



# FishStatJ Manual

## **FishStatJ Manual**

Version 4.02.7 – August 2022

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS Rome, 2019-2022

Citation and disclaimer to be provided through PWS

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# 1.About FishStatJ

FishStatJ is a desktop application designed to disseminate FAO fishery statistical data to the world. FishStatJ's primary aim is to display, refine and export data. However, unlike a spreadsheet software it cannot modify the data, create graphs or perform advanced data analysis. One of FishStatJ's greatest strength is that it can display species according to several authoritative classifications, such as the International Standard Statistical Classification of Aquatic Animals and Plants (ISSCAAP) or the UN's Central Product Classification (CPC); and show the scientific name.

At the 23rd CWP meeting (2010), the prototype of FishStatJ was endorsed for full development and the first release of FishStatJ was delivered in 2011. FishStatJ is built using the Eclipse Rich Client Platform (Eclipse-RCP) tools. As such, it is a Java application, and requires that Java is installed on the computer. RCP allows to develop general purpose applications, which run on Windows and macOS.

FishStatJ build and improves on the features of FishStatPlus (its predecessor):

- all Fishery reference data is available (all FAO code lists with all attributes);
- all hierarchies are available (for view, and for filtering/aggregation);
- calculated columns of FishStatPlus are included;
- the software is cross-platform (Windows, Macintosh);
- data (workspaces) of dimensions can be defined as needed (flexible); and
- any data with fixed dimensions and yearly resolution can be loaded.

For the creation of workspace files (database files), a separate software called "FishStatJ Console" was developed.

In order to use the statistical data, the user has to download and install the FishStatJ application on his computer (more details follow).

# 2.Installation

# 2.1.Installing on Windows

To download FishStatJ for Windows, go to <u>fao.org/fishery/statistics/software/fishstatj/</u><u>en</u>.

#### **FishStatJ - Software for Fishery and Aquaculture Statistical Time Series**

FishStatJ is a Windows and Mac application that anyone can use to access FAO's Fisheries and Aquaculture statistics. They include datasets on production, trade and consumption. Data can be extracted and aggregated according to different level of details and international standard classifications. It consists of a main application and several workspaces that include the datasets.

List of data available within FishStatJ **(+)** 

#### FishStatJ key features

- datasets browsing, data mining and reporting
- data querying, filtering, grouping and aggregation

#### Installing FishStatJ v4.01.0



**Related topics** 

```
Statistics - Introduction
```

Download FishStatJ

- for Windows64-bit (7,8,10) auto-extract (Instructions)
- for macOS

#### 2.1.1.Windows requirements

FishStatJ is compatible with Windows 10; 64-bit version; cannot work with Windows 32-bit. The troubleshooting section below describes how to check your version of Windows.

Starting with FishStatJ version 4.01 Java 11 (OpenJDK project) is included with FishStatJ.

The FishStatJ needs about 1.5GB of disk space (400MB for the application, and the rest for data).

FishStatJ requires between 1Gb and 4GB of memory, depending on the size of the dataset used.

#### 2.1.2.32bit Windows installer

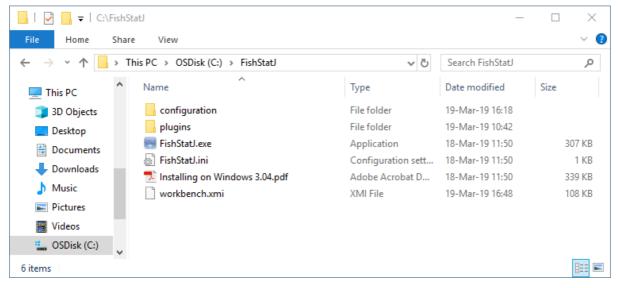
Starting with version 4.01.0 (as of March 2021) 32-bit Windows Operating system is not supported any more.

#### 2.1.3. Using Windows auto-extract installer

When running the auto-extract installer (**FishStatJ\_Installer.exe**), it will ask for the following permission:



After clicking on the **Yes** button, the installer will extract the application to C: \FishStatJ, and immediately launch FishStatJ after the extraction is complete.



No further action is required.

**Note**: The **FishStatJ\_Installer.exe** file is not a real installer but a 7-Zip auto extract archive. As such, it does not require administrative permissions. I requires permissions to create the FishStatJ folder on the C:\ disk; this permission is usually available using accounts that lack Administrative rights.

#### 2.1.4.Do not move or rename files

Please do not move or rename the files and folders, this will break the program. To resolve a corruption issue, delete the entire folder and it's content: C:\FishStatJ and run the Install.exe program again to extract the whole folder structure.

#### 2.1.5.Adding FishStatJ to the Taskbar

Applications can be added to the Taskbar (usually on the bottom of the screen) by right-clicking on the **FishStatJ.exe** file and select the **Pin to Taskbar** option.

Name	Date modified
\mu configuration	4/5/2018 9:20 AM
퉬 plugins	4/4/2018 4:18 PM
FishStat	4/4/2018 11:39 AM
FishStat Open	11:39 AM
Pin to Taskbar Pin to Start Menu	
Restore previous versions	

A FishStatJ shortcut has now been added to the Taskbar:



# 2.2.Windows troubleshooting

#### 2.2.1.Installation issues

FishStatJ is a 64-bit software, and therefore requires Windows 10, 64-bit. In the case the FishStatJ application does not start (show the FishStatJ logo, then the main menu); perform the following steps to delete and re-copy the application:

- Before launching the EXE Auto-Extract to install a new version, exit any open instance of FishStatJ (File → Exit) so that the files of the new version can be copied.
- Delete the FishStatJ folder inside the C:\ disk. using Windows explorer.
- Re-run the FishStatJ auto-extract EXE

#### 2.2.2.How to check if your computer supports 64-bit

FishStatJ is a 64-bit software, and therefore requires 64-bit Windows. The reason for this 64-bit requirement relates to the memory handling required for loading statistical data.

To check if your computer is running Windows 64-bit, please refer to the following Microsoft Support webpage: <u>support.microsoft.com/en-us/help/13443/windows-which-operating-system</u>

← Settings		- 🗆 X
懲 Home	About	
Find a setting $\rho$	Device spec	ifications
	Device name	PC009254
System	Processor	Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz 3.30 GHz
☐ Display	Installed RAM	8.00 GB
Notifications & actions	Device ID	2012/08/10/07 4821483-027430104
	Product ID	10101-0000-0002-0042
() Power & sleep	System type	64-bit operating system x64-based
📼 Storage	Pen and touch	processor No pen or touch inp&is available for this display
ᅜ Tablet mode		

**System type** shows whether your computer is running a 32- or 64-bit version of Windows.

#### 2.2.3.Diagnostic reporting

In case you encounter an issue with the application, please turn on Log diagnostic reporting, which you can find in the Edit  $\rightarrow$  Preferences menu and then exit and relaunch FishStatJ.

When you turn on **Log diagnostic reporting** in the **Preferences**, FishStatJ will check and create a log report if the program encountered an error. Please do share this report with us – it helps us to diagnose problems.

🔄 Preferences	— 🗆 X
	General preferences $\langle \neg \ \checkmark \ \checkmark \ \checkmark \ \checkmark$
General preferences Data display Data export Internet access Languages	FishstatJ general preferences  Save/Load timeseries settings on exit/open  Synchronize timeseries within the same dataset  Log diagnostic reporting  Workspace download location  C:\Users\ Downloads
	Restore <u>D</u> efaults <u>A</u> pply
	Apply and Close Cancel

We are working constantly to update our data; publishing workspaces with the latest fisheries and aquaculture data. We are grateful for any type of feedback, since it allows us to improve the application.

#### 2.2.4. How to check that FishStatJ is not corrupted

We have included a text file (TXT format), on the web-page which provides the hash for the FishStatJ\_Installer.exe (auto-extract). Once extracted, you find a TXT file with the FishStatJ.exe hash in the C:\FishStatJ folder.

The hash is calculated using the CERTUTIL tool, which is standard on Windows 10.

To check, open a DOS window, then change to the directory using the CD command. Then run CERTUTIL --hashfile FishStatJ.exe

or CERTUTIL --hashfile FishStatJ\_Installer.exe.

This will provide the hash calculated from the EXE file, which you compare against the hash we provide.

This way you can be sure, that the EXE files have not been tampered with.

# 2.3.Installing on macOS

To download the FishStatJ for macOS, please go to <u>fao.org/fishery/statistics/</u><u>software/fishstatj/en</u>.

#### FishStatJ - Software for Fishery and Aquaculture Statistical Time Series

FishStatJ is a Windows and Mac application that anyone can use to access FAO's Fisheries and Aquaculture statistics. They include datasets on production, trade and consumption. Data can be extracted and aggregated according to different level of details and international standard classifications. It consists of a main application and several workspaces that include the datasets.

List of data available within FishStatJ (+)

#### **FishStatJ key features**

- datasets browsing, data mining and reporting
- data querying, filtering, grouping and aggregation

#### Installing FishStatJ v4.01.0

Download FishStatJ

- for Windows64-bit (7,8,10) auto-extract (Instructions)
  - for macOS





Statistics - Introduction

### 2.3.1.macOS requirements

FishStatJ is compatible with macOS 10.13 (HighSierra) or later.

Starting with FishStatJ version 4.01 Java 11 (OpenJDK project) is included with FishStatJ.

The FishStatJ needs about 1.5GB of disk space (500MB for the application, and the rest for data).

FishStatJ requires between 1Gb and 4GB of memory, depending on the size of the dataset used.

#### 2.3.2.Installation

After the FishStatJ application is extracted from the ZIP file, it can be launched directly run from the Desktop, or moved to the Applications folder.

The FishStatJ application is code-signed and starting with version 4.01 is also notarized with Apple. As it is not an application from the app store: at the first launch it **requires the actions below in order to obtain permission to run**.

#### 2.3.3.Authorization

In order to authorize FishStatJ ,security settings need to be adjusted in **System Preferences**  $\rightarrow$  **Security & Privacy;** to change settings the Preferences Panel must be unlocked first.

● ● ○ < > IIII Security & Privacy	Q Search
General         FileVault         Firewall         Privacy           A login password has been set for this user         Change Password	
Require password immediately S after sleep or screen save	
Show a message when the screen is locked Set Lock Messa	ige
<ul> <li>Disable automatic login</li> <li>Allow apps downloaded from:         <ul> <li>Mac App Store</li> <li>Mac App Store and identified developers</li> <li>Anywhere</li> </ul> </li> </ul>	
Click the lock to prevent further changes.	Advanced ?

For details on macOS security refer to <u>https://support.apple.com/en-us/HT202491</u>. The next step is to download workspaces, for this please refer to section 3.1.1.

# 2.4.macOS troubleshooting

#### 2.4.1.Diagnostic reporting

In case you encounter an issue with the application, please turn on Log diagnostic reporting, which you can find in the Edit  $\rightarrow$  Preferences menu and then exit and relaunch FishStatJ.

When you turn on **Log diagnostic reporting** in the **Preferences**, FishStatJ will check and create a log report if the program encountered an error. Please do share this report with us – it helps us to diagnose problems.

🕙 Preferences	— 🗆 X
type filter text	General preferences $\langle \neg \ \checkmark \ \checkmark \ \checkmark \ \checkmark$
General preferences <ul> <li>Data display</li> <li>Data export</li> <li>Internet Access</li> <li>Languages</li> </ul>	FishstatJ general preferences ✓ Save/Load timeseries settings on exit/open ✓ Synchronize timeseries within the same dataset ✓ Log diagnostic reporting
	Workspace download location         C:\Users\         C:\Users\         Restore Defaults
	Apply and Close Cancel

We are working constantly to update our data; publishing workspaces with the latest fisheries and aquaculture data. We are grateful for any type of feedback, since it allows us to improve the application.

# 2.5.FishStatJ Privacy Policy

FishStatJ does not process or store any user input, and does not collect any user related information.

FishStatJ downloads a small file at startup, this requires an internet connection:

- in order to inform the user about program updates
- in order to present the user with a list of workspaces available for download

This is described in detail in section <u>12.6</u> (update notification).

The internet connection is used to download workspaces (statistical data), as described in section <u>3.1</u> (manage workspaces). The download of workspaces is entirely under the control of the user. The download location can be customized in general preferences <u>5.4.1</u>.

The location of the data is described in detail in section 12.4 (workspace folder).

The workspace folder contains the application log. The log contains information about the internal state of the program - no user information. The log can be viewed by the user as described in section 2.2.4 (diagnostic reporting); section 12.4 (metadata folder).

FishStatJ does save program settings modified by the user. The settings are managed using preferences as described in section 5.4 (Preferences).

Eclipse RCP (Rich Client Platform) is Java based, and as such FishStatJ requires OS permissions to run the Java and Eclipse IDE code. The open-source OpenJDK Java is included with FishStat.

FishStatJ is designed to run using normal user permissions on Windows and macOS; elevated permissions are not required.

# 2.6.Workspaces (statistical data)

Workspace files carry the statistical data. You can install an unlimited number of workspaces on a computer. However, FishStatJ can only work with one workspace at a time.

A workspace can contain one or more datasets. For the dissemination of data, workspaces are compressed into workspace files (.wks extension). FishStatJ downloads and extracts/installs workspaces automatically.

