

Appendix G. Animal Necropsy

NOTE: The following is the proposed data schema definition (XSD) followed by the documentation for *Animal Necropsies* records that will be encoded onto the *HealthMAP* information system.

```

<?xml version="1.0" encoding="UTF-8"?>
<schema targetNamespace="http://data.gcoos.org/mmhmap/xml/1.0"
  xmlns="http://www.w3.org/2001/XMLSchema" xmlns:gml="http://www.opengis.net/gml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:mmc="https://www.mmc.gov/"
  xmlns:dc="http://purl.org/dc/elements/1.1/" elementFormDefault="qualified" version="1.0.0.2"
  xml:lang="en">

  <!-- This is the original version of MMC LevelA subforms (as of 2017-03-06) -->
  <annotation>
    <documentation>
      <dc:description>
        This XML Schema defines the recommended Marine Mammal Commission Level A XML elements and
        types for subforms to record animal updates.
      </dc:description>
    </documentation>
  </annotation>

  <!-- =====
                        Element: Record identifier
  ===== -->

  <element name="recordIdentifier">
    <annotation>
      <documentation>
        <dc:description>
          Record identifier based on a proposed persistent record identifier for HealthMAP
        </dc:description>
      </documentation>
    </annotation>
    <complexType>
      <sequence>
        <element name="recId" type="string" minOccurs="0"/>
        <element name="organization" type="string" minOccurs="0"/>
        <element name="localId" type="string" minOccurs="0"/>
        <element name="animalId" type="string" minOccurs="0"/>

        <element name="animalIdCount">
          <simpleType>
            <restriction base="integer">
              <minInclusive value="0"/>
              <maxInclusive value="999"/>
            </restriction>
          </simpleType>
        </element>

      </sequence>
    </complexType>
  </element>

  <!-- =====
                        Element: Animal Update, Necropsy
  ===== -->

  <element name="animalNecropsy">
    <annotation>

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<documentation>
  <dc:description>
    Details on the animal Necropsy
  </dc:description>
</documentation>
</annotation>
<complexType>
  <sequence>
    <element name="animalNecropsyate" type="date" minOccurs="0"/>
    <element name="animalNecropsyTime" type="time" minOccurs="0"/>
    <element name="determinationAnimalNecropsyTime">
      <simpleType>
        <restriction base="string">
          <pattern value="actual|estimate"/>
        </restriction>
      </simpleType>
    </element>
    <element name="animalNecropsyTimeZone" type="string" minOccurs="0"/>
    <element name="animalNecropsyPeriodRemarks" type="string" minOccurs="0"/>
    <element name="animalNecropsyLocation">
      <simpleType>
        <restriction base="string">
          <pattern value="Same as initial event location|Rehabilitation Facility|Others"/>
        </restriction>
      </simpleType>
    </element>
    <element name="animalNecropsyBy" type="string" minOccurs="0"/>
    <element name="animalNecropsyLifeStage">
      <simpleType>
        <restriction base="string">
          <pattern value="sexually mature|sexually immature|unknown"/>
        </restriction>
      </simpleType>
    </element>
    <element name="determinationanimalNecropsyStage">
      <complexType>
        <sequence>
          <element name="determinationStageAge">
            <simpleType>
              <restriction base="string">
                <pattern value="true|false"/>
              </restriction>
            </simpleType>
          </element>
          <element name="determinationStageAssocOffspring">
            <simpleType>
              <restriction base="string">
                <pattern value="true|false"/>
              </restriction>
            </simpleType>
          </element>
          <element name="determinationStageExtMorp">

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    <simpleType>
      <restriction base="string">
        <pattern value="true|false"/>
      </restriction>
    </simpleType>
  </element>
  <element name="determinationStageExtMorpRemote">
    <simpleType>
      <restriction base="string">
        <pattern value="true|false"/>
      </restriction>
    </simpleType>
  </element>
  <element name="determinationStageInteralGrossExam">
    <simpleType>
      <restriction base="string">
        <pattern value="true|false"/>
      </restriction>
    </simpleType>
  </element>
  <element name="determinationStageUltrasound">
    <simpleType>
      <restriction base="string">
        <pattern value="true|false"/>
      </restriction>
    </simpleType>
  </element>
  <element name="determinationStageOthers">
    <simpleType>
      <restriction base="string">
        <pattern value="true|false"/>
      </restriction>
    </simpleType>
  </element>
  <element name="determinationStageRemarks" type="string" minOccurs="0"/>
</sequence>
</complexType>
</element>
<element name="animalNecropsyConditionCode">
  <simpleType>
    <restriction base="string">
      <pattern
        value="alive||fresh dead|moderate decomposition|advanced
decomposition|mummified/skeletal|dead, condition unknown"
      />
    </restriction>
  </simpleType>
</element>
<element name="carcassStatus">
  <simpleType>
    <restriction base="string">
      <pattern

