

SEVENTH FRAMEWORK PROGRAMME THEME 6 Environment

Collaborative project (Large-scale Integrating Project)

Project no: 246 933

Project Acronym: EURO-BASIN

Project title: European Basin-scale Analysis, Synthesis and Integration

**Deliverable 1.6 Report and delivery of
rescued historical data on catch and effort of North Atlantic fisheries**

Contributors: Astthor Gislason

Due date of deliverable: 01.04.2012

Actual submission date: 18.02.2013

Organisation name of the lead contractor of this deliverable: UniHB, Stéphane Pesant

Start date of project: 31.12.2010 Duration: 48 months

Project Coordinator: Michael St John, DTU Aqua

Project co-funded by the European Commission within the Seventh Framework Programme,
Theme 6 Environment

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission)	
RE	Restricted to a group specified by the consortium (including the Commission)	
CO	Confidential, only for members of the consortium (including the Commission)	

Deliverable 1.6 Report and delivery of consolidated historical data is a contribution to Task 1.3.6: Rescue historical data Rescue historical data on catch and effort of North Atlantic fisheries

Executive Summary:

THIS DELIVERABLE IS NOT YET COMPLETED

ICES delivered Datasets 1 and 2, but requires additional time for Dataset 3 (see dataset description in the report). WGNAPES' chair has now confirmed that they will send the Acoustic Surveys data. However the group is meeting on the 26th of April and will only then extract the data.

Relevance to the project & potential policy impact:

The aim of data archaeology tasks (T1.3.x) is for EURO-BASIN partners to harmonise their data and archive them at PANGAEA, bringing them into Open Access so that the broader scientific community can benefit from integrated, quality-checked datasets. Each of the data archaeology task (T1.3.x) is relevant to research activities in other Work Packages (see Table below). The present deliverable is directly relevant to research activities in Work Package 6 “Living Resources”

Data Archaeology (WP1)	Data Analysis
T1.3.1 (literature review)	WP2 Biological Pump
T1.3.2 (sample re-analysis)	WP3 Biogeography
T1.3.3 (rescue)	WP4 Trophic Flows
T1.3.4 (rescue)	
T1.3.5 (sample re-analysis)	
T1.3.6 (rescue)	WP5 Living Resources
T1.3.7 (data re-analysis)	
T1.3.8 (data re-analysis)	

The main outcome of these data archaeology tasks (T1.3.x) is the publication of a special issue in the open-access, peer-reviewed journal Earth System Science Data, as a mean to disseminate the work to the scientific community. EURO-BASIN modeling activities can already benefit from a recent ESSD special issue about Global distributions of Plankton Functional Types (http://www.earth-syst-sci-data-discuss.net/special_issue9.html). Complementary to that special issue, EURO-BASIN will publish an important compilation of data about biogeochemical rates mediated by plankton, biogeography of key plankton species, and estimates of the size, structure, biomass and diet of key fish stocks in the North Atlantic Ocean. The special issue will be published in 2013, following a progressive submission/review process of 10 months, starting in March. The

present deliverable will directly contribute to the EURO-BASIN special issue in ESSD, as part of the paper entitled “Spatially explicit estimates of stocks sizes, structure and biomass of Herring, blue Whiting and Mackerel”.

Report:

Historical catch data from 1903 – 1949, originating from 20 countries, were extracted from the ICES database. Although this data is already available on ICES online data portal, changes in species names and areas made it difficult to compile the data. In total, over 900 data spread sheets were extracted and collated into a single, harmonised table, which has been submitted to PANGAEA. Furthermore, comments and additional “notes” were also compiled and made available. In order to enhance the quality of the data set, data were corrected for redundancy and miss-spelling focusing especially on species codes and area names from FAO (Food and Agriculture Organization of the United Nations). Data were quality checked by the ICES expert Han Lassen. The data set now consists of more than 81000 entries including 108 different species and 48 areas covering the North Atlantic.

The resulting data product is available for EURO-BASIN and for the broader scientific community to investigate changes in stock sizes, structure and biomass of fish in North Atlantic during the last 100 years.

DESCRIPTION OF WORK FOR TASK 1.3.6

Definitions

Backgrounds: All metadata and data archived in a database prior to the present contract and available freely in open access.

Foregrounds: All metadata and data which were obtained as a result of the present contract and were not available in open access.

Data set 1 – Stock Assessments:

1. Extract and deliver stock assessment results (total biomass, spawner biomass, number of recruits) for selected stocks/species, at stock area level for all years available in the assessments (see Table 1);
2. Obtain and deliver (as available) input data files used for the stock assessment (i.e. landings and when available discards data, mean weight at age, maturity, etc.) for selected stocks/species, at stock area level for all years available in the assessments (see Table 1).