We currently offers several different workspaces files, which contain the following datasets:

- the Global Production workspace which contains:
  - Global Production
  - Capture Production
  - Aquaculture Production
- the Regional workspace with contains:
  - CECAF (Eastern Central Atlantic)
  - GFCM (Mediterranean and Black Sea)
  - RECOFI capture production
  - SEATL Southeast Atlantic Capture Production
- the Food Balance workspace which contains:
  - Food Balance Sheet
  - Population data
- the Commodities workspace which contains:
  - Fisheries Commodities Production and Trade

Please refer to section 3.1 (manage workspaces) for loading data into FishStatJ.

# 3.File Menu

### 3.1.Manage workspaces

The Manage workspaces menu allows the user to manage the workspaces:

- Open workspaces already installed.
- Download and install workspaces (from the FAO website).
- Delete workspaces installed on the computer.

🔁 Fi	shstatJ					
File	Edit	Data	Format	View	Metadata	Help
	Open	dataset			Ctrl+O	ii 🏶
	Open	worksp	ace		>	
	Mana	ge work	spaces		Ctrl+W	
	o start		oad and i		ew workspac	e
	Export	t selecti	on (CSV fi	ile)	Ctrl+S	
	Exit					

When you click on **Manage workspaces**, the **Workspaces Manager** window appears on the screen. There, two kind of workspaces are displayed:

- Workspaces in red color, are not installed on the computer (also if there is a new version available).
- Workspaces in blue color are *installed* on the computer.

The screenshot below shows that version 2018.1.0 of the "FAO Global Fishery and Aquaculture Commodities Statistics" workspace is installed on the computer:

📴 Workspaces Manager	_		×
Manage FishStatJ workspaces:			
Download, Import, Delete and Open workspaces			
Name	$\left( \right)$	Open	
FAO Food balance sheets of fish and fishery products		Delete	
FAO Global Fishery and Aquaculture Production Statistics			
FAO Global Fishery and Aquaculture Commodities Statistics	[	Download	:
FAO Regional capture fisheries statistics		Import	
Acronym FAO_FI_GLOBAL_TRADE Version 2018.1.0			
Name FAO Global Fishery and Aquaculture Commodities Statistics			
Description FAO Global Fishery and Aquaculture Commodities Statistics			
Provider Food and Agriculture Organization of the United Nations			
Location C:\Users\I\fishstatj_workspace\ws_0002			
		<u>C</u> lose	

Workspaces already installed on the local disk can be **Open**ed for viewing the data, or **Delete**d from the computer.

Manually downloaded workspaces can be imported using the **Import** button.

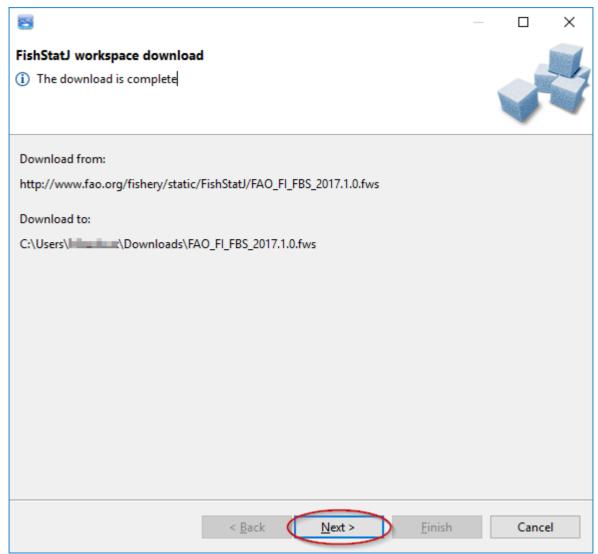
Workspaces that are already installed are not shown as available for download.

#### 3.1.1.Installing a new workspace (download)

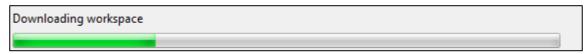
To install a new workspace, select an uninstalled (in red) workspace and click on the **Download...** button.

📴 Workspaces Manager	—		×
Manage FishStatJ workspaces:			
Download, Import, Delete and Open workspaces			
Name		Open	
FAO Food balance sheets of fish and fishery products		Delete	
FAO Global Fishery and Aquaculture Production Statistics		Download	
FAO Global Fishery and Aquaculture Commodities Statistics FAO Regional capture fisheries statistics		Download	~
The Regional captare instance statistics		Import	
Acronym FAO_FI_FBS Version 2017.1.0 Name FAO Food balance sheets of fish and fishery products			
Description Internet: automatic download			
Provider http://www.fao.org/fishery/static/FishStatJ			
Location /FAO_FI_FBS_2017.1.0.fws			
		<u>C</u> lose	

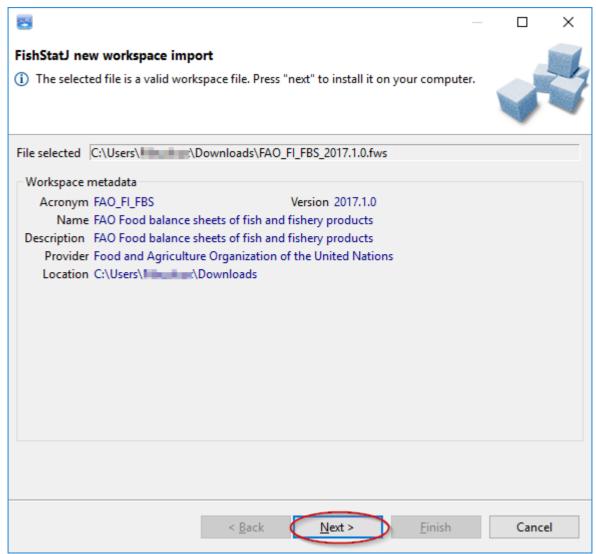
Clicking on the **Download** button will open a new window, the workspace import wizard:



A progress bar appears during the download:



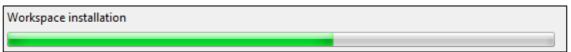
Once the file has finished downloading, press the **Next** button to install it on your computer.



If an older version of the data is present (this typically happens after the yearly release of updated workspaces from FAO), FishStatJ will ask if the new version should overwrite the old version – or keep both (resulting in two versions of the same data installed). Select the option most appropriate for you, and click **Next**.

8	
FishStatJ ne Check works	w workspace import pace
File selected	C:\Users\berger\Desktop\FAO_FI_Regionals_2016.1.0.fws
Workspace	metadata
Acronym Name	FAO_FI_REGIONAL Version 2016.1.0 FAO Regional capture fisheries statistics
Description	FAO Regional capture fisheries statistics
Provider	Food and Agriculture Organization of the United Nations
Location	C:\Users\berger\Desktop
	< Back Next > Finish Cancel

Please wait while the workspace is installing.



When the installation is complete, click the **Finish** button.

8		_		×
FishStatJ workspace import				
<ol> <li>The workspace installation is compl</li> </ol>	ete			T'
Workspace metadata			-	
Acronym FAO_FI_FBS	Version 2017.1.0			
Name FAO Food balance sheets	s of fish and fishery products			
Description FAO Food balance sheets				
Provider Food and Agriculture Or	ganization of the United Nations			
Location C:\Users\ Dow	nloads			
	< Back Next >	ish	Cano	el:

After clicking on **Finish**, the **Dataset browser** window appears. To start using your newly installed workspace, please refer to section 3.2 (open dataset) below.

#### 3.1.2. Deleting a workspace

😇 Workspaces Manager			×
Manage FishStatJ workspaces:			
Download, Import, Delete and Open workspaces			
Name		Open	
FAO Food balance sheets of fish and fishery products			-
FAO Global Fishery and Aquaculture Production Statistics	5	Delete	
FAO Global Fishery and Aquaculture Commodities Statistics	[	Download	l
FAO Regional capture fisheries statistics		Import	
Acronym FAO_FI_GLOBAL_PROD Version 2018.1.0			
Name FAO Global Fishery and Aquaculture Production Statistics			
Description FAO Global Fishery and Aquaculture Production Statistics			
Provider Food and Agriculture Organization of the United Nations			
Location C:\Users\II			
		<u>C</u> lose	

In the **Workspaces manager**, selecting a workspace will show metadata for this particular workspace (Acronym, Version, Name, Description, Provider, and Location on disk). The selected workspace is permanently removed from your computer when you click on the **Delete** button.

#### 3.1.3. Importing a workspace

The **Import...** button allows the user to import manually downloaded workspaces into FishStatJ. However, since FishStatJ is able to download workspaces files, most users do not need to download and import workspaces manually.

If you need to import a workspace manually, click on the **Import...** button of the **Workspaces Manager**.

🗃 Workspaces Manager	—		$\times$
Manage FishStatJ workspaces:			
Download, Import, Delete and Open workspaces			
Name		Open.	
FAO Global Fishery and Aquaculture Production Statistics		Delete.	
FAO Food balance sheets of fish and fishery products FAO Global Fishery and Aquaculture Commodities Statistics		Downloa	ud.
FAO Regional capture fisheries statistics		Dowilloa	.u
		Import	
		<u>C</u> lose	e

A file explorer window will appear, inviting you to select the .fws file corresponding to the workspace you wish to import. Select the .fws file and click on the **Open** button.

🗃 Workspace file selection X							
← → × ↑ 🕇 > This	PC > Downloads	ٽ ~	Search Downloads	م			
Organize 🔻 New folder			=== -	•			
🐔 OneDrive - Food a	Name	Date	Туре	Size			
💶 This PC	Scripts-20190319T084456Z-001	19-Mar-19 09:48	File folder				
_	- OMAN	12-Mar-19 10:56	File folder				
🗊 3D Objects	VM_outputs_massawa_2018-05-28	11-Feb-19 18:00	File folder				
E. Desktop	VM_outputs_massawa_2019-01-23	11-Feb-19 13:22	File folder				
Documents	FishStat1_3.04.12_win64	30-Jan-19 13:58	File folder				
🖶 Downloads	FAO_FI_Global_Production_2018.1.0.fw	s 19-Mar-19 11:20	FWS File	9,460			
b Music							
Pictures							
📕 Videos							
🏪 OSDisk (C:) 🗸 🗸	c			>			
File <u>n</u> ar	me: FAO_FI_Global_Production_2018.1.0.fws	~	*.fws	∼ Cancel			
				.:			

In the window that appears, click on the **Next >** button.

		×
FishStatJ workspace import		
<ol> <li>A workspace file is selected</li> </ol>		Z'
select file C:\Users\ <b>I-land</b> \Downloads\FAO_FI_Global_Production_2018.1.0.fws		
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cano	:el

The following window is displayed, confirming that you have selected a valid workspace file and inviting you to install it on your computer. To do so, click on the **Next >** button.

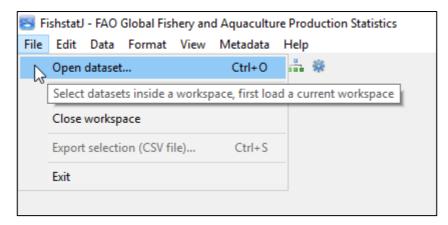
		×
<b>FishStatJ new workspace import</b> <ol> <li>The selected file is a valid workspace file. Press "next" to install it on your computer.</li> </ol>		
File selected C:\Users\\\Downloads\FAO_FI_Global_Production_2018.1.0.fws		
Workspace metadata         Acronym FAO_FI_GLOBAL_PROD       Version 2018.1.0         Name FAO Global Fishery and Aquaculture Production Statistics         Description       FAO Global Fishery and Aquaculture Production Statistics         Provider Food and Agriculture Organization of the United Nations         Location       C:\Users\F		
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Canc	el

Once FishStatJ confirms that the workspace installation is complete, click on the **Finish** button to go back to the interface and open the workspace.

8		×
(i) The workspace import		
Workspace metadata         Acronym FAO_FI_GLOBAL_PROD       Version 2018.1.0         Name FAO Global Fishery and Aquaculture Production Statistics         Description       FAO Global Fishery and Aquaculture Production Statistics         Provider Food and Agriculture Organization of the United Nations         Location       C:\Users\1		
< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cance	2l

### 3.2.Open Dataset...

Note: This option is only available when a workspace is currently open in FishStatJ.



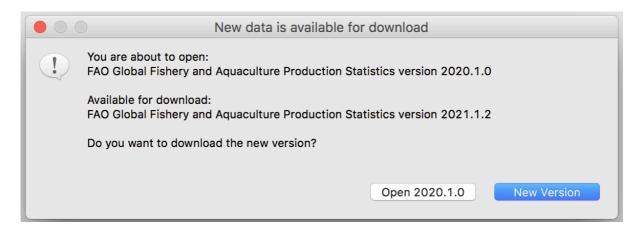
Selecting this option will present the **Dataset browser** window, where datasets may be opened and brought into FishStatJ for viewing.

Once you have opened a dataset, the **Manage workspaces** item under the **File** menu is disabled (or dimmed); until you close the active workspace by clicking on the **Close workspace** item.

i Datatset browser	- 🗆 X
Datatset browser Select a time series or a complete dataset	
<ul> <li>Dataset</li> <li>Global capture production Quantity (1950 - 2016)</li> <li>Global aquaculture production Quantity (1950 - 2016) Value (1984 - 2016)</li> <li>Global production by production source Quantity (1950 - 2016)</li> </ul>	Metadata         Dimensions         Attachments         time series           Name         Global aquaculture production           Acronym         AQUACULTURE         Date         2018-03-16           Data         source         FAO         URL         http://www.fao.org/fishery/statistics/global-aquacultur           Description         This database contains aquaculture production statistics by country or territory, species item, FAO Major Fishing Area and culture environment.
	OK Cancel

Selecting a dataset by clicking on the items listed on the left-side of the window will present the associated metadata on the right-side of the window. Select a dataset and click on the **OK** button to open the dataset content.

