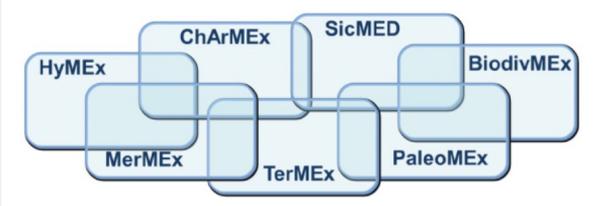




<http://mistrals.sedoo.fr/>

Contexte du portail MISTRALS

Gestion des programmes



- ChArMEX , HyMeX , MerMEX , ...
- Autres projets : CORSICA , MEUST , MOOSE , ...

Centres de données impliqués

Hébergement des données

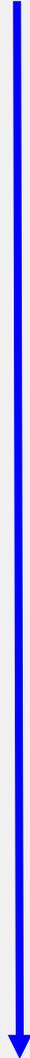
- SEDOO - OMP
- ESPRI - IPSL
- ICARE
- ETHER
- SISMER / Coriolis
- ...

Développement , in situ 1D EOP , SOP , LOP
 2 et 3D : satellite, modèle, radar, ...
 satellite, Photons/aeronet
 via ECCAD



Services

- **Informations** : métadonnées / catalogue
- **Enregistrement** / gestion des **droits utilisateurs** / suivi des requêtes
- Accès aux **données** selon la politique définie dans la data policy
 - **Data policy**
 - » septembre 2010 pour HyMeX
 - » septembre 2012 pour ChArMEx
 - » MerMEx ...
- Homogénéisation, référencement, métadonnées
- Recherches multicritères / extraction



W_{BD} croissant



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Données

--- : utiles à 2, 3, n projets
--- : générées par 1 projet, utiles à n
--- : propres / utiles à 1 projet

Données in situ

- Historiques
- Opérationnelles
- ORE / SO / LOP
- EOP / SOP

**Stockage de toutes les données brutes
issues des campagnes ou des observations
Délai de livraison : 6 mois**

Produits satellite / élaborés

- publics
- Opérationnels
- non libres (convention)
- générés

Sorties de modèles

- Analyses / réanalyses opérationnelles
- Simulations / (ré-)analyses recherche



<http://mistrals.sedoo.fr/>

Base de données

Stratégie commune car base de données **UNIQUE**

- Gestion des données / métadonnées
- Gestion des utilisateurs

Fonctionnement

- **Interopérabilité**
 - accès aux jeux depuis le portail MISTRALS (OpenDAP)
- **Transfert de données**
 - **Centre primaire SEDOO** vers ICARE pour BDD ORAURE et conversion au format NILU (ACTRIS,EMEP)

