

Contents

Preface — X

Introduction — XVI

Part I: The Passerine Station

1 Methods of the Field Work — 2

1.1 Catching — 2

1.2 Visual Observations — 4

2 Passerine Station Field Equipment — 8

2.1 Mist-nets — 8

2.1.1 Net Poles and Fixing Strings — 13

2.2 Heligoland Traps — 17

2.2.1 Operation Baltic Transportable Heligoland Trap — 17

2.2.2 The Rybatchy-type Trap — 20

2.2.3 Zigzag Trap — 25

2.3 Funnel Traps — 30

3 Passerine Station Laboratory Equipment — 31

3.1 Bird Transport and Storage Devices — 31

3.2 Laboratory Tools — 37

3.2.1 The Orientation Tests Equipment — 39

3.3 Rings — 43

3.4 Ringing Stand — 45

4 Arrangement of the Netting Area — 51

4.1 Land Habitats — 51

4.2 Wetland Habitats — 56

4.3 Documentation of the Netting Area — 58

5 Using Catching Devices — 62

5.1 Netting — 62

5.2 Extracting Birds From the Net — 63

5.2.1 Special Tips When Removing the Birds — 68

5.3 Standard Set of Nets — 72

5.4 Special Netting — 74

5.5 Attracting the Birds to Nets and Traps — 75

5.6 How to Arrange Trapping with Heligoland Traps — 78

6	Passerine Station Laboratory Methods — 81
6.1	Species Determination and Coding — 81
6.2	Sex/Age Determination and Coding — 86
6.3	Standard Set of Measurements — 88
6.4	Standard Descriptions of Measurements — 89
6.5	Additional Measurements and Scores — 98
6.6	Special Studies — 102
6.6.1	Directional Preferences of Nocturnal Migrants — 102
6.6.2	Additional Tips — 110
6.6.3	The Study of Molt — 110
6.6.4	Molt Data — 112
6.7	Field Ringing/Data-Collecting Form — 113
7	Passerine Station Laboratory Working Routine — 118
7.1	Normal Routine — 119
7.1.1	Two-person Procedure — 119
7.1.2	Three-person Procedure — 121
7.2	Extended Routines — 122
7.3	Alarm Routine — 123

Part II: The Wader Station

8	Wader Catching Techniques — 130
8.1	Walk-in Traps — 130
8.1.1	Arrangement of the Catching Area — 135
8.1.2	Maintenance of the Traps — 136
8.1.3	Control of the Traps — 137
8.2	Mist-Nets — 138
8.2.1	Floating Mist-Nets — 141
8.2.2	Single Shelf Mist-Nets — 142
8.2.3	Mist-Nets for Catching Waders in Intertidal Areas — 142
8.3	Leg-Hold Noose-Mats — 143
9	Wader Station Laboratory Equipment — 145
9.1	Wader Transport and Storage Devices — 145
9.2	Ringing and Measuring Tools — 145
10	Wader Station Laboratory Methods — 148
10.1	Standard Set of Measurements and Scores — 148
10.2	Additional Measurements and Scores — 152

11 Wader Station Laboratory Working Routine — 159

12 Wader Counts — 160

Part III: General Issues

13 Training Beginners: Bird Measurements — 164

14 Bird Mortality and Welfare — 166

14.1 Catching Devices — 168

14.2 The Catching Process — 170

14.3 Birds and the Weather/Habitat Factor — 171

14.4 Removal and Transport of Birds Caught — 172

14.5 Laboratory Work — 172

15 Ringer's Safety and Health — 176

15.1 General — 176

15.2 Health Problems — 180

15.3 People — 182

15.4 Life Conditions — 182

16 Alternative Methods of Holding and Measuring Birds — 184

17 Non Standard Ringing Procedures — 193

18 Julian Date and Pentade Numbering — 198

References — 201

List of Figures — 203

List of Tables — 209

Index — 210