

News from the Data Infrastructure



Who I am?

- **Name:**

Till (Kirchner)

- **Position:**

Responsible for the Data Infrastructure of ICP Forests

Head of the Forest Data Centre at the Thünen Institute of Forest Ecosystems

- **Profession:**

Forestry / Forest Information Technology

Spezialized in Scientific/Spatial Data Infrastructure design

Topics

- **Towards a transparent (Data) Infrastructure**
 - Project DB – **TFM Athens 2014**
 - Literature DB – **TFM Athens 2014**
 - List of Experts
 - Documentation of DB changes – **TFM Athens 2014**
 - **NEW** Online Documentation
- **Documentation of Data Deliveries – TFM Athens 2014**
- **Data Policy – PCG Meeting 2014**

Towards a transparent (Data) Infrastructure

Project DB - TFM Athens 2014

<http://icp-forests.net/page/project-list>



Show entries

Search:

ID	TITLE	NAME	INSTITUTION	CATEGORY	Info
72	2000 - 2014 ground level ozone concentrations and exposures across Europe	Marcus Schaub	Swiss Federal Institute for Forest, Snow and Landscape Research	internal	
71	Study marginal populations of Pinus uncinata	Elena Moreno	Universidad Politécnica de Madrid	external	
70	Preparation of the 2nd version of the aggregated soil database of the Level II second soil survey	Dr. Stefan Fleck	Northwest-German Forest Research Station	internal	
67	LAI-estimations with allometry, litter collections, and optical measurements in relation to stand properties and microclimate	Dr. Stefan Fleck	Northwest German Forest Research Institute (NW-FVA)	internal	
66	EURODELTA III [Intercomparison of European Air Quality Models]	Mark R. Theobald	Centre for Energy, Environmental and Technological Research (CIEMAT)	external	
65	ÉCLAIRE IP [Effects of Climate Change on Air Pollution and Response Strategies for European Ecosystems]	Mark R. Theobald	Centre for Energy, Environmental and Technological Research (CIEMAT)	external	
64	Reproductive productivity and masting behaviour in multiple tree species from the European forests	Marcos Fernández-Martínez	CREAF - Center for Ecological Research and Forestry Applications	external	

Project DB - TFM Athens 2014

http://icp-forests.net/page/project-list



Show 10 entries

Search:

Filter on Surveys

CI	CC	SI	BSI	SO	BSO	SS	F1	FO	G1	GR	DP	DH	LA	LF	MM	BD	GV	GB	PH	AQ	OZ	SW	Y1	SI	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

All No








All Yes

Reset

70	second soil survey	Dr. Stefan Fleck	Northwest-German Forest Research Station	internal	
67	LAI-estimations with allometry, litter collections, and optical measurements in relation to stand properties and microclimate	Dr. Stefan Fleck	Northwest German Forest Research Institute (NW-FVA)	internal	
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Project DB - TFM Athens 2014

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TITLE:2000 - 2014 ground level ozone concentrations and exposures across Europe
NAME:Marcus Schaub
EMAIL:marcus.schaub@wsl.ch
INSTITUTION:Swiss Federal Institute for Forest, Snow and Landscape Research
CATEGORY: internal
START_DATE:2015-03-01
END_DATE:2016-02-28
SURVEY(S): AQ, OZPDF: [Project_description_72.pdf](#)

Should include INTERNAL EVALUATIONS as well

Literature DB - TFM Athens 2014

http://icp-forests.net/page/scientific-publications



Show 10 entries

Search:

FIRST_AUTHOR YEAR TITLE JOURNAL Info

FIRST_AUTHOR	YEAR	TITLE	JOURNAL	Info
Jonard, M.	2015	Tree mineral nutrition is deteriorating in Europe	Global Change Biology	→
Talkner, U.	2015	Phosphorus nutrition of beech (<i>Fagus sylvatica</i> L.) is decreasing in Europe	Annals of Forest Science	
Johnson, J.	2015	Base cation budgets under residue removal in temperate maritime plantation forests	Forest Ecology and Management	
De Vos, B.	2015	Benchmark values for forest soil carbon stocks in Europe: Results from a large scale forest soil survey	Geoderma	
Starr, M.	2014	Weathering release rates of base cations from soils within a boreal forested catchment: variation and comparison to deposition, litterfall and leaching fluxes	Environmental Earth Sciences	
Suz, L. M.	2014	Environmental drivers of ectomycorrhizal communities in Europe's temperate oak forests	Molecular Ecology	
De Marco, A.	2014	Future impacts of nitrogen deposition and climate change scenarios on forest crown defoliation	Environmental Pollution	