#### 3.2.1.New data is available



In case there is a newer version of workspace available published for download the program will ask if you want to open the currently installed (2020.1.0 in this example) or download the new version.

Clicking on "New Version" will open the manage Workspace dialog - which shows the new versions available for download in red color.

**Note:** This function is not available when working off-line; as it requires an active internet connection.

### 3.3.Close workspace

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics								
File	Edit	Data	Format	View	Metadat	а	Help	
	Open d	lataset			Ctrl+C	)	å 🖗	
	Manage workspaces Ctrl+W 2016) A Global aquaculture production							
6	Close workspace aculture area ( Envir						Environment (Envi	
45		selecti	on (C <sup>C</sup> Clo	se the	current wo	orks	- Inland waters pace; in order to o	
	Exit pe - Inland w Freshwater							
Alba	ania		Com	mon ca	rp	Eur	ope - Inland w	Freshwater
Alba	ania		Cruci	an carp	)	Eur	ope - Inland w	Freshwater

Selecting this item will close the current workspace and all datasets and that are active within this workspace.

**Note**: The **Close workspace** option saves settings for all active datasets. Next time you launch FishStatJ, saved settings are applied. If you do not want a dataset to open automatically next time you open FishStatJ, just close it using the **Close icon** on the dataset panel:

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File Edit Data Format View Metadata Help							
🍘   🈼 😤 🛃 🖊   🏢 f $\omega$   🥅 Σ   📰 🚠 🎕							
📶 Global aquaculture production - Value (1984 - 2016)							
Country (Country) Species (ASFIS spe Aquaculture area ( Enviro							
Afghanistan	Cyprinids nei	Asia - Inland waters	Freshw				

**Note**: Filtering and aggregation settings are also recorded for each dataset; and automatically re-applied when you launch FishStatJ next time.

If the **Save working session on exit** option (located in **Edit**  $\rightarrow$  **Preferences**) is active, when FishStatJ restarts the datasets that were open when the user exited the application will automatically reopen.

# 3.4.Export selection (CSV file)...

Selecting this option will save all selected rows into a comma-separated values (CSV) file:

😇 F	醛 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics								
File Edit Data Format View Metadata Help									
	Open	dataset.			Ctrl+	0	å 🏶	_	
	Mana	ge work	spaces		Ctrl+\	N	<b>:016)</b> 🔀		
	Close	workspa	ace				aculture	area (	Environment (Envi
			100110			~	- Inland	waters	Freshwater
63	Export	selectio	on (CSV fi	le)	Ctrl+	S	- Inland	waters	Freshwater
Ŭ	Exit		Say	/e the c	urrent sel	ectio	n to a CS	/ file 1	Freshwater
Alba	ania			mon ca			ope - Inlai		Freshwater
Alba	ania		Cruci	an carp	)	Eur	ope - Inlai	nd w	Freshwater
Alba	ania		Europ	bean se	abass	Me	diterranea	n an	Marine
Alba	ania		Fresh	water f	ishes	Eur	ope - Inlai	nd w	Freshwater
Alba	ania		Gilthe	ead sea	bream	Me	diterranea	n an	Marine
Alba	ania		Grass	carp(=	White	Eur	ope - Inlai	nd w	Freshwater
Alba	ania		Kurur	ma prav	wn	Me	diterranea	n an	Marine
Alba				terrane			diterranea		Marine

A **Save As** pop-up window will appear so that all selected rows may be saved into a .csv file on a given location of the hard drive.

🔁 Save As				×
← → • ↑ 📙	$\rightarrow$ This PC $\rightarrow$ Documents $\rightarrow$ FAO data $$	Search FAO data	م	)
Organize 🔻 Ne	w folder		<b>≣</b> - (2	
🝊 OneDrive	Name     Date modified	Туре	Size	
💻 This PC	No items match your search	l.		
🧊 3D Objects				
📃 Desktop				
Documents				
🖊 Downloads				
👌 Music				
Pictures				
📑 Videos	v <			>
File <u>n</u> ame:				$\overline{}$
_	*			_
Save as <u>t</u> ype:	",CSV			~
∧ Hide Folders		<u>S</u> ave	Cancel	]

When the save of the selected records into a .csv file is complete, a confirmation message will appear:



Settings for export of CSV files are managed in **Edit**  $\rightarrow$  **Preferences**  $\rightarrow$  **Data Export**. See section 5.4(data export) for more information.

**<u>Note</u>**: The CSV file shows the period (years) in brackets, for example "[2022]". This is a statistical standard also used by FAOSTAT. The reason is to prevent Excel from recognizing the period as a number which can be aggregated.

### 3.5.Exit

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics				
File	Edit Data Format View	Metadata	Help	
	Open dataset	Ctrl+0	â 🖗	
	Manage workspaces	Ctrl+W	:016) ፡፡	
	Close workspace		aculture area (	Environr
	E 1 1 1 1000 (CD)	<b>C L C</b>	- Inland waters	Freshwat
Export selection (CSV file)		Ctrl+S	- Inland waters	Freshwat
	Exit		pe - Inland w	Freshwat
Alba	ania Common ca	urope - Inland w	Freshwat	

Selecting this option will close the FishStatJ program.

# **4.Data display** 4.1.Displaying a dataset

When a dataset is open, the main window of FishStatJ looks like this:

	oduction - Quantity (1950 -	2016) 🖾						0		] [
Country (Country)	Species (ASFIS spe., ^	2008	2009	2010	2011	2012	2013	2014	2015	Г
Afghanistan	Freshwater fishes	1000 F	1000 F	1000 F	1000 F	1000 F	1000 F	1000 F	1000 F	
Albania	Angelsharks, sand	23	14	78	12	5	5	4	4	
Albania	Atlantic bluefin tu	-	50	-	0	-	9	34	40	
Albania	Atlantic bonito	27	21	23	12	5	4	3	27	
Albania	Barracudas nei			7						
Albania	Bighead carp	24	5		23	12	13	10	16	
Albania	Bleak	190	530	505	360	195	200	210	80	
Albania	Blue and red shrimp									
Albania	Blue whiting(=Po	-		-	-	-	-	-	-	
Albania	Bluefish			-	-	-	-	-	-	
Albania	Bogue	132	154	80	88	55	50	78	90	
Albania	Caramote prawn	23	20	228	9	19	24	33	22	
Albania	Catsharks, nurseh									
Albania	Common carp	371	214	335 F	450	398	418	434	480	
Albania	Common cuttlefish	62	126	98	90	80	85	75	82	
Albania	Common dace	8	4		4	4	5	5	5	
Albania	Common dentex	32	43	25	22	14	13	11	15	
Albania	Common octopus	82	109	47	113	165	170	173	124	
Albania	Common sole	63	69	120	68	79	62	44	71	
	Common spiny lo	3	1		2					
Albania	Common squids	107	60	64	52	76	92	105	134	
Albania Albania		2	8	1	2	4	3	5	4	
	Croakers, drums ne	2								

# 4.2.Notes (if applicable)

Country notes are now made visible in the data display through a red triangle. In the past notes have been published in the annual statistical yearbook (PDF version).

The red triangle only shows, if the object has note text defined.

Country (Name)	Continent (Name)	ASFIS species (Nam	ne) FAO major fishing area	Environment (Nam
Afghanistan	Asia	Cyprinids nei	Asia - Inland waters	Freshwater
📕 Afghanistan	Asia	Rainbow trout	Asia - Inland waters	Freshwater
Albania	Europe	Bighead carp	Europe - Inland waters	Freshwater
Albania	Europe	Common carp	Europe - Inland waters	Freshwater
Albania	Europe	Crucian carp	Europe - Inland waters	Freshwater
Algeria	Africa	Barbel	Africa - Inland waters	Freshwater
Algeria	Africa	Bleak	Africa - Inland waters	Freshwater
Algeria	Africa	Caramote prawn	Mediterranean and	Brackishwater
Algeria	Africa	Common sole	Mediterranean and	Brackishwater

The notes are visible by selecting a row, and then right-clicking on the Country:

China							
The 2000-2002 aquaculture production data for "Oriental river prawn" (Macrobrachium nipponense) have been included based on published reports. The figures for 2003-2008 have been provided by the national reporting office.							
For statistical purposes, the data for China do not include Hong Kong Special Administrative Region (Hong Kong SAR), Macao Special Administrative Region (Macao SAR) and Taiwan Province of China.							
Data for "Turbot" for 2003-2017 were subtracted from "Lefteye flounders nei" as FAO estimates.							
Attribute	Value	Description					
▶ Name		Country name					
ISO3 code	CHN	ISO3 code					
ISO2 code	CN	ISO2 code					
Internal identifier	41	Internal identifier					
Official name		Official name					
Code UN (M49)	156	Code UN (M49)					
FAO 12 characte	China	FAO 12 characters code					
		ОК					

The note text can be exported using copy/paste.

# 4.3.Toolbar icons

The toolbar icons on the left side provide quick access to the data tools. These are also exposed in the **Data menu**, where you also find a detailed explanation.

The toolbar icons on the right side provide quick access to the dataset attachments. These are also exposed in the **Metadata menu**, where you also find a detailed explanation.

### 4.4.Row Details

Selecting/highlighting a row (as shown above) will present the yearly data values on the lower part of the window (as shown under the **Row Details** tab).



### 4.5.Number of rows

The number of rows on display is shown in the lower-right part of the window. This number depends on the filtering critera choosen by the user; Filtering is explained in section 6.1 (Filter).

4789 filtered records

### 4.6.Memory Status

The memory bar shows the state of the Java heap memory, which is a feature of RCP applications. This feature is useful for troubleshooting only.

551M of 733M 🏾 🧊

# 5.Edit Menu

# 5.1.Select all

😇 Fi	🔁 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics						
File	File Edit Data Format View Metadata Help						
	📦 📐 Select all 🛛 Ctrl+A 🛛 🖾 🏶						
📶 G					984 - 2016) 🖾		
Cou				Ctrl+C		Aquaculture area (	Environment (Envi
Afgł		Preference	s	Ctrl+P		Asia - Inland waters	Freshwater
Afgh	ianista	m	Nainpow	trout		Asia - Inland waters	Freshwater
Alba	nia		Bighead (	ead carp		Europe - Inland w	Freshwater
Albania Common		n carp		Europe - Inland w	Freshwater		
Albania Crucian carp		arp	Europe - Inland w		Freshwater		
Albania E		European	n seabass		Mediterranean an	Marine	

### Clicking on this option will select all the rows in the currently open dataset:

🔄 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File Edit Data Fo	ormat View Metada	ta Help					
🎯 🛛 🈼 💦 💱 🐴	📑 fω 🔲 Σ	📰 🚠 🏶					
📶 Global aquaculture	production - Value (19	984 - 2016) 🖾					
Country (Country)	Species (ASFIS spe	Aquaculture area (	Environment (Envi	^	1984	1985	
Afghanistan	Cyprinids nei	Asia - Inland waters	Freshwater		225	225	
Afghanistan	Rainbow trout	Asia - Inland waters	Freshwater		60	60	
Albania	Bighead carp	Europe - Inland w	Freshwater			0	
Albania	Common carp	Europe - Inland w	Freshwater		25	50	
Albania	Crucian carp	Europe - Inland w	Freshwater		25	25	
Albania	European seabass	Mediterranean an	Marine				
Albania	Freshwater fishes	Europe - Inland w	Freshwater		2.5	15	
Albania	Gilthead seabream	Mediterranean an	Marine		0	0	
Albania	Grass carp(=White	Europe - Inland w	Freshwater				
Albania	Kuruma prawn	Mediterranean an	Marine		0	0	
Albania	Mediterranean m	Mediterranean an	Marine		588.9	586.3	

# 5.2.Select none

🔁 Fi	🗃 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics						
File	Edit Data Format View Metadata Help						
		Select all		Ctrl+A	🖾 🏭 🎆		
航 G	6	Select non	e	Ctrl+N	984 - 2016) 🖾		
Cou	-	No rows are selected Ctrl+C		Aquaculture area (		Environment (Envi	
Afgł	_	Preference	s	Ctrl+P	Asia - Inland	waters	Freshwater
Afgh	idnista	m	Nainbow	trout	Asia - Inland	waters	Freshwater
Alba	nia		Bighead	carp	Europe - Inlar	nd w	Freshwater
Alba	nia		Commo	n carp	Europe - Inlar	nd w	Freshwater
Alba	nia		Crucian	carp	Europe - Inlar	nd w	Freshwater

Clicking on this option will deselect any selected row in the currently open dataset:

😆 FishstatJ - FAO Glo	😴 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File Edit Data Fo	ormat View Metada	ta Help						
🎯 🛛 🍞 🕵 💱 🖄	🔢 fω 🔲 Σ	🕮 🚠 🏶						
📶 Global aquaculture	📶 Global aquaculture production - Value (1984 - 2016) 🖾							
Country (Country)	Species (ASFIS spe	Aquaculture area (	Environment (Envi	^	1984	1985		
Afghanistan	Cyprinids nei	Asia - Inland waters	Freshwater		225	225		
Afghanistan	Rainbow trout	Asia - Inland waters	Freshwater		60	60		
Albania	Bighead carp	Europe - Inland w	Freshwater			0		
Albania	Common carp	Europe - Inland w	Freshwater		25	50		
Albania	Crucian carp	Europe - Inland w	Freshwater		25	25		
Albania	European seabass	Mediterranean an	Marine					
Albania	Freshwater fishes	Europe - Inland w	Freshwater		2.5	15		

# 5.3.Copy selection

🔁 Fi	😆 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics						
File	Edit Data F	ormat View Metad	ata Help				
	Select all	Ctrl+A	📰 🚠 🏶				
航 G	Select nor	ne Ctrl+N	984 - 2016) 🖾				
Cou	Copy sele	ction Ctrl+C	Aquaculture area (	Environment (Envi	^	1984	1985
Afgł	Copy the cu	irrent selection to the c	lipboard pland waters	Freshwater		225	225
Afgł	anistan	Nampow trout	Asia - Inland waters	Freshwater		60	60
Alba	nia	Bighead carp	Europe - Inland w	Freshwater			0
Alba	nia	Common carp	Europe - Inland w	Freshwater		25	50
Alba	nia	Crucian carp	Europe - Inland w	Freshwater		25	25
Alba	nia	European seabass	Mediterranean an	Marine			
Alba	nia	Freshwater fishes	Europe - Inland w	Freshwater		2.5	15
Alba	nia	Gilthead seabream	Mediterranean an	Marine		0	0
Alba	nia	Grass carp(=White	Europe - Inland w	Freshwater			
Alba	nia	Kuruma prawn	Mediterranean an	Marine		0	0
Alba	nia	Mediterranean m	Mediterranean an	Marine		588.9	586.3

Selecting this option will copy all selected rows into the clipboard. When the copy of the selected records into the clipboard is complete, a confirmation message will appear:

🛃 Ехро	ort done	$\times$
1	9 rows have been copied to the clipboard	
	C	)K

This option is useful if you intend to copy the selected rows directly into an opened spreadsheet.