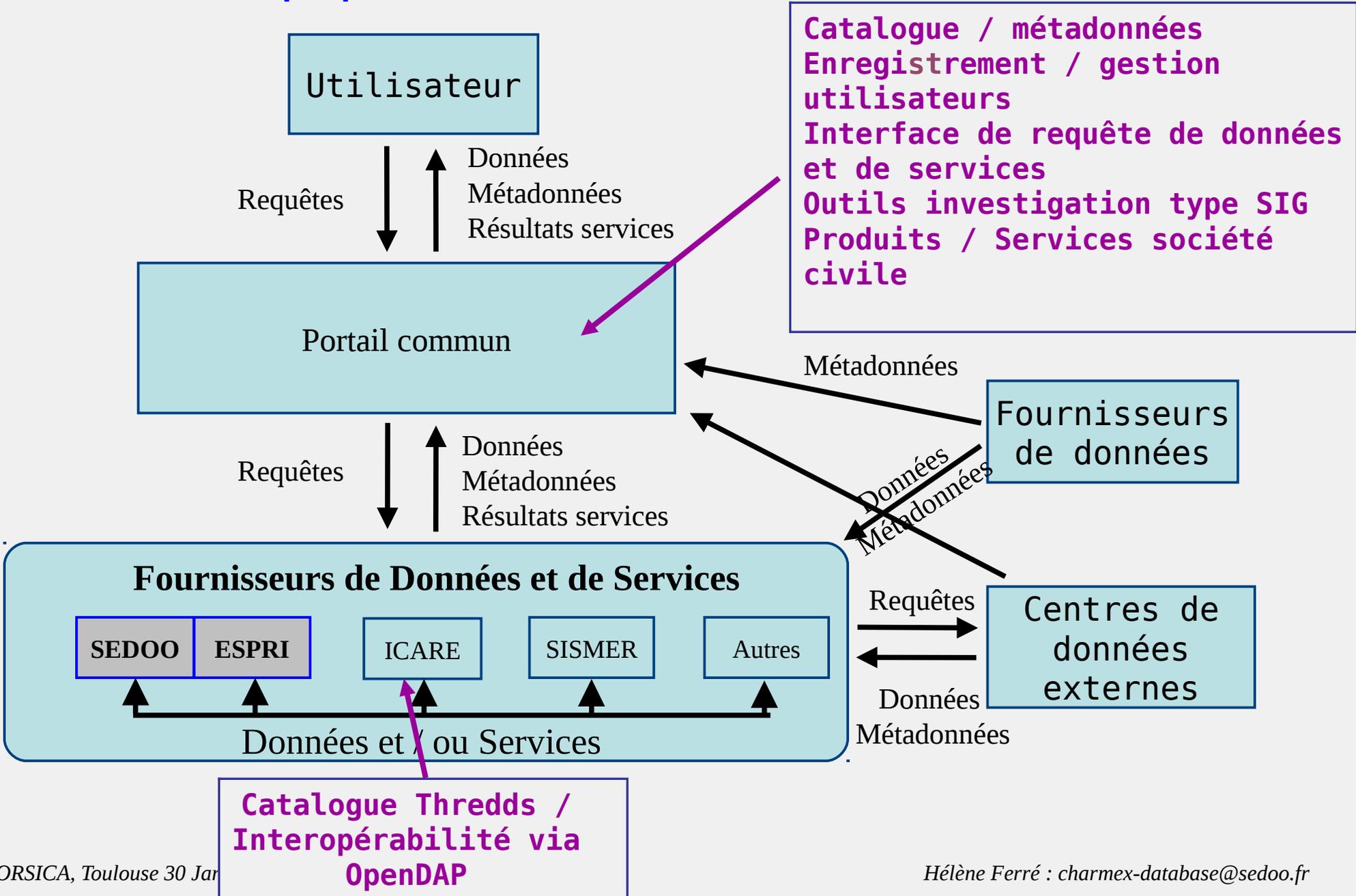
Gestion de la donnée -> Base relationnelle vs archives de fichiers

- Insertion / chaîne de traitement -> permet requêtes plus complexes
- Temps de travail long (~ 2 semaines / jeu)
- Identification et traitement des **jeux à insérer**

Pour ChArMEx
Données météo
Ozone
Monoxyde de carbone



Structure proposée



Etat actuel du portail

Outils communs

- Base de **métadonnées** partagée SED00-OMP et ESPRI-IPSL
 - PostgreSQL, ISO 19131, thesaurus GCMD+
 - DOI, niveau de qualité, condition spécifiques d'utilisation, ...
- **Formulaires d'enregistrement / demande** de données
- **Outil de recherche** dans les métadonnées
 - multicritères + full text
- **Catalogue** ordonné selon différents critères
- Fonctionnalité de **dépôt** des données
- Test protocoles interopérabilité
 - OpenDAP vs requêtes XML

Outils : HyMeX , ChArMEx -> data policy

- Formulaire d'**enregistrement** des utilisateurs
- Module d'administration des utilisateurs Admin corner (restricted)
- Sélection / **téléchargement des fichiers de données**



http://mistrals.sedoo.fr/

http://mistrals.sedoo.fr/

http://mistrals.sedoo.fr/CORSICA/

MISTRALS database

MISTRALS database | ChArMeX | HyMeX | MERMeX | TerMeX | More projects

TRAQA
CANOPE

Search
Search by keyword
Advanced search
Catalogue and data access
By projects
By parameters
By instruments
By platform types
Register

Platform types list, ordered by GCMD platform keywords

Access to...

