CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES 
OF WILD FAUNA AND FLORA

Eighteenth meeting of the Conference of the Parties
Colombo (Sri Lanka), 23 May – 3 June 2019

Species specific matters

SEAHORSES (HIPPOCAMPUS SPP.) ON CITES
– A ROADMAP TO SUCCESS

1. This document has been submitted by Maldives, Monaco, Sri Lanka and the United States of America.¹

Overview

2. Seahorses (Hippocampus spp.) were the first marine fishes brought onto CITES Appendix II at CoP12 (Santiago, Chile, November 2002 along with whale sharks and basking sharks. In contrast to those sharks, though, seahorses are traded in large numbers, with millions of individuals of tens of species moving in international trade each year. They were the first “fully marine” fish species (i.e., one that lives in a marine environment throughout its entire life cycle) to be taken through the Review of Significant Trade (in three rounds), the first for which Recommendations were generated, and the first for which a trade suspension was imposed (for Hippocampus kuda from Viet Nam). They are also the first for which a Non-Detriment Finding (NDF) framework was developed. Much good work has been done to implement the inclusion of seahorses in Appendix II of CITES, but the large volumes of illegal trade remain of great concern, as is a lack of monitoring of wild populations by Parties to allow robust science-based NDFs.

3. This document summarizes the history of the inclusion of seahorses in Appendix II of CITES, explores progress in implementation, discusses capacity building, notes the trends in trade since the inclusion of these species in CITES, and raises issues that need attention. It also proposes Decisions for CITES to address current concerns.

Inclusion of seahorses in Appendix II of CITES

4. All species of seahorse (Hippocampus spp., 44 species at the time of writing¹) are included in Appendix II of CITES. At the time the genus was proposed for listing at CoP12, six species (H. barbouri, H. comes, H. erectus, H. ingens, H. reidi and H. spinosissimus) were recognized as threatened by international trade and were proposed for inclusion in Appendix II in accordance with Article II, paragraph 2(a) of the Convention². The remaining species in the genus (26 described species at the time of the proposal – all assessed as Data Deficient on the IUCN Red List at the time) were proposed for inclusion in CITES Appendix II in accordance with Article II, paragraph 2(b) of the Convention for similarity of appearances².

5. Information available at the time of the inclusion of all seahorses in Appendix II of CITES indicated that the international trade in seahorses was large, multi-species focused and global – involving 70 tonnes (~24 million animals) across 23 species and at least 75 countries². The trade in dried specimens dominated exports but capture of seahorses for the aquarium trade exerted considerable pressure on particular species.

¹ The geographical designations employed in this document do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat (or the United Nations Environment Programme) concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.

² As of November 2018 there are 44 seahorse species recognized by the IUCN Seahorse, Pipefish and Stickleback Specialist Group (SPS SG) (https://iucn-seahorse.org/our-species/complete-scientific/291-2).

in certain areas. Most dried seahorses were caught as bycatch in non-selective fishing gears such as bottom trawls and gillnets while live seahorses were generally targeted in small-scale fisheries. The majority of dried seahorses were exported from Thailand, India, Mexico, the Philippines and Viet Nam and sent to mainland China, Hong Kong SAR, Singapore, and Taiwan, Province of China for use as traditional medicines. The smaller but significant trade in live seahorses for private and public aquaria – estimated at about 854,000 animals per year – came primarily from the Philippines, Indonesia, and Brazil to North America, Europe, Japan, and Taiwan, Province of China.

6. The exploitation and trade in seahorses, coupled with damage and destruction of their vulnerable inshore habitats, was reportedly resulting in widespread population declines. Fishery-dependent data and interviews with fishers collected between 1990 and 1995 estimated populations to have declined by 15-75% over a period of 3-10 years in India, Indonesia, the Philippines and Thailand. Seahorse numbers in the wild appear to have also declined in the Western Atlantic and Eastern Pacific (data from Mexico, Honduras, Brazil, Guatemala, Costa Rica, Panama and Ecuador).

