

## Questionnaire on the status, trade and conservation of non CITES-listed anguillid eels

The term 'specimen' as used in this questionnaire is as defined in Article I, paragraph b) i) and ii) of the Convention on International Trade in Endangered Species of Wild Fauna and Flora<sup>1</sup>

### A. NATIONAL AND GLOBAL CONSERVATION STATUS

*Please provide as much information as possible in answer to the questions below – the information should cover at least the last ten years unless otherwise stated<sup>2</sup>*

Country		<b>JAMAICA</b>					
Function of agency completing this questionnaire (CITES Management Authority, CITES Scientific Authority, Wildlife Authority, Police, Customs, Other)		<b>CITES SCIENTIFIC AUTHORITY MINISTRY OF INDUSTRY, COMMERCE, AGRICULTURE AND FISHERIES</b>					
Contact details of agency/agencies completing this questionnaire		<b>VETERINARY SERVICES DIVISION</b>					
CONTACT PERSON (NAME, EMAIL, JOB TITLE, FUNCTION)		<b>DR. WINTORPH MARSDEN, SENIOR VETERINARY OFFICER DR. MISHKA STENNETT, SENIOR VETERINARY OFFICER</b>					
<b>A.1</b>	Is your country a range State of anguillid eels?	<p style="text-align: center;">Yes <input checked="" type="checkbox"/>          No <input type="checkbox"/>          Don't know <input type="checkbox"/></p> <p>If 'Yes', please indicate which species<sup>3</sup> occur in your country. If 'No', please proceed to Section B.2.1.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 70%;">Species</th> <th style="width: 30%;"></th> </tr> </thead> <tbody> <tr> <td><i>Anguilla australis</i></td> <td style="text-align: center;">Yes <input type="checkbox"/>          No <input type="checkbox"/></td> </tr> </tbody> </table>		Species		<i>Anguilla australis</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Species							
<i>Anguilla australis</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>						

<sup>1</sup> (b) "Specimen" means:  
(i) any animal or plant, whether alive or dead;  
(ii) in the case of an animal: for species included in Appendices I and II, any readily recognizable part or derivative thereof; and for species included in Appendix III, any readily recognizable part or derivative thereof specified in Appendix III in relation to the species

<sup>2</sup> Please use additional sheets for any question, if needed.

<sup>3</sup> Three additional species names are occasionally used in relation to freshwater eels – *Anguilla labiata*, *Anguilla malgumora* and *Anguilla nebulosa*. *A. labiata* is sub-population of *A. bengalensis*, primarily found in Africa and should be referred to as the latter. *A. malgumora* is a synonym for *A. borneensis* and should be referred to as the latter. *A. nebulosa* is a synonym for *A. bengalensis* and should be referred to as the latter.

		<i>Anguilla bengalensis</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla bicolor</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla borneensis</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla celebesensis</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla dieffenbachia</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla interioris</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla japonica</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla luzonensis</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla marmorata</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla megastoma</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla mossambica</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla obscura</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla reinhardtii</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		<i>Anguilla rostrata</i>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>A.2</b>	Does information exist about the biology of some, or all of, the anguillid species in your country?			
	<p style="text-align: center;">Yes <input type="checkbox"/> <span style="margin-left: 200px;">No <input checked="" type="checkbox"/></span></p> <p>If 'Yes', please provide a link(s), reference(s) or additional information - personal experience and/or communications can be included:</p> <p><i>N/A</i></p>			

**A.3.1** Does recent information exist about the population status of some, or all of, the anguillid species in your country?  
 Yes  No

If 'Yes', based on the best available information, what was the status of the wild population of *Anguilla* species in your country over the last 20 years:

Species	Increase	Stable	Decrease	Unknown
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please indicate the source(s) of information your answer is based on – personal experience and/or communications can be included:  
 N/A

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**A.3.2** In your country, what is/are considered the major threat(s) to *Anguilla* species, listed alphabetically below:  
 Barriers to migration (including hydro-power)  Climate change  Disease / Parasites  Habitat loss/modification   
 Pollution  Predation  **Unsustainable/illegal harvest and/or trade**  Other (please describe)

