



# TOWARDS A HARMONIZED INTERNATIONAL TRADE CLASSIFICATION FOR THE DEVELOPMENT OF SUSTAINABLE OCEAN-BASED ECONOMIES





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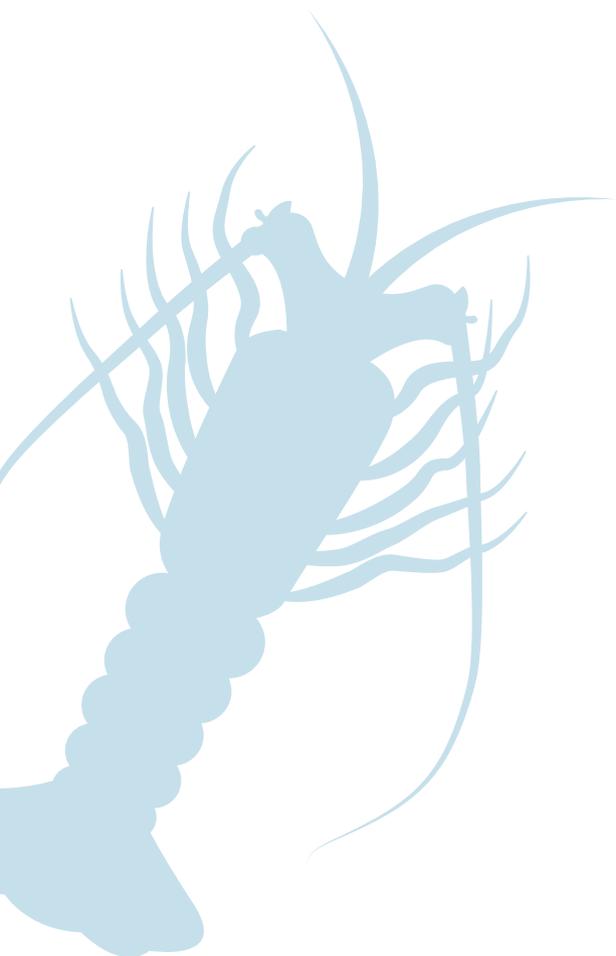
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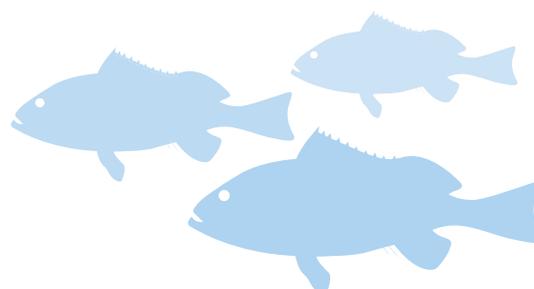
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# Acronyms and abbreviations

<b>BPM</b>	Balance of Payments Manual
<b>CPC</b>	United Nations Central Product Classification
<b>FAO</b>	Food and Agriculture Organization of the United Nations
<b>HS</b>	Harmonized Commodity Description and Coding System
<b>ISIC</b>	International Standard Industrial Classification
<b>NEC</b>	not elsewhere classified (often used in lowercase: n.e.c or nec)
<b>OECD</b>	Organization for Economic Cooperation and Development
<b>UNCTAD</b>	United Nations Conference on Trade and Development
<b>UNEP</b>	United Nations Environment Programme
<b>WTO</b>	World Trade Organization



# Executive summary

The vital importance of the oceans for human life and the development of livelihoods is recognized in Sustainable Development Goal 14 (life below water) and its trade-related targets, as well as in subsequent national and international declarations. In the call for action made by Heads of States, Governments and high-level representatives at the Conference to Support the Implementation of Sustainable Development Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development, also known as the Ocean Conference, held at United Nations Headquarters in New York from 5 to 9 June 2017, all parties were exhorted to “support the promotion and strengthening of sustainable ocean-based economies” (United Nations, 2017, paragraph 13 (q)). Further, United Nations Member States revised the draft declaration of the Conference and urged that greater efforts be made in the areas of data collection, cooperation and inclusion.

Meeting these ambitious targets and objectives will require coherent policies at the sectoral, national and international levels with regard to production, trade and the environment. So far, most initiatives for attaining Goal 14 have focused on the sustainability of ocean ecosystems and ocean management. Limited work has been done on the identification of ocean-based sectors and assessment of their economic relevance: only a handful of countries have developed a classification that identifies the key sectors and subsectors that fall within the purview of an ocean economy. Only a few regional and international initiatives have attempted to map and measure the ocean economy, and modest international funds have been devoted to the development of ocean economy and trade strategies. The assessment and mapping of ocean-based sectors requires technical expertise and resources, a task that is hindered by the lack of an international classification of goods and/or services that can be directly applied to mapping ocean economy sectors.

This publication aims to lay a foundation for filling information and data gaps in trade in ocean-based sectors to facilitate its sustainable development within and across borders. The publication proposes a sustainable ocean economy classification for tradable goods and services that can be used by all countries at any time. It has been conceptualized considering its application for the design of coherent policies, the assessment of the pillars of sustainable ocean development and the comprehensive analysis of the value chains as part of the ocean-based sectors (goods and services). The main principles on which the classification is based are similar to those of any other international classifications of goods and services – applicability, standardization, comprehensiveness and flexibility.

The proposed classification builds on the work of regional and international organizations to assess ocean-based sectors. It also takes into account national ocean economy classifications, the structure of existing international classifications of goods and services, lessons learned from the implementation of ocean economy trade strategies of the United Nations Division for Ocean Affairs and the Law of the Sea and UNCTAD, the UNCTAD Oceans and Fisheries Programme and the UNCTAD blue biotrade approach and projects.

The classification presented here benefited from the guidance and inputs from experts from international organizations, the private sector, Governments, academia and civil society.

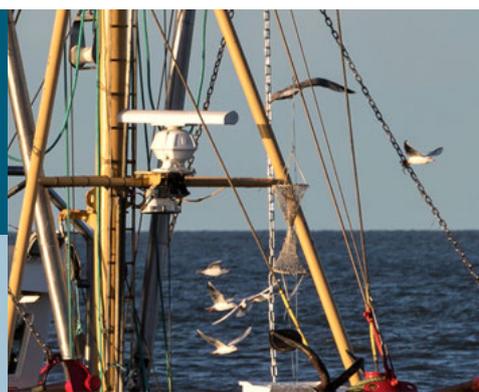


The classification features three categories: goods, services and energy. Each category is divided into chapters (A-M), and each chapter is subdivided into a three-digit level of detail covering 52 subsectors.

The classification sectors are as follows:

- A.** Marine fisheries
- B.** Aquaculture and hatcheries
- C.** Seafood processing
- D.** Sea minerals
- E.** Ships, port equipment and parts thereof
- F.** High-technology and other manufactures not elsewhere classified (NEC)
- G.** Marine and coastal tourism
- H.** Trade in fisheries services
- I.** Maritime transport and related services
- J.** Port services, related infrastructure services and logistical services
- K.** Coastal and marine environmental services
- L.** Marine research and development and related services
- M.** Ocean energy and renewable energy





# INTRODUCTION

Oceans contribute to supply oxygen in the Earth's atmosphere; absorb half of all global carbon emissions; help mitigate the impact of climate change; and determine weather patterns, temperatures and water cycles (United Nations, 2020). They account for 80 per cent of the planet's biodiversity (World Economic Forum, 2020) and are major contributors to food security and livelihoods; in fact, about three billion people rely on marine and coastal biodiversity for their livelihoods. Oceans are also vital to the world's economy – over 80 per cent of global trade is carried out at sea (UNCTAD, 2019a). Over the years, oceans have supported a wide range of economic activities and continuous innovation in traditional sectors (fisheries and transport), fast growing industries (aquaculture, marine pharmacology, marine research and development services) and many others (OECD, 2019a).

Despite the importance of oceans to human life and economic prosperity, not enough has been done to mitigate the risks that unsustainable industrial and consumer practices pose to its health, nor to address the negative impact from climate change.

Human activities such as overfishing (about 34.2 per cent of all fish stocks are at unsustainable biological levels) (FAO, 2020) and pollution caused by chemicals and plastics, which continue to enter the ocean at an alarming rate,<sup>1</sup> have led to the extinction of species, variations in ocean biomass levels and the degradation of ecosystems. The latter is responsible for the loss of half of the world's living corals (United Nations, 2020). In addition, the impact of climate change on the oceans has prompted a rise in sea level and ocean temperatures, ocean acidification, deoxygenation, shifts in fish distribution, a decrease in fish stocks, coastal erosion and extreme weather events (UNCTAD, 2019b). Ocean-based economic sectors are being directly and indirectly affected by these trends. Failing to implement cohesive corrective actions will not only harm these ecosystems but will also put human health and well-being, jobs and economies at risk, and even more so in a post-pandemic world.

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<sup>1</sup> Every year at least 8 million tons of plastic end up in the ocean; this accounts for 80 per cent of all marine debris, from surface waters to deep-sea sediments. See <https://www.iucn.org/resources/issues-briefs/marine-plastics>, accessed 13 May 2020.

The international community and national Governments have been devoting considerable resources towards sustaining the ocean ecosystems, both in terms of legislative support,<sup>2</sup> as well as knowledge-sharing and capacity-building.<sup>3</sup> For instance, more and more countries and regions are putting in place strategic policy frameworks for better ocean management. In 2016, spatial ocean management initiatives were under way in about 50 countries. It is also expected that by 2025, more than 25 countries will have government-approved plans covering about 25 per cent of the world's exclusive economic zones<sup>4</sup> (Organization for Economic Cooperation and Development (OECD), 2016). International organizations and agencies and programmes such as the United Nations Division for Ocean Affairs and the Law of the Sea; FAO; International Union for Conservation of Nature; OECD; UNEP; United Nations Educational, Scientific and Cultural Organization; World Economic Forum and many others, are also allocating resources to the sustainable management of the oceans.

A much smaller share of resources, however, has so far been devoted to enhancing the understanding and sustainability of ocean-based economies in an integrated manner. Ocean-based industries interrelate and interact with each other and their ocean landscape in multiple ways (OECD, 2016). In most countries, however, policies and approaches regarding the development of ocean-based economic sectors within or across borders and the sustainable management of the oceans are often characterized by a silo mentality. The situation is particularly precarious in non-traditional ocean-based sectors for which there are rarely any specialized agencies – national or international – that could support their sustainable development.<sup>5</sup> Unlike the more traditional, ocean-based sectors, these non-traditional sectors lack prerequisites for thriving, such as institutional backing to support their efficiency and capacity, access to markets and sound policy and business environments. Further, information about these new sectors is scattered, making cooperation among economic sectors and between the public and private sectors more difficult. There is much to be done to improve policy coherence across borders so that countries can cooperate with their peers in managing marine ecosystems. The absence of such an enabling environment limits the effectiveness of policies and resources, and in turn takes a toll on incoming investments<sup>6</sup> and hampers the sustainable development of ocean-based sectors.

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<sup>2</sup> For example, an international legally binding instrument is being elaborated under the Convention on the Law of the Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction.

<sup>3</sup> For example, the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization is preparing the implementation of the United Nations Decade of Ocean Science for Sustainable Development (2021–2030). See [www.oceandecade.org](http://www.oceandecade.org), accessed 18 December 2020.

<sup>4</sup> Exclusive economic zones are one of the key features of the 1982 United Nations Convention on the Law of the Sea. The Convention recognizes the right of coastal States to jurisdiction and to exploit, develop, manage and conserve all resources to be found in the waters, on the ocean floor and in the subsoil. Article 57 (breadth of the exclusive economic zone) states that “The exclusive economic zone shall not extend beyond 200 nautical miles from the baselines from which the breadth of the territorial sea is measured”.

<sup>5</sup> Among the few exceptions are Barbados, Mauritius and Seychelles, which have ministries or departments exclusively dedicated to the blue and ocean economy.

<sup>6</sup> See, for example, Credit Suisse, 2020.

Another factor limiting the sustainable development of ocean-based sectors is the lack of availability and accessibility of quality, up-to-date economic data on trade, value added and employment, for example. This can be attributed to the following factors:

- There is no internationally recognized classification of ocean-based goods and services that can be used to identify and map sectors linked to the ocean economy.
- Only a handful of countries are collecting data broken down by ocean-based sectors.
- Given the lack of an international ocean economy classification, these data are not comparable across countries.
- Current classifications used for collecting good and services data are overly aggregated and lack detail and specificity. It is not always possible to determine the ocean-based sectors from these classifications.
- Gathering data on services by industries is particularly problematic at the national and global levels: the classifications used by most countries to collect services data are even more highly aggregated than for goods; other service data, which may have higher levels of disaggregation for certain sectors, do not necessarily include all countries or are not comparable across countries or sectors. Further, data collection may be costly.

The economic and trade aspects of ocean-based goods and services are a critical element of Sustainable Development Goal 14, especially targets 14.4, 14.6, 14.7 and 14.b, and subsequent calls for action and declarations. Yet, scant attention and resources have been directed towards these areas. In response to these concerns, the Nairobi Maaifikiano, paragraph 100 (t), calls on UNCTAD to take the following action: “in cooperation with other relevant international organizations and other stakeholders, support developing countries, in particular small island developing States, in the advancement of Sustainable Development Goal 14 in the design and implementation of regional and/or national economic development strategies for the conservation and sustainable use of oceans and their resources, seeking to promote sustainable trade in ocean-based sectors...” (UNCTAD, 2016).

The objective of this publication is to establish a basis for filling information and data gaps in the trade of goods and services in ocean-based sectors and to facilitate integrated actions that promote sustainable ocean-based economies. To do so, the publication proposes a sustainable ocean economy classification for tradable goods and services<sup>7</sup> that can be applied by all countries at any time. It has been conceptualized considering its application for the design of coherent policies and coordinated actions, for the assessment of pillars of sustainable ocean development<sup>8</sup> and a comprehensive analysis of the value-chain component of ocean-based sectors (goods and services).

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<sup>7</sup> That is, the classification does not include services provided by the oceans (e.g. ecosystems services such as clean water and air) or public services (e.g. customs services).

<sup>8</sup> See <https://unctad.org/topic/trade-and-environment/oceans-economy> (accessed 8 January 2021).

The proposed classification was developed with guidance and inputs from industry experts from international organizations, the private sector, Governments, academia and civil society. It includes ocean-based goods that are directly harvested from the oceans (e.g. fish and sponges), cultivated from marine species (e.g. cultivated shrimp or pearls), ocean-based raw materials (e.g. corals and salts), marine-based processed goods (e.g. fish oils, prepared and preserved fish, marine pharmaceuticals), and products for carrying out ocean-based activities (e.g. fishing gear, boats, appliances and equipment for maritime transport and ports, products and technologies for aquaculture, machineries and appliances for fish processing, high-technology manufactures for clean energy and marine sports products). The classification also includes ocean-based services that use marine ecosystems for the delivery of services (e.g. coastal tourism and maritime transport) or seek to conserve, sustainably use or clean up the marine environment (e.g. environmental services), support marine industries (e.g. trade in fisheries services, port-related infrastructure and logistical services) or seek to develop new innovation or processes based on marine resources (e.g. marine research and development, and scientific and technical consulting services). The classification also includes ocean-renewable energies (e.g. offshore wind energy, tidal power and wave power).

Chapter II of this report aims to reach those who seek to achieve the sustainability of the oceans, as well as those who work in the ocean economy and trade. It sets the context in which ocean-based sectors evolve and outlines the five pillars of sustainable ocean development established by UNCTAD. The chapter also sheds some light on the challenges, current strategies and the relevance of trade for the development of these sectors. Chapter III introduces the international classification that has been used for the development of ocean economy classifications and the frameworks underpinning current international goods and services classifications used for collecting data. Chapter IV discusses the guiding principles for the development of the ocean-based classification proposed in this publication, and the methodology and limitations of the classification. It presents and maps the sectors and subsectors of the sustainable ocean economy classification for tradable goods, services and energy. Annex 3, which contains an online Excel component,<sup>9</sup> provides a comprehensive mapping of the proposed sustainable ocean economy classification; the annex describes the ocean-based sectors and identifies relevant goods and services codes of existing classifications for each subsector. Chapter V offers guidelines on the use of the classification and recommendations for the way forward.

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<sup>9</sup> Excel version available at [https://unctad.org/system/files/non-official-document/ditcted2020d4\\_excel\\_en.xlsx](https://unctad.org/system/files/non-official-document/ditcted2020d4_excel_en.xlsx).



## A SUSTAINABLE OCEAN-BASED ECONOMY AND THE FIVE PILLARS OF SUSTAINABLE OCEAN DEVELOPMENT OF UNCTAD

At present there is no commonly agreed definition of a “sustainable ocean economy”. For most United Nations agencies and the World Bank, sustainable ocean-based economies<sup>10</sup> and blue economies<sup>11</sup> encompass all industries that utilize and contribute to the conservation of ocean, sea and coastal resources for human benefit in a manner that sustains all ocean resources over time.<sup>12</sup>

All definitions in the relevant literature affirm that an ocean-based economy must ensure the sustainable use and conservation of the ocean-based marine environment, related biodiversity, ecosystems, species and genetic resources, including marine living organisms (from fish and algae to micro-organisms) and natural resources in the seabed (OECD, 2016, 2019; United Nations 2020; UNCTAD, 2019b). All recognize the interdependencies that exist between ocean-based industries and marine ecosystems.<sup>13</sup> Most definitions also refer to economic activities that support the functioning of ocean-based economic sectors – these can be located anywhere, including in landlocked countries.<sup>14</sup>

In line with all these definitions, this publication focuses on tradable sectors. It does not include services provided by the oceans, i.e. ecosystems services such as clean water and air, as including them would imply a different accounting system that goes beyond economic activities strictly speaking.

The landscape of ocean-based economies has undergone a profound transition over the past 30 years. It shifted its focus from the more traditional domains – for example, shipping and fishing – to include activities such as tourism and a much larger array of new goods and services that are continuously expanding and reshaping traditional industries. Examples of new industries include the following: offshore aquaculture, marine pharmacology, marine biotechnology, renewable energies (e.g. offshore wind, tidal and wave energy), low-carbon vessels and maritime technologies, maritime surveillance, environmental services, and research and development services. Such

<sup>10</sup> The term “sustainable ocean-based economies” is used in the 2020 United Nations Ocean Conference Declaration (United Nations, 2020).

<sup>11</sup> The term “blue economy” may not be used identically worldwide, for instance the definition of the Economic Commission for Africa includes lakes, rivers and other bodies of water, in addition to oceans (see [www.uneca.org/publications/blue-economy](http://www.uneca.org/publications/blue-economy); accessed 18 December 2020).

<sup>12</sup> See, for example, United Nations, 2020; UNCTAD, 2018, 2019a; United Nations Development Programme, 2018; World Bank and United Nations, 2017.

<sup>13</sup> Some countries and organizations are attempting to assess the value of oceans. For instance, OECD defines the ocean economy as the sum of the economic activities of ocean-based industries, together with the assets, goods and services provided by marine ecosystems and recognizes the interdependency of those two pillars (OECD, 2016).

<sup>14</sup> For instance, Collgan, 2016; European Commission, 2019; OECD, 2016; and UNCTAD, 2018.

sectoral developments have been a direct result of technological advances, climate change, a growing demand for environmental sustainability and healthy products, as well as an increase in global population. These recent trends are expected to continue offering opportunities for employment creation and economic growth and for addressing the multiple challenges faced by the planet (OECD, 2016; UNCTAD, 2019b).

The emerging landscape poses some daunting challenges, however. The overexploitation of the natural resources of the ocean, pollution, declining biodiversity and climate change have put enormous stress on the ocean ecosystem. The challenge is particularly great for developing countries where ocean-based sectors have often expanded without taking into consideration their adverse impact on environmental and social sustainability. Most of these countries are not equipped to handle the challenges before them (OECD, 2019b). In particular, the least developed countries and small island development States find themselves at the forefront of the negative impacts of climate change and ocean pollution (UNCTAD, 2019a). Unless a holistic and sustainable use and management of marine and coastal ecosystems is encouraged, the growth of critical ocean-based sectors in developing countries may decline significantly (OECD, 2019b; UNCTAD, 2018, 2019a; UNEP, 2019a).

## 2.1 Oceans: Sustainable Development Goals and pillars of sustainable development

The push to develop more sustainable ocean-based economies contributes to the implementation and advancement of the 2030 Agenda for Sustainable Development, the Sustainable Development Goals, in particular, Goal 14 (life below water)<sup>15</sup> and its trade-related targets (see box 1), Goal 8 (decent work and economic growth), Goal 12 (sustainable production and consumption), Goal 2 (zero hunger) and Goal 13 (climate action). Furthermore, Heads of States and Governments, as well as high-level representatives at the Conference to Support Implementation of the 2030 Agenda for Sustainable Development Goal 14, in its 2017 Call for Action, paragraph (q), exhorts all parties to: “support the promotion and strengthening of sustainable ocean-based economies, which inter alia, build on sustainable activities such as fisheries, tourism, aquaculture, ... as means to achieve the economic, social and environmental dimensions of sustainable development, in particular for the least developed countries and small island developing States (General Assembly resolution 71/312 of 2017).

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<sup>15</sup> Goal 14 has 10 targets, which include tackling marine pollution, protecting marine and coastal ecosystems, minimizing ocean acidification, sustainably managing fisheries and ending harmful fisheries subsidies, conserving coastal and marine areas and increasing economic benefits to the least developed countries and small island developing States.

**Box 1. Sustainable Development Goal 14: Oceans, selected targets****Targets directly related to trade**

- 14.4 Promote sustainable fishing – including the fight against illegal, unreported and unregulated fishing, conservation and management of marine living resources
- 14.6 End subsidies contributing to overfishing
- 14.7 Enhance the economic benefits from the sustainable use of marine resources to the least developed countries and small island developing States.
- 14.b Provide access for small-scale artisanal fishers to marine resources and markets.

**Other targets where ocean-based sectors can have a direct impact**

- 14.1 Reduce marine pollution
- 14.2 Increase scientific knowledge, research and technology for ocean health

Source: Our world in data's Sustainable Development Goal tracker, available at <https://sdg-tracker.org/oceans>, accessed 19 May 2020.

Given the risk of missing Sustainable Development Goal 14 targets set for 2020 (United Nations, 2020) (including targets 14.4 and 14.6; see box 1) and the speed and scale required for achieving Sustainable Development Goal 14, Member States of the United Nations recently revised the draft declaration of the 2020 Ocean Conference. This was an appeal to improve efforts in the area of data collection, cooperation and inclusion (United Nations, 2020, p.3), as stated in the following point:

- “Strengthen international, regional, sub-regional and national data collection efforts and improve the timely sharing and dissemination of data and knowledge, including by making data widely accessible through open access databases, investing in national statistical systems, standardizing data, ensuring interoperability between databases, and synthesizing data into information for policy-and decision-makers.”

Meeting the above targets and objectives will entail the design and implementation of coherent policies at the sectoral and national levels, and of trade and environment policies. For instance, the achievement of targets 14.4, 14.6, 14.7 and 14.b require a strong and functioning trade and ocean regulatory and governance framework, access to data and information to improve the overall quality of decisions or utilization of resources (financial, legal, economic, technological and social), as well as the design of evidence-based ocean economy trade and investment policies and strategies. It will also require monitoring, surveillance and enforcement capacities and enhanced technologies and innovation to ensure the sustainable use of marine resources within and beyond areas of national jurisdiction.

UNCTAD proposes a five-pillar approach as a framework to ensure the sustainability of ocean-based economies in a way that supports the achievement of the Sustainable Development Goals at the national, regional and international levels (figure 1). This approach falls under the UNCTAD mandate on oceans and seas to support developing countries, as stated previously (Nairobi Maafikiano, paragraph 100 (t); UNCTAD, 2016). This approach to sustainable trade in ocean-based sectors aims to foster economic, social and environmental benefits in an integrated and effective legal and institutional ocean governance framework. The approach has been piloted in the UNCTAD–Division for Ocean Affairs and the Law of the Sea project on the ocean economy and trade strategies.

**Figure 1**  
Pillars of sustainable  
ocean development  
of UNCTAD

Source: See <https://unctad.org/topic/trade-and-environment/oceans-economy> (accessed 8 January 2021).

Economic pillar	Environmental pillar	Social pillar	Scientific pillar	Governance pillar
Sustainable economic development	Sustainable use and conservation of marine resources	Inclusive development with a focus on developing countries, the least developed countries and small island developing States	Increased scientific knowledge and technological collaboration	Ocean governance under the United Nations Convention on the Law of the Sea and multilateral trade and fisheries agreements

### ■ Economic pillar

The economic dimension of oceans is designed to promote sustainable economic growth in key ocean-based sectors, increase value addition, enable and further strengthen connectivity for people and markets, advance sustainable trade and improve market access for ocean-based goods and services. Trade is an enabling factor in the development of goods and services and in reaching global markets, which is particularly important for developing countries where domestic markets are small.

The precise value of the global ocean-based economy is uncertain. Lack of a classification that clearly defines the goods and services that fall within the ambit of an ocean-based economy, data gaps in terms of sectors and country coverage, and differences in analytical frameworks used for determining its value make it difficult to agree on a single estimate. For instance, OECD estimates the value of the ocean economy at \$1.5 trillion, i.e. 2.5 per cent of global gross domestic product, by using national account data from 2010 (OECD, 2016). UNCTAD and the United Nations Development Programme estimate a value between \$2.5 trillion and \$6 trillion and between 3 per cent and 7 per cent of global gross domestic product based on the estimated sizes of key ocean-based sectors (UNCTAD, 2020; United Nations Development Programme, 2015). The World Ocean Council estimates the economic value of ocean goods and services in the range of \$6 trillion and \$21 trillion (Patil et al., 2016). Yet, what is certain is that the ocean-based sectors of the economy are growing and so is their share in the gross domestic product of coastal countries.

## ■ Environmental pillar

The environmental pillar encompasses policies and actions that will foster sustainable access to and use of living marine resources within safe ecological limits (i.e. maximum sustainable yield), curb biodiversity loss, and advocate and enforce precautionary and ecosystem approaches. It also covers assessments and efforts to address the impact of climate and marine pollution, consider its transboundary effects and develop and implement well-tailored mitigation and adaptation strategies.

As discussed in chapter I, the health of the oceans is declining, and it is at a dangerous level. The increased exploitation of fish and other living marine resources due to overfishing<sup>16</sup> has led to an increase in the percentage of stock fished at biologically unsustainable levels; in 2017, it reached 34.2 per cent (FAO, 2020). Climate change and greenhouse gas emissions are changing the chemistry of oceans, rapidly bleaching coral reefs in many regions and causing sea levels to rise. Land pollution through fertilizer run-offs and the irresponsible disposal and leakage of chemicals, sewage and litter such as plastics into the oceans, are creating oxygen-depleted dead zones and perturbing the food chain with heavy metals, microplastics and algae blooms affecting species and ecosystems alike. Some 8 million tons of plastic are being released into the oceans every year (International Union for Conservation of Nature, 2020). Barring improvements to waste management infrastructure, it is estimated that the mass of cumulative mismanaged plastic waste input into the ocean will reach 250 million metric tons by 2025<sup>17</sup> (Jambeck et al., 2015).

The unsustainable use of the oceans and ocean resources threatens the very basis on which much of the world's welfare and prosperity depend (OECD, 2016, 2019a). To meet these challenges, it is necessary to strengthen countries' environmental pillars by developing policies and creating a business environment that will allow for the sustainable development of environmental goods and services.

## ■ Social pillar

The social pillar relates to inclusive human development. It calls for the development of livelihoods for coastal populations (e.g. infrastructure and an enhanced business environment), decent working conditions (e.g. safety at work and social benefits) and empowerment (e.g. access to education and economic resources), especially of small-scale and artisanal fishers and vulnerable people such as women, the elderly and youth.

The pillar also calls for the assessment of local employment sources, food security considerations and respect for local tenure and rights over marine resources. More than 40 per cent of the global population lives within 100 km of the coast, and 13 of the world's 20 megacities lie along coasts (FAO, 2014). Some of the poorest segments of the population of coastal countries live by the coast and are most vulnerable to climate change and the direct impacts of a decline in the health of the oceans. It is estimated that 3 billion people depend on marine and coastal biodiversity for their livelihoods. According to recent reports, in some countries, such as Kenya, up to 62 per cent of those living below the poverty line rely on the coastal and marine ecosystem for employment, livelihood and nutrition (World Bank, 2016).

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<sup>16</sup> This is largely explained by the overcapacity of fleets, harmful subsidies and lack of adequate management of the ocean (FAO, 2018).