7. CITES first became involved with the management and conservation of seahorses at CoP11 when a Working Group was formed to consider document Doc. 11.36, submitted by the United States of America and Australia. As a result, the Parties adopted two decisions, one directed to the Animals Committee (Decision 11.97) and another to the Secretariat (Decision 11.153). In fulfillment of Decision 11.153, the CITES Secretariat convened a technical workshop on seahorses and other members of the family Syngnathidae in 2002. Based on the information presented and outcomes of the workshop, the Animals Committee recommended that all species of seahorses, genus Hippocampus, should be included in Appendix II of CITES. The Parties adopted a proposal to list seahorses in Appendix II at CoP12 with an 18-month delay in implementation to allow Parties time to develop means to make NDFs, and was accompanied by four Decisions: 12.53–12.56, none of which are currently in force.

8. Decision 12.53 requested that CITES Management Authorities strengthen their collaboration and cooperation regarding management of Hippocampus species with appropriate fisheries agencies. Decision 12.56 invited the World Customs Organization to develop harmonized codes for live seahorses, dried seahorses, live pipefishes (and pipehorses), and dried pipefishes (and pipehorses). Decisions 12.54 and 12.55 are addressed in appropriate paragraphs below.

**Implementation of the inclusion of seahorses in Appendix II of CITES**

**Implementation challenges**

9. The inclusion of seahorses in Appendix II of CITES posed implementation challenges. Trade in seahorses regularly occurred in large volumes and included shipments containing a large number of individual specimens that could also include a mix of multiple species that look quite similar to border officials. The trade also involved small animals that can be easily traded illicitly. Additionally, the trade involved countries from all continents except Antarctica.

10. In anticipation of implementation challenges, a significant amount of groundwork had been laid by the time the inclusion of seahorses in Appendix II of CITES came into effect in 2004. In support of Decision 12.55, a

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5 [CoP12 Doc. 43](https://www.cites.org/sites/default/files/eng/cop/12/doc/E12-43.pdf)

6 Decision 12.55: The Nomenclature Committee shall propose a standard taxonomy for species in the genus Hippocampus.
new guide on seahorse taxonomy had been created\(^7\), and in support of Decision 12.54\(^8\) the CITES Animals Committee had recommended a standard minimum size limit (MSL = 10 cm height\(^9\)) for all seahorses in trade, regardless of species\(^10\). This would allow Parties to make initial NDFs as they strove to develop more precise decision tools\(^11\).

11. In May 2004, a workshop was held in Mazatlan, Mexico\(^12\), that focused on implementing the inclusion of seahorses in Appendix II of CITES. This workshop, organized by the United States, brought together 43 participants from nine countries, with representatives from CITES Parties, the CITES Secretariat, fisheries agencies, non-governmental organizations, industry, academia and public aquariums. Recommendations from the workshop included initial guidance on making NDFs by setting the minimum size limit, protecting seahorse habitats from damage and destruction (including by fishing gear) and making legal acquisition findings and enforcing existing national laws (including bans on fishing/trawling in closed areas). In addition, the Mazatlan workshop participants noted the need for the certification or registration of captive breeding facilities, along with new methods to mark captive bred seahorses. General criteria for acceptable and “non-detrimental” aquaculture operations could emphasize assessment of rearing capacity, preventing release of cultured animals into the wild (see also paragraph 17) and limited reliance on wild broodstock.

**Review of Significant Trade**

12. The Review of Significant Trade (RST) process has now encompassed eight seahorse species – the first fully marine fishes to go through the process since the Convention came into force more than 40 years ago\(^13\).

13. The process revealed that although seahorses were traded in large volumes (see paragraph 25), most major exporting Parties were struggling with implementation. The first round of RST involving seahorses began at AC23 (April 2008) for *H. kelloggi*, *H. kuda* and *H. spinosissimus* – Asian species that together comprised 54% of the total reported wild export volumes in the CITES database from 2004-2011\(^14\). The second round involving seahorses began at AC25 (July 2011) for *H. algiricus* (West African), *H. barbouri*, *H. histrix* and *H. trimaculatus* (all Asian species) – which together comprised 42% of reported wild export volumes in the CITES database from 2004-2011\(^14\). The third round, launched at AC27 (April 2014) covered *H. erectus*, a Western Atlantic species for which trade data indicated a sudden increase in exports in 2009\(^15\).

