Data Management in CarboEurope

- CarboEurope IP
- Database System
- Component Databases
- Central Database
- Data Policy
- Reasons and Alternatives
- Central Database as Standalone Database

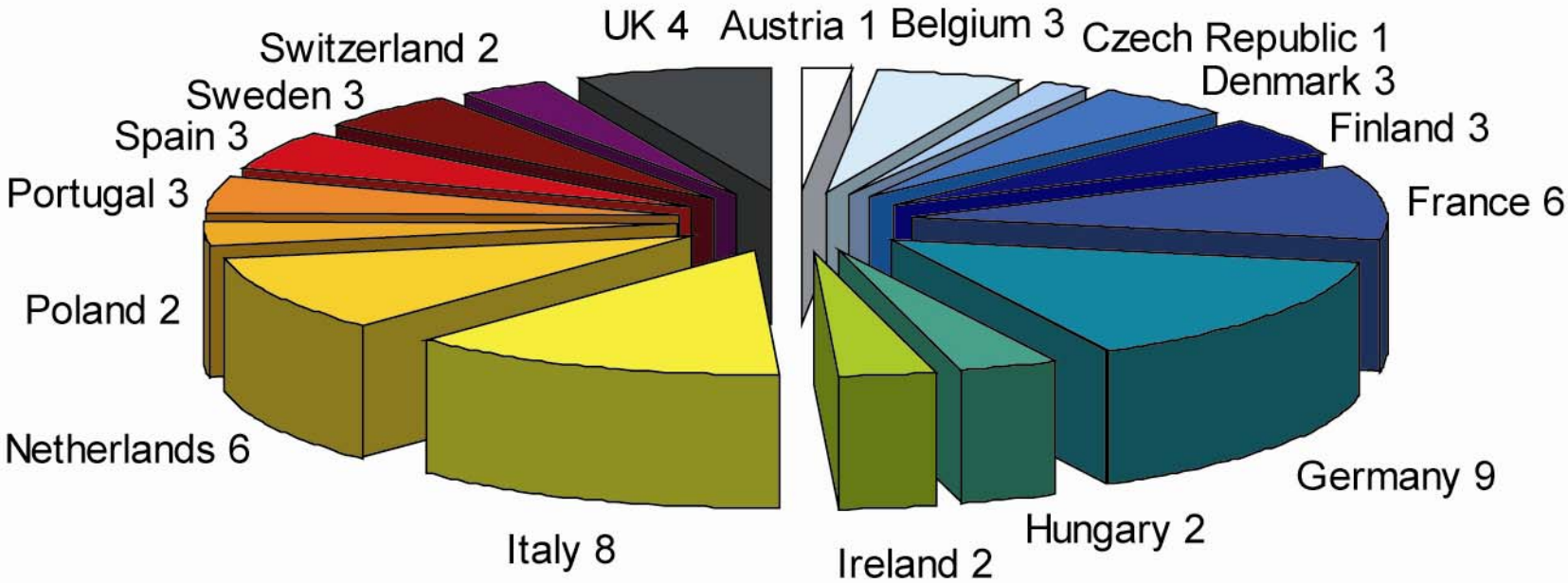
CarboEurope IP

The overarching aim of the CarboEurope-IP is to understand and quantify the terrestrial carbon balance of Europe and associated uncertainties at local, regional and continental scale.

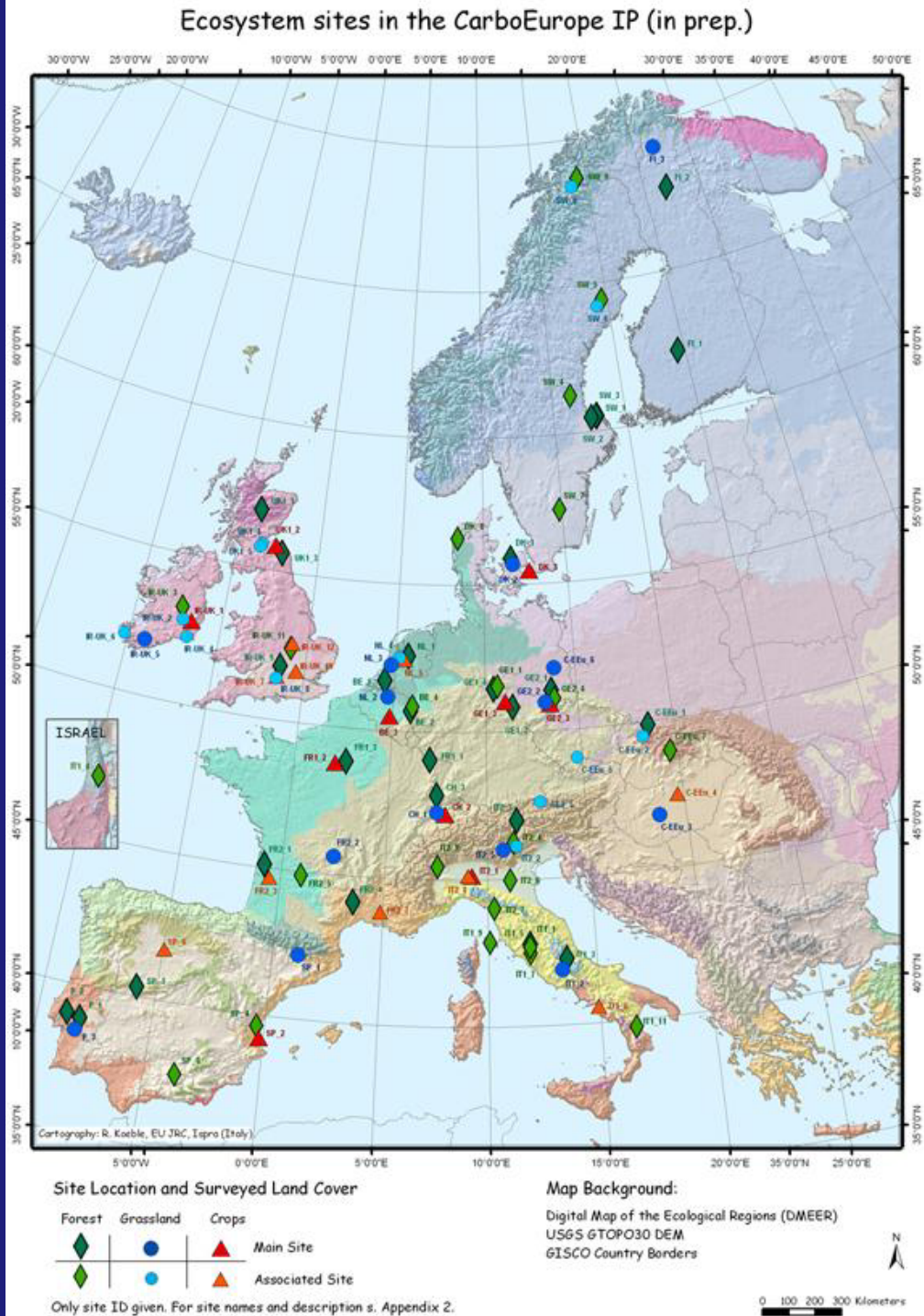
In order to achieve this strategic objective, the project addresses the following topics and associated questions:

- **"The European Carbon Balance"** What is the carbon balance of the European continent and its geographical pattern, and how does it change over time?
- **"Processes and Modelling"** What are the controlling mechanisms of carbon cycling in European ecosystems? How do external parameters such as climate change and variability, and changing land management affect the European carbon balance?
- **"Detection of Kyoto"** Can the effective CO_2 reduction in the atmosphere in response to fossil fuel emission reduction and enhanced carbon sequestration on land be detected in the context of the Kyoto commitments of Europe?

CarboEurope IP

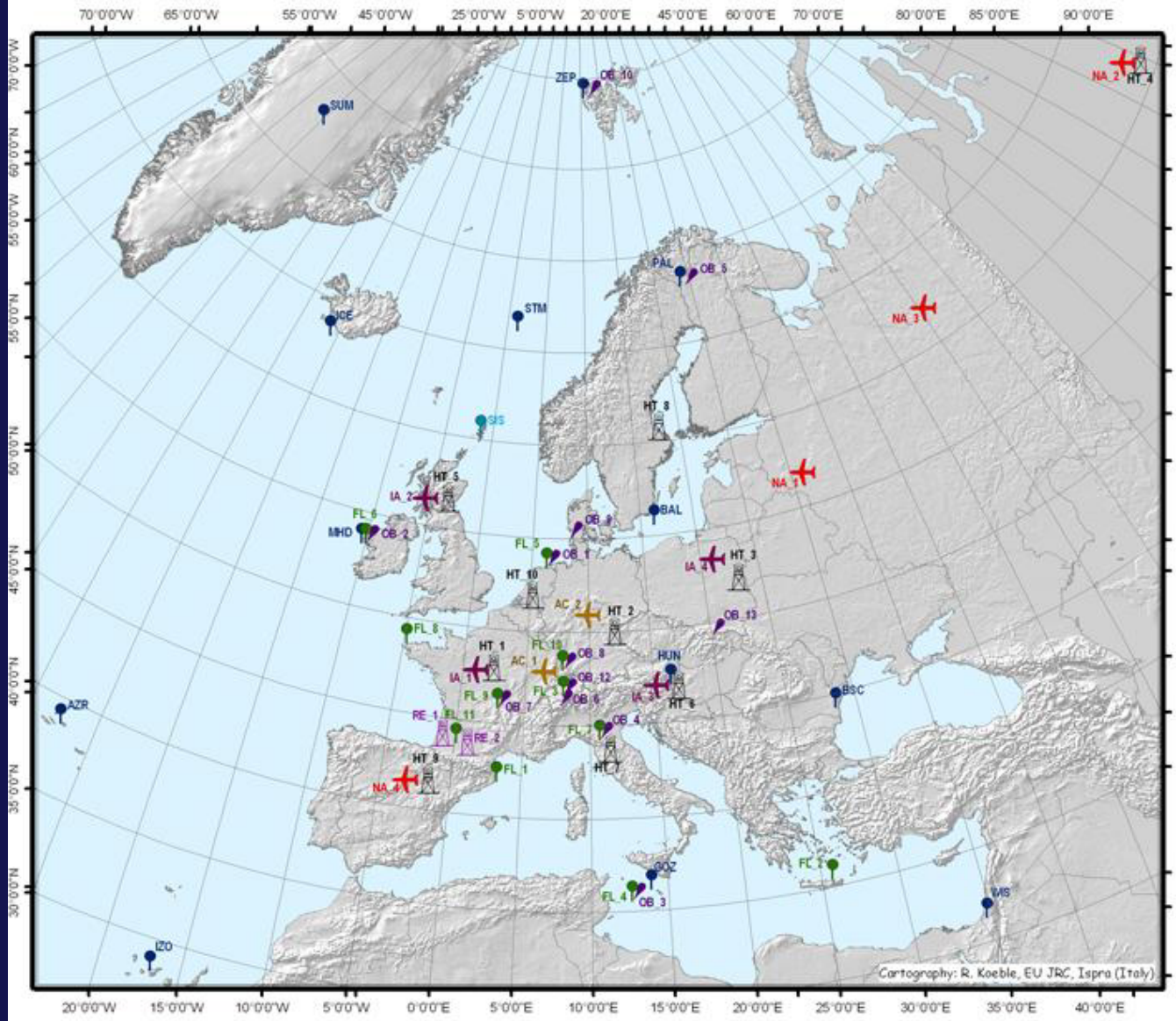


CarboEurope IP



CarboEurope IP

Atmospheric measurement sites in the CarboEurope IP (in prep.)



