Contents

Acknowledgments - VII

```
Introduction: 1783 - A Year of Wonders — 1
    Previous Scholarship — 4
    Research Focus — 16
    Methods — 17
        Environmental History — 17
        Climate History and the Little Ice Age —— 19
        Disaster History — 22
        History of Science — 24
        Deep Geological Time — 25
        Teleconnections — 27
    Sources — 28
    Structure — 33
   A Volcano Comes to Life — 35
2
    The Geological Formation of Iceland — 35
    Icelandic Volcanism in the Holocene — 41
    Icelandic Volcanoes in Historical Times — 46
    Before the Laki Eruption — 54
    The Laki Eruption — 60
        Kirkjubæjarklaustur and the Fire Districts — 60
        The Fire Priest — 63
        Pollution and Environmental Impact of the Laki Eruption in Iceland — 73
        Móðuharðindin, the Famine of the Mist — 77
        The Danish Response to the Crisis — 81
        The Road to Recovery — 84
    Shaking the World — 88
    History of Geology — 88
        Volcanoes: A Topic of Meteorology —— 88
        Natural Sciences in the Late Eighteenth Century —— 91
    Historical Context — 94
        1783: The End of the American Revolution and "Ballomania" in Europe —— 94
        Earthquakes in Lisbon and Calabria — 100
        Nýey: A Burning "New Island" — 107
        The Weather of the 1780s — 109
    The Summer of 1783 — 112
        The Extraordinary Dry Fog of 1783 —— 112
        The Extreme Heat of Summer —— 132
```

```
Thunderclaps and Lightning —— 135
        Earthquakes in Europe and Beyond — 144
        Fever and Mortality — 150
        The End of the Fog — 153
       The Harvest — 156
        A Year of Awe — 159
    Reactions to the Unusual Weather — 160
        The Response to the Dry Fog —— 160
        The Voice of Reason — 161
        A Search for Precedents — 164
        Blaming the Superstitious —— 167
        Fears of the Fog —— 170
   The Speculation about the Cause of the Unusual Weather —— 171
       A Naturalist's Perspective — 172
       Active Volcanoes, Active Imaginations — 174
       A Time of a Subsurface Revolution — 184
        Elektrizitätstaumel: Are Lightning Rods to Blame? —— 188
        The Fireball —— 191
        Experiments on the Origin of the Dry Fog — 196
        News from Iceland — 198
        Speculating about a Connection — 200
   The Summer of 1783 outside of Europe —— 205
        The Western Hemisphere — 205
        The Eastern Hemisphere — 211
   The Winter of 1783/1784: A Touch of Frost —— 215
       The Winter in Europe — 215
       Ice Drift and Flooding in Europe — 221
        The Winter in North America — 226
        Searching for a Connection — 230
    Outlook — 231
        Cold Temperatures Continued — 231
        Annus Arcanus —— 235
4 The Mystery Remains — 238
   Myth and Legend — 238
   A Search in Vain — 245
   Sveinn Pálsson — 248
   A Clearer Picture — 257
   Rediscovering Sveinn Pálsson — 264
   The Krakatau Eruption of 1883 — 266
   The Dots Connected — 272
```

Field Trips to the Laki Fissure —— 277 Lifting the Fog of Ignorance — 281 Conclusions: A Modern Perspective on the Laki Eruption — 283 Continental Drift, Plate Tectonics, and Mantle Plumes —— 289 History and Geology — 291 Future Research — 294 The Bigger Picture: Lessons for the Present and Future —— 295 Outlook: The Present and the Future — 298 The 200-Year Anniversary of the Laki Eruption —— 298 Skafáreldahraun - The Laki Lava Field — 301 Iceland and Its Volcanoes in the Future — 305 Illustrations — 309 Bibliography — 321 Archived Primary Sources — 321 Published Primary Sources — 323 Published Secondary Sources — 332 Online Primary and Secondary Resources — 366

Index — 373