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PROPOSAL FOR THE INCLUSION OF SPECIES ON THE APENDICES OF THE CONVENTION ON THE CONSERVATION OF MIGRATORY SPECIES OF WILD ANIMALS

A. **PROPOSAL:** Inclusion of *Stenella attenuata* (Southeast Asia populations) on **Appendix II**

B. **PROPONENT:** Government of the Republic of the Philippines

C. SUPPORTING STATEMENT

1. Taxon

1.1	Classis	Mammalia
1.2	Ordo	Cetacea
1.3	Familia	Delphinidae
1.4	Genus/species	<i>Stenella attenuata</i> (Gray 1846)
1.5	Common names	English: Pantropical dolphin Spanish: Estenela moteada French: Dauphin tacheté pantropical

2. Biological data

2.1 Distribution

Polytypic. The pantropical spotted dolphin is distributed throughout the oceanic tropical zones in both hemispheres with approximate latitudinal limits of 30° – 40°N and 20°-30°S and exhibits marked geographic variation. One subspecies has been described from the eastern tropical Pacific, *S. a. graffmani*, and two additional geographical stocks have been designated there for management purposes: the northeastern offshore stock and the western/southern offshore stock. Stock identity in Southeast Asia has not been examined. The species has been recorded from the Philippines, Thailand, Australia, China, Indonesia and Vietnam and likely occurs in the marine waters of the other nations in the region.

2.2 Population

The number and sizes of populations in Southeast Asian waters are unknown. Approximately 10% of Philippine waters have been surveyed to inventory cetaceans, but abundance estimates from that work are not yet available. In these surveys, the spotted dolphin has been the second most commonly encountered species in oceanic habitats.

2.3 Habitat

The pantropical spotted dolphin in Philippine waters lives in deep water oceanic habitats often close to shore because of the very deep water surrounding some of the Philippine islands and feeds on small, mostly epipelagic and mesopelagic fishes and squids.

2.4 Migrations

The extent of migrations is unknown. The ranges of regional populations almost

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certainly extend across international boundaries, e.g., between the Philippines and Malaysia, the Philippines and Indonesia, Indonesia and Malaysia, Australia and Indonesia, Malaysia and Brunei, Macau and China, Vietnam and China, Vietnam and Cambodia, Vietnam and Thailand, Thailand and Myanmar, etc. In the Philippines, abundance in some areas may show seasonal change, suggesting that migrations occur.

3. Threat data

3.1 Direct threats to the populations

Hunting of dolphins is illegal in nearly all countries in Southeast Asia, but dolphin harpoon fisheries exist in at least the Philippines and Indonesia. The spotted dolphin is the third most frequently caught species in the Philippines in those fisheries so far examined. A complete survey to determine the number and size of these harpoon fisheries in the Philippines has not been carried out. As dolphin fisheries are illegal, it is difficult to obtain accurate data on the catches.

Incidental catches in other fisheries probably pose a greater threat to spotted dolphins in the region than harpoon fisheries do. Spotted dolphins are killed incidentally in large numbers in a variety of fisheries in the Philippines; the gear involved includes drift nets, set gill nets, purse seines and other round-haul nets used to catch tuna, mackerel, bonito, scad, flying fish and a wide variety of other finfish.

The impacts of the direct and incidental catches on the populations are unknown because the ranges and sizes of local/regional stocks have not been determined. Data on the age composition of the incidental kill in a tuna drift net is not available.

3.2 Habitat destruction

Environmental contamination is not known to be a threat to the habitat of pelagic dolphins in the region at this point, but burgeoning populations and rapid economic development are the reasons for concern about levels of marine pollution and their possible effects on all marine organisms.

3.3 Indirect threats

Very large and rapidly increasing human populations in the region have led to greatly increased pressure on stocks of marine fish and invertebrates, which has resulted in declining catch per unit effort, collapse of some stocks and shifts to increasingly smaller fishes and squids. This overexploitation of marine resources poses a potential threat to the dolphin populations, which increasingly are depending on some of the same fishery stocks used by humans. An example, is the relatively new and rapidly expanding fisheries for several species of flying fishes, which are a staple food of the spotted dolphin.