Legend

- Intensive Aircraft Sounding
- Non Intensive Aircraft Sound.
- Aircraft Sounding
- Flask Sampling Site
- Flask Sampling Site (CMDL)
- Flask Sampling Site (CSIRO)
- Tall Towers
- Tall Towers (Regional Project)
- Continuous CO2 222Rn Measurement Site

Only site ID given. For sitenames and description s. Appendix 3

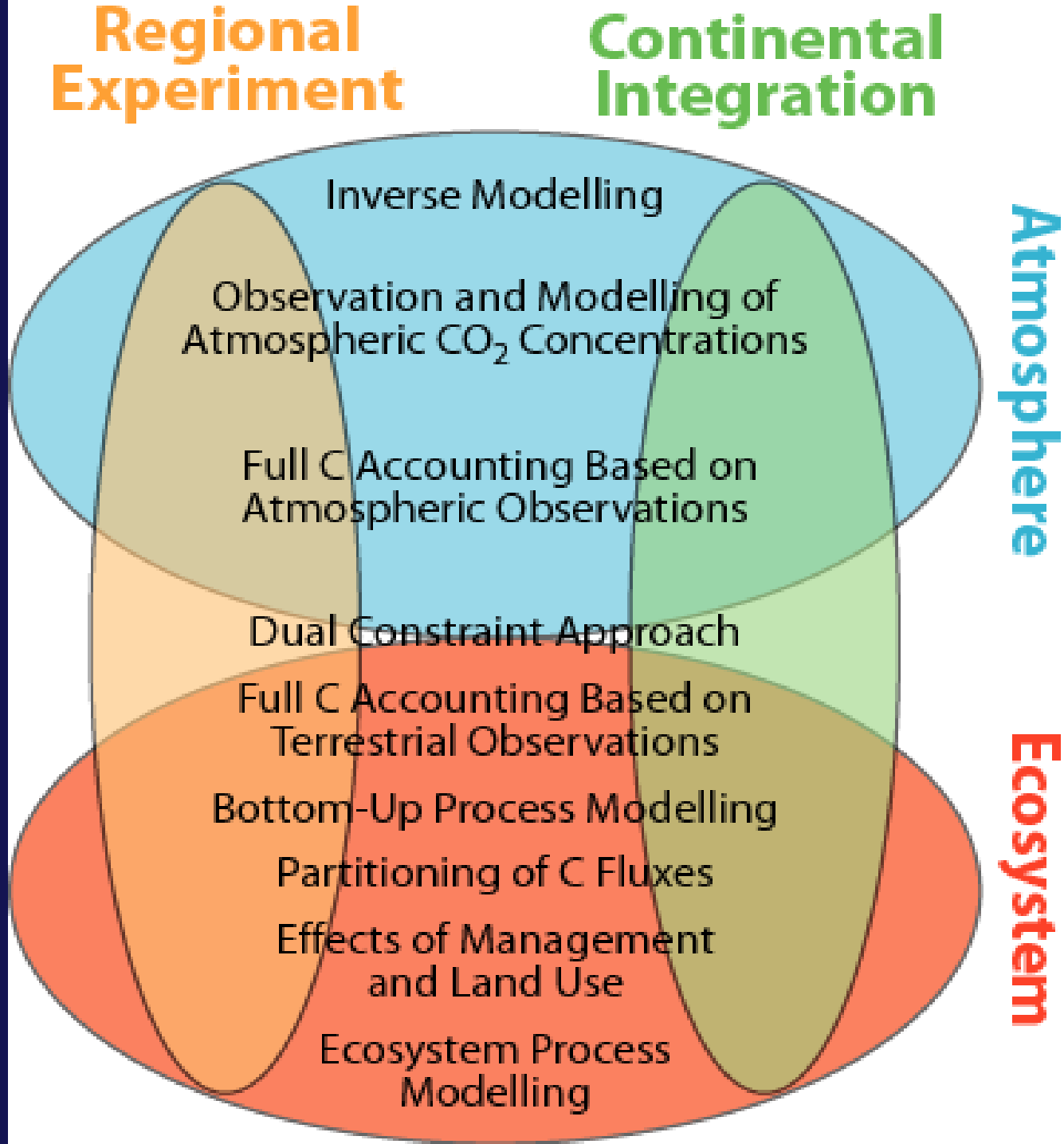
Map Background

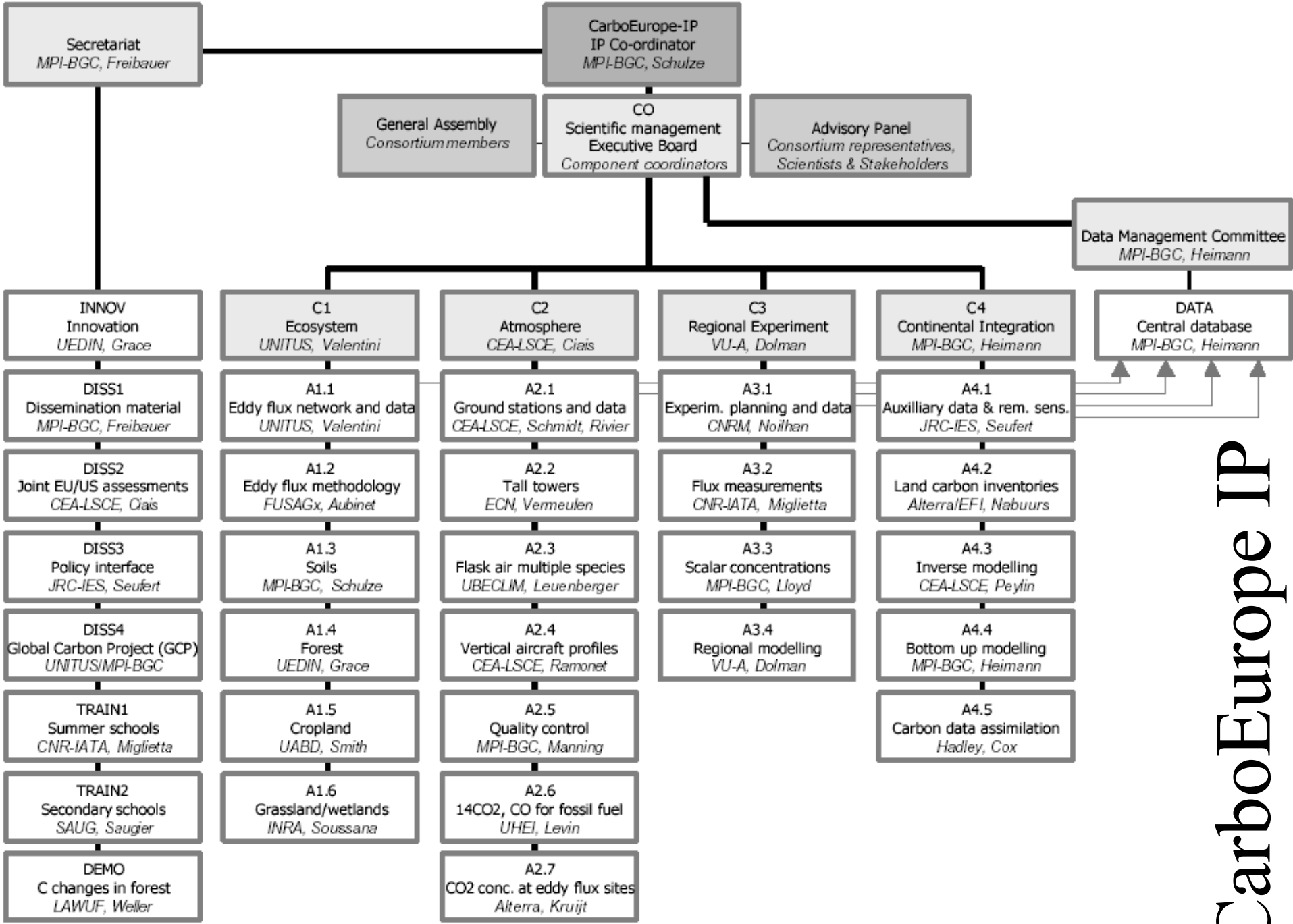
USGS GTOPO30 DEM
GISCO Country Borders

0 200 400 600 Kilometers

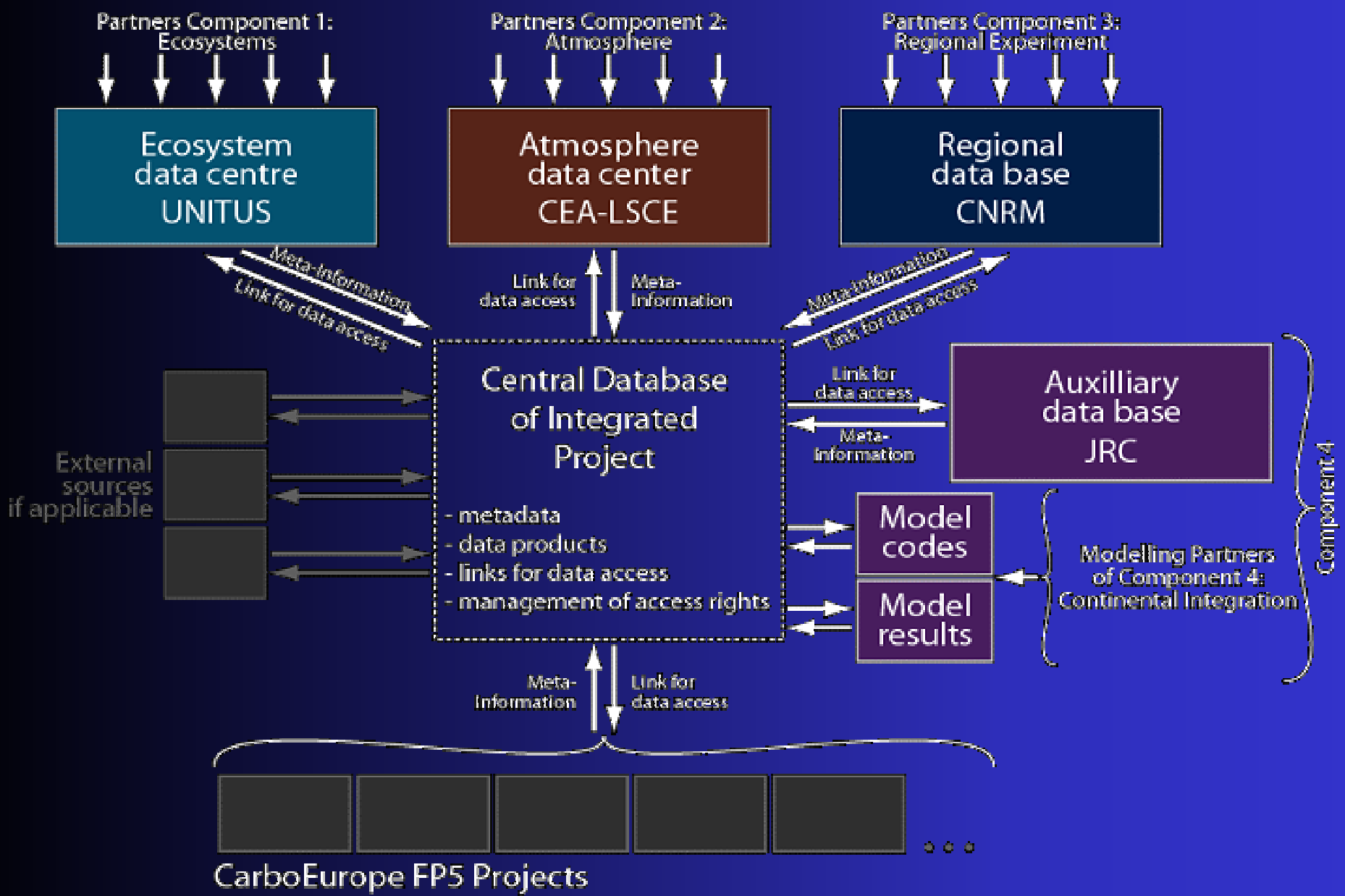
N

CarboEurope IP




Secretariat
MPI-BGC, Freibauer
CarboEurope-IP
IP Co-ordinator
MPI-BGC, Schulze
General Assembly
Consortium members
CO
Scientific management
Executive Board
Component coordinators
Advisory Panel
Consortium representatives,
Scientists & Stakeholders
Data Management Committee
MPI-BGC, Heimann
INNOV
Innovation
UEDIN, Grace
C1
Ecosystem
UNITUS, Valentini
C2
Atmosphere
CEA-LSCE, Ciais
C3
Regional Experiment
VU-A, Dolman
C4
Continental Integration
MPI-BGC, Heimann
DATA
Central database
MPI-BGC, Heimann
DISS1
Dissemination material
MPI-BGC, Freibauer
DISS2
Joint EU/US assessments
CEA-LSCE, Ciais
DISS3
Policy interface
JRC-IES, Seufert
DISS4
Global Carbon Project (GCP)
UNITUS/MPI-BGC
TRAIN1
Summer schools
CNR-IATA, Miglietta
TRAIN2
Secondary schools
SAUG, Saugier
DEMO
C changes in forest
LAWUF, Weller
A1.1
Eddy flux network and data
UNITUS, Valentini
A1.2
Eddy flux methodology
FUSAGx, Aubinet
A1.3
Soils
MPI-BGC, Schulze
A1.4
Forest
UEDIN, Grace
A1.5
Cropland
UABD, Smith
A1.6
Grassland/wetlands
INRA, Soussana
A2.1
Ground stations and data
CEA-LSCE, Schmidt, Rivier
A2.2
Tall towers
ECN, Vermeulen
A2.3
Flask air multiple species
UBECLIM, Leuenberger
A2.4
Vertical aircraft profiles
CEA-LSCE, Ramonet
A2.5
Quality control
MPI-BGC, Manning
A2.6
14CO2, CO for fossil fuel
UHEI, Levin
A2.7
CO2 conc. at eddy flux sites
Alterra, Kruijt
A3.1
Experim. planning and data
CNRM, Noilhan
A3.2
Flux measurements
CNR-IATA, Miglietta
A3.3
Scalar concentrations
MPI-BGC, Lloyd
A3.4
Regional modelling
VU-A, Dolman
A4.1
Auxilliary data & rem. sens.
JRC-IES, Seufert
A4.2
Land carbon inventories
Alterra/EFI, Nabuurs
A4.3
Inverse modelling
CEA-LSCE, Peylin
A4.4
Bottom up modelling
MPI-BGC, Heimann
A4.5
Carbon data assimilation
Hadley, Cox
CarboEurope IP

Database System



I-LUND

Ecosystem Database

Fluxdatabase : data from the projects Tacos, Carboeuroflux and Euroflux - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://gaia.agraria.unitus.it/database/ Wechseln zu

HOME DATA SITES PIs Area Contacts and Links

FLUX AND METEOROLOGY DATABASE

DUE TO SITE MAINTENAINCE SOME SERVICES ARE NOT WORKING AT THE MOMENT

REAL TIME DATA

DATASETS

NEW CARBOEUROPEIP DATA

NEW TACOS SOFTWARE VERSION AND INSTRUCTIONS

Best viewed at 1024 by 768 resolution

Internet

Ecosystem Database

Fluxdatabase : data from the projects Tacos, Carboeuroflux and Euroflux - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

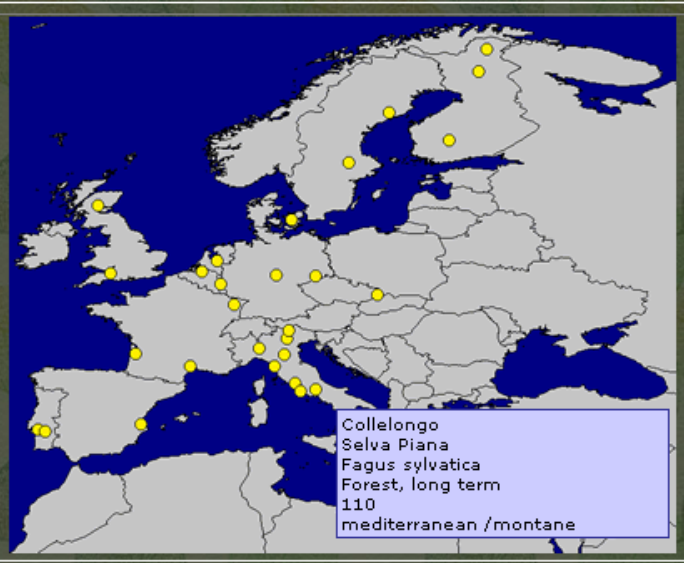
Adresse http://gaia.agraria.unitus.it/database/ Wechseln zu

HOME DATA SITES PIs Area Contacts and Links

Sites page

Bayreuth

Sites List



name	prefix	alternative name	Species	Type	age	climate	Site PI
Bayreuth	DE1				0		
Bily Kriz	CZ1	Beskidy Mountains	Picea abies	Forest, Kyoto 3.4	20	temperate/continental	Michal V. Marek