14. When queried during the three rounds of RST, only one Party included NDF documentation for its wild seahorse exports – the USA for its small exports of *H. erectus*\(^13\). Most range States justified not making NDFs for their wild exports of focal species because they either i) did not trade wild specimens or ii) would no longer allow exports of wild specimens. Indeed, the RST may have triggered suspension of exports from five Parties\(^13\).

15. From the 78 range States selected for preliminary review across the eight species\(^13\), the AC decided that four should be given Recommendations for action, across five species: Thailand for *H. kelloggi*, *H. kuda*, *H. spinosissimus* and *H. trimaculatus*; Viet Nam for *H. kuda*; and Guinea and Senegal for *H. algiricus*. Cumulatively these range States accounted for 98% of reported wild exports of these five species in the

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\(^{8}\) Decision 12.54: The Animals Committee shall identify a minimum size limit for specimens of all Hippocampus species in trade as one component of an adaptive management plan, and as a simple precautionary means of making initial non-detrimental findings in accordance with Article IV of the Convention

\(^{9}\) Seahorse height is measured from top of coronet to tip of outstretched tail.


\(^{11}\) This recommendation was shared with Parties in notification No. 2004/033 (https://www.cites.org/sites/default/files/eng/notif/2004/033.pdf)


\(^{13}\) A detailed account of RST is available in Foster, S. J. 2016. Seawords (Hippocampus spp.) and the CITES Review of Significant Trade; Fisheries Centre Research Reports 24: 48 pp.

CITES trade database from 2004-2011\textsuperscript{14}. The recommended suspension of imports from Viet Nam at SC63 (March 2013)\textsuperscript{15} was the first ever decided for a fully marine fish listed on Appendix II.

16. As of November 2018, the RST has prompted the end of permitted exports from Party/species combinations that together comprised 98% of reported wild seahorse exports across all species in the CITES database from 2004-2011\textsuperscript{14}. In some cases, historically major exporting Parties responded to the RST process by choosing to suspend exports (including China, Indonesia, Malaysia, Thailand, Viet Nam)\textsuperscript{13} and in others CITES recommended trade suspensions after Parties failed to meet their obligations under the RST (including Guinea, Senegal\textsuperscript{16} and Viet Nam\textsuperscript{15}, though Viet Nam’s suspension was lifted at SC70 after Viet Nam indicated that exports of wild-sourced specimens will no longer be permitted\textsuperscript{17}).

Common issues in making NDFs revealed during RST process

17. The RST process brought to light two common issues that Parties encountered when making NDFs. Below are the two issues identified from the RST process:

a) Protected areas were often assumed to provide automatic conservation benefits to seahorses. The most commonly reported mitigation measures during RST were the existence of spatial restrictions, temporal restrictions, or both on fishing effort\textsuperscript{13} although the presence of seahorses in these protected areas were not confirmed prior to establishment and the benefits to seahorses were not analyzed or presented.

b) RST only applies to wild-caught specimens. Nonetheless, Party documentation in support of the RST revealed that sale of captive bred F1 generation animals was often erroneously implied to be exempt from the NDF processes. Yet export of seahorses determined to be source code F (i.e., specimens bred in a captive environment, yet not captive-bred in accordance with Res. Conf. 10.16) requires an NDF to be made prior to issuance of the export permit.

c) Releases of captive bred seahorses were mistakenly cited as a tool for the conservation or management of wild populations. Yet supplementation poses risks to wild populations (disease and genetic issues) with few likely benefits. The IUCN Guidelines for Reintroductions and Other Conservation Translocations\textsuperscript{18} recommend against the releases of captive animals except under specified conditions, including the careful monitoring of released animals. All releases need to be carried out with caution and follow best practices, if they are not to threaten the existing wild populations.