<sup>17</sup> Estimations based on populations living within 50 km of a coast in 192 countries.

### ■ Scientific pillar

This pillar focuses on the need to increase scientific knowledge, technological access and collaboration in the area of ocean-based economies. This includes incorporating low-carbon activities and renewable energy technologies for the use, maintenance and management of oceans and coasts and promoting marine-related investment in applied research and development, and technology and knowledge-sharing in this regard. It also covers the need to enable capacity-building and strengthen cooperative frameworks within scientific and academic communities for the development of new and innovative ocean-based goods and services.

Scientific advancement has enhanced the assessment of ocean ecosystems and unleashed previously unattainable economic opportunities to become feasible. Some examples of the latter include marine biotechnology, aquaculture, marine-based biofuels, and tidal and offshore wind energy. Nevertheless, limited scientific knowledge, large data gaps in the ocean's ecosystem and lack of investment, compounded by the complexity and uncertainty of the ocean environment, continue to be the key obstacles to an effective integrated ocean research framework.

### ■ Governance pillar

The governance pillar focuses on the need for countries to incorporate regulatory and policy obligations of the United Nations Convention on the Law of the Sea and other international agreements to which a country is party, such as the Agreement for the Implementation of the Provisions of the United Nations Convention on the Law of the Sea of 10 December 1982 relating to the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks (1995) in their own national legislation. This pillar also includes policies that ensure compliance and enforcement in line with countries' development priorities and that establish the mechanisms to pave the way for the development of a sustainable ocean economy and strengthen the necessary inter-agency and intergovernmental cooperation.

The interrelationship between the uses and processes regarding the coasts and oceans makes it imperative that ocean governance be integrated, precautionary and anticipatory (OECD, 2016). Policies for better ocean management, whether national or international, should be based on an ecosystem approach and must comply with the international framework on ocean governance. The United Nations Convention on the Law of the Sea and its implementing agreements establish the legal framework within which all activities in the oceans and seas must be carried out. Most countries are party to multilateral environmental agreements, FAO fisheries agreements and soft law agreements. Countries must also comply with other multilateral and regional instruments to which they are party and that can have a direct bearing on the ocean economy. Some of these include agreements under the umbrella of the International Labour Organization, the International Maritime Organization and the United Nations Educational, Scientific and Cultural Organization. As far as international trade is concerned, most countries are parties to WTO multilateral trade agreements. Several countries are also parties to the UNCTAD global system of trade preferences among developing countries (1988) and almost all countries are party to at least one regional, plurilateral (countries from different regions of the world) or bilateral trade agreements.

Ocean governance frameworks face several challenges today. There is an urgent need to improve the health of the oceans, address counterproductive incentives such as fish and fuel subsidies, and respond to any threats that a post-pandemic world may pose to the ocean economy. Most importantly, international efforts need to be well coordinated to ensure that the achievements of the last few decades, particularly with regard to an ocean economy, are not cancelled out.

## 2.2 Challenges, strategies and missing linkages for a sustainable ocean-based economy

The five pillars of sustainable ocean development described above are not independent stand-alone plinths; they are intrinsically connected at both the national and the international levels. To move towards a sustainable ocean economy, policies and strategies must be based on a sound understanding of the existing state of the ocean-based sectors. Policies and strategies must also ensure coherence between relevant industries and marine ecosystems management, and these in turn should be aligned with the Sustainable Development Goals. Seeking the sustainable development of the ocean economy is also about setting up strong international platforms for cooperation to ensure better ocean management, not only within but across national borders.

With the declining health of the oceans and growth of ocean-based activities, there is a mounting need for an international ocean economy classification and sectoral-level data. This is particularly important for the assessment and design of policies and strategies. Furthermore, consistent data are also necessary for effective ocean management across national borders (OECD, 2016).

The lack of data on ocean-based sectors has pushed several coastal nations<sup>18</sup> to devote more resources towards measuring their ocean economy. Efforts are being made by countries to assessing market transactions (i.e. ocean-based economies' contributions to national income) and the value of the natural resources of the oceans (i.e. assets and the marine and coastal ecosystems services).

Similar efforts are being conducted at the regional and international levels. For instance, at the regional level, European countries facing the Mediterranean are making attempts to systematically estimate the value of Mediterranean ecosystems (European Commission, 2017). OECD is supporting countries in assessing the value of their ocean ecosystem services and in fostering innovation (OECD, 2019b). The United Nations and the World Bank, too, are lending support to the least developed countries and small island developing States in tracking and measuring ocean-based activities.

Resources have also been earmarked for ocean-based sector classification, as consensus and partnerships are likelier to exist when clusters of economic activities are perceived as an economic system, rather than a fragmented collection of individual sectors (OECD, 2016). All of this will allow clusters to benefit from more coherent strategic approaches to their development. Over the past decade, numerous developed and developing nations have devised their own ocean economy classification.<sup>19</sup> The level of detail in terms of sectors and subsectors is different across countries, as these depend on a country's intrinsic characteristics and the availability of resources.

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<sup>18</sup> Examples can be found across the globe. Among the developed countries, examples are Australia, Canada, Japan, most countries in Europe, Norway and the United States; and among the developing countries, Kenya, Mauritius and Seychelles.

<sup>19</sup> For discussion, see Colgan, 2016; OECD, 2016, 2019a; UNCTAD, 2018; and Wang, 2016.

Some countries are also taking this one step ahead by developing an ocean economy strategy. For example, the Division for Ocean Affairs and the Law of the Sea and UNCTAD support Barbados, Belize and Costa Rica in the design of their countries' ocean economy and trade strategies.<sup>20</sup>

Examples of initiatives on developing ocean economy classification also exist at the regional and international levels. For instance, the Economic Commission for Africa and OECD, among others, are working on integrating ocean economy in member countries' national accounts. Table 1 provides examples of ocean economy mapping presented in reports on such regional or international initiatives; national classifications are much more detailed.

**Table 1 Ocean-based sectors identified by selected regional and international initiatives**

World Bank and United Nations	
<i>Type of activity</i>	<i>Activity subcategories</i>
Harvesting and trade of marine living resources	Seafood harvesting Usage of living marine resources for pharmaceuticals and chemicals
Extraction and use of non-living marine resources (non-renewable)	Extraction of minerals Extraction of energy sources Freshwater generation
Use of renewable non-exhaustible natural forces (wind, wave and tidal energy)	Generation of (offshore) renewable energy
Commerce and trade in and around the oceans	Transport and trade Coastal development Tourism and recreation
Indirect contribution to economic activities and environments	Carbon sequestration Coastal protection Waste disposal for land-based industry Existence of biodiversity

<sup>20</sup> See <https://unctad.org/en/Pages/DITC/Trade-and-Environment/Oceans-Economy-Trade-Strategies.aspx> (accessed 18 December 2020).

Economic Commission for Africa
<i>Blue economy sectors</i>
Fishing (inland, coastal and deep seas)
Aquaculture
Mariculture
Pharmaceuticals, chemicals and cosmetics
Genetic research
Deep-sea and seabed mining
Offshore oil and gas
Renewable energy
Marine salt harvesting
Coastal mining of sand, gravel and other resources
Construction materials
Port infrastructure
Shipbuilding and repairs
River transport
Tourism and recreation
Coastal protection
Marine ecosystem protection
Water resource protection
Cultural and religious practices
Biophysical, socioeconomic, and political research

Organization for Economic Cooperation and Development	
<i>Established sectors</i>	<i>Emerging sectors</i>
Capture fisheries	Marine aquaculture
Seafood processing	Deep- and ultra-deep-water oil and gas
Shipping	Offshore wind energy
Ports	Ocean renewable energy
Shipbuilding and repair	Marine and seabed mining
Offshore oil and gas (shallow water)	Maritime safety and surveillance
Marine manufacturing and construction	Marine biotechnology
Maritime and coastal tourism	High-technology marine goods and services
Marine business services	Other
Marine research and development and education	
Dredging	

Source: Economic Commission for Africa, 2016; OECD, 2016; World Bank and United Nations, 2017.

The most in-depth, notable study on ocean economy sector mapping to date is the one conducted by OECD (2016). This work was carried out under the OECD Future of the Oceans Project, which included 10 workshops and expert meetings, and aimed to “explore the growth prospects of the ocean economy and its capacity for employment creation and innovation” (OECD, 2016, p. 4). However, the mapping of sectors presented in the study has several shortcomings. Sector mapping does not allow its replicability at the national level, as the study does not provide a list of goods and services or related international classification codes of the ocean-based sectors discussed in the analysis. It only delves into a limited number of ocean-based economic sectors for which data are available in national accounts systems. These are the following: capture fisheries, seafood processing, shipping, ports, shipbuilding and repair, offshore oil and gas (shallow water), marine manufacturing and construction, maritime and coastal tourism, marine aquaculture and offshore wind energy. In addition, OECD (2016) does not take into consideration international trade flows of ocean-based goods and services that are important for the sustainable use and management of the oceans and the development of coastal economies.

Notwithstanding the progress made, the creation of an internationally comparable set of closely interconnected clusters is a distant aspiration. Significant differences among countries remain in the delineation of categories (Wang, 2016). Internationally agreed definitions and statistical terminology for ocean-based activities do not yet exist as such (OECD, 2016). Furthermore, the international classification used by countries in their national accounts is overly aggregated. Countries have had to unilaterally expand this classification to track their ocean-based sectors;<sup>21</sup> yet the assessment of ocean-based sectors across countries is difficult, if not impossible, to make.

<sup>21</sup> See chapter III for discussion on this regard.

An area that has received little attention in the ocean-based economy is trade. Despite its recognition as a key driver for attaining the Sustainable Development Goals, particularly Goal 14, this important dimension of an ocean economy has only been explored for a limited set of sectors such as fisheries, tourism or maritime transport;<sup>22</sup> only scattered information (mainly from case studies) is available for other sectors. No attempts have been made to map all sectors that are directly relevant to the ocean-based economies from the perspective of trade or value chains. Nor have there been efforts to map ocean-based sectors using classifications for goods and services trade that provide a higher level of disaggregation and that are usually applied to collect and analyse data and for policy purposes (e.g. trade negotiations).

Studying sustainable ocean economy from a trade perspective is important because ocean-based goods and services are already being traded, yet their impact on ocean ecosystem is largely unknown – notably concerning the sustainable use, management and governance of the oceans. Similarly, little is known about market access opportunities in ocean-based sectors, or the supply side gaps or the trade potential of the sectors. Even less is known about the interplay between trade and the interconnectivity and complexity of the sectors. Likewise, there is little information on social issues in this context, such as vulnerable communities or the prevalence of gender inequality.

Trade is an enabling factor in climate mitigation and adaptation and the mainstreaming of goods and services that are necessary for the sustainable development of ocean-based economies and of ocean ecosystems (UNEP, 2018). For instance, trade is an important determinant of access to environmentally friendly goods and services. The potential of ocean-based sectors for growth is great, and trade can serve as a driver of such growth, which is particularly important for developing nations, which are characterized by small domestic markets and geographical remoteness. As long as the necessary policy and business frameworks are in place, trade can pave the way for commercial ventures that can create new economic opportunities with a potential for rapid expansion because of global economic interconnectedness. Furthermore, with the expansion of services and technologies advances, all businesses – large or small – can access international markets. For instance, in Madagascar, seaweed farming has become a sustainable source of income for rural women and former fishers, as they can now sell their seaweed to foreign markets (UNEP, 2019a).

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<sup>22</sup> See, for instance, Keane et al., 2020.



## INTERNATIONAL CLASSIFICATIONS AND OCEAN-BASED ECONOMIC SECTORS

There can be several pathways towards developing a detailed classification of ocean-based goods and services, depending on national and local priorities and goals. Ocean-based economic sectors can be classified according to their nature, for instance, sectors involving the harvesting of living resources or those dealing with the extraction of non-living resources. They can also be classified based on already established and emerging sectors. In addition, economies may differentiate between industries that use resources from the ocean, activities that take place in the ocean or coastal areas, and activities linked to the ocean (Colgan, 2016).

Countries that have taken actions to measure the value of their ocean economy have done so through their system of national accounts (see box 2). This system, however, has many limitations. It does not allow for measuring the value of environmental assets and services or disaggregating data between exports, imports and production for national consumption. Furthermore, the level of aggregation of the classification does not always make it possible to distinguish ocean-based industries from other industries. Countries and the international community are looking into the application of the System of Environmental-Economic Accounting<sup>23</sup> framework to enhance understanding of the sustainable ocean economy. This considers the traditional ocean industries as well as other sectors that may also be a part of the ocean economy. While this initiative is a welcome step, it may not enable accurate assessments of trade within ocean-based sectors.

This chapter concentrates on the issue of classification. It introduces some existing classifications used nationally and internationally.

<sup>23</sup> Formerly the System of Integrated Environmental and Economic Accounting.

**Box 2. System of Environmental-Economic Accounting**

The international framework underpinning existing oceans economy classifications is the 2012 System of Environmental and Economic Accounting: A Central Framework. This is based on country national accounts but include measures of stocks (constituting the biophysical environment) and economic values of ecosystem services. The national accounts measure flows of economic activity in a specific period (e.g. economic value of inputs to the fishery). For the purpose of measuring the framework, a key weakness of the system of accounts is that it does not reflect real economic transactions but only the value added or purchase price values. It does not include self-produced intermediate goods or services, as these are not recorded in market transactions or included in national accounts. Neither does it include environmental activities (goods and services) and expenditures to deal with, for instance, natural hazards (such as shoreline erosion, flooding and inundation), all of which are key components of the ocean economy.

Source: Colgan, 2016.

### 3.1 National account classification: International Standard Industrial Classification

Most countries use the International Standard Industrial Classification (ISIC) in their system of national accounts (United Nations, 2008). ISIC is a four-level structure of mutually exclusive categories. It includes 21 sections and 99 divisions, which are subdivided into groups (three-digit level) and classes (four-digit level) (United Nations, 2008). The classification was last reviewed in 2008 (i.e. Revision 4) to offer a higher level of detail so as to better reflect the global economic structure, new production processes and emerging technologies.

ISIC does not always differentiate between goods and services, end use, or origin (e.g. between economic activities of the land and the oceans). This limits its utility to serve as a basis for developing an ocean economy classification, since the legal frameworks for goods and services, whether national or international, are different. Another shortcoming of ISIC, for its use in ocean economy, is that it groups too many products or services from various industries in a single code, which may or may not be a part of the ocean economy. This is the case, for instance, of research and development (no distinction is made between industries). However, certain ISIC codes can be assessed through trade lenses, as a table of correspondence exists between ISIC and other international classifications with higher levels of disaggregation, namely the Harmonized Commodity Description and Coding System (HS) and the United Nations Central Product Classification (CPC). The match is, however, imperfect, as classifications are made according to a different set of factors, and a CPC or an HS code corresponding to an ISIC code does not always exist.

Some countries, however, have tried to overcome these limitations by clustering or disaggregating national ISIC codes. For example, the European Union has grouped ISIC codes into sectors that are marine-based (e.g. fisheries and aquaculture) and marine-related, so as to measure the value of upstream and downstream activities in ocean-based sectors (e.g. seafood processing, marine biotechnology, shipbuilding and repair) (European Commission, 2019). Most countries also include public sector coastal and ocean competences such as defence, environmental protection, port

authority, and marine education and research in their ocean economy classifications. Yet, national classifications often tend to omit other important subsectors or processes that influence climate and biodiversity or other variables that may be more difficult to quantify (e.g. sea absorption of carbon dioxide, the role of mangroves in maintaining the available fish stock).

## 3.2 Trade classification of goods

The most detailed international classification of goods is the HS classification developed by the World Customs Organization. This nomenclature is used by customs services around the world to clear and register trade. Although HS has many shortcomings, it is the only classification system that can serve as a reasonable basis for collecting trade data and grouping products to assess ocean-based sectors and value chains for purposes of trade negotiations and tracking trade commitments.

Other classifications of goods include the Standard International Trade Classification, which puts HS codes into clusters to create commodity groupings (United Nations, 2006); the ISIC classification (discussed above) and CPC (United Nations, 2015). While the structure of CPC is closely aligned with the HS codes, a single HS code can often belong to more than one CPC class. Because CPC is not normally applied to the collection of data on goods but rather to WTO and free trade agreements services negotiations, the classification is discussed further in section 3.3, Trade in services classifications.

### ■ Harmonized Commodity Description and Coding System

HS is the international nomenclature for the classification of goods.<sup>24</sup> HS codes are used by customs officers to clear commodities that enter or cross any international border (e.g. application of rules of origin, determination of duties and taxes to be paid at the border, quota controls and other non-tariff measures). It is also extensively used by Governments, international organizations and the private sector for purposes such as conducting trade negotiations, framing trade policies, monitoring controlled goods (e.g. protected species), determining freight tariffs, developing transport statistics, monitoring prices and performing economic research and analysis (World Customs Organization, 2020a). As a universally accepted nomenclature, HS is considered an indispensable tool for use in international trade.

The classification system includes 21 sections and 99 chapters (two-digit level), broken down into headings (four-digit level) and subheadings (six-digit level). At the international level, countries share the same product nomenclature up to the HS six-digit level. At the six-digit level, the nomenclature comprises approximately 5,300 products. Nationally, countries often further disaggregate HS codes up to the level of 8 or 12 digits. These are referred to as national tariff lines.

HS classifies products according to their nature, the way they are made up (for example, medicine in measured doses such as tablets or ampoules), their final use and whether or not they are intended for retail sale. Additional criteria may, however, be applied to certain products (e.g. technological advances).

<sup>24</sup> See United Nations International Trade Statistics Knowledgebase, available at <https://unstats.un.org/unsd/tradekb/Knowledgebase/50018/Harmonized-Commodity-Description-and-Coding-Systems-HS> (accessed 18 December 2020).

HS is revised every five years to allow for new trends and issues that require global attention. Amendments to the nomenclature in the recent past have usually been motivated by changes in technology (e.g. addition of heading for light-emitting diode lamps), changing patterns of international trade (i.e. adding/deleting subheadings due to high or low trade volume or value) and to clarify certain product definitions to render them more consistent with scientific or customary terminology or with trade practice (e.g. adding new species of fish that were not traded significantly before). Amendments to HS nomenclature have also been made to help customs administrations monitor and control trade in goods, especially those having a social and environmental impact. For example, recent HS revisions include ozone-depleting substances, precursor chemicals to the manufacture of illicit drugs, hazardous wastes and endangered species (World Customs Organization, 2020a). The HS nomenclature currently in use is that of 2017. The latest revision was adopted in January 2020 and will come into force in 2022 (World Customs Organization, 2020b). This revision included changes concerning fisheries (which are not exclusive to oceans) but did not include changes that can contribute to more effective tracking of ocean goods. At present, a significant part of the ocean-based economy is not easily identified in the HS classification, across all HS sections.

Adding specific ocean-based goods to the HS classification seems more a matter of awareness rather than enforcement. Products sold in a market, whether local or international, must comply with several regulations, including indication of product ingredients and use. This information has already been collected by government agencies; this is not used for statistical purposes alone.

### 3.3 Trade in services classifications

Trade in services covers a wide range of intangible and heterogeneous activities on behalf of or at the request of another. This can be part of manufacturing activity, facilitate services (e.g. financial services) or stand-alone services (e.g. tourism). Services can be provided through four modes of supply (WTO, 2010a):

- Mode 1. Cross-border trade; only the service crosses the border (e.g. e-commerce).
- Mode 2. Consumption abroad; occurs when consumers consume services while outside their country (e.g. tourism).
- Mode 3. Commercial presence. The service supplier establishes its commercial presence in another country through branches or subsidiaries – foreign direct investment.
- Mode 4. Presence of natural persons; this is when an individual moves temporarily into the territory of the consumer in the context of the supply of services, whether self-employed or as an employee of a foreign supplier (e.g. consulting services and architects moving abroad to supervise construction work are providing services under this mode of supply).

Below is a summary of current trade in services classifications. None of the classifications hereafter distinguish between the above mode of supply.

### ■ United Nations Central Product Classification

This classification system, CPC, includes all goods and services that can be the object of domestic or international transactions. The system was developed to enhance harmonization among various fields of economic and related statistics and to strengthen the role of national accounts. It classifies goods and services based on its physical properties, its intrinsic nature and on the principle of industrial origin – i.e. it groups products that are outputs of a same industry, similarly to ISIC. Over the years, a few deviations from this standard have been accepted to allow for the maintenance of links to other product classifications and to address the need for statistics in other frameworks. In addition, CPC sections 0 to 4 have been closely aligned with the HS classification. CPC version 2.1 includes a table of correspondence between CPC and HS 2007 and between CPC and ISIC Revision 4. Because of the nature of these classifications, the correspondence is not perfect (United Nations, 2015). With regard to services, no comprehensive service classification existed at the time CPC was created. Previous CPC versions (provisional CPC) have been used alongside classifications for trade negotiations. Nowadays, CPC version 2.1, which dates back to 2015 (United Nations, 2015), is used to assess unresolved trade negotiations issues, for instance, negotiations on maritime transport and environmental services.

The CPC categories are mutually exclusive, hierarchical and extend up to five-digits, one digit for each level of detail. It comprises 10 sections, 71 divisions, 329 groups, 1,299 classes and 2,887 subclasses. The maximum level of detail is five digits (United Nations, 2015).

CPC version 2.1 does not systematically differentiate between marine and terrestrial activities. Other than traditional industries, it does not discern ascribable ocean-based activities from those attributable to services supplied in relation to other activities (e.g. marine fisheries and aquaculture services beyond “services incidental to”) (FAO, 2019b). Yet this provides the best framework for ocean-based services.

### ■ World Trade Organization services sectoral classification

The official classification used in trade in services negotiations, known as W/120, was developed in 1991 in the framework of the WTO negotiations on services. At the time, countries provided their list of commitments for opening their service sector. The classification includes 12 sectors, 56 subsectors and 116 headings (WTO, 1991; see also [https://www.wto.org/english/tratop\\_e/serv\\_e/serv\\_sectors\\_e.htm](https://www.wto.org/english/tratop_e/serv_e/serv_sectors_e.htm); accessed 18 December 2020). The classification includes a table of correspondence with the provisional CPC version. The correspondence between those classifications and CPC Revision 4 is not always straightforward; W/120 sectors and subsectors do not follow the same logic as CPC.

The W/120 classification is used solely for trade in services negotiations and, at present, not for statistical purposes. This is considered to be unduly aggregated, which is why it is usually complemented by the CPC classification when used for studying countries commitments or when the interpretation of which services are included in a sector is required. Similarly to other classifications, it does not differentiate between marine and terrestrial activities, except for maritime transport and supporting services for maritime transport.

### ■ Balance of Payments Manual, sixth edition

The International Monetary Fund developed the *Balance of Payments Manual* (BPM) to guide countries on how data should be collected to ensure data compatibility across countries. The latest edition, the sixth (BPM6), was developed in 2007. It captures data on trade in services between residents and non-residents. It consists of 12 categories, which in turn are divided in subheadings at the four-digit level (International Monetary Fund, 2009). Ocean-based industries can be found across different sectors, and many ocean industries are aggregated as part of larger categories, for example, “manufacturing services on physical inputs owned by others” includes all types of industries as diverse as shipbuilding and packaging of food products.

At present, service data, which are comparable across countries, are primarily collected by means of this classification. Most countries report trade in services data broken down by the 12 main categories only (WTO, 2010). Some countries additionally report data using the Extended Balance of Payments Services Classification, which further details the 12 BPM6 categories by adding subheadings (four-digit level) set out in International Monetary Fund (2009); the Extended Balance of Payments Services Classification features 74 types of services. The level of detail, however, remains highly aggregated – much more than international classifications for goods.

Except for maritime transport, the classification does not differentiate between land or ocean-related services. This is a serious limitation, as countries’ key services (with high economic impact and whose management is critical for sustainable ocean ecosystems) can only be assessed through case studies or estimations that require many assumptions; this is the case, for instance, of marine and coastal tourism. Such data weakness is also a disadvantage in taking corrective global actions or supporting the sustainable development of services.



# IV.

## A COMPREHENSIVE AND HARMONIZED SUSTAINABLE OCEAN- BASED ECONOMIES CLASSIFICATION

A review of the existing goods and services classifications has shown that ocean-based industries are included in all BPM6, CPC, HS, ISIC and W/120 classifications. The identification of codes that form a part of ocean-based economies is not straightforward and may thus vary from one country to another. In most cases, the identification of goods and services requires substantive levels of technical and practical knowledge within each sector. As it is, countries wishing to assess their ocean economy quantitatively will need to invest first in identifying relevant goods and services codes. At the global level, a comprehensive cross-country assessment of the ocean economy is not yet possible. Furthermore, research on ocean-based sectors has shown that their legal and institutional frameworks tend to be structured in isolation from each other. This is true particularly in the case of non-traditional sectors, as they are diverse, and little is known about them.

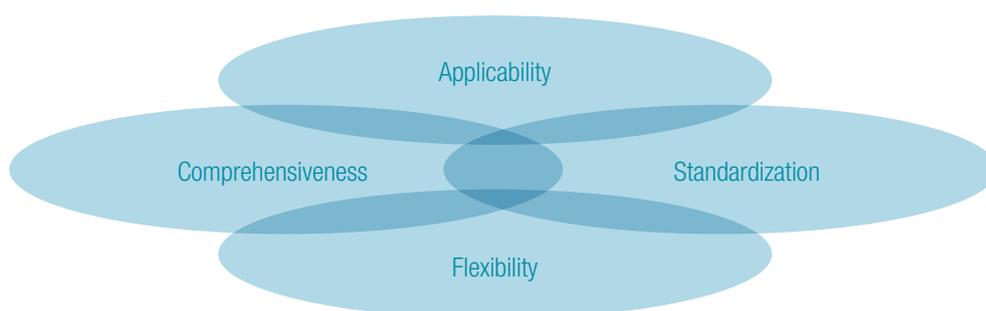
Keeping in mind all these reasons, the first step towards the development of a cohesive and inclusive ocean-based framework is to make a harmonized and comprehensive sustainable ocean economy classification from a trade perspective. For the development of such a classification, the following tasks were accomplished:

- Compilation of all relevant existing international goods and services classifications currently in use for the collection of goods and services data and other related policy purposes.
- Definition of the framework and methodological base, at the national and international levels, for measuring the scale and performance of ocean-based sectors.
- Mapping and definition of ocean-based sectors.
- Alignment of defined sectors with existing international classifications. This makes it possible to identify the limitations of the classification, its application and what needs to be done for the enhanced mapping of ocean-based goods and services.

This chapter provides the framework, principles and objectives that should underpin the development of an ocean economy classification. It also discusses the methodology, limitations and structure of the proposed classification.

The sustainable ocean economy classification outlined in this publication is in line with Sustainable Development Goals 8 and 14, and its relevant targets, as well as with government resolutions and international agreements relating to trade, economic growth and the sustainability of the oceans.

The primary objective of the proposed sustainable ocean economy classification is to facilitate data collection for the study of ocean-based sectors, enable the trade assessment of ocean-based goods and services, and allow the design of evidence-based policies and strategies to foster the contribution of the oceans to the overall economy, the society and the environment. As shown in figure 2, the main principles and features of the classification are interconnected.



**Figure 2**  
Main principles  
for the construction  
of a sustainable  
ocean economy  
classification

Source: UNCTAD.

The four main features of the classification are described below:

- **Applicability.** The classification builds on the existing classification; for each ocean-based subsector, it provides the products and service codes of international classifications, hence enabling data collection through existing databases or surveys. Furthermore, clusters of goods and services have been created to facilitate the measurement of an industry and its value chain – i.e. the classification captures the complementarity between goods and services. The classification structure has also considered trade policy frameworks to support existing and future negotiations between countries.
- **Comprehensiveness.** The classification maps all tradable ocean-based sectors and subsectors, whether or not specific product or service codes exist, or whether or not data are currently available. That is, all sectors that utilize or protect the ocean, sea and coastal resources and any other complementary subsectors intrinsic to the development of an ocean-based economy are covered. The classification, however, excludes public services, natural stocks and non-market assets and services provided by oceans and sectors that may cause great harm to the environment (see section 4.2).
- **Standardization.** The classification can be used by any country at any time. This will not only facilitate the study and monitoring of competitiveness and access to markets but will encourage partnerships at the local, regional and international levels. Partnerships are particularly important in developing a sector, while minimizing the impact on the ocean environment and marine resources. Furthermore, cooperation is essential in ocean management and the pursuit of technological innovation of ocean-based industries (OECD, 2019a).