http://gaia.agraria.unitus.it/database/sites.asp?id=2 Internet

Ecosystem Database

Fluxdatabase : data from the projects Tacos, Carboeuroflux and Euroflux - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://gaia.agraria.unitus.it/database/ Wechseln zu

HOME DATA SITES PIs Area Contacts and Links

Collelongo

Current site: Collelongo

Sites List

Site names and prefix

name	alternative name	MEDEFLU	EUROFLUX	CARBOEUROFLUX	FLUXNET	Fluxnet gapfilled
Collelongo	Selva Piana		IT1	IT1	it.collelongo.01	

Site description

The site was established in June 1991. Flux measurements in 1993-94 and then continuously from June 1996. Other measurements from 1991.

Site info

Species	latitude	longitude	lai	mean annual T°	rain (mm)	age	age2	climate	Type
Fagus sylvatica	41°52'N	13°38'E	4.5	6.3	1560	110	-9999	mediterranean /montane	Forest, long term

Top of the page

Site characteristics

SITE CHARACTERISTICS	
Site name	Collelongo
Country	Italy
Region	Abbruzzo
latitude	41°50'57.7"

Ready Internet

Ecosystem Database

Fluxdatabase : data from the projects Tacos, Carboeuroflux and Euroflux - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://gaia.agraria.unitus.it/database/ Wechseln zu

HOME DATA SITES PIs Area Contacts and Links

Top of the page

Site data

Data Disclaimer

Top of the page

Data info

No data info.

Top of the page

FLUXES DATA	METEOROLOGICAL DATA	PERIODICAL DATA

	1996	1997	1998	1999	2000	2001	2002	2003
	17	32	37	31	35	63	26	
	42	62	56	61	6			

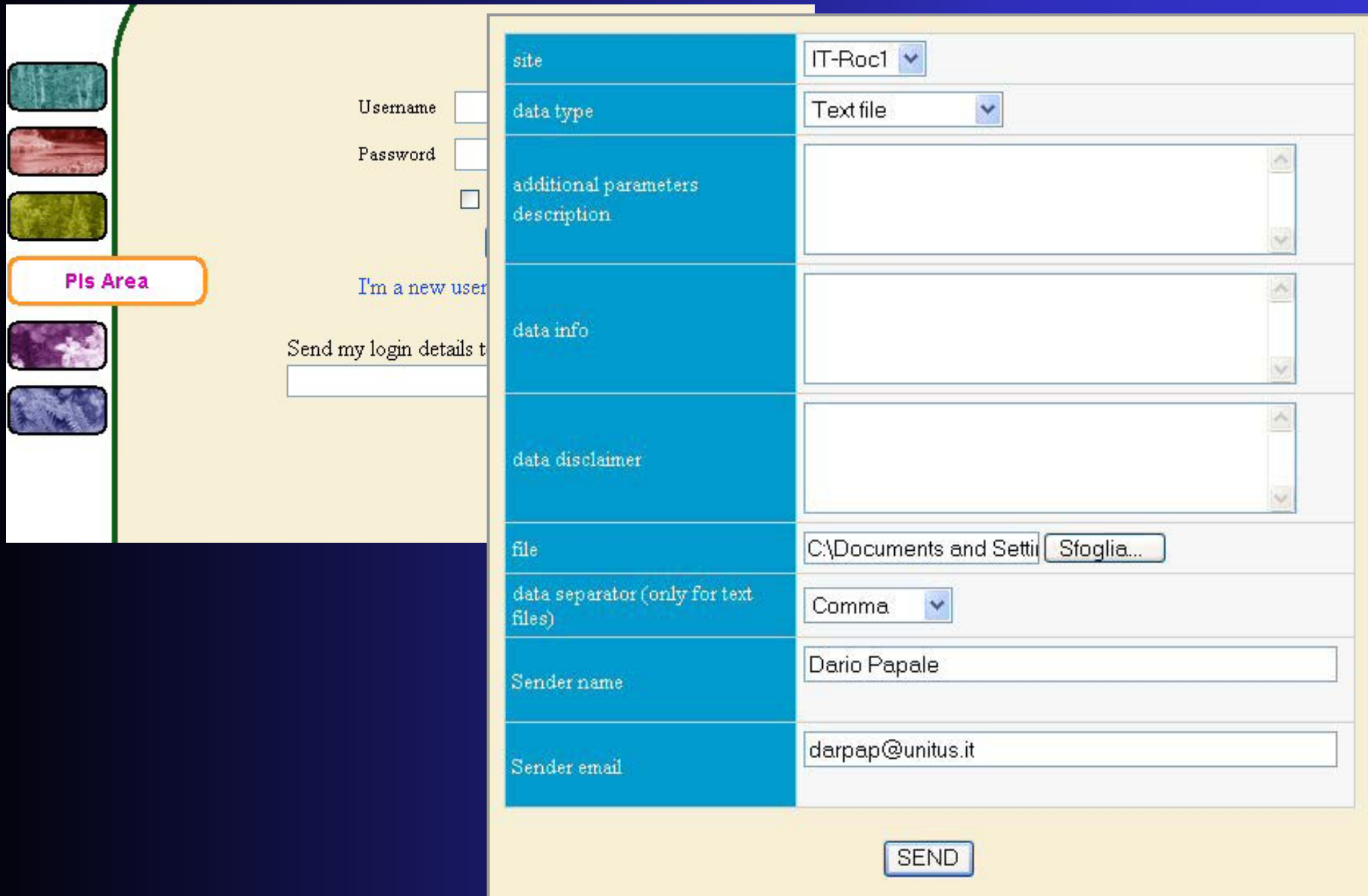
Valid values percentage per variable

Co	Ho	ZL	Fc	H	LE	ustar	Sb	Sc	Sw	Sa
43	34	45	43	44	33	44	0	43	33	33

Top of the page

Internet

Ecosystem Database



Ecosystem Database

Gaia Databases Section - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indirizzo http://localhost/cpz/datacx.asp

Data request service

Data are available to the public until August 2003

1- Select data types and variables (press CTRL key to select multiple variables)

CO2 - carbon dioxide concentration
H2O - Water vapour concentration
ZL - atmosphere stability parameter

P - precipitation
Rr - reflected radiation
Rg - global radiation

Soil respiration data

date" empty.

not

4- Set the condition to search records

No var selected	Greater than		And	No var selected	Greater than	
			And			
No var selected	Greater than		And	No var selected	Greater than	
			And			
No var selected	Greater than		And	No var selected	Greater than	

Authorized Requested

BE-Bra	N	BE-Jal	N	BE-Lon	N	BE-Vie	N	CH-Lae	N
CH-Oen1	N	CH-Oen2	N	CZ-BKr1	N	CZ-BKr2	N	CZ-wet	N

Operazione completata

Intranet locale

Start 19.32

Atmosphere Database

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu

CarboEurope Atmosphere Database

Latest update November, 2004

CO2 Continuous sites

Flasks sites

Aircrafts

Radiocarbon

Radon

CarboEurope Atmospheric Network

Documents

Introduction

Welcome to the CE-atmosphere database. This database will be regularly updated (with major data updates every 6 months). It is important in terms of quality issue for data users, to ensure the tracability of the data used. To this effect the creation date of the different data file should be present present in the header of those files (cf data format for more details).

