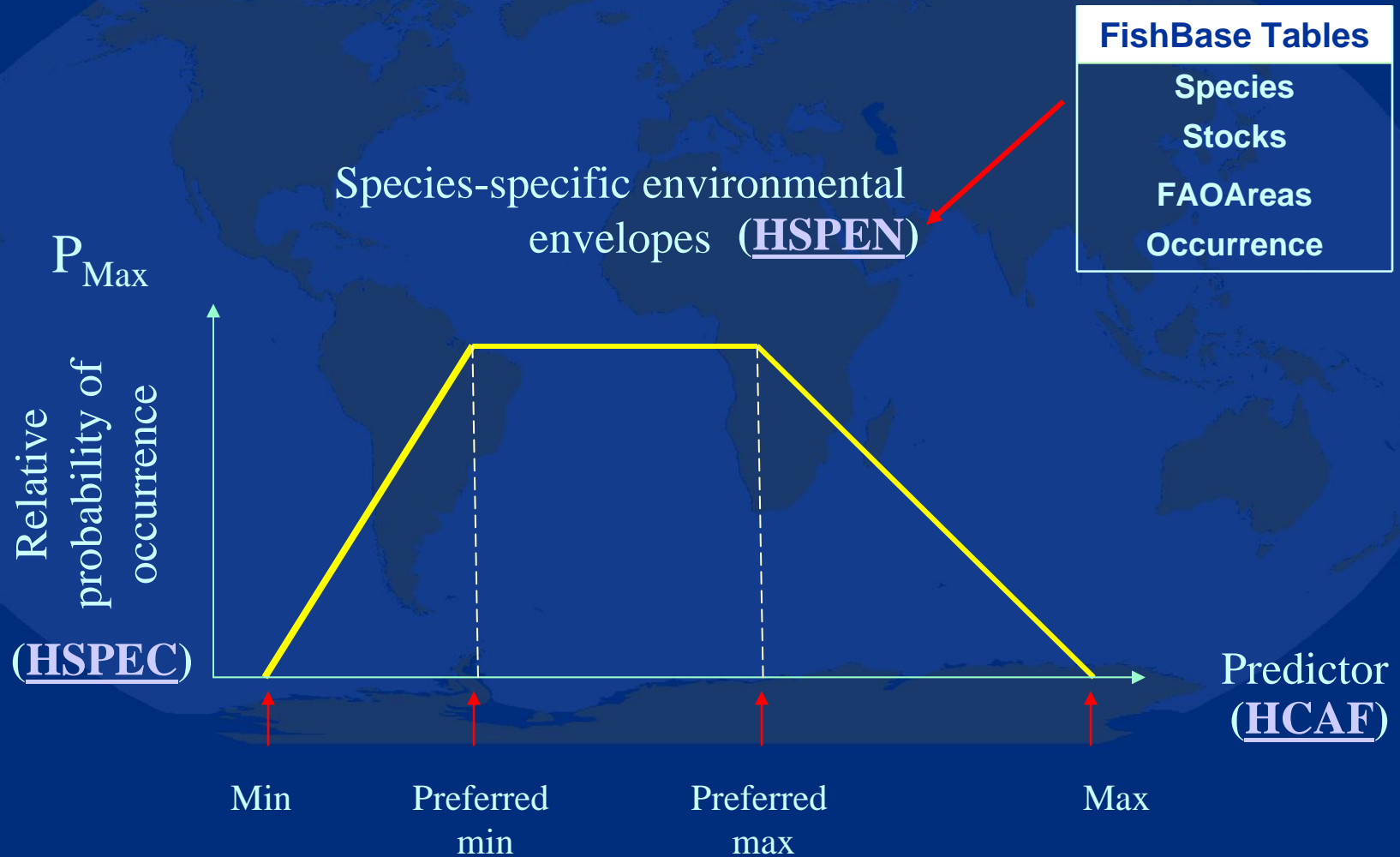


# Part II: AquaMaps and FishBase Tables



## Table: HCAF (Half-Degree Cells Authority File)

- provides several types of information on the 259,200 half-degree cells
  - cell codes (C-square, LOICZ, etc)
  - cell type (coastal, inland-coastal, oceanic, etc.)
  - statistical cell properties (center, NSWE limits, area)
  - area membership (FAO, EEZ, LME)
  - physical attributes (bathymetry, salinity, SST, distance from ice edge and land)
  - biological properties (chl *a* → primary production)

## Table: HSPEN (Species Environmental Envelope File)

- defines fields and formats to be used for describing the environmental tolerance and preference of species
  - species identification code (Catalogue of Life Annual Checklist)
  - life stage
  - FAO area information
  - species distributional range (NSWE)
  - environmental tolerances (depth, SST, salinity, chl *a*, distance to land, distance to ice edge)

## Table: HSPEC (Half-Degree Species Assignment File)

- defines fields and formats used when assigning species to half-degree cells defined in the HCAF table
  - species identification code (Catalogue of Life Annual Checklist)
  - cell codes (C-square)
  - status of occurrence (native, endemic, introduced, etc.)
  - probabilities of species occurrence (individual and overall)
  - probability method (HMap-assigned or expert-edited/assigned)
  - “good” cell (within bounding box or FAO area)

