ISO 16665:2014-01 (E)

Water quality - Guidelines for quantitative sampling and sample processing of marine soft-bottom macrofauna

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Termsanddefinitions 1
2.1 Ecological or biological concepts 2
2.2 Surveys and samples 2

3 Strategies and objectives for soft-bottom faunal surveys 3
3.1 Sampling programme and plan 3
3.2 Positioning of sampling stations 3
3.3 Reference stations 5
3.4 Types of survey 5
3.5 Change in sampling programme and intercalibration 8

4 Sampling 8
4.1 Documentation and field log 8
4.2 Sampling and sample processing in the field 10
4.3 Sample fixation 13
4.4 Background environmental descriptors 14

5 Sample processing in the laboratory 17
5.1 Sorting 17
5.2 Sample residue 18

6 Taxondeterminationandquantification 18
6.1 Level of identification and taxon lists 18
6.2 Quantification 19
6.3 Reference collection 19
6.4 Biomass 20
6.5 Data reporting 20
6.6 Storage and archiving 20

7 Quality assurance and quality control 21
7.1 General 21
7.2 Auditing 21
7.3 Equipment calibration and operating safety 21
7.4 Training 22
7.5 Checklists, sample log and anomaly reporting 22
7.6 Quality of sample sorting 22
7.7 Quality of taxon identification 22
7.8 Identification literature 23
7.9 Reference and collection 23

Annex A (informative) Sampling devices 24

Annex B (informative) Processing of samples with live specimens 29

Annex C (informative) Biomass measurements 30

Annex D (informative) Processing particularly large samples 32

Bibliography 33