Capacity building

18. The RST process for seahorses revealed an urgent need to build the capacity of Parties to implement CITES measures for seahorses. To achieve this end, Project Seahorse, acting as IUCN SSC Seahorse, Pipefish and Stickleback Specialist Group, has led creation of a series of products that fill information gaps and help build capacity. All outputs are available for Parties on the IUCN Seahorse, Pipefish and Stickleback Specialist Group (SPS SG) website\textsuperscript{19}.

NDF guidance and training workshops

19. A step-by-step framework\textsuperscript{20} for the development of adaptive management programs and making sound NDFs for seahorses was developed by Project Seahorse in consultation with CITES Authorities, government agencies and national experts in Indonesia, Thailand and Viet Nam and the Philippines through in-country workshops for CITES Authorities and national experts\textsuperscript{21}.

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\textsuperscript{15} SC63 summary record (https://cites.org/sites/default/files/eng/com/sc/63/E-SC63-SumRec.pdf)


\textsuperscript{17} SC70 Doc. 29.2 (https://cites.org/sites/default/files/eng/com/sc/70/E-SC70-29-02.pdf) and SC70 Doc. 29.2 A2 (https://cites.org/sites/default/files/eng/com/sc/70/E-SC70-29-02-A2.pdf)

\textsuperscript{18} IUCN ‘Guidelines for Reintroductions and Other Conservation Translocations’ (http://ow.ly/mRgRG)

\textsuperscript{19} https://iucn-seahorse.org/cites-toolkit/


\textsuperscript{21} Workshop summaries and outputs available at https://iucn-seahorse.org/cites-toolkit/.
20. Protocols have been developed that allow Parties to deduce seahorse population trends (as required by the Convention). The most effective approach is to survey seahorse landings at a sample of fishing ports on a frequent basis. Such sentinel programs can be integrated into existing fishery monitoring programs.

21. A revised taxonomy of seahorses was published in 2017 based on the best available genetic, morphological and geographic information at that time. This set of 41 species, along with two species identified since its publication, is being proposed to CoP18 as the Nomenclatural Standard Reference for this genus.

22. Regional identification guides – bifurcating keys – have been produced and translated into national languages:

   a) **ID Guide for Large Seahorses in Southeast Asia**, available in English, Khmer/Cambodian, Malay and Thai.

   b) **Simplified ID guide for Southeast Asian Seahorses**, available in Bahasa Indonesian, English, Thai and Vietnamese.

   c) **ID Guide for Eastern Atlantic Seahorses**, available in English.

   d) **ID Guide for Seahorses of the Americas**, available in English and Spanish.

23. Trade survey data have been published for both pre- and post-CITES periods for a number of countries. Such surveys of seahorse biology, fisheries and trades, have long served as the backbone of global seahorse conservation work, providing reliable estimates of trade.

24. A citizen science website, iSeahorse, and its associated smartphone app have been created to allow anyone, anywhere in the world to contribute to seahorse science and conservation by sharing their wild seahorse sightings. The site has generated over 3600 observations across 33 species in greater than 50 countries; 15% of the verified sightings have been outside the previous inferred range of the species. iSeahorse also includes a recently developed network of 18 National Seahorse Experts and 19 Ambassadors for iSeahorse in over 18 different countries.

25. Until the RST process, international seahorse trade appears not to have changed after the inclusion of seahorses in Appendix II of CITES. Annual seahorse exports – as reported to CITES – comprised many...
millions of animals of a reported 31 species traded among at least 87 countries. The vast majority of reported
dried exports was from Southeast Asia and West Africa to China (including Hong Kong SAR and Taiwan, Province of China) and was sourced from non-selective fishing practices. A smaller live trade was reported from Southeast Asia to Europe and North America. Reports of population declines also continued after the inclusion of seahorses in Appendix II of CITES. 