Fertig Internet

Atmosphere Database

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu

CO2 continuous sites

Continuous sites are observatories where atmospheric CO2 concentrations are measured in-situ continuously on a routine basis; the data are reported as hourly average CO2 mixing ratios in ppm. Quality control flags are reported in the data and their meaning can be found in the data format file.

data format

Sites	Country	2003	2004	
		CO2	CO2	Meteo
Bern	Switserland			
Cabauw (20m)	Netherlands			
Cabauw (60m)	Netherlands			
Cabauw (120m)	Netherlands			
Cabauw (200m)	Netherlands			
Hegyhatsal (10m)	Hungary			2003 ; 2004
Hegyhatsal (48m)	Hungary			2003 ; 2004
Hegyhatsal (82m)	Hungary			2003 ; 2004
Hegyhatsal (115m)	Hungary			2003 ; 2004
Heidelberg	Germany			2003
Jungfraujoch	Switserland			
Kasprowy	Poland			
Lutjewad (7m)	Netherlands			2003
Lutjewad (40m)	Netherlands			2003
Lutjewad (60m)	Netherlands			2003

Fertig Internet

Atmosphere Database

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu

Flasks sites

data format

Sites	Lab.	Country	Data
Alert	CMDL	Canada	CMDL site
Alert	AES	Canada	
Baltic sea	CMDL	Poland	CMDL site
Begur (Barcelona)	LSCE	Spain	CO2 (2001-2003)
Bialistok	MPI	Poland	
Black Sea	CMDL	Romania	CMDL site
Cabauw	CIO	Netherlands	
Finokalia (Crête)	LSCE	Greece	CO2 (1999-2003)
Gozo	CMDL	Malta	CMDL site
Hegyhatsal	CIO	Hungary	
Hegyhatsal	CMDL	Hungary	CMDL site
Iceland	CMDL	Iceland	CMDL site
Izaña (Tenerife)	CMDL	Spain	CMDL site
Jungfraujoch	UNIBE	Switzerland	CO2 (2000-2004) ; O2/N2 (2000-2004)
Lampedusa	ENEA	Italy	CO2 (2003-2004) ; CH4 (2003-2004) ; N2O (2003-2004)
Lutjewad	CIO-RuG	Netherlands	CO2 (2001-2003) ; CH4 (2001-2003) ; CO (2001-2003) C13 (2001-2003) ;O18 (2001-2003) ; O2/N2 (2001-2003)
Mace Head	LSCE	Ireland	CO2 (1996-2003)
Mace Head	CMDL	Ireland	CMDL site
Mace Head	CIO-RuG	Netherlands	

Internet

Atmosphere Database

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu

tar file of "clean" CE flask stations

▲

Aircrafts

data format

Sites	
Bialystok	CO2 (2002) ; CO2 (2003) ; CO2 (2004)
Griffin (unibe)	CO2 (2002-2004) ; O2/N2 (2002-2004)
Griffin (lsce)	CO2 (2001-2004)
Hegyhatsal	CO2 (2001-2003)
Orleans	CO2 (1996-2004)
Schauinsland	CO2 (2001-2003) ; C13 (2001-2003)
Fyodorokskoe	Link to EU funded project (TCOS)*
La muela	Link to EU funded project (TCOS)*
Syktykvat	Link to EU funded project (TCOS)*
Zotino	Link to EU funded project (TCOS)*

* On this site data is under database, data download

▲

Document sans titre - Microsoft Internet Explorer

Atmosphere Database

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu

Radiocarbon - C14

High prescision (<3 ‰) bi-weekly integrated 14CO2 measurements. ?14C values in ‰ are reported.

Sites	
Izana	
Jungfraujoch	C14(1986-2003)
Lutjewad	C14(2001-2003)
Mace Head	
Schauinsland	C14(1976-2003)

Radon

data format

Sites	Radon
Heidelberg	2003
Mace Head	2004
Pallas	2003
Puy-de-Dôme	

Internet

Regional Database

Fichier Edition Affichage Favoris Outils ?

Précédente Rechercher Favoris

Adresse http://carboregional.mediasfrance.org//data/index.en.php OK Liens

Search Web Mail My Yahoo! Games Personals

Regional Experiment

Home> Data>

CarboEurope R.E. data

- data information
- upload site
- data access

CarboEurope R.E.
Project
  Scientific Objectives
  Workpackage
  description
CarboEurope R.E.
data
  Information
  Upload site
  Access
Partners
Working papers

News
Join the mailing list
Contact us

search :

Home> Data>

top

© 2004 Medias-France

Last modified: July 21 2004 09:30:49.

Internet

Regional Database

appearing for each data set

announces dataset having not yet data available

more information on datastet

Data Set's type		Data recieved at 21/07/2004
AIRCRAFTS		
AZTEC		
SKY-ARROW		
BALLONS		
RS_4M		
FLUXES		
INRA		
MF_OPER		
CESBIO		
CO2_Concentration		
LSCE		
MPI		
RADAR_SODAR		
RASS_Profiler		
CNRM-UHF		
Fossil_fuel_inventories		15 files (2381 Mo) received between 06/07/2004 and 07/07/2004
IER		15 files (2381 Mo) received between 06/07/2004 and 06/07/2004
Maps_of_vegetation_and_meteo		
SAFRAN		

Regional Database

Index of /carbo/data/Fossil_fuel_invent

Name	Last modified	Size	Description
Parent Directory	07-jui-2004 10:26	-	
f.bmp	06-jui-2004 10:13	523k	
f_0101052000-2431062..>	06-jui-2004 10:15	78.3M	
f_0101052000-2431062..>	06-jui-2004 10:15	1k	
nld.bmp	06-jui-2004 10:15	523k	
nld_qhq_0101012000-2..>	06-jui-2004 10:56	1024M	
nld_qhq_0101012000-2..>	06-jui-2004 10:56	1k	
sf.bmp	06-jui-2004 10:56	523k	
sf_0101052000-243106..>	06-jui-2004 11:41	609M	
sf_0101052000-243106..>	06-jui-2004 13:05	612M	
sf_0101052000-243106..>	06-jui-2004 13:05	1k	
sf_0101052000-243106..>	06-jui-2004 13:05	1k	

Auxiliary Databases

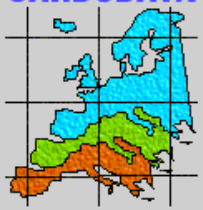
CARBODATA SPATIAL DATA ARCHIVE FRAME - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://carbodat.ei.jrc.it/data_archs_f.html Wechseln zu

CARBODATA



- Carbodata Home
- Project Description
- Project Partners
- Site Data Archive
- Spatial Data Archive
- Model Activities

Contacts for the Webpage

Last update 8.09.2003

SPATIAL DATA ARCHIVE

Spatial data information as potential input for Carbon balance assessments in different scales

The spatial the data archive is at an initial stage and will be continuously completed. For most of the data a brief description and the link to the provider are given. For some data sets, beeing products from the CARBODATA project, also more detailed description of contents and availability can be found.

THIS INFORMATION SERVICE FOCUSES MAINLY ON DATA SETS THAT:

- have been identified as important for upscaling/modelling carbon balances *and*
- are accessible to the research community *and*
- are provided at no or low costs.

If you have any suggestions for referencing other data sets or if you detect errors in the given information please contact the Webmaster

LIST OF DATA SETS (click on the small arrows to get more info)

Thematic area	Name of the dataset	Content(s)	Type of data	Geogr. extent
Administrative	NUTS Regions EU (Nomenclature of Territorial Units for Statistics) (NU) [▸▸▸]	Administrative boundaries	Area-wide data	EU-15, EFTA-4, CEC-10
Air	Meteorological Database [▸▸▸]	Meteorolgical data	Area-wide data	Pan Europe, North Africa, Turkey
Land	Biogeographical Regions [▸▸▸]	Biogeographical regions	Area-wide data	The whole European continent plus Turkey and portions of the Middle East
Land	Digital Map of European Ecological Regions -DMEER- [▸▸▸]	Ecological regions	Area-wide data	The whole European continent plus Turkey and portions of the Middle East
Land	GTOPO30 [▸▸▸]	Elevation	Area-wide data	Globe
Land	European Forest Resource Database	Forest inventory data	Statistical data	Pan-Europe

Fertig Internet

Auxiliary Databases

CARBODATA SPATIAL DATA ARCHIVE FRAME - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://carbodat.ei.jrc.it/data_archs_f.html Wechseln zu

CARBODATA

- Carbodata Home
- Project Description
- Project Partners
- Site Data Archive
- Spatial Data Archive
- Model Activities

Contacts for the Webpage

Last update 8.09.2003

...back to data set selection

Dataset Name: GTOPO30			
Provider	United States Geological Survey, EROS data centre	**Resolution**	~ 1km by 1km
Type of data	Area-wide data	**Format**	BIL
Parameters	Elevation	**Geogr. extent**	Globe
Price	ftp download free of charge. CD-ROM or 8mm high density tape for small fee.	**How to order**	Download from web site.

