

CWP

Coordinating Working Party on Fishery Statistics

Definitions and concepts agreed at FIRMS FSC12 with relevance to CWP

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CWP

Outline

- Definitions for [Maritime area type](#)
- Definitions for the [jurisdictional distribution of fish stocks](#)
- Global Tuna Atlas contribution to the reference harmonization framework
 - Concept of fishing fleet
 - Specifications for data exchange format

Maritime area types terms and definitions

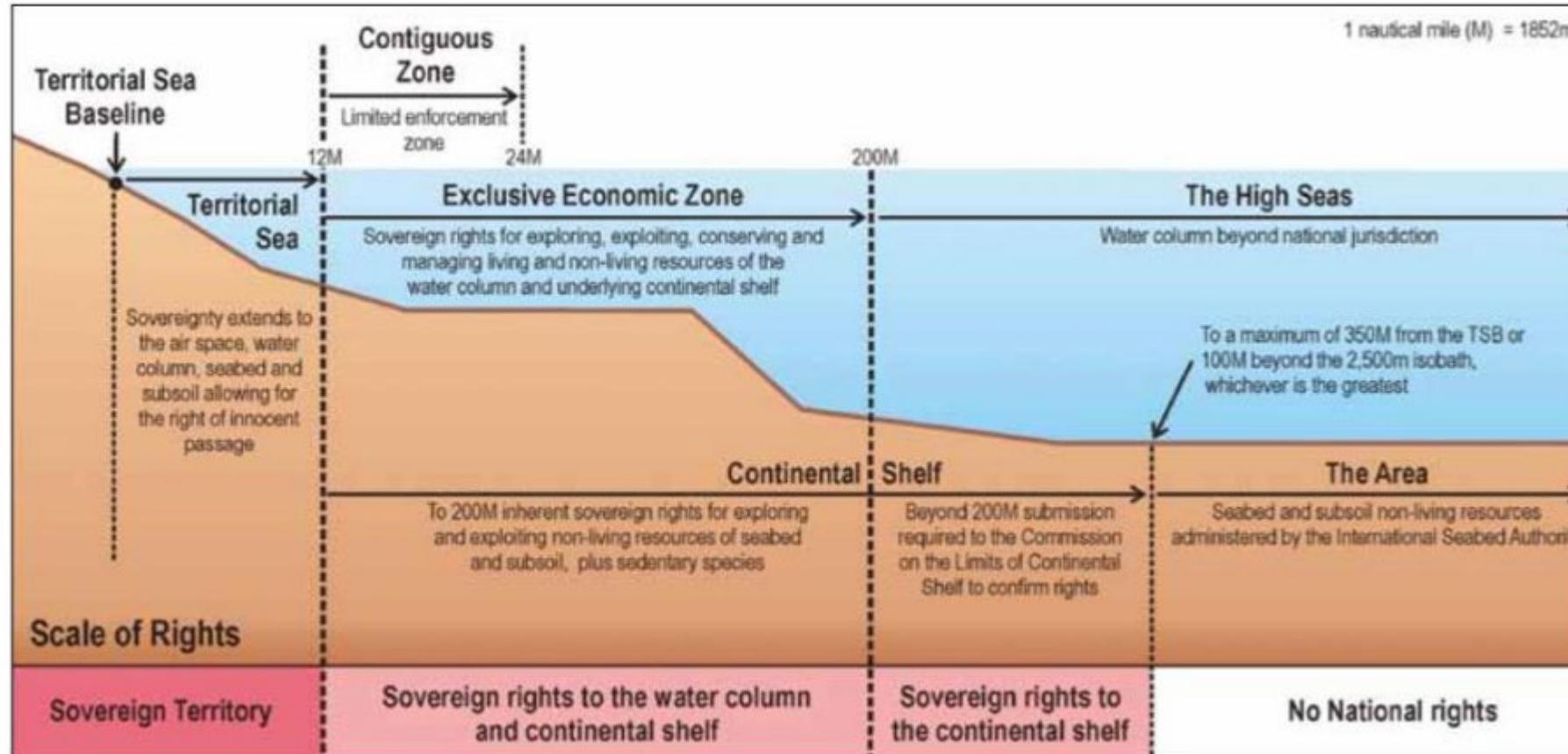


Figure 1. Diagram of maritime zones and jurisdictional boundaries. (Source: Geoscience Australia)

https://www.unep-wcmc.org/system/dataset_file_fields/files/000/000/446/original/ABNJ_Institutional_Arrangements_final_for_publication_300517.pdf?1496144106