- the dataset provided by the principal investigator.
- the homogenized dataset.
- data in another database.
- the campaign website quicklook charts.

IN SITU | MODEL | SATELLITE | VALUE-ADDED DATASETS

- Aircraft
- Atmospheric sites
- Balloons
- Drifters, buoys and moorings
- Gliders
- Ground networks
- Hydrometeorological sites
- Ocean sites
- Post-event surveys
- Radars
- Ships
- Other

MISTRALS programs
ChArMeX
HyMeX
MERMeX
TerMeX

More projects
CORSICA
MEUST
MOOSE

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Design by Wolfgang | XHTML 1.0 | CSS 2.0

Un onglet par projet

Information sur l'état des jeux de données

Tous les jeux du portail

Outils de recherche

Formulaires de métadonnées

CORSICA database

MISTRALS database | ChArMeX | HyMeX | MERMeX | TerMeX | More projects

CORSICA
MEUST
MOOSE

CORSICA database

Please visit the project website or browse the catalog.

Data users
News
Search
Search by keyword
Advanced search
Catalogue and data access

CORSICA database

MISTRALS database | ChArMeX | HyMeX | MERMeX | TerMeX | More projects

CORSICA > By platform types

Platform types list, ordered by GCMD platform keywords

Access to...

- the dataset provided by the principal investigator.
- the homogenized dataset.
- data in another database.

IN SITU | MODEL | SATELLITE | VALUE-ADDED DATASETS

- Atmospheric sites
 - Corsica sites and super-sites (CO)
 - Ersa
 - Semaphore du Cap Corse
 - Ozone analyzer, Ersa Semaphore
 - Wind farm site
 - Aerosol AERONET/PHOTON, Ersa
 - Ground networks
 - AERONET/PHOTON
 - Aerosol AERONET/PHOTON, Ersa

Tous les jeux de CORSICA



http://mistrals.sedoo.fr/

http://mistrals.sedoo.fr/CORSICA/

CORSICA database

MISTRALS database | ChArMEX | HyMeX | MERMeX | TerMeX | More projects

» CORSICA » By platform types

CORSICA

- Data users
- News
- Search
- Advanced search
- Catalogue and data access
- Data search
- By parameters
- By instruments
- By platform types

Platform types list, ordered by GCMD platform keywords

Access to...

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IN SITU | MODEL | SATELLITE | VALUE-ADDED DATASETS

- Atmospheric sites
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 - Wind farm site
 - Aerosol AERONET/PHOTON, Ersa
 - Ground networks
 - AERONET/PHOTON
 - Aerosol AERONET/PHOTON, Ersa

Outils de recherche

Data search

Keywords :

Search with: All of the above keywords Any of the above keywords

Instrument type:

Parameter keyword: -- Topic -- -- Term -- -- Var_level1 -- -- Var_level2 --

Period: Date begin (yyyy-mm-dd) Date end (yyyy-mm-dd)

Sort result: By instruments By platform types By dataset name

Instrument types list, ordered by GCMD instrument keywords

Access to...

- the dataset provided by the principal investigator.
- the homogenized dataset.
- data in another database.