Description:
GTOPO30 is a global digital elevation model (DEM) with a horizontal grid spacing of 30 arc seconds (approximately 1 kilometer). GTOPO30 was derived from several raster and vector sources of topographic information.

project / data set web site

...back to data set selection

Dataset Name: European Forest Resource Database (EEFR)			
Provider	European Forest Institute	**Resolution**	Country level
Type of data	Statistical data	**Format**	online data base
Parameters	Period of the inventory, forest area, wood volume, increment, tree species and others.	**Geogr. extent**	Pan-Europe
Price	free of charge	**How to order**	data accessible through the interacitve web site (only selected data extracts available at one time, download of the entire database not possible)

Description:
This collection of national forest inventory data represents a valuable source of information on Europe's forest resources. The goal of EEFR is to make this information accessible to a wide range of potential users besides the researchers within the project. The EEFR database intends to contribute to a broader information base on forest resources by presenting the data which was used for implementing European forest scenarios. It also gives background information on the data from the 31 participating countries in the

Internet

Auxiliary Databases

GTOPO30 - Global Topographic Data - Microsoft Internet Explorer

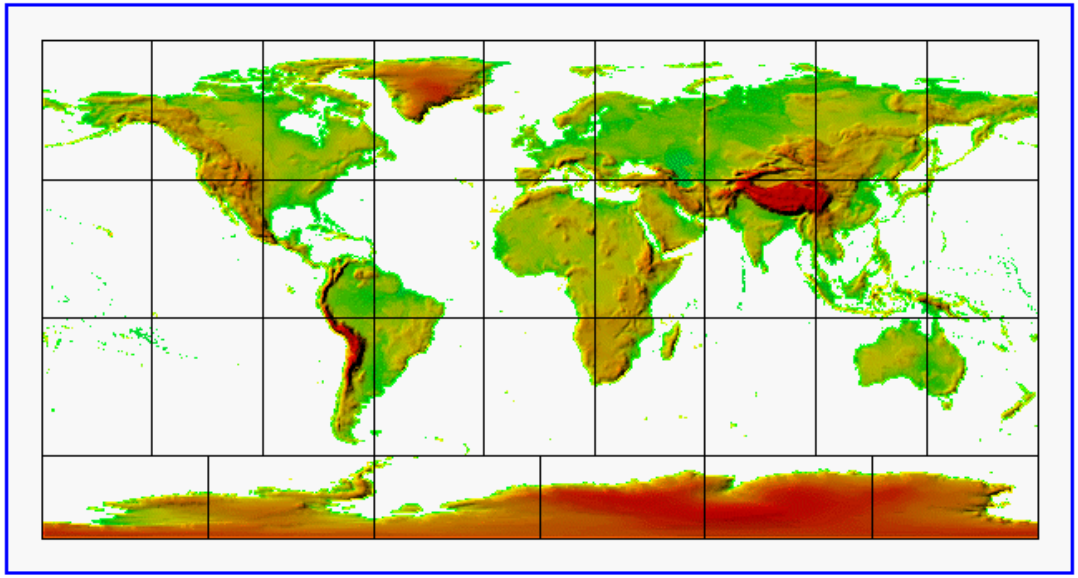
Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://edcdaac.usgs.gov/gtopo30/gtopo30.asp Wechseln zu

Land Processes
Distributed Active Archive Center

Home About Products Data Tools Order Data News Help/Edu Links Contact Us



Click on an area of the map to preview or download data.

ORDER DATA

- GTOPO30 mirror site in Japan (hosted by the Geographical Survey Institute of Japan)
- Representative applications of GTOPO30

Internet

Auxiliary Databases

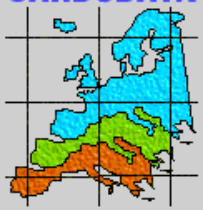
CARBODATA SPATIAL DATA ARCHIVE FRAME - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten Medien

Adresse http://carbodat.ei.jrc.it/data_archs_f.html Wechseln zu

CARBODATA



- Carbodata Home
- Project Description
- Project Partners
- Site Data Archive
- Spatial Data Archive
- Model Activities

Contacts for the Webpage

Last update 8.09.2003

...back to data set selection

FOREST TREE SPECIES MAPS FOR EUROPE

View maps of single tree species

Introduction

A main input parameter for upscaling/modelling of e.g. carbon balance or biogenic emissions on a European scale is detailed information about the vegetation coverage on a species level. Especially looking at forests, there is only little information. Currently available, mostly remote sensing based, digital land cover maps separate generally three main forest types: broadleaved, coniferous and mixed. For all applications where the subject of interest is related to the properties of individual tree species or tree species groups, this information is insufficient.

Facing this lack of data, novel European forest tree species maps were compiled by combining three existing Pan-European data sets.

Data basis

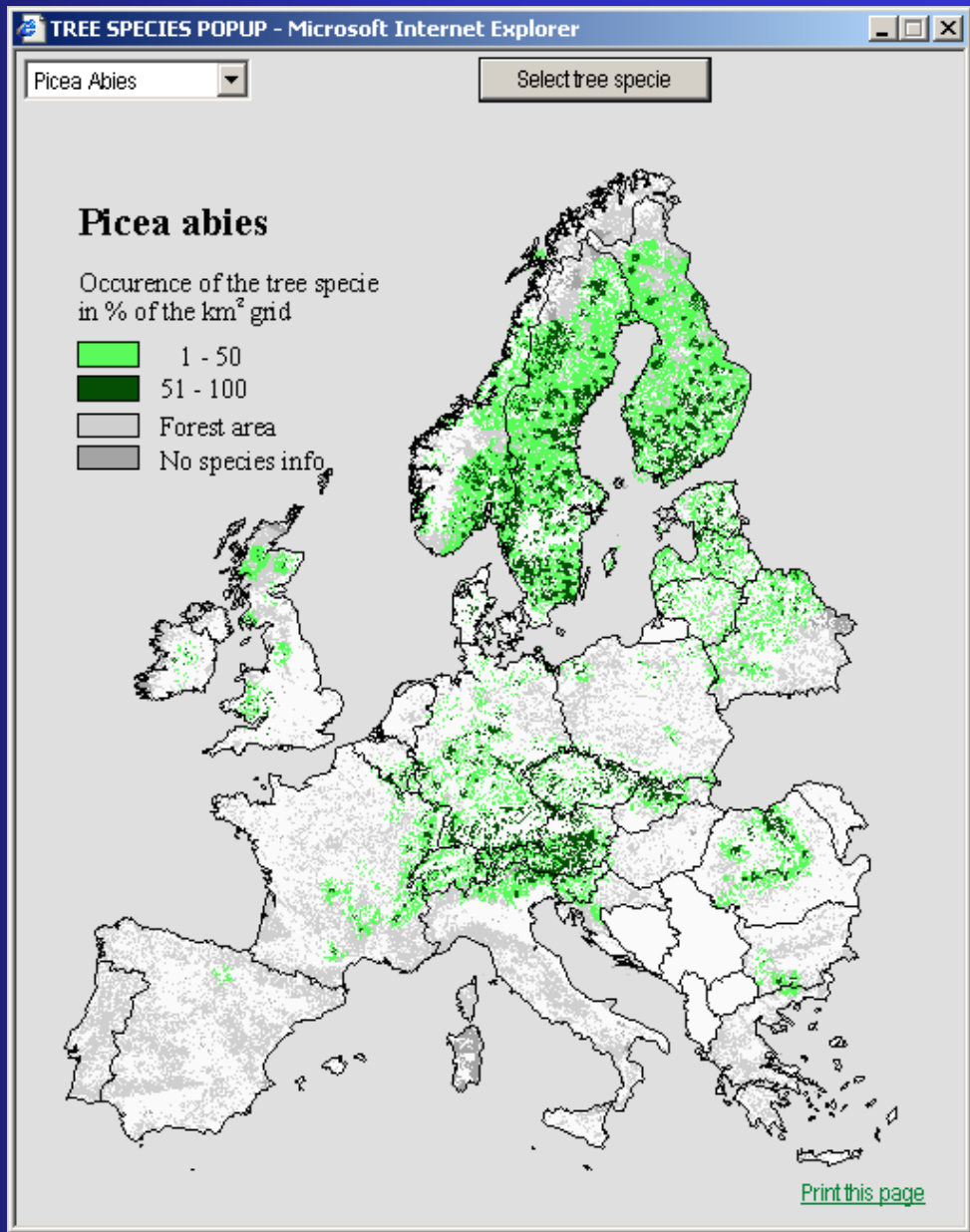
The spatial distribution of the forest area for most parts of Europe was adopted from the CORINE land cover data set (CEC, 1994). For countries where no CORINE data were available information from the *Pan-European Land Cover Mapping* "PELCOM" project (Mücher, 2000) was included (s. Figure 1). Both are raster maps but with different grid resolution and have therefore been resampled to a common cell size of 1km by 1km.

Especially for calculations of politically relevant information as carbon stock and carbon increment (e.g. for the implementation of the Kyoto Protocol) it has to be ensured that the underlying data is comparable with official national statistics. Comparisons between the forest area given in the maps and the UN-ECE/FAO (2000) forest statistics for the individual countries showed essential deviations mainly due to different reference periods or differing definitions of "forest". As within the land cover data sets also other classes than pure "forests" may include per definition a certain percentage of forest (e.g. transitional woodland shrub or agro-forestry areas), these classes were used to adjust the map to the actual official forest area given by UN-ECE/FAO (2000).

Tree species information was available from the measurement network of the transnational survey (ICP Forest Level I) of forest condition in Europe (UN-ECE, 1998). Within this project crown condition was screened annually in a 16 by 16 km grid of sample plots (~ 0.5 ha of size). Once also a site inventory focusing on tree species distribution, age class of the dominant storey, soil and

Internet

Auxiliary Databases



OE-EZO

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/ Wechseln zu Links

Research Database of Max-Planck-Institute for Biogeochemistry

Login

MPI-BGC Jena

Version 05.01.17

For information about changes of the database application click on the link "Version 05.01.17" in the green footer bar below.

Next planned maintenance dates: 21.02.2005 and 14.03.2005.

Log in after entering your username & password to connect to the database

username:

password:

Log in

How to get a user account for the Research Database

or use the Guest Login to see public data only

Log in guest

For questions on how to use the database system or suggestions on how to improve it, please contact the database developer Reiner Krause.

Version 05.01.17 | Impressum / Imprint (in German)

Latest update of application: 17.01.2005 15:56:18 (File:.Constants)

Research Database of the MPI-BGC :: Login - Microsoft Internet Explorer

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/Controller Wechseln zu Links

Research Database of Max-Planck-Institute for Biogeochemistry

Help | Retrieve | Insert | Collection | Data Types | Log Out

Advanced Retrieval for datasets

Version & Event settings
view current version
view latest events

Retrieval Result

	Found datasets	date range begin date	date range end date	database type of dataset format	database link to database
1	dataset Maps of Forest Tree Species in Europe	01.01.1998	31.12.2000	Raster data as ARC GIS grid files or in band interleaved by line format	Spatial Data Archive contains desccriptions and preview maps only. For actual datasets contact Renate Koeble.
2	dataset Plateau Rosa, concentrations CO2 with quality level 1	01.01.2003	31.12.2003	ascii text	CarboEurope Atmosphere Database
3	dataset Mace Head, concentrations CO2	01.01.2003	31.12.2004	ascii text	CarboEurope Atmosphere Database

Showing datasets 1 to 3 of 3 10 Results for Display

Download CSV Download Excel

Configuration

comment
database / access constraint
database / comment
database / link to database
database / name

Add Retrieval Fields

Available configurations: CE-IP Datasets Load

New configuration name: Save

Retrieval Result:

Field	Constraint	Display	Sort	
date range / begin date	=	☑	1	Remove
date range / end date	=	☑	2	Remove
database / type of dataset / format	= ?*	☑	3	Remove
database / link to database	=	☑	4	Remove

Note: Please enter values in common database format (i.e. date and timestamps: dd.mm.yyyy hh:mm:ss / numbers with decimal point, not comma)

CE-atmosphere - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Adresse http://www.lsce.cnrs-gif.fr/CE-atmosphere/database.html Wechseln zu Links

CarboEurope Atmosphere Database

Latest update November, 2004

CO2 Continuous sites

Flasks sites

Aircrafts

Radiocarbon

Radon

CarboEurope Atmospheric Network

Documents

Introduction

Welcome to the CE-atmosphere database. This database will be regularly updated (with major data updates every 6 months). It is important in terms of quality issue for data users, to ensure the tracability of the data used. To this effect the creation date of the different data file should be present present in the header of those files (cf data format for more details).

