

ISO 6420:2016-10 (E)

Hydrometry - Position fixing equipment for hydrometric boats

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements for position fixing	1
5	Position fixing equipment for streamgauging and sediment sampling	1
5.1	General	1
5.2	Tapes and tag lines	2
5.3	Global navigation satellite systems	2
5.3.1	General	2
5.3.2	Hydrometric application	3
5.3.3	System specifications	3
5.4	Targets and electronic distance measuring equipment	3
5.4.1	General	3
5.4.2	Targets	3
5.4.3	Electronic distance measuring devices	3
5.5	Electronic survey instruments	4
5.6	Theodolites	4
5.6.1	Theodolites and stadia	4
5.6.2	Angular technique	4
6	Position fixing equipment for morphological surveys	5
6.1	General	5
6.2	Global navigation satellite systems	5
6.3	Electronic surveying instruments	5
6.4	Theodolites and stadia rods	6
7	Uncertainty	6
7.1	Definition of uncertainty	6
7.2	Uncertainty of position fixing for streamgauging and sediment sampling	7
7.2.1	General	7
7.2.2	Tag lines	7
7.2.3	Global navigation satellite systems	7
7.2.4	Targets and distance measuring devices	8
7.2.5	Electronic surveying instruments	8
7.2.6	Theodolites	8
7.3	Uncertainty of position fixing for morphological surveys	8
7.3.1	General	8
7.3.2	Global navigation satellite systems	9
7.3.3	Electronic surveying instruments	9
7.3.4	Triangulation method using theodolites	9
Annex A (informative)	Evaluation of uncertainty components	10
Bibliography		12