26. The RST process led to notable changes in reported seahorse exports. A re-analysis of CITES data for this document reveals a massive drop in trade volumes reported to CITES after 2011 (Figure 1). This is true for both the dried and live trade, though more pronounced for the former. The average annual reported trade volume from 2012 to 2016 was just 11% of the annual average reported from 2004 to 2011 for dried trade and 26% for live trade. Such declines in reported trade are associated with bans on exports from most historically important source countries, whether imposed by Parties or through a CITES trade suspension from the RST process (see paragraphs 15 and 16).

Figure 1. Volume of seahorses (in number of individuals) reported in the CITES database from 2004 to 2016.

Ongoing illegal, unregulated and unreported trade in dried seahorses

27. Despite the decline in reported exports of seahorses, there is evidence of illegal exports from at least some countries that have banned such exports. Fisheries surveys, trade surveys, or both in source countries with trade bans have revealed persistent illegal, unregulated and unreported (IUU) exports of dried seahorses,


particularly from India\textsuperscript{32}, Malaysia\textsuperscript{33}, the Philippines\textsuperscript{34} and Viet Nam\textsuperscript{35}. Media reports of seahorse seizures\textsuperscript{36} provide further evidence of illegal international trade.

28. The most recent evidence for ongoing trade comes from 220 interviews conducted with traders in Hong Kong SAR, the largest entrepôt for dried seahorses, in 2016-17\textsuperscript{37}. In this study, traders reported obtaining dried seahorses from many countries with bans on seahorse exports, most notably Thailand and the Philippines – but also Indonesia, India, Malaysia and Viet Nam. Indeed, it was estimated that almost all dried seahorses in Hong Kong SAR (95\%) had been imported from source countries despite export bans being in place, indicating a widespread lack of enforcement.

29. Importing and exporting Parties and national CITES Authorities clearly must take action to implement the Convention for seahorses. The Hong Kong SAR study’s findings identify failures in export and import control as well as a need to involve TCM and dried seafood traders as agents in generating compliance with trade bans. Given that export bans were implemented in response to concerns about the state of seahorse populations, ongoing illegal trade poses threats to the long-term future of the species.

Changes in sources of live seahorses

30. Changes in reported international trade in live seahorse exports are primarily explained by a decline in reported wild exports from Indonesia and Viet Nam after 2009, when the RST process first involved these countries. These Parties together accounted for 88\% of reported live wild exports from 2004-2009 but only 19\% from 2010-2016\textsuperscript{31}. It is possible these declines are real (cf dried trade), as live specimens are more challenging to move through borders undetected. That said, it would be of value to carry out a market survey in live seahorse consumer countries – similar to that carried out in Hong Kong SAR for the dried trade\textsuperscript{37}.

31. CITES trade data suggest also that the trade in live seahorses may be moving toward a greater reliance on captive-bred seahorses. Most seahorses traded live were wild-caught before the inclusion of seahorses in Appendix II of CITES\textsuperscript{3}, but CITES data indicated a considerable increase in captive-bred seahorses to supply the live trade (Figure 2).

\textsuperscript{32} T. Vaidyanathan, Project Seahorse, pers. comm.

\textsuperscript{33} Lawson, J. 2014. \textit{Rare seahorses have big implications for small fishes in bycatch}. The University of British Columbia. doi:10.14288/1.0166949.


\textsuperscript{36} https://iucn-seahorse.org/cites-toolkit/

Present situation

32. Although historically important source Parties for seahorses are no longer exporting these fishes legally, because of either self- or CITES-imposed trade suspensions, illegal exports continue. To implement the Convention effectively, CITES Parties need to address three challenges:

i) Zero quotas, export suspensions, or both may not make a notable difference to seahorse conservation in most areas. The great majority of these fishes will continue to be caught in non-selective fishing gear and removed from the wild, whether traded or not. Parties need to implement existing national laws and rules that could reduce extractive pressure on seahorses. Such action will help Parties make positive NDFs.

ii) With good oversight and adaptive management, many Parties could lift their zero quotas, export suspensions, or both and implement the inclusion of seahorses in Appendix II of CITES for an enduring sustainable, legal and regulated trade. For seahorses, the road map is there, the tools are in place and the available protocols should allow good progress. Such a transition would involve making preliminary conditional NDFs and then strengthening them as information improves, with good monitoring/feedback systems in place. Parties would also benefit from the production of legal acquisition guidance for seahorses.

iii) Where zero quotas, export suspensions, or both remain, strengthened enforcement is needed by both exporting and importing Parties. Many seahorses obtained as bycatch can be moved easily across borders when dried. Although the level of illegal trade in live seahorses is currently unknown, improved monitoring and enforcement can help ensure that zero quotas and export suspensions are effectively implemented.

