

# ISO 19156:2011-12 (E)

## Geographic information - Observations and measurements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Conformance .....</b>	<b>1</b>
2.1	Overview .....	1
2.2	Conformance classes related to Application Schemas including Observations and Measurements .....	1
<b>3</b>	<b>Normative references .....</b>	<b>2</b>
<b>4</b>	<b>Terms and definitions .....</b>	<b>3</b>
<b>5</b>	<b>Abbreviated terms and notation .....</b>	<b>5</b>
5.1	Abbreviated terms .....	5
5.2	Schema language .....	5
5.3	Model element names .....	6
<b>6</b>	<b>Dependencies .....</b>	<b>6</b>
<b>7</b>	<b>Fundamental characteristics of observations .....</b>	<b>6</b>
7.1	The context for observations .....	6
7.2	Observation schema .....	8
7.3	Use of the observation model .....	15
<b>8</b>	<b>Specialized observations .....</b>	<b>15</b>
8.1	Classification of observation by result type .....	15
8.2	Observations whose result is constant .....	16
8.3	Observations whose result varies .....	17
<b>9</b>	<b>Fundamental characteristics of sampling features .....</b>	<b>19</b>
9.1	The context for sampling .....	19
9.2	Sampling Schema .....	20
<b>10</b>	<b>Spatial sampling features .....</b>	<b>24</b>
10.1	The context for spatial sampling features .....	24
10.2	Spatial sampling feature schema .....	24
10.3	Decomposition of extensive sampling features for observations .....	26
10.4	Common names for sampling features (informative) .....	26
<b>11</b>	<b>Specimens .....</b>	<b>27</b>
11.1	The context for specimens .....	27
11.2	Specimen schema .....	27
<b>Annex A (normative) Abstract Test Suite .....</b>		<b>30</b>
<b>Annex B (informative) Mapping O&amp;M terminology to common usage .....</b>		<b>35</b>
<b>Annex C (normative) Utility classes .....</b>		<b>38</b>

<b>Annex D (informative) Best practices in use of the observation and sampling models .....</b>	<b>40</b>
<b>Bibliography .....</b>	<b>46</b>