

# DSCC position statement

## Urgent action needed **TO PROTECT** seamounts, cold-water corals, and other vulnerable deep-sea ecosystems

**The members of the Deep Sea Conservation Coalition jointly call on the United Nations General Assembly (UNGA) to adopt a resolution declaring an immediate moratorium on high seas bottom trawling, and to simultaneously initiate a process under the auspices of the UNGA to:**

- 1) assess deep-sea biodiversity and ecosystems, including populations of fish species, and their vulnerability to deep-sea fishing on the high seas; and**
- 2) adopt and implement legally-binding regimes to protect deep-sea biodiversity from high seas bottom trawling and to conserve and manage bottom fisheries of the high seas consistent with the UN Convention on the Law of the Sea (UNCLOS 1982), UN Fish Stocks Agreement (FSA 1995), UN FAO Compliance Agreement (1993), Convention on Biological Diversity (CBD 1992), and the UN FAO Code of Conduct for Responsible Fisheries (Code 1995).**

In 2002, the UN Informal Consultative Process on Oceans and the Law of the Sea (UNICPOLOS) recommended that the UNGA call for urgent consideration to improve the management of risks to vulnerable deep-sea areas and biodiversity. This was subsequently endorsed by the UNGA in 2002, and reiterated by both UNICPOLOS and the UNGA in 2003.

In February 2004, the 7th Conference of the Parties to the Convention on Biological Diversity (CBD) responded to the call made by the UNGA, stressing the need for rapid action to address threats to the marine biodiversity of deep-sea areas including seamounts, hydrothermal vents, cold water corals and other vulnerable marine ecosystems and features beyond national jurisdiction. In view of the central role played by the UNGA in coordinating international action to address the threat to biodiversity on the high seas, COP-7 of the CBD called upon the UNGA, as well as other relevant international and regional organizations, to:

“urgently take the necessary short-term, medium-term and long-term measures to eliminate/avoid destructive practices, consistent with international law, on a scientific basis, including the application of precaution” through, for example, on a case by case basis, the “interim prohibition of destructive practices adversely impacting the marine biological diversity associated with [these] areas....”<sup>1</sup>

#### Also

in February 2004, over 1000 marine scientists from around the world released a consensus statement calling for swift action to protect imperiled deep-sea coral and sponge ecosystems at the annual meeting of the American Association for the Advancement of Science.<sup>2</sup> They identified bottom trawling as an especially grave threat to these communities and urged the UN and other international bodies to establish a moratorium on bottom trawling on the high seas. This statement was preceded by a similar statement from over one hundred scientists attending the Tenth Deep-Sea Biology Symposium in Coos Bay, Oregon USA in August 2003, and the Second International Symposium on Deep Sea Corals in Erlangen, Germany in September 2003. They too urged the UNGA to adopt an immediate moratorium on bottom trawl fishing on the high seas.

**Accordingly, it is vital that in November of this year, the UNGA takes action to urgently address the threat of high seas bottom trawling through the implementation of an immediate moratorium and identify longer-term options for comprehensively addressing the conservation and protection of deep-sea biological diversity and its equitable and sustainable use.**

#### Scientists and the public

are increasingly concerned about the threats to vulnerable deep-sea biodiversity hotspots, including seamounts and cold-water corals, posed by bottom trawl fishing conducted on the high seas. These deep-sea features typically support slow-growing, long-lived species, which are particularly sensitive to disturbance. Fish inhabiting these deep-sea ecosystems can live for up to 150 years, and coral structures may reach several thousands of years in age. Urgent action is needed to protect seamounts, deep-water corals and other vulnerable deep-water habitats that occur beyond the 200-mile limit from bottom trawl fishing and to prevent the serial depletion of populations of numerous commercially important species of deep-sea fish associated with them.

Seamounts are submarine mountains and hills that rise 1000 meters or more above the ocean floor. They are distributed throughout the world's oceans. Less than one percent of seamounts have been biologically sampled, but recent research indicates that seamounts have large numbers of endemic species (species that are not found anywhere else). Along with cold-water corals and other deep-sea ecosystems, seamounts represent a major reservoir of biodiversity in the oceans. Yet much remains unknown about the distribution, abundance and dynamics of deep coral and seamount ecosystems.