- AUTOANALYZER
 - CO analyzer, Ersa windmill farm
- OZONE SENSOR
 - Ozone analyzer, Ersa Semaphore
 - Ozone analyzer, Ersa windmill farm
- PHOTOMETERS
 - Aerosol AERONET/PHOTON, Ersa
- VIDEO CAMERA
 - Webcam, Ersa

Zone

UnZoom

Zoom

Lat: 50 °0 0 "

Lon: 10 °0 0 "

Lat: 25 °0 0 "

Lon: 40 °0 0 "

**Pour ChArMEX
Données météo
Ozone
Monoxyde de carbone**

Show only datasets with available data ? yes no

Show only datasets with homogenized data ? yes no

search



http://mistrals.sedoo.fr/

Formulaire de métadonnées

CORSICA database

MISTRALS database | ChArMeX | HyMeX | MERMeX | TerMeX | More projects | Logged as charmex [logout](#)

> CORSICA > Data providers > In-Situ instrument registration

CORSICA

Required fields are in blue

[Reset](#)

General information

Dataset name:

Period: Date begin (yyyy-mm-dd): Date end (yyyy-mm-dd): not planned

Project:

[Add a project](#)

Contact information

Contact 1

Contact type:

Name: or add new (lastname firstname):

email1: email2:

Contact organism: or add New organism short name:

Full name: URL:

[Add a contact](#)

Data description

Abstract:

Observing strategy:

References:

Formulaires de métadonnées

Rapide description des données

Data use information

Use constraints:

Data policy: or add new

Database: or add new database

Database url:

Data format: or add new data format:

[Add a data format](#)

[Save](#)

Très important car paragraphe envoyé lors du téléchargement des données pour inviter les utilisateurs à vous citer dans leurs travaux

Use constraints CORSICA

This work was carried out in the framework of the CORSiCA project funded by the Collectivité Territoriale de Corse through the Fonds Européen de Développement Régional of the European Operational Program 2007-2013 and the Contrat de Plan Etat Région.



http://mistrals.sedoo.fr/

Fourniture des données

<http://mistrals.sedoo.fr/ChArMEx/Provide-data/>

Contact us ✉

charmex-database@sedoo.fr
databasecontact@hymex.org

Data providers
Provide metadata
In situ instrument
Multi-instrumented platform
Model outputs
Satellite products
Provide data

Provide data

Provide *in situ* data

ChArMEx data providers are invited to upload their data files on the ChArMEx ftp site: <ftp://sedoo.fr> (you will need an ftp client like filezilla or coreftp).
Use your ChArMEx login and password to connect to our ftp. If not already done, you can register at the following address: <http://mistrals.sedoo.fr/ChArMEx/Data-Access-Registration>

When possible, please convert your datafiles into netCDF or NASA-AMES format for data exchange.

- ▶ A simple guide to NASA-AMES file formats is available at : <http://cedadocs.badc.rl.ac.uk/734/na-brief-guide.html>.
- ▶ Complete information and examples to help you write NASA-AMES data files can be found at <http://badc.nerc.ac.uk/help/formats/NASA-Ames/>.
- ▶ We recommend to use the NILU NASA-AMES format. It is based on Nasa Ames 1001 but requires a more complete data description in the header : <http://ebas-submit.nilu.no/>.

Once connected to the FTP, please

- ▶ create your own directory
- ▶ upload your data files

Do not hesitate to provide any available documentation about the data. It will be automatically sent to every user who download the dataset.

If not already done, **add or update a metadata form** describing the datasets you are responsible for at the following address: <http://mistrals.sedoo.fr/ChArMEx/Provide-metadata>

After uploading your data, please inform us via e-mail (inform us ✉) so that we can make the data available.
Don't forget to mention the following items:

- ▶ The name of the FTP directory where you uploaded your data
- ▶ The title of the Metadata form describing your dataset
- ▶ Which data policy (Public, Associated Scientists or Core Users Access,(see [datapolicy.pdf](#)) and "use constraints" should be applied to your data.
Use constraints example: Permission is granted to use these data and images in research and publications when accompanied by the following statement: "Data were obtained from the ChArMEx program, sponsored by Grants MISTRALS/ChArMEX [and the relevant project or Institution or Lab]." or "The authors acknowledge [the relevant project or Institution or Lab] for supplying the data and the ChArMEX database teams (ESPR/PSL and SEDOO/OMP) for their help in accessing the data."