Expertlist - TFM Athens 2014

<http://icp-forests.net/page/expertlist>



Show entries

Search:

COUNTRY FIELD INSTITUTION NAME EMAIL

COUNTRY	FIELD	INSTITUTION	NAME	EMAIL
Albania	NFC	Forest and Pasture Research Institute	Julian Beqiri	jbeqiri@gmail.com
Albania	NFC	National Environment Agency	Kostandin Dano	kostandindano@yahoo.com
Andorra	NFC	Ministeri de Turisme I Medi Ambient	Silvia Ferrer	silvia_ferrer_lopez@govern.ad
Andorra	NFC	Ministeri de Turisme I Medi Ambient	Anna Moles	Anna_Moles@govern.ad
Andorra	Database	Ministeri de Turisme I Medi Ambient	Silvia Ferrer	silvia_ferrer_lopez@govern.ad
Andorra	Database	Ministeri de Turisme I Medi Ambient	Anna Moles	Anna_Moles@govern.ad
Austria	NFC	Bundesforschungs- und Ausbildungszentrum für Wald, Naturgefahren und Landschaft (BFW)	Ferdinand Kristöfel	ferdinand.kristoefel@bfw.gv.at
Austria	NFC	Bundesforschungs- und Ausbildungszentrum für Wald, Naturgefahren und Landschaft (BFW)	Markus Neumann	markus.neumann@bfw.gv.at

Should include 1 expert per survey for each Partner

Docu of Changes - TFM Athens 2014

Submissions:

<http://icp-forests.net/page/changes-database>



Submission Manual Updates

Show 10 entries Search:

PARTNER_CODE PARTNER SURVEY SURVEY_YEAR DATE PLOTS

PARTNER_CODE	PARTNER	SURVEY	SURVEY_YEAR	DATE	PLOTS
2904	DE_BY	GR	2014	2015-05-18	15
51	Hungary	LA	2014	2015-05-15	8
57	Croatia	DP	2014	2015-04-29	8
3004	DE_NWD	SO	2012	2015-04-29	1
3004	DE_NWD	SO	2003	2015-04-29	1
3004	DE_NWD	SO	2008	2015-04-28	2
2704	DE_BB	SS	2014	2015-04-16	20
8	Denmark	C1	2014	2015-04-14	18

Docu of Changes - TFM Athens 2014

Manual Updates:

<http://icp-forests.net/page/changes-database>

Submission		Manual Updates					
Show 10 entries		Search: <input type="text"/>					
PARTNER_CODE	PARTNER	SURVEY	FORM	SURVEY_YEAR	UPDATED_ATTRIBUTES	DATE	RECORDS
		C1	PLO		latitude, longitude	2015-03-23	165
		C1	TRE		code_tree_species	2015-02-10	
1	France	C1	TRE		code_tree_species	2015-02-11	
13	Sweden	C1	TRE		code_defoliation	2015-01-07	
15	Finland	C1	TRE		code_defoliation	2015-01-07	
3504	DE_SL	AQ	AQP		value_aq(O3)	2015-02-26	
3604	DE_SN	FO	FOM	2011	s	2015-01-07	
3704	DE_TH	DP	DEM	2005	n_nh4, n_no3, s_so4	2015-02-16	
50	Switzerland	C1	TRE		code_defoliation	2015-01-07	
58	Czech_Republic	FO	FOM	1999	survey_year	2015-01-07	

Changed records indicated by
„Q_FLAG“ = „20“ (MANUALLY CHANGED BY THE ADMINISTRATOR)

New Online Documentation

NEW Online Documentation

Problem:

Forms, Dictionaries and further information („**Explanatory Items**“) are documented in a static **Word document**.

Description of Forms and Dictionaries is **stored in the DB** as well.

Whenever something changes it has to be changed in both sources.

NEW Online Documentation

Result:

Information in the DB and the Word document differ a lot!

The system just considers what is described in the DB.

What is in the „Explanatory Items“ might not be tested!?

Solution:

The complete documentation has to be created based on the information coming directly from the DB.