Most of the data on this page will appear on the screen when clicked on. However some might not and will then need to be downloaded.

Rules concerning the use of these data are given in the appendix I-G (Data Policy) of the Annex 1 of the Desritption of Work of the CarboEurope project.

CO2 continuous sites

Continuous sites are observatories where atmospheric CO2 concentrations are measured in-situ continuously on a routine basis; the data are reported as hourly average CO2 mixing ratios in ppm. Quality control flags are reported in the data and their meaning can be found in the data format file.

data format

Sites	Country	2003	2004	
		CO2	C02	Meteo
Bern	Switserland			
Cabauw (20m)	Netherlands			
Cabauw (60m)	Netherlands			

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/Controller Wechseln zu Links

Research Database of Max-Planck-Institute for Biogeochemistry

Help | Retrieve | Insert | Collection | Data Types | Log Out

Advanced Retrieval for datasets

Version & Event settings
view current version
view latest events

Retrieval Result

	Found datasets	date range begin date	date range end date	database type of dataset format	database link to database
1	dataset Maps of Forest Tree Species in Europe	01.01.1998	31.12.2000	Raster data as ARC GIS grid files or in band interleaved by line format	Spatial Data Archive contains desccriptions and preview maps only. For actual datasets contact Renate Koeble.
2	dataset Plateau Rosa, concentrations CO2 with quality level 1	01.01.2003	31.12.2003	ascii text	CarboEurope Atmosphere Database
3	dataset Mace Head, concentrations CO2	01.01.2003	31.12.2004	ascii text	CarboEurope Atmosphere Database

Showing datasets 1 to 3 of 3 10 Results for Display

Download CSV Download Excel

Configuration

comment
database / access constraint
database / comment
database / link to database
database / name

Add Retrieval Fields

Available configurations: CE-IP Datasets Load

New configuration name: Save

Retrieval Result:

Field	Constraint	Display	Sort	
date range / begin date	=	☑	1	Remove
date range / end date	=	☑	2	Remove
database / type of dataset / format	= ?*	☑	3	Remove
database / link to database	=	☑	4	Remove

Note: Please enter values in common database format (i.e. date and timestamps: dd.mm.yyyy hh:mm:ss / numbers with decimal point, not comma)

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/Controller?ItemID=6745&command=GeneralItemDisplay&PrevPage=GeneralItemDisplay&CurrentItem_213=1&CurrentItemCount_213=5&ItemCount_213=10&A Wechseln zu Links

Research Database of Max-Planck-Institute for Biogeochemistry

Help | Retrieve | Insert | Collection | Data Types | Log Out

Display Form

Version & Event settings
view current version
view latest events

Add to Collection | Enable editing

dataset Plateau Rosa, concentrations CO2 with quality level 1

	Value	Time	Event	Status
name	Plateau Rosa, concentrations		-	
type of gas species	CO2		-	
quality level	1		-	
delivery number	1		-	
date range	with date 01.01.2003, 31.12.2003			
dataset variable	atmospheric pressure			
dataset variable	concentration			
dataset variable	relative humidity			
dataset variable	temperature			
dataset variable	wind direction			
dataset variable	wind speed			
use constraint	**Data users have to cite the data owners and agree publication.**			
remote data	CO2 2003			
remote data	Meteo 2003			
comment	IMPORTANT NOTE: This dataset description is only intended to be used for guaranty for correctness yet.			
type of dataset	Continuous Measurements, standard			
database	CarboEurope Atmosphere Database			
site	Plateau Rosa Italy			
table of datasets	table of datasets		-	

Connect to www.lsce

CE-atmosphere Data

User name:

Password:

OK Cancel

http://www.lsce.cnrs-gif.fr/CE-atmosphere/base_de_donnees...

File Edit View Favorites Tools Help

Back Search Favorites Media

Address http://www.lsce.cnrs-gif.fr/CE-atmosphere/base_de_donnee Go Links

```
2003 08 02 06 00 0375.388 0007.111 ...
2003 08 02 06 30 -999.990 -999.990 *..
2003 08 02 07 00 0375.897 0000.546 ...
2003 08 02 07 30 0375.886 0000.583 ...
2003 08 02 08 00 0375.807 0000.232 ...
2003 08 02 08 30 0375.769 0000.047 ...
2003 08 02 09 00 0376.225 0001.249 ...
2003 08 02 09 30 0376.245 0000.408 ...
2003 08 02 10 00 0376.497 0000.781 ...
2003 08 02 10 30 0376.195 0000.358 ...
2003 08 02 11 00 0376.201 0000.187 ...
2003 08 02 11 30 0375.915 0000.288 ...
2003 08 02 12 00 0375.263 0006.992 ...
2003 08 02 12 30 -999.990 -999.990 *..
2003 08 02 13 00 0376.045 0000.447 ...
2003 08 02 13 30 0376.370 0000.384 ...
```

Done Internet

Zurück Suchen

Adresse https://research-db.bgc-jena.mpg.de/Institute

Research Database of Max-Plan

Display Form

Add to Collection | Enable editing

dataset Maps of Forest

name	Maps of Forest T			
release number	1.1			
date range	with date 01.01.19			
description	The data set consi 115 maps are givi 1 map shows the f 21 maps are giving Summing up the v The information w 1. Land cover fro 2. Land cover fro available, 3. Species informa 4. statistical data f			
remote data	remote dataset description with preview maps (To see maps push "view details", "view maps...", choose a species and push "Select tree specie" after clicking on this link). For actual datasets contact Renate Koeble.		-	
comment	IMPORTANT NOTE: This dataset description is only intended to be used for discussions on how to describe datasets. We don't guaranty for correctness yet.		-	
type of dataset	spatial data		-	
database	Spatial Data Archive		-	
area	European Union (except for Malta and Cyprus), Romania, Bulgaria, Croatia, Moldova, Belarus, Switzerland, Norway		dataset generation	
table of datasets	table of datasets		-	
date of last update	08.11.2004		-	

CARBODATA SPATIAL DATA INFO - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Adresse http://carbodat.ei.jrc.it/data_archs.cfm#7 Wechseln zu Links

Dataset Name: Forest Tree Species in Europe			
Provider	Joint Research Centre, Institute for Environment and Sustainability, Climate Change Unit	Resolution	1km by 1km
Type of data	Area-wide data	Format	Arc/Info grid format and BIL
Parameters	Tree species, other land cover classes	Geogr. extent	34 European countries (Macedonia, Yugoslavia, Bosnia and Herzegowina and Albania are not included)
Price	free of charge	How to order	mail to: renate.koeble@jrc.it

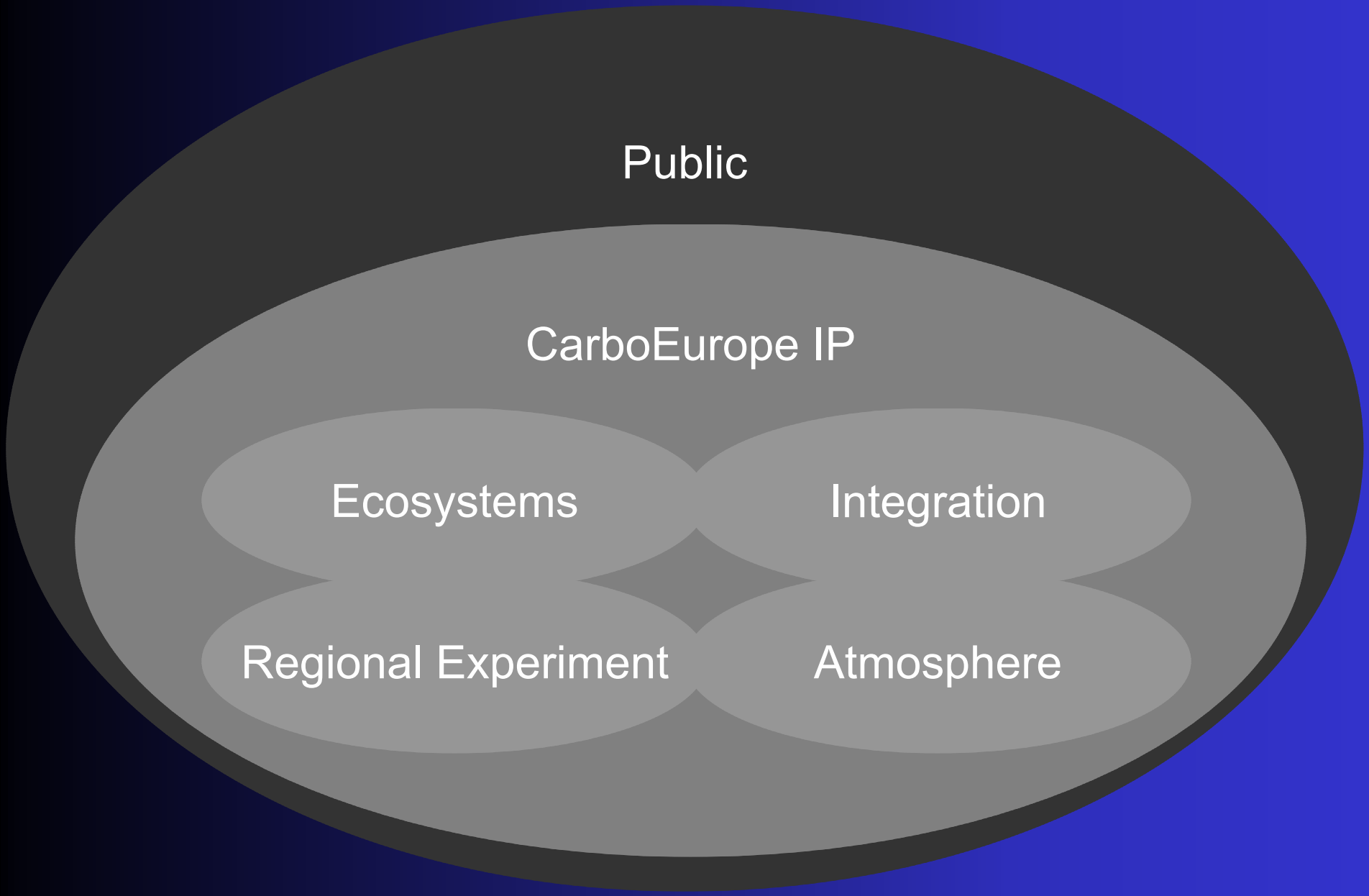
Description:
The data set consists of 137 grid maps with a resolution of 1km by 1km . 115 maps are giving the percentage of single tree species in a grid cell in the forest area of Europe, 1 map shows the forest area where no species classification was possible and 21 maps are giving the percentage of different non-forest classes in the single grid cells. Summing up the values in the 137 maps results in 100% for each grid cell. The information was derived by combining 4 Pan-European datasets. 1. Land cover from CORINE, 2. Land cover from PELCOM (Pan European Land Cover Mapping) for areas where no CORINE data was available, 3. Species information from ICP Forest Level I and 4. statistical data from the FAO-TBFRA2000. To assess the accuracy of the tree species information the results were compared with national forest statistics. This information is provided with the maps.

