanga, Ritjilili Ganambarr, Merrkiyawuy Ganambarr-Stubbs, Banbapuy Ganambarr, Djawundil Maymuru, Lara Daley, Sarah Wright, Sandie Suchet-Pearson, and Kate Lloyd with Naminapu Maymuru-White and Rrawun Maymuru</i>	217

Contents

18	Coloniality and the Cosmos <i>Natalie B. Treviño</i>	226
19	Safeguarding Indigenous Sky Rights from Colonial Exploitation <i>Karlie Alinta Noon, Krystal De Napoli, Peter Swanton, Carla Guedes, and Duane Hamacher</i>	238
20	Anishinaabeg in Space <i>Deondre Smiles</i>	252
21	Earthless Astronomy, Landless Datasets, and the Mining of the Future <i>Katheryn M. Detwiler</i>	263
22	Reconstellating Astroenvironmentalism: Borders, Parks, and Other Cosmic Imaginaries <i>Alessandra Marino</i>	281
23	Divergent Extraterrestrial Worlds: Navigating Cosmo-Practices on Two Mountaintops in Thailand <i>Lauren Reid</i>	295
PART IV		
Objects, Infrastructures, Networks, and Systems		309
24	A Glitch in Space <i>Juan Francisco Salazar</i>	311
25	Preparing for the “Internet Apocalypse”: Data Centres and the Space Weather Threat <i>A. R. E. Taylor</i>	313
26	Space Infrastructures and Networks of Control and Care <i>Katarina Damjanov</i>	328
27	Mexico Dreams of Satellites <i>Anne W. Johnson</i>	339
28	Space Codes: The Astronaut and the Architect <i>Fred Scharmen</i>	351
PART V		
Cultures in Orbit/Life in Space		363
29	Cosmic Waters <i>Julie Patarin-Jossec</i>	365

Contents

30	Unearthing Biosphere 2, Biosphere 2 as Un-Earthing <i>Ralo Mayer</i>	371
31	Living and Working in “The Great Outdoors”: Astronautics as Everyday Work in NASA’s Skylab Programme <i>Phillip Brooker and Wes Sharrock</i>	388
32	Adapting to Space: The International Space Station Archaeological Project <i>Justin St. P. Walsh</i>	400
33	An Ethnography of an Extraterrestrial Society: The International Space Station <i>David Jeevendrampillai, Victor Buchli, Aaron Parkhurst, Adryon Kozel, Giles Bunch, Jenia Gorbanenko and Makar Tereshin</i>	413
34	Plant Biologists and the International Space Station: Institutionalising a Scientific Community <i>Paola Castaño</i>	427
35	Whiteboards, Dancing, Origami, Debate: The Importance of Practical Wisdom for Astrophysicists and Instrument Scientists <i>Fionagh Thomson</i>	441
36	Understanding the Question of Whether to Message Extraterrestrial Intelligence <i>Chelsea Haramia</i>	454
37	Astrobiology and the Immanence of Life amidst Uncertainty <i>Dana Burton</i>	468
38	A Post-Geocentric Gravitography of Human Culture <i>Alice Gorman</i>	480
	<i>Index</i>	493