Data set 2 – Total Landings:

1. Extract and deliver (as available) total landings by ICES rectangle from 1903-present for all species in Table 1.
2. Request and deliver (as available) total landings by stock area from 1903 to present for all species in Table 1.

Data set 3 – Acoustic Surveys

Extract and deliver zooplankton and fish biomass estimated from acoustic surveys by age/length (for fish) and by ICES rectangle. These data are currently displayed as biomass maps in WGNAPES reports. These estimates might be available as part of the stock files for blue whiting, mackerel and Norwegian Spring Spawning Herring (NSSH) or stored in the data base managed by WGNAPES ("PGNAPES data base").

Surveys: International ecosystem survey in the Nordic Seas, International Blue whiting spawning stock survey (from 2004) and International Ecosystem Summer Survey in the Nordic Seas (IESSNS)

Years: as far back as possible

Species: blue whiting, NSSH, mackerel

Data Policy

1. Backgrounds will not be archived at PANGAEA;
2. Foregrounds will be archived at PANGAEA as citable data publications;
3. Metadata archived at PANGAEA are always public, but access to data archived at PANGAEA may be restricted with a user ID and password upon request by the author;
4. Public access to foregrounds should be granted as soon as possible and no later than 2 years after the end of the present contract;
5. Access to foregrounds will be granted to all beneficiaries of the project EuroBASIN

Table 1. Stocks, species and years for which biomass and landings data are required.

Species	Areas	Stock	Years for landings data	Years for total and spawner biomass stock assessments estimates and input data
Herring	Iceland	Division Va (Icelandic summer-spawning herring)	1903-present	All assessment years
Capelin	Iceland-East Greenland-Jan Mayen area	Subareas V and XIV and Division IIa	1903-present	All assessment years
Capelin	Barents Sea	Subareas I and II, excluding Division IIa west of 5°W	1903-present	All assessment years
Mackerel	Northeast Atlantic (combined Southern, Western, and North Sea spawning components)	Northeast Atlantic (combined Southern, Western, and North Sea spawning components)	1903-present	All assessment years
Blue whiting	NE Atlantic	Subareas I–IX, XII, and XIV (Combined stock)	1903-present; by statistical rectangle when available	All assessment years
Horse mackerel	North Sea and Skagerrak	Divisions IIIa, IVb,c, and VIId (North Sea stock)	1903-present	All assessment years
Horse mackerel	Norwegian Sea, northern North Sea, Færos, West Scotland, Irish Sea, Celtic Sea,	Divisions IIa, IVa, Vb, VIa, VIIa–c,e–k, and VIIIa–e (Western stock)	1903-present	All assessment years

	Bay of Biscay			
Horse mackerel	West of Portugal	Div. Ixa (southern stock)	1903-present	All assessment years
Anchovy	Bay of Biscay	Div. VIII	1903-present	All assessment years
Sardine	Bay of Biscay and west of Portugal	Div. VIIIc and IXa	1903-present	All assessment years
Anchovy	West of Portugal	Div. IXa	1903-present	All assessment years
Hake	Skagerrak, North Sea, w. Scotland, Irish Sea, Celtic Sea, English Channel, Northern Bay of Biscay	Division IIIa, Subareas IV, VI, and VII, and Divisions VIIIa,b,d (Northern stock)	1903-present	All assessment years
Hake	Southern Bay of Biscay and west of Portugal	Divisions VIIIc and IXa (Southern stock)	1903-present	All assessment years



PANGAEA Data Archiving & Publication PDI-3122

EuroBASIN - Task 1.3.6: Rescue historical data on catch and effort of North Atlantic fisheries

Details

Type: Task
 Priority: Major

Status: Open
 Resolution: Unresolved

Description

Responsible: UNI-HB; sub-contract to ICES
 Start: Month 4; End Month 16.

Rescue historical data on catch and effort of North Atlantic fisheries. Sources: paper publications & reports from EU, U.S.A. and Canada identified by ICES Workshop on historical data on fisheries and fish. [supports T5.1]

Attachments

subcontract_ICES_UniHB.pdf 2.37 MB 2012-10-30 14:46

Issue Links

relates to

[PDI-4239 EuroBASIN - Task 1.3.6: Rescue historical data on catch and effort of North Atlantic fisheries \(Dataset 2: Availabl...](#)

Activity

All [Work Log](#) [History](#) [Activity](#)

[Stephane Pesant](#) added a comment - 2012-09-07 13:14

UPDATE from 18 months report:

This task is subcontracted to ICES. Work has been done by ICES to further define specific deliverables of the subcontract, based on further input by WP5. The planned work deviates from that described in the proposal, leading to considerable delay in the signature of the subcontract. This leads to considerable delay (12 months) in deliverable D1.6. This delay should not affect deliverables of WP5 but has impacts on T1.3.7.