further information can be found under "view details" of this data set

view details

Fertig Internet

Data Policy: Access



Data Policy: Management

Members: Martin Heimann (chair) plus PIs of data centers

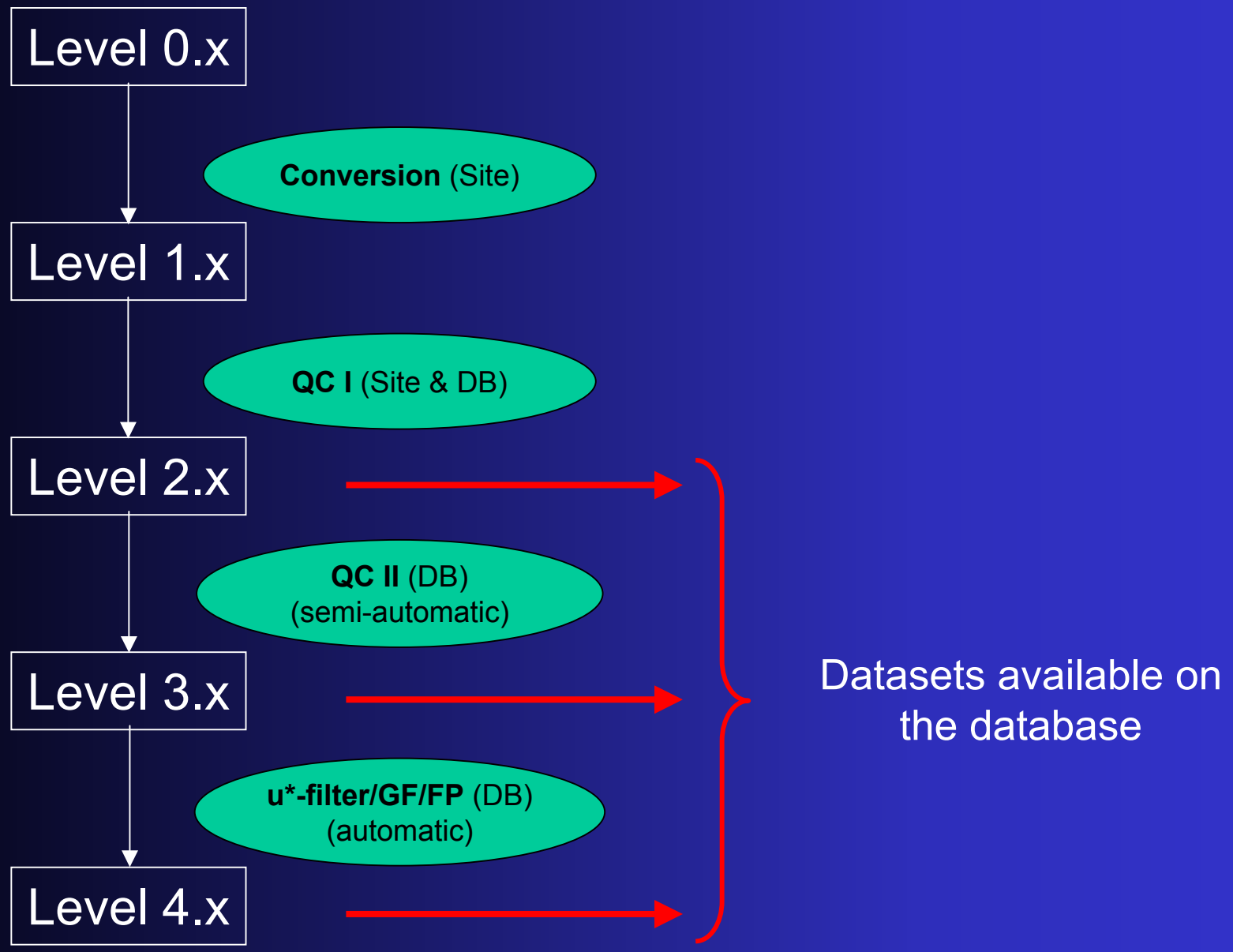
Tasks:

- supervise questions related to dataset documentation, formats, and quality level
- Support data quality assessment, standardization, harmonization, geo-referencing, and final archiving
- Design and maintain information technology structure and data exchange protocols
- Compile a catalogue of meta-information on external databases, and develop a plan to integrate data and results from FP5 projects
- Ensure that all important data and results, including model codes and model output, are accessible
- Support the Executive Board to adjudicate possible disputes relating to the data policy data delivery and non-compliance

Data Quality: Processing Levels

Version	Quality requirements	Documentation requirements
0.x	Raw data (it is up to each scientist to define the meaning of "raw") which have no physical meaning to an end user (*e.g.*, mV values)	A short, simple text file is sufficient
1.x	Raw data expressed in physically meaningful units (*e.g.*, $W m^{-2}$)	A documentation according to the standard format where only information about scientist, equipment, and variable/parameter description need to be complete
2.x	Removal of erroneous data caused by obvious measurement problems (electronic spikes, *etc.*), and physically impossible or extremely rare values. Correction of data by standard procedures.	A complete documentation according to the standard format. The quality control measures must be documented.
3.x	Removal of erroneous data after comparison with other, independently measured variables (e.g., clear-sky radiation is not accepted during heavy rain), or model-derived variables. Correction of data by novel procedures.	High-level documentation of calibration and quality-control procedures
4.x	Closure of gaps in the dataset with scientifically well-defined interpolation methods.	High-level documentation of gap-filling procedures. Documentation of the quality level as a function of time.

Data Quality: Ecosystems



Metadata: Initial Proposal

- Title
- Authors/owners
- Introduction (incl. objectives)
- Theory and type of measurements
- Equipment
- Observations
- Parameter/variable description
- Data manipulations
- Errors
- Notes
- References
- Glossary of acronyms

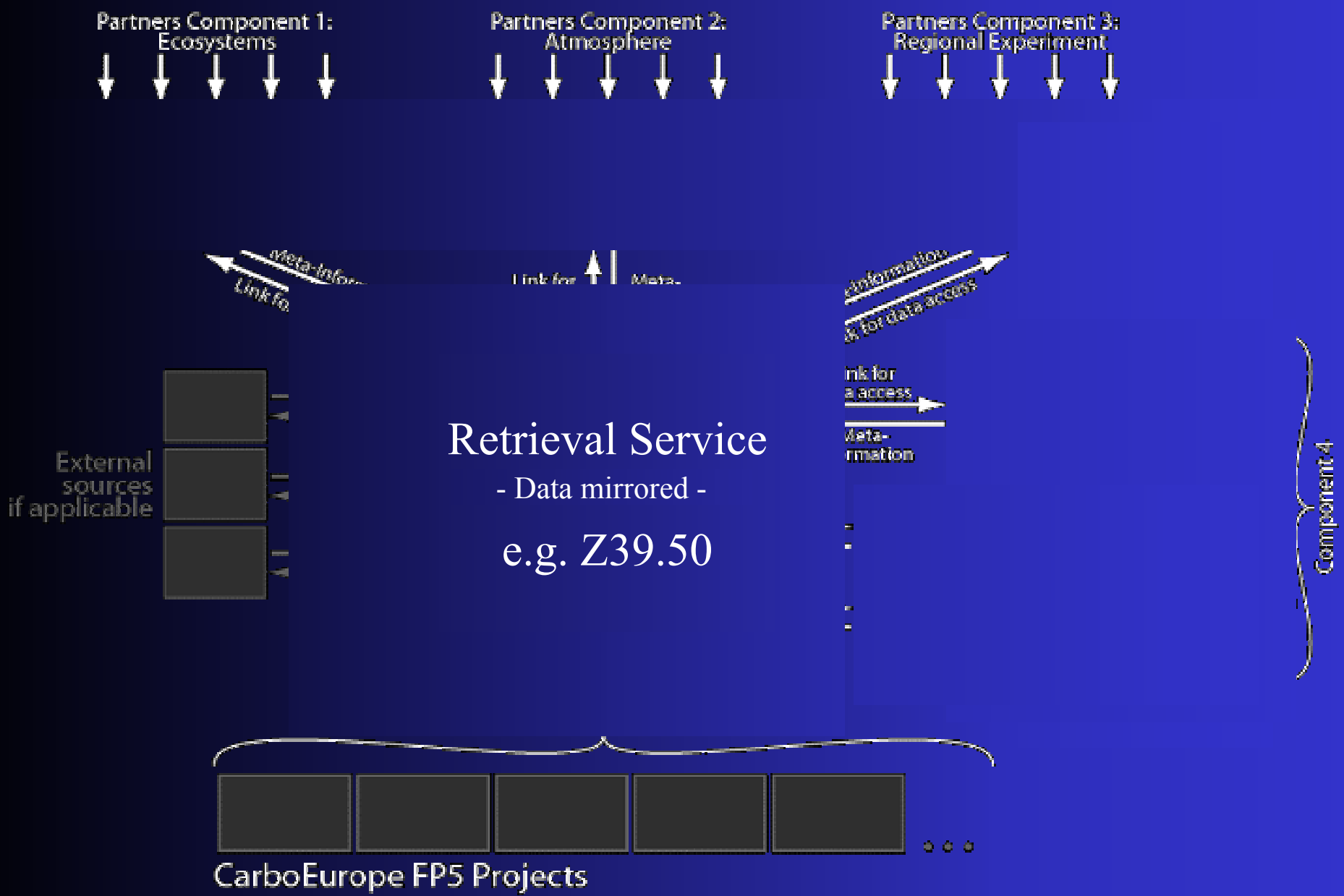
Metadata: Looking for the Optimum

- Existing Standards
  - ISO 19115 / FGDC
  - Dublin Core
- Needs of data producers
  - Archiving
  - Reduce necessary effort
- Needs of data users
  - Retrieve
  - Understand context and quality of data

Why this way?