```

```

        value="left at site|buried|rendered|lanfilled|incinerated|composted|towed|sunk|others|unknown"
    />
</restriction>
</simpleType>
</element>
<element name="carcassCondition">
    <simpleType>
        <restriction base="string">
            <pattern
                value="fresh|frozen/thawed"
            />
        </restriction>
    </simpleType>
</element>
</sequence>
</complexType>
</element>
<!-- =====
                        Element: Animal Update, Weigh|Morphometrics
===== -->
<element name="animalMorphometrics">
    <annotation>
        <documentation>
            <dc:description>
                Morphometric details of the animal Necropsy
            </dc:description>
        </documentation>
    </annotation>
    <complexType>
        <sequence>
            <element name="morphometricsDate" type="date" minOccurs="0"/>
            <element name="morphometricsTime" type="time" minOccurs="0"/>
            <element name="morphometricsItem">
                <simpleType>
                    <restriction base="string">
                        <pattern value="partial|whole"/>
                    </restriction>
                </simpleType>
            </element>
            <element name="morphometricsItemRemarks" type="string" minOccurs="0"/>
            <element name="morphometricsStandardLength">
                <complexType>
                    <sequence>
                        <element name="morphometricsStandardLengthMeasure" type="float"
                            minOccurs="0"/>
                        <element name="morphometricsStandardLengthUnit" type="string"
                            minOccurs="0"/>
                        <element name="morphometricsStandardLengthCertainty">
                            <simpleType>
                                <restriction base="string">
                                    <pattern value="actual|estimate"/>
                                </restriction>
                            </simpleType>
                        </element>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>

```

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        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>
<element name="morphometricsMaxGirth">
  <complexType>
    <sequence>
      <element name="morphometricsMaxGirthMeasure" type="float" minOccurs="0"/>
      <element name="morphometricsMaxGirthUnit" type="string" minOccurs="0"/>
      <element name="morphometricsMaxGirthCertainty">
        <simpleType>
          <restriction base="string">
            <pattern value="actual|estimate"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>
<element name="morphometricsBladderDepthSternal">
  <complexType>
    <sequence>
      <element name="morphometricsBladderDepthSternalMeasure" type="float"
        minOccurs="0"/>
      <element name="morphometricsBladderDepthSternalUnit" type="string"
        minOccurs="0"/>
      <element name="morphometricsBladderDepthSternalCertainty">
        <simpleType>
          <restriction base="string">
            <pattern value="actual|estimate"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>
<element name="morphometricsBodyMass">
  <complexType>
    <sequence>
      <element name="morphometricsBodyMassMeasure" type="float" minOccurs="0"/>
      <element name="morphometricsBodyMassUnit" type="string" minOccurs="0"/>
      <element name="morphometricsBodyMassCertainty">
        <simpleType>
          <restriction base="string">
            <pattern value="actual|estimate"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>

```

