

Contents

Acknowledgements 9

Abstract 11

1. Preface: A Volcano Named ‘Cabrón’ 13

2. Introduction: The Seismo-Volcanic Crisis of El Hierro 17

3. The Study Area: El Hierro, Canary Islands 25

3.1. Location, Climate, and Population of the Canary Islands 25

3.2. Some Facts about El Hierro’s Population and Economy 27

3.2.1. Overview of the Island: Population and Settlements 27

3.2.2. The Seismic Crisis and a Drop in Population? 28

3.2.3. Economy and Tourism: A Fragile Island? 30

3.2.4. The Seismic Crisis and a Drop in Tourism? 33

3.3. *Un solo pueblo?* – The Administrative Structure of the Canary Islands 34

3.4. The Canary Islands Plan for Civil Protection Against Volcanic Risks 37

3.4.1. Hierarchical Structure of Spain’s Civil Protection 37

3.4.2. PEVOLCA – Organising Volcanic Risks 37

3.4.3. One Volcanic Risk – Shared Responsibilities between
National and Regional Actors 38

3.4.4. Volcanic Traffic Light – Synchronising Volcanic Activity and Response 41

4. A Scientist’s View on Volcanic Risks on El Hierro, Canary Islands 45

4.1. From Myth to Science to Mystical Controversy:
Stories of the Canary Islands’ Origin 45

4.2. The ‘Imperfect’ Hot Spot of the Canary Islands 47

4.3. El Hierro – A ‘Pyramid’ of Basalt 50

4.4. Exploring the Past: Volcanic Risk between Estimation,
Exaggeration, and ‘Concealment’? 53

4.5. El Hierro’s Seismo-Volcanic Event from the View of Volcanology 57

4.5.1. Seismic Anomaly: The Pre-Eruptive Phase (July 2011 – October 2011)	58
4.5.2. Uncertainty about Explosiveness: The Eruption (October 2011 – March 2012)	60
4.5.3. Seismic Unrest: After the Eruption (March 2012 – March 2014)	62
5. Culturally Borne Disasters	65
5.1. Opening Up and Bridging the Gap(s) of Disaster Rationales	66
5.1.1. A Brief (and Incomplete) History of What Is Meant to Be a Disaster	66
5.1.2. DRR Practice and the Trenches of Rationales	70
5.1.3. Local Knowledge – A Bridge over the Gap(s)?	75
5.1.4. Interim Conclusion: Four Axioms for Further Research	79
5.1.5. Another ‘Myth’: Islands and Insularity – Entity or Delusion?	79
5.2. The Cultural Sense of Disasters	86
5.3. Phenomenon I: Risk ‘In-Between’ Individual and Collective Experience	89
5.4. Phenomenon II: ‘Truth’ and Ambiguities	91
6. Geography of Risk Inspired by a Pragmatist Notion of Praxis	95
6.1. Truth Relativism and the Basics of Practice Theory	95
6.2. Fields of Practice and the Arena of Singularities	98
6.2.1. Fields of Practice	99
6.2.2. Stream of Experiences and Stabilised Rationales	100
6.2.3. Ruptures as Singularities	104
6.2.4. The ‘Arena’ of Singularities	105
6.3. Interim Conclusion: Rivaling Fields of Practice in the Wake of a Disaster	106
6.4. Disasters as Breaching Experiments?	108
6.5. Resulting Questions for This Case Study	108
7. Research Design and Methodological Approach	111
7.1. First Contact with the Research Field	111
7.2. The Process: Shifting Research Focus	113
7.3. Grounded Theory and DRR	113
7.3.1. Grounded Theory as a Key to Individuals’ ‘Theories of Risk’	113
7.3.2. Basic Idea of GTM: Data-Driven Research	116
7.3.3. The Epistemological Orientation of GTM	116
7.3.4. Abduction: A Pragmatist’s Approach to Sudden Inspirations	120
7.3.5. Exploration and Experience-Making as a Way of Research	123
7.3.6. Research Process with GTM	124
7.4. Theoretical Sampling and Methodological Tools	127
7.4.1. First Phase – ‘Remote Sensing’ Medial Coverage and Comments	127
7.4.2. Second Phase – Detecting Continuities and Ruptures in Everyday Life	128
7.4.3. Third Phase – Identifying Fields of Practice, Rationales, and Singularities	130
7.4.4. Fourth Phase – Going into Dialogue with the Data (2014–2018)	133

7.4.5. Overall Characteristics of the Sampling Groups	133
8. Disaster Experiences in Rivalling Fields of Practice	137
8.1. A View on the Past: Did Volcanic Risk Matter?	137
8.1.1. Excursus: The Seismic Crisis of 1793	137
8.1.2. Out of Eruption, out of Mind?	141
8.1.3. The Seismic Crisis as a Rupture of Aesthetics	144
8.2. The Practice of Being <i>Herreño</i>	147
8.2.1. The Community-Defining Concepts of Being <i>Herreño</i>	148
8.3. Staging a Disaster and Re-staging a Community	161
8.3.1. "It's Not Real" – La Restinga 'Killed' by the Alarmist News Media	161
8.3.2. Rationale: Sensationalism as the Cause of the 'Seismo-Volcanic Crisis'	166
8.3.3. "The Monster is Rising" – How Real is the Unreal in the Media?	167
8.3.4. ›Breaking Normalcy‹ – the '(Ir-)Rationale' of Disaster Journalism	179
8.3.5. Two Competing Scripts: 'Alarm' versus 'Calm'	181
8.3.6. Rupture between Disaster Narratives and Experience – "Seismic Violence Ruptures the Message of Tranquillity"	182
8.3.7. Ambiguity as a Key Phenomenon	183
8.3.8. Experienced Ambiguity: The Evacuations	183
8.3.9. Comments as an Arena of Singularities: The Case of the 'Masked Avenger'	185
8.3.10. Practices of Counter-Staging: Managing Disaster Vocabulary and Images	190
8.3.11. Interim Conclusion: Staging a Disaster and Re-staging a Community	195
8.4. The Thin Red Line of Civil Protection	197
8.4.1. "Prepared for What's Planned, the Unexpected Arises"	197
8.4.2. Phenomenon: Communicating Uncertainty Is a Tightrope Walk	200
8.4.3. Midpoint Practice: Resolving the Dilemma	203
8.4.4. Strategy: Speaking with a Single Voice	205
8.4.5. Strategy: Run with the Pack – Proactive Information Management	206
8.4.6. Objective: Re-Education – Living in Certainty with Uncertainty	210
8.4.7. Interim Conclusion: Education as the Solution?	214
8.5. Science: The Power of Risk Construction	216
8.5.1. Eradicating Contingency and The Practice of Mapping Volcanic Risks	216
8.5.2. The Rationale of the Field of Hazard Research	219
8.5.3. IGN – Scientific Power by Decree	221
8.5.4. INVOLCAN – Fighting for Volcanic Autonomy	223
8.5.5. Contingent Scientific Legitimacy – "Who Has the Seismic Network Has the Power"	226
8.6. Summary: Rivalling Fields of Practice in the Case of El Hierro's Seismic Crisis	231
9. Conclusion: Disaster Experiences Emerging from Rivalling Fields of Practice	235

References 241

Illustration Index 265

Index of Tables 267

Abbreviations 269

List of Interviews..... 271