Please indicate the source(s) of information your answer is based on – personal experience and/or communications can be included:

**B. HARVEST CONSUMPTION AND TRADE**

<p><b>B.1.1</b></p>	<p>Are <i>Anguilla</i> species harvested in your country?</p> <p align="center">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please provide link(s), reference(s) or additional information, paying particular reference to species, life stage, location of harvest and method of harvest.</p> <p><i>A. rostrata are wild caught from two of Jamaica's major rivers, the Martha Brae and Black River. They are harvested at the glass eel stages using scoop nets.</i></p>
<p><b>B.1.2</b></p>	<p>If 'Yes', please indicate the end use(s) of each species of harvested eel – please copy and paste the text below if more sections are needed for multiple species:</p> <p>Species name:</p> <p align="center">Direct domestic consumption <input type="checkbox"/> <b>For grow-out in domestic farms</b> <input checked="" type="checkbox"/> National re-stocking <input type="checkbox"/></p> <p align="center">Export for grow-out in farms <input type="checkbox"/> Export for direct consumption <input type="checkbox"/> Export for re-stocking <input type="checkbox"/> Other uses (please describe) <input type="checkbox"/></p> <p>Please indicate the source(s) of information your answer is based on:</p> <p><i>Under the Aquaculture, Inland and Marine product and their by-products Act and Regulation, all export of glass eels requires an export license from the Veterinary Services Division. This usually captures the quantity request to be exported</i></p> <p>Species name:</p> <p align="center">Direct domestic consumption <input type="checkbox"/> For grow-out in domestic farms <input type="checkbox"/> National re-stocking <input type="checkbox"/></p> <p align="center">Export for grow-out in farms <input type="checkbox"/> Export for direct consumption <input type="checkbox"/> Export for re-stocking <input type="checkbox"/> Other uses (please describe) <input type="checkbox"/></p> <p>Please indicate the source(s) of information your answer is based on:</p>

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<b>B.2.1</b>	<p>Are <i>Anguilla</i> species (including <i>Anguilla anguilla</i>) consumed in your country?</p> <p style="text-align: center;">         Yes <input type="checkbox"/> <span style="margin-left: 200px;"><b>No</b> <input checked="" type="checkbox"/></span> </p> <p>If 'Yes', please provide details of what species and life stages are consumed</p> <p>If No, please go to B.3.1.</p>
<b>B.2.2</b>	<p>If 'Yes', for how long have <i>Anguilla</i> eels been consumed in your country? <b>N/A</b></p> <p style="text-align: center;">         0-5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 10-20 years <input type="checkbox"/> 21-50 years <input type="checkbox"/> &gt;50 years <input type="checkbox"/> Don't know <input type="checkbox"/> </p>
<b>B.2.3</b>	<p>If 'Yes', what is/are the source(s) of the <i>Anguilla</i> eels for consumption? <b>N/A</b></p> <p style="text-align: center;">         Domestic harvest <input type="checkbox"/> Domestic farms <input type="checkbox"/> Imported (wild-caught) <input type="checkbox"/> Imported (farmed) <input type="checkbox"/> Other (please describe) <input type="checkbox"/> </p> <p>Where possible, please provide further details of these sources (e.g. main species consumed and source countries).</p>



<b>B.3.4</b>	<p>If 'Yes', please provide details of the end use of <i>Anguilla</i> spp. that are farmed - please copy and paste the text below if extra sections are needed for multiple species:</p> <p><b>Species name:</b></p> <p style="text-align: center;">         Direct domestic consumption <input type="checkbox"/>    For grow-out in domestic farms <input type="checkbox"/>    National re-stocking <input type="checkbox"/>          Export for direct consumption <input type="checkbox"/>    Export for grow-out in farms <input type="checkbox"/>    Export for re-stocking <input type="checkbox"/>    Other uses (please describe) <input type="checkbox"/> </p> <p>If farmed eels are exported, please provide information on export destinations.</p> <p><b>Species name:</b></p> <p style="text-align: center;">         Direct domestic consumption <input type="checkbox"/>    Input into domestic farms for further on-growing <input type="checkbox"/>    National re-stocking <input type="checkbox"/>          Export for direct consumption <input type="checkbox"/>    Export for grow-out in farms <input type="checkbox"/>    Export for re-stocking <input type="checkbox"/>    Other uses (please describe) <input type="checkbox"/> </p> <p>If farmed eels are exported, please provide information on export destinations.</p> <p><b>Species name:</b></p> <p style="text-align: center;">         Direct domestic consumption <input type="checkbox"/>    Input into domestic farms for further on-growing <input type="checkbox"/>    National re-stocking <input type="checkbox"/>          Export for direct consumption <input type="checkbox"/>    Export for grow-out in farms <input type="checkbox"/>    Export for re-stocking <input type="checkbox"/>    Other uses (please describe) <input type="checkbox"/> </p> <p>If farmed eels are exported, please provide information on export destinations.</p>
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**C.1.4**