# SPECIES Table

**Species** Ref. ? Page 1 of 2

FB name : Atlantic cod Web

Species : Gadus morhua Main Ref. : 001371

Author : Linnaeus, 1758 Auth.Ref. : 001652

Subfamily :  Family complete  Checked SpecCode : 000069

Family : Gadidae Cods and haddocks

Taxa : Gadiformes (cods) Actinopterygii (ray-finned fishes)

**Depth Estimate**

Environment  Freshwater  Brackish  Saltwater Depth range : 0 - 600 001371

benthopelagic oceanodromous Ref. 051243 Common depth : 150 - 200 054441

**Size and age** Longevity wild (y) : 25.0 Ref. : 000173 captive : Ref. :

Length and Weight	male/unsexed	female	Ref.
Max. Length (cm):	200.0 TL		001371
Common length (cm):	100.0 TL		001371
Max. Weight (g)	96,000.00		009988

**Importance** Page 2 of 2

Fisheries : highly commercial Ref. : 004931

Value : medium

Catches : more than 500,000

Method : trawls

Reliable: based on ex-vessel price f  
Canada, Iceland, Europe, Norway an  
bottom otter trawls (OTB)

Eschmeyer Family Synonyms Stocks Biblio Acknowl. Swim. Glossary Next

Record: 1 of 1 (Filtered)

## Environment

### Use in HSPEN

- to filter for marine/freshwater species

### Standard/Convention in FB

- mark appropriate checkbox

## Depth Ranges

### Use in HSPEN

- DepthMin, DepthMax, DepthPrefMin, DepthPrefMax fields

### Standard/Convention in FB

- in meters

## Field: DemersPelag

### Use in HSPEN

- Pelagic field (Yes/No)

### Standard/Convention in FB

- choice field: pelagic, benthopelagic, demersal, reef-associated, bathypelagic, bathydemersal

# SPECIES Table

## Depth Estimate

### Use in HSPEN

- Best-guess for: DepthMin, DepthMax, DepthPrefMin, DepthPrefMax fields

### Standard/Convention in FB

- in meters

**Species** Ref. ? Page 1 of 2

FB name : Atlantic cod

Species : Gadus morhua Main Ref. : 001371


Author : Linnaeus, 1758 Auth. Ref. : 001652

Web SpecCode : 000069

Subfamily:   Family complete  Checked

Family : Gadidae Cods and haddocks

Taxa : Gadiformes (cods) Actinopterygii (ray-finned fishes)

**Depth Estimate** 

Environment  Freshwater  Brackish  Saltwater Depth range : 0 - 600 001371

benthopelagic oceanodromous Ref. 051243 Common depth : 150 - 200 054441

**Estimate Depth**

Species : Gadus morhua species in general 000069

Northwest to Northeast Atlantic: Cape Hatteras to Ungava Bay along the North American coast; east and west coast of Greenland; around Iceland; coasts of Europe from the Bay of Biscay to the Barents Sea, including the region around Bear Island.

Habitat zone:  Depth estimate:  -

Entered:  checked:

intertidal	0-20	
coastal/inshore/estuarine	0-50	
Epibenthic-pelagic (Ref. 58426), continental shelf	0-200	variety of habitats, from the shoreline
down to the continental shelf. Cepipelagic	0-200	omnivorous; they feed at dawn or dusk
on invertebrates and fish, including mesopelagic	200-1000	in batches (Ref. 51846). They are
marketed fresh, dried or salted, bathypelagic	1000-4000	red, fried, broiled, boiled, microwaved
and baked (Ref. 9988). The meso-continental slope	200-4000	ctic stock in the Barents Sea and the
Icelandic stock. The population abyssal	>4000	have declined dramatically (Ref.

**Habitats:** Ref. : 001371

Streams   
  Estuaries/lagoons/br. seas   
  Intertidal   
  Marine   
  coral reefs  
 Lakes   
  mangroves/ marshes/swamps   
  soft   
  oceanic   
  sea grass beds  
 Caves   
  rocky   
  neritic   
  macrophyte  
 (exclusively)   
  soft bottom   
  hard bottom

Record: 1 of 1 (Filtered)

# STOCKS Table

**Stocks**

Species:

Family:

Temp.:  -  °C

pH range:  -  Ref.  Lat.:  N -  N Ref.:

dH range:  -  Ref.  Long.:  W -  E Method:

IUCN:  Protected:

StockDef:

Level:

Resilience:

