

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	Terms and definitions	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	Taxon determination and quantification	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