TABLE OF CONTENTS

		Page
Dedicati		
Acknow Table of	i vii ix	
List of Figures		
List of T		xlv
Chapter		Page
1	INTRODUCTION	1-1
2	CEPHALONIA ISLAND AND AREAS COVERED	2-1
2.1	Cephalonia island	2-1
2.2	Focus Reconnaissance Locations	2-7
3	GEER/EERI/ATC TEAM	3-1
4	DOCUMENTATION AND CONTRIBUTIONS	4-1
5	SEISMIC HISTORY AND HAZARD	5-1
5.1 5.2	Historical Earthquakes Seismic Hazard Evaluation	5-1 5-16
6	GEOLOGY AND SEISMOTECTONICS	6-1
6.1 6.2	Geology and Geomorphology Seismotectonics	6-1 6-11
7	SEISMOLOGICAL AND STRONG MOTION ASPECTS	7-1
7.1	First Main Event of January 26, 2014	7-2
7.2	Second Main Event of February 3, 2014	7-15
7.3	Remote Sensing Interferometry	7-19
8	GEOTECHNICAL OBSERVATIONS	8-1
8.1 8.2 8.3 8.4 8.5 8.6 8.7	Site effects Liquefaction, Ports & Waterfront Earth Retaining Structures Landslides and Rock Falls Bridges Embankments and Landfills Settlement and Soil-Structure Interaction	8-1 8-17 8-84 8-107 8-125 8-132 8-142
9	RIGID BLOCKS	9-1
9.1	Overview and Key Observations	9-1
9.2	Detailed Reconnaissance	9-15
9.3	Statistics of observed failures in cemeteries	9-29
10	INFRASTRUCTURE NETWORKS	10-1
10.1 10.2	Potable and Wastewater Networks Transportation Road Network	10-1 10-16

11	STRUCTURAL OBSERVATIONS	11-1
11.1	Main Structural Observations	11-1
11.2	Building Inventory and Construction Types	11-7
11.3	Damage Assessment	11-8
11.4	Typical damage patterns by construction type	11-12
11.5	Structural behavior based on seismic codes	11-24
11.6	Special cases of structural interest	11-38
11.7	Public Buildings	11-46
11.8	Churches	11-52
11.9	Nonstructural Components	11-63
12	COMMUNITY PREPAREDNESS & RESPONSE	12-1
13	CONCLUSIONS AND RECOMMENDATIONS	13-1
14	REFERENCES	14-1