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Sustainability of cephalopod fisheries across the World: fluctuations, stock assessment and management

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Cephalopod stocks generally fluctuate widely and are strongly influenced by environmental conditions. However, they are often resilient and support large industrial fisheries together with numerous small-scale and artisanal fisheries across the World. There are numerous examples of successful sustainable exploitation based on effective management such as *Doryteuthis gahi*, Falkland Islands, *D. opalescens*, California, *Doryteuthis pealeii*, Northwest Atlantic, *Loligo reynaudii*, South Africa, *Dosidicus gigas*, Baja California, *Todarodes pacificus*, Japan. There are also only partially assessed but managed probably sustainably fisheries (*Illex argentinus*, the Southwest Atlantic), open-access fisheries without specific output control for cephalopod stocks, weak monitoring and poor enforcement of management restrictions (*Uroteuthis duvaucelii*, *U. chinensis*, India and Thailand), unmanaged and quickly declining fisheries (*Octopus* spp., Philippines, Vietnam), insufficiently managed by sustainable small-scale fisheries (*Sepia officinalis*, English Channel) . A global overview of cephalopod fisheries in respect to applied methods of stock assessment and implemented regulatory measures, as well as respective fluctuations in commercial catches and general sustainability of those fisheries is documented.

Keywords: cephalopod, fishery, stock assessment, management

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