[Stephane Pesant](#) added a comment - 2012-10-30 14:46

SubContract to ICES is signed

Data set 1 – Stock Assessments:

1. Extract and deliver stock assessment results (total biomass, spawner biomass, number of recruits) for selected stocks/species, at stock area level for all years available in the assessments (see Table 1);
2. Obtain and deliver (as available) input data files used for the stock assessment (i.e. landings and when available discards data, mean weight at age, maturity, etc.) for selected stocks/species, at stock area level for all years available in the assessments (see Table 1).

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Surveys: International ecosystem survey in the Nordic Seas, International Blue whiting spawning stock survey (from 2004) and International Ecosystem Summer Survey in the Nordic Seas (IESSNS)

Years: as far back as possible

Species: blue whiting, NSSH, mackerel

Deliverables

1. Dataset 1: Stock assessment results (1st December 2012);
2. Dataset 1: Available Input files of stock assessments (1st March 2013);
3. Dataset 2: Total landings by ICES rectangle (1st February 2013);
4. Dataset 2: Available total landings by stock area (1st March 2013);
5. Dataset 3: Zooplankton and fish biomass estimates (1st December 2012);

[Stephane Pesant](#) added a comment - 2012-12-21 11:30

Dear Frank,

I have now assigned you as reporter to this ticket.

You can upload files (datasets, explanatory notes, reference papers, etc...) by selecting "More Actions" and "Attach Files" in the top menu of the ticket system (follow the link given above in the email)

Please write "Comments" in the ticket system to contact us regarding ICES' contribution to EURO-BASIN.

Cheers,
Stéphane

People

Assignee:

Janine Felden

Reporter:

Frank Sejer Christensen

[Watch \(2\)](#)

Dates

Due:

2012-11-01

Created:

2012-09-07 13:13

Updated:

2013-01-22 08:39



PANGAEA Data Archiving & Publication PDI-4239

EuroBASIN - Task 1.3.6: Rescue historical data on catch and effort of North Atlantic fisheries (Dataset 2: Available total landings by stock area)

Details

Type:	Data Submission	Status:	Open
Priority:	Major	Resolution:	Unresolved
Labels:	<input type="text" value="EUROBASIN"/>		
Author(s):	Inigo Martinez		
Title:	ICES Historical Catch Statistics 1903-49		
Keywords:	ICES, catch, landings, fisheries, 1903-49		
License:	CC-BY: Creative Commons Attribution 3.0 Unported		
Related Article(s):	Lassen et al., 2012. One hundred years of catch statistics for the Northeast Atlantic. ICES COOPERATIVE RESEARCH REPORT No. 311.		

Description

ICES Historical catch data from 1903-49 for 20 countries joined together into one unique spreadsheet: 1930-1949_catch_data_all.xls.

Disclaimer text document.

ICES Historical catch data 1903-1949_notes

All available in <http://ices.dk/fish/CATCHSTATISTICS.asp>

Attachments

1930-1949_Catch_data_all.xlsm	2.86 MB	2013-01-21 17:11
Disclaimer_Catch statistics 1903-1949.txt	4 kB	2013-01-21 17:11
ICES Historical catch data 1903-1949_notes.docx	51 kB	2013-01-21 19:42

Issue Links

relates to

[PDI-3122 EuroBASIN - Task 1.3.6: Rescue historical data on catch and effort of North Atlantic fisheries](#)

Activity

All [Work Log](#) [History](#) [Activity](#)

[Janine Felden](#) added a comment - 2013-01-22 08:50

Dear Inigo and Frank,

thanks for uploading the data. I made a few adjustment to ticket mainly due for organizational purposes. Overall the data upload looks fine to me but I might have some questions as soon as I start to prepare the data for the PANGAEA database import.

Cheers,
Janine

PS: Inigo, you can create an user account in our system by yourself and then I can assign you as well to this ticket. In this way you wold be always automatically informed about any changes related to this ticket.

People

Assignee:
Janine Felden

Reporter:
Frank Sejer Christensen

[Watching \(4\)](#)

Dates

Created:
2013-01-21 17:11

Updated:
2013-01-22 08:50