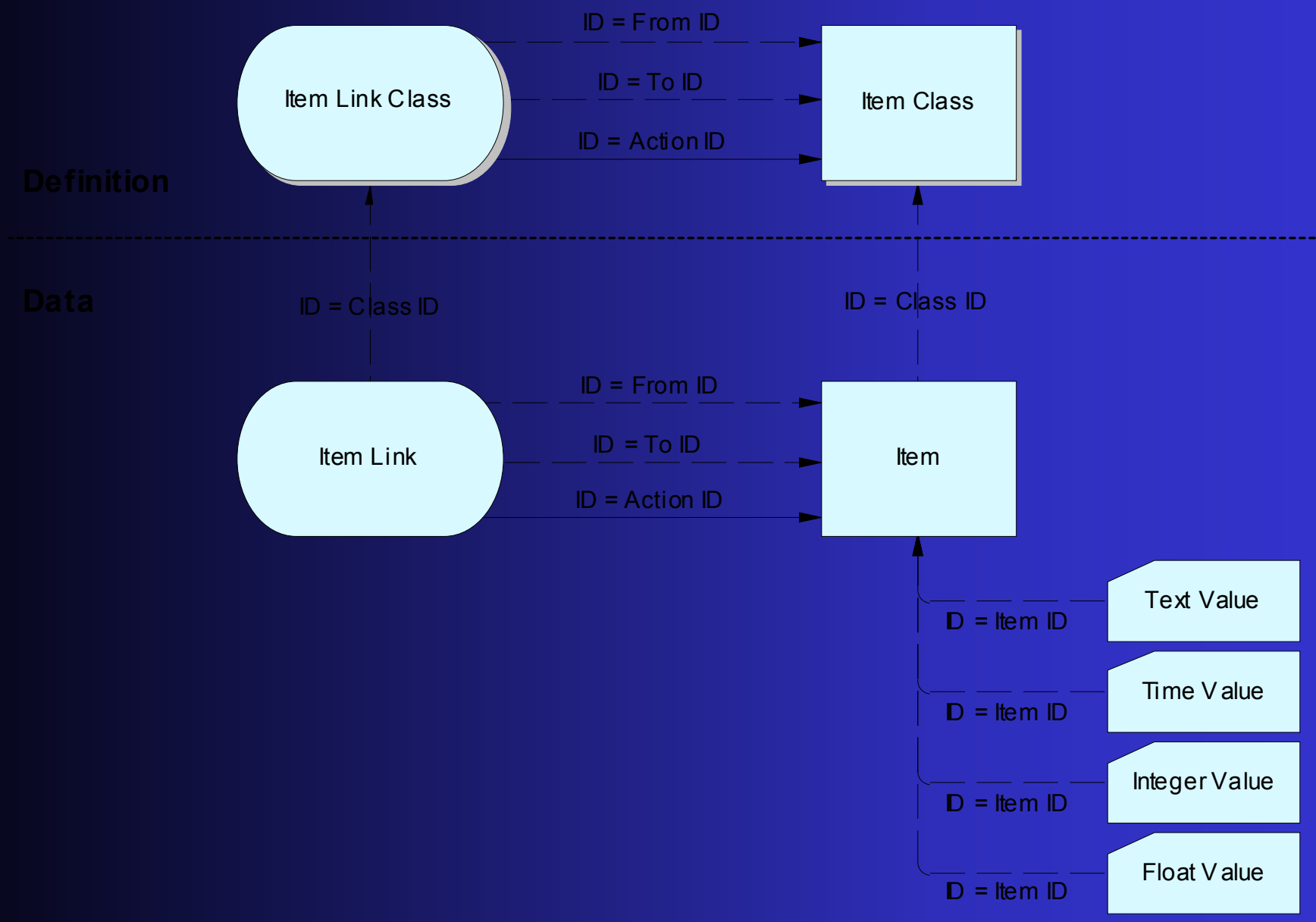
- Expertise in components
  - Quality checks, gap filling, smooth, describe
  - Closely connected with research activities
- Except for Regional component all databases existed
- Central catalogue
  - One point for retrieval
  - Standardization

Alternatives



Central Database Standalone

Central Database Standalone



Basic Retrieval Form

Retrieval Result

	Found projects
1	project CHIOTTO
2	sub-project CHIOTTO Alterra of project CHIOTTO
3	sub-project CHIOTTO ECN of project CHIOTTO
4	sub-project CHIOTTO Hungary of project CHIOTTO
5	sub-project CHIOTTO MPI-BGC of project CHIOTTO
	Showing projects 1 to 5 of 5 10 Results for Display

Search for data of type: .. projects

Dataset name contains: chio*

☐ Retrieve Case Sensitive

Retrieve | Go to Advanced Retrieval

Display Form

Add to Collection | Enable editing

project CHIOTTO

		Value	Time	Event	Status
	name	CHIOTTO		-	
	sub-project	CHIOTTO Alterra		-	
	sub-project	CHIOTTO ECN		-	
	sub-project	CHIOTTO Hungary		-	
	sub-project	CHIOTTO MPI-BGC		-	
	table of projects	table of projects		-	

Display Form

sub-project CHIOTTO Hungary of project CHIOTTO

	Value	Time	Event	Status
name	CHIOTTO Hungary		-	
principal investigator	László Haszpra		-	
continuous measurement	Eddy Covariance at tower Hegyhátsál HUN		-	
continuous measurement	LiCor at tower Hegyhátsál HUN		-	
continuous measurement	MTO at tower Hegyhátsál HUN		-	
continuous measurement	Radiation at tower Hegyhátsál HUN		-	
aggregate project	CHIOTTO		-	
table of projects	table of projects		-	

Display Form

continuous measurement LiCor at tower Hegyhátsál HUN of sub-project CHIOTTO Hungary of project CHIOTTO

	Value	Time	Event	Status
type of method	LiCor		-	
tower	Hegyhátsál HUN	-	-	
data series	HUN 010 LiCor CO2 with level 2	-	-	
data series	HUN 048 LiCor CO2 with level 2	-	-	
data series	HUN 082 LiCor CO2 with level 2	-	-	
data series	HUN 115 LiCor CO2 with level 2	-	-	
operator	László Haszpra		-	
sub-project	CHIOTTO Hungary of project CHIOTTO		-	

Display Form

Version & Event settings
view current version
view latest events

Add to Collection | Enable editing

data series HUN 082 LiCor CO2 with level 2

Show data series

		Value	Time	Event	Status
	name	HUN 082 LiCor		-	
	type of gas species	CO2		-	
	quality level	2		-	
	measurement timestamp	measurement timestamp		-	
	data series variable	concentration		-	
	data series variable	quality flag		-	
	tower	Hegyhátsál HUN		dataset generation	
	file specification	CE Atmospheric Conc.		file upload	
	table of datasets	table of datasets		-	

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/Controller?command=SeriesMerge.jsp&PrevPage=GeneralItemDisplay&ItemID=5463 Wechseln zu Links

Series Display

Version & Event settings
view current version
view latest events

decimal separator:	. (decimal point)	column separator:	; (semicolon)	
Substitute for missing values:	-null-	column width:	◉ fixed	○ flexible
Date/time format option:	dd.MM.yyyy HH:mm:ss	newline char	\r\n (windows)	
begin time:	29.02.2004 23:00:00	File header:	◉ Include data description	○ Download values only
end time:	31.03.2004 23:00:00	filename:	data.txt	
Show Series		Download Series	Download Excel Sheet	

measurement timestamp [UTC]	HUN 082 LiCor CO2 with level 2	
	☑ concentration [ppm]	☑ quality flag
	☑ standard deviation	

Zurück Suchen Favoriten Medien

Adresse https://research-db.bgc-jena.mpg.de/InstituteDBWeb/Controller?origin=SeriesMerge.jsp&command=SeriesMerge.jsp&PrevPage=SeriesMerge.jsp&numSeries=1&ItemID0=5463&DecimalSeparator=.&ColumnSeparator Wechseln zu Links

Research Database of Max-Planck-Institute for Biogeochemistry

Help | Retrieve | Insert | Collection | Data Types | Log Out

Series Display

Version & Event settings
view current version
view latest events

decimal separator:	. (decimal point)	column separator:	; (semicolon)	
Substitute for missing values:	-null-	column width:	◉ fixed	○ flexible
Date/time format option:	dd.MM.yyyy HH:mm:ss	newline char	\r\n (windows)	
begin time:	29.01.2004 23:00:00	File header:	◉ Include data description	○ Download values only
end time:	31.02.2004 23:00:00	filename:	data.txt	
Show Series		Download Series	Download Excel Sheet	

measurement timestamp [UTC]	HUN 082 LiCor CO2 with level 2		
	☑ concentration [ppm]		☑ quality flag
		☑ standard deviation	
29.01.2004 23:00:00	4.0165E2	1.387E0	...
30.01.2004 00:00:00	3.9501E2	2.446E0	...
30.01.2004 01:00:00	3.91209E2	2.054E0	...
30.01.2004 02:00:00	3.86723E2	1.081E0	...
30.01.2004 03:00:00	3.86186E2	1.147E0	...
30.01.2004 04:00:00	3.85166E2	5.45E-1	...
30.01.2004 05:00:00	3.8449E2	2.38E-1	...
30.01.2004 06:00:00	3.85728E2	1.202E0	...
30.01.2004 07:00:00	3.84847E2	4.29E-1	...
30.01.2004 08:00:00	3.85158E2	1.157E0	...
30.01.2004 09:00:00	3.86715E2	5.21E-1	...
30.01.2004 10:00:00	3.87884E2	5.74E-1	...
30.01.2004 11:00:00	3.88203E2	4.34E-1	...
30.01.2004 12:00:00	3.92713E2	2.372E0	...
30.01.2004 13:00:00	3.93241E2	6.9E-1	...
30.01.2004 14:00:00	3.92735E2	7.07E-1	...
30.01.2004 15:00:00	3.93014E2	7.54E-1	...
30.01.2004 16:00:00	3.97797E2	1.552E0	...
30.01.2004 17:00:00	3.93613E2	1.859E0	...
30.01.2004 18:00:00	3.91747E2	8.0E-1	...

A1 measurement timestamp [UTC]

measurement timestamp [UTC]	HUN 082 LiCor CO2 with level 2		
	concentration [ppm]		quality flag
		standard deviation	
29.01.2004 23:00:00	401,65	1,39	...
30.01.2004 00:00:00	395,01	2,45	...
30.01.2004 01:00:00	391,21	2,05	...
30.01.2004 02:00:00	386,72	1,08	...
30.01.2004 03:00:00	386,19	1,15	...
30.01.2004 04:00:00	385,17	0,55	...
30.01.2004 05:00:00	384,49	0,24	...
30.01.2004 06:00:00	385,73	1,20	...
30.01.2004 07:00:00	384,85	0,43	...
30.01.2004 08:00:00	385,16	1,16	...
30.01.2004 09:00:00	386,71	0,52	...
30.01.2004 10:00:00	387,88	0,57	...
30.01.2004 11:00:00	388,20	0,43	...
30.01.2004 00:00:00	392,71	2,37	...
30.01.2004 13:00:00	393,24	0,69	...
30.01.2004 14:00:00	392,73	0,71	...
30.01.2004 15:00:00	393,01	0,75	...
30.01.2004 16:00:00	397,80	1,55	...
30.01.2004 17:00:00	393,61	1,86	...
30.01.2004 18:00:00	391,75	0,80	...
30.01.2004 19:00:00	393,63	0,70	...
30.01.2004 20:00:00	395,46	0,58	...
30.01.2004 21:00:00	395,06	1,13	...
30.01.2004 22:00:00	393,10	1,29	...
30.01.2004 23:00:00	393,79	1,01	...
31.01.2004 00:00:00	392,61	0,87	...
31.01.2004 01:00:00	391,11	1,03	...
31.01.2004 02:00:00	390,37	0,30	...
31.01.2004 03:00:00	390,96	0,38	...
31.01.2004 04:00:00	392,09	0,40	...
31.01.2004 05:00:00	392,26	0,42	...
31.01.2004 06:00:00	394,18	0,64	...
31.01.2004 07:00:00	394,81	0,14	...
31.01.2004 08:00:00	394,71	0,17	...
31.01.2004 09:00:00	394,95	0,26	...
31.01.2004 10:00:00	394,94	0,18	...
31.01.2004 11:00:00	394,51	0,19	...
31.01.2004 00:00:00	394,19	0,23	...
31.01.2004 13:00:00	393,75	0,33	...
31.01.2004 14:00:00	392,52	0,27	...
31.01.2004 15:00:00	391,69	0,28	...
31.01.2004 16:00:00	390,72	0,49	...
31.01.2004 17:00:00	389,93	0,31	...
31.01.2004 18:00:00	389,50	0,17	...
31.01.2004 19:00:00	388,75	0,61	...
31.01.2004 20:00:00	387,51	0,30	

Sheet 1

Ready