Where to next – A road map for success through CITES Decisions

Recommendations

33. To improve the current conservation situation for seahorses, that the Conference of the Parties note this document and adopt the following draft decisions at CoP18:
**Directed to the Secretariat**

18.AA The Secretariat shall update the CITES website to include available materials to support CITES implementation for seahorses (NDF guidance, identification materials, etc.) – as listed in document CoP18 Doc. 72 within 180 days after CoP18.

18.BB The Secretariat shall:

a) issue a Notification to the Parties within 180 days of the end of the CoP inviting them to inform the Secretariat of i) any national quotas for seahorses, including any zero quotas; ii) any trade suspensions for seahorses; and iii) how they are implementing and enforcing such quotas and trade suspensions for seahorses;

b) communicate the existence of national quotas, including any zero quotas, and trade suspensions for seahorses to CITES Authorities through a Notification to the Parties and through its website; and

c) report how Parties are implementing and enforcing any quotas and trade suspensions for seahorses to the 73th meeting of the Standing Committee.

18.CC The Secretariat, subject to the availability of external funding, shall:

a) facilitate the organization of an expert workshop for Parties to explore *CITES Implementation and Enforcement after Review of Significant Trade for Seahorses* and propose practical steps to be taken to ensure full implementation and enforcement of the inclusion of seahorses in Appendix II of CITES, in collaboration with relevant international and regional organizations; and

b) report the workshop findings and recommendations to the 31st meeting of the Animals Committee and 73rd meeting of the Standing Committee, as appropriate.

18.DD The Secretariat, subject to the availability of external funding and in consultation with relevant Parties, is requested to:

a) contract independent consultant(s) to undertake a study of the domestic controls in consumer markets for seahorse species for which international trade is predominantly illegal;

b) contract independent consultant(s) to undertake a study of live seahorse trade in key consumer countries to understand shifts in trade patterns since the inclusion of seahorses in Appendix II of CITES and since Review of Significant Trade; and

c) report the findings and recommendations of these studies to the 31st meeting of the Animals Committee and 73rd meeting of the Standing Committee, as appropriate.

18.EE The Secretariat is invited to seek external funding from interested Parties and intergovernmental and nongovernmental organizations to support the work described in Decisions 18.CC and 18.DD.

**Directed to the Parties**

18.FF To effectively implement the inclusion of seahorses in Appendix II of CITES, Parties are invited to:

a) inform the Secretariat of i) any national quotas for seahorses, including any zero quotas; ii) any trade suspensions for seahorses; and iii) how they are implementing and enforcing such quotas and trade suspensions for seahorses;

b) share copies of their NDFs with the CITES Secretariat for posting on the CITES website to assist other CITES Parties;

c) inform seahorse traders within their jurisdiction of any quotas, including any zero quotas, and any trade suspensions for seahorses to further facilitate compliance and enforcement by all participants in the trade.
18.GG Parties are encouraged to:

a) use existing tools for effective CITES implementation and enforcement that are relevant to seahorses;

b) where quotas, trade suspensions, or both are in place, develop monitoring programs for seahorses in their national waters to understand effectiveness of these actions and any other relevant implementation and enforcement actions for seahorse conservation and management; and

c) share the design and initial results of these programs with the CITES Secretariat to report out at the 19th meeting of the Conference of the Parties.

Directed to the Animals Committee

18.HH The Animals Committee shall consider the findings and recommendations of the workshop referred to in Decision 18.CC, the findings and recommendations from actions taken pursuant to Decision 18.DD, and other relevant information available to the Animals Committee, and develop recommendations as appropriate to ensure sustainable harvest and legal trade in seahorses.

