**Ontology for Global Record of Stocks and Fisheries**

**Competency questions – Draft, Oct 2015**

|  |  |
| --- | --- |
| State of Marine Resources | REQUIRES |
| List of marine resources/Stock per country |  |
| Highly migratory stocks in the area | - Identify the element in the factsheet xml to extract the value  - Evolve the ontology to include migratory concept  - Enrich FLOD with migratory stocks data |
| Shared stock |  |
| 5 most economically important stocks | - Identify economical indicator  - Identify the element in the document to extract the value of the indicator  - Evolve the ontology to include economical indicator  - Enrich FLOD with economical indicator |
| 5 historically important stocks | - define historically important  - identify the access to historically important stocks  - map species from statbase records to WIOFISH and FIRMS |
| Emerging stock (stock targeted by Exploratory fisheries) | - identify the element in the factsheet xml to extract the value  - Evolve the ontology to include fisheries concept  - Enrich FLOD with migratory stocks data |
| All the marine resources with a certain EXPLOITATION STATE (Uncertain, Underexploited, Overexploited, Depleted, etc.) | - Identify the element to extract the value  - Evolve the ontology to include exploitation concept  - Enrich FLOD with migratory stocks data |
| All the Marine resource targeted by a specific fishing technique | * How to link WIOFish targeted species with the FIRMS fact sheets for a given fishing technique. |
| Stocks with formal management plan | - Identify the element to extract the value  - Evolve the ontology to include management plan concept  - Enrich FLOD with migratory stocks data |
| Stocks with management measures in act | - Identify the element to extract the value  - Evolve the ontology to include management plan concept  - Enrich FLOD with migratory stocks data |
| Unmanaged stocks | ??? |
| Stocks for which anassessment exists (better if distinguished) | ??? |
| Stocks targeted by the industrial fleet / artisanal – Foreign/national | - Identify the element to extract the value  - Evolve the ontology to include type of fishery  - Enrich FLOD with migratory stocks data |

|  |  |
| --- | --- |
| Status of Marine Species | REQUIRES |
| List of species in west indian ocean (possibly per country, per taxonomic group or per eco-region if available) | - identify the source of eco-region  - Evolve the ontology to include type of fishery  - Enrich FLOD with fishery type data |
| Highly migratory species | - Identify the element to extract the value  - Evolve the ontology to migratory concept  - Enrich FLOD with migratory stocks data |
| Marine Protected Areas | - Identify the element to extract the value  - Evolve the ontology to inclide MPA concept  - Enrich FLOD with MPAs |
| Threatened species | - Identify the element to extract the value  - Evolve the ontology to include species state  - Enrich FLOD with species state |
| Protected species in the area |  |
| List of species with a certain IUCN status (in the region or per country) |  |
| Specie distribution maps |  |
| Species of interest for the fishery sector |  |

|  |  |
| --- | --- |
| Fisheries Management | REQUIRES |
| management plan present in the area or per country | - Identify the element to extract the value  - Evolve the ontology to management plan concept  - Enrich FLOD with management plan per fishery |
| management measures in act (area/country) | - Identify the element to extract the value  - Evolve the ontology to management measure concept  - Enrich FLOD with management measure per fishery |
| management measures in act for industrial fleet |  |
| resources representing management units | - Identify the element to extract the value  - Evolve the ontology to management plan concept  - Enrich FLOD with management plan per fishery |
| Unmanaged stocks |  |
| RFMOs present in the area and related list of managed stocks | - Identify the element to extract the value  - Evolve the ontology to RFMO concept  - Enrich FLOD with RFMO per fishery |
| National management authorities | - Identify the element to extract the value  - Evolve the ontology to National mgmt. authority concept  - Enrich FLOD with RFMO per fishery |
| Compliance measures |  |
| Co-managed resources and countries involved |  |
| Banned fisheries | - Identify the element to extract the value  - Evolve the ontology to Banned Fishery concept  - Enrich FLOD with banned fishery |