- Flexibility. The classification can be adapted to revisions made to international classifications used such as CPC, HS and ISIC. These classifications allow countries to introduce their own level of statistical detail beyond the maximum digit level of the classifications, thus providing the necessary flexibility to accommodate national needs. These classifications, notably HS, are reviewed over time. As the sustainable ocean economy classification builds on the aforementioned classifications, it can be revisited as strides are made in the implementation of Sustainable Development Goal 14 and can contribute to the understanding of new and emerging ocean-based sectors. National authorities can further expand the classification to make it more appropriate to their specific industries so as to improve accuracy and serve local policy objectives.

#### **4.1. Methodology: Criteria for defining sectors and limitations of the classification**

The structure of the sustainable ocean economy classification presented in this publication was developed through UNCTAD fieldwork, exhaustive research on existing ocean-based economy classifications and other relevant sectoral classifications, and consultations with industry experts from the policy field and the private sector. The classification also incorporates lessons learned from the implementation of ocean economy trade strategies of the Division for Ocean Affairs and the Law of the Sea and UNCTAD, the UNCTAD Oceans Economy and Fisheries Programme and the UNCTAD blue biotrade approach and projects. Important sources for the identification of ocean-based goods and services were the following: the UNCTAD ocean economy classification in the framework of ocean economy trade strategies, the OECD mapping of ocean-based sectors and the classifications developed by Canada, China, the Economic Commission for Africa, the European Union, Japan, Kenya, Norway and the United States.

The main criteria used for the identification of subsectors and sectors and development of the classification are outlined below:

- Industries that fit into the definition of sustainable ocean-based economy are included in the classification. This covers industries that utilize the ocean, sea and coastal resources for human benefit in a manner that sustains the ocean resources over time and those industries that contribute to their conservation (see chapter II above).
- All services required for developing a sustainable ocean economy are also included. This comprises – but is not limited to – services relating to knowledge (e.g. consultancies), innovations (e.g. research and development on biotechnology), capacity (e.g. outsourced manufacturing processes) and financial resources. Similarly, all products needed for the development of a sustainable ocean economy are also included (e.g. technologies for clean up or remediation of water).
- Ocean ecosystems services are not included in this classification. They are subject to different metrics and valuation systems under the Economics of Ecosystems and Biodiversity initiative (see <http://www.teebweb.org/>; accessed 18 December 2020).
- A distinction is made between goods, services and energy, given that the policy and regulatory framework of these categories are different.

- Industries are divided into sectors and subsectors according to their value added. The value chain to which they belong and their end use are taken into consideration to facilitate future analysis. This type of classification also takes into account two other factors: the structure of existing international classifications for goods and services used to collect data (BPM6, CPC, HS and ISIC; see chapter 3 of this publication); and the goods and services groups used in market access regulation and trade negotiations, so that the classification can be used for policy analysis and design. Most notably, these are CPC, HS and W/120.
- The classification is designed to enable comparability and additivity across industries, geography and time, and must be mutually exclusive.
- Where a product or service can fall under more than one sector or subsector, it is included in a broader category. For instance, certain equipment and appliances are used for maritime transport and ports; these were grouped within the subsector “parts of vessels and inputs supporting navigation and ports” under the sector “ships, port equipment and parts thereof”.

In general, the sustainable ocean economy classification builds on the CPC and HS classifications, the most detailed international classifications of goods and services (see sections 3.2 and 3.3).

The specific goods and services belonging to each ocean-based subsector and the relevant CPC and HS codes were identified through a number of sources. The ocean economy classifications of the European Union and the United States were particularly useful, as they included a comprehensive list of sectors and provided national ISIC codes of goods and services, which were transposed into the CPC and HS classifications. The FAO classification for marine fisheries was key in identifying the HS codes belonging to the marine fisheries sector. Other sources were not specific to oceans; hence, all efforts were made to ensure that the goods and services included in the proposed classification were germane to the oceans, seas and coasts. Those sources included the following classification systems such as the following: the International Standard Statistical Classification of Fishery Commodities and the International Standard Statistical Classification of Fishing Gear, Revision 1 of FAO; Standard International Trade Classification, Revision 4, of the United Nations;<sup>25</sup> and high-technology aggregation by Standard International Trade Classification, Revision 4 (Eurostat based on OECD and the United Nations).<sup>26</sup> Available research and documents, such as that of the FAO Coordinating Working Party on Fishery Statistics (FAO, 2019a, 2019b), and the UNEP paper on technological products (UNEP, 2018), also provided helpful information to construct the classification. The identification of ocean-based goods and services was also based on desk research, consultations with experts (e.g. experts on marine pharmacology) and exporters of potential products that were part of the ocean-based sectors (annex 1). Occasionally, national tariff lines (i.e. higher than the HS six-digit level) were also used when necessary.

Because of the level of aggregation of the CPC and HS classifications for certain subsectors, quantitative analysis must be assessed with caution.

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<sup>25</sup> See <https://unstats.un.org/unsd/trade/sitcrev4.htm> (accessed 18 December 2020).

<sup>26</sup> See [https://ec.europa.eu/eurostat/cache/metadata/en/htec\\_esms.htm](https://ec.europa.eu/eurostat/cache/metadata/en/htec_esms.htm) (accessed 18 December 2020).

### ■ Limitations in making the classification

A commonly recognized hurdle in any analysis of goods and services is the level of aggregation of international classifications. This is also valid for CPC, which goes up to five digits, and HS, which goes up to six digits; these are the most highly disaggregated international classifications of goods and services. This problem can be resolved to a certain extent by using national tariff line with a higher level of disaggregation. Almost all countries create subcategories of existing international classifications. However, this is not possible at the global level, since tariff line codes can differ across countries. To cope with this limitation and avoid overestimating the value of sectors, the following rules were followed:

- If a product or service code definition applies to two different sectors, it was kept as part of the sector that may use this the most but its suitability to other sectors was flagged in the classification. For instance, HS code 841391 (parts of pumps for liquids, not elsewhere specified) was included as part of sector E23 (parts of vessels and other inputs NEC) and flagged as being part of sector F21 (technologies for... clean up or remediation of water), as this HS code is also used by exporters of pumps from the oil-spill industry.
- If a product or service code definition has multiple end uses and applications, and most of these are outside the ocean-based sectors, the code was excluded. For example, railways services are used in ports but are not the core of the industry, and such services are used largely by other industries such as land passenger transport and mining, which are not part of the ocean-based economy.
- Caution must also be observed with the short labels of goods and services codes defined in the CPC and HS classifications. Sometimes labels do not clearly match detailed descriptions, and the code includes a wide array of good and services. Consider the following examples pertaining to CPC:
  - ✓ 81126 Applied research services in agricultural sciences
    - The detailed description states: “This subclass includes applied research services related to agricultural techniques, fruit culture, forestry, stock breeding, fisheries, etc.”
  - ✓ 87154 Maintenance and repair services of medical, precision and optical instruments
    - The detailed description states: “This subclass includes maintenance and repair services of: surveying instruments, radiation detection and monitoring instruments, instruments and apparatus for measuring, checking, testing and navigating, and other purposes such as aircraft engine instruments, automotive emissions testing equipment, meteorological instruments,...”.
- Product codes may not reflect the importance of product categories in a sector. For instance, container vessels, bulk vessels and ice breaker vessels are lumped into a single HS code (i.e. HS 890190), while tankers (HS 890120) that are not as widely used as the other vessels have their own HS code.

The classification does not include principles of sustainable ocean management due to the structure of the CPC and HS classifications, the complexity of ocean management and the importance of keeping the classification within reasonable levels of applicability. Two additional factors should be taken into account:

- International classifications differentiate goods and services according to their intrinsic characteristics; no distinction is made regarding the environmental impact (sustainability) of a process or of production. Also, in most cases, classifications do not make reference to where a good or service is delivered or used for land or marine industries (e.g. classifications do not distinguish between maritime tourism and inland tourism services).
- Ocean ecosystems are subject to different sustainability management guidelines, most notably provisions and guidelines part of the United Nations Convention on the Law of the Sea<sup>27</sup> and other relevant United Nations conventions.<sup>28</sup> The guidelines consider physical ocean dynamics, natural changes and catastrophic changes (Patil et al., 2016). In addition, countries are not applying those guidelines to the same degree.

That said, the analysis of ocean-based sectors in relation to the sustainable management of the oceans can be conducted through the Sustainable Development Goals and the aforementioned five pillars of sustainable ocean development (section 2.1) to orient project assessments and implementation.

## 4.2. Deciphering the sustainable ocean economy classification

The sustainable ocean economy classification of UNCTAD is an attempt to include all tradable sectors that could have some link to a country's ocean-based economy. A comprehensive coverage of the ocean-based sectors will enhance understanding of the reach and importance of the ocean economy, spur collaboration across sectors and countries, and better monitor and predict changes for the economy, society and the marine environment. Nonetheless, the importance of each sector and subsector and availability of data will always be specific to each country.

The structure of the classification contains three broad categories: goods, services and energy. Each category is divided into chapters (A–M), and each chapter comprises subsectors up to a three-digit level of disaggregation. Only a few sectors, however, reach this level. Level 1 of the classification is set out in table 2.

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<sup>27</sup> For more on the United Nations Convention on the Law of the Sea, see [https://www.un.org/Depts/los/convention\\_agreements/convention\\_overview\\_convention.htm](https://www.un.org/Depts/los/convention_agreements/convention_overview_convention.htm) (accessed 18 December 2020).

<sup>28</sup> See database of the Division for Ocean Affairs and the Law of the Sea, available at <https://www.un.org/Depts/los/LEGISLATIONANDTREATIES/index.htm> (accessed 18 December 2020).

Table 2 Classification of the ocean economy by sector

<b>GOODS</b>		<b>A</b> Marine fisheries
		<b>B</b> Aquaculture and hatcheries <sup>a</sup>
		<b>C</b> Seafood processing
		<b>D</b> Sea minerals
		<b>E</b> Ships, port equipment and parts thereof
		<b>F</b> High-technology and other manufactures not elsewhere classified (NEC)
<b>SERVICES</b>		<b>G</b> Marine and coastal tourism
		<b>H</b> Trade in fisheries services
		<b>I</b> Maritime transport and related services <sup>b</sup>
		<b>J</b> Port services, related infrastructure services and logistical services
		<b>K</b> Coastal and marine environmental services
		<b>L</b> Marine research and development and related services
<b>ENERGY</b>		<b>M</b> Ocean energy and renewable energy <sup>c</sup>

Source: UNCTAD.

<sup>a</sup> Production only.

<sup>b</sup> Excludes services specific to trade in fisheries that are not related to transport.

The sustainable ocean economy classification depicted here only includes those tradable goods and services that pose a low or moderate environmental risk. As such, industries that are known to pose a high risk to the environment are excluded. Similarly, sectors that could have a negative impact on human, animal or plant health, for which developing countries have little practical or regulatory experience are also excluded. Industries with a high risk of environmental harm, which are not included in the classification, can be categorized as follows: offshore oil and gas, deep- and ultra-deep-water oil and gas, marine and seabed mining, and support activities for oil and gas operations (UNCTAD, 2009). Furthermore, services provided by government authorities and other public services, for example, services provided by customs officer or legal enforcement, are not included either.

This chapter presents all the sectors that form a part of the UNCTAD sustainable ocean economy classification. For purposes of clarity, the entire classification, without international codes, is presented in annex 2. The detailed classification, including international codes for goods and services (i.e. BPM6, CPC, HS and W/120)<sup>29</sup> is presented in annex 3 and is accessible online at [https://unctad.org/system/files/non-official-document/ditcted2020d4\\_excel\\_en.xlsx](https://unctad.org/system/files/non-official-document/ditcted2020d4_excel_en.xlsx).

## ■ Goods

### A. Marine fisheries

This sector includes catches and aquaculture used for commercial and industrial purposes. Catches or harvesting are fisheries products that are performed offshore by all types and classes of fishing units, including fishing vessels and gear. Aquaculture covers products that are a result of aquafarming or fish farming of saltwater organisms for human use or consumption, under controlled conditions (FAO 2019b). At present, trade data collected under HS codes on marine fisheries do not distinguish between catches and aquaculture.

The structure of the sector builds on the HS classification, the International Standard Statistical Classification of Fishery Commodities of FAO and the FishStatJ application. The sector differentiates between five groups of living marine organisms; subsectors A1 to A4 are further disaggregated according to value added products, namely: 1 (whole); 2 (parts, gilled, gutted and so forth); and 3 (fillet, meat, portions and sticks).

The sector is divided into the following subsectors (see annex 2 for further details):

A1 Finfish

A2 Crustaceans

A3 Molluscs

A4 Aquatic invertebrates other than crustaceans

A5 Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)

### B. Aquaculture and hatcheries

Aquaculture and hatcheries production is also known as aquafarming or fish farming. The FAO definition of aquaculture includes hatcheries; this is the same as for sector A (marine fisheries). That is, aquaculture refers to the farming of saltwater organisms for human use or consumption, under controlled conditions, and “is understood to mean the farming of aquatic organisms including fish, molluscs, crustaceans and aquatic plants. Farming implies some form of intervention in the rearing process to enhance production, such as regular stocking, feeding, protection from predators, etc. Farming also implies individual or corporate ownership of the stock being cultivated.” (FAO, 2021).

<sup>29</sup> Annex 3 does not include the ISIC codes due to time constraints and their relevance to trade, but these could be included by those interested in linking the ocean economy classification to ISIC (or to using national account data) through existing tables of correspondence; ISIC codes, however, have a greater degree of aggregation than CPC and HS and thus require some level of technical expertise and time allocation.

This sector only captures production data. The structure of the sector builds on FAO fisheries nomenclature – which is used for the collection of aquaculture production data – and the structure of sector A (marine fisheries). The sector is divided into the subsectors listed below (see annex 2 for further details). B1 distinguishes between three different groups of living marine organisms (such as A1 to A3); B2 is almost identical to subsector A5.

B1 Living marine animals

B2 Other living marine products (includes aquatic plants, seaweed and other algae, and cultured pearls)

### **C. Seafood processing**

The sector includes industrial fish processing, that is, fish that has gone through substantial transformation and mechanical or chemical operations, and can be fit for human consumption, animal feed or fertilizer production.<sup>30</sup>

The structure of the sector builds primarily on the HS classification and the International Standard Statistical Classification of Fishery Commodities of FAO. The product clusters of the sector are listed below. Subsector C1 is further disaggregated into marine organisms (similar structure to that of sectors A and B); subsector C2 distinguishes between products fit for human consumption and those that are not.

The sector is divided into the following subsectors (see annex 2 for further details):

C1 Prepared and preserved fish, crustaceans and molluscs

C2 Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates

C3 Fats and oils of fish or marine mammals

C4 Processed meals and dishes

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<sup>30</sup> Definitions based on OECD, 2016 and the FAO processing definition, available at <http://www.fao.org/flw-in-fish-value-chains/value-chain/processing-storage> (accessed 18 December 2020).

#### D. Sea minerals

This sector includes the production, extraction and processing of certain minerals such as sea salt and natural sea sand. The creation of a single sector for the two sea minerals (salt and sand) corresponds to their export value. Sea salts (also called brine or solar salts) are used as a seasoning in foods, cooking, cosmetics and other manufactured products such as paper pulp, plastics and chemical products, as well as for agriculture and water treatment purposes. It is estimated that about 40 per cent of global salt production comes from sea sources (Grand View Research, 2016). Marine sand is used for land reclamation (e.g. expansion of territory), environmental services (e.g. reconstructions of beaches to combat coastal erosion), and also for construction industry. In the case of sand extracted from coastlines where sources like granite or basalt has accumulated on beaches, sand is also used in jewelry, as pigments in paints, plastics, paper, foods and in electronics (UNEP, 2019b).

HS codes do not differentiate between the source or use of salts or sand. Trade data assessment of any of these two sets of goods will require assumptions concerning their origin, e.g. extraction by the sea versus mining rock salts.

The sector is divided into the following subsectors:

D1 Sea salt

D2 Natural sea sand

#### E. Ships, port equipment and parts thereof

The sector includes all products that are directly relevant to maritime transport and ports, such as vessels and boats, cargo-handling equipment and related supporting appliances, marine equipment and materials for navigational aid and ports (e.g. advanced sensing and communications, data management and informatics) and parts of vessels and other inputs (e.g. valves, cables, sensors and ship materials).<sup>31</sup>

The structure of the sector is based on CPC version 2.1 and HS classifications. It also benefited from advice provided by experts on maritime transport and ports from UNCTAD and the World Ports Sustainability Programme. Although all efforts were made to include HS codes that are directly relevant to the sector, any data analysis must be conducted with caution due to the limitations of such codes. As mentioned in section 4.1, certain six-digit HS codes may group products that are not part of the sector, for instance, HS code 841360 is part of vessels and appliances but is also used by exporters of machinery for oil-spill response purposes.

The sector is divided into the subsectors listed below:

E1 Vessels

E2 Parts of vessels and inputs supporting navigation and ports

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<sup>31</sup> Based on UNCTAD, 2019a; WTO, 2010b; and advice from experts on maritime transport and ports.

## F. High-technology and other manufactures not elsewhere classified

The sector includes high-technology products, i.e. products with advanced technological development, and all manufactures not classified in the previous sector that are required for the production or delivery of any ocean-based sectors.

Particular attention was given to the structure of high-technology marine products, as these are part of the fastest growing industries<sup>32</sup> and include industries that can significantly contribute to the sustainability of the oceans. Because of regulation and consumer demand, most new technologies are being developed to have the smallest possible carbon footprint. High-technology marine products are technologies that support activities such as marine renewable energy; marine environmental monitoring and resource management; carbon sequestration technology; oil-spill response equipment; fisheries and aquaculture; coastal tourism; and safety, security and surveillance.<sup>33</sup>

The sector also includes biotechnology products, which are products resulting from the application of science and technology to living organisms. Within biotechnology products, marine pharmacology and the chemical industry are expanding due to bioprospecting and the demand for novel products.<sup>34</sup> Within pharmaceuticals are drugs of marine origin containing properties that are antibacterial, immunomodulator, antifungal, anti-inflammatory, anticancer, antimicrobial, neuroprotective, analgesic and antimalarial. The sector also includes nutraceuticals (vitamins and food complements), personal care products, cosmetics, paints, adhesives, dyes and gels (UNEP, 2019a). Supply and equipment of the marine pharmaceutical and chemical industry are also part of the sector (e.g. bioreactors to produce pharmaceuticals). The selection of product codes was conducted under the guidance of marine pharmacology experts.

The sector also includes fishing and aquaculture gear that were identified by the International Standard Statistical Classification of Fishing Gear Revision 1 (FAO, 2016a) and exporters of equipment and appliance for fishing and aquaculture (see annex 1). Products for other manufactures were identified through the ocean classifications of the European Union and the United States, national HS classifications and producers' websites.

At present HS codes do not always allow to differentiate between products that are part of the marine industries supply chains and those that are not. For example, HS codes for pharmaceutical goods do not distinguish between the origins of the inputs used for a good. In other cases, such as in fishing gears, specific HS codes exist only for some products (e.g. fishing nets made of human-made textile materials are part of HS 560811; nets made of some synthetic fibres are part of HS 560750, which includes any twine, cordage, ropes and cables made of nylon, other polyamides or polyester). Data analysis of the sectors must bear in mind this caveat.

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<sup>32</sup> UNEP, 2018, a study on environmentally sustainable technologies, although not specific to oceans, finds that these technologies increased by over 60 per cent from 2006 to 2016 and that the two sectors that have grown the most are renewable energy technologies (accounting for more than one third of the total trade value), followed by wastewater management and water treatment and solid and hazardous waste management technologies.

<sup>33</sup> Description based on OECD, 2019a and UNEP, 2018; does not cover products that are excluded from this classification (e.g. related seabed mining).

<sup>34</sup> For information on marine pharmaceuticals that have been approved and are in phase 2 of approval, see Midwestern University dedicated website <https://www.midwestern.edu/departments/marinepharmacology/clinical-pipeline.xml> (accessed 18 December 2020).

The sector is divided into the following subsectors (see annex 2 for further details):

- F1 Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof
- F2 High-technology manufactures for environmental sustainability and clean energy
- F3 Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry
- F4 Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials
- F5 Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries NEC, part of the ocean economy)

## ■ Services

### G. Marine and coastal tourism

This sector comprises all establishments of which the principal activity includes facilities and services of ocean-related tourism and leisure activities. Examples include restaurants, hotels and seaside accommodation and campgrounds located near to or adjoining the coast; marine sports; recreational fishing; marinas; aquariums; and agencies providing services such as excursions to underwater cultural habitats.<sup>35</sup> The sector does not include cruise shipping, which is part of maritime transport because of the regulations and the inputs and services required.

The structure of the sector is based on a list of characteristic products of the tourism industry and grouping by main categories according to CPC version 2.1 (World Tourism Organization and United Nations, 2010). Given that international classifications and data do not differentiate between marine and coastal tourism and other types of tourism, any analysis must be conducted with caution, and the size of the marine tourism industry may vary from one country to another.

The services part of marine and coastal tourism is divided into the following subsectors (see annex 2 for further details):

- G1 Hotels and restaurants (includes catering)
- G2 Travel agencies and tour operator services
- G3 Tourist guide services
- G4 Recreational and other services

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<sup>35</sup> Description based on OECD, 2016; United Nations, 2015; World Tourism Organization and United Nations, 2010; and WTO, 1991.

## H. Trade in fisheries services

Trade in fisheries services is expanding as technologies advance and the demand for marine fisheries increases. The sector includes services that are specific to each stage of the production process (e.g. services to support harvesting or setting up aquaculture control systems) and others that apply horizontally to all phases of the value chain (e.g. supply-chain management consulting services).<sup>36</sup> According to FAO, “The fulfilment of a specific need regarding trade in fisheries services can create a new frontier for increasing their fish production in a more competitive and sustainable way, enhancing their participation in international trade and empowering the participants throughout the supply chain.” (FAO, 2016b).

Services are divided into the following subsectors (see annex 2 for further details):

- H1 Services incidental to fishing and aquaculture
- H2 Fish and seafood processing and packaging
- H3 Commercialization and distribution of fish and other marine products

## I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)

Maritime transport and related services are part of traditional and emerging services, as the industry is poised to embrace innovations to enhance performance and sustainability. The sector has also grown in importance. As mentioned previously, over 80 per cent of global trade is carried out at sea (UNCTAD, 2019a), which is the most cost-effective way to move goods and raw materials around the world.<sup>37</sup> For example, in the United States, maritime transport accounts for 95 per cent of the country’s foreign trade (National Ocean Policy Coalition, 2020).

The sector includes the transport of passengers and freights, as well as auxiliary services. The latter include a wide array of services such as shipbuilding, repair and maintenance of ships, boats and offshore supply vessels, as well as advanced sensing, communications, big data analytics applications for port facilities and maritime supply chains, technical services, inspection and survey, ship brokers and other freight transport agency services, wholesale and retail, labour supply services and others related to this activity.<sup>38</sup> Marine insurance and finance are other key services required by the sector.

The structure of the sector is based on information from reliable sources, such as the UNCTAD *Review of Maritime Transport 2019* (UNCTAD, 2019a), WTO documents used for trade negotiations (WTO, 1996 and 2010b) and WTO W/120 services classifications (WTO, 1991). It also benefited from advice provided by maritime transport and port experts from UNCTAD, the World Ports Sustainability Programme and WTO.

The industries are grouped into four subsectors, each of which is further disaggregated to enhance understanding of the sector and to facilitate value chain analysis and policy design. The sector excludes services specific to trade in fisheries that are not related to transport.

<sup>36</sup> See FAO, 2019b for an in-depth discussion on trade in fisheries services from a value chain and trade policy perspective.

<sup>37</sup> See UNCTAD, 2019a for trends.

<sup>38</sup> Description based OECD, 2016; United Nations, 2015; UNCTAD, 2019a; and WTO, 2010b.

The sector is divided into the following subsectors (see annex 2 for further details):

- I1 Passenger transportation
- I2 Freight transportation
- I3 Auxiliary services to maritime transport
- I4 Marine insurance and finance

#### **J. Port services, related infrastructure services and logistical services**

This sector deals with the operation and management of ports, such as storage, loading and unloading activities; security services; automation of cargo-handling services; and navigational services. The sector also includes construction and management activities designed for ports and the protection of coastlines from increasing coastal erosion and flooding due to changing sea levels.<sup>39</sup>

The structure of the sector is based on the UNCTAD *Review of Maritime Transport 2019* (UNCTAD, 2019a), the OECD International Transport Forum database of global port activities<sup>40</sup> and the International Association of Ports and Harbours database of member ports.<sup>41</sup> The structure also benefited from advice provided by maritime transport and port experts from UNCTAD and the World Ports Sustainability Programme.

The sector is divided into the following subsectors:

- J1 Port and harbour operations, including marine cargo handling
- J2 Information technology and other automated services for port facilities
- J3 Warehousing and storage
- J4 Navigational services on coastal and transoceanic waters
- J5 Marine-related engineering and construction

#### **K. Coastal and marine environmental services**

The sector includes environmental services that contribute to sustainable development by alleviating the negative impacts of economic activities (WTO, 2010c; WTO and UNEP, 2018). In the context of WTO, the sector is part of the environmental services sector, which includes various tradable services such as sewage services, refuse disposal, sanitation and similar services, reduction of vehicle emissions, noise abatement services, nature and landscape protection services and other environmental services, regardless of the geographical area where they are delivered. For the purposes of this classification, coastal and marine environmental services include tradable environmental activities that are performed on someone's behalf for a price and that have a direct impact on the coasts and the oceans or are undertaken and delivered on the coast and within the exclusive economic zones of States and on the high seas. As indicated in section 4.1, services provided by marine ecosystems per se (e.g. natural capital without human intervention)

<sup>39</sup> For more on ports, see <https://unctad.org/en/pages/newsdetails.aspx?OriginalVersionID=2162> (accessed 18 December 2020).

<sup>40</sup> See <https://stats.oecd.org/index.aspx?queryid=54693#> (accessed 18 December 2020).

<sup>41</sup> See <https://www.iaphworldports.org/data-base-of-iaph-member-ports> (accessed 18 December 2020).

are not part of the classification proposed here. Table 3 below presents examples of coastal and marine environmental services that are part of this classification; this builds on the modes of supply set out in the WTO General Agreement on Trade in Services.

The sector is divided into the following subsectors:

- K1 Sewage services
- K2 Waste treatment and disposal services located on the coast
- K3 Containment, control and monitoring services and other site remediation services NEC
- K4 Coastal and ocean habitat protection, preservation and restoration
- K5 Other environmental protection services NEC (includes marine environmental monitoring and resource management)

**Table 3 Examples of coastal and marine environmental services in the framework of the General Agreement on Trade in Services**

<i>Mode of supply</i>	<i>Definition</i>	<i>Example</i>
Mode 1: Cross-border trade	Services supplied from the territory of one Member into the territory of any other Member	A United States firm provides environmental consulting services (provision of blueprints of a new coastal protection system via the Internet) to a research centre in Barbados.
Mode 2: Consumption abroad	Services supplied in the territory of one Member to the service consumer of any other Member	A postgraduate Mauritius student enrolls in an environmental law programme at a university in Japan.
Mode 3: Commercial presence	Services supplied by a service supplier of one Member through commercial presence in the territory of any other Member	A Mozambique-based affiliate of a Brazilian water and wastewater treatment company provides its services to a luxury hotel on the east coast.
Mode 4: Presence of natural persons	Services supplied by a service supplier of one Member through the presence of natural persons of a Member in the territory of any other Member	A British national expert on monitoring and surveillance of marine wildlife is hired by a national park authority to travel to Vanuatu and provide advice on how to set up a new marine-protected area for a couple of months.

Source: UNCTAD, based on WTO, 2020a.

#### **L. Marine research and development and related services**

The sector includes activities relating to research and development in the fisheries sector and to aquaculture, industrial processes and manufacturing that are aimed at exploring alternative marine-renewable energy sources for bioprospecting, biotechnology, medical and pharmaceutical sciences and monitoring and surveillance systems. Education and training have also been included in the sector because the same research and development organizations, such as universities and research institutes, usually which provide training.

The research and development sector is the basis of sustainable ocean economies, whether for goods or services, as it is the source of innovations and development of clean technologies. Research and development can enable business opportunities while minimizing the impact on the ocean environment and marine resources (OECD,

2019a). Furthermore, it is relevant to Sustainable Development Goal 14, as science is essential in achieving global sustainability and adequate stewardship of the ocean.