The settings related to how data is copied to the clipboard are managed in **Edit**  $\rightarrow$  **Preferences**  $\rightarrow$  **Data Export**. See section 5.4 (data export) for more information.

# 5.4.Preferences

FishStatJ's **Preferences** include a range of settings that can be modified by the user. They can be accessed (i) from the **Edit** menu...

🔁 Fi	🗃 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File	Edit	Data Format View Metadata Help						
		Select all	Select all Ctrl+A 🔠 🚠 🍀					
📶 G		Select none Ctrl+N 984 - 2016) 🔀						
Cou		Copy selec	tion	Ctrl	+C	Aquaculture are	ea (	Environment (Envi
Afgł		Preferences Ctrl+P		Asia - Inland waters		Freshwater		
	เสรารเล			ow trou		Asia - Inland waters		Freshwater
Alba	Alban Manage FishStatJ preferences			Europe - Inland w		Freshwater		
Alba	Albania Common carp		Europe - Inland w		Freshwater			
Albania Crucian carp		Europe - Inland w		Freshwater				

... and (ii) from the toolbar by clicking on the **Preferences icon**.

😴 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File Edit Data Fo	ormat View Metada	ta Help					
🎯   🈼 💦 💱 🖄							
ଲ Global aquaculture	Global aquaculture production - Value (1984 - 2016 Manage FishStat) preferences						
Country (Country)	Species (ASFIS spe	Aquaculture area (					
Afghanistan	Cyprinids nei	Asia - Inland waters	Freshwater				
Afghanistan	Rainbow trout	Asia - Inland waters	Freshwater				

The **Preferences window** is presented below. Preferences are grouped in five categories, which are listed on the left side of the window. Specific options for each Preferences category are listed on the right side of the window.

#### 5.4.1.General preferences

📴 Preferences	— D X
	General preferences $\langle \neg \; \bullet \;$
General preferences > Data display Data export Internet access Languages	FishstatJ general preferences
	Apply and Close Cancel

The General preferences options are the following:

- Save/Load timeseries settings on exit/open controls if the time series settings (like filtering, aggregation, column settings) are automatically saved (when exiting FishStatJ) and loaded (when launching the application).
- **Synchronize timeseries within the same dataset**: This is useful for Aquaculture data, to keep the time series of Quantity and Value in sync. Any filtering/aggregation settings will be applied to both time series.
- If Log diagnostic reporting is enabled, FishStatJ will read the log-file and check for any errors every time the application starts. In case the logs contain any program errors, it copies the last two months of logs into a file called mail.txt and ask the user to send this file to us for analysis. If the Outlook software on Windows is installed, FishStatJ automatically prepares the e-mail message. This option is disabled by default.

**Note:** FishStatJ does not automatically submit any log information. You can check the content of the text file before sending, and you have to (manually) send the file to FAO (refer to section 12.4.2).

In case of problems, the log analysis is useful to understand the cause of the problem. This helps us to fix the problem for the user reporting the problem– and to improve the quality for all users.

 Workspace download location allows to set the location where FishStatJ downloads workspaces before they are installed. We added this setting because some users reported that the Downloads folder does not exist on their PC.

Refer to section 12.4 for details on the log location, and FishStatJ workspaces.

#### 5.4.2.Data display

The Data display preferences allows the user to specify:

- If the dataset panel automatically centers on the last column of the data each time it a dataset is loaded (set by default).
- Whether the width of the columns that contain values is automatically adjusted, or a fixed width (as determined by the user).
- If the dimension column header shows the attribute name (the default), or a generic dimension name

🕙 Preferences	— D X
type filter text	Data display preferences $> \checkmark > \checkmark $
General preferences > Data display Data export Internet access Languages	<ul> <li>Display the last column on time series loading</li> <li>Statistical measures columns width         <ul> <li>Dynamic width</li> <li>Fixed width</li> <li>Fixed width</li> <li>Show dimension attribute name</li> </ul> </li> </ul>
	Restore Defaults     Apply       Apply and Close     Cancel

**Note**: If the column width display is set too small so that the observations are not readable, an easy solution is to set a column width of 60.

#### 5.4.3.Data display – Number formatting

**Number formatting** options control how values are shown (i.e. set the number of digits before and after decimals; use point or comma as decimal separator; use decimal or scientific notation). It is important to note that these formatting preferences are used for display and when exporting data.

📴 Preferences				—		×
type filter text	Number formatting			<		- <b>-</b>
General preferences Data display Number formatting Symbols and Colors Data export Internet access Languages	Statistical measureDigits before decimalsDigits after decimals12345.333312345.330.33			At least       ∨       1       ↓         At most       ∨       2       ↓         12345678       12345678		
	Calculated measures Digits before decimals Digits after decimals 12345.3333 12345.33	0.3333333		At least ∨       1         At least ∨       2         12345678         12345678		
	O use comma ( 12,3 ) O scientific		decimal no scientific n	notation ( 1000 ) notation ( 1E03 ) store <u>D</u> efaults <u>A</u> pply		ly
			Apply	and Close	Cance	I

#### 5.4.4.Data display – Symbols and Colors

**Symbols and Colors** options control how data symbols are shown (set color and symbol display). It is important to note that these formatting preferences are used for display and when exporting data.

	Preferences		
type filter text	Symbols and Colors		, , , , , , , , , , , , , , , , , , ,
General preferences ▼Data display Number formatting Symbols and Colors	Show official value as	[blank] \$	
Data export Internet access	Show unavailable value as		color <b>h</b>
Languages	Show negligible values (<0.5) as	N \$	color <b>h</b>
	Show zeroes as	- \$	color 📲
	Show estimate as	E	color 📲
	Show mirrored as	T 🗘	color 📲
	Show imputed as	1	color 📲
		Restore Defaults	Apply
		Cancel	Apply and Close

#### 5.4.5.Data export

This menu includes several options that set the modalities of data exports.

📴 Preferences	— 🗆 X
type filter text	Export to CSV files and clipboard 🛛 🗢 👻 💌
General preferences V Data display Number formatting Symbols and Colors Data export Internet access Languages	<ul> <li>Export tables headers</li> <li>Split values and symbols in two columns Header of the symbol column</li> <li>Export selection criteria</li> <li>Don't export symbols</li> <li>Export with totals</li> <li>Export citation</li> </ul>
	Re-adjust the preferences on each export           Restore Defaults         Apply
	Apply and Close Cancel

- Export tables headers: when selected, headers are exported.
- Split values and symbols in two columns. This is to avoid issues when analyzing the data after exporting it. Indeed, mixing symbols and figures within the same cells in a spreadsheet can make data analysis impossible, notably because the spreadsheet software will not recognize cells as numbers if these contain non-numerical characters.
- Export selection criteria: will add the filtering/aggregation settings to the export.
- **Don't export symbols**. This is to avoid issues when analyzing the data after exporting it. Indeed, mixing symbols and figures within the same cells in a spreadsheet can make data analysis impossible, notably because the spreadsheet software will not recognize cells as numbers if these contain non-numerical characters.
- Export with totals on selected rows.
- Export citation. See section 9.3.
- **Re-adjust the preferences on each export**: selecting this will show a dialog window before each export operation, to make sure that the proper export settings are selected before each data export.

#### 5.4.6.Internet Access

The preferences regulating Internet access by FishStatJ are listed below:

- The **Settings for version download** are described in detail in section 12.6 (update notification).
- **Use Proxy** is provided in case the network is protected with a proxy server. It allows FishStatJ to download the current information (program version and workspaces versions) and download workspaces (data) using a proxy server. We added proxy settings as requested by some users.

The use of proxy is controlled with the **use Proxy** checkbox. Proxy server IP address and port number fields are required (must be filled) if proxy is activated.

🔁 Preferences	— D X
<ul> <li>Preferences</li> <li>type filter text</li> <li>General preferences</li> <li>Data display</li> <li>Number formatting</li> <li>Symbols and Colors</li> <li>Data export</li> <li>Internet access</li> <li>Languages</li> </ul>	Internet access
	Restore Defaults     Apply       Apply and Close     Cancel

The Proxy user ID and Proxy Password fields can be left empty.

#### 5.4.7.Languages

The language menu allows the user to change the language in which FishStatJ is displayed.

🗃 Preferences	_	
type filter text	Choose the application language	;
General preferences Data display Number formatting Symbols and Colors Data export Internet access Languages	<ul> <li>English</li> <li>French</li> <li>Spanish</li> </ul>	
	Restore <u>D</u> efaults	<u>A</u> pply
	Apply and Close	Cancel

A familiar popup window will appear if the user tries to change the language. Click on the **Yes** button to restart the application.

🛃 Appl	ication restart	$\times$
?	FishstatJ will be restarted with a different language. Click "Yes" if you want to continue	
	Yes No	

# 6.Data Menu

# 6.1.Filter...

The timeseries filter becomes enabled once a dataset is open. **Filter** can be accessed (i) from the **Data** menu...

😇 FishstatJ	- FAO	Global Fis	hery and	d Aquacult	ure Produ	iction Statis	tics
File Edit	Data	Format	View	Metadata	i Help		
) 🏹 🎯		Filter			F4		
航 Global a	📶 Global a 🗸 Aggregate F5						
Country (C		Filter data for each of the dimensions				e area (	Environment (Envi
Afghanista		Sort			F7	d waters	Freshwater
Afghanista		Top/Other			F8	d waters	Freshwater
Albania		Curtom a			Ctrl+G	and w	Freshwater
Albania		Custom gr	oups		Cui+0	and w	Freshwater
Albania		Calculated	l colum	ns	Ctrl+F6	and w	Freshwater

... and (ii) from the toolbar by clicking on the **Filter icon**.

😴 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics
File Edit Data Format View Metadata Help
File       Edit       Data       Format       View       Metadata       Help         Image: Solution of the second
Glo Filter data for each of the dimensions (F4) 016) ☆

🦻 Time series filtering				— 🗆
Time series filtering		$\searrow$		
Select the requested items for each dimension	n			
Country Species Fishing area Unit				
Include	_			Exclude
	-			Afghanistan
When no selection is made all items will be				Albania Algeria American Samoa
included				Andorra Angola
	Co	untries by continent	~	Anguilla Antigua and Barbuda
	<	Africa	>	Argentina
	<	Americas	>	Armenia
	<	Antarctica	>	Aruba
	<	Asia	>	Australia Austria
	<	Europe	>	Azerbaijan
	<	Oceania	>	Bahamas
				Bahrain
				Bangladesh
				Barbados Belarus
				Belgium
				Belize
				Benin
				Bermuda
				Bhutan
				Bolivia (Plurinat.State) Bonaire/S.Eustatius/Saba

On the left side the items are *included* on the dataset panel, on the left side the items are excluded from the dataset panel. The Include side is empty by default, meaning that all items are shown.

Items available for filtering depend on the dimensions of the dataset loaded. In the example above, available filters are Country, Species and Fishing area. Australia is the only country selected in this example.

The arrow buttons copy the selected items from left-to-right or from right-to-left, according to the direction of the buttons:



 $\times$ 

٨

ОК

Cancel

The double-arrows copy all items in the direction indicated:



Clicking **OK** will activate the filter and refresh the data display in the main window.