NEW Online Documentation

Introduction



0.1. General remarks

0.2. Old forms

0.3. Expertlist

0.4. Projectlist

0.5. Submissions / Manual changes

0.6. Additional sources

1. Surveys

2. Explanatory Items

3. Dictionaries

4. Annex

Published with GitBook

Forms and Explanatory Items

To be applied for data submission 2015 onwards

http://www.icp-forests.org/_test_doku/

NEW Online Documentation

DP - Analysis of Deposition

Surveys – Description of forms

Form: LQA - Laboratory QA/QC information

lsequence, country, plot, date_start, date_end, parameter, pretreatment, determination, quantification_limit, control_chart_mean, control_chart_std, ring_test_participation, ring_test_number, laboratory_id, percentage_within, requalification, percentage_within_requal, other_observations

COLUMNS	FIELD	DESCRIPTION
1 - 4	sequence	DB Column: SEQU_NUM Description: Sequence number (1 to 9999) Format: I 4
6 - 7	country M	DB Column: CODE_COUNTRY Description: ID of the country Format: I 2 Dictionary: d_country
9 - 12	plot M	DB Column: CODE_PLOT Description: Observation plot number Remarks: A unique number (per country) given to the permanent plot during the selection or installation Format: I 4
14 - 19	date_start (DDMMYY) M K	Description: Start date Remarks: E.g. '19th October 2012' = '191012' Format: Date Explanatory Item: 190

All Dictionaries linked

NEW Online Documentation

Linked Dictionary

d_country

CODE	LIB_COUNTRY	CODE_ISO
1	France	FR
2	Belgium	BE
3	Netherlands	NL
4	Germany	DE
5	Italy	IT
6	United Kingdom	UK
7	Ireland	IE
8	Denmark	DK
9	Greece	GR
10	Portugal	PT

NEW Online Documentation

DP - Analysis of Deposition

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All Explanatory Items linked

NEW Online Documentation

Linked Explanatory Item

190 Start / End date

In order to enable the coding of the change of the analyzing laboratory during a year `start_date` and `end_date` were integrated into the QA forms.

The `start_date` is the first (analysing) date from which the laboratory analysed the data from the respective plot, sampler and parameter.

The `end_date` is the last day of the analyses of the respective plot sampler and parameter combination.

Only in case, that a laboratory has been changed during one monitoring year, it would be necessary to use an additional data row with the respective time period in which the new laboratory has been analysing the data.

NEW Online Documentation

Conversion tables LQA codes

Following tables describe the conversions of old lqa codes used before 2015 to new lqa codes introduced in 2015.

Pretreatment

Code_OLD	Description	Code_NEW
0	No information	PZ99
1	No pretreatment	PZ98
2	Extractions	PA99
2.11	Single BaCl ₂ extraction	PA03
2.12	Triple BaCl ₂ extraction	PA04
2.2	Extraction KCl	PA99
2.3	Extraction aqua regia	PB01

Annex

NEW Online Documentation

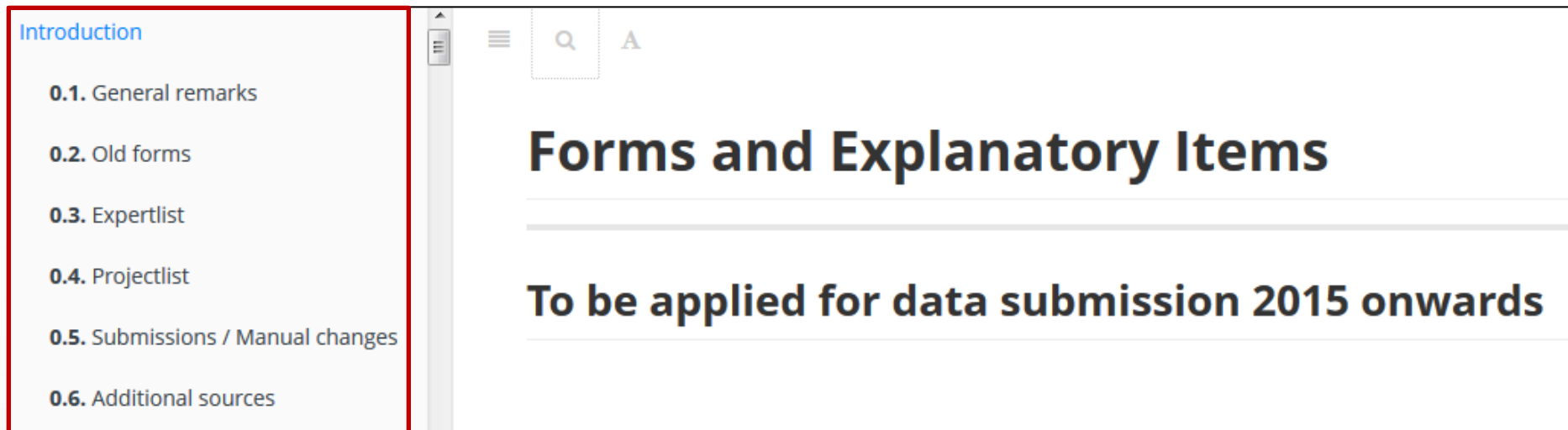
The screenshot displays a web interface for LQA documentation. On the left, a sidebar contains a table of contents with the following items:

