

# TABLE OF CONTENTS

I. Volcanogenic floods in Iceland: An exploration of hazards and risks.....	7
<i>Emmanuel Pagneux, Sigrún Karlsdóttir, Magnús T. Gudmundsson, Matthew J. Roberts, and Viðir Reynisson</i>	
II. Örafajökull Volcano: Geology and historical floods .....	17
<i>Matthew J. Roberts and Magnús T. Gudmundsson</i>	
III. Örafajökull Volcano: Eruption melting scenarios .....	45
<i>Magnús T. Gudmundsson, Þórdís Högnadóttir, and Eyjólfur Magnússon</i>	
IV. Örafajökull Volcano: Numerical simulations of eruption-induced jökulhlaups using the SAMOS flow model .....	73
<i>Ásdís Helgadóttir, Emmanuel Pagneux, Matthew J. Roberts, Esther H. Jensen, and Eiríkur Gíslason</i>	
V. Öräfi district and Markarfljót outwash plain: Rating of flood hazards .....	101
<i>Emmanuel Pagneux and Matthew J. Roberts</i>	
VI. Öräfi district and Markarfljót outwash plain: Spatio-temporal patterns in population exposure to volcanogenic floods .....	123
<i>Emmanuel Pagneux</i>	
VII. Örafajökull: Evacuation time modelling of areas prone to volcanogenic floods.....	141
<i>Emmanuel Pagneux</i>	

