name of the dataset: Distribution Atlas of European Trichoptera

dataset short name: DAET

type of dataset (more information): species distribution data

data type: point data/observation data

short description of the dataset/summary:
The Distribution Atlas of European Trichoptera (DAET) database is a collection of about 561,000 occurrence data of caddisflies containing 413,000 datasets of adult Trichoptera from all over Europe (and a few records from Asia and Africa). The data compilation process was initiated by the EU funded BioFresh project (www.freshwaterbiodiversity.eu) through its contingency fund. With the end of BioFresh 2014 work on the database continued, mostly focusing on filling the distribution gaps and an extensive quality control. Occurrence data in the dataset were provided by 74 data holders based on records from more than 400 different caddisfly collectors. Additional data (about 15,000) were gained through literature evaluation. All data will be made available through the Freshwater Biodiversity Data Portal (www.freshwaterplatform.eu) in the first half of 2016.

keywords according to GCMD:

topic: Biosphere

ISO topic category according to ISO 19115:

Biota, Environment, Inland Waters, Location

INSPIRE keywords according to GEMET:
Technical and administrative specifications

data format: Access
operating system: Win 7
data language: English
current access level: restricted access
currently available through GBIF: no
exchange planned: yes
data in data repository: no

Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

yes

update level: others/specify
others/details: For the future a yearly update is planned.

documentation:
type: internal description
language: English

contact details:

metadata contact person:
first, last name: Astrid Schmidt-Kloiber
phone: ++431476545225
email: astrid.schmidt-kloiber@boku.ac.at
institution: BOKU - University of Natural Resources and Life Sciences Vienna, IHG
address: Max Emanuel-Strasse 17
postal code, city: 1180 Vienna
province, state: Vienna
country: Austria
web address: http://www.wau.boku.ac.at/ihg.html?&L=1

technical contact person:
first, last name: Peter J. Neu
phone: ++4965169962120
email: peter.neu@trichoptera-rp.de

scientific contact person:
first, last name: Wolfram Graf
phone: ++431476545221
email: wolfram.graf@boku.ac.at
Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):
- **Astrid Schmidt-Kloiber**
  - contact email: astrid.schmidt-kloiber@boku.ac.at
  - contact institution: BOKU - University of Natural Resources and Life Sciences Vienna, IHG

data contributors to/owners of this dataset:
- single

criteria for using the data in a publication/scientific analysis:
  - The dataset needs to be requested from dataset creator with specific conditions of use.

other/additional criteria:
  - Currently the dataset still needs to be requested from the dataset creator as quality control is ongoing. All data will be made publicly available on the Freshwater Biodiversity Data Portal in the first half of 2016.
  - Note that 74 different persons and institutions have contributed occurrence records to the DAET dataset. Their work has to be acknowledged accordingly whenever data are used.

citation of this dataset:
- **Graf, W., Neu, P. J. & Schmidt-Kloiber, A. (eds.)**
- **Distribution Atlas of European Trichoptera (DAET)**
- year: 2015
- version (if applicable): 24/11/2015

citation of the metadata:
- **Schmidt-Kloiber A., Neu P. J. & Graf W.**
- **Metadata to the Distribution Atlas of European Trichoptera. Freshwater Metadata Journal 9: 1-6**
- year: 2015
- doi (if applicable): https://doi.org/10.15504/fmj.2015.9
General data specifications

regional coverage of the dataset:
  spatial extent of the dataset: **continental**
continents: **Africa, Asia, Europe**

spatial extent (bounding coordinates):
  southernmost latitude [*°]: 27
  northernmost latitude [*°]: 75
  westernmost longitude [*°]: -28
  easternmost longitude [*°]: 70
  minimum altitude: -216 metres
  maximum altitude: 3797 metres

countries:
  Africa: Algeria, Egypt, Morocco, Tunisia
  Asia: Afghanistan, Armenia, Azerbaijan, Cyprus, Georgia, Iran, Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, Pakistan, Syria, Tajikistan, Turkey, Turkmenistan, Uzbekistan
  Europe: Albania, Andorra, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom, Kosovo

comments:
  The Chechen Republic is included within the Russian Federation.
  Only few data are available from Africa and Asia, the main scope of the dataset is Europe.

comments:
  Additional freshwater types: springs, hygropetric habitats.
Site specifications

coordinate system/grid data: latitude/longitude, format: DD
  datum (e.g. WGS84): WGS84
  grid data available: yes
  comments: Some data were only available as grid data (UTM, Gauss Krüger, BN Grid etc.). These data were transferred to WGS84 with unavoidable blur, depending on the specified grid.

site coding available: no

number of sites: >1000
  exact number of sites: 55791

comments: In total the dataset contains 561.187 occurrence records from 55.791 different locations; 413.229 records are adult Trichoptera records formed of 1.708 species (including sub-species).
Biological data

biological data origin: from sampling,
   Data provided by Trichoptera experts from their own collections.
   general compilation,
   Data available from literature and museum collections.
organism group addressed: macro-invertebrates
comments: Occurrence records were contributed by 74 data providers. About 15,000 additional data were generated through literature review.
Sample resolution

**macro-invertebrates:**

**taxonomic resolution:**

<table>
<thead>
<tr>
<th>other taxonomic levels</th>
<th>percentage of species level data</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>sub-species</td>
<td>100</td>
<td>All species are taxonomically linked: order, family, (sub-family), genus, species, (sub-species). Synonyms are included. Percentage of species level data includes the sub-species level.</td>
</tr>
</tbody>
</table>

**taxonomic coding:**

<table>
<thead>
<tr>
<th>taxalist according to</th>
<th>citation</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>coding system</th>
<th>example</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID_fwe</td>
<td>12345</td>
<td>The taxalist of freshwaterecology.info was amended with additional species/sub-species according to recent publications. These taxa will be included in freshwaterecology.info.</td>
</tr>
</tbody>
</table>
Dataset: Distribution Atlas of European Trichoptera

Other specifications

GIS layers, shape files related to the dataset:

- species distribution
- political borders layer
- water lines/water areas layer
- altitudinal layer
- ecoregions according to Illies layer

availability of photos: no
availability of maps: yes

Were any quality control procedures applied to your dataset?

- The underlying taxalist was checked by the freshwaterecology.info Trichoptera experts and currently holds 1708 species (including sub-species).
- Distribution data were in a first step quality controlled through GIS routines. In a second step the occurrence records were quality checked by experts, namely Hans Malicky and Wolfram Graf.
- To avoid quality issues regarding the identification of larvae, the focus of the dataset is on adult data.
- In cases of recent differentiations to sub-species older data may contain ambiguous species.