```
</sequence>  
</complexType>  
</element>
```

```
</schema>
```

Schema documentation for animalNecropsy.xsd

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Namespace: "http://data.gcoos.org/mmhmap/xml/1.0"

Schema(s)

Main schema animalNecropsy.xsd

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Annotations	<code><dc:description></code> This XML Schema defines the recommended Marine Mammal Commission Level A XML elements and types for subforms to record animal updates. <code></dc:description></code>
Properties	attribute form default: unqualified
	element form default: qualified
	version: 1.0.0.2

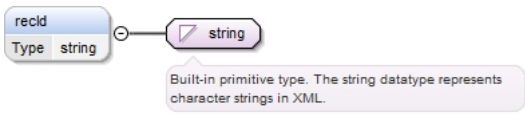
Element(s)

Element recordIdentifier

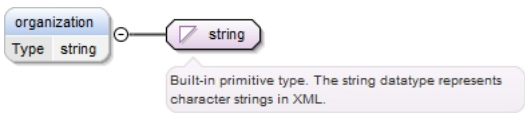
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Annotations	<code><dc:description></code> Record identifier based on a proposed presistent record identifier for HealthMAP <code></dc:description></code>
Diagram	<p>The diagram shows the structure of the <code>recordIdentifier</code> element. It is a complex element (indicated by a yellow circle with a plus sign) that contains five child elements, each in a blue box with a plus sign: <code>recId</code> (Type: string), <code>organization</code> (Type: string), <code>localId</code> (Type: string), <code>animalId</code> (Type: string), and <code>animalIdCount</code> (Type: restriction of 'integer'). A callout box for <code>recordIdentifier</code> contains the description: "Record identifier based on a proposed presistent record identifier for HealthMAP..."</p>
Properties	content: complex
Model	<code>recId{0,1}</code> , <code>organization{0,1}</code> , <code>localId{0,1}</code> , <code>animalId{0,1}</code> , <code>animalIdCount</code>
Children	<code>animalId</code> , <code>animalIdCount</code> , <code>localId</code> , <code>organization</code> , <code>recId</code>
Instance	<pre><recordIdentifier xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <recId>{0,1}</recId> <organization>{0,1}</organization> <localId>{0,1}</localId> <animalId>{0,1}</animalId> <animalIdCount>{1,1}</animalIdCount> </recordIdentifier></pre>
Source	<pre><element name="recordIdentifier"> <annotation> <documentation> <dc:description>Record identifier based on a proposed presistent record identifier for HealthMAP</dc:description> </documentation> </annotation> <complexType> <sequence> <element name="recId" type="string" minOccurs="0"/> <element name="organization" type="string" minOccurs="0"/> <element name="localId" type="string" minOccurs="0"/> <element name="animalId" type="string" minOccurs="0"/> <element name="animalIdCount"> <simpleType> <restriction base="integer"> <minInclusive value="0"/> <maxInclusive value="999"/> </restriction> </simpleType> </element> </sequence> </complexType></pre>

</element>

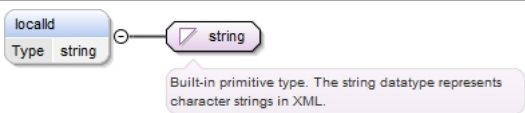
Element recordIdentifier / recId

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple minOccurs: 0
Source	<code><element name="recId" type="string" minOccurs="0"/></code>

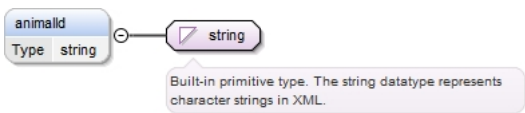
Element recordIdentifier / organization

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple minOccurs: 0
Source	<code><element name="organization" type="string" minOccurs="0"/></code>

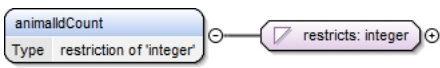
Element recordIdentifier / localId

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple minOccurs: 0
Source	<code><element name="localId" type="string" minOccurs="0"/></code>

Element recordIdentifier / animalId

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple minOccurs: 0
Source	<code><element name="animalId" type="string" minOccurs="0"/></code>

Element recordIdentifier / animalIdCount

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of integer

Properties	content: simple
Facets	maxInclusive 999
	minInclusive 0
Source	<pre> <element name="animalIdCount"> <simpleType> <restriction base="integer"> <minInclusive value="0"/> <maxInclusive value="999"/> </restriction> </simpleType> </element> </pre>

Element animalNecropsy

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Annotations	<dc:description>Details on the animal Necropsy</dc:description>
Diagram	
Properties	content: complex
Model	animalNecropsyate{0,1} , animalNecropsyTime{0,1} , determinationAnimalNecropsyTime , animalNecropsyTimeZone{0,1} , animalNecropsyPeriodRemarks{0,1} , animalNecropsyLocation , animalNecropsyBy{0,1} , animalNecropsyLifeStage , determinationanimalNecropsyStage , animalNecropsyConditionCode , carcassStatus , carcassCondition
Children	animalNecropsyBy, animalNecropsyConditionCode, animalNecropsyLifeStage, animalNecropsyPeriodRemarks, animalNecropsyTime, animalNecropsyTimeZone, animalNecropsyate, animalNecropsyLocation, carcassCondition, carcassStatus, determinationAnimalNecropsyTime, determinationanimalNecropsyStage
Instance	<pre> <animalNecropsy xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <animalNecropsyate>{0,1}</animalNecropsyate> <animalNecropsyTime>{0,1}</animalNecropsyTime> <determinationAnimalNecropsyTime>{1,1}</determinationAnimalNecropsyTime> <animalNecropsyTimeZone>{0,1}</animalNecropsyTimeZone> <animalNecropsyPeriodRemarks>{0,1}</animalNecropsyPeriodRemarks> <animalNecropsyLocation>{1,1}</animalNecropsyLocation> <animalNecropsyBy>{0,1}</animalNecropsyBy> <animalNecropsyLifeStage>{1,1}</animalNecropsyLifeStage> <determinationanimalNecropsyStage>{1,1}</determinationanimalNecropsyStage> <animalNecropsyConditionCode>{1,1}</animalNecropsyConditionCode> <carcassStatus>{1,1}</carcassStatus> <carcassCondition>{1,1}</carcassCondition> </pre>

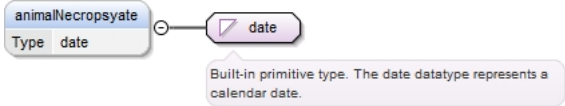
	</animalNecropsy>
Source	<pre> <element name="animalNecropsy"> <annotation> <documentation> <dc:description>Details on the animal Necropsy</dc:description> </documentation> </annotation> <complexType> <sequence> <element name="animalNecropsyate" type="date" minOccurs="0"/> <element name="animalNecropsyTime" type="time" minOccurs="0"/> <element name="determinationAnimalNecropsyTime"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> <element name="animalNecropsyTimeZone" type="string" minOccurs="0"/> <element name="animalNecropsyPeriodRemarks" type="string" minOccurs="0"/> <element name="animalNecropsyLocation"> <simpleType> <restriction base="string"> <pattern value="Same as initial event location Rehabilitation Facility Others"/> </restriction> </simpleType> </element> <element name="animalNecropsyBy" type="string" minOccurs="0"/> <element name="animalNecropsyLifeStage"> <simpleType> <restriction base="string"> <pattern value="sexually mature sexually immature unknown"/> </restriction> </simpleType> </element> <element name="determinationanimalNecropsyStage"> <complexType> <sequence> <element name="determinationStageAge"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageAssocOffspring"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageExtMorp"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageExtMorpRemote"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageInteralGrossExam"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageUltrasound"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageOthers"> <simpleType> </pre>