The sector is divided into the following subsectors (see annex 2 for further details):

- L1 Research and development services and related educational services
- L2 Interdisciplinary research and development services relating to the environment, oceanography and the like
- L3 Technical testing and analysis services
- L4 Scientific and technical consulting services

## ■ Energy

### M. Ocean energy and renewable energy

The sector includes the production of ocean renewable energy, such as offshore wind energy, tidal energy and wave energy. With regard to other inputs (goods and services) required by the subsectors, only construction services of power plants have been included in the sector. Other inputs were not included because the existing international classifications do not allow their differentiation from other similar goods and services used in other sectors. These are, however, included in the classification under broader categories, for instance, under high-technology or research and development services, or even shipbuilding (e.g. wind parks in marine waters are part of shipbuilding since offshore wind parks are produced by shipbuilders).<sup>42</sup>

When more is known about suppliers for these industries, the sector can be reviewed. For the time being, it is not known whether suppliers produce exclusively for these ocean-based subsectors or what is the share or value of inputs used by renewable energies (only anecdotal information is available at this time).<sup>43</sup>

Subsectors are classified according to the type of source used for energy generation and include one subsector on power plant engineering. These are the only subsectors that include CPC codes (service) and HS codes (goods) in the proposed classification, as energy has the characteristics of both a good and a service.<sup>44</sup>

The sector is divided into the following subsectors:

- M1 Offshore wind energy
- M2 Tidal power
- M3 Wave power
- M4 Submarine geothermal energy
- M5 Chemical potential of seawater
- M6 Marine biomass-based biofuels
- M7 Power plants and projects

<sup>42</sup> OECD, 2016.

<sup>43</sup> A study carried out in 2012 found that while ball bearings were a critical component of wind-power projects, only a small part of the overall trade in ball bearings was driven by the deployment of wind technologies (UNEP, 2018).

<sup>44</sup> For more information on energy definitions, see WTO, 2020b.



## RECOMMENDATIONS FOR THE APPLICATION AND NEXT STEP OF THE OCEAN ECONOMY CLASSIFICATION

### 5.1 Using the classification

This classification can be used to meet a variety of closely linked objectives, as outlined below.

#### ■ Statistical analysis

The primary goal of this classification is to enhance the understanding of ocean-based economic sectors and address data scarcity that can often hamper the accurate assessment of such sectors. The classification will enable the collection of trade-related and other relevant statistics for the monitoring and analysis of ocean-based sectors, as a whole or by sector, at the national and global levels or from a supply or demand perspective.

Such data can serve a variety of stakeholders. For the private sector, this data can be used to enhance knowledge of ocean-based goods and services. The data can be used, for example, to identify production inputs and find niche markets, information that is important for business activities. Lack of data to evaluate the potential of ocean-based sectors has kept foreign investors at bay.<sup>45</sup> Data collected through the classification would help private sector firms make sound investment decisions and better integrate themselves in regional and global value chains to develop partnerships with peers across the globe. The classification would also provide a basis for facilitating a firm's assessments of market access in terms of taxes and duties for imports or exports, as well as for identifying the non-tariff measures that must be complied with when exporting or importing. So far, gathering such information has been demanding in terms of knowledge and resources.

In addition, the classification can help Governments gather reliable and up-to-date data to monitor progress toward the implementation of the Sustainable Development Goals and other international commitments. Availability of a detailed sector classification will enable Governments to study the economic potential, as well as the environmental and social impacts of the sectors, so as to devise policies and actions to enhance integrated ocean management and promote the achievement of the Sustainable Development Goals (by, for example, analysing sectors through the five pillars of sustainable ocean development described in chapter II).

<sup>45</sup> The lack of reliable data on ocean-based sectors is mentioned in investment studies focusing on ocean economies. See, for instance, O'Shea et al., 2019; and Whisnant and Vandeweerd, 2019.

Classification and data collection can also support government policy decisions on the allocation of resources and the study of trade-offs across economic sectors and policy design. For instance, Governments could move resources away from fisheries subsidies and allocate these to sustainable ocean-based sectors whose environmental and social benefits surpass the perceived gains of fisheries subsidies. The availability of adequate data on ocean-based sectors will also enable policymakers to design effective regulatory and institutional frameworks. Furthermore, it will allow them to draft and enforce sound economic instruments and strategies that could facilitate trade in goods and promote technological development and the availability of ancillary services needed for sustainable ocean-based sectors. Examples of such services are research and development, finance, insurance, communications, testing and certification, ports, logistics and services that could enhance goods and service value added (UNCTAD, 2019a).

For the international community, the classification will allow for evidence-based monitoring of progress towards international commitments, promote transparency and international collaboration and support decision-making at the national and global levels. For instance, Sustainable Development Goal 14 targets call for the enhancement of scientific research in ocean-based sectors. The indicator for measuring progress on this is government expenditure on scientific research. The classification also includes scientific and consultancy services and high-technology goods required for pursuing scientific research. The classification can facilitate the collection of data from the business part of those sectors so that a more accurate assessment can be made and evidence-based strategies devised. In terms of technical assistance, the classification can provide a basis for supporting developing countries in fully harnessing the opportunities presented by trade in ocean-based economies and to select goods and services where technical or financial support is needed. Data collected at the proposed level of detail can also help identify pathways to overcome cost and capability constraints for value addition in developing countries and for meeting the five pillars of sustainable ocean development.

### ■ International trade agreements

Trade policies can facilitate or hamper market creation and expansion. Trade policies enable countries to more efficiently produce goods or services, specialize in areas where comparative advantage exists and access technologies needed to improve their environmental performance (OECD, 2019a; UNEP, 2018).

The sustainable ocean economy classification can be used in trade policy negotiations of services, transports and environmental goods and services. The classification underpinning negotiations in those sectors dates back to the 1990s. These do not reflect the characteristics of these sectors in their current shape and form; neither do they account for present-day issues such as the degradation of ocean ecosystems. The classification provides a comprehensive and integrated approach to categorizing goods and services, which can serve as a starting point for comparing data across countries and enhance transparency of information so that countries can have more flexibility to accommodate concerns over sensitive products and industry competitiveness and in turn, strengthen trade negotiations.

The classification could be applied to support the monitoring of obligations arising from agreements. It could be applied to compare liberalization commitments, assess the extent of liberalization reached in specific sectors or markets and evaluate market-access opportunities for the purpose of trade negotiations. The classification, its definition and the data collected can also increase the engagement of developing countries in related trade negotiations when seeking to promote trade in ocean-based goods and services. It can also provide statistical background for the settlement of disputes on, for instance, issues regarding market access (e.g. tariff reduction), technical measures, intellectual property rights, environmental labelling, standards, unfair competition (e.g. certain fisheries subsidies), trade facilitation and government procurement.

### ■ Advocacy

Advocacy is a catalyst for enhancing sectoral and industry development. This classification can be used to raise awareness about ocean-based sectors, how they relate to each other and the importance of the sustainability of ocean ecosystems and the complementarity between the health of the oceans and economic aspirations. It can encourage cooperation between businesses, Governments and researchers in areas such as the development of the services sectors and technology transfers. It can also be the catalyst for the creation of associations that support the development of non-traditional ocean-based sectors.

An international sustainable ocean economy classification, used to collect data, can also help identify investment opportunities for the development of sectors and enhance integration in global value chains. The classification has been structured in a way that allows for comprehensive value chain analysis (goods and services) of the ocean-based sectors.

This classification can also facilitate the inclusion of new sectors in existing international classifications such as CPC and HS. It can also be instrumental in improving the collection of services data where significant gaps exist. In this manner, the classification can boost the development of ocean-based sectors, increasing value added and strengthening economies.

## 5.2 Moving forward

The current health of the oceans and the economies that depend on it is concerning. The only way forward is to enhance ocean management and sustainable investment, which will require policies and actions in different areas, including trade-related policies and strategies. This will be possible if data, the backbone of any decision, are available. Data on ocean economies are of paramount importance today. Establishing the framework and the definitions that will allow for the collection of this data would be a good starting point.

The benefits of an international classification such as the one proposed here, its relevance and comparability outweigh the costs in terms of changes that would be necessary to be made to the already existing international classifications and their operationalization.

The proposed sustainable ocean economy classification includes the main principles of the international classification of goods and services, especially with regard to relevance, international comparison and continuity. These have been important considerations for countries in adopting international classifications (United Nations, 2008, 2015). The sustainable ocean economy classification builds on existing international classifications and used existing ocean economy classifications for its development. More importantly perhaps, a parallel can be seen between codes used by countries' ocean economy classifications (based on ISIC) and the one proposed here (HS for goods and CPC for services). Furthermore, adding specific ocean-based goods and services to the CPC and HS classifications may be more a matter of awareness than of enforcement. For instance, traded products must comply with several regulations, including those that indicate product ingredients and use. This information is requested by government agencies and is not used solely for statistical purposes.

What is needed now is to consolidate the proposed classification with stakeholders from the private sector, policymakers, academia and the wider international community so as to make use of and adopt this version or any improvement thereof. This can be done in unison with the future HS revision to create specific six-digit HS codes for the ocean-based products concerned. Similarly, BPM6 and CPC classifications can be revised to differentiate ocean-based services from other services and create specific codes. The inclusion of ocean-based goods and services in the existing international classifications will ensure the success of the sustainable ocean economy classification.

Creating a platform for the consolidation of the proposed classification will also allow to enhance cooperation across economic actors, and thus move towards meeting Sustainable Development Goal 17 (partnerships). The Ocean Forum on the Trade-related Aspects of Sustainable Development Goal 14 led by the African, Caribbean and Pacific States; the Commonwealth Secretariat; the Economic Commission for Europe; FAO, UNCTAD, UNEP and the UNCTAD–FAO–UNEP Inter-Agency Joint Plan of Action could be suitable vehicles to enable further cooperation in this regard.

Furthermore, consolidating the classification of ocean-based services can be an important stepping stone towards the collection of services data, which is limited. This is of paramount importance in assessing countries' services sectors and conducting trade negotiations – not least for fisheries, maritime transport and environmental services. To begin with, for example, the international community could allocate resources for the collection of services data for developing countries, especially the least developed countries and small island developing States.

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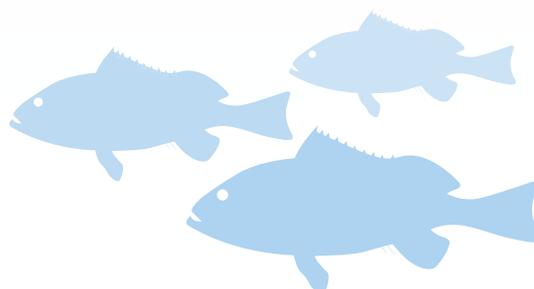
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# Annex 1

## Experts and of enterprises that contributed, or provided guidance in selecting codes of the Harmonized Commodity Description and Coding System and the United Nations Central Product Classification

Industry	Institution	Web	Expert
Aquaculture and fisheries equipment	a) FAO, Statistics and Information Branch, Fisheries and Aquaculture Department	<a href="http://www.fao.org/fisheries/en/">http://www.fao.org/fisheries/en/</a>	Marc Taconet
	b) SeaQuest Systems	<a href="http://www.seaquest.ie">www.seaquest.ie</a>	Brian Leslie
Fishing gear	Oliveira Sá I Wire Co World Group	<a href="http://www.oliveirasa.com">www.oliveirasa.com</a>   <a href="http://www.wirecworldgroup.com">www.wirecworldgroup.com</a>	João Campos
Biodiversity, biotechnology and blue Biotrade	UNEP (former Senior Officer)		Paolo Bifani
Environmental and transport services	WTO	<a href="http://www.wto.org">www.wto.org</a>	Marie Isabelle Pellan
High-technology and statistics	UNCTAD, Development Statistics and Information, Division on Globalization and Development Strategies	<a href="https://unctad.org/en/Pages/statistics.aspx">https://unctad.org/en/Pages/statistics.aspx</a>	Steve MacFeely
Marine pharmacology	a) Midwestern University, Department of Pharmacology	<a href="https://www.midwestern.edu/departments/marinepharmacology.xml">https://www.midwestern.edu/departments/marinepharmacology.xml</a>	Alejandro Mayer
	b) WTO	<a href="http://www.wto.org">www.wto.org</a>	Thomas Verbeet
Maritime transport	UNCTAD, Division on International Trade and Commodities	<a href="https://unctad.org/en/Pages/DITC/TNCD/Trade-Negotiations-and-Commercial-Diplomacy-.aspx">https://unctad.org/en/Pages/DITC/TNCD/Trade-Negotiations-and-Commercial-Diplomacy-.aspx</a>	Vincent Valentine
Maritime transport and ports	a) UNCTAD, Division on Technology and Logistics	<a href="https://unctad.org/en/Pages/DTL/TTL/Infrastructure-and-Services.aspx">https://unctad.org/en/Pages/DTL/TTL/Infrastructure-and-Services.aspx</a>	Hassiba Benamara
	b) World Ports Sustainability Programme	<a href="http://www.sustainableworldports.org">www.sustainableworldports.org</a>	Antonis Michail
Ocean industries	European Statistical Data Support – Central Support	<a href="http://ec.europa.eu/eurostat/help/support">http://ec.europa.eu/eurostat/help/support</a>	Margarida Domingues De Carvalho
Oil-spill-response equipment	Elastec – Keeping Our World Clean	<a href="http://www.elastec.com">www.elastec.com</a>	Stewart Ellis
Pumps, biogas, sewage equipment	LSM Pumps	<a href="http://www.lsmumps.com/">http://www.lsmumps.com/</a>	Pia Mølgaard
Trade in fisheries services	FAO, Subcommittee on Fish Trade; Products, Trade and Marketing Branch	<a href="http://www.fao.org/fisheries/en/">http://www.fao.org/fisheries/en/</a>	Marcio Castro de Souza

## Annex 2

### UNCTAD classification of sustainable ocean-based economies by sectors and subsectors (2020)

#### I. GOODS

##### A. Marine fisheries



###### A1 Finfish

A11 Live, but not ornamental

A12 Fresh or chilled

A121 Whole

A122 Parts, gilled, gutted, heads off, etc.

A123 Fillet, meat

A13 Frozen

A131 Whole

A132 Parts, gilled, gutted, heads off, etc.

A133 Fillet, meat

A14 Dried, salted and or in brine, smoked

A141 Whole

A142 Fillet, meat

A143 Parts, gilled, gutted, heads off, etc.

###### A2 Crustaceans

A21 Live (not including ornamental), fresh or chilled

A22 Frozen

A23 Dried, salted, smoked or in brine

###### A3 Molluscs

A31 Live (not including ornamental), fresh or chilled

A32 Frozen

A33 Dried, salted, smoked or in brine

###### A4 Aquatic invertebrates other than crustaceans

A41 Live (not including ornamental), fresh or chilled

A42 Frozen

A43 Dried, salted, smoked or in brine

A44 Primary preparations of snails, jellyfish and other aquatic invertebrates NEC

###### A5 Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)

A51 Aquatic plants, seaweed and other algae

A52 Natural pearls and sponges

A53 Corals and ornamental fish (excludes freshwater ornamental fish)

##### B. Aquaculture and hatcheries\*



###### B1 Living marine animals

B11 Marine fishes

B12 Crustaceans

B13 Molluscs

B14 Miscellaneous aquatic animals

###### B2 Other living marine products

B21 Aquatic plants, seaweed and other algae

B22 Cultured pearls

### C. Seafood processing



C1 Prepared and preserved fish, crustaceans and molluscs

C11 Marine fishes

C12 Crustaceans

C13 Molluscs

C14 Miscellaneous aquatic animals

C2 Flours, meals and pellets of fish or crustaceans, molluscs or other aquatic invertebrates

C21 For human consumption

C22 Unfit for human consumption

C3 Fats and oils of fish or marine mammals (refined or not)

C4 Processed meals and dishes

### D. Sea minerals



D1 Sea salt

D2 Natural sea sand

### E. Ships, port equipment and parts thereof



E1 Vessels

E11 Fishing vessels

E12 Transport vessels and floating structures for commercial marine logistics

E13 Pleasure and sporting boats

E2 Parts of vessels and inputs supporting navigation and ports

E21 Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)

E22 Navigation aids, communications and information technology systems appliances and equipment for maritime transport and ports

E23 Parts of vessels and other inputs NEC, specific to maritime transport and ports

### F. High-technology and other manufactures not elsewhere classified



F1 Manufactures for the fishing and aquaculture industries, excludes vessels and parts thereof

F11 Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof

F12 Manufacture of products and technologies for aquaculture

F2 High-technology manufactures for environment sustainability and clean energy

F21 Technologies for wastewater management, water treatment and clean-up or remediation

F22 Cleaner and renewable energy technologies

F3 Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry

F31 Medicines (pharmaceuticals)

F32 Vitamins and food supplements

F33 Supply and equipment of the marine pharmaceutical or chemical industry

F34 Cosmetics

F4 Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials

F5 Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries NEC, part of the ocean economy)

\* Production only.

## II. SERVICES

### G. Marine and coastal tourism

- G1 Hotels and restaurants (includes catering)
  - G11 Hotels and other accommodation
  - G12 Food and beverage service activities (eating and drinking places)
- G2 Travel agencies and tour operator services
- G3 Tourist guide services
- G4 Recreational and other services
  - G41 Marinas
  - G42 Oceanarium and other ecologically preserved attractions
  - G43 Recreational, sport and other related services

### H. Trade in fisheries services

- H1 Services incidental to fishing and aquaculture
  - H12 Fishing
  - H13 Aquaculture
  - H14 Other services incidental to fishing and aquaculture
- H2 Fish and seafood processing and packaging
- H3 Commercialization and distribution of fish and other marine products
  - H31 Wholesale of fish and seafood
  - H32 Retail sale of fish and seafood

### I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)

- I1 Passenger transportation
  - I11 Cruise ships and related services
  - I12 Rental of vessels or chartering for leisure, passenger vessels (with and without crew)
  - I12 Other coastal and transoceanic water transport services
- I2 Freight transportation
  - I21 Coastal and transoceanic freight transportation
  - I22 Rental of vessels/chartering, freight and other vessels NEC (with or without crew)
- I3 Auxiliary services to maritime transport
  - I31 Shipbuilding
  - I32 Maintenance, repair and dismantling services
    - I321 Maintenance and repair of vessels
    - I322 Dismantling of vessels
    - I333 Maintenance and repair of machines, equipment and hardware
  - I33 Inspection and survey
  - I34 Shipbrokers and other freight transport agency services
  - I35 Wholesale and retail services for maritime activities
  - I36 Advanced sensing, communications and data management services
  - I37 Other services NEC (labour supply services and training not including post-secondary and university levels, etc.)
- I4 Marine insurance and finance

**J. Port services, related infrastructure services and logistical services**

- J1 Port and harbour operations, including marine cargo handling
- J2 Information technology and other automated services for port facilities
- J3 Warehousing and storage
- J4 Navigational services on coastal and transoceanic waters
- J5 Marine-related engineering and construction

**K. Coastal and marine environmental services**

- K1 Sewage services
- K2 Waste treatment and disposal services located on the coast
- K3 Containment, control and monitoring services and other site-remediation services NEC
- K4 Coastal and ocean habitat protection, preservation and restoration
- K5 Other environmental protection services NEC (includes marine environmental monitoring and resource management)

**L. Marine research and development and related services**

- L1 Research and development services and related educational services
  - L12 Research and development services for the fisheries sector and aquaculture
  - L13 Research and development services for industrial processes and manufacturing
  - L14 Research and development services in biotechnology, medical sciences and pharmacy
  - L15 Education on marine-related disciplines
- L2 Interdisciplinary research and development services relating to the environment, oceanography and the like
- L3 Technical testing and analysis services
- L4 Scientific and technical consulting services

**III. ENERGY****M. Ocean energy and renewable energy**

- M1 Offshore wind energy
- M2 Tidal power
- M3 Wave power
- M4 Submarine geothermal energy
- M5 Chemical potential of seawater
- M6 Marine biomass-based biofuels
- M7 Power plants and projects

# Annex 3

## Classification of sustainable ocean-based economies by sectors, subsectors and goods and services codes of existing international classifications

SECTION: GOODS											
Sector	Subsector	Sust. Oceans Economy Codes (SOE codes)			Other SOE codes in which a HS17 may be used	Harmonized System					
		Level 1 (2nd digit OE code)	Level 2 (3rd digit OE code)	Level 3 (4th digit OE code)		HS17 6-digit	HS17 description	HS17 detailed description	Relevance & source. Detailed description		
<b>A. Marine fisheries</b>											
A. Marine fisheries	Finfish		Live, but not ornamental		A11		030191	Live trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aquabonita, Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus chrysogaster"			
A. Marine fisheries	Finfish		Live, but not ornamental		A11		030192	Live eels "Anguilla spp."			
A. Marine fisheries	Finfish		Live, but not ornamental		A11	B11	030194	Live Atlantic and Pacific bluefin tuna (Thunnus thynnus, Thunnus orientalis)			
A. Marine fisheries	Finfish		Live, but not ornamental		A11		030195	Live southern bluefin tunas "Thunnus maccoyii"			
A. Marine fisheries	Finfish		Live, but not ornamental		A11		030199	Live fish (excl. ornamental fish, trout [Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aquabonita, Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus chrysogaster], eels [Anguilla spp.], carp [Cyprinus spp., Carassius spp., Ctenopharyngodon idellus, Hypophthalmichthys spp., Cirrhinus spp., Mylopharyngodon piceus, Carila catla, Labeo spp., Osteochilus hasselti, Leptobarbus hoeveni, Megalobrama spp.], Atlantic and Pacific bluefin tuna [Thunnus thynnus, Thunnus orientalis] and southern bluefin tuna [Thunnus maccoyii])			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121	B11	030221	Greenland, Atlantic and Pacific halibut, fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030222	Plaice (Pleuronectes platessa), fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030223	Sole (Solea spp.), fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030224	Turbot (Psetta maxima), fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030229	Other flatfish, fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030231	Albacore or longfinned tuna (Thunnus alalunga), fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030232	Yellowfin tunas (Thunnus albacares), fresh or chilled			
A. Marine fisheries	Finfish		Fresh or chilled	Whole	A121		030233	Skipjack or stripe-bellied bonito, fresh or chilled			

A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030234	Bigeye tuna, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030235	Bluefin tuna ( <i>Thunnus thynnus</i> , <i>Thunnus orientalis</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030236	Fresh or chilled Southern bluefin tuna ( <i>Thunnus maccoyii</i> )		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030239	Other tunas, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030241	Herrings ( <i>Clupea harengus</i> , <i>Clupea pallasii</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030242	Anchovies ( <i>Engraulis</i> spp.), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030243	Sardines, sardinellas, brising or sprats, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030244	Mackerel, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030245	Jack and horse mackerel ( <i>Trachurus</i> spp.), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030246	Cobia ( <i>Rachycentron canadum</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030247	Swordfish ( <i>Xiphias gladius</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030249	Indian mackerels, seerfishes, jacks, crevalles, silver pomfrets, Pacific saury, scads, capelin, Kawakawa, bonitos, marlins, sailfishes, spearfish, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030251	Cod ( <i>Gadus morhua</i> , <i>Gadus ogac</i> , <i>Gadus macrocephalus</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030252	Haddock ( <i>Melanogrammus aeglefinus</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030253	Coalfish(=Saithe), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030254	Hake ( <i>Merluccius</i> spp., <i>Urophycis</i> spp.), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030255	Alaska Pollock ( <i>Theragra chalcogramma</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030256	Blue whittings ( <i>Micromesistius putassou</i> , <i>Micromesistius australis</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030259	Other Gadiformes, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030281	Dogfish and other sharks, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030282	Rays and skates ( <i>Rajidae</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030283	Toothfish ( <i>Disostichus</i> spp.), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030213	Fresh or chilled Pacific salmon "Oncorhynchus nerka, <i>Oncorhynchus gorbuscha</i> , <i>Oncorhynchus keta</i> , <i>Oncorhynchus tshawytscha</i> , <i>Oncorhynchus kisutch</i> , <i>Oncorhynchus masou</i> and <i>Oncorhynchus rhodurus</i> "	Diadromus	
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030214	Fresh or chilled Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	Diadromus	
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030219	Fresh or chilled salmonidae (excl. trout "Salmo trutta, <i>Oncorhynchus mykiss</i> , <i>Oncorhynchus clarki</i> , <i>Oncorhynchus aguabonita</i> , <i>Oncorhynchus gilae</i> , <i>Oncorhynchus apache</i> and <i>Oncorhynchus chrysogaster</i> ", Pacific salmon "Oncorhynchus nerka, <i>Oncorhynchus gorbuscha</i> , <i>Oncorhynchus keta</i> , <i>Oncorhynchus tshawytscha</i> , <i>Oncorhynchus kisutch</i> , <i>Oncorhynchus masou</i> and <i>Oncorhynchus rhodurus</i> ", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho")	Diadromus	
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030284	Seabass ( <i>Dicentrarchus</i> spp.), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030285	Seabream ( <i>Sparidae</i> ), fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121	B11	030289	Other freshwater or saltwater fish, fresh or chilled		
A. Marine fisheries	Finfish	Fresh or chilled	Whole	A121		030292	Shark fins, fresh or chilled		

A. Marine fisheries	Finfish	Fresh or chilled	Parts, gilled, gutted, heads off, etc	A122		030291	Livers, roes, milt, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Parts, gilled, gutted, heads off, etc	A122		030299	Fresh or chilled fish fins, heads, tails, maws and other edible fish offal (excl. livers, roes, milt and shark fins)	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123	B11	030441	Fresh or chilled filets of Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030443	Flat fish, filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030444	Gadiformes, filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030445	Swordfish (Xiphias gladius), filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030446	Toothfish (Dissostichus spp.), filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030447	Dogfish (Squalidae) and other sharks, filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030448	Rays and skates (Rajidae) filets, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030449	Fish filets, fresh or chilled, nei	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030452	Fresh or chilled meat, whether or not minced, of salmonidae (excl. filets)	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030453	Gadiformes, meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030454	Swordfish (Xiphias gladius) meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030455	Toothfish (Dissostichus spp.), meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030456	Dogfish (Squalidae) and other sharks, meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030457	Rays and skates (Rajidae) meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123	B11	030442	Fresh or chilled filets of trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus agabombia, Oncorhynchus glee, Oncorhynchus apache and Oncorhynchus chrysogaster"	Diadromus
A. Marine fisheries	Finfish	Fresh or chilled	Filet, meat	A123		030459	Other fish meat, minced or not, fresh or chilled	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030331	Greenland, Atlantic and Pacific halibut, frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030332	Plaice (Pleuronectes platessa), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030333	Sole (Solea spp.), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030334	Turbot (Psetta maxima), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030339	Other flatfish, frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030341	Albacore or longfinned tunas (Thunnus alalunga), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030342	Yellowfin tunas (Thunnus albacares), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030343	Skipjack or stripe-bellied bonito, frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030344	Bigeeye tuna, frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030345	Bluefin tuna (Thunnus thynnus, Thunnus orientalis), frozen	
A. Marine fisheries	Finfish	Frozen	Whole	A131		030346	Southern bluefin tuna (Thunnus maccoyii), frozen	

A. Marine fisheries	Frozen	Whole	A131				Other tunas, frozen		
A. Marine fisheries	Frozen	Whole	A131				Herrings ( <i>Clupea</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Sardines, sardinella, brising or sprats, frozen		
A. Marine fisheries	Frozen	Whole	A131				Mackerel, frozen		
A. Marine fisheries	Frozen	Whole	A131				Jack and horse mackerel ( <i>Trachurus</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Cobia ( <i>Rachycentron canadum</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131				Swordfish ( <i>Xiphus gladius</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131				Anchovies, indian mackerels, seerfishes, jacks, crevalles, silver pomfrets, Pacific saury, scads, capelin, kawakawa, bonitos, marlins, sailfishes, spearfish, frozen		
A. Marine fisheries	Frozen	Whole	A131				Cod ( <i>Gadus</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Haddock ( <i>Melanogrammus aeglefinus</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131				Coalfish (=Saithe), frozen		
A. Marine fisheries	Frozen	Whole	A131				Hake ( <i>Merluccius</i> spp., <i>Urophycis</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Alaska Pollock ( <i>Theragra chalcogramma</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131				Blue whittings ( <i>Micromesistius poutassou</i> , <i>Micromesistius australis</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131				Other Gadiformes, frozen		
A. Marine fisheries	Frozen	Whole	A131				Dogfish and other sharks, frozen		
A. Marine fisheries	Frozen	Whole	A131				Reys and skates ( <i>Rejidae</i> ), frozen		
A. Marine fisheries	Frozen	Whole	A131	B11			Frozen Pacific salmon (excl. sockeye salmon "red salmon")	Diadromus	
A. Marine fisheries	Frozen	Whole	A131	B11			Frozen, Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	Diadromus	
A. Marine fisheries	Frozen	Whole	A131	B11			Frozen trout "Salmo trutta, <i>Oncorhynchus mykiss</i> , <i>Oncorhynchus clarki</i> , <i>aguabonita</i> , <i>Oncorhynchus gila</i> , <i>Oncorhynchus apache</i> and <i>Oncorhynchus chrysogaster</i> "	Diadromus	
A. Marine fisheries	Frozen	Whole	A131	B11			Frozen salmonidae (excl. trout and Pacific, Atlantic and Danube salmon)	Diadromus	
A. Marine fisheries	Frozen	Whole	A131				Toothfish ( <i>Disostichus</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Seabass ( <i>Dicentrarchus</i> spp.), frozen		
A. Marine fisheries	Frozen	Whole	A131				Other freshwater and saltwater fish, frozen		
A. Marine fisheries	Frozen	Whole	A131				Shark fins, frozen		
A. Marine fisheries	Frozen	Parts, gilled, gutted, heads off, etc	A132				Livers, roes, milt, frozen		
A. Marine fisheries	Frozen	Parts, gilled, gutted, heads off, etc	A132				Fish heads, tails, maws, tongues, frozen		
A. Marine fisheries	Frozen	Filet, meat, portions and sticks	A133				Cod, filets, frozen		
A. Marine fisheries	Frozen	Filet, meat, portions and sticks	A133				Haddock ( <i>Melanogrammus aeglefinus</i> ) filets, frozen		