Provide *satellite and model* data

ChArMEx data providers are invited to ([Contact us](#) ✉) in order to define the best way to upload their satellite or model data.



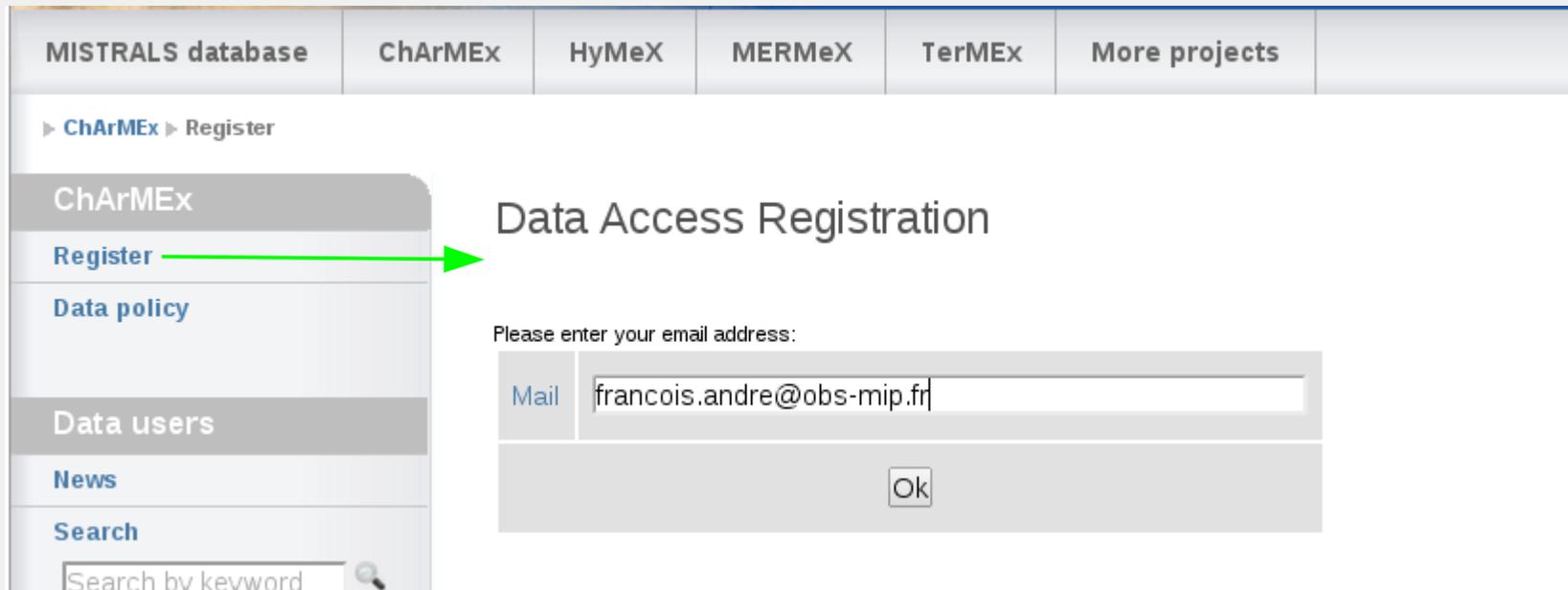
<http://mistrals.sedoo.fr/>

Enregistrement d'un utilisateur

Données accessibles au téléchargement selon la data policy

Pour télécharger les données vous devez être enregistré dans la base de données avec une adresse mail

<http://mistrals.sedoo.fr/ChArMEX/Data-Access-Registration/>



The screenshot shows a web interface with a navigation menu on the left and a registration form on the right. The navigation menu includes links for 'MISTRALS database', 'ChArMEX', 'HyMeX', 'MERMeX', 'TerMeX', and 'More projects'. Under 'ChArMEX', there are sub-links for 'Register', 'Data policy', 'Data users', 'News', and 'Search'. A green arrow points from the 'Register' link to the registration form. The form is titled 'Data Access Registration' and contains a text input field for an email address, with the value 'francois.andre@obs-mip.fr' entered. Below the input field is an 'OK' button.



http://mistrals.sedoo.fr/

Formulaire d'enregistrement d'un utilisateur

Data Access Registration

Mandatory fields are in blue

First Name	<input type="text"/>
Family Name	<input type="text"/>
Affiliation	<input type="text"/>
Place of Work	
Address	<input type="text"/>
Zip Code	<input type="text"/>
City	<input type="text"/>
Country	-- Country --
Contact	
Phone Number	<input type="text"/>
Mail	toto@obs-mip.fr
Planned Work	
Description of Work (more than 350 characters)	<input type="text"/>

Rappel des règles de la data policy
A signer obligatoirement

Description des activités ou contexte de travail qui permet d'évaluer la pertinence de la demande

Do you participate in one of the ChArMEx working groups ?	<input type="checkbox"/> ChArMEx WG1 - Emissions and source apportionment <input type="checkbox"/> ChArMEx WG2 - Chemical processes <input type="checkbox"/> ChArMEx WG3 - Transport processes and air quality <input type="checkbox"/> ChArMEx WG4 - Radiative budget and climatic impact <input type="checkbox"/> ChArMEx WG5 - Deposition of nutrients and Hg <input type="checkbox"/> ChArMEx WG6 - Long-term trends and variability <input type="checkbox"/> ChArMEx WG7 - Future evolution
Do you participate in one of the ChArMEx subprojects ?	<input type="text"/>
Do you participate in another project concerning the Mediterranean area ?	<input type="text"/>
Supervisor	
If you are a student, please indicate the name and the affiliation of your supervisor.	
Supervisor Name	<input type="text"/>
Supervisor Affiliation	<input type="text"/>
Data and Publication Policy	
With this form, I fully accept the ChArMEx data and publication policy (click here to access pdf file). In particular:	
<input type="checkbox"/> I apply for access to the data in order to perform the work described above. <input type="checkbox"/> I commit not to use data for commercial applications. <input type="checkbox"/> I commit to never redistribute data to any other person nor institution. <input type="checkbox"/> I commit to contact the provider of the required data in order to offer collaboration.	
In the case of any publication or communication using datasets or products obtained in the database:	
<input type="checkbox"/> I commit to agree on either co-authorship or acknowledgement with the principal investigators of the datasets. <input type="checkbox"/> I commit to acknowledge the agencies which have funded the data collection and the database centres, using the mentions indicated in the dataset metadata and files. <input type="checkbox"/> I commit to send the publication to the ChArMEx Project Office using the address publiccharmex@sedoo.fr as soon as it is submitted to a journal, conference or other organisation.	
If I process a dataset or product based on data received under the ChArMEx data policy:	
<input type="checkbox"/> I commit to inform the database managers. <input type="checkbox"/> I accept that the processed dataset or product may be disseminated under the ChArMEx data policy, if so decided by the ChArMEx SC.	
<input type="button" value="Apply"/>	

Catalogue par instrument

MISTRALS database ChArMEX HyMeX MERMeX TerMEX More projects Logged as charmex logo

► CORSICA ► By instruments

CORSICA

Data users

News

Search

Search by keyword

Advanced search

Catalogue and data access

Data search

By parameters

By instruments

By platform types

Data providers

Provide metadata

In situ instrument

Administrators

Instrument types list, ordered by GCMD instrument keywords

Access to...

- the dataset provided by the principal investigator.
- the homogenized dataset.
- data in another database.

AUTOANALYZER

- CO analyzer, Ersa windmill farm

OZONE SENSOR

- Ozone analyzer, Ersa Semaphore
- Ozone analyzer, Ersa windmill farm

PHOTOMETERS