```

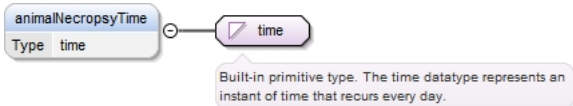
        <restriction base="string">
          <pattern value="true|false"/>
        </restriction>
      </simpleType>
    </element>
    <element name="determinationStageRemarks" type="string" minOccurs="0"/>
  </sequence>
</complexType>
</element>
<element name="animalNecropsyConditionCode">
  <simpleType>
    <restriction base="string">
      <pattern value="alive|fresh dead|moderate decomposition|advanced decomposition|
mummified/skeletal|dead, condition unknown"/>
    </restriction>
  </simpleType>
</element>
<element name="carcassStatus">
  <simpleType>
    <restriction base="string">
      <pattern value="left at site|burried|rendered|lanfilled|incinerated|composted|towed|
sunk|others|unknown"/>
    </restriction>
  </simpleType>
</element>
<element name="carcassCondition">
  <simpleType>
    <restriction base="string">
      <pattern value="fresh|frozen/thawed"/>
    </restriction>
  </simpleType>
</element>
</sequence>
</complexType>
</element>

```

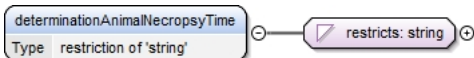
Element animalNecropsy / animalNecropsyate

Namespace	http://data.gcoos.org/mmhmap/xml/1.0	
Diagram		
Type	date	
Properties	content:	simple
	minOccurs:	0
Source	<element name="animalNecropsyate" type="date" minOccurs="0"/>	

Element animalNecropsy / animalNecropsyTime

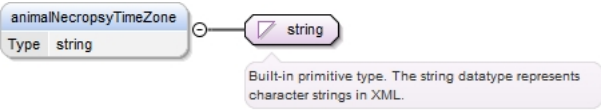
Namespace	http://data.gcoos.org/mmhmap/xml/1.0	
Diagram		
Type	time	
Properties	content:	simple
	minOccurs:	0
Source	<element name="animalNecropsyTime" type="time" minOccurs="0"/>	

Element animalNecropsy / determinationAnimalNecropsyTime

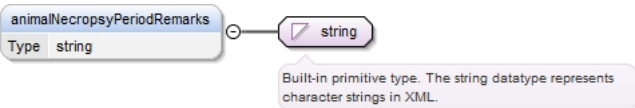
Namespace	http://data.gcoos.org/mmhmap/xml/1.0	
Diagram		

Type	restriction of string
Properties	content: simple
Facets	pattern actual estimate
Source	<pre><element name="determinationAnimalNecropsyTime"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element></pre>


Element animalNecropsy / animalNecropsyTimeZone

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>Diagram illustrating the structure of the <code>animalNecropsyTimeZone</code> element. It is connected to a <code>string</code> primitive type. A note indicates: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	string
Properties	content: simple minOccurs: 0
Source	<pre><element name="animalNecropsyTimeZone" type="string" minOccurs="0"/></pre>

Element animalNecropsy / animalNecropsyPeriodRemarks

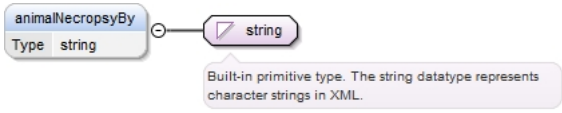
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>Diagram illustrating the structure of the <code>animalNecropsyPeriodRemarks</code> element. It is connected to a <code>string</code> primitive type. A note indicates: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	string
Properties	content: simple minOccurs: 0
Source	<pre><element name="animalNecropsyPeriodRemarks" type="string" minOccurs="0"/></pre>

Element animalNecropsy / animalNecropsyLocation

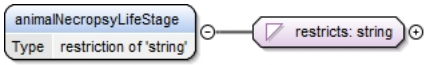
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>Diagram illustrating the structure of the <code>animalNecropsyLocation</code> element. It is connected to a <code>restriction of 'string'</code> type. A note indicates: "restricts: string".</p>
Type	restriction of string
Properties	content: simple
Facets	pattern Same as initial event location Rehabilitation Facility Others
Source	<pre><element name="animalNecropsyLocation"> <simpleType> <restriction base="string"> <pattern value="Same as initial event location Rehabilitation Facility Others"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / animalNecropsyBy

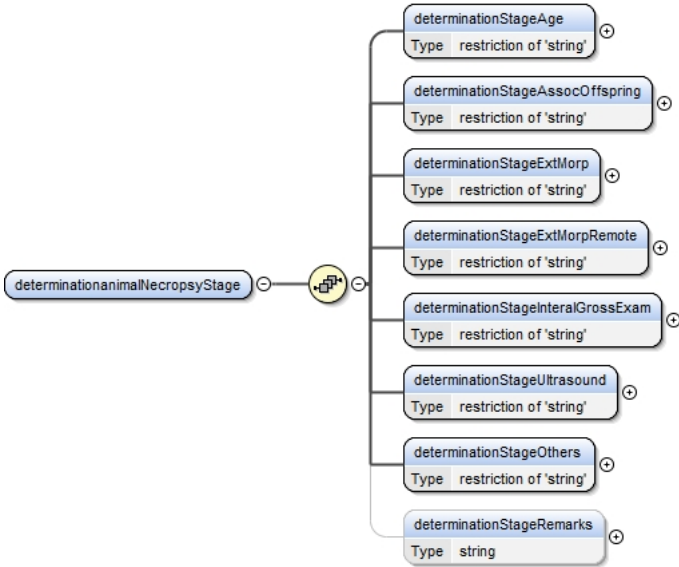
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
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Diagram					
Type	string				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Source	<code><element name="animalNecropsyBy" type="string" minOccurs="0"/></code>				

Element animalNecropsy / animalNecropsyLifeStage


Namespace	http://data.gcoos.org/mmhmap/xml/1.0		
Diagram			
Type	restriction of string		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Facets	<table> <tr> <td>pattern</td><td>sexually mature sexually immature unknown</td></tr> </table>	pattern	sexually mature sexually immature unknown
pattern	sexually mature sexually immature unknown		
Source	<pre> <element name="animalNecropsyLifeStage"> <simpleType> <restriction base="string"> <pattern value="sexually mature sexually immature unknown"/> </restriction> </simpleType> </element> </pre>		

Element animalNecropsy / determinationanimalNecropsyStage

Namespace	http://data.gcoos.org/mmhmap/xml/1.0		
Diagram			
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		
Model	determinationStageAge , determinationStageAssocOffspring , determinationStageExtMorp , determinationStageExtMorpRemote , determinationStageInternalGrossExam , determinationStageUltrasound , determinationStageOthers , determinationStageRemarks{0,1}		
Children	determinationStageAge, determinationStageAssocOffspring, determinationStageExtMorp, determinationStageExtMorpRemote, determinationStageInternalGrossExam, determinationStageOthers, determinationStageRemarks, determinationStageUltrasound		
Instance	<pre> <determinationanimalNecropsyStage xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <determinationStageAge>{1,1}</determinationStageAge> <determinationStageAssocOffspring>{1,1}</determinationStageAssocOffspring> <determinationStageExtMorp>{1,1}</determinationStageExtMorp> <determinationStageExtMorpRemote>{1,1}</determinationStageExtMorpRemote> </pre>		

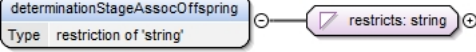
	<pre> <determinationStageInteralGrossExam>{1,1}</determinationStageInteralGrossExam> <determinationStageUltrasound>{1,1}</determinationStageUltrasound> <determinationStageOthers>{1,1}</determinationStageOthers> <determinationStageRemarks>{0,1}</determinationStageRemarks> </determinationanimalNecropsyStage> </pre>
Source	<pre> <element name="determinationanimalNecropsyStage"> <complexType> <sequence> <element name="determinationStageAge"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageAssocOffspring"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageExtMorp"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageExtMorpRemote"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageInteralGrossExam"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageUltrasound"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageOthers"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> <element name="determinationStageRemarks" type="string" minOccurs="0"/> </sequence> </complexType> </element> </pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageAge

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre> <element name="determinationStageAge"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element> </pre>