A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030473	Coalfish(=Saithe), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030474	Hake ( <i>Merluccius</i> spp., <i>Urophycis</i> spp.), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030475	Alaska Pollock ( <i>Theragra chalcogramma</i> ), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030479	Gadiformes filets (excl. cod, haddock, coalfish/saithe, hake, Alaska pollock), frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030483	Flat fish, filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030484	Swordfish ( <i>Xiphias gladius</i> ), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030485	Toothfish ( <i>Dissostichus</i> spp.), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030486	Herrings ( <i>Clupea harengus</i> , <i>Clupea pallasii</i> ), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030487	Tunas, skipjack or stripe-bellied bonito, filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030488	Dogfish, other sharks, rays and skates ( <i>Rajidae</i> ), filets, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030489	Fish filets, frozen, nei	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030491	Swordfish ( <i>Xiphias gladius</i> ) meat, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030492	Toothfish ( <i>Dissostichus</i> spp.) meat, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030494	Alaska Pollock ( <i>Theragra chalcogramma</i> ) meat, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	030495	Meat of Gadiformes (excl. Alaska Pollock), frozen	

A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133		030496	Dogfish (Squalidae) and other sharks, meat, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133		030497	Rays and skates (Rajidae) meat, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133		030499	Fish meat, whether or not minced, frozen	
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	B11	030481	Frozen filets of Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbushcha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	Diadromus
A. Marine fisheries	Finfish	Frozen	Filet, meat, portions and sticks	A133	B11	030482	Frozen filets of trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aquabonita, Oncorhynchus glae, Oncorhynchus apache and Oncorhynchus chrysogaster"	Diadromus
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030551	Dried cod (Gadus spp.), whether or not salted but not smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030553	Dried gadiformes, whether or not salted, but not smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030554	Dried herring, anchovy, sardine, sardinella, brising/sprat, mackerel, Indian mackerel, seerfish, jack&horse mackerel, jack, crevalle, cobia, silver pomfret, Pacific saury, scad, capelin, swordfish, Kawakawa, bonito etc	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030559	Other fish, dried, whether or not salted but not smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030561	Herrings, salted or in brine	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030562	Cod (Gadus spp.), salted or in brine	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030563	Anchovies, salted or in brine	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030569	Other fish, salted or in brine	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Whole	A141		030571	Shark fins, dried, salted or in brine	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Filet, meat	A142		030532	Gadiformes filets, dried, salted or in brine, not smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Filet, meat	A142		030539	Other fish filets, dried, salted or in brine, not smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Filet, meat	A142		030542	Herrings, including filets, smoked	
A. Marine fisheries	Finfish	Dried, salted and or in brine, smoked	Filet, meat	A142		030549	Other fish, including filets, smoked	

A. Marine fisheries	Fish	Dried, salted and or in brine, smoked	Fillet, meat	A142	B11	030541	Smoked Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho", incl. filets (excl. offal)	Diadromus
A. Marine fisheries	Fish	Dried, salted and or in brine, smoked	Fillet, meat	A142	B11	030543	Smoked trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aquabonita, Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus chrysogaster", incl. filets (excl. offal)	Diadromus
A. Marine fisheries	Fish	Dried, salted and or in brine, smoked	Parts, gilled, gutted, heads off, etc	A143		030520	Fish livers and roes, dried, salted or in brine, smoked	
A. Marine fisheries	Fish	Dried, salted and or in brine, smoked	Parts, gilled, gutted, heads off, etc	A143		030572	Fish heads, tails and maws, dried, salted or in brine, smoked	
A. Marine fisheries	Fish	Dried, salted and or in brine, smoked	Parts, gilled, gutted, heads off, etc	A143		030579	Other edible fish offal, dried, salted or in brine	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030631	Rock lobster and other sea crawfish "Palinurus spp., Palinurus spp. and Jasus spp.", whether in shell or not, live, fresh or chilled	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030632	Lobsters "Homarus spp.", whether in shell or not, live, fresh or chilled	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030633	Crabs, whether in shell or not, live, fresh or chilled	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030634	Norway lobsters "Nephrops norvegicus", whether in shell or not, live, fresh or chilled	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030635	Cold-water shrimps and prawns "Pandalus spp., Crangon crangon", whether in shell or not, live, fresh or chilled	
A. Marine fisheries	Crustacean	Live (not including ornamental), fresh or chilled		A21		030636	Shrimps and prawns, whether in shell or not, live, fresh or chilled (excl. cold-water shrimps and prawns "Pandalus spp., Crangon crangon")	
A. Marine fisheries	Crustacean	Frozen		A22	B12	030611	Frozen rock lobster and other sea crawfish "Palinurus spp.", "Panulirus spp." and "Jasus spp.", even smoked, whether in shell or not, incl. rock lobster and other sea crawfish in shell, cooked by steaming or by boiling in water	
A. Marine fisheries	Crustacean	Frozen		A22		030612	Frozen lobsters "Homarus spp.", even smoked, whether in shell or not, incl. lobsters in shell, cooked by steaming or by boiling in water	
A. Marine fisheries	Crustacean	Frozen		A22	B12	030614	Frozen crabs, even smoked, whether in shell or not, incl. crabs in shell, cooked by steaming or by boiling in water	
A. Marine fisheries	Crustacean	Frozen		A22		030615	Frozen Norway lobsters "Nephrops norvegicus", even smoked, whether in shell or not, incl. lobsters in shell, cooked by steaming or by boiling in water	
A. Marine fisheries	Crustacean	Frozen		A22	B12	030616	Frozen cold-water shrimps and prawns "Pandalus spp., Crangon crangon", even smoked, whether in shell or not, incl. shrimps and prawns in shell, cooked by steaming or by boiling in water	

A. Marine fisheries	Crustacean	Frozen	A22	B12	030617	Frozen shrimps and prawns, even smoked, whether in shell or not, incl. shrimps and prawns in shell, cooked by steaming or by boiling in water (excl. cold-water shrimps and prawns)
A. Marine fisheries	Crustacean	Dried, salted, smoked or in brine	A23		030691	Rock lobster and other sea crawfish "Palinurus spp., Panulirus spp. and Jasus spp.", whether in shell or not, dried, salted, smoked or in brine, incl. in shell, cooked by steaming or by boiling in water
A. Marine fisheries	Crustacean	Dried, salted, smoked or in brine	A23		030692	Lobsters "Homarus spp.", whether in shell or not, dried, salted, smoked or in brine, incl. lobsters in shell, cooked by steaming or by boiling in water
A. Marine fisheries	Crustacean	Dried, salted, smoked or in brine	A23		030693	Crabs, whether in shell or not, dried, salted, smoked or in brine, incl. crabs in shell, cooked by steaming or by boiling in water
A. Marine fisheries	Crustacean	Dried, salted, smoked or in brine	A23		030694	Norway lobsters "Nephrops norvegicus", whether in shell or not, dried, salted, smoked or in brine, incl. lobsters in shell, cooked by steaming or by boiling in water
A. Marine fisheries	Crustacean	Dried, salted, smoked or in brine	A23		030695	Shrimps and prawns, whether in shell or not, dried, salted, smoked or in brine, incl. ones in shell, cooked by steaming or by boiling in water
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030711	Oysters, even in shell, live, fresh or chilled
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030721	Live, fresh or chilled, scallops, incl. queen scallops, of the genera Pecten, Chlamys or Placopecten, even in shell
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030731	Live, fresh or chilled, not smoked, mussels "Mytilus spp., Perna spp.", with or without shell
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030742	Cuttle fish and squid, live, fresh or chilled, with or without shell
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31		030751	Octopus "Octopus spp.", live, fresh or chilled
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030771	Live, fresh or chilled, even in shell, clams, cockles and ark shells "families Arctidae, Arctidae, Cardidae, Donacidae, Hiatellidae, Macridae, Mesodesmatidae, Myidae, Semelidae, Solecurtidae, Solemidae, Tridacnidae and Veneridae"
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030781	Live, fresh or chilled, even in shell, abalone "Haliotis spp."
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31		030782	Live, fresh or chilled, even in shell, stromboid conchs "Strombus spp."
A. Marine fisheries	Molluscs	Live (not including ornamental), fresh or chilled	A31	B13	030791	Live, fresh or chilled molluscs, even in shell (excl. oysters, scallops of the genera and squid, octopus "Octopus spp.", snails other than sea snails, clams, cockles and ark shells, abalone and stromboid conchs)
A. Marine fisheries	Molluscs	Frozen	A32		030712	Oysters, even in shell, frozen
A. Marine fisheries	Molluscs	Frozen	A32		030722	Scallops, incl. queen scallops, of the genera Pecten, Chlamys or Placopecten, frozen, even in shell

A. Marine fisheries	Molluscs	Frozen	A32	030732	Mussels "Mytilus spp., Perna spp.", frozen, even in shell
A. Marine fisheries	Molluscs	Frozen	A32	030743	Cuttle fish and squid, frozen, with or without shell
A. Marine fisheries	Molluscs	Frozen	A32	030752	Octopus "Octopus spp.", frozen
A. Marine fisheries	Molluscs	Frozen	A32	030772	Frozen, even in shell, clams, cockles and ark shells "families Arcidae, Arctidae, Cardidae, Donacidae, Hiatellidae, Macridae, Mesodesmatidae, Myridae, Semelidae, Solecurtidae, Solenidae, Tridacnidae and Veneridae"
A. Marine fisheries	Molluscs	Frozen	A32	030783	Frozen, even in shell, abalone "Haliotis spp."
A. Marine fisheries	Molluscs	Frozen	A32	030784	Frozen, even in shell, stromboid conchs "Strombus spp."
A. Marine fisheries	Molluscs	Frozen	A32	030792	Molluscs, even in shell, frozen (excl. oysters, scallops of the genera Pecten, Chlamys or Placopecten, mussels "Mytilus spp., Perna spp.", cuttle fish and squid, octopus "Octopus spp.", snails other than sea snails, clams, cockles and ark shells, abalone and stromboid conchs)
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030719	Oysters, even in shell, smoked, dried, salted or in brine
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030729	Scallops, incl. queen scallops, of the genera Pecten, Chlamys or Placopecten, smoked, dried, salted or in brine, even in shell
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030739	Mussels "Mytilus spp., Perna spp.", smoked, dried, salted or in brine, even in shell
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030749	Cuttle fish and squid, smoked, dried, salted or in brine, with or without shell
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030759	Octopus "Octopus spp.", smoked, dried, salted or in brine
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030779	Smoked, dried, salted or in brine, even in shell, clams, cockles and ark shells "families Arcidae, Arctidae, Cardidae, Donacidae, Hiatellidae, Macridae, Mesodesmatidae, Myridae, Semelidae, Solecurtidae, Solenidae, Tridacnidae and Veneridae"
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030787	Smoked, dried, salted or in brine, even in shell, abalone "Haliotis spp."
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030788	Smoked, dried, salted or in brine, even in shell, stromboid conchs "Strombus spp."
A. Marine fisheries	Molluscs	Dried, salted, smoked or in brine	A33	030799	Molluscs, even in shell, smoked, dried, salted or in brine (excl. oysters, scallops of the genera Pecten, Chlamys or Placopecten, mussels "Mytilus spp., Perna spp.", cuttle fish and squid, octopus "Octopus spp.", snails other than sea snails, clams, cockles and ark shells, abalone and stromboid conchs)
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Live (not including ornamental), fresh or chilled	A41	030811	Live, fresh or chilled, sea cucumbers "Stichopus japonicus, Holothuroidea"
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Live (not including ornamental), fresh or chilled	A41	030821	Live, fresh or chilled, sea urchins "Strongylocentrotus spp., Paracentrotus lividus, Loxechinus albus, Echinus esculentus"
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Frozen	A42	030812	Frozen sea cucumbers "Stichopus japonicus, Holothuroidea"
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Frozen	A42	030822	Frozen sea urchins "Strongylocentrotus spp., Paracentrotus lividus, Loxechinus albus, Echinus esculentus"

A. Marine fisheries	Aquatic invertebrates other than crustaceans	Dried, salted, smoked or in brine	A43	030819	Smoked, dried, salted or in brine, sea cucumbers "Stichopus japonicus, Holothuridae"		
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Dried, salted, smoked or in brine	A43	030829	Smoked, dried, salted or in brine, sea urchins "Strongylocentrotus spp., Paracentrotus lividus, Loxechinus albus, Echinus esculentus"		
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Primary preparations of snails, jellyfish and other aquatic invertebrates n.e.c.	A44	030760	Snails, live, fresh, chilled, frozen, salted, dried or in brine, even smoked, with or without shell (excl. sea snails)		
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Primary preparations of snails, jellyfish and other aquatic invertebrates n.e.c.	A44	030830	Live, fresh, chilled, frozen, dried, salted or in brine, even smoked, jellyfish "Rhopilema spp."		
A. Marine fisheries	Aquatic invertebrates other than crustaceans	Primary preparations of snails, jellyfish and other aquatic invertebrates n.e.c.	A44	030890	Live, fresh, chilled, frozen, dried, salted or in brine, even smoked, aquatic invertebrates (excl. crustaceans, molluscs, sea cucumbers, sea urchins and jellyfish)		
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Aquatic plants, seaweeds and other algae	A51	121221	Seaweeds and other algae, fit for human consumption		
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Aquatic plants, seaweeds and other algae	A51	121229	Seaweeds and other algae, unfit for human consumption		
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Natural pearls and sponges	A52	051199	Other animal products not elsewhere specified or included	Natural sponges	FAO classification
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Natural pearls and sponges	A52	710110	Natural pearls, mother-of-pearl, shells		
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Coral and ornamental-fish (excludes freshwater ornamental fish)	A53	050800	Coral and similar material, unworked or simply prepared		
A. Marine fisheries	Other living marine products (excludes fish, crustacean, molluscs and aquatic invertebrates)	Coral and ornamental-fish (excludes freshwater ornamental fish)	A53	030119	Live ornamental fish (excl. freshwater)		

B. Aquaculture and hatcheries									
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030289	Fresh or chilled fish, n.e.s.	Shad, Milkfish	FAO classification
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A123	030441	Fresh or chilled filets of Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A11	030194	Live Atlantic and Pacific bluefin tuna ( <i>Thunnus thynnus</i> , <i>Thunnus orientalis</i> )		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030221	Fresh or chilled lesser or Greenland halibut "Reinhardtius hippoglossoides, Atlantic halibut "Hippoglossus hippoglossus" and Pacific halibut "Hippoglossus stenolepis"		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030244	Fresh or chilled mackerel "Scomber scombrus, Scomber australasicus, Scomber japonicus"		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030251	Fresh or chilled cod "Gadus morhua, Gadus ogac, Gadus macrocephalus"		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030283	Fresh or chilled toothfish "Disostichus spp."		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030284	Fresh or chilled sea bass "Dicentrarchus spp."		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A53	030119	Live ornamental fish (excl. freshwater)		
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030213	Fresh or chilled Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus"	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030214	Fresh or chilled Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A121	030219	Fresh or chilled salmonidae (excl. trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguabonita, Oncorhynchus glae, Oncorhynchus apache and Oncorhynchus chrysogaster", Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho")	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A123	030442	Fresh or chilled filets of trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguabonita, Oncorhynchus glae, Oncorhynchus apache and Oncorhynchus chrysogaster"	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A131	030312	Frozen Pacific salmon (excl. sockeye salmon "red salmon")	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A131	030313	Frozen, Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho"	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A131	030314	Frozen trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguabonita, Oncorhynchus glae, Oncorhynchus apache and Oncorhynchus chrysogaster"	Diadromus	
B. Aquaculture and hatcheries	Marine living animals	Marine fishes		B11	A131	030319	Frozen salmonidae (excl. trout and Pacific, Atlantic and Danube salmon)	Diadromus	

B. Aquaculture and hatcheries	Marine living animals	Marine fishes	B11	A133	030481	Frozen filets of Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbusha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar", and Danube salmon "Hucho hucho"	Diadromus
B. Aquaculture and hatcheries	Marine living animals	Marine fishes	B11	A133	030482	Frozen filets of trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguabonita, Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus chrysogaster"	Diadromus
B. Aquaculture and hatcheries	Marine living animals	Marine fishes	B11	A142	030541	Smoked Pacific salmon "Oncorhynchus nerka, Oncorhynchus gorbusha, Oncorhynchus keta, Oncorhynchus tshawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Oncorhynchus rhodurus", Atlantic salmon "Salmo salar" and Danube salmon "Hucho hucho", incl. filets (excl. offal)	Diadromus
B. Aquaculture and hatcheries	Marine living animals	Marine fishes	B11	A142	030543	Smoked trout "Salmo trutta, Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguabonita, Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus chrysogaster", incl. filets (excl. offal)	Diadromus
B. Aquaculture and hatcheries	Marine living animals	Crustaceans	B12	A22	030611	Frozen rock lobster and other sea crawfish "Palinurus spp.", "Panulirus spp." and "Jasus spp.", even smoked, whether in shell or not, incl. rock lobster and other sea crawfish in shell, cooked by steaming or by boiling in water	
B. Aquaculture and hatcheries	Marine living animals	Crustaceans	B12	A22	030614	Frozen crabs, even smoked, whether in shell or not, incl. crabs in shell, cooked by steaming or by boiling in water	
B. Aquaculture and hatcheries	Marine living animals	Crustaceans	B12	A22	030616	Frozen cold-water shrimps and prawns "Pandalus spp., Crangon crangon", even smoked, whether in shell or not, incl. shrimps and prawns in shell, cooked by steaming or by boiling in water	
B. Aquaculture and hatcheries	Marine living animals	Crustaceans	B12	C21	030619	Frozen crustaceans, even smoked, fit for human consumption, whether in shell or not, incl. crustaceans in shell, cooked beforehand by steaming or by boiling in water (excl. rock lobster and other sea crawfish, lobsters, crabs, Norway lobsters, shrimps and prawns)	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030711	Oysters, even in shell, live, fresh or chilled	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030721	Live, fresh or chilled, scallops, incl. queen scallops, of the genera Pecten, Chlamys or Placopecten, even in shell	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030731	Live, fresh or chilled, not smoked, mussels "Mytilus spp., Perna spp.", with or without shell	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030742	Cuttle fish and squid, live, fresh or chilled, with or without shell	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030771	Live, fresh or chilled, even in shell, clams, cockles and ark shells "families Arcidae, Arctiidae, Cardidae, Donacidae, Hiatellidae, Mactridae, Mesodesmatidae, Myidae, Semelidae, Solecurtidae, Solenidae, Tridacnidae and Veneridae"	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030781	Live, fresh or chilled, even in shell, abalone "Haliotis spp."	
B. Aquaculture and hatcheries	Marine living animals	Molluscs	B13	A31	030791	Live, fresh or chilled molluscs, even in shell (excl. oysters, scallops of the genera Pecten, Chlamys or Placopecten, mussels "Mytilus spp., Perna spp.", cuttle fish and squid, octopus "Octopus spp.", snails other than sea snails, clams, cockles and ark shells, abalone and stromboid conchs)	
B. Aquaculture and hatcheries	Marine living animals	Miscellaneous aquatic animals	B14	A53	050800	Coral and similar material, unworked or simply prepared	

B. Aquaculture and hatcheries	Marine living animals	Miscellaneous aquatic animals	B14	A41	030811	Live, fresh or chilled, sea cucumbers "Stichopus japonicus, Holothuroidea"		
B. Aquaculture and hatcheries	Marine living animals	Miscellaneous aquatic animals	B14	A44	030830	Live, fresh, chilled, frozen, dried, salted or in brine, even smoked, jellyfish "Rhopilema spp."		
B. Aquaculture and hatcheries	Other living marine products	Aquatic plants, seaweeds and other algae	B21	A51	121221	Seaweeds and other algae, fit for human consumption		
B. Aquaculture and hatcheries	Other living marine products	Aquatic plants, seaweeds and other algae	B21	A51	121229	Seaweeds and other algae, unfit for human consumption		
B. Aquaculture and hatcheries	Other living marine products	Cultured pearls	B22	A52	711010	Cultured pearls, mother-of-pearl, shells		
<b>C. Seafood processing</b>								
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160411	Prepared or preserved salmon, whole or in pieces (excl. minced)	Diadromus fish (live in freshwater and sea water)	FAO classification
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160412	Herrings, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160413	Sardines, sardinella and brising or sprats, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160414	Tunas, skipjack and Atlantic bonito, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160415	Mackerel, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160416	Anchovies, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160418	Shark fins, prepared or preserved		
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160419	Other fish, whole or in pieces, prepared or preserved	Includes freshwater fish and marine products	FAO classification
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Marine fishes	C11		160420	Prepared or preserved fish, excl. whole or in pieces	Includes freshwater fish and marine products	FAO classification
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Crustaceans	C12		160510	Crab, prepared or preserved		

C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Crustaceans	C12	160521	Shrimps and prawns, prepared or preserved, not in airtight containers
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Crustaceans	C12	160529	Other shrimps and prawns, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Crustaceans	C12	160530	Lobster, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Crustaceans	C12	160540	Other crustaceans, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160551	Oysters, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160552	Scallops, including queen scallops, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160553	Mussels, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160554	Cuttle fish and squid, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160555	Octopus, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160556	Clams, cockles and arkshells, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160557	Abalone, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Molluscs	C13	160559	Other molluscs, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Miscellaneous aquatic animals	C14	160561	Sea cucumbers, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Miscellaneous aquatic animals	C14	160562	Sea urchins, prepared or preserved
C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Miscellaneous aquatic animals	C14	160563	Jellyfish, prepared or preserved

C. Seafood processing	Prepared and preserved fish, crustaceans and molluscs	Miscellaneous aquatic animals	C14	160569	Other aquatic invertebrates, prepared or preserved		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	For human consumption	C21	030510	Fish flours fit for human consumption		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	For human consumption	C21	030619	Crustaceans frozen -- Other, including flours, meals and pellets of crustaceans, fit for human consumption		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	For human consumption	C21	030639	Crustaceans live, fresh, chilled or boiled in water -- Other, including flours, meals and pellets of crustaceans, fit for human consumption		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	For human consumption	C21	030699	Crustaceans, dried, salted or in brine, smoked -- Other, including flours, meals and pellets of crustaceans, fit for human consumption		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	Unfit for human consumption	C22	230120	Meals of fish or crustaceans, molluscs or other aquatic invertebrates, unfit for human consumption		
C. Seafood processing	Flours, meals and pellets of fish, crustaceans, molluscs or other aquatic invertebrates	Unfit for human consumption	C22	051191	Products of fish or crustaceans, molluscs or other aquatic invertebrates	Fish, crustaceans & molluscs unfit for human consumption	FAO classification
C. Seafood processing	Flours, meals and pellets of fish or crustaceans, molluscs or other aquatic invertebrates	Unfit for human consumption	C22	230990	Preparations of a kind used in animal feeding, nei		
C. Seafood processing	Fats and oils of fish or marine mammals (refined or not)		C3	150410	Fish-liver oils		
C. Seafood processing	Fats and oils of fish or marine mammals (refined or not)		C3	150420	Fish oils, other than liver oils		
C. Seafood processing	Fats and oils of fish or marine mammals (refined or not)		C3	150430	Oils of marine mammals (Whales, seals and other aquatic mammals)		
C. Seafood processing	Processed meals and dishes		C4	130231	Agar - agar	Includes agar agar in strips, in blocks, in powder)	FAO classification
C. Seafood processing	Processed meals and dishes		C4	160300	Extracts and juices of meat, fish or crustaceans, molluscs or other aquatic invertebrates		

C. Seafood processing	Processed meals and dishes		C4				Caviar			
C. Seafood processing	Processed meals and dishes		C4			160431	Caviar substitutes prepared from fish eggs	It can be made from freshwater and marine fish	FAO classification	
C. Seafood processing	Processed meals and dishes		C4			210390	Other - Preparations for sauces and prepared sauces	Oyster sauce, other fish sauce, other sauces	FAO classification	
C. Seafood processing	Processed meals and dishes		C4			210420	Food preparations consisting of finely homogenised mixtures of two or more basic ingredients, such as meat, fish, vegetables or fruit, put up for retail sale as infant food or for dietetic purposes, in containers of <= 250 g	Includes freshwater fish and marine products	FAO classification	
<b>D. Sea minerals</b>										
D. Sea minerals	Sea salt		D1			250100	Salt (including table salt and denatured salt) and pure sodium chloride, whether or not in aqueous solution or containing added anti-caking or free-flowing agents			
D. Sea minerals	Natural sea sand		D2			250590	Natural sands of all kinds, whether or not coloured (excl. silica sands, quartz sands, gold- and platinum-bearing sands, zircon, rutile and ilmenite sands, monazite sands, and tar or asphalt sands)			
<b>E. Ships, port equipment and parts thereof</b>										
E. Ships, port equipment and parts thereof	Vessels	Fishing vessels	E11			890200	Fishing vessels			
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12			890120	Tankers			
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12			890130	Refrigerated vessels (excl. tankers)			
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12	F21		890190	Vessels for the transport of goods and vessels for the transport of both persons and goods (excl. refrigerated vessels, tankers, ferry-boats and vessels principally designed for the transport of persons)			
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12			890400	Tugs and pusher craft			
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12			890510	Dredgers			

E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12	890520	Floating or submersible drilling or production platforms		Canada NTL
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12	890790	Rafts, tanks, coffer-dams, landing stages, buoys, beacons and other floating structures (excl. inflatable rafts, vessels of heading 8901 to 8906 and floating structures for breaking up)	Marker buoys, excluding wooden buoys, to be employed in commercial fishing or in the commercial harvesting of marine plants	
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12	890590	Light-vessels, fire-floats, floating cranes and other vessels, the navigability of which is subsidiary to their main function (excl. dredgers, floating or submersible drilling or production platforms)		
E. Ships, port equipment and parts thereof	Vessels	Transport vessels and floating structures for commercial marine logistics	E12	890800	Vessels and other floating structures for breaking up		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890110	Cruise ships, excursion boats and similar vessels principally designed for the transport of persons		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890391	Sailboats and yachts, with or without auxiliary motor, for pleasure or sports		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890310	Inflatable vessels for pleasure or sports		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890710	Inflatable rafts		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890392	Motor boats and motor yachts, for pleasure or sports (other than outboard motor boats)		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890399	Other vessels for pleasure or sports		
E. Ships, port equipment and parts thereof	Vessels	Pleasure and sporting boats	E13	890690	Vessels, incl. lifeboats (excl. warships, rowing boats and other vessels of heading 8901 to 8905 and vessels for breaking up)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	903110	Machines for balancing mechanical parts		

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	731600	Anchors, grapnels and parts thereof, of iron or steel
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	860900	Containers (including containers for the transport of fluids) specially designed and equipped for carriage by one or more modes of transport
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842430	Steam or sand blasting machines and similar jet projecting machines, incl. water cleaning appliances with built-in motor (excl. appliances for cleaning special containers)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842489	Mechanical appliances, whether or not hand-operated, for projecting, dispersing or spraying liquids or powders, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842490	Parts of fire extinguishers, spray guns and similar appliances, steam or sand blasting machines and similar jet projecting machines and machinery and apparatus for projecting, dispersing or spraying liquids or powders, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842511	Pulley tackle and hoists, powered by electric motor (other than skip hoists or hoists of a kind used for raising vehicles)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842519	Pulley tackle and hoists (other than skip hoists or hoists of a kind used for raising vehicles), non-powered by electric motor
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842531	Winches and capstans powered by electric motor

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842539	Winches and capstans, non-powered by electric motor	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842542	Jacks and hoists, hydraulic (excl. built-in jacking systems used in garages)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842611	Overhead travelling cranes on fixed support	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842612	Mobile lifting frames on tyres and straddle carriers	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842619	Overhead travelling cranes, transporter cranes, gantry cranes, bridge cranes and mobile lifting frames (excl. overhead travelling cranes on fixed support, mobile lifting frames on tyres, straddle carriers and portal or pedestal jib cranes)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842620	Tower cranes	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842630	Portal or pedestal jib cranes	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842641	Mobile cranes and works trucks fitted with a crane, self-propelled, on tyres (excl. wheel-mounted cranes, mobile lifting frames on tyres and straddle carriers)	

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842549	Mobile cranes and works trucks fitted with a crane, self-propelled (excl. those on tyres and straddle carriers)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842691	Cranes designed for mounting on road vehicles
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842699	Ships' derricks
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842710	Self-propelled trucks fitted with lifting or handling equipment, powered by an electric motor
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842720	Self-propelled trucks fitted with lifting or handling equipment, non-powered by an electric motor
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842790	Works trucks fitted with lifting or handling equipment, not self-propelled
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842810	Lifts and skip hoists
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842820	Pneumatic elevators and conveyors

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842831	Continuous-action elevators and conveyors for goods or materials, for underground use (excl. pneumatic elevators and conveyors)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842832	Continuous-action elevators and conveyors for goods or materials, bucket type (excl. for underground use)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842839	Continuous-action elevators and conveyors, for goods or materials (excl. those for underground use and bucket, belt or pneumatic types)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842840	Escalators and moving walkways
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842890	Machinery for lifting, handling, loading or unloading, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	843110	Parts of pulley tackles and hoists (other than skip hoists), winches, capstans and jacks, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	843120	Parts of fork-lift trucks and other works trucks fitted with lifting or handling equipment, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	843131	Parts of lifts, skip hoists or escalators, n.e.s.