Maritime area types terms and definitions

- Maritime area type
 - "Typology of maritime areas according to the type of rights and jurisdiction exerted by States in or over these areas"
- High Seas
 - "All parts of the sea that are not included within the exclusive economic zone, in the territorial sea or in the internal waters of a State, or in the archipelagic waters of an archipelagic State" ([UNCLOS](#))
- National waters
 - "The waters under the sovereignty or National jurisdiction* of a coastal State (internal waters, territorial sea, archipelagic waters, [continental shelf](#), exclusive economic zone)**"
- EEZ
 - "Exclusive Economic Zone 200M from the territorial sea baseline and adjacent to the 12M territorial sea" ([UNCLOS](#))
- Territorial sea
 - "The zone of coastal waters extending at most 12 nautical miles from the baseline (usually the mean low-water mark) of a coastal state ([UNCLOS](#))"
- Archipelagic zone
 - "The waters enclosed by the archipelagic baselines drawn by an archipelagic State, upon which that State exerts its sovereignty, which extends to the air space and to the bed and subsoil and their resources ([UNCLOS](#))"
- National jurisdiction area
 - "All waters under National jurisdiction. Under [UNCLOS](#) with regards to the sea, National jurisdiction includes internal waters, the territorial sea, archipelagic waters of an archipelagic State, the continental shelf, the 200 nautical mile Exclusive Economic Zone (EEZ)."

Maritime area types terms and definitions

- National jurisdiction area • National jurisdiction includes internal waters,¹⁵ the territorial sea,¹⁶ archipelagic waters of an archipelagic State,¹⁷ the continental shelf, the 200 nautical mile Exclusive Economic Zone (EEZ).^{18 and 19} Where the continental shelf extends beyond the 200 nautical mile EEZ limit, States may submit extended continental shelf claims to the Commission on the Limits of the Continental Shelf (CLCS) established under UNCLOS.²⁰

¹⁵ 'internal' waters on the landward side, Article 8 UNCLOS

¹⁶ up to a limit not exceeding 12 nautical miles (M) from the territorial sea baseline, Article 2 UNCLOS

¹⁷ Article 49 UNCLOS

¹⁸ Part VI UNCLOS

¹⁹ 200 M from the territorial sea baseline and adjacent to the 12 M territorial sea, Part V UNCLOS

