

Contents

1 Preface	1
2 The International Seismological Centre	2
2.1 The ISC Mandate	2
2.2 Brief History of the ISC	3
2.3 Former Directors of the ISC and its U.K. Predecessors	4
2.4 Member Institutions of the ISC	5
2.5 Sponsoring Organisations	9
2.6 Data Contributing Agencies	11
2.7 ISC Staff	18
3 Availability of the ISC Bulletin	24
4 Citing the International Seismological Centre	25
5 Operational Procedures of Contributing Agencies	27
5.1 Seismic Monitoring and Data Processing at the Norwegian National Seismic Network	27
5.1.1 Introduction	27
5.1.2 Seismic Network	27
5.1.3 Data Processing	31
5.1.4 Seismicity Database	35
5.1.5 Acknowledgements	37
5.1.6 References	40
5.2 The Finnish National Seismic Network	41
5.2.1 Introduction	41
5.2.2 Seismicity of Finland and Surroundings	41
5.2.3 History of the FNSN and Present Network Status	42
5.2.4 Automatic Event Detection and Location System	44
5.2.5 Interactive Analysis of Local and Regional Events	47
5.2.6 Annual Earthquake Bulletin	50
5.2.7 Data Availability	50
5.2.8 Acknowledgments	50
5.2.9 References	51
6 The ISC Rebuild Project	53
7 Summary of Seismicity, January - June 2015	56

8 Statistics of Collected Data	61
8.1 Introduction	61
8.2 Summary of Agency Reports to the ISC	61
8.3 Arrival Observations	66
8.4 Hypocentres Collected	72
8.5 Collection of Network Magnitude Data	74
8.6 Moment Tensor Solutions	79
8.7 Timing of Data Collection	82
9 Overview of the ISC Bulletin	84
9.1 Events	84
9.2 Seismic Phases and Travel-Time Residuals	93
9.3 Seismic Wave Amplitudes and Periods	99
9.4 Completeness of the ISC Bulletin	101
9.5 Magnitude Comparisons	102
10 The Leading Data Contributors	107
10.1 The Largest Data Contributors	107
10.2 Contributors Reporting the Most Valuable Parameters	109
10.3 The Most Consistent and Punctual Contributors	114
11 Appendix	115
11.1 ISC Operational Procedures	115
11.1.1 Introduction	115
11.1.2 Data Collection	115
11.1.3 ISC Automatic Procedures	116
11.1.4 ISC Location Algorithm	120
11.1.5 Review Process	130
11.1.6 History of Operational Changes	131
11.2 IASPEI Standards	132
11.2.1 Standard Nomenclature of Seismic Phases	132
11.2.2 Flinn-Engdahl Regions	139
11.2.3 IASPEI Magnitudes	146
11.2.4 The IASPEI Seismic Format (ISF)	150
11.2.5 Ground Truth (GT) Events	152
11.2.6 Nomenclature of Event Types	154
11.3 Tables	155
12 Glossary of ISC Terminology	174
13 Acknowledgements	178
References	179