## The international community

has repeatedly called for the prevention, deterrence and elimination of unregulated fishing. Bottom trawl fishing is completely unregulated in extensive areas of the high seas. This represents an important gap in the governance of the world's oceans. Only a handful of regional fisheries management organizations (RFMOs), including NAFO, CCAMLR, NEAFC and SEAFO, have the authority to regulate deep-sea bottom fishing, and few, if any, have restricted bottom trawling to protect sensitive ecosystems. In relation to other high seas fisheries, bottom trawling on the high seas is still relatively limited in terms of the number of vessels, the countries involved, and the amount and value of the catch.<sup>3</sup>

Faced with declining fish stocks in nearshore coastal waters, fishermen are venturing farther out into previously unfished ecosystems of the deep sea. Advancing technology now allows them to easily locate and catch fish in these formerly inaccessible areas, and some of the gear used, such as bottom trawls, can rapidly reduce ancient, thriving bottom coral complexes to rubble and deplete the fish populations that inhabit them. There is great concern that many species are being lost to bottom trawling before they can even be identified. This type of fishing also destroys the habitat of commercially important species, and the serial depletion of many commercial fish populations associated with these features, such as orange roughy, demonstrates the unsustainability of these fisheries. It greatly reduces the opportunities for all states to benefit from deep-sea species and biodiversity.

The need to address this issue has been repeatedly recognized by the UNGA and UNICPOLOS. The impact and lack of regulation of certain fishing methods on fragile deep-sea habitats and ecosystems is clearly a cause for concern. Protecting these ecosystems and providing for their sustainable use requires specific and urgent action, and the UNGA must act now to effectively address this issue.

## Immediate measures

provide a means of temporarily preserving deep-sea biodiversity and fish stocks until more permanent solutions can be developed, agreed, and applied. They can catalyze action in a number of areas where improvements and further work is needed and serve as an incentive for all stakeholders to come to agreement without undue delay. A time-limited international initiative coordinated under the auspices of the UNGA can ensure prompt scientific assessment and the negotiation and agreement of effective, equitable and sustainable regimes for high seas bottom fishing.

## A scientific assessment

of deep-sea biodiversity and ecosystems must provide detailed information on the marine biodiversity associated with seamounts, deep-sea corals and other deep-sea ecosystems, and how deep-sea ecosystems relate to open ocean ecosystems. It should also provide for further identification and mapping of deep-sea biodiversity hotspots and ecotypes/bioregions. It should assess the viability of sustainable exploitation of deep-sea fish stocks and species on the high seas with particular reference to the impacts of such activity on associated and dependent species and related ecosystems.

In exploring legally binding regimes to protect deep-sea biodiversity and conserve and manage high seas bottom fisheries, the options include, inter alia:

- extending the 1995 UN FSA to cover all high seas fisheries, together with additional regional agreements/arrangements for unregulated deep-sea fish stocks, and ensuring that RFMOs with competence over high seas bottom fisheries fully reflect the provisions of the international instruments noted above; or a new convention on unregulated deep-sea fisheries on the high seas; and
- identification of measures available to the coastal state to prevent or mitigate damage resulting from high seas bottom trawl fishing to sedentary species subject to coastal state resource rights on the continental margin beyond 200 nautical miles;
- establishment of areas where bottom fishing activities are either strictly managed or excluded – to protect biodiversity, ensure sustainable fisheries, and/or maintain ecosystem integrity;
- adoption of further binding international measures to eliminate the problems of Illegal, Unreported and Unregulated (IUU) high seas bottom fishing, including the strengthening of flag-state and port-state jurisdiction and comprehensively addressing the issue of vessels flying flags of convenience; and
- adoption of measures that effectively provide for the equitable and sustainable use of deep-sea biodiversity as a matter of interest to all nations.

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### FOOTNOTES

<sup>1</sup> Decision VII/5 of the Seventh Conference of Parties to the Convention on Biological Diversity on Marine and coastal biological diversity, para. 61. See also paras. 57-62. February 2004. <http://www.biodiv.org/decisions/default.aspx>.

<sup>2</sup> <http://www.mcbi.org>, under 'New at MCBi'.

<sup>3</sup> Gianni, Matthew. High Seas Bottom Fisheries and Their Impact on the Biodiversity of Vulnerable Deep-sea Ecosystems: Summary Findings, February 2004.