Information on this species/stock/strain available in FishBase

<input type="radio"/> Ecology	<input type="radio"/> Genetics	<input type="radio"/> Reproduction	<input type="radio"/> Broodstock
<input type="radio"/> Predators	<input type="radio"/> Electrophoresis	<input type="radio"/> Maturity	<input type="radio"/> Egg nursery
<input type="radio"/> Food items	<input type="radio"/> Heritability	<input type="radio"/> Spawning	<input type="radio"/> Larval nursery
<input type="radio"/> Diet composition	<input type="radio"/> Strains	<input type="radio"/> Eggs	<input type="radio"/> Larval speed
<input type="radio"/> Food consumption	<input type="radio"/> Aquaculture	<input type="radio"/> Egg development	<input type="radio"/> Fry nursery
<input type="radio"/> Ration	<input type="radio"/> Introductions	<input type="radio"/> Larvae	<input type="radio"/> Mini Essay
<input type="radio"/> Growth/mortality	<input type="radio"/> Morphology	<input type="radio"/> Larval dynamics	
<input type="radio"/> L/W relations	<input type="radio"/> Swim. speed	<input type="radio"/> Proxim. analysis	<input type="radio"/> Occurrence
<input type="radio"/> Max. sizes	<input type="radio"/> Metabolism	<input type="radio"/> Disease	<input type="radio"/> Countries complete
<input type="radio"/> Recruitment	<input type="radio"/> Gill area	<input type="radio"/> Ecotoxicology	<input type="radio"/> GenBank information
<input type="radio"/> L/L relations	<input type="radio"/> Vision	<input type="radio"/> Brains	
<input type="radio"/> Length frequency		<input type="radio"/> Sounds	

Entered:    
 Modified:    
 Checked:

FAO Area  Ecosystem  Country  Names  Key facts

Record:  of 2 (Filtered)

## Bouding Box

### Use in HSPEN

- NMostLat, SMostLat, WMostLong, EMostLong fields
- for filtering “good” points
- “species in general”

### Standard/Convention in FB

- “native” range
- in whole degrees
- hemisphere rule: N/S; W/E

## Field: Method

### Use in HSPEN

- reliability ranking of method used to extract coordinates
- aid to map editing

### Standard/Convention in FB

- choice field:
  - 1=estimated from published species distribution map
  - 2=estimated from unverified species distribution map
  - 3=based on reported geographic coordinates/species range extent
  - 4=combined reported coordinates/range and map estimate
  - 5=combined reported coordinates/range and FAO Areas
  - 6=based on reported FAO Areas
  - 7=estimated from StockDef using Encarta



# FAOAREAS Table

FAO Areas	
Species : Platichthys flesus	StockCode: 001359
Status : introduced	SpecCode : 001341
FAO Area : 2 : America, North - Inland waters : includes Central America	Entered: 2 19/10/90 Modified: 12/08/94 Checked:
Species : Platichthys flesus	StockCode: 001359
Status : native	SpecCode : 001341
FAO Area : 5 : Europe - Inland waters : excludes former USSR	Entered: 2 19/10/90 Modified: 12/08/94 Checked:
Species : Platichthys flesus	StockCode: 001359
Status : native	SpecCode : 001341
FAO Area : 7 : Former USSR - Inland waters	Entered: 65 02/09/93 Modified: 12/08/94 Checked:
Species : Platichthys flesus	StockCode: 001359
Status : native	SpecCode : 001341
FAO Area : 18 : Arctic Sea	Entered: 34 10/06/96 Modified: 10/06/96 Checked:

Record: 1 of 7 (Filtered)

## Field: AreaCode

### Use in HSPEN

- FAOAreas field (concatenated)
- for filtering “good” points
- “endemic” or “native”

### Standard/Convention in FB

- FAO designated fisheries statistical areas



# OCCURRENCE Table

Occurrence Page 1 of 2

Family : Ostraciidae species in general Main Ref : 041414 NIACC : 12444

Species: Acanthostracion quadricornis 000092 000106

Atlantic Ocean: in tropical and temperate waters (Ref. 3696). Western Atlantic: Massachusetts (USA), Bermuda, and northern Gulf of Mexico to southeastern Brazil. Reported from tip of South Africa.

Name used : Lactophrys quadricornis Pic :

Syn. Code: Lactophrys quadricornis

Catalog No : AMNH 81034

URL :

Locality : GULF OF MEXICO, SOUTHWEST OF PANAMA CITY BEACH, FLORIDA

Expedition :

Station : USA-SAM-374-15 Gazetteer :

Water depth :  m Altitude :  -  m

Latitude : 30° 5' N Longitude : 85° 59' W Salinity : MARINE

To :  To :  Temp :

Geog. area :  GULF OF MEXICO

Country :

Date : 08/03/74 Length (cm) :  Range :

Year : 1974 collectic Length2 (cm) :  Weight (g) :

Time :  Number : 6

Abundance :  % of catch :

Life stage : ADULTS

Bottom :

Gear :

Record: 11 of 724 (Filtered)

## LatitudeDec; LongitudeDec

### Use in HSPEN

- point data for extracting environmental parameters in corresponding half-degree cell
- where Validity ≠ 'Doubtful, outside of distributional range'

### Standard/Convention in FB

- in decimal degrees (automated)

## Field: LiveStage

### Use in HSPEN

- for generating environmental envelop by life stage

### Standard/Convention in FB

- choice field: egg, larvae, juvenile, juvenile & adults, adults