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	843139	Parts of machinery of heading 8428, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	846711	Tools for working in the hand, pneumatic, rotary type, incl. combined rotary-percussion
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	846719	Pneumatic tools for working in the hand, non-rotary type
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	846781	Chainsaws for working in the hand, with self-contained non-electric motor
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	846789	Tools for working in the hand, hydraulic or with self-contained non-electric motor (excl. chainsaws and pneumatic tools)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842833	Continuous-action elevators and conveyors for goods or materials, belt type (excl. those for underground use)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842320	Scales for continuous weighing of goods on conveyors
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842330	Constant weight scales and scales for discharging a pre-determined weight of material into a bag or container, incl. hopper scales (excl. scales for continuous weighing of goods on conveyors)

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842381	Weighing machinery having a maximum weighing capacity $\leq$ 30 kg (excl. balances of a sensitivity of 5 cg or better, personal weighing machines, household scales, scales for continuous weighing of goods on conveyors, constant weight scales and scales for discharging a pre-determined weight of material into a bag or container, incl. hopper scales)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842382	Weighing machinery of a maximum weighing capacity $>$ 30 kg but $\leq$ 5.000 kg (excl. personal weighing machines, scales for continuous weighing of goods on conveyors, constant weight scales and scales for discharging a pre-determined weight of material into a bag or container, incl. hopper scales)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842389	Weighing machinery of a maximum weighing capacity $>$ 5.000 kg
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842390	Weighing machine weights of all kinds
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	842860	Teleferics, chairlifts, ski-draglines
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	870911	Electrical vehicles not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	870919	Works trucks, self-propelled, not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Cargo-handling equipment and related supporting appliances (e.g. cranes, forklifts and other equipment and machinery)	E21	870990	Parts of self-propelled works trucks, not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods, incl. tractors for railways station platforms, n.e.s.

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	902511	Thermometers, liquid-filled, for direct reading, not combined with other instruments
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	902580	Hydrometers, areometers and similar floating instruments, barometers, hygrometers and psychrometers, whether or not combined with each other or with thermometers
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	901520	Theodolites and tachymeters "tachemeters"
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	901530	Levels - Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	901580	Instruments and appliances used in geodesy, topography, hydrography, oceanography, hydrology, meteorology or geophysics (excl. compasses, rangefinders, theodolites, tachymeters "tachemeters", levels and photogrammetrical surveying instruments and appliances)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	901590	Parts and accessories for instruments and appliances used in geodesy, topography, photogrammetrical surveying, hydrography, oceanography, hydrology, meteorology or geophysics, and for rangefinders, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems, appliances and equipments for maritime transport and ports	E22	902590	Parts and accessories for hydrometers, areometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, n.e.s.

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	901410	Direction finding compasses	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	901480	Navigational instruments and apparatus (excl. for aeronautical or space navigation, compasses and radio navigational equipment)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	852610	Radar apparatus	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	901540	Photogrammetrical surveying instruments and appliances	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	901490	Parts and accessories for compasses and other navigational instruments and appliances, n.e.s.	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Navigation aids, communications and information technology systems appliances and equipments for maritime transport and ports	E22	852352	Cards incorporating one or more electronic integrated circuits "smart cards"	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	850211	Generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output <= 75 kVA	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	854430	Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	840721	Spark-ignition outboard motors for marine propulsion	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840211	Watertube boilers with a steam production > 45 t/hour	May be used for producing diverse type of energy
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840410	Auxiliary plant for use with boilers of heading 8402 or 8403, e.g. economizers, superheaters, soot removers and gas recoverers	May be used for producing diverse type of energy
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840290	Parts of vapour generating boilers and superheated water boilers, n.e.s.	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840610	Steam and other vapour turbines for marine propulsion	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840810	Compression-ignition internal combustion piston engine "diesel or semi-diesel engine", for marine propulsion	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	848710	Ships' or boats' propellers and blades therefor	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	831110	Coated electrodes of base metal, for electric arc-welding	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	401694	Boat or dock fenders, whether or not inflatable, of vulcanised rubber (excl. hard rubber and those of cellular rubber)	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	850120	Universal AC-DC motors of an output > 37,5 W	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840420	Condensers for steam or other vapour power units	
E. Ships, port equipment and parts thereof	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840490	Parts of auxiliary plant of heading 8402 or 8403 and condensers for steam or other vapour power units, n.e.s.	

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840991	Parts suitable for use solely or principally with spark-ignition internal combustion piston engine, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	840999	Parts suitable for use solely or principally with compression-ignition internal combustion piston engine "diesel or semi-diesel engine", n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841210	Reaction engines other than turbojets
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841221	Hydraulic power engines and motors, linear acting "cylinders"
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841229	Hydraulic power engines and motors (excl. hydraulic turbines and water wheels of heading 8410, steam turbines and hydraulic power engines and motors, linear acting)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841231	Pneumatic power engines and motors, linear-acting, "cylinders"
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841239	Pneumatic power engines and motors (excl. linear acting)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841280	Engines and motors (excl. steam turbines, internal combustion piston engine, hydraulic turbines, water wheels, gas turbines, reaction engines, hydraulic power engines and motors, pneumatic power engines and motors and electric motors)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841290	Parts of non-electrical engines and motors, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841311	Pumps fitted or designed to be fitted with a measuring device, for dispensing fuel or lubricants, of the type used in filling stations or in garages
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841319	Pumps for liquids, fitted or designed to be fitted with a measuring device (excl. pumps for dispensing fuel or lubricants, of the type used in filling stations or in garages)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841320	Hand pumps for liquids (excl. those of subheading 8413.11 and 8413.19)

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841381	841381	Pumps for liquids, power-driven (excl. those of subheading 8413.11 and 8413.19, fuel, lubricating or cooling medium pumps for internal combustion piston engine, concrete pumps, general reciprocating or rotary positive displacement pumps and centrifugal pumps of all kinds)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841382	841382	Liquid elevators (excl. pumps)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	F21	841391	Parts of pumps for liquids, n.e.s.	Spare parts also used for oil spill cleaning machinery	LSM Pumps, Denmark, www.lsm.dk
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841392	841392	Parts of liquid elevators, n.e.s.		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841410	841410	Vacuum pumps		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841430	841430	Compressors for refrigerating equipment		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841440	841440	Air compressors mounted on a wheeled chassis for towing		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841451	841451	Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output ≤ 125 W		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841459	841459	Fans (excl. table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output ≤ 125 W)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841460	841460	Hoods incorporating a fan, whether or not fitted with filters, having a maximum horizontal side ≤ 120 cm		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841480	841480	Air pumps, air or other gas compressors and ventilating or recycling hoods incorporating a fan, whether or not fitted with filters, having a maximum horizontal side > 120 cm (excl. vacuum pumps, hand- or foot-operated air pumps, compressors for refrigerating equipment and air compressors mounted on a wheeled chassis for towing)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841581	841581	Air conditioning machines incorporating a refrigerating unit and a valve for reversal of the cooling-heat cycle "reversible heat pumps" (excl. of a kind used for persons in motor vehicles and self-contained or "split-system" window or wall air conditioning machines)		

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841582	Air conditioning machines incorporating a refrigerating unit but without a valve for reversal of the cooling-heat cycle (excl. of a kind used for persons in motor vehicles, and self-contained or "split-system" window or wall air conditioning machines)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841583	Air conditioning machines comprising a motor-driven fan, not incorporating a refrigerating unit but incorporating elements for changing the temperature and humidity (excl. of a kind used for persons in motor vehicles, and self-contained or "split-system" window or wall air conditioning machines)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841590	Parts of air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841610	Furnace burners for liquid fuel
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841620	Furnace burners for pulverised solid fuel or gas, incl. combination burners
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841630	Mechanical stokers, incl. their mechanical grates, mechanical ash dischargers and similar appliances (excl. burners)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841690	Parts of furnace burners such as mechanical stokers, incl. their mechanical grates, mechanical ash dischargers and similar appliances, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841710	Industrial or laboratory furnaces and ovens, non-electric, for the roasting, melting or other heat treatment of ores, pyrites or metals (excl. drying ovens)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841891	Furniture designed to receive refrigerating or freezing equipment
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841899	Parts of refrigerating or freezing equipment and heat pumps, n.e.s.
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841911	Instantaneous gas water heaters (excl. boilers or water heaters for central heating)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841919	Instantaneous or storage water heaters, non-electric (excl. instantaneous gas water heaters and boilers or water heaters for central heating)

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841940	Distilling or rectifying plant		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841950	Heat-exchange units (excl. those used with boilers)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841960	Machinery for liquefying air or other gases		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	841360	Rotary positive displacement pumps for liquids, power-driven (excl. those of subheading 8413.11 and 8413.19 and fuel, lubricating or cooling medium pumps for internal combustion piston engine)	Pumps for pumping fish from large ships onto trucks for longdistance delivery or at a fishing factory	LSM Pumps, Denmark, www.lsm.dk
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	842010	Calendering or other rolling machines (other than for metals or glass)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	842091	Cylinders for calendering or other rolling machines (other than for metals or glass)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	842099	Parts for calendering or rolling machines, n.e.s. (other than for metals or glass and excl. cylinders)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	842131	Intake air filters for internal combustion engines		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	842139	Machinery and apparatus for filtering or purifying gases (excl. isotope separators and intake air filters for internal combustion engines)		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	850212	Generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output > 75 KVA but ≤ 375 KVA		
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	850213	Generating sets with compression-ignition internal combustion piston engine "diesel or semi-diesel engine" of an output > 375 KVA		

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850220	Generating sets with spark-ignition internal combustion piston engine	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850410	Ballasts for discharge lamps or tubes	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850421	Liquid dielectric transformers, having a power handling capacity <= 650 kVA	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850422	Liquid dielectric transformers, having a power handling capacity > 650 kVA but <= 10.000 kVA	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850423	Liquid dielectric transformers, having a power handling capacity > 10.000 kVA	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850431	Transformers having a power handling capacity <= 1 kVA (excl. liquid dielectric transformers)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850432	Transformers, having a power handling capacity > 1 kVA but <= 16 kVA (excl. liquid dielectric transformers)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850433	Transformers having a power handling capacity > 16 kVA but <= 500 kVA (excl. liquid dielectric transformers)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850434	Transformers having a power handling capacity > 500 kVA (excl. liquid dielectric transformers)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850450	Inductors (excl. inductors for discharge lamps or tubes)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850490	Parts of electrical transformers and inductors, n.e.s.	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	851410	Resistance heated industrial or laboratory furnaces and ovens (excl. drying ovens)	

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	851430	Electric industrial or laboratory furnaces and ovens (excl. resistance heated, induction, dielectric and drying furnaces and ovens)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	840110	Nuclear reactors [Euratom]	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	840130	Fuel elements "cartridges", non-irradiated, in casing with handling fixtures, for nuclear reactors [Euratom]	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	840140	Parts of nuclear reactors, n.e.s. [Euratom]	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	840729	Spark-ignition reciprocating or rotary engines, for marine propulsion (excl. outboard motors)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	841181	Gas turbines of a power $\leq$ 5.000 kW (excl. turbojets and turbopropellers)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	841182	Gas turbines of a power $>$ 5.000 kW (excl. turbojets and turbopropellers)	Code also used by the Biogas Industry UNEP, 2018, Trade in environmentally sound technologies
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	841861	Heat pumps (excl. air conditioning machines of heading 8415)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	841869	Refrigerating or freezing equipment (excl. refrigerating and freezing furniture)	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850140	AC motors, single-phase, of an output $>$ 37,5 W	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850151	AC motors, multi-phase, of an output $>$ 37,5 W but $\leq$ 750 W	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	E23	850152	AC motors, multi-phase, of an output $>$ 750 W but $\leq$ 75 kW	

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	850153	AC motors, multi-phase, of an output > 75 kW
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730431	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of iron or non-alloy steel, cold-drawn or cold-rolled "cold-reduced" (excl. cast iron products and line pipe of a kind used for oil or gas pipelines or casing and tubing of a kind used for drilling for oil or gas)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730439	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of iron or non-alloy steel, not cold-drawn or cold-rolled "cold-reduced" (excl. cast iron products, line pipe of a kind used for oil or gas pipelines, casing and tubing of a kind used for drilling for oil or gas)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730441	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of stainless steel, cold-drawn or cold-rolled "cold-reduced" (excl. line pipe of a kind used for oil or gas pipelines, casing and tubing of a kind used for drilling for oil or gas)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730449	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of stainless steel, not cold-drawn or cold-rolled "cold-reduced" (excl. line pipe of a kind used for oil or gas pipelines or of a kind used for drilling for oil or gas)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730451	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of alloy steel other than stainless, cold-drawn or cold-rolled "cold-reduced" (excl. line pipe of a kind used for oil or gas pipelines, casing and tubing of a kind used for drilling for oil)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730459	Tubes, pipes and hollow profiles, seamless, of circular cross-section, of alloy steel other than stainless, not cold-drawn or cold-rolled "cold-reduced" (excl. line pipe of a kind used for oil or gas pipelines, casing and tubing of a kind used for drilling for oil)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730490	Tubes, pipes and hollow profiles, seamless, of non-circular cross-section, of iron or steel (excl. products of cast iron)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730511	Line pipe of a kind used for oil or gas pipelines, having circular cross-sections and an external diameter of > 406,4 mm, of iron or steel, longitudinally submerged arc welded
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730512	Line pipe of a kind used for oil or gas pipelines, having circular cross-sections and an external diameter of > 406,4 mm, of iron or steel, longitudinally arc welded (excl. products longitudinally submerged arc welded)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730531	Tubes and pipes having circular cross-sections and an external diameter of > 406,4 mm, of iron or steel, longitudinally welded (excl. products of a kind used for oil or gas pipelines or of a kind used in drilling for oil or gas)
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730539	Tubes and pipes having circular cross-sections and an external diameter of > 406,4 mm, of iron or steel, welded (excl. products longitudinally welded or of a kind used for oil or gas pipelines or of a kind used in drilling for oil or gas)

E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	730590	Tubes and pipes having circular cross-sections and an external diameter of > 406.4 mm, of flat-rolled products of iron or steel, welded (excl. welded products or products of a kind used for oil or gas pipelines or of a kind used in drilling for oil or gas)	Canada NTL	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	n.c.i.	Marine evacuation chutes	Canada NTL	
E. Ships, port equipment and parts thereof	Parts of vessels and inputs supporting navigation and ports	Parts of vessels and other inputs n.e.c., specific to maritime transport and ports	E23	n.c.i.	Marine paint for vessels	<a href="https://shipsight.com/articles/marine-coating-technologies">https://shipsight.com/articles/marine-coating-technologies</a>	
<b>F. High-technology and other manufactures not elsewhere classified</b>							
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560729	Twine, cordage, ropes and cables, of sisal or other textile fibres of the genus Agave, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics (excl. binder or baler twine)	Canada NTL	
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560790	Twine, cordage, ropes and cables, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics (excl. that of synthetic fibres and of sisal or other textile fibres of the genus Agave)	Canada NTL/ Oliveira SA	

F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560811	Made-up knotted fishing nets of man-made textile materials (excl. landing nets)	Oliveira SA
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560819	Knotted netting of twine, cordage, ropes or cables, by the piece or metre	Canada NTL
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560890	Knotted netting of twine, cordage, ropes or cables, by the piece or metre	Canada NTL
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560750	Twine, cordage, ropes and cables, of synthetic fibres, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics (excl. polyethylene and polypropylene)	Oliveira SA/ Euronete
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560749	Twine, cordage, ropes and cables of polyethylene or polypropylene, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics (excl. binder or baler twine)	Oliveira SA/ Euronete
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	560900	Articles of yarn, strip or the like of heading 5404 or 5405, or of twine, cordage, ropes or cables of heading 5607, n.e.s.	Oliveira SA

F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731210	Stranded wire, ropes and cables, of iron or steel (excl. electrically insulated products) and twisted fencing wire and barbed wire)	used to the construction of fishing gears used in trawl or purse seine assembled in winches. used to hold and launch the net	Oliveira SA
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731290	Plaited bands, slings and the like, of iron or steel (excl. electrically insulated products)	used for example in purse seine nets	Oliveira SA
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	732690	Articles of iron or steel, n.e.s. (excl. cast articles or articles of iron or steel wire)	Couplings for sucker rods, pony rods or polished rods for oilfield related pumps; Fishing tools and parts thereof to be employed in the exploration, discovery, development, maintenance, testing, depletion or production. ...	Canada NTL
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	950710	Fishing rods		
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	950730	Fishing reels		
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	950790	Line fishing tackle n.e.s		
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	950720	Fish-hooks, whether or not shelled		

F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	n.c.i.	Articles and materials for use in the manufacture or repair of the following to be employed in commercial fishing or the commercial harvesting of marine plants: Artificial bait; Carapace measures; Cordage, fishing lines (including marlinlines), rope and twin	Canada NTL (990100)
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	820411	Hand-operated spanners and wrenches, incl. torque meter wrenches, of base metal, non-adjustable	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	820412	Hand-operated spanners and wrenches, incl. torque meter wrenches, of base metal, adjustable (excl. lap wrenches)	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731420	Grill, netting and fencing, welded at the intersection, having a mesh size of $\geq 100 \text{ cm}^2$ , of iron or steel wire with a maximum cross-sectional dimension of $\geq 3 \text{ mm}$	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731431	Grill, netting and fencing, of iron or steel wire, welded at the intersection, plated or coated with zinc (excl. products of wire with a maximum cross-sectional dimension of $\geq 3 \text{ mm}$ and having a mesh size of $\geq 100 \text{ cm}^2$ )	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731439	Grill, netting and fencing, of iron or steel wire, welded at the intersection (excl. products of wire with a maximum cross-sectional dimension of $\geq 3 \text{ mm}$ and having a mesh size of $\geq 100 \text{ cm}^2$ ; and grill, netting and fencing plated or coated with zinc)	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731441	Grill, netting and fencing, of iron or steel wire, not welded at the intersection, plated or coated with zinc	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731442	Grill, netting and fencing, of iron or steel wire, not welded at the intersection, coated with plastics	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	731449	Grill, netting and fencing, of iron or steel wire, not welded at the intersection (excl. plated or coated with zinc or coated with plastics)	
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	750810	Cloth, grill, netting and fencing, of nickel wire	

F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	761691	Cloth, grill, netting and fencing, of aluminium wire (excl. cloth of metal fibres for clothing, lining and similar uses, and cloth, grill and netting made into hand sieves or machine parts)		<a href="https://www.aquafineuv.com/cms-portals/aqua_com/cms/documents/Market-Marketing-Briefs/TSG-233A-18-Aquaculture-Marketing-Brief-LR.pdf">https://www.aquafineuv.com/cms-portals/aqua_com/cms/documents/Market-Marketing-Briefs/TSG-233A-18-Aquaculture-Marketing-Brief-LR.pdf</a>
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	392690	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s. (excl. goods of 9619)		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of fishing gear and fishing equipment, not including vessels and parts thereof	F11	n.c.i.	Other products from chapter 39 - plastics and products thereof		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	901820	Ultraviolet or infra-red ray apparatus used in medical, surgical, dental or veterinary sciences		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	854110	Diodes (excl. photosensitive or light emitting diodes "LED")		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	843610	Machinery for preparing animal feedings in agricultural holdings and similar undertakings (excl. machinery for the feedings in industry, forage harvesters and autoclaves for cooking fodder)		<a href="http://www.fao.org/fishery/technology/aquaculture/en#container">http://www.fao.org/fishery/technology/aquaculture/en#container</a>
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	731010	Tanks, casks, drums, cans, boxes and similar containers, of iron or steel, for any material, of a capacity of >= 50 l but <= 300 l, n.e.s. (excl. containers for compressed or liquefied gas, or containers fitted with mechanical or thermal equipment)		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	731029	Tanks, casks, drums, cans, boxes and similar containers, of iron or steel, for any material, of a capacity of < 50 l, n.e.s. (excl. containers for compressed or liquefied gas, or containers fitted with mechanical or thermal equipment, and cans which are to be closed by soldering or crimping)		
F: High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	761100	Reservoirs, tanks, vats and similar containers, of aluminium, for any material (other than compressed or liquefied gas), of a capacity of > 300 l, not fitted with mechanical or thermal equipment; whether or not lined or heat-insulated (excl. containers specifically constructed or equipped for one or more types of transport)		

F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	842191	Parts of centrifuges, incl. centrifugal dryers, n.e.s.	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	nano-hose aeration	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	floating aerator, paddle wheel or air-jet	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	greenhouse material of permanent manufactured structure	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	greenhouse material of temporary manufactured structure	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	material for irrigating ponds with heating or cooling	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	baskets or boxes on floating racks	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	net or fence	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	cages or happas	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	traditional / conventional net cages	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	stationary traditional / conventional net cages for shallow waters	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	floating traditional / conventional net cages	FAO, CWP-IS/2019/3

F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	traditional wooden / bamboo cages	FAO, CWP-IS/2019/3
F. High-technology and other manufactures n.e.c.	Manufactures for the fishing and aquaculture industries; excludes vessels and parts thereof	Manufacture of products and technologies for aquaculture	F12	n.c.i.	Fish feed and medicine	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	847180	Units for automatic data-processing machines (excl. processing units, input or output units and storage units)	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	382100	Prepared culture media for the development or maintenance of micro-organisms (including viruses and the like) or of plant, human or animal cells	Marine biotechnology: <a href="http://www.oceansatlas.org/subtopic/en/c/282/">http://www.oceansatlas.org/subtopic/en/c/282/</a> ; Environmental technology <a href="http://www.oceansatlas.org/subtopic/en/c/286/">http://www.oceansatlas.org/subtopic/en/c/286/</a>
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	391400	Ionexchangers based on polymers of headings 39.01 to 39.13, in primary forms.	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	392010	Other plates, sheets, film, foil and strip, of plastics, non-cellular and not reinforced, laminated, supported or similarly combined with other materials: of polymers of ethylene	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	560314	Nonwovens, whether or not impregnated, coated, covered or laminated, Weighing more than 150 g/m <sup>2</sup>	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	591190	Textile products and articles, for technical uses, specified in Note 7 to this Chapter: Filter bags and similar for use in purifying plants	
F. High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	841350	Reciprocating positive displacement pumps not elsewhere specified	

F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	841939	Dryers, other		Recycling	For separation and removal of pollutants through condensation. Includes fluidised bed systems (bubbling, circulating, etc.) and biomass boilers. Can also help aerobic digestion of organic matter
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	841989	Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, sterilising, pasteurising, steaming, evaporating, vapourising, condensing or cooling, n.e.s. (excl. machinery used for domestic purposes and furnaces, ovens and other equipment of heading 8514)			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	842121	Filtering or purifying machinery and apparatus for liquids: for filtering or purifying water			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	842129	Filtering or purifying machinery and apparatus for liquids; other			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	842199	Parts of filtering or purifying machinery and apparatus for liquids or gases			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		848130	Check (non-return) valves			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		848140	Safety or relief valves			
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		854370	Other electrical machines and apparatus having individual functions (not specified elsewhere in chapter 85)			

F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	F12	842119	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases: Other	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		460129	Mats, matting and screens of vegetable materials: Other	
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		854389	Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter; other	Oil spill response equipment
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		400912	Tubes, pipes and hoses, of vulcanised rubber (excl. hard rubber), not reinforced or otherwise combined with other materials, with fittings	Oil spill response equipment
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		841370	Centrifugal pumps, power-driven (excl. those of subheading 8413.11 and 8413.19, fuel, lubricating or cooling medium pumps for internal combustion piston engine and concrete pumps)	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		845150	Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		871640	Trailers and semi-trailers, not designed for running on rails (excl. trailers and semi-trailers for the transport of goods and those of the caravan type for housing or camping)	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	F12	392510	Reservoirs, tanks, vats and similar containers, of plastics, with a capacity of > 300 l	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21		820600	Sets of two or more tools of heading 8202 to 8205, put up in sets for retail sale	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	841780	Industrial or laboratory furnaces and ovens, non-electric, incl. incinerators (excl. those for the roasting, melting or other heat treatment of ores, pyrites or metals, bakery ovens, drying ovens and ovens for cracking operations)	<b>Elastec_US-bz</b>

F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	841790	Parts of industrial or laboratory furnaces, non-electric, incl. incinerators, n.e.s.	Oil spill response equipment	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	E23	880100	Balloons and dirigibles	Oil spill response equipment	Elastec_US-bz
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Technologies for wastewater management, water treatment and clean up or remediation	F21	n.c.i.		Environmental monitoring (air, water quality) equipment		
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	730820	Towers and lattice masts	Wind	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	848340		Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately	Wind	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	848210		Ball bearings	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	848220		Tapered roller bearings, incl. cone and tapered roller assemblies	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	848230		Spherical roller bearings	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environmentally sound technologies

F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	848240	Needle roller bearings	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	848250	Cylindrical roller bearings (excl. needle roller bearings)	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	848280	Roller bearings, incl. combined ball-roller bearings (excl. ball bearings, tapered roller bearings, incl. cone and tapered roller assemblies, spherical roller bearings, needle and cylindrical roller bearings)	Wind	Critical in wind-energy value-chain, UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	850231	Generating sets, wind-powered	Wind	UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	850440	Static converters	Wind	UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	841011	Hydraulic turbines and water wheels, of a power $\leq$ 1,000 kW (excl. hydraulic power engines and motors of heading 8412)	Hydropower	UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	841012	Hydraulic turbines and water wheels, of a power $>$ 1,000 kW but $\leq$ 10,000 kW (excl. hydraulic power engines and motors of heading 8412)	Hydropower	UNEP, 2018, Trade in environment-tally sound technologies
F. High-technology and other manufactures n.e.c.	Cleaner and renewable energy technologies	F22	841013	Hydraulic turbines and water wheels, of a power $>$ 10,000 kW (excl. hydraulic power engines and motors of heading 8412)	Hydropower	UNEP, 2018, Trade in environment-tally sound technologies

F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	841090	Parts of hydraulic turbines and water wheels incl. regulators	Hydropower	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	850239	Generating sets (excl. wind-powered and powered by spark-ignition internal combustion piston engine)	Hydropower	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	841199	Parts of gas turbines	Biogas	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22		290511	Methanol	Biogas	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840681	Steam and other vapour turbines, of an output > 40 MW (excl. those for marine propulsion)	Turbines used in geothermal, wind, solar thermal, biomass	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840682	Steam and other vapour turbines, of an output ≤ 40 MW (excl. those for marine propulsion)	Turbines used in geothermal, wind, solar thermal, biomass	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22		840310	Central heating water boilers other than those of heading 84.02	May be used in different energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22		840390	Parts for 840310	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22		840690	Parts for steam and other vapour turbines	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22		850300	Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies

F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840212	Watertube boilers with a steam production $\leq 45$ T/hour (excl. central heating hot water boilers capable also of producing low pressure steam)	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840219	Vapour generating boilers, incl. hybrid boilers (excl. central heating hot water boilers capable also of producing low pressure steam)	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840220	Superheated water boilers	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840510	Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	840590	Parts of producer gas or water gas generators and acetylene gas generators or similar water process gas generators, n.e.s.	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	850161	AC generators "alternators", of an output $\leq 75$ KVA	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	850162	AC generators "alternators", of an output $> 75$ KVA but $\leq 375$ KVA	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	850163	AC generators "alternators", of an output $> 375$ KVA but $\leq 750$ KVA	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies
F: High-technology and other manufactures n.e.c.	High technology manufactures for environment sustainability and clean energy	Cleaner and renewable energy technologies	F22	E23	850164	AC generators "alternators", of an output $> 750$ KVA	May be used for producing diverse type of energy	UNEP, 2018, Trade in environmentally sound technologies

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300310	Medicaments consisting of two or more constituents mixed together for therapeutic or prophylactic uses, not in measured doses or put up for retail sale (excl. goods of heading 3002, 3005 or 3006)	Medicaments consisting of two or more constituents mixed together for therapeutic or prophylactic uses, not in measured doses or put up for retail sale (excl. goods of heading 3002, 3005 or 3006)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300320	Medicaments containing antibiotics, not in measured doses or put up for retail sale (excl. medicaments containing penicillins or derivatives thereof with a penicillic acid structure, or streptomycins or derivatives thereof)	Medicaments consisting of mixed or unmixed products for therapeutic or prophylactic uses, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. goods of heading 3002, 3005 or 3006)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300331	Medicaments containing insulin, not in measured doses or put up for retail sale	Antibiotics, Streptomycin, Tetracycline
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300339	Medicaments containing hormones or steroids used as hormones, not containing antibiotics, not in measured doses or put up for retail sale (excl. those containing insulin)	Organo-sulphur compounds
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300341	Medicaments containing ephedrine or its salts, not containing hormones, steroids used as hormones or antibiotics, not in measured doses or put up for retail sale	Organo-inorganic compounds

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300342	Medicaments containing pseudoephedrine "INN" or its salts, not containing hormones, steroids used as hormones or antibiotics, not in measured doses or put up for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300343	Medicaments containing norephedrine or its salts, not containing hormones, steroids used as hormones or antibiotics, not in measured doses or put up for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300349	Medicaments containing alkaloids or derivatives thereof, not containing hormones, steroids used as hormones or antibiotics, not in measured doses or put up for retail sale (excl. containing ephedrine, pseudoephedrine "INN", norephedrine or their salts)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300360	Medicaments containing any of the following antimalarial active principles: artemisinin "INN" for oral ingestion combined with other pharmaceutical active ingredients, or amodiaquine "INN"
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300390	Medicaments consisting of two or more constituents mixed together for therapeutic or prophylactic uses, not in measured doses or put up for retail sale (excl. antibiotics containing hormones or steroids used as hormones, but not containing antibiotics, alkaloids or derivatives thereof, hormones, antibiotics, antimalarial active principles or goods of heading 3002, 3005 or 3006)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300410	Medicaments containing penicillins or derivatives thereof with a penicillanic acid structure, or streptomycins or derivatives thereof, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300420	Medicaments containing antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. medicaments containing penicillins or derivatives thereof with a penicillanic structure, or streptomycins or derivatives thereof)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300431	Medicaments containing insulin but not antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300432	Medicaments containing corticosteroid hormones, their derivatives or structural analogues; put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300439	Medicaments containing hormones or steroids used as hormones but not antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. medicaments containing insulin or corticosteroid hormones, their derivatives or structural analogues)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300441	Medicaments containing ephedrine or its salts, not containing hormones, steroids used as hormones or antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300442	Medicaments containing pseudoephedrine "INN" or its salts, not containing hormones, steroids used as hormones or antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300443	Medicaments containing norephedrine or its salts, not containing hormones, steroids used as hormones or antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300449	Medicaments containing alkaloids or derivatives thereof, not containing hormones, steroids used as hormones or antibiotics, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. containing ephedrine, pseudoephedrine "INN", norephedrine or their salts)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300450	Medicaments containing provitamins, vitamins, incl. natural concentrates and derivatives thereof used primarily as vitamins, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. containing antibiotics, hormones, alkaloids, or their derivatives)
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300460	Medicaments containing any of the following antimalarial active principles: artemisinin "INN" for oral ingestion combined with other pharmaceutical active ingredients, or amodiaquine "INN"

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	300490	Medicaments consisting of mixed or unmixed products for therapeutic or prophylactic purposes, put up in measured doses "incl. those for transdermal administration" or in forms or packings for retail sale (excl. containing antibiotics, hormones or steroids used as hormones, alkaloids, provitamins, vitamins, their derivatives or antimalarial active principles)	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294110	Penicillins and their derivatives with a penicillanic acid structure	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294120	Streptomycins and their derivatives	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294130	Tetracyclines and their derivatives	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294140	Chloramphenicol and its derivatives	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294150	Erythromycin and its derivatives	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	294190	Antibiotics (excl. penicillins and their derivatives with a penicillanic acid structure, salts thereof, streptomycins, tetracyclines, chloramphenicol and erythromycin, their derivatives and salts thereof)	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293020	Thiocarbamates and dithiocarbamates (excl. inorganic or organic compounds of mercury)	

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293030	Thiuram mono-, di- or tetrasulphides	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293040	Methionine	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293060	2-(N,N-Diethylamino)ethanethiol	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293070	Bis(2-hydroxyethyl)sulfide (thiodiglycol (INN))	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293080	Aldicarb (ISO), Captafol (ISO) and methamidophos (ISO)	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293090	Organo-sulphur compounds (excl. thiocarbamates and dithiocarbamates, thiuram mono-, di- or tetrasulphides, methionine, 2-(N,N-Diethylamino)ethanethiol, Bis(2-hydroxyethyl)sulfide (thiodiglycol (INN)), aldicarb (ISO), captafol (ISO) and methamidophos (ISO))	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293110	Tetramethyl lead and tetraethyl lead	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293120	Tributyltin compounds	

F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293131	Dimethyl methylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293132	Dimethyl propylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293133	Diethyl ethylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293134	Sodium 3-(trihydroxysilyl)propyl methylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293135	2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-trioxide	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293136	(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl methyl methylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293137	Bis[5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl] methylphosphonate	
F. High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293138	Salt of methylphosphonic acid and (aminiminomethyl)urea (1 - 1)	

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293139	Separate chemically defined organo-phosphorous derivatives, n.e.s.			
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Medicines (pharmaceuticals)	F31	293190	Separate chemically defined organo-inorganic compounds (excl. organo-sulphur, mercury, tetramethyl lead, tetraethyl lead and tributyltin compounds, and organo-phosphorous derivatives)			
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	210610	Protein concentrates and textured protein substances			
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	210690	Food preparations, n.e.s.	Marine Collagen and other vitamins in capsules, etc	US NTL	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293626	Vitamin B12 and its derivatives, used primarily as vitamins	Natural or reproduced by synthesis (HS 2017)	<a href="https://www.nature.com/articles/1821386a0">https://www.nature.com/articles/1821386a0</a>	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293629	Vitamins and their derivatives, used primarily as vitamins, unmixed (excl. vitamins A, B1, B2, B3, B5, B6, B12, C, E and their derivatives)	Vitamin D	Marine Essentials- Marine D3™ Improved... – Amazon.com	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293621	Vitamins A and their derivatives, used primarily as vitamins			
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293622	Vitamin B1 and its derivatives, used primarily as vitamins			

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293623	Vitamin B2 and its derivatives, used primarily as vitamins		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293624	D-Pantothenic or DL-pantothenic acid "Vitamin B3 or B5" and their derivatives, used primarily as vitamins		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293625	Vitamin B6 and its derivatives, used primarily as vitamins		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293627	Vitamin C and its derivatives, used primarily as vitamins		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293628	Vitamin E and its derivatives, used primarily as vitamins		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	293690	Provitamins and mixtures of vitamins, of provitamins or of concentrates, whether or not in any solvent, and natural concentrates		
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Vitamins and food supplements	F32	n.c.i.	Omega3 and its derivatives, used primarily as vitamins	<a href="https://academic.oup.com/clinchem/article/65/12/1508/5715823">https://academic.oup.com/clinchem/article/65/12/1508/5715823</a>	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Supply and equipment of the marine pharmaceutical or chemical industry	F33	n.c.i.	Supply and equipment of the marine pharmaceutical/chemical industry		

F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Cosmetics	F34	330410	Lip make-up preparations	Beauty or make-up preparations for the care of the skin (other than medicaments), including sunscreen or suntan preparations
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Cosmetics	F34	330420	Eye make-up preparations	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Cosmetics	F34	330430	Manicure or pedicure preparations	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Cosmetics	F34	330491	Make-up or skin care powders, incl. baby powders, whether or not compressed (excl. medicaments)	
F: High-technology and other manufactures n.e.c.	Pharmaceuticals and chemicals made of marine organisms; related appliances equipment of the industry	Cosmetics	F34	330499	Beauty or make-up preparations for the care of the skin (other than medicaments), incl. sunscreen or suntan preparations (excl. medicaments, lip and eye make-up preparations, manicure or pedicure preparations and make-up or skin care powders, incl. baby powders)	
F: High-technology and other manufactures n.e.c.	Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials		F4	630612	Tarpaulins, awnings and sunblinds of synthetic fibres (excl. flat covers of light fabrics made up as tarpaulins)	
F: High-technology and other manufactures n.e.c.	Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials		F4	950621	Sailboards	
F: High-technology and other manufactures n.e.c.	Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials		F4	901510	Rangefinders	

F: High-technology and other manufactures n.e.c.	Manufacture of coastal and marine sport goods, textile articles (except apparel) and other materials	F4	400911	Tubes, pipes and hoses, of vulcanised rubber (excl. hard rubber), not reinforced or otherwise combined with other materials, without fittings		
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	850520	Electromagnetic couplings, clutches and brakes		
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	840120	Machinery and apparatus for isotopic separation and parts thereof, n.e.s. [Euratom]		
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	854231	Electronic integrated circuits as processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits		
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Smokeoven technology	Fish Processing	
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Transportation – Conveyor – Table – Processing	Fish Processing	

F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Electric Stunner	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Parting and Cutting Devices	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Skimming Machine	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Scaling	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Pin Bone Remover	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Forked fishbone cutter	Fish Processing

F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Deheader	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Fileting Machines	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Portion Machines	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Fishbone Remover	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Screening Table	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Fish Rinsing Brush	Fish Processing

F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Slaughter and Gutting Devices	Fish Processing	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Gutting Machines	Fish Processing	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Fish Washing Machine	Fish Processing	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Glacering	Fish Processing	Fish Processing
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Smoke Chamber	Food Processing: Smoke Chambers/Accessories	Food Processing: Smoke Chambers/Accessories
F: High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Smoke Generator	Food Processing: Smoke Chambers/Accessories	Food Processing: Smoke Chambers/Accessories

F. High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Accessories/ Smoke Trolley	Food Processing: Smoke Chambers/ Accessories
F. High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Fish Grill	Food Processing: Smoke Chambers/ Accessories
F. High-technology and other manufactures n.e.c.	Other electrical equipment, machineries and appliances for other marine industries (such as food-processing technologies and equipment for other industries n.e.c., part of oceans economy)	F5	n.c.i.	Special items and used equipment	Food Processing: Smoke Chambers/ Accessories

Note:

\*The HS 2017 codes below are used for trading products of sectors and subsectors listed herewith; however, some codes may also be used for trading products that are not part of ocean-based sectors. See HS17\_detailed description<sup>1</sup>

\*Despite efforts made to identify products HS code, it was not possible to identify product codes for all goods part of a sector. In this case the type of product is listed and the code n.c.i. (i.e. no code identified) was inscribed.

\*Sector B. Aquaculture and Hatcheries was included only to capture data on production. All products listed under this sector are found in Sector A. At present trade data collected under HS codes on marine fisheries does not distinguish between catches and aquaculture.

\*The link to the publication above provides details on the classification methodology, limitations and applications.

SECTION: SERVICES														
Sector	Subsector			Sust. Oceans Economy Codes (SOE codes)	Other SOE codes in which a CPC2.1 may be used	CPC2.1.				W/120		BPM6/EBOPS		Sust. Oceans Economy Codes (SOE codes)
	Level 1 (2nd digit OE code)	Level 2 (3rd digit OE code)	Level 3 (4th digit OE code)			CPC2.1_5-digit	CPC2.1_description	CPC2.1_detailed description	Relevance & source. Detailed description	W/120_code	W/120_description	BPM6/EBOPS_code	BPM6/EBOPS_description	
<b>G. Marine and coastal tourism</b>														
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Room or unit accommodation services for visitors, with daily housekeeping services			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Room or unit accommodation services for visitors, without daily housekeeping services			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Room or unit accommodation services for visitors, in time-share properties			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Accommodation services for visitors, in rooms for multiple occupancy			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Camp site services			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Recreational and vacation camp services			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Hotels and other accommodation		G11		Other room or unit accommodation services n.e.c.			9A	Hotels and restaurants (incl. catering)	n.c.i.		G11	
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Food and beverage service activities (eating and drinking places)		G12		Meal serving services			9A	Hotels and restaurants (incl. catering)	n.c.i.		G12	

G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Food and beverage service activities (eating and drinking places)	G12	63399	Other food serving services		9A	Hotels and restaurants (incl. catering)	n.c.i.	G12
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Food and beverage service activities (eating and drinking places)	G12	63392	Contract food services for transportation operators		9A	Hotels and restaurants (incl. catering)	n.c.i.	G12
G. Marine and coastal tourism	Hotels and restaurants (incl. catering)	Food and beverage service activities (eating and drinking places)	G12	63393	Other contract food services		9A	Hotels and restaurants (incl. catering)	n.c.i.	G12
G. Marine and coastal tourism	Travel agencies and tour operators services		G2	85540	Tour operator services		9B	Travel agencies and tour operators services	1035	G2
G. Marine and coastal tourism	Travel agencies and tour operators services		G2	85561	Tourism promotion services		9B	Travel agencies and tour operators services	1035	G2
G. Marine and coastal tourism	Travel agencies and tour operators services		G2	85562	Visitor information services		9B	Travel agencies and tour operators services	1035	G2
G. Marine and coastal tourism	Tourist guides services		G3	85550	Tourist guide services		9C	Tourist guides services	1035	G3
G. Marine and coastal tourism	Tourist guides services		G3	96620	Support services related to sports and recreation	<ul style="list-style-type: none"> <li>• This subclass includes: <ul style="list-style-type: none"> <li>• services of fishing guides;</li> <li>• services of mountain guides;</li> <li>• services of hunting guides;</li> <li>• services provided by sport judges and timekeepers</li> </ul> </li> <li>• services related to the training of sporting and entertainment animals</li> <li>• other sporting and recreation services, not elsewhere classified</li> </ul>	9C	Tourist guides services	1123	G3

G. Marine and coastal tourism	Recreational and other services	Marinas	G41	53270	Outdoor sport and recreation facilities	This subclass includes: <ul style="list-style-type: none"> <li>recreation installations, e.g., golf courses, beach installations, marinas for pleasure boats public parks and gardens, zoological and botanical gardens;</li> <li>grounds for sports generally played in open air such as football, baseball, rugby, track and field, tennis, car or bicycle races and horse race</li> </ul>	10D	Sporting and other recreational services	1123	Heritage and recreational services	G41
G. Marine and coastal tourism	Recreational and other services	Oceanarium and other ecologically preserved attractions	G42	96421	Botanical and zoological garden services		10D	Sporting and other recreational services	1123	Heritage and recreational services	G42
G. Marine and coastal tourism	Recreational and other services	Oceanarium and other ecologically preserved attractions	G42	96910	Amusement park and similar attraction services		10D	Sporting and other recreational services	1123	Heritage and recreational services	G42
G. Marine and coastal tourism	Recreational and other services	Oceanarium and other ecologically preserved attractions	G42	96990	Other recreation and amusement services n.e.c.	This subclass includes: <ul style="list-style-type: none"> <li>recreation park and beach services;</li> <li>operation of ski hills;</li> <li>operation of, and access services to ballrooms, dance halls and other recreational facilities;</li> <li>production and presentation services for: "sound and light" performances, fireworks</li> </ul>	10D	Sporting and other recreational services	1123	Heritage and recreational services	G42
G. Marine and coastal tourism	Recreational and other services	Oceanarium and other ecologically preserved attractions	G42	54270	General construction services of outdoor sport and recreation facilities	This subclass includes construction, repair, alteration and restoration services for: <ul style="list-style-type: none"> <li>recreation installations, e.g., golf courses, beach installations, marinas for pleasure boats;</li> <li>public parks and gardens, zoological and botanical gardens;</li> <li>grounds for sports generally played in open air such as football, baseball, rugby, track and field, tennis, car or bicycle races and horse races</li> </ul>	3B	General construction work for civil engineering	n.c.i.		G42
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	92912	Sports and recreation education services		5E	Other education services	1122	Education services	G43
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	96520	Sports and recreational sports facility operation services		10D	Sporting and other recreational services	1123	Heritage and recreational services	G43

G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	96590	Sports and recreational sports services, fishing	This subclass includes: • scuba-diving services; • skydiving services; • hang-gliding services	10D	100	Sporting and other recreational services	1123	Heritage and recreational services	G43
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	64133	Sightseeing, passenger water transportation services		10D	10D	Sporting and other recreational services	381	Inland waterway transport - Passenger	G43
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	85539	Reservation services for event tickets, entertainment and recreational services and other reservation services		9D	9D	Tourism and travel related services, Other	1035	Other business services n.i.e.	G43
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	95997	Cultural and recreational associations services (other than sports or games)	This subclass includes associations for the pursuit of a cultural or recreational activity	9D	9D	Tourism and travel related services, Other	1123	Heritage and recreational services	G43
G. Marine and coastal tourism	Recreational and other services	Recreational, sport and other related services	G43	73240	Leasing or rental services of leisure equipment	This subclass includes leasing, renting or hiring services concerning pleasure and leisure equipment, such as: • water sports equipment (e.g., surfboards, water-skis); • pleasure craft (canoes, sailboat and other pleasure boats); • bicycles, snow skis, ice skates; • gliders, hang gliders; • other sport equipment (e.g., golf clubs, equipment for playing field games, racquet games, etc.), saddle-horses, camping equipment, etc.	1E.d	1E.d	Rental/ Leasing Services, relating to other machinery and equipment	1033	Operating leasing services	G43
<b>H. Trade in fisheries services</b>												
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Fishing	H12	86151	Fishing services on resources owned by others		1Fg	1Fg	Services incidental to fishing	10322	Services incidental to agriculture, forestry and fishing	H12
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Fishing	H12	86153	Support services to fishing		1Fg	1Fg	Services incidental to fishing	10322	Services incidental to agriculture, forestry and fishing	H12
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Aquaculture	H13	86152	Aquaculture services on inputs owned by others		1Fg	1Fg	Services incidental to fishing	10322	Services incidental to agriculture, forestry and fishing	H13

H. Trade in fisheries services	Services incidental to fishing and aquaculture	Aquaculture	H13	86154	Support services to aquaculture		1Fg	Services incidental to fishing	10322	Services incidental to agriculture, forestry and fishing	H13
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Aquaculture	H13	86340	Specialized cleaning services	<p>This subclass includes:</p> <ul style="list-style-type: none"> <li>specialized cleaning services for reservoirs and tanks, these being parts of either industrial sites or transport equipment;</li> <li>cleaning of transportation equipment;</li> <li>sterilization of objects or premises (operating rooms);</li> <li>furnace and chimney cleaning services;</li> <li>exterior cleaning of buildings of all types;</li> <li>cleaning of fireplaces, stoves, furnaces, incinerators, boilers, ventilation ducts and exhaust units;</li> <li>cleaning of computer rooms and the like</li> </ul>	1Fg	Services incidental to fishing	1035	Other business services n.i.e.	H13
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Aquaculture	H13	73129	Leasing or rental services concerning other machinery and equipment without operator n.e.c.		1E.d	Rental/Leasing Services, relating to other machinery and equipment	1033	Operating leasing services	H13
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Other services incidental to fishing and aquaculture	H14	83117	Business process management services		1Fc	Management consulting service	10213	Business and management consulting and public relations services	H14
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Other services incidental to fishing and aquaculture	H14	83114	Marketing management consulting services	<p>This subclass includes providing advice, guidance and operational assistance concerning the marketing strategy and marketing operation of an organization. Marketing management consulting assignments may deal with one or a combination of the following:</p> <ul style="list-style-type: none"> <li>analysis and formulation of a marketing strategy</li> <li>formulation of customer service programmes, pricing, advertising and distribution channels</li> <li>sales management and sales staff training</li> <li>organization of marketing channels (sale to wholesalers or directly to retailers, direct mail, franchise, etc.), package design and other matters related to the marketing strategy and operations of an organization</li> </ul>	1Fc	Management consulting service	10213	Business and management consulting and public relations services	H14

H. Trade in fisheries services	Services incidental to fishing and aquaculture	Other services incidental to fishing and aquaculture	H14	83116	Supply chain and other management consulting services	This subclass includes: <ul style="list-style-type: none"> <li>providing advice, guidance and operational assistance concerning integrated supply chain management, i.e. a bundled product that includes inventory management, warehousing and storage and distribution services;</li> <li>providing advice, guidance and operational assistance concerning logistic management, such as:  <ul style="list-style-type: none"> <li>inventory management logistic consulting, that is keeping track of the existing inventory, determining the most effective inventory requirements for a client</li> </ul> </li> <li>distribution and transportation logistic consulting, including the processes used by a client to store, handle and move goods within an organization, to ship goods from the client to the customers</li> <li>warehousing and storage logistic consulting including the processes of receiving, storing and issuing an item</li> <li>maintenance logistic consulting</li> <li>other management consulting services, n.e.c.</li> </ul>	1Fc	Management consulting service	10213	Business and management consulting and public relations services	H14
H. Trade in fisheries services	Services incidental to fishing and aquaculture	Other services incidental to fishing and aquaculture	H14	87159	Maintenance and repair services of other equipment, fishing nets, including mending, repair or ropes, riggings, canvas and tarps, repair or reconditioning of wooden pallets, shipping drums or barrels, and similar items		11A.f	Supporting services for maritime transport	n.c.i.		H14
H. Trade in fisheries services	Fish and seafood processing and packaging		H2	88120	Fish processing	The services included in division 88 are performed on physical inputs owned by units other than the units providing the service (e.g., cooking fish prior to canning (CPC 2015, p.505).	1Fi	Services incidental to manufacturing	1	Manufacturing services on physical inputs owned by others	H2
H. Trade in fisheries services	Fish and seafood processing and packaging		H2	85400	Packaging services		1Fg	Packaging services	1	Manufacturing services on physical inputs owned by others	H2

H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Wholesale of fish and seafood	H31	61124	Wholesale trade services, except on a fee or contract basis, of fish and other seafood		4B	Wholesale trade services	1034	Trade-related services	H31
H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Wholesale of fish and seafood	H31	61224	Wholesale trade services on a fee or contract basis, of fish and other seafood		4B	Wholesale trade services	1034	Trade-related services	H31
H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Retail sale of fish and seafood	H32	62124	Non-specialized store retail trade services, of fish and other seafood		4C	Retailing services	1034	Trade-related services	H32
H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Retail sale of fish and seafood	H32	62224	Specialized store retail trade services, of fish and other seafood		4C	Retailing services	1034	Trade-related services	H32
H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Retail sale of fish and seafood	H32	62424	Other non-store retail trade services, of fish and other seafood		4C	Retailing services	1034	Trade-related services	H32
H. Trade in fisheries services	Commercialization and distribution of fish and other marine products	Retail sale of fish and seafood	H32	62524	Retail trade services on a fee or contract basis, of fish and other seafood		4C	Retailing services	1034	Trade-related services	H32
<b>I. Maritime transport and related services (excludes services specific to trade in fisheries that are related to transport)</b>											
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Passenger transportation	Cruise ships and related services	I11	64232	Coastal and transoceanic water transport services of passengers on cruise ships		11A.a	Maritime transport services, passenger transportation	311	Sea Transport - Passenger	I11
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Passenger transportation	Cruise ships and related services	I11	85523	Reservation services for cruises		11A.a	Maritime transport services, passenger transportation	1035	Other business services n.i.e.	I11





I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Freight transportation	Coastal and transoceanic freight transportation	I21	65211	Coastal and transoceanic water transport services of freight by refrigerator vessels					11A.b	Maritime transport services, freight transportation	312	Sea Transport - Freight	I21
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Freight transportation	Coastal and transoceanic freight transportation	I21	65212	Coastal and transoceanic water transport services of freight by tankers					11A.b	Maritime transport services, freight transportation	312	Sea Transport - Freight	I21
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Freight transportation	Rental of vessels/chartering, freight and other vessels n.e.c. (with crew and without)	I22	73115	Leasing or rental services concerning vessels without operator				This subclass includes leasing, rental or hiring services concerning boats, ships and hovercraft without operators, primarily designed for the conveyance of passengers and freight (exclude pleasure craft)	1E.a	Rental/Leasing services relating to ships without operators	1033	Operating leasing services	I22
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Freight transportation	Rental of vessels/chartering, freight and other vessels n.e.c. (with crew and without)	I22	66022	Rental services of freight vessels for coastal and transoceanic water transport with operator					11A.c	Maritime transport services, rental of vessels with crew	312	Sea Transport - Freight	I22
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Freight transportation	Rental of vessels/chartering, freight and other vessels n.e.c. (with crew and without)	I22	73117	Leasing or rental services concerning containers					1E.d	Rental/Leasing Services relating to other machinery and equipment	1033	Operating leasing services	I22

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Ship building	I31	88821	Ship building services	Services in Division 88 are characterized as outsourced portions of a manufacturing process or a complete outsourced manufacturing process. Since this division covers manufacturing services, the output is not owned by the unit providing this service. Therefore, the value of the services in this division is based on the service fee paid, not the value of the goods manufactured.	1Fi	Services incidental to manufacturing	1	Manufacturing services on physical inputs owned by others	I31
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Ship building	I31	88822	Pleasure and sporting boat manufacturing services	Services in Division 88 are characterized as outsourced portions of a manufacturing process or a complete outsourced manufacturing process. Since this division covers manufacturing services, the output is not owned by the unit providing this service. Therefore, the value of the services in this division is based on the service fee paid, not the value of the goods manufactured.	1Fi	Services incidental to manufacturing	1	Manufacturing services on physical inputs owned by others	I31
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	I321	87149	Maintenance and repair services of other transport equipment	This subclass includes maintenance and repair services of: • ships and floating platforms and structures; pleasure and sporting boats; railway and tramway locomotives and rolling stock; • aircraft and aircraft engines	11A.d	Maintenance and repair of vessels	2	Maintenance and repair services n.i.e.	I321
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	I321	85310	Disinfecting and exterminating services for vessels		11A.d	Maintenance and repair of vessels	1035	Other business services n.i.e.	I321
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	I322	94312	Ship-breaking and other dismantling of wrecks services		11A.d	Maintenance and repair of vessels	n.c.i.		I322

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	Maintenance and repair of machines, equipment and other hardware	I323	87154	Maintenance and repair services of medical, precision and optical instruments	This subclass includes maintenance and repair services of: <ul style="list-style-type: none"> <li>• surveying instruments; radiation detection and monitoring instruments, instruments and apparatus for measuring, checking, testing and navigating and other purposes such as aircraft engine instruments, automotive emissions testing equipment, meteorological instruments, physical, electrical and chemical properties testing and inspection equipment;</li> <li>• irradiation, electromedical and electrotherapeutic equipment such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, electromedical endoscopic equipment, irradiation apparatus;</li> <li>• orthopedic and prosthetic devices;</li> <li>• professional photographic, cinematographic and optical instruments</li> </ul>	1Fg	Services incidental to fishing	2	Maintenance and repair services n.i.e.	I323
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	Maintenance and repair of machines, equipment and hardware	I323	87156	Maintenance and repair services of machinery such as engines and turbines (except aircraft, vehicle and cycle engines), pumps and compressors, taps and valves, other		11A.f	Supporting services for maritime transport	2	Maintenance and repair services n.i.e.	I323
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Maintenance, repair and dismantling services	Maintenance and repair of machines, equipment and hardware	I323	87290	Maintenance and repair services of other goods n.e.c.		11A.f	Supporting services for maritime transport	2	Maintenance and repair services n.i.e.	I323