Directed to the Standing Committee

18.II The Standing Committee shall consider the report of the Secretariat referred to in Decision 18.BB, the findings and recommendations of the workshop referred to in Decision 18.CC, the findings and recommendations from actions taken pursuant to Decision 18.DD, information provided by the Parties pursuant to Decisions 18_FF and 18.GG, and recommendations developed pursuant to Decision 18.HH, and develop recommendations as appropriate to address the illegal trade of seahorses and strengthen CITES implementation and enforcement.

Directed to Secretariat

18.JJ The Secretariat is invited to consult the International Union for Conservation of Nature (IUCN) SSC Seahorse, Pipefish and Stickleback Specialist Group and other relevant experts, subject to the availability of external funding, to continue helping Parties to fully implement and enforce the Convention and ensure that the international trade in seahorses is not detrimental to the survival of wild populations.

COMMENTS OF THE SECRETARIAT

A. Document CoP18 Doc. 72 gives an overview of the history of CITES implementation for trade in *Hippocampus* spp., identifies current implementation challenges, and proposes actions to improve the implementation of the Convention for trade in *Hippocampus* spp. in the form of draft decisions. The Secretariat suggests that the experiences and observations outlined in the document regarding trade in *Hippocampus* spp. may be helpful in addressing more generally the implementation challenges for marine species listed in the CITES Appendices. The Secretariat also suggests that the draft decisions in paragraph 33 could be simplified and notes that some of the proposed activities seem to focus on domestic rather than international trade. The Secretariat therefore recommends that the draft decisions be adopted with the amendments outlined below and shown in Annex 1.

B. The authors of the document provide an overview of initial as well as continuing challenges faced by exporting Parties in the implementation of CITES provisions for trade in *Hippocampus* spp. (paragraphs 9, 13). These may have partially arisen from the fact that *Hippocampus* spp. were among the first marine fish included on the CITES Appendices (paragraph 2) and to have undergone the Review of Significant Trade process (paragraph 12). The Secretariat notes that strengthening the collaboration with fisheries authorities (paragraph 8, Decision 12.53) remains a priority area of work for other marine species as well (see documents CoP18 Docs 68.1 and 68.2).

C. Given the reported ongoing challenges of Parties in making non-detriment findings (NDFs) for trade in *Hippocampus* spp. (paragraphs 14, 17), the Secretariat notes that a step-by-step NDF framework is available
(paragraph 19) but considers that for exporting countries where little data is available, a less formalized approach, based on adaptive management principles may be more appropriate.

D. The Secretariat concurs that there continues to be a need for capacity-building to improve the implementation of CITES-listings of *Hippocampus* spp. (paragraph 18). The Secretariat recommends that such activities could best focus on improving the capacity of fisheries stakeholders for CITES implementation and sustainable fisheries management, which will often benefit multiple CITES-listed species.

E. The Secretariat notes that the documented possible shift of trade from wild-caught seahorses towards captive-bred seahorses (paragraph 31) reflects a common pattern observed for species listed in the CITES Appendices. The Secretariat further notes that the process under Resolution Conf. 17.7 on *Review of trade in animal specimens reported as produced in captivity* may help identify and address possible implementation challenges of the respective provisions of the Convention for seahorses [e.g. paragraph 17 b)].

F. The Secretariat recalls that a suite of training courses, tools and services are available through the International Consortium on Combating Wildlife Crime (ICCWC) to support national wildlife law enforcement agencies in their efforts to address illegal trade concerns (paragraphs 27, 28 and 32). These can be delivered upon request and subject to funding availability. Parties concerned are invited to consult the ICCWC Menu of Services for further information and to request support as may be needed. The ICCWC Menu of Services is available at: https://cites.org/sites/default/files/eng/prog/iccwc/ICCWC_menu_of_services-revApril18.pdf

G. The Secretariat considers that the workshop called for in draft decision 18.CC could identify good practices in the implementation of CITES listings for *Hippocampus* spp., in particular in the context of the Review of Significant Trade (RST). The outcomes of the workshop may be helpful to assist Parties in resuming sustainable, legal and regulated trade in species of *Hippocampus* spp., and to pre-empt similar challenges for other marine species listed on Appendix II that may be selected for RST in the future.