Right-clicking on an item will display a quick selections menu:

- Select all
- Deselect all
- Invert selection
- **Choose attribute** allows to select the attribute used for the Filter dialog. This setting is remembered by FishStatJ:

	Exclude		0	- 5	9 4 F	34 3	
		A			4 F		
Afghanister Albania Algeria America Andorra	Select all Deselect all Invert Selection		3 0 	12 201 	11 F 175 F 	10 150 	2
Angola Anguilla Antigua Argentin Armenia Aruba	Choose attribute Details on Afghanistan	•		ISO2 code FAO 12 cha Official nar Internal ide	ne	de	
Austria Azerbaijan Bahamas Bahrain Bangladesh				ISO3 code UN code Name			

• Details on [name of item] shows details on the selected item:

-				×
Afg	hanistan			-
At	tribute	Value	Description	
	ISO3 code	AFG	ISO3 code	
>	Name		Name	
	ISO2 code	AF	ISO2 code	
	Internal identifier	2	Internal identifier	
	FAO 12 characters	Afghanistan	FAO 12 characters code	
~	Official name		Official name	
	(en)	The Islamic Republic of		
	(fr)	la République islamique		
	(es)	la República Islámica del		
	(ar)			
	(zh)			
	(ru)			
	UN code	004	UN code	
			OK	

### 6.1.1.Selection mode preferences

The **Time series filtering** window includes a button to open the **Selection mode preferences**:

Time series filtering Select the requested items for each dimension	$\searrow$				
-					
Country Species Fishing area Unit					
Include			Exclude		
When no selection is made all items will be included		Andor Angola	a :an Samoa ra		^
	Countries by continent	Anguil Antiqu	la a and Barbuda		
	< Africa < Americas < Antarctica < Asia < Europe < Oceania	<ul> <li>&gt; Argent</li> <li>&gt; Armen</li> <li>&gt; Aruba</li> <li>&gt; Austria</li> <li>&gt; Austria</li> <li>&gt; Austria</li> <li>&gt; Austria</li> <li>&gt; Baham</li> <li>Baham</li> <li>Baham</li> <li>Baham</li> <li>Belaru</li> <li>Belgiu</li> <li>Belize</li> <li>Benin</li> <li>Bermu</li> </ul>	ia ijan as n desh los s m		
Selection mode preferences		Bhutar Bolivia		Cancel	~

references							×
lection Select	ction						
Choo	se selection dimensio	n attributes					
	Dimensions						
	ountry Species Fishi	ng area. Unit					
	Dimension:	Fishing area					_
	Concept	Name	Description			Edit	
	FAO major fishing	Name	Name				
		Name	Name				
	Ocean	Name	Name				
	Custom group	Name	Name				
	Fishing area region	Name	Name				
	Oceanic area	Name	Name				
	<				>		
	Dimension values filt	er () All () Only those r () Custom gro					
				Restore <u>D</u> efault	ts	<u>A</u> pply	,
				Apply and Close		Cancel	

It will bring up the Selection Preferences window:

A **Dimension value filter** can be defined for each of the **Dimensions**. The filter controls the list of items shown in the **Time series filtering** window.

Dimension values filter	
	Only those referenced
	⊖ Custom group

All will show all items included in that particular workspace.

**Only those referenced** will show only reference objects which appear in the timeseries.

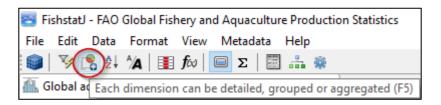
**Note:** to apply new settings, a restart of FishStatJ is required.

# 6.2.Aggregate

The **Aggregate** function is available once a dataset is open. It can be accessed (i) from the **Data** menu...

😇 FishstatJ	- FAO Global Fishery and Aquaculture Production Statistics							
File Edit	Data Format View Metadata Help				Help			
) 🏹 🔘	Filte	Filter F4						
ଲ Global a		Aggregate F5					3	
Country (C	Each dimension can be detailed, grouped or aggregated							
Afghanista	Sort.					F/	d waters	Freshv
Afghanista	Top/	Top/Other F8		F8	d waters	Freshv		
Albania	Curt	<u> </u>		and w	Freshv			
Albania	Custom groups Ctrl+G		and w	Freshv				
Albania	Calculated columns		Ctr	I+F6	and w	Freshv		

...and (ii) from the Aggregate icon in the dataset toolbar:



🕵 Time series aggregation	🗏 Time series aggregation 🛛 🗌 🗙						
Time series aggregation							
Select the level of aggregation for each dimension							
CountryDetailedHandpickedGroupedContinentAggregatedContinent							
Species       Detailed       Grouped       Aggregated       CPC class	2						
Detailed       Handpicked         Grouped       Fishing area region							
Production source         Detailed       Handpicked         Grouped       Production source         Aggregated       Production source							
ОК		Cance	el				

FishStatJ memorizes aggregation settings for each dataset.

On the **Time series aggregation** popup window, three modes of aggregation are available for each data dimension.

- When **Detailed** is selected, the dimension is effectively not aggregated.
- When the user selects **Grouped**, the aggregation can be made on the basis of each individual group associated with the dimension. Groups can also be **Handpicked**.

Country Detailed Grouped	Handpicked	0
Aggregated	Continent 🗸	
	Continent	
Species	Economic class	N7
Detailed	Economic group	0
Grouped	Fishery commission	18
Aggregated	Geographical region	<b>•</b>
	Custom group	

• When **Aggregated** is selected, all the data associated to a given dimension is aggregated.

As an example, grouping the Country dimension by Continent while aggregating Species and Fishing area, produces the following result:

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics				
File Edit Data Fo	ormat View Metada	ta Help		
🎯   🈼 🕵 💱 🖄	🏥 fω   🥅 Σ	📰 🚠 🏶		
ଲ Global capture pro	duction - Quantity (19	50 - 2016) 🖾		
Country (Continent)	Species (ASFIS spe	Fishing area (FAO	Unit (Unit)	
Africa	All	All	Tonnes	
Americas All		All	Tonnes	
Asia All		All	Tonnes	
Europe	All	All	Tonnes	
Oceania	All	All	Tonnes	
Others	All	All	Tonnes	

# 6.3.Columns...

This function allows the user to change the columns (attributes) that are used to view the dataset. A **Preferences** panel is used, because the settings are remembered.

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics				
File Edit	Data Format View Metada	ta Help		
📦   🈼 (	Filter	F4		
航 Global c	Aggregate	F5		
Country (C	Columns	F6	3 (FAO	Unit (U
Africa	Manage visible columns	F7		Tonnes
Americas	top/outer	F8		Tonnes
Asia	Contrary and the			Tonnes
Europe	Custom groups	Ctrl+G		Tonnes
Oceania	Calculated columns	Ctrl+F6		Tonnes
Others	All	All		Tonnes

The  ${\ensuremath{\textbf{Columns}}}$  function can be accessed (i) from the  ${\ensuremath{\textbf{Data}}}$  menu...

... and (ii) from the toolbar by clicking on the **Columns icon**.

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics
File Edit Data Format View Metadata Help
🎯   🍹 😤 ዿ፥ 🕻 🚺 fω   🔲 Σ   📰 🚠 🏶
Global capture product Manage visible columns (F6)

ensions ods	Dimensions			
us	Choose visible dimen	sion attributes		
	▼ Dimensions			
	Country Species	Fishing area Unit		
	Dimension:			Country
	Concept	Name	Description	New
	Continent	Name	Name	Edit
				Remove
				_
				_
	<			>
	<			>
			Restore <u>D</u> efaults	<u>A</u> pply
			Apply and Close	Cancel

For each dimension, columns can be added, modified and removed by clicking on the **New...**, **Edit...** and **Remove...** buttons, respectively.

**Note**: For species, when the common name is not available, the scientific name will be shown instead.

**Note:** When a dimension is aggregated, all attributes in that dimension are changed for the duration of the aggregation setting to show the aggregation group.

For example if you configure to display Country(Name) and Country(ISO3-Code) and then aggregate by Continent, both columns show Continent(Name) for as long as the aggregation is active.

When creating a new column or modifying an existing one, the Concept used to display a given Dimension can be changed by selecting **Concept**:

2	×	(
Dimension column settin	gs	
Concept	Country	3
Attribute	Continent Country	ď
Alternate attribute	Economic class Economic group Fishery commission Geographical region	
Use an alternate attribute		
Alternate attribute	FAO 12 characters code 🗸 🗸	
	↓	
	OK Cancel	

For each Concept, the **Attribute** can be selected:

Dimension column setting	gs
Concept	Country
Attribute Alternate attribute Use an alternate attribute Alternate attribute	Name FAO 12 characters code ISO2 code ISO3 code Internal identifier Name Official name UN code
	OK Cancel

Example: for the **Species** dimension, the common names used to display species can be replaced with the corresponding scientific names by selecting the **Scientific name** attribute.

Periods are the years on display, which may be changed, as shown below:

🔁 Preferences		_		×
Dimensions	Periods			
Periods	Choose visible observation periods			
	✓ Periods			
		Jncheck sel	ection App	
	Apply and	Close	Cance	el

## 6.4.Sort...

The Sort function can be accessed (i) from the Data menu...

🔁 Fis	😆 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File	Edit	Data	Format	View	Metadata	Help		
	V (	Filter				F4		
📶 Glo	obal c	Aggregate				F5		
Coun	try (C	Columns				F6	) (FAO	Unit (Unit)
Africa			Sort			F7		Tonnes
Amer	icas	Ch	ange sort o	order		F8		Tonnes
Asia		_	Custom a	oune	0	Ctrl+G		Tonnes
Europ	e	Custom groups					Tonnes	
Ocea	nia		Calculated	colum	ns C	trl+F6		Tonnes
Other	s		All		A	1		Tonnes

... and (ii) from the toolbar by clicking on the **Sort icon**.

😴 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics
File Edit Data Format View Metadata Help
🍘
Global captu Change sort order (F7) (1950 - 2016)     〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇 〇

The **Sort** window allows to choose how to sort the data. Sorting can be different from the columns shown on the display: for example it is possible to display the Species dimension by ISSCAP group, but sort it by Commodity. The sort ordering (i.e. ascending or descending) is selected using the **Direction** options on the right end of the window.

				×
Sort				
Choose th	e data sorting criteria.			
	Dimension/Year	Concept	Attribute	Direction
Active 🗸	Country ~	Country ~	Name $\checkmark$	
	Dimension/Year	Concept	Attribute	Direction
Active 🗸	Species ~	ASFIS species $\sim$	Name ~	● ੈ↓
	Dimension/Year	Concept	Attribute	Direction
Active 🗸	Production area $\sim$	major fishing area $$	Name $\sim$	● Ž↓ ○ Ž↓
	Dimension/Year	Concept	Attribute	Direction
Active 🗸	Production source $$	production source $$	Name $\sim$	● Ž↓ ○ Ž↓
	Dimension/Year	Concept	Attribute	Direction
Active 🗸	Unit ~	Unit v	Name $\sim$	◉ ੈ↓
		ОК	Restore defaults	Cancel

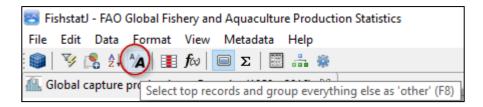
When using multiple sorting criteria, higher priority will be given to the criteria that are positioned higher in the list order.

# 6.5.Top/Other...

The Top/Other function can be accessed (i) from the Data menu...

😇 FishstatJ	- Fao	Global Fis	hery and	d Aquacult	ure Produ	ction Statis	tics
File Edit	Data	Format	View	Metadata	Help		
i 📦   🈼 (		Filter			F4		
📶 Global c		Aggregate			F5		
Country (C		Columns			F6	a (FAO	Unit (
Africa		Sort			F7		Tonn
Americas	N	Top/Other			F8		Tonn
Asia	- 54				and the second	lan an latha	Tonn
Europe	Sei	ect top rec	ords an	a group ev	erytning e	else as 'othe	er_bnn
Oceania		Calculated	colum	ns (	Ctrl+F6		Tonn

... and (ii) from the toolbar by clicking on the **Top/Other icon**.



The **Top/Other** menu allows selecting records by the following criteria:

- **Top** [number] of records;
- **Top** [percentage] of records; or
- records greater than [cut-off value].

🖄 Top/Other selection	— 🗆	×
Top/Other selection		
Select top records and group	s everything else as "Other"	
Dataset: Global production by	y production source	
by field	1950	$\sim$
by measure	Number	$\sim$
All records		
() Тор	records	
O Records comprising	percent of total	
⊖ Values	and greater	
	OK Cancel	

You can enter selection value (number of records/percent of records/value greater). All records that do not meet the criteria are aggregated into others, this is why the function is called Top/Other.

🕼 Global production by production source - Quantity (1950 - 2016) 🔀							
Country (Country) Species (ASFIS spe Production area (F Production source Unit (Unit) 2009 2010							
Indonesia	Eucheuma seawee	Pacific, Western C	Aquaculture prod	Tonnes	'91688	3399436	453
Others	Others	Others	Others	Others	73925	163522898	171409

As an example, selecting the top 10 records for the year 1975 is shown below.

🗟 Top/Other selection		—		$\times$
Top/Other selection				
Select top records and group	os everything else a	s "Other"		
Dataset: Global production b	w production source	re		
by field	1975			$\sim$
by measure	Tonnes			$\sim$
⊖ All records				
Top	10	records		
○ Records comprising		percent of	total	
◯ Values		and greate	er	
	ок		Cancel	

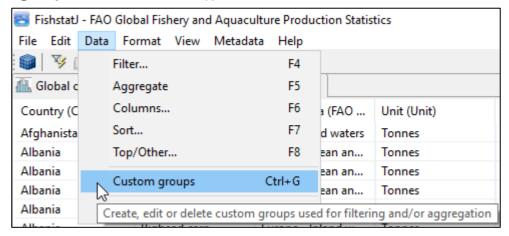
**Note:** The **Top/other** function automatically applies a filter for the selected measure; because different measures cannot be compared.