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</simpleType>
</element>
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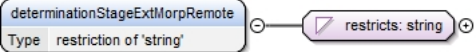
Element animalNecropsy / determinationanimalNecropsyStage / determinationStageAssocOffspring

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageAssocOffspring"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageExtMorp

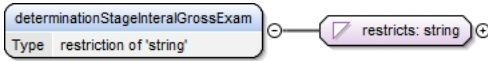
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageExtMorp"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageExtMorpRemote


Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageExtMorpRemote"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageInteralGrossExam

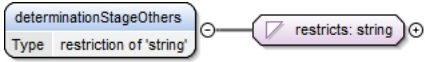
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
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Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageInternalGrossExam"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

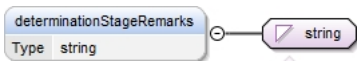
Element animalNecropsy / determinationanimalNecropsyStage / determinationStageUltrasound

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageUltrasound"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageOthers

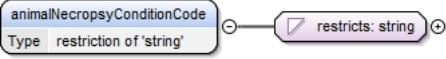
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern true false
Source	<pre><element name="determinationStageOthers"> <simpleType> <restriction base="string"> <pattern value="true false"/> </restriction> </simpleType> </element></pre>

Element animalNecropsy / determinationanimalNecropsyStage / determinationStageRemarks


Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <div data-bbox="566 1904 927 1946">Built-in primitive type. The string datatype represents character strings in XML.</div>
Type	string
Properties	content: simple

	minOccurs: 0
Source	<code><element name="determinationStageRemarks" type="string" minOccurs="0"/></code>


Element animalNecropsy / animalNecropsyConditionCode

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	<p>pattern</p> <p>alive fresh dead moderate decomposition advanced decomposition mummified/skeletal dead, condition unknown</p>
Source	<pre> <element name="animalNecropsyConditionCode"> <simpleType> <restriction base="string"> <pattern value="alive fresh dead moderate decomposition advanced decomposition mummified/skeletal dead, condition unknown"/> </restriction> </simpleType> </element> </pre>

Element animalNecropsy / carcassStatus

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	<p>pattern</p> <p>left at site burried rendered lanfilled incinerated composted towed sunk others unknown</p>
Source	<pre> <element name="carcassStatus"> <simpleType> <restriction base="string"> <pattern value="left at site burried rendered lanfilled incinerated composted towed sunk others unknown"/> </restriction> </simpleType> </element> </pre>

Element animalNecropsy / carcassCondition

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	<p>pattern</p> <p>fresh frozen/thawed</p>
Source	<pre> <element name="carcassCondition"> <simpleType> <restriction base="string"> <pattern value="fresh frozen/thawed"/> </restriction> </simpleType> </element> </pre>

Element animalMorphometrics

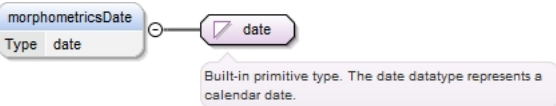
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Annotations	<dc:description>Morphometric details of the animal Necropsy</dc:description>
Diagram	
Properties	content: complex
Model	morphometricsDate{0,1} , morphometricsTime{0,1} , morphometricsItem , morphometricsItemRemarks{0,1} , morphometricsStandardLength , morphometricsMaxGirth , morphometricsBladderDepthSternal , morphometricsBodyMass
Children	morphometricsBladderDepthSternal, morphometricsBodyMass, morphometricsDate, morphometricsItem, morphometricsItemRemarks, morphometricsMaxGirth, morphometricsStandardLength, morphometricsTime
Instance	<pre> <animalMorphometrics xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <morphometricsDate>{0,1}</morphometricsDate> <morphometricsTime>{0,1}</morphometricsTime> <morphometricsItem>{1,1}</morphometricsItem> <morphometricsItemRemarks>{0,1}</morphometricsItemRemarks> <morphometricsStandardLength>{1,1}</morphometricsStandardLength> <morphometricsMaxGirth>{1,1}</morphometricsMaxGirth> <morphometricsBladderDepthSternal>{1,1}</morphometricsBladderDepthSternal> <morphometricsBodyMass>{1,1}</morphometricsBodyMass> </animalMorphometrics> </pre>
Source	<pre> <element name="animalMorphometrics"> <annotation> <documentation> <dc:description>Morphometric details of the animal Necropsy</dc:description> </documentation> </annotation> <complexType> <sequence> <element name="morphometricsDate" type="date" minOccurs="0"/> <element name="morphometricsTime" type="time" minOccurs="0"/> <element name="morphometricsItem"> <simpleType> <restriction base="string"> <pattern value="partial whole"/> </restriction> </simpleType> </element> <element name="morphometricsItemRemarks" type="string" minOccurs="0"/> <element name="morphometricsStandardLength"> <complexType> <sequence> <element name="morphometricsStandardLengthMeasure" type="float" minOccurs="0"/> <element name="morphometricsStandardLengthUnit" type="string" minOccurs="0"/> <element name="morphometricsStandardLengthCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </sequence> </complexType> </element> <element name="morphometricsMaxGirth"> <complexType> <sequence> </pre>

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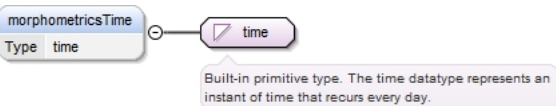
<element name="morphometricsMaxGirthMeasure" type="float" minOccurs="0"/>
<element name="morphometricsMaxGirthUnit" type="string" minOccurs="0"/>
<element name="morphometricsMaxGirthCertainty">
  <simpleType>
    <restriction base="string">
      <pattern value="actual|estimate"/>
    </restriction>
  </simpleType>
</element>
</sequence>
</complexType>
</element>
<element name="morphometricsBladderDepthSternal">
  <complexType>
    <sequence>
      <element name="morphometricsBladderDepthSternalMeasure" type="float" minOccurs="0"/>
      <element name="morphometricsBladderDepthSternalUnit" type="string" minOccurs="0"/>
      <element name="morphometricsBladderDepthSternalCertainty">
        <simpleType>
          <restriction base="string">
            <pattern value="actual|estimate"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>
<element name="morphometricsBodyMass">
  <complexType>
    <sequence>
      <element name="morphometricsBodyMassMeasure" type="float" minOccurs="0"/>
      <element name="morphometricsBodyMassUnit" type="string" minOccurs="0"/>
      <element name="morphometricsBodyMassCertainty">
        <simpleType>
          <restriction base="string">
            <pattern value="actual|estimate"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </complexType>
</element>
</sequence>
</complexType>
</element>