Please provide information on how international trade of *Anguilla* species is regulated and what is permitted or forbidden in your country.

Species	Title, date of enactment, and relevant provisions of national legislation

**C.2**

Has your country experienced any challenges with regard to implementing any of the legislation and/or initiatives described in section C1?

Yes

No

If 'Yes', please provide details.



<b>D.3</b>	<p>What government agency enforces border and domestic <i>trade</i> laws for American eels in your country? Please provide the name of contact person(s) from this department/agency.</p> <p><b>Dr. Osbil Watson, Director of Veterinary Services Division, Ministry of Industry, Commerce, Agriculture and Fisheries, Kingston 6 Tele : 876-977-2489</b></p>														
<b>D.3.1</b>	<p>What measures/tools do you use to ensure compliance with American eel trade laws? (i.e. databases to track trade, border inspections and searches, document/permit/license reviews, etc.) <b>The issuance of an Export Health Certificate and Export License</b></p>														
<b>D.4</b>	<p>Have there been any reported incidents of illegal imports or exports of American eel in your country?</p> <p style="text-align: center;">Yes <input type="checkbox"/> <span style="margin-left: 200px;"><b>No</b> <input checked="" type="checkbox"/></span></p> <p>If 'Yes', please go to question D.4.1 and provide details.</p>														
<b>D. 4.1</b>	<p>If you answered yes, where possible, please provide information on the illegal trade (export/import)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Timeframe: 2008 to Present:</td> </tr> <tr> <td style="width: 30%;">Number of Incidents</td> <td></td> </tr> <tr> <td>Number of specimens/Size of Seizures(kg)</td> <td></td> </tr> <tr> <td>Life stage/product of the harvested <i>Anguilla</i> species (elver, adult eel, processed meat, leather, etc)</td> <td></td> </tr> <tr> <td>Trade Routes Used (Country of origin/transit/destination)</td> <td></td> </tr> <tr> <td>Nature of Violations (i.e.: violations regarding border declarations/permits, smuggling methods, other)</td> <td></td> </tr> <tr> <td>Method in which the specimens were transported/declared</td> <td></td> </tr> </table>	Timeframe: 2008 to Present:		Number of Incidents		Number of specimens/Size of Seizures(kg)		Life stage/product of the harvested <i>Anguilla</i> species (elver, adult eel, processed meat, leather, etc)		Trade Routes Used (Country of origin/transit/destination)		Nature of Violations (i.e.: violations regarding border declarations/permits, smuggling methods, other)		Method in which the specimens were transported/declared	
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<b>D.4.2</b>	<p>Has your country experienced any challenges with the enforcement of American eel harvest and/or trade laws?</p> <p style="text-align: center;">Yes <input type="checkbox"/> <span style="margin-left: 200px;"><b>No</b> <input checked="" type="checkbox"/></span></p> <p>If yes, please provide details in D.4.3 and D.4.4:</p>
<b>D. 4.3</b>	<p>Please provide details about any enforcement challenges you've experienced with regard to D.4.2.</p> <p><b>N/A</b></p>
<b>D. 4.4</b>	<p>Please describe if and how you have overcome these enforcement challenges described in D.4.2.</p> <p><b>N/A</b></p>
<b>D. 5</b>	<p>How does your country monitor domestic and international trade in American eel? Does your country have any mechanisms in place that would support this?</p> <p><b>N/A</b></p>