²⁰ Article 76 UNCLOS

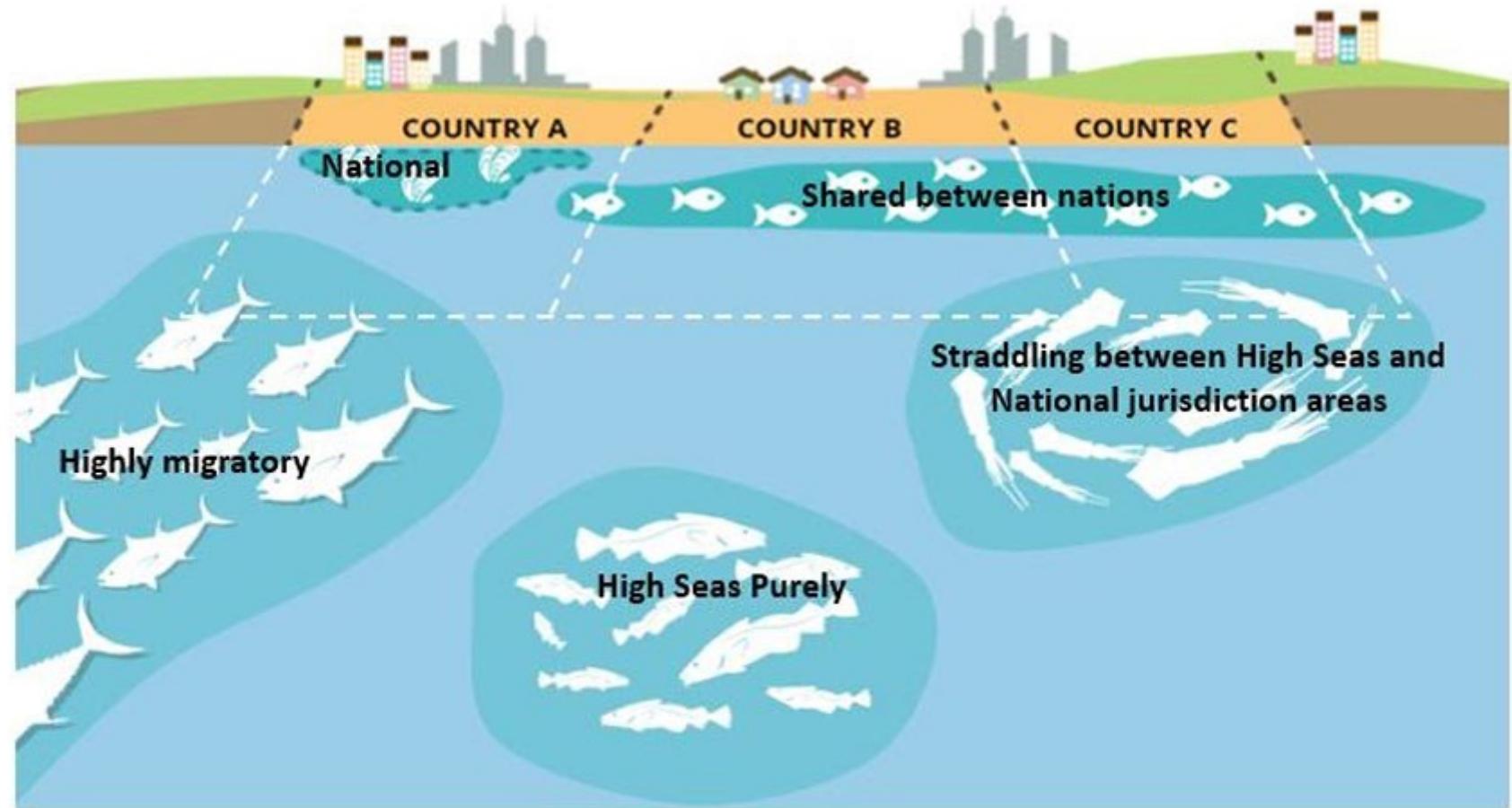
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https://www.unep-wcmc.org/system/dataset_file_fields/files/000/000/446/original/ABNJ_Institutional_Arrangements_final_for_publication_300517.pdf?1496144106

Jurisdiction Distribution and Marine area types terms and definitions adopted for FIRMS reporting.

Jurisdictional Distribution of fish stocks

- National
- Shared between nations
- Highly migratory
- High Seas purely
- Straddling between High Seas and National jurisdiction areas



Jurisdiction Distribution map. Source: FIRMS FSC12 elaboration based on the FAO, 2020. eLearning course on SDG14.4.1. e-learning Academy.

Jurisdiction Distribution and Marine area types terms and definitions adopted for FIRMS reporting.