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Inspection and survey	I33	I321	83443	Testing and analysis services of integrated mechanical and electrical systems	This subclass includes: tests may be performed using models or mock-ups of ships, aircraft, dams, etc., testing and analysis of the mechanical and electrical characteristics of complete machinery, motors, automobiles, tools, appliances, communication equipment and other equipment incorporating mechanical and electrical components. The results of the testing and analysis generally take the form of an assessment of the performance and behavioural characteristics of the object tested.	1Fe	Technical testing and analysis services	10313	Scientific and other technical services	I33
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Shippers and other freight transport agency services	I34		67910	Freight transport agency services and other freight transport services	This subclass includes: <ul style="list-style-type: none"> <li>• ship-broker services;</li> <li>• freight brokerage services;</li> <li>• freight forwarding services (primarily transport organization or arrangement services on behalf of the shipper or consignee);</li> <li>• aircraft space brokerage services;</li> <li>• freight consolidation and break-bulk services</li> </ul>	11H.c	Freight transport agency services	311	Sea Transport – Passenger	I34
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Shippers and other freight transport agency services	I34		idem			11H.d	Services auxiliary to transport, other	idem		I34
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Wholesale and retail services for maritime activities	I35		61155	Wholesale trade services, except on a fee or contract basis, of sports goods (incl. bicycles)	This subclass includes trade services related to: <ul style="list-style-type: none"> <li>• goods of group 384 (Sports goods),</li> <li>• goods of group 494 (Pleasure and sporting boats);</li> <li>• goods of subclass 49921 (Bicycles and other cycles, not motorized)</li> <li>• goods of group 384 include, among many others, Fishing rods and other line fishing tackle; fish landing nets, etc.</li> </ul>	4B	Wholesale trade services	1034	Trade-related services	I35
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Wholesale and retail services for maritime activities	I35		61182	Wholesale trade services, except on a fee or contract basis, of other transport equipment, except bicycles	This subclass includes trade services related to: <ul style="list-style-type: none"> <li>• goods of group 493 (Ships);</li> <li>• goods of group 495 (Railway and tramway locomotives and rolling stock, and parts thereof); goods of group 496 (Aircraft and spacecraft, and parts thereof);</li> <li>• goods of group 499 (Other transport equipment and parts thereof), except of subclass 49921</li> </ul>	4B	Wholesale trade services	1034	Trade-related services	I35

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Wholesale and retail services for maritime activities	I35	61282	Wholesale trade services on a fee or contract basis, of other transport equipment, except bicycles	Wholesale trade services on a fee or contract basis, of other transport equipment, except bicycles	4B	1034	Trade-related services	I35
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Wholesale and retail services for maritime activities	I35	62255	Specialized store retail trade services, for leisure and sporting boats and sports goods, e.g. fishing gear	This subclass includes trade services related to: <ul style="list-style-type: none"> <li>goods of group 384 (Sports goods);</li> <li>goods of group 494 (Pleasure and sporting boats);</li> <li>goods of subclass 49921 (Bicycles and other cycles, not motorized)</li> <li>goods of group 384 include, among many others, Fishing rods and other line fishing tackle; fish landing nets, etc</li> </ul>	4C	1034	Trade-related services	I35
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Wholesale and retail services for maritime activities	I35	62282	Specialized store retail trade services of miscellaneous consumer goods n.e.c.	This subclass includes trade services related to: <ul style="list-style-type: none"> <li>goods of group 493 (Ships);</li> <li>goods of group 495 (Railway and tramway locomotives and rolling stock, and parts thereof); goods of group 496 (Aircraft and spacecraft, and parts thereof);</li> <li>goods of group 499 (Other transport equipment and parts thereof), except of subclass 49921</li> </ul>	4C	1034	Trade-related services	I35
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Advanced sensing, communications and data management services	I36	83421	Surface surveying services including transit, photogrammetric and hydrographic surveying, collection of data by satellite	Hydrographic surveying related to: <ul style="list-style-type: none"> <li>W/120 code correspond to the used in the maritime industry (ITU source) see also: <a href="https://oceanservice.noaa.gov/navigation/hydro/">https://oceanservice.noaa.gov/navigation/hydro/</a></li> </ul>	1F.m	10313	Scientific and other technical services	I36
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Advanced sensing, communications and data management services	I36	84140	Private network services	This subclass includes provision of wired or wireless telecommunication links between specified points for the exclusive use of the client.  This subclass does not include: provision of private links by a telecommunication carrier to a telecommunication service provider, cf. 84110	2C.b	91	Telecommunications services	I36

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Advanced sensing, communications and data management services	I36	J2	83142	IT design and development services for networks and systems	<p>This subclass includes:</p> <ul style="list-style-type: none"> <li>designing, developing and implementing customer's networks such as intranets, extranets and virtual private networks;</li> <li>network security design and development services, i.e. designing, developing and implementing software, hardware and procedures to control access to data and programs and to allow for the safe exchange of information over a network;</li> <li>combined service of assessing an organization's computer requirements, advising on hardware and software acquisitions, developing system specification and putting the new system in place</li> <li>computer systems integration services, i.e. an analysis of the client's current computer system, present and future computing requirements, the purchase of new equipment and software, and the integration of the new and old systems components to create a new integrated system</li> </ul> <p>This subclass does not include:</p> <ul style="list-style-type: none"> <li>services of day-to-day management of the client's network, cf. 83161</li> </ul>	1B.b	Software implementation services	922	Computer services - Other computer services	I36
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Advanced sensing, communications and data management services	I36	J2	67990	Other supporting transport services n.e.c.	<p>This subclass includes:</p> <ul style="list-style-type: none"> <li>radio navigational aid locating services, such as GPS (global positioning system) provision;</li> <li>type rating services (aircraft-specific permits for flying a particular type of plane);</li> <li>liquefaction and regasification of natural gas for transportation</li> </ul>	11A.f	Supporting services for maritime transport	311	Sea Transport - Passenger	I36
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Advanced sensing, communications and data management services	I36	J2	83990	Other professional, technical and business services, n.e.c.	<p>This subclass includes:</p> <ul style="list-style-type: none"> <li>compilation services of facts and information (i.e. databases), other than mailing lists;</li> <li>drafting services (detailed layouts, drawings, plans and illustrations of buildings, structures, systems or components from engineering and architectural specifications, done by architectural draftsmen or engineering technicians</li> </ul>	1B.d	Data base services	1035	Other business services n.i.e.	I36

I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Other services not elsewhere classified (labour supply services, training not including post-secondary and university levels, etc)	137	92919	Training certificates and ship licences	Code to include: appointment and training of port security personnel, training of security officers. The code subclass includes: <ul style="list-style-type: none"> <li>• training for flying certificates and ship licences;</li> <li>• training for car, bus, lorry and motorcycle driving licences;</li> <li>• computer training services;</li> <li>• management training services;</li> <li>• services provided by music camps, science camps, computer camps and other instructional camps, except for sports</li> <li>• education services not definable by level</li> </ul>	1Fk	Placement and supply services of personnel	1122	Education services	137
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Other services not elsewhere classified (labour supply services, training not including post-secondary and university levels, etc)	137	85122	Temporary staffing services		5E	Other education services	1035	Other business services n.i.e.	137
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Other services not elsewhere classified (labour supply services, training not including post-secondary and university levels, etc)	137	92320	Lower secondary education services, technical and vocational		1Fg	Services incidental to fishing	1122	Education services	137
I. Maritime transport and related services (excludes services specific to trade in fisheries that are not related to transport)	Auxiliary services to maritime transport	Other services not elsewhere classified (labour supply services, training not including post-secondary and university levels, etc)	137	67590	Other supporting services for water transport directly connected with vessel operations	This subclass includes: <ul style="list-style-type: none"> <li>• water transport supporting services directly connected with vessel operations not elsewhere classified, and not directly connected with vessel operations such as ice breaking, vessel registration, vessel laying-up and storage services, etc.</li> </ul> This subclass does not include: <ul style="list-style-type: none"> <li>• cleaning services for vessels, including removal of contamination by fuel and oil, cf. 853</li> <li>• disinfecting and exterminating services for vessels, cf. 85310</li> <li>• lifboat services, marine fireboat services and other marine search and rescue services:</li> </ul>	11A.f	Supporting services for maritime transport	313	Sea Transport - Other	137





J. Port services, related infrastructure services and logistical services	Information technology, and other automated services for ports facilities		J2	84150	Data transmission services, provision of satellite facilities, wired or wireless facilities and services specifically designed for the efficient transmission of data	This subclass includes provision of access to wired or wireless facilities and services specifically designed for the efficient transmission of data on a pay-as-you-use basis. This subclass does not include provision of wired or wireless telecommunication links between specified points for the exclusive use of the client, cf. 84140	2C.b	Packet-switched data transmission services	91	Telecom- munications services	J2
J. Port services, related infrastructure services and logistical services	Information technology, and other automated services for ports facilities		J2	83141	IT design and development services for applications	This subclass includes services of designing the structure and/or writing the computer code necessary to create and/or implement a software application, such as: <ul style="list-style-type: none"> <li>designing the structure and content of a web page and/or writing the computer code necessary to create and implement a web page</li> <li>designing the structure and content of a database and/or writing the computer code necessary to create and implement a database</li> <li>designing the structure and writing the computer code necessary to design and develop a custom software application</li> <li>customization and integration, adapting (modifying, configuring, etc.) and installing an existing application so that it is functional within the clients' information system environment</li> </ul>	1B.b	Software implementation services	922	Computer services - Other computer services	J2
J. Port services, related infrastructure services and logistical services	Information technology, and other automated services for ports facilities		J2	83115	Operations management consulting services	This subclass includes providing advice, guidance and operational assistance concerning: <ul style="list-style-type: none"> <li>improvements to systems and procedures;</li> <li>plant safety, security and protection</li> <li>improvements to office and service operations, such as: <ul style="list-style-type: none"> <li>office layout</li> <li>workflow planning</li> <li>work standards</li> </ul> </li> <li>office automation, such as the selection and installation of automated systems</li> <li>product development, quality assurance and quality management</li> <li>services provided by agronomists and agricultural economists</li> </ul>	1Fc	Management consulting service	10213	Business and management consulting and public relations services	J2

J. Port services, related infrastructure services and logistical services	Information technology, and other automated services for ports facilities	J2	83161	Network management services	This subclass includes: • managing and monitoring communication networks and connected hardware to diagnose networking problems and gather capacity and usage statistics for the administration and fine-tuning of network traffic. These services also remotely manage security systems or provide security-related services	1B.b	922	Computer services - Other computer services	J2
J. Port services, related infrastructure services and logistical services	Warehousing and storage	J3	67210	Refrigerated storage services		11H.b	311	Sea Transport - Passenger	J3
J. Port services, related infrastructure services and logistical services	Warehousing and storage	J3	67220	Bulk liquid or gas storage services	This subclass includes bulk storage and warehousing services for liquids and gases, including oil and oil products, wine and the like	11H.b	311	Sea Transport - Passenger	J3
J. Port services, related infrastructure services and logistical services	Warehousing and storage	J3	67290	Other storage and warehousing services	This aim to include: distribution centre services and material handling and equipment services such as container station depot. (UNCTAD 2005). The subclass code includes: • storage services of grains; • other storage or warehousing services	11H.b	311	Sea Transport - Passenger	J3
J. Port services, related infrastructure services and logistical services	Navigational services on coastal and transoceanic waters	J4	65219	Towing and pushing services on the high seas and on coastal waters, towing services for oil rigs, floating cranes, dredging vessels and buoys, as well as ships' hulls and incomplete vessels, on coastal waters or the open sea		11A.c	312	Sea Transport - Freight	J4
J. Port services, related infrastructure services and logistical services	Navigational services on coastal and transoceanic waters	J4	67531	Vessel salvage and refloating services on coastal and transoceanic waters		11A.c	313	Sea Transport - Other	J4

J. Port services, related infrastructure services and logistical services	Navigational services on coastal and transoceanic waters	67521	Pilotage and berthing services on coastal and transoceanic waters	11A.f	313	J4	Sea Transport – Other	J4
J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction	54232	Harbour bottoms and harbour channels, breakwaters, quays, piers, jetties, docks, wharves and similar structures	3B	5	J5	Construction	J5
J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction	53234	Irrigation and flood control waterworks	3B	5	J5	Construction	J5

This subclass includes construction, repair, alteration and restoration services for:

- harbour bottoms and harbour channels, breakwaters, quays, piers, jetties, docks, wharves and similar structures
- riverworks and canal construction for water transport traffic
- locks, floodgates, sluices, lifts, dry docks, slipways, barrages and other hydromechanical structures
- dredging services, rock and silt removal and other water-associated construction services
- underwater work (by divers, frogmen or other techniques) and various hydraulic engineering services

This subclass includes irrigation and flood control waterworks. This subclass does not include waterways for the purpose of water supply, cf. 53231

J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction		J5	83327	Engineering services for storm water management, drainage and detention systems including dams used primarily for flood control	This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for water treatment and distribution systems, sewer systems, sewage treatment plants and drainage projects.  This subclass includes: <ul style="list-style-type: none"> <li>• engineering services related to systems for the collection, distribution, treatment, and disposal of water such as:</li> <li>• drinking water distribution systems, pumping stations, reservoirs, water storage facilities, water transmission and distribution mains including dams used primarily for local drinking water distribution and desalination plants;</li> <li>• systems for storm water management, drainage and detention systems including dams used primarily for flood control;</li> <li>• systems for the collection, treatment, and disposal of waste water, except industrial waste water;</li> <li>• irrigation systems and water pipelines including dams primarily used for irrigation</li> </ul>	3B	General construction work for civil engineering	10312	Engineering services	J5
J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction		J5	53233	Civil engineering works - Dams, including embankments for coastal and other waterside areas		3B	General construction work for civil engineering	5	Construction	J5
J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction		J5	54233	General construction services of dams	This subclass includes construction, repair, alteration and restoration services for: <ul style="list-style-type: none"> <li>• embankments for coastal and other waterside areas;</li> <li>• dams and similar water-retaining structures</li> </ul>	3B	General construction work for civil engineering	5	Construction	J5
J. Port services, related infrastructure services and logistical services	Marine-related engineering and construction		J5	54234	General construction services of irrigation and flood control waterworks	This subclass includes construction, repair, alteration and restoration services for irrigation and flood control waterworks.  This subclass does not include construction services for waterways for the purpose of water supply, cf. 54231	3A	Construction and related engineering services, other	5	Construction	J5
<b>K. Coastal and marine environmental services</b>											
K. Coastal and marine environmental services	Sewage services		K1	94110	Sewage and sewage treatment services		6A	Sewage services	10321	Waste treatment and de-pollution	K1





K. Coastal and marine environmental services	Waste treatment and disposal services located on the coast	K2	94339	Other non-hazardous waste treatment and disposal services of chemical or biological reduction of agricultural waste and similar treatment		6B	Refuse disposal services	10321	Waste treatment and de-pollution	K2
K. Coastal and marine environmental services	Waste treatment and disposal services located on the coast	K2	94239	General waste collection services, other		6B	Refuse disposal services	10321	Waste treatment and de-pollution	K2
K. Coastal and marine environmental services	Waste treatment and disposal services located on the coast	K2	53230	Other civil engineering works	This subclass includes: <ul style="list-style-type: none"> <li>waste dumps and waste incinerators;</li> <li>plants for treating and processing of nuclear material;</li> <li>military engineering works, e.g., forts, blockhouses, bunkers, firing ranges, military testing centres, etc.;</li> <li>satellite launching sites;</li> <li>other civil engineering works, n.e.c.</li> </ul>	3B	General construction work for civil engineering	5	Construction	K2
K. Coastal and marine environmental services	Waste treatment and disposal services located on the coast	K2	83326	Engineering services for waste management projects (hazardous and non-hazardous)		1A.f	Professional services, integrated engineering services	10312	Engineering services	K2
K. Coastal and marine environmental services	Waste treatment and disposal services located on the coast	K2	89410	Metal waste and scrap recovery (recycling) services, on a fee or contract basis	This aim to include ship recycling and other. The subclass code includes processing services of metal waste and scrap and of metal articles, whether or not used, into secondary raw material. Typical input consists of waste and scrap being sorted or unsorted but always unfit for further direct use in an industrial process, whereas the output is made fit for further processing and is to be considered then as an intermediate good. A process is required, either mechanical or chemical. Examples are: <ul style="list-style-type: none"> <li>mechanical crushing of metal waste such as used cars, washing machines, bikes, etc., with subsequent sorting and separation</li> <li>mechanical reduction of large iron pieces such as railway wagons</li> <li>stripping of used goods such as cars in order to obtain reusable parts</li> <li>stripping of used goods such as cars or refrigerators to strip them of harmful waste (oil, cooling liquid, fuel, etc.)</li> </ul>	6D	Environmental services, Other	10321	Waste treatment and de-pollution	K2

K. Coastal and marine environmental services	Containment, control and monitoring services and other site remediation services n.e.c.		K3	94412	Site remediation and clean-up services, surface water		6D	Environmental services, Other	10321	Waste treatment and de-pollution	K3
K. Coastal and marine environmental services	Containment, control and monitoring services and other site remediation services n.e.c.		K3	94420	Containment, control and monitoring services and other site remediation services n.e.c.		6D	Environmental services, Other	10321	Waste treatment and de-pollution	K3
K. Coastal and marine environmental services	Containment, control and monitoring services and other site remediation services n.e.c.		K3	94490	Environmental emergency response services and other remediation services		6D	Environmental services, Other	10321	Waste treatment and de-pollution	K3
K. Coastal and marine environmental services	Coastal and oceans habitat protection, preservation, restoration		K4	96422	Nature reserve services including wildlife preservation services		6D	Environmental services, Other	1123	Heritage and recreational services	K4
K. Coastal and marine environmental services	Coastal and oceans habitat protection, preservation, restoration		K4	83931	Environmental consulting services		6D	Environmental services, Other	10313	Scientific and other technical services	K4





### L. Marine research and development and related services

L. Marine research and development and related services	Research and development services and related education	Research and development services for the fisheries sector and aquaculture	L12	81126	Applied research services in agricultural sciences	This subclass includes basic research services related to agricultural techniques, fruit culture, forestry, stock breeding, fisheries, etc.	1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L12
L. Marine research and development and related services	Research and development services and related education	Research and development services for the fisheries sector and aquaculture	L12	81136	Experimental development services in agricultural sciences		1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L12
L. Marine research and development and related services	Research and development services and related education	Research and development services for industrial processes and manufacturing	L13	81124	Applied research services in engineering and technology		1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L13
L. Marine research and development and related services	Research and development services and related education	Research and development services for industrial processes and manufacturing	L13	81134	Experimental development services in engineering and technology		1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L13
L. Marine research and development and related services	Research and development services and related education	Research and development services in biotechnology, medical sciences and pharmacy	L14	81123	Applied research services in biotechnology	For relevance of the sector, see for example Swiss Journal <a href="https://www.ndpi.com/journal/marinedrugs">https://www.ndpi.com/journal/marinedrugs</a>	1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L14
L. Marine research and development and related services	Research and development services and related education	Research and development services in biotechnology, medical sciences and pharmacy	L14	81133	Experimental development services in biotechnology		1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L14

L. Marine research and development and related services	Research and development services and related education	Research and development services in biotechnology, medical sciences and pharmacy	L14	81125	Applied research services in medical sciences and pharmacy					1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L14
L. Marine research and development and related services	Research and development services and related education	Research and development services in biotechnology, medical sciences and pharmacy	L14	81135	Experimental development services in medical sciences and pharmacy					1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L14
L. Marine research and development and related services	Research and development services and related education	Education on marine-related disciplines	L15	92420	Post-secondary non-tertiary education services, technical and vocational					5C	Higher education services	1122	Education services	L15
L. Marine research and development and related services	Interdisciplinary research and development services on environment, oceanography and the like		L2	81302	Interdisciplinary applied research services					1C.c	Inter-disciplinary R&D services	10111	Provision of customized and non-customized research and development services	L2
L. Marine research and development and related services	Interdisciplinary research and development services on environment, oceanography and the like		L2	81303	Interdisciplinary experimental development services					1C.c	Inter-disciplinary R&D services	10111	Provision of customized and non-customized research and development services	L2
L. Marine research and development and related services	Interdisciplinary research and development services on environment, oceanography and the like		L2	81129	Applied research services related to the environment and other natural sciences					1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L2
L. Marine research and development and related services	Interdisciplinary research and development services on environment, oceanography and the like		L2	81139	Experimental development research services related to the environment and other natural sciences					1C.a	R&D services on natural sciences	10111	Provision of customized and non-customized research and development services	L2

L. Marine research and development and related services	Interdisciplinary research and development services on environment, oceanography and the like	L2	81400	Research and development originals which can be protected and licensed as industrial property, trade secrets, patents, etc.		1C.a	10112	R&D services on natural sciences	10112	Sale of proprietary rights arising from research and development	L2
L. Marine research and development and related services	Technical testing and analysis services	L3	83441	Composition and purity testing and analysis services	This subclass includes: <ul style="list-style-type: none"> <li>• testing and analysis of the chemical and biological properties of materials such as air, water, waste (municipal and industrial), fuels, metal, soil, minerals, food and chemicals</li> <li>• testing and analysis in related scientific fields such as microbiology, biochemistry, bacteriology, etc.</li> </ul>	1Fe	10313	Technical testing and analysis serv.	10313	Scientific and other technical services	L3
L. Marine research and development and related services	Technical testing and analysis services	L3	83442	Testing and analysis services of physical properties	This subclass includes: <ul style="list-style-type: none"> <li>• providing advice, guidance and operational assistance concerning: <ul style="list-style-type: none"> <li>• improvements to systems and procedures</li> <li>• improvements to office and service operations, such as: <ul style="list-style-type: none"> <li>• office layout</li> <li>• workflow planning</li> <li>• work standards</li> </ul> </li> <li>• office automation, such as the selection and installation of automated systems</li> <li>• product development, quality assurance and quality management</li> <li>• plant safety, security and protection</li> <li>• services provided by agronomists and agricultural economists</li> </ul> </li> </ul>	1Fe	10313	Technical testing and analysis serv.	10313	Scientific and other technical services	L3
L. Marine research and development and related services	Technical testing and analysis services	L3	83449	Other technical testing and analysis services	This subclass includes: <ul style="list-style-type: none"> <li>• testing and analysis of a technical or scientific nature that does not alter the object being tested – certification of ships, aircraft, dams, etc.;</li> <li>• radiographic, magnetic, and ultrasonic testing of machine parts and structures in order to identify defects. These tests are often conducted on site.</li> <li>• certification and authentication of works of art</li> </ul>	1Fe	10313	Technical testing and analysis serv.	10313	Scientific and other technical services	L3

L. Marine research and development and related services	Scientific and technical consulting services	L4	83310	Engineering advisory services	<p>This subclass includes:</p> <ul style="list-style-type: none"> <li>provision of advice to clients concerning engineering principles and methods, when performed independently of an engineering project, including policy analysis, regulatory studies and audits;</li> <li>provision of testimony by a witness who, by virtue of experience, training, skill or knowledge of engineering, is recognized as being qualified to render an informed opinion on such matters;</li> <li>engineering investigation of a failed engineered system or structure to determine causal factors</li> </ul>	1A.e	Engineering services	10312	Engineering services	L4
L. Marine research and development and related services	Scientific and technical consulting services	L4	83329	Engineering services related to systems, processes, facilities or products not elsewhere classified including the provision of designs, plans and studies related to them	<p>This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for projects not elsewhere classified.</p> <p>This subclass includes:</p> <ul style="list-style-type: none"> <li>engineering services related to: outdoor sport and recreation facilities, natural gas and steam distribution projects, other utility projects n.e.c.;</li> <li>engineering services related to systems, processes, facilities or products not elsewhere classified including the provision of designs, plans and studies related to them</li> </ul>	1A.e	Engineering services	10312	Engineering services	L4
L. Marine research and development and related services	Scientific and technical consulting services	L4	83411	Geophysical consulting services for provision of advice, guidance and operational assistance		1C.a	R&D services on natural sciences	10323	Services incidental to mining, and oil and gas extraction	L4
L. Marine research and development and related services	Scientific and technical consulting services	L4	83939	Other scientific and technical consulting services		1F.m	Related scientific and technical consulting services	10313	Scientific and other technical services	L4

SECTION: ENERGY														
Sector	Subsector			Sust. Oceans Economy Codes (OE codes)	CPC 2.1.			W/120		Harmonized System		BPM6/EBOPS		
	Level 1 (2nd digit of OE code)	Level 2	Level 3		CPC2.1_5digit	CPC2.1_5digit description	CPC2.1_Detailed description	W/120_code	W/120_description	HS17_6dig	HS17_description	HS17_detailed description	BPM6/EBOPS_code	BPM6/EBOPS_description
M. Ocean energy and renewable energy	Offshore wind energy			M1	83324	Engineering services for power projects	This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for electricity generation, transmission and distribution projects.  This subclass includes: <ul style="list-style-type: none"> <li>• engineering services related to facilities that generate electrical power from: <ul style="list-style-type: none"> <li>• coal and other fossil-fuel energy such as oil and gas</li> <li>• nuclear energy</li> <li>• the energy in falling water</li> <li>• other energy, such as solar power, wind power, geothermal power</li> </ul> </li> <li>• including cogeneration facilities</li> <li>• engineering services related to overhead or underground electrical power transmission and distribution lines</li> </ul>	1Fj	Services incidental to energy distribution	271600	Electrical energy	Wind power	n.c.i	
M. Ocean energy and renewable energy	Tidal power		M2	83324	Engineering services for power projects	This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for electricity generation, transmission and distribution projects.  This subclass includes: <ul style="list-style-type: none"> <li>• engineering services related to facilities that generate electrical power from: <ul style="list-style-type: none"> <li>• coal and other fossil-fuel energy such as oil and gas</li> <li>• nuclear energy</li> <li>• the energy in falling water</li> <li>• other energy, such as solar power, wind power, geothermal power</li> </ul> </li> <li>• including cogeneration facilities</li> <li>• engineering services related to overhead or underground electrical power transmission and distribution lines</li> </ul>	1Fj	Services incidental to energy distribution	271600	Electrical energy	Other energy, tidal	n.c.i		

M. Ocean energy and renewable energy	Wave power	M3	83324	Engineering services for power projects	<p>This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for electricity generation, transmission and distribution projects.</p> <p>This subclass includes:</p> <ul style="list-style-type: none"> <li>• engineering services related to facilities that generate electrical power from: <ul style="list-style-type: none"> <li>• coal and other fossil-fuel energy such as oil and gas</li> <li>• nuclear energy</li> <li>• the energy in falling water</li> <li>• other energy, such as solar power, wind power, geothermal power including cogeneration facilities</li> <li>• engineering services related to overhead or underground electrical power transmission and distribution lines</li> </ul> </li> </ul>	1Fj	Services incidental to energy distribution	271600	Electrical energy	Other energy, wave	n.c.i	
M. Ocean energy and renewable energy	Submarine geothermal energy	M4	83324	Engineering services for power projects	<p>This subclass includes the application of physical laws and principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems for electricity generation, transmission and distribution projects.</p> <p>This subclass includes:</p> <ul style="list-style-type: none"> <li>• engineering services related to facilities that generate electrical power from: <ul style="list-style-type: none"> <li>• coal and other fossil-fuel energy such as oil and gas</li> <li>• nuclear energy</li> <li>• the energy in falling water</li> <li>• other energy, such as solar power, wind power, geothermal power including cogeneration facilities</li> <li>• engineering services related to overhead or underground electrical power transmission and distribution lines</li> </ul> </li> </ul>	1Fj	Services incidental to energy distribution	271600	Electrical energy	Geothermal power including cogeneration facilities	n.c.i	
M. Ocean energy and renewable energy	Chemical potential of seawater	M5	17100	Electrical energy		1Fj	Services incidental to energy distribution	271600	Electrical energy	Electrical energy	n.c.i	
M. Ocean energy and renewable energy	Marine biomass-based biofuels	M6	35491	Liquid biofuels derived from biomass and used in diesel engines		1Fj	Services incidental to energy distribution	382600	Biodiesel and mixtures thereof, not containing or containing less than 70 % by weight of petroleum oils or oils obtained from bituminous minerals	Liquid biofuels derived from biomass and used in diesel engines	n.c.i	
M. Ocean energy and renewable energy	Power plants and projects	M7	54262	General construction services of power plants		3B	General construction work for civil engineering				5	Construction







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