For example: The capture dataset contains measure Tonnes and Numbers. Selecting the measure (Tonnes, as shown) will filter by tonnes.

# 6.6.Custom groups

The **Custom groups** function allows the user to define specific groups of countries, species, fishing areas, and measures. Typically, such groups are created by users to avoid repeated filtering for groups that are part of common workflows.

Custom groups can be accessed (i) from the Data menu...



... and (ii) from the toolbar by clicking on the **Custom groups icon**.

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics
File Edit Data Format View Metadata Help
🗐   🍹 😤 💱 🖍   🏢 🎜   🥅 Σ   🖾 🌦
Global capture production - Quantity (1950 - 20 Create, edit or delete custom groups used for filtering and/or aggregation (Ctrl+G)

Note: The Custom groups menu item is only available when a dataset is open.

🚆 Custom groups manager	×
Custom groups Create, edit or delete custom groups used for filtering and/or	aggregation
Country Species Fishing area Unit	
Africa South of Sahara Commonwealth of Independent States European Union (28) USSR, Former Area of Latin America and the Caribbean OECD - Organisation for Economic Co-operation and Dev Group of 77 ASEAN - Association of Southeast Asian Nations WAEMU - West African Economic and Monetary Union Countries not in current use	Rew Rew Rew Copy
	OK Cancel

A number of custom groups are predefined for some time series elements. The above screen shows the custom groups for the **Country** dimension, while the image below shows custom groups that already defined for the **Species** dimension.

🚠 Custom groups manager	×
Custom groups	
Create, edit or delete custom groups used for filtering and/or aggregation	
Country Species Fishing area Unit	
Fish, crustaceans, molluscs, etc.	
Aquaculture species	7
/ Edit	
Сору	-
	_
OK Cancel	

When a new custom group is to be created with the **New...** button, the **New custom** group definition window appears on the screen.

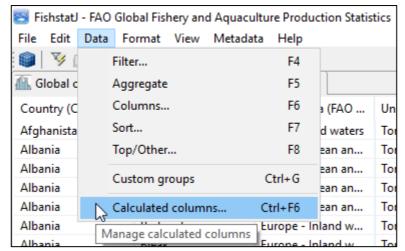
🔁 New custom group definition			×
Include		Exclu	Ide
When no selection is made all items will be included		Afghanistan Albania Algeria American Samoa Andorra Angola	^
	Countries by continent <     Africa <     Americas <     Antarctica <     Asia <     Europe <     Oceania	Anguilla Antarctica others Antarctica others Antarctica others Argentina Argentina Aruba Australia Australia Austria Azerbaijan Bahamas Bahrain Bangladesh Barbados Belarus Belgium-Luxembourg Belize	
Selection mode preferences         Custom group name         English       French         Spanish       Arabic         Chinese       Russ         Custom group description         English       French         Spanish       Arabic         Chinese       Russ			
		ОК	Cancel

When an existing custom group requires editing with the **Edit...** button, the **New custom group definition** popup is presented with the existing group members listed in the **Include** field.

A **Custom group name** and **Custom group description** can be entered in the lower part of the window. As a minimum the English field should be filled.

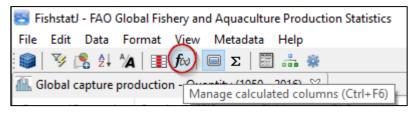
# 6.7.Calculated columns...

The **Calculated columns** function allows the user to create additional columns that are built from the original dataset columns.



Calculated columns can be accessed (i) from the Data menu...

... and (ii) from the toolbar by clicking on the **Calculated columns icon**.



When this function is accessed, a **Calculated columns Preferences** window appears, where the user can create or edit calculated columns is displayed as shown below:

📴 Preferences			_		×
Calculated columns	Calculated colu	mns			
	Manage calculate	d columns properties			
	Calculated colu	mns	_		
	Function	Description		New Edit	
				Remove.	
	<		>		
		Restore <u>D</u> efa	ults	Appl	у
		Apply and Clos	e	Cancel	

Calculated columns may be created (**New...**) or edited (**Edit...**) by clicking on the corresponding buttons. This opens the **Calculated columns definition** popup window.

8			Х
Calculated columns of	lefinition		
Define a new calculated	d column 🖓		
Column name	Arithmetic mean		
Function	Arithmetic mean		$\sim$
	Computes the arithmetic mean of mean = sum(x_i) / n where n is th	the set of values. Uses the definitional formula: e number of observations.	^
			<
Parameters			
Skipping parameters		Function parameters	
Skip unknown values	🔾 Yes 🖲 No		
Skip estimated values	🔾 Yes 🖲 No		
Skip negligible values	🔾 Yes 🖲 No		
Skip zero values	🔿 Yes 🖲 No		
		OK Cancel	

Many statistical functions are available for calculated columns, as shown below:

24		×
Calculated columns of Define a new calculated		
Column name	Arithmetic mean	
Function Parameters Skipping parameters Skip unknown values Skip estimated values	Regression slope confidence interval	γ Γ3
Skip negligible values Skip zero values	Regression slope correlation significance Regression slope standard error Root mean square Second central moment Skewness Standard deviation Sum Third central moment Variance	
	ОК	Cancel

When a calculated column is created, it is shown on the right side of the dataset panel:

_	lobal Fishery and Aqua ormat View Metada			itistics				- 0	×
	<b>Α</b>   <b>ΙΙ</b> <i>f</i> ω   <b>Ξ</b> Σ		- · · · ·						
	oduction - Quantity (19		1					🗩 🖬 🗎 🗖	Ē
Country (Country)	Species (ASFIS spe	^	1950	1951	1952	1953	^	Arithmetic mean	7
Afghanistan	Freshwater fishes		100	100	100	100		703.73	
Albania	Angelsharks, sand							8.16	
Albania	Atlantic bluefin tu		-	-	-	-		2.69	
Albania	Atlantic bonito							5.01	
Albania	Barracudas nei							0.33	
Albania	Bighead carp		-	-	-	-		2.12	_
Albania	Bleak							87.99	_
Albania	Blue and red shrimp							1.55	
Albania	Blue whiting(=Po							0.33	
Albania	Bluefish							0.25	
Albania	Bogue							113.64	_
Albania	Caramote prawn							20.15	_
Albania	Catsharks, nurseh							0.1	
Albania	Common carp							113.09	
Albania	Common cuttlefish							21.39	
Albania	Common dace		-	-	-	-		0.7	
Alhania	Common denter	×					×	5.97	-
C	>	<					>	22.00	

# 7.Format Menu

# 7.1.Column width

😇 FishstatJ - FAO Global Fishery and Aquaculture Productio								
File <u>E</u> dit D <u>a</u> ta	<u>F</u> ormat	<u>V</u> iew	Metadata	Help				
i 📦   🎯 🏂 🧍	Column width							
📶 Global capture	Customize observation column with							
Country (Country)			nd Colors	columr	ea (FA			

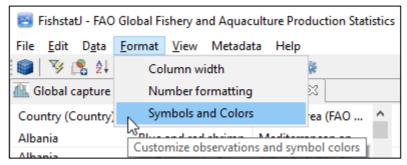
Selecting **Column width** will take the user to the **Data display** tab of the **Preferences** window. See section 5.4.2 for more information.

## 7.2.Number formatting

🗃 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics								
File <u>E</u> dit D <u>a</u> ta	<u>Format</u> <u>V</u> iew Metadata Help							
🎯   🍞 🕵 斜	📦 🈼 😫 Column width							
🚠 Global capture	Number formatting	×						
Country (Country)	Customize observations number	display ^						

Selecting **Number formatting** will take the user to the **Data display** tab of the **Preferences** window. See section 5.4.3 for more information.

## 7.3.Symbols and Colors



Selecting **Symbols and Colors** width will take the user to the **Data display** tab of the **Preferences** window. See section 5.4.4 for more information.

# 8.View Menu

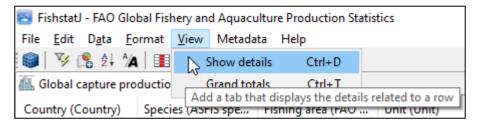
The **View** menu is only enabled when a dataset is open, otherwise it is dimmed (not available).

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics									
File <u>E</u> dit D <u>a</u> ta <u>F</u> ormat	<u>V</u> iew Metadata	Help							
🎯   🍞 🕵 🏞  🔳	Show details	Ctrl+D							
📶 Global capture productio	Grand totals	Ctrl+T							

#### 8.1.Show details

Selecting or deselecting this option will turn on or off the detailed information that is displayed at the bottom of the FishStatJ main display.

The Show details option can be toggled on and off (i) from the View menu...



... and (ii) from the toolbar by clicking on the Show details icon.

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File <u>E</u> dit D <u>a</u> ta <u>F</u> ormat <u>V</u> iew Metadata Help							
i 📦   🦻 😤 ≙∔ 🗛   🎫 f∞ 间 Σ   🖾 🚢 🗰							
Global capture production - Qua Add a tab that displays the details related to a row (Ctrl+D)							

Turning on this option will reduce the number of time series records on display. On the image below, the **Row Details** tab is turned on.

😇 FishstatJ - FAO G	lobal Fishery and Aquad	ulture Production Stat	tistics				- 🗆	×
File <u>E</u> dit D <u>a</u> ta <u>F</u> o	ormat <u>V</u> iew Metada	ta Help						
🍘   🎯 🅦 🏦 🏄	🖠 📑 <i>f</i> ω 🛛 🔲 Σ 🕇	📰 🚠 🏶						
强 Global capture pro	oduction - Quantity (19	50 - 2016) 🖂					🗩 🌃 🗎	
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Albania	Bluefish	Mediterranean an						
Albania	Bogue	Mediterranean an						
Albania	Caramote prawn	Mediterranean an						
Albania	Catsharks, nurseh	Mediterranean an						
Albania	Common carp	Europe - Inland w						
Albania	Common cuttlefish	Mediterranean an						
Albania	Common dace	Europe - Inland w		-	-	-	-	
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Albania	Common octopus	Mediterranean an	× .					
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				21249 f	iltered rows		386M of 1005	M [

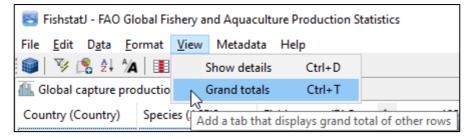
Deselecting this option will remove the 'details' shown at the bottom of the FishStatJ main display. In the image below, the details are not displayed:

🔁 FishstatJ - FAO G	lobal Fishery and Aquad	ulture Production Stat	istic	s				- 🗆	X	(
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Albania	Bluefish	Mediterranean an								
Albania	Bogue	Mediterranean an								
Albania	Caramote prawn	Mediterranean an								
Albania	Catsharks, nurseh	Mediterranean an								
Albania	Common carp	Europe - Inland w								
Albania	Common cuttlefish	Mediterranean an								
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Albania	Common sole	Mediterranean an								
Albania	Common spiny lo	Mediterranean an								
Albania	Common squids	Mediterranean an								
Albania	Croakers, drums nei	Mediterranean an								
Albania	Crucian carp	Europe - Inland w								
Δlhania	Deen-water rose s	Mediterranean an	<b>×</b>							'
C		>		<					>	

## 8.2.Grand totals

Activating **Grand totals** will create one or two (depending on the dataset) additional tabs in the FishStatJ display that show grand totals for the time-series.

The Grand totals option can be toggled on and off (i) from the View menu...



... and (ii) from the toolbar by clicking on the Grand totals icon.

📷 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File <u>E</u> dit D <u>a</u> ta <u>F</u> ormat <u>V</u> iew Met <u>a</u> data Help							
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Global capture production - Quantit Add a tab that displays grand total of other rows (Ctrl+T)							

The new tab(s) will be opened at the bottom of the window, as shown on the image below:

🛐 FishstatJ - FAO GI	lobal Fishery and Aquac	ulture Production St	atistio	cs					_		×	
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📶 Global capture pro	oduction - Quantity (19	50 - 2016) 🖾							ø			3
Country (Country)	Species (ASFIS spe	Fishing area (FAO .	. ^		1950	195	1	1952		1953		^
Albania	Blue and red shrimp	Mediterranean an										
Albania	Blue whiting(=Po	Mediterranean an										
Albania	Bluefish	Mediterranean an										
Albania	Bogue	Mediterranean an										
Albania	Caramote prawn	Mediterranean an										
Albania	Catsharks, nurseh	Mediterranean an										
Albania	Common carp	Europe - Inland w										
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Σ Global capture pro	oduction - Number <b>Σ</b>	Global capture proc	luctio	on - Ton	nes 🛛							3
												~
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1957 29377727 1	1958 30047392 1959	32396833 1960	3479	0181	1961	38630192	1962	42035679	1963	42996371	.1	
1964 47586827.1 1	1965 48653613.4 1966	52568635.8 1967	5602	20668	1968	59336231	1969	57903206	1970	6388681	6	v
		Record n	o. 15	of	2124	9 filtered rows	;		4481	VI of 1005	M	Ū

For example, the **Global production by production source - Quantity** dataset (shows above) has two Grand total tabs (**Number** and **Tonnes**) because two types of units can be used to display the data.