Policy papers also available:


**DSCC**  
policy paper

The **destructive power** of deep-sea bottom trawling on the high seas

● Deep-sea bottom trawling

During the past several decades, it has become possible to plow up deep-sea ecosystems that have existed for millennia, if not longer. Today, as a result, environmental fleets from a handful of countries continue to devastate some of the planet's last, most ecologically rich frontiers in search of commercial fish and crustacean species.

Until relatively recently, fishing the deep sea's rugged floors and canyons was impossible. Advances in bottom trawl technology, however, have put the unreachable within reach. More powerful engines, bigger nets, more precise mapping, more advanced navigational and fish-detection electronics have enabled fishing vessels to drag fishing gear across the ocean bottom as far as two kilometers (1.2 million) deep. Bottom trawling is, in fact, now the preferred method for trawling the ocean bottom on the high seas, according to approximately 80 percent of the total high seas bottom fisheries catch in 2001.



● Economics

**DSCC**  
policy paper

**Economics and equity... the deep seas parted**

The global race to fish the deep seas is, in many ways, a race of figures and four men.

As coastal fisheries have grown more and more depleted, heads and more developed nations are increasingly turning to deep trawling as a means of catching commercial fish and crustacean species. More powerful engines and fish-detection electronics have enabled fishing vessels to drag fishing gear across the ocean bottom as far as two kilometers (1.2 million) deep. Bottom trawling is, in fact, now the preferred method for trawling the ocean bottom on the high seas, according to approximately 80 percent of the total high seas bottom fisheries catch in 2001.



● Moratorium

**DSCC**  
policy paper

**Urgent action needed: a global moratorium on deep-sea bottom trawling on the high seas**

At present, deep-sea bottom trawling on the high seas (the 64 percent of the ocean beyond national jurisdiction) is virtually unregulated. The vast majority of the high seas are not covered by any national management jurisdiction (RMFOs), with the legal authority to regulate deep-sea high seas fish stocks. In order for deep-sea bottom trawling to be sustainable, the International Maritime Organization (IMO), the United Nations Convention on the Law of the Sea (UNCLOS), the International Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR), and the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) - only one of which has taken steps to regulate bottom trawling impacts on deep-sea biodiversity. Most other RMFOs focus on regulating or highly migratory fish stocks such as tuna and swordfish. Deep-sea bottom trawling is a highly migratory species (PFA) that migrates between the high seas and the EEZs of coastal states. The IMO has the authority to regulate deep-sea bottom trawling on the high seas, and to establish a moratorium on the protection of biodiversity.



● RMFOs

**DSCC**  
policy paper

**A net with holes: the regional fisheries management system**

The deep sea is one of the last frontiers on the planet - the home to breathtaking biodiversity of mountains, hills, ridges and trenches that are five to six miles deep and dark waters of the deep sea, which cover some 600 million sq km of the world's oceans. While the deep sea is a vast and largely unexplored frontier, it is also the most productive of the world's oceans, providing an estimated 10 million tonnes of fish and other marine products each year.

The United Nations General Assembly (UNGA) is for the first time proposing to provide urgent protection for the deep sea. The UNGA is also discussing a proposal to create a deep-sea high seas area and to improve governance of fisheries on the high seas. In the context of the UNGA, the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) is calling on the UNGA to take a moratorium on deep-sea bottom trawling on the high seas until such arrangements are made.




● Science

**DSCC**  
policy paper

**United scientific community calls for: Moratorium on deep-sea bottom trawling on the high seas**

In February 2004, 1,136 scientists from 69 countries released a statement regarding bottom trawling, an extensive and unregulated activity in the deep-sea area. The statement calls for a moratorium on deep-sea bottom trawling on the high seas, and for the establishment of a moratorium on the high seas bottom trawling. (For a full text of the statement, see www.dscclink.org)



● Seamounts

**DSCC**  
policy paper

**Mysteries and mountains of the deep: Seamounts and cold-water corals**

The deep sea is one of the last frontiers on the planet - the home to breathtaking biodiversity of mountains, hills, ridges and trenches that are five to six miles deep and dark waters of the deep sea, which cover some 600 million sq km of the world's oceans. While the deep sea is a vast and largely unexplored frontier, it is also the most productive of the world's oceans, providing an estimated 10 million tonnes of fish and other marine products each year.

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The Deep Sea Conservation Coalition, an alliance of over 30 international organisations, representing millions of people in countries around the world, is calling for a moratorium on high seas bottom trawling. For further information about the Coalition visit [www.savethehighseas.org](http://www.savethehighseas.org)