- 0.1. General remarks
- 1. Surveys
 - 1.5. SO
 - 1.5.6. LQA
 - 1.7. SS
 - 1.7.4. LQA
 - 1.8. FO
 - 1.8.4. LQA
 - 1.12. DP
 - 1.12.4. LQA
 - 1.19. LF
 - 1.19.3. LQA
 - 1.23. GB
 - 1.23.5. LQA

The main content area features a search bar with a magnifying glass icon and the text 'FULL TEXT SEARCH'. Below the search bar, the title 'Forms and Explanatory Items' is displayed, followed by the text 'To be applied for data submission 2015 onwards'.

NEW Online Documentation

!! PLEASE START READING THE INTRODUCTION !!



The screenshot displays a web application interface. On the left, a navigation menu is highlighted with a red border, containing the following items:

- Introduction
- 0.1. General remarks
- 0.2. Old forms
- 0.3. Expertlist
- 0.4. Projectlist
- 0.5. Submissions / Manual changes
- 0.6. Additional sources

The main content area on the right features a search bar and a large heading:

Forms and Explanatory Items

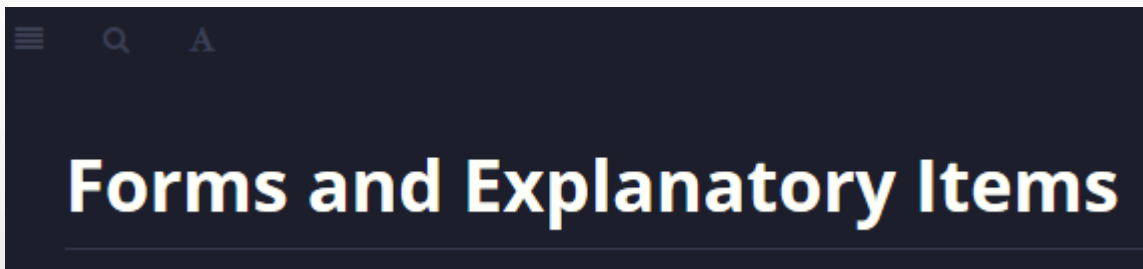
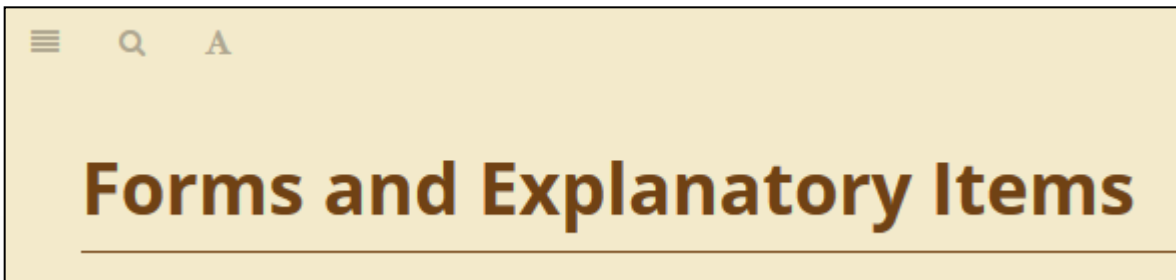
To be applied for data submission 2015 onwards