**Note:** When selecting a grouped aggregation (refer to section 6.2) which has overlapping group members the total shown is not the sum of the data on display, but the sum of the underlying raw data. Overlapping means, that a dimension (for example country) of a statistical observation is present in more than one group. In this case, the observations (for example catch) of this country are counted for each of the groups of which the country is a member; but are only counted once for the total.

Examples of overlapping groups are economic groups or RFB (ac country can be member of several regional fishery bodies).

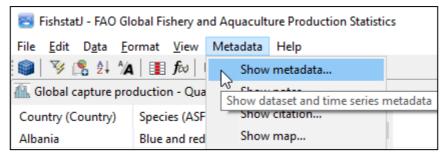
# 9.Metadata Menu

The **Show notes...**, **Show citation...** and **Show map...** items are enabled depending on the attachments that are available for the current dataset.

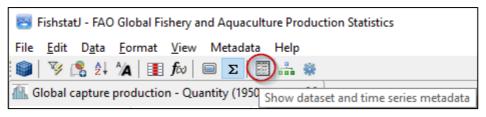
#### 9.1.Show metadata...

Selecting this option will display the metadata about the time-series that is selected within FishStatJ.

Metadata can be accessed (i) from the Metadata menu...



... and (ii) from the toolbar by clicking on the Metadata icon.



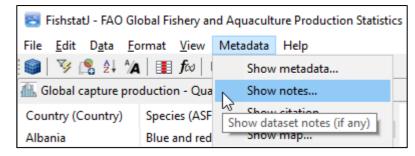
#### An example of the window showing metadata is shown below:

etadata						No.
Global capture p	production - Quantity	y (1950 - 2016)				
letadata Dimer	sions Attachments	time series				
ilobal capture p	production					
Country Species	s Fishing area Unit					
Dimension Co	untry A	cronym COUNTRY				
Description Co	untry or territory					
Concept Co	untry A	cronym COUNTRY				
Description Co	untry or territory					
UN_CODE	ISO_3_CODE	NAME.EN	NAME.FR	NAME.ES	ISO_2_CODE	ALPHA12_C ^
						_
0	EUR	European Union	Union Europé	Unión Europea	EU	EU
0 004	EUR AFG	European Union Afghanistan	Union Europé Afghanistan	Unión Europea Afganistán	EU AF	EU Afghanistar
-						
004	AFG	Afghanistan	Afghanistan	Afganistán	AF	Afghanistar
004 008	AFG ALB	Afghanistan Albania	Afghanistan Albanie	Afganistán Albania	AF	Afghanistar Albania
004 008 010	AFG ALB ATA	Afghanistan Albania Antarctica oth	Afghanistan Albanie Antarctique a	Afganistán Albania Antartida otros	AF AL AQ	Afghanistar Albania Antarctica
004 008 010 012	AFG ALB ATA DZA	Afghanistan Albania Antarctica oth Algeria	Afghanistan Albanie Antarctique a Algérie	Afganistán Albania Antartida otros Argelia	AF AL AQ DZ	Afghanistar Albania Antarctica Algeria
004 008 010 012 016	AFG ALB ATA DZA ASM	Afghanistan Albania Antarctica oth Algeria American Sam	Afghanistan Albanie Antarctique a Algérie Samoa améric	Afganistán Albania Antartida otros Argelia Samoa Americ	AF AL AQ DZ AS	Afghanistar Albania Antarctica Algeria Amer Samo
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004 008 010 012 016 020 024 028 031	AFG ALB ATA DZA ASM AND AGO ATG AZE	Afghanistan Albania Antarctica oth Algeria American Sam Andorra Angola Antigua and B Azerbaijan	Afghanistan Albanie Antarctique a Algérie Samoa améric Andorre Angola Antigua-et-Ba Azerbaïdjan	Afganistán Albania Antartida otros Argelia Samoa Americ Andorra Angola Antigua y Bar Azerbaiyán	AF AL AQ DZ AS AD AO AG AZ	Afghanistar Albania Antarctica Algeria Amer Samo Andorra Angola Antigua Bar Azerbaijan
004 008 010 012 016 020 024 028 031 032	AFG ALB ATA DZA ASM AND AGO ATG AZE	Afghanistan Albania Antarctica oth Algeria American Sam Andorra Angola Antigua and B Azerbaijan	Afghanistan Albanie Antarctique a Algérie Samoa améric Andorre Angola Antigua-et-Ba Azerbaïdjan	Afganistán Albania Antartida otros Argelia Samoa Americ Andorra Angola Antigua y Bar Azerbaiyán	AF AL AQ DZ AS AD AO AG AZ	Afghanistar Albania Antarctica Algeria Amer Samo Andorra Andorra Angola Antigua Bar Azerbaijan Argentina
004 008 010 012 016 020 024 028 031 032	AFG ALB ATA DZA ASM AND AGO ATG AZE ARG	Afghanistan Albania Antarctica oth Algeria American Sam Andorra Angola Antigua and B Azerbaijan	Afghanistan Albanie Antarctique a Algérie Samoa améric Andorre Angola Antigua-et-Ba Azerbaïdjan	Afganistán Albania Antartida otros Argelia Samoa Americ Andorra Angola Antigua y Bar Azerbaiyán	AF AL AQ DZ AS AD AO AG AZ	Afghanistar Albania Antarctica Algeria Amer Samo Andorra Andorra Angola Antigua Bar Azerbaijan Argentina

#### 9.2.Show notes...

Selecting this option will display the notes attached to a dataset. Notes contain descriptions about the time-series that is selected within FishStatJ.

Notes can be accessed (i) from the Metadata menu...



... and (ii) from the toolbar by clicking on the **Notes icon**.

📶 Global production by production source - Quantity (1950 - 2016) 🛛	
---	--

**Note:** The **Show notes** menu item is enabled and the **Notes icon** is shown when the current dataset has notes embedded.

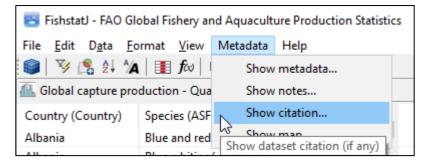
#### An example of the **Notes window** is displayed below:

× ×
Global production - General notes
Global production - General notes
GLOBAL FISHERY PRODUCTION
The annual series of total fishery production begin in 1950. Data relate to nominal catch of fish, crustaceans and molluscs, the production of other aquatic animals, residues and plants and catches of aquatic mammals, taken for commercial, industrial, recreational and subsistence purposes from inland, brackish and marine waters. The harvest from mariculture, aquaculture and other kinds of fish farming is also included.
Data include all quantities caught and landed for both food and feed purposes but exclude discards. Catches of fish, crustaceans and molluscs are expressed in live weight, that is the nominal weight of the aquatic organisms at the time of capture. The harvest of aquatic plants is given in wet weight. Data are given in tonnes (=1000 kg), except those for whales, seals and crocodiles, which are given in numbers.
To assign nationality to catches, the flag of the fishing vessel is used, unless the wording of chartering and joint operation contracts indicates otherwise.
Fish, crustaceans, molluscs and all other aquatic organisms included in the database have been classified according to approximately 2309 commercial species items, further arranged within the 50 groups of species constituting the nine divisions of the FAO International Standard Statistical Classification of Aquatic Animals and Plants (ISSCAAP). Starting with the March 2002 release, data included in this dataset reflect a revision of the ISSCAAP groups. This revision affected names and species attribution of groups 33, 34 and 37 of the Marine Fishes division. The taxonomic code descriptors are taken from the " <u>ASFIS list of species for fishery statistics purposes</u> ".
According to the inland or marine area where caught, capture production is also classified into eight major inland fishing areas and 19 major marine fishing areas, internationally established for fishery statistical purposes.
ОК

### 9.3.Show citation...

Selecting this option will display the dataset citation, allowing to copy/paste it for easy reference.

The dataset citation can be accessed (i) from the Metadata menu...



... and (ii) from the toolbar by clicking on the Citation icon.

📶 Global production by production source - Quantity (1950 - 2016) 🛛	) 🖹 🌃 🗖 🗖

**Note**: The **Show citation** menu item is enabled and the **Citation icon** is shown when the current dataset has a citation embedded.

#### An example of the **Citation window** is displayed below:

8	×
Global production by production source - Citation	
This database contains the volume of aquatic species caught by country or area, by species items, by FAO major fishing areas, and year, for all commercial, industrial, recreational and subsistence purposes. The harvest from mariculture, aquaculture and other kinds of fish farming is also included.	
When quoting FishstatJ data, please use the following reference:	
FAO, 2018. Fishery and Aquaculture Statistics. Global production by production source 1950-2016 (FishstatJ). In: FAO Fisheries and Aquaculture Department [online]. Rome. Updated 2018. www.fao.org/fishery/statistics/software/fishstatj/en	
ОК	

#### 9.4.Show map...

Selecting this option will display the map attached to a dataset. Those maps usually represent FAO's fishing areas.

The Map can be accessed (i) from the Metadata menu...

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics					
File <u>E</u> dit D <u>a</u> ta <u>F</u> o	rmat <u>V</u> iew	Meta	adata	Help	
🎯   🎯 🕵 💱 🖄	∎ <i>f</i> ∞		Show	metadata	
📶 Global capture pro	duction - Qua		Show	notes	
Country (Country)	Species (ASF		Show	citation	
Albania	Blue and red	N	Show	map	
Albania	Blue whiting	(1)Sho	w dat	aset map (if any)	
Albania	Rhuefich	one	w dat	uset mup (ir uny)	

... and (ii) from the toolbar by clicking on the **Map icon**.

📶 Global production by production source - Quantity (1950 - 2016) 🛛	

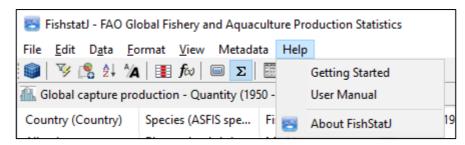
**Note:** The **Show map** menu item is enabled and the **Map icon** is shown when the current dataset has a map embedded.

An example of the **Map window** is displayed below:

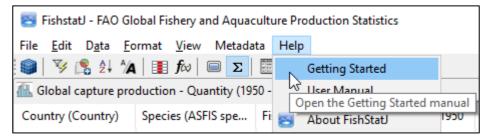


# 10.Help Menu

The **Help** menu is shown below. It gives access to additional tools, preferences and help related to the FishStatJ software.



# **10.1.Getting Started**



The **Getting Started** item from the **Help** menu automatically downloads the Getting Started with FishStatJ manual and opens it. The manual is a portable document format (PDF) file.

- Windows requires Acrobat Reader to open PDF documents
- macOS can open PDF documents using the Preview application

**<u>Note</u>**: When working with unreliable internet access, we suggest to open the manual when an internet connection is available, as this will make it available in case of future connection interruptions.

#### 10.2.User Manual

😇 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics							
File <u>E</u> dit	D <u>a</u> ta <u>F</u> o	ormat <u>V</u>	iew M	etadata	Help		
🎯   🈼 🔮	} ⊉↓ ^∕A	🎫 f	ω   📼	Σ	0	Getting Started	
📶 Global capture production - Quantity (1950 - User Manual							
Country (Co	untry)	Species	(ASFIS s	pe Fi	С Оре	en the FishStatJ user man	ual

The **User Manual** item from the **Help** menu automatically downloads the FishStatJ manual and opens it. The manual is a portable document format (PDF) file.

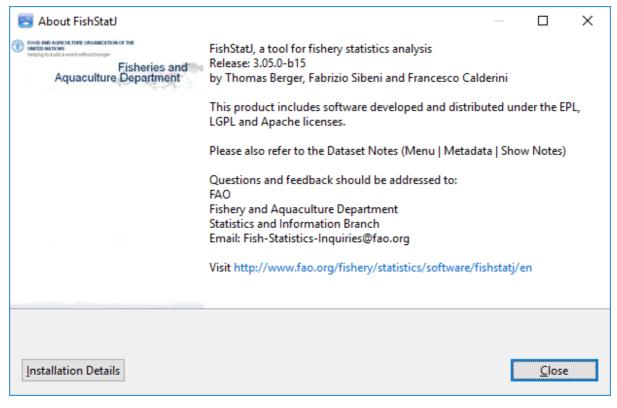
- Windows requires Acrobat Reader to open PDF documents
- macOS can open PDF documents using the Preview application

**Note**: When working with unreliable internet access, we suggest to open the manual when an internet connection is available, as this will make it available in case of future connection interruptions.

# 10.3.About FishStatJ

🗃 FishstatJ - FAO Global Fishery and Aquaculture Production Statistics				
File <u>E</u> dit D <u>a</u> ta <u>F</u> o	ormat <u>V</u> iew Metada	ta Help		
i 🍘   🍞 🕵 24 ⁄	🏢 f 🖉   🔲 🗵	Getting Started		
📶 Global capture pro	duction - Quantity (19	50 - User Manual		
Country (Country)	Species (ASFIS spe	Fi 🛃 🔥 About FishStatJ		
Albania	Blue and red shrimp	Mediteranean an		
Albania	Blue whiting (- Po	Show FishStat Info		

This item presents FishStatJ information about the program version, legal use, and contacts for assistance. The **About FishStatJ** window is shown below:



# 11.Frequently asked questions (FAQ)

#### 11.1.How to export data?

You can export data from FishStatJ in two different ways (for more information, refer to section 5.4):

- You can simply copy a selection of rows and paste it on an Excel file (with the right button menu or with the **CTRL + C** shortcut).
- Or you can go to File → Export selection (CSV file)...