3.4 Threats connected especially with migrations

The number and ranges of populations have not yet been determined, but there are indications that abundance may undergo seasonal fluctuations in at least some regions, in

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tandem with that of other large pelagics such as the yellowfin tuna. Thus populations may be impacted by incidental kill in fisheries in more than one place, and these fisheries may be in the waters of different countries, e.g., the same spotted dolphins involved in a tuna drift net fishery in the Philippines may be involved in another fishery in Indonesia, or Malaysia.

3.5 National and international utilization

In some nations in the region, in addition to the use for shark bait or human consumption of spotted dolphin taken in illegal harpoon fisheries, dolphins killed incidentally in other fisheries are also utilized. Such use of incidentally killed dolphins is illegal in some nations, but enforcement is difficult and the meat moves extensively in local commerce. The potential market for dolphin meat created by this illegal traffic poses a conservation threat beyond the impact of current takes, in that the present illegal harpoon fisheries could expand through the use of purse seines or other net gear and greatly increase their catches. This has happened in Peru, and combined incidental and illegal directed dolphin catches there are now thought to be unsustainable.

International trade has not been documented but illicit dolphin catches seized in recent years from distant-water fishing vessels, e.g., very recently in Taiwan, could have come from Southeast Asian waters fished illegally or under international EEZ fishing-rights agreements.

4. Protection status and needs

4.1 National protection status

In the Southeast Asian region, dolphins are fully protected in the Philippines, Australia, China, Thailand, Malaysia, and Indonesia. However, there are many problems of enforcement and interpretation in most of these countries and actual protection is minimal or non-existent in many places. Prospects are that legal protection will be enacted soon in Vietnam and Cambodia. In Singapore, dolphins come under the Fisheries Act and are not provided special protection. Information on the status of protection in Macau, Brunei-Darussalam and Myanmar are not available at this writing.

4.2 International protection status

Stenella attenuata is on Appendix II of CITES

4.3 Additional protection needs

All range states should ratify the Bonn Convention, and a regional agreement should be developed to facilitate the identification, assessment and conservation of the stocks.

5. Range states (in Southeast Asia)

Philippines (CMS Party), Malaysia, Indonesia, Singapore, Thailand, Myanmar, Cambodia, Vietnam, China, Macau, Brunei Darussalam and Australia (CMS Party)

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6. Comments from Range States
7. Additional remarks
8. References

Dolar, M.L.L. 1994. Incidental takes of small cetaceans in fisheries in Palawan, Central Visayas and northern Mindanao in the Philippines. Rep. int. Whal. Commn. (Spec. Iss. 15):355-363.

Dolar, M.L.L. and W.F. Perrin. 1996. Preliminary results on the distribution and abundance of cetaceans in the Philippines. IBI Repts (International Marine Biological Research Institute, Kamowaga, Japan) 6:9-23.

Dolar, M.L.L., S.J. Leatherwood, C.J. Wood, M.N.R. Alava, C.L. Hill and L.V. Aragon. 1994. Directed fisheries for cetaceans in the Philippines. Rep. int. Whal. Comm. 44:439-449.

Jefferson, T.A., S. Leatherwood and M.A. Webber. 1993. FAO species identification guide. Marine mammals of the world. FAO, Rome. 320pp.

Klinowska, M. 1991. Dolphins, porpoises and whales of the world. The IUCN Red Data Book. IUCN, Gland, Switzerland and Cambridge, U.K. viii + 429pp.

Perrin, W.F. and A.A. Hohn. 1994. Pantropical spotted dolphin *Stenella attenuata*. Pages 71-98 in S.H. Ridgway and R. Harrison (eds). Handbook of marine mammals. Vol. 5: The First Book of Dolphins. Academic Press, London.

Perrin, W.F., M.L.L. Dolar and M.N.R. Alava (eds). 1996. Report of the Workshop on the Biology and Conservation of Small Cetaceans and Dugongs of Southeast Asia. UNEP (W)/EAS WG.1/2. 101pp.

Perrin, W.F., G.P. Donovan and J. Barlow (eds). 1994. Gillnets and cetaceans. Rep. int. Whal. Commn (Spec. Iss. 15). 629pp.