Jurisdictional Distribution of fish stocks

- National
- Shared between nations
- Highly migratory
- High Seas purely
- Straddling between High Seas and National jurisdiction areas

- "Jurisdictional qualifier" (e.g. "national", "shared", "highly migratory", "high seas") of the marine resource or fish stock that describes to which extent and where its spatial distribution overlaps one or more maritime jurisdiction."
- "Marine resource whose distribution is exclusively within [National Jurisdiction Areas*](#)."
- "Marine resource whose distribution overlaps the [National Jurisdiction Areas*](#) of two or more adjacent nations."
- "Marine Resource capable of migrating relatively long distances, which is likely to occur both within [National Jurisdiction Areas*](#) and High Seas. These are technically straddling stocks but given their peculiar characteristics they are often managed by specific management bodies, and are here kept as a separate category."
- "Marine resource purely in Areas Beyond National Jurisdiction"
- "Marine Resource whose distribution overlaps [National Jurisdiction Areas*](#) and Areas Beyond National Jurisdiction".

Global Tuna Atlas contribution to the reference harmonization

Proposed data exchange format:

- a data structure definition
- a series of pre-agreed concepts
- a container format for digital data exchange (CSV-based)

Column	Type	Definition	Target values
fishingfleet	string	Code of the fishing fleet	ISO3 code (uppercase), extended with ad hoc codes decided within the Tuna atlas working group.
gear	string	Code of the fishing gear	ISSCFG code
time_start	string	ISO 8601 format (YYYY-MM-DD)	Value should be lower than time_end
time_end	string	ISO 8601 format (YYYY-MM-DD)	Value should be greater than time_start
geographic_identifier	string	Code identifying the georeferencing unit	For gridded catches, use the CWP grid code
schooltype	string	Code of the school type	Values used in the Tuna atlas school type codelist .
species	string	Code of the species	ASFIS codes
catchtype	string		For catches, this can be used to store the type of catch values used in the Tuna atlas catchtype codelist . NA if not applicable
measurement_value	number	Measured value	
measurement_unit	string	Code of the unit	Values authorized are: <ul style="list-style-type: none">• for catches: "t" (Metric tons), "no" (Number of fishes) - until a full unit harmonization is operated• for effort: use of Tuna atlas effort codelist
measurement_obs	string	Value observations	Best practice in statistical series handling, required in case notes must be set for specific series values (e.g., estimation / assumption made)

Table 1: the FIRMS-endorsed Data Structure Definition (DSD) for data exchange purposes within the Global Tuna Atlas.

Global Tuna Atlas contribution to the reference harmonization

Proposed data exchange format:

- a data structure definition
- a series of pre-agreed concepts
- a container format for digital data exchange (CSV-based)

Column	Type	Definition	Target values
fishingfleet	string	Code of the fishing fleet	ISO3 code (uppercase), extended with ad hoc codes decided within the Tuna atlas working group.
gear GEAR_TYPE	string	Code of the fishing gear	ISSCFG code
time_start TIME_START	string	ISO 8601 format (YYYY-MM-DD)	Value should be lower than time_end
time_end TIME_END	string	ISO 8601 format (YYYY-MM-DD)	Value should be greater than time_start
geographic_identifier SQUARE_ID	string	Code identifying the georeferencing unit	For gridded catches, use the CWP grid code
schooltype "local" specification	string	Code of the school type	Values used in the Tuna atlas school type codelist .
species	string	Code of the species	ASFIS codes
catchtype CATCH_TYPE	string		For catches, this can be used to store the type of catch values used in the Tuna atlas catchtype codelist . NA if not applicable
OBS_MEASURE measurement_value	number	Measured value	
UNIT measurement_unit FISHING EFFORT UNIT	string	Code of the unit	Values authorized are: <ul style="list-style-type: none"> • for catches: "t" (Metric tons), "no" (Number of fishes) - until a full unit harmonization is operated • for effort: use of Tuna atlas effort codelist
OBS_STATUS measurement_obs	string	Value observations	Best practice in statistical series handling, required in case notes must be set for specific series values (e.g., estimation / assumption made)

Table 1: the FIRMS-endorsed Data Structure Definition (DSD) for data exchange purposes within the Global Tuna Atlas. **In red font, draft guidelines proposed standard for columns naming**

Request for CWP members

The CWP is invited to review these proposals and possibly incorporate within the CWP standards as deemed appropriate



Thank you • Merci
Благодарю • ¡Muchas gracias!
謝謝 • شکرا

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