H. The Secretariat notes, however, that some elements of the activities proposed in the document, e.g. control in consumer markets (draft decision 18.DD), concern domestic rather than international trade.

I. The Secretariat proposes in Annex 1 amendments to the draft decisions to address the above-mentioned concerns.
DRAFT DECISIONS ON SEAHORSES

Directed to the Secretariat

18. AA The Secretariat shall include available materials to support CITES implementation for seahorses (NDF guidance, identification materials, etc.) on the CITES website.

19. BB The Secretariat shall:

a) issue a Notification to the Parties inviting them to inform the Secretariat of any national management measures that regulate or restrict international trade in seahorses, and on how they are implementing and enforcing such measures for seahorses;

b) compile the responses received to the Notification issued as per paragraph a) of the present Decision and communicate them to CITES Authorities through a Notification to the Parties and through its website; and

c) subject to external funding:

i) commission a study on trade in Hippocampus spp., including applicable regulations, to understand shifts in international trade patterns since the inclusion of seahorses in Appendix II and the Review of Significant Trade of Hippocampus spp., as well as the implementation challenges and possible solutions; and

ii) organize an expert workshop to discuss the implementation and enforcement of CITES for trade in Hippocampus spp., including the recommendations and outcomes of the Review of Significant Trade process, and propose practical steps to address implementation and enforcement challenges; and

d) report on the implementation of paragraphs a) through c) of the present Decision to the Animals and Standing Committee, as appropriate.

Directed to Parties

18. CC To support the effective implementation of Appendix II of CITES for seahorses, Parties are invited to:

a) inform the Secretariat of any national management measures that regulate or restrict international trade in seahorses and how they are implementing and enforcing measures for seahorses;

b) share copies of their NDFs with the CITES Secretariat for posting on the CITES website to assist other CITES Parties; and

c) inform seahorse traders within their jurisdiction of any quotas, including any zero quotas, and any trade suspensions for seahorses to further facilitate compliance and enforcement by all participants in the trade.

18. DD Parties are encouraged to:

a) use existing tools for effective CITES implementation and enforcement that are relevant to seahorses;

b) where quotas, trade suspensions, or both are in place, develop monitoring programs for seahorses in their national waters to understand effectiveness of these actions and any other relevant implementation and enforcement actions for seahorse conservation and management; and
c) share the design and initial results of these programs with the CITES Secretariat to report to the 19th meeting of the Conference of the Parties.

**Directed to the Animals Committee**

18. EE The Animals Committee shall analyse and review the results of any activities under Decision 18.BB and other relevant information available to the Animals Committee, and develop recommendations as appropriate to ensure sustainable and legal trade in seahorses.

**Directed to the Standing Committee**

18. FF The Standing Committee shall analyse and review the results of any activities under Decision 18.BB and develop recommendations as appropriate to strengthen CITES implementation and enforcement for trade in seahorses.
TENTATIVE BUDGET AND SOURCE OF FUNDING  
FOR THE IMPLEMENTATION OF DRAFT RESOLUTIONS OR DECISIONS

According to Resolution Conf. 4.6 (Rev. CoP16) on *Submission of draft resolutions, draft decisions and other documents for meetings of the Conference of the Parties*, the Conference of the Parties decided that any draft resolutions or decisions submitted for consideration at a meeting of the Conference of the Parties that have budgetary and workload implications for the Secretariat or permanent committees must contain or be accompanied by a budget for the work involved and an indication of the source of funding.

The Secretariat estimates that if the draft decisions above were to be adopted, their implementation would require external resources of ca USD 100,000 to 170,000 (Technical study USD 50,000 to 100,000, Expert meetings: USD 50,000 to 70,000), and will have workload implications for the Animals Committee, Standing Committee and the Secretariat.