Supposed to become the Technical Docu of ICPF

NEW Online Documentation



Gimmicks



Docu of Deliveries

Docu of Deliveries - TFM Athens 2014



User



Download



ICP Forests



Version 01



User

Analysis



ICP Forests



Version 02

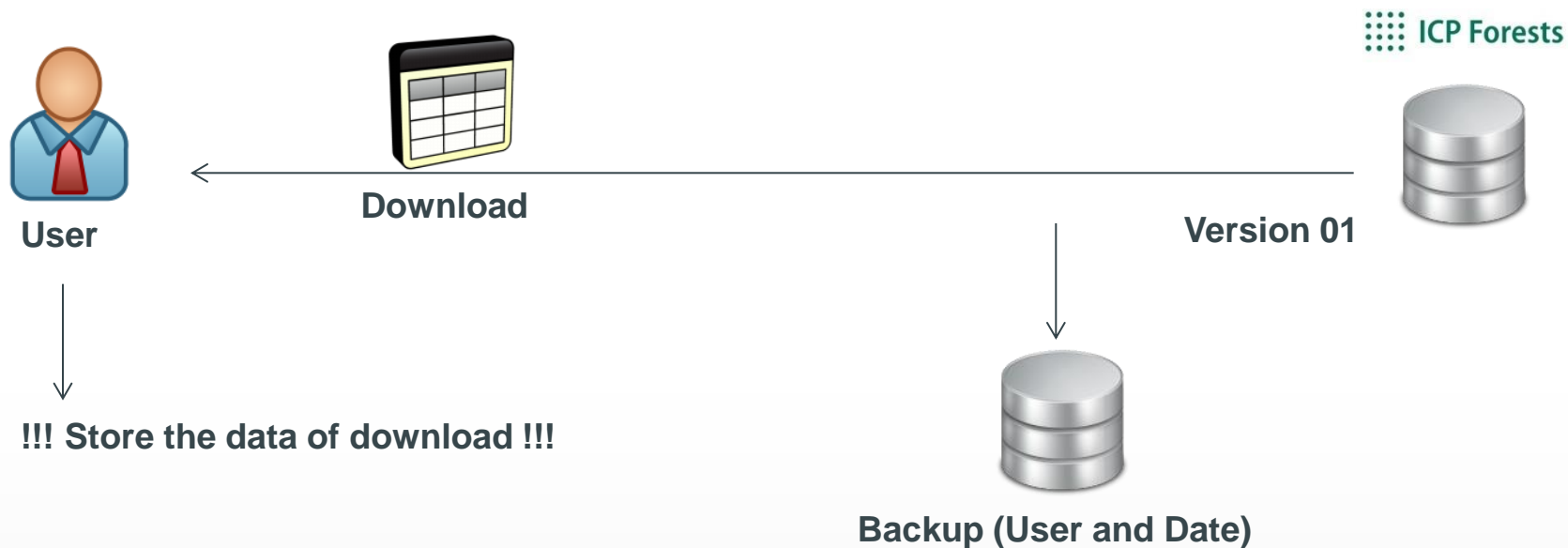


Reviewer

???



Docu of Deliveries - TFM Athens 2014



Data Policy

Draft has been send arround

General:

- **Clear structure**
- **Short sentences**
- **Easy wording**

Data Policy Revision – PCG Meeting 2014

Rights and Obligations of the Applicant

Data Application

1. In order to receive access to data from the ICP Forests DB, the applicant has to submit an application to the PCC using the official application form (available from the ICP Forests website). The applicant is declaring the intended use of the data requested specifying the scientific purpose of the study, the duration, the methodological approach and the sub-contractors foreseen to also work with the data.
2. The data application is first evaluated by the PCC. Hereafter, the PCC sends it to all relevant contributors for evaluation.
3. A response by the contributors containing the decision over the submitted proposal may be expected from the PCC within 2 weeks.
4. Following the rules under the LRTAP Convention data access by applicants can only be denied or restricted by the contributors if appropriate reasons are provided.¹
5. Information provided with the application will be made public on the ICP Forests website.²

Full extend of 2 pages (+1 page annex)

Changes to content

- The applicant is allowed to keep the data for documentation (no deletion)
- The applicant is allowed to provide data to a reviewer on request
- All information provided with a request will be made public on the website
- Full coordinates are provided to the applicant if not denied by a country
- Publication on full coordinates is denied in general
- Publication of coordinates accurate to geographic minutes is allowed
- ICPF partners have 4 weeks to react on a request (before 2 weeks)

Mandate from the Task Force

The revision group will prepare a suggestion for a policy with different options for data contributors to choose the kind of “openness”.

Template: “TRY” global plant trait database

Website: www.try-db.org

Announcements

- Replacing the **Universal Translator**
- Implementing **CSV Upload** for data submission
- Implementing **one structure** of forms valid **for all years**
- Create an **online tool** to **convert old LQA codes** ???