```

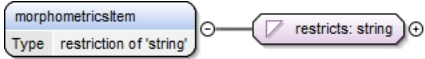
Element animalMorphometrics / morphometricsDate

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	date
Properties	content: simple minOccurs: 0
Source	<code><element name="morphometricsDate" type="date" minOccurs="0"/></code>

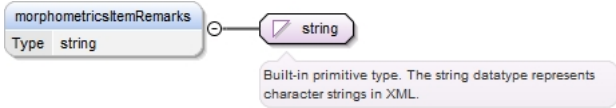
Element animalMorphometrics / morphometricsTime

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	time
Properties	content: simple minOccurs: 0
Source	<code><element name="morphometricsTime" type="time" minOccurs="0"/></code>

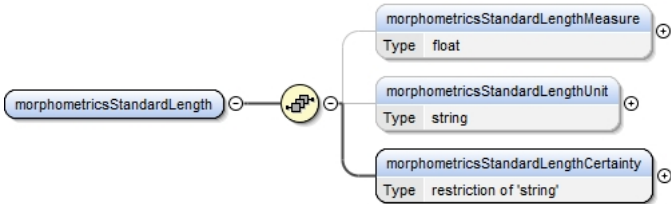
Element animalMorphometrics / morphometricsItem

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern partial whole
Source	<pre><element name="morphometricsItem"> <simpleType> <restriction base="string"> <pattern value="partial whole"/> </restriction> </simpleType> </element></pre>

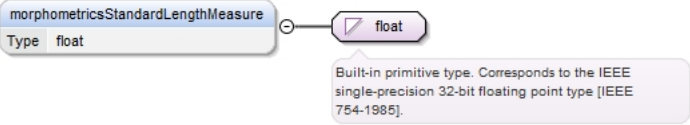
Element animalMorphometrics / morphometricsItemRemarks

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple minOccurs: 0
Source	<pre><element name="morphometricsItemRemarks" type="string" minOccurs="0"/></pre>

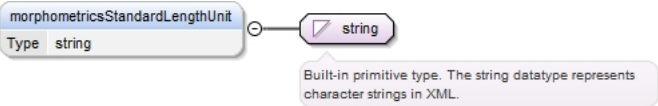
Element animalMorphometrics / morphometricsStandardLength