You can configure how data and symbols are exported (or not exported) in **Edit**  $\rightarrow$  **Preferences**  $\rightarrow$  **Data export** (refer to section 5.4.5)

#### 11.2.What does that symbol mean?

FishStatJ uses the following symbols for statistical data:

- ... Data not available; unobtainable; Data not separately available but included in another category
- Nil or zero
- 0 More than zero but less than half the unit used
- F FAO estimate from available sources of information
- nei Not elsewhere included

In FishStatJ, you can configure the color of the symbols in the panel: Edit  $\rightarrow$  Preferences  $\rightarrow$  Data Display  $\rightarrow$  Symbols and Colors (refer to section 4.4.4).

As for data and symbol export to Excel, please be informed that you can configure how data and symbols are exported (or not exported) in:

#### $\textbf{Edit} \rightarrow \textbf{Preferences} \rightarrow \textbf{Data export}.$

**Don't export symbols** is one of the options you can select (refer to section 5.4.5).

#### 11.3.Why am I getting different numbers than those from the FAO Yearbook of Fishery and Aquaculture Statistics/SOFIA?

Trying to cover all products derived from fisheries activities, in both inland and marine waters, the FAO Fishery production datasets (capture and aquaculture), include some products which are not (or not directly) destined to food consumption, such as marine mammals, crocodiles, corals, pearls, mother-of-pearl, sponges and aquatic plants. Those products are excluded from the all country, regional and world

totals presented in FAO Yearbooks of Fishery Statistics as well as other FAO publications.

When viewing time-series data in FishStatJ, in order to obtain the same aggregates you must first filter the dataset using a Custom Group:

- 1. Open the **Time series filtering** window (**Data**  $\rightarrow$  **Filter** or **F4**)
- 2. Click the ASFIS Species tab
- 3. Click the Species selection groups of Yearbook/SOFIA group
- 4. Click Fish, crustaceans, molluscs...

5. Click the single left arrow in order to move all selected species belonging to Fish, crustaceans, molluscs, etc. under the Include panel on the left.

6. Click on the **OK** button. The program will return you to FishStatJ's main window.

The aggregation grouping for capture and aquaculture datasets is mentioned in the dataset notes where applicable. Access to dataset notes is explained in section 9.2.

#### 11.4. FishStatJ working offline?

When the download of the auto-update information fails, FishStatJ produces the following warning:

🔁 FishS	StatJ is working off-line	×
	http://www.fao.org/fishery/static/FishStatJ/current_version.xml a check for application updates and download of data is not possible.	
	Only workspaces installed previously are available.	
	To fix this, please connect to the internet or update firewall settings.	
	ОК	

If there is no internet connection possible, FishStatJ will run but the following functions will not be available:

- The notification of a new program version is not available (Refer to section 12.6 for a detailed description of the auto-update notification, and a description of data download from the internet).
- No workspaces are shown for automatic download: the Manage workspaces dialog only shows workspaces already downloaded/installed (refer to section 3.1)
- Download of the user manual is not possible (refer to section 10.2)

Section 5.4.6 explains Internet access proxy configuration.

# 11.5.Some historical data figures have changed. Why?

Refer to section 12.3 for a discussion on data revisions.

#### 11.6.Where to find detailed notes for each dataset?

Additional information about the statistics presented in each dataset collection are available in the General notes, accessible in **Metadata**  $\rightarrow$  **Show metadata**  $\rightarrow$  **Attachments** (or by clicking on top right button of data panel).

Refer to section 9.2 and 9.3 for viewing dataset notes and data citation.

#### 11.7. How often is the data/application updated?

We publish new data as soon as we receive the complete set from member countries and have completed our verification. Usually, datasets are updated once per year. The release time for Global Capture and Aquaculture Production is in the second quarter every year.

New or updated datasets will automatically show in the **Manage workspaces** menu; refer to section 3.1 for a detailed explanation.

When the FishStatJ application is launched, it will also check for updates – and inform you if there is a new version available for download; refer to section 11.6 for the auto-update notification.

Data update/revisions are explained in section 12.3; internet access is discussed in section 5.4.6.

## 11.8.FishStatJ is being flagged as a virus threat

We have received various reports indicating that the FishStatJ software has been falsely identified as being a virus threat. Indeed, we work hard for FishStatJ to be the best product possible, and we would not knowingly distribute an infected version.

Wikipedia defines a false-positive as a false alarm: <u>wikipedia.org/wiki/</u> <u>False\_positives\_and\_false\_negatives</u>.

If you receive such alert from your antivirus software, we suggest the following actions, in the following order:

- Please send us an e-mail (Fish-Statistics-Inquiries@fao.org), describing the antivirus software used, and the alert message received (this way we can double-check your download, and also warn other users).
- Please inform you virus software vendor and notify them of the 'false positive' indication. The vendor can then quickly investigate (check our download) and release an update to their virus definitions (definitions are patterns to detect infected software).
- If you think FishStatJ is corrupted, the best is to re-download and expand a fresh copy.

NEVER consider deactivating your virus protection - that would be irresponsible in this digital age!

## **11.9.How does FAO assign nationality to catches?**

As established by the United Nations Statistical Commission in 1954, catches are assigned to the country of the flag flown by the fishing vessel. The flag State is also responsible for the provision of the relevant data to FAO and other organizations such as Regional Fishery Bodies (RFBs).

# 11.10.FishStatJ has a Log4j vulnerability?

FishStatJ is an <u>Eclipse RCP (Rich Client Platform)</u> application, and log4j is included in FishStatJ as part of the Eclipse platform.

#### Vulnerability Status:

The vulnerability applies only to log4j2 but Eclipse/FishStatJ uses log4j(-1) v2.12. The safest mitigation for the vulnerability is to remove or disable JNDI, but Log4j does not have any JNDI functionality.

# Log4j lacks JNDI, no mitigation effort is possible, and therefore log4j is not an attack vector.

Keep in mind, FishStatJ is very different from a web-server, where the hacker can input/control what is written to the log. FishStatJ is a data query tool, and there is absolutely no data entry, no text entry, by the user. Furthermore, FishStatJ is a user application – runs in user space; and does not use or require elevated privileges. As such, the log4j update is a low priority for the Eclipse IDE project. Recall, the Eclipse IDE is an open-source project, which has no regular funding/support.

#### Summary:

# The log4j2 vulnerabilities, in particular, CVE-2021-44228 and CVE-2021-44832, do not apply to FishStatJ.

We are constantly updating FishStatJ, and the log4j plugin will be updated to log4j2 as soon as this update for the Eclipse IDE is available.

# 12.More on FishStatJ

# 12.1.FishStatJ legal specifications

The FishStatJ software is provided free of charge to member countries of the Food and Agriculture Organization of the United Nations (FAO). It may be installed on personal or company computers without restriction or license. The statistics contained in this package may be used and published freely provided that the source is cited as FAO.

# 12.2.Bibliographic citation

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When quoting FishStatJ data, please use the reference that you can find in the General Notes attached to each dataset (**Metadata**  $\rightarrow$  **Show metadata**  $\rightarrow$  **Attachments**).

The citation for each dataset is available in the **Metadata**  $\rightarrow$  **Show citation** menu.

The bibliographic citation for FishStatJ is as following:

FAO Fisheries Division, Statistics and Information Branch. FishStatJ: Universal software for fishery statistical time series. Copyright 2020.

## 12.3.Data versioning and Data revisions

Where necessary, the data published in the previous releases of the dataset(s) of fishery and aquaculture statistics are revised.

Where figures in this release differ from those previously published, the amended data represent the most recent version. Some statistics provided to FAO by national offices, in particular those for most recent year, are provisional and may be amended in future editions.4.

An example of the version of FishStatJ is "2020.1.0"

<u>Major version</u>: is the year when the data was released (2017) <u>Minor version</u>: is the release (1) and revision number (0) Occasionally, we find errors, or we receive data from member countries after the release of the FishStatJ workspace. In these rare cases, we release a new revision of the data by increasing the revision number. This way, the new version is automatically visible in the **Workspaces Manager** as a new download. In this case, we would also include an explanation in the dataset notes. Refer to section 9.2 how to view dataset notes.

## 12.4.FishStatJ workspace folder

FishStatJ stores imported workspaces (and application files) in the user home directory:

- For Windows, use the Windows + R shortcut to open the Run command, enter %USERPROFILE%\fishstatj\_workspace and click OK
- For macOS Finder enter ~/fishstatj\_workspace in Go → Go to Folder menu

The information inside workspace folder is described in detail below.

Refer to section 11.5 how to remove (un-install) FishStatJ.

#### 12.4.1.FishStatJ workspaces

Workspaces are stored in the FishStatJ workspace folder. They contain the timeseries data, including the reference data (dimensions), and attachments (maps, dataset notes). There is one folder for each workspace installed.

Workspaces can be deleted permanently from disk, by opening the **Manage workspaces** menu and by using the **Delete** button.

#### 12.4.2.Workspace metadata folder

The FishStatJ application's log and preferences are stored in the workspace folder, in a sub-folder called ".metadata".

The FishStatJ application log is called ".log".

FishStatJ application preferences are saved in this location: .metadata/.plugins/org.eclipse.core.runtime/.settings

**Note**: on macOS files and folders starting with a dot an invisible. To open the folder enter ~/fishstatj\_workspace/.metadata in  $Go \rightarrow Go \ to \ Folder \ menu$ . To show files and folders starting with a dot, press the "Command" + "Shift" + "." (period) keys at the same time.

#### 12.4.3.Workspace manual folder

The FishStatJ manual is downloaded and opened from the manual folder inside the fishstat\_workspace. Refer to section 9.2 for more details on the manual.

# 12.5.Un-installing FishStatJ

FishStatJ can be un-installed by deleting the FishStatJ application folder (macOS: the application icon). The Windows application is usually located at: C:\FishStatJ.

FishStatJ stores imported workspaces (data) in the user home directory; these can be deleted as well:

- For Windows enter %USERPROFILE%\fishstatj\_workspace in the Run menu
- For macOS Finder enter ~/fishstatj\_workspace in Go → Go to Folder menu

FishStatJ is a cross-platform application and therefore does not use the Windowsregistry, it stores all data and settings in the application and user home directory, as described above.

#### 12.6.FishStatJ update notification

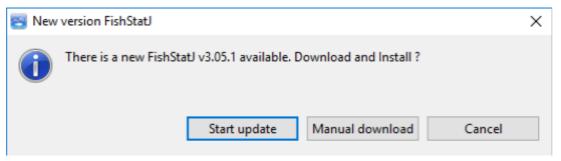
Starting with version 3.01 FishStatJ has automatic update capability built in. At program launch a very small XML file (~1KB) is downloaded from the FAO web-site. If the download of this file fails, FishStatJ will show a warning message (refer to section 10.6– No internet connection) and will continue to work with the data downloaded locally.

The URL download location of the XML file is shown in preferences, refer to section 4.4.6 - Internet Access.

The XML file enables the following 3 functions in FishStatJ, which are described below.

#### 12.6.1. Automatic update notification

When we release a new version of FishStatJ, Windows users will see the following message at program startup; macOS users receive the program update notification shown in 11.6.2:



Clicking the Start update button will start the download of the auto-extract file:

🔄 Progress Information				×
downloading FishStatJ_3.05.1_Installer.exe				
	Cancel	[	Details >>	>

Once the download is complete, FishStatJ quits, and the extraction dialog appears:

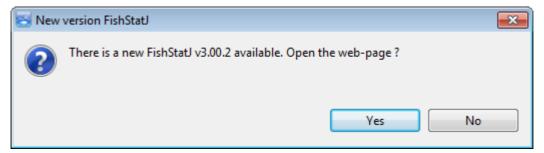


Clicking the <u>Yes</u> button will expand the software, and launch the new version of FishStatJ.

If no internet connection is available at start-up, a message appears (section 10.6–No internet connection).

#### 12.6.2. update notification

When we release a new version of FishStatJ, you will see the following message at program startup:



Clicking the **Yes** button will open the FAO FishStatJ web-page in a web browser. On this page, you find the latest FishStatJ application for download.

**Note:** The user has to perform the download of the application program, and install it on the PC. There is no auto-download or auto-update of the application.

If no internet connection is available at start-up, a message appears (section 10.6–No internet connection).

#### 12.6.3.Workspace download

FishStatJ will show new or updated workspaces in the **Manage workspaces** dialog. Using this dialog, the user can choose which workspace to download and install on the PC.

For a description of the workspace management; please refer to section 3.1-Manage workspaces.

Refer to section 12.3 for an explanation of workspace/data versioning.

Available workspaces, their version and download location are contained in the XML file; if no internet connection is available then only workspaces downloaded and installed previously are shown.

#### 12.6.4.FishStatJ manual download

The first time the user manual is opened, or when a new version is available, the PDF manual is downloaded. The version of the manual and download location of the manual is contained in the XML file.

Refer to section 10.2 (User Manual) for how to open the FishStatJ manual.

The FishStatJ manuals are downloaded to the workspace folder. Refer to section 12.4.3 (FishStatJ manual folder).

When running offline, the manual can only be opened if it was previously downloaded.

# **12.7.Assistance and Contact**

On the FishStatJ web-page (<u>fao.org/fishery/statistics/software/fishstatj/en</u>) you can find

- New program versions for download
- A list of workspaces and their versions available for download using FishStatJ
- A quick-start guide for installing the program
- The download link to this manual
- The e-mail contact for support (fish-statistics-inquiries@fao.org)