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Properties	content: complex
Model	morphometricsStandardLengthMeasure{0,1} , morphometricsStandardLengthUnit{0,1} , morphometricsStandardLengthCertainty
Children	morphometricsStandardLengthCertainty, morphometricsStandardLengthMeasure, morphometricsStandardLengthUnit
Instance	<pre><morphometricsStandardLength xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <morphometricsStandardLengthMeasure>{0,1}</morphometricsStandardLengthMeasure> <morphometricsStandardLengthUnit>{0,1}</morphometricsStandardLengthUnit> <morphometricsStandardLengthCertainty>{1,1}</morphometricsStandardLengthCertainty> </morphometricsStandardLength></pre>
Source	<pre><element name="morphometricsStandardLength"> <complexType> <sequence> <element name="morphometricsStandardLengthMeasure" type="float" minOccurs="0"/> <element name="morphometricsStandardLengthUnit" type="string" minOccurs="0"/> <element name="morphometricsStandardLengthCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </sequence> </complexType> </element></pre>

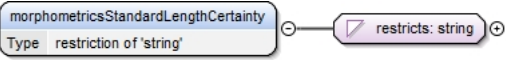
Element animalMorphometrics / morphometricsStandardLength / morphometricsStandardLengthMeasure

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>The diagram shows a box for the element <code>morphometricsStandardLengthMeasure</code> with a sub-label <code>Type float</code>. A line connects this box to a purple box labeled <code>float</code>. A callout from the <code>float</code> box states: "Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985]."</p>
Type	float
Properties	content: simple minOccurs: 0
Source	<code><element name="morphometricsStandardLengthMeasure" type="float" minOccurs="0"/></code>

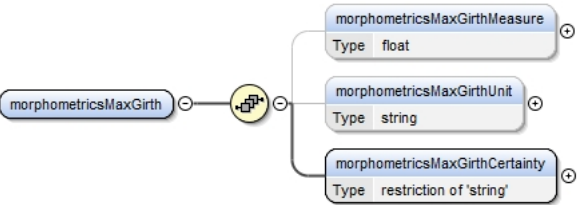
Element animalMorphometrics / morphometricsStandardLength / morphometricsStandardLengthUnit

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>The diagram shows a box for the element <code>morphometricsStandardLengthUnit</code> with a sub-label <code>Type string</code>. A line connects this box to a purple box labeled <code>string</code>. A callout from the <code>string</code> box states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	string
Properties	content: simple minOccurs: 0
Source	<code><element name="morphometricsStandardLengthUnit" type="string" minOccurs="0"/></code>

Element animalMorphometrics / morphometricsStandardLength / morphometricsStandardLengthCertainty

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>The diagram shows a box for the element <code>morphometricsStandardLengthCertainty</code> with a sub-label <code>Type restriction of 'string'</code>. A line connects this box to a purple box labeled <code>restricts: string</code> with a small circle containing a plus sign.</p>
Type	restriction of string
Properties	content: simple
Facets	pattern actual estimate
Source	<pre> <element name="morphometricsStandardLengthCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </pre>

Element animalMorphometrics / morphometricsMaxGirth

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>The diagram shows a box for the element <code>morphometricsMaxGirth</code>. A line connects it to a yellow circle containing a plus sign. From this circle, three lines branch out to three separate boxes: <code>morphometricsMaxGirthMeasure</code> (Type float), <code>morphometricsMaxGirthUnit</code> (Type string), and <code>morphometricsMaxGirthCertainty</code> (Type restriction of 'string'). Each of these three boxes has a small circle containing a plus sign.</p>
Properties	content: complex
Model	<code>morphometricsMaxGirthMeasure{0,1}</code> , <code>morphometricsMaxGirthUnit{0,1}</code> , <code>morphometricsMaxGirthCertainty</code>

Children	morphometricsMaxGirthCertainty, morphometricsMaxGirthMeasure, morphometricsMaxGirthUnit
Instance	<pre><morphometricsMaxGirth xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <morphometricsMaxGirthMeasure>{0,1}</morphometricsMaxGirthMeasure> <morphometricsMaxGirthUnit>{0,1}</morphometricsMaxGirthUnit> <morphometricsMaxGirthCertainty>{1,1}</morphometricsMaxGirthCertainty> </morphometricsMaxGirth></pre>
Source	<pre><element name="morphometricsMaxGirth"> <complexType> <sequence> <element name="morphometricsMaxGirthMeasure" type="float" minOccurs="0"/> <element name="morphometricsMaxGirthUnit" type="string" minOccurs="0"/> <element name="morphometricsMaxGirthCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </sequence> </complexType> </element></pre>

Element animalMorphometrics / morphometricsMaxGirth / morphometricsMaxGirthMeasure

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	<p>The diagram shows a box labeled 'morphometricsMaxGirthMeasure' with 'Type float' below it. A line connects this box to a 'float' primitive type box. A callout for the float type states: 'Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].'</p>
Type	float
Properties	content: simple minOccurs: 0
Source	<pre><element name="morphometricsMaxGirthMeasure" type="float" minOccurs="0"/></pre>

Element animalMorphometrics / morphometricsMaxGirth / morphometricsMaxGirthUnit

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	<p>The diagram shows a box labeled 'morphometricsMaxGirthUnit' with 'Type string' below it. A line connects this box to a 'string' primitive type box. A callout for the string type states: 'Built-in primitive type. The string datatype represents character strings in XML.'</p>
Type	string
Properties	content: simple minOccurs: 0
Source	<pre><element name="morphometricsMaxGirthUnit" type="string" minOccurs="0"/></pre>

Element animalMorphometrics / morphometricsMaxGirth / morphometricsMaxGirthCertainty

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	<p>The diagram shows a box labeled 'morphometricsMaxGirthCertainty' with 'Type restriction of 'string'' below it. A line connects this box to a 'restricts: string' box. A callout for the restriction states: 'restricts: string'.</p>
Type	restriction of string
Properties	content: simple
Facets	pattern actual estimate
Source	<pre><element name="morphometricsMaxGirthCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element></pre>


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</simpleType>
</element>

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Element animalMorphometrics / morphometricsBladderDepthSternal

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Properties	content: complex
Model	morphometricsBladderDepthSternalMeasure{0,1} , morphometricsBladderDepthSternalUnit{0,1} , morphometricsBladderDepthSternalCertainty
Children	morphometricsBladderDepthSternalCertainty, morphometricsBladderDepthSternalMeasure, morphometricsBladderDepthSternalUnit
Instance	<pre> <morphometricsBladderDepthSternal xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <morphometricsBladderDepthSternalMeasure>{0,1}</morphometricsBladderDepthSternalMeasure> <morphometricsBladderDepthSternalUnit>{0,1}</morphometricsBladderDepthSternalUnit> <morphometricsBladderDepthSternalCertainty>{1,1}</morphometricsBladderDepthSternalCertainty> </morphometricsBladderDepthSternal> </pre>
Source	<pre> <element name="morphometricsBladderDepthSternal"> <complexType> <sequence> <element name="morphometricsBladderDepthSternalMeasure" type="float" minOccurs="0"/> <element name="morphometricsBladderDepthSternalUnit" type="string" minOccurs="0"/> <element name="morphometricsBladderDepthSternalCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </sequence> </complexType> </element> </pre>

Element animalMorphometrics / morphometricsBladderDepthSternal / morphometricsBladderDepthSternalMeasure

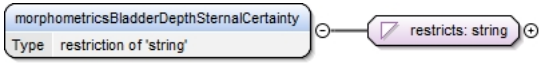
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	float
Properties	content: simple minOccurs: 0
Source	<pre> <element name="morphometricsBladderDepthSternalMeasure" type="float" minOccurs="0"/> </pre>

Element animalMorphometrics / morphometricsBladderDepthSternal / morphometricsBladderDepthSternalUnit

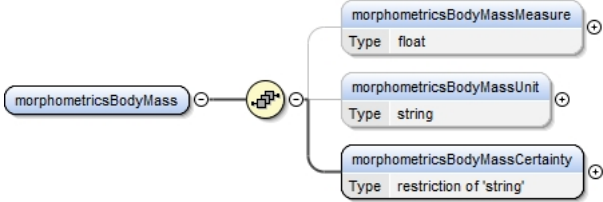
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	string
Properties	content: simple

	minOccurs: 0
Source	<code><element name="morphometricsBladderDepthSternalUnit" type="string" minOccurs="0"/></code>

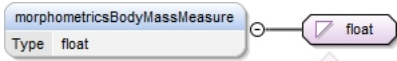
Element animalMorphometrics / morphometricsBladderDepthSternal / morphometricsBladderDepthSternalCertainty

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern actual estimate
Source	<pre><element name="morphometricsBladderDepthSternalCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element></pre>

Element animalMorphometrics / morphometricsBodyMass

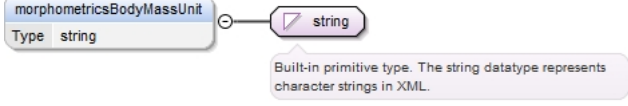
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Properties	content: complex
Model	morphometricsBodyMassMeasure{0,1} , morphometricsBodyMassUnit{0,1} , morphometricsBodyMassCertainty
Children	morphometricsBodyMassCertainty, morphometricsBodyMassMeasure, morphometricsBodyMassUnit
Instance	<pre><morphometricsBodyMass xmlns="http://data.gcoos.org/mmhmap/xml/1.0"> <morphometricsBodyMassMeasure>{0,1}</morphometricsBodyMassMeasure> <morphometricsBodyMassUnit>{0,1}</morphometricsBodyMassUnit> <morphometricsBodyMassCertainty>{1,1}</morphometricsBodyMassCertainty> </morphometricsBodyMass></pre>
Source	<pre><element name="morphometricsBodyMass"> <complexType> <sequence> <element name="morphometricsBodyMassMeasure" type="float" minOccurs="0"/> <element name="morphometricsBodyMassUnit" type="string" minOccurs="0"/> <element name="morphometricsBodyMassCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </sequence> </complexType> </element></pre>

Element animalMorphometrics / morphometricsBodyMass / morphometricsBodyMassMeasure

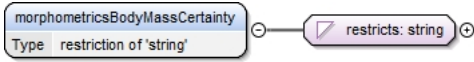
Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <div>Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].</div>

Type	float
Properties	content: simple
	minOccurs: 0
Source	<code><element name="morphometricsBodyMassMeasure" type="float" minOccurs="0"/></code>

Element animalMorphometrics / morphometricsBodyMass / morphometricsBodyMassUnit

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	 <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	string
Properties	content: simple
	minOccurs: 0
Source	<code><element name="morphometricsBodyMassUnit" type="string" minOccurs="0"/></code>

Element animalMorphometrics / morphometricsBodyMass / morphometricsBodyMassCertainty

Namespace	http://data.gcoos.org/mmhmap/xml/1.0
Diagram	
Type	restriction of string
Properties	content: simple
Facets	pattern actual estimate
Source	<pre> <element name="morphometricsBodyMassCertainty"> <simpleType> <restriction base="string"> <pattern value="actual estimate"/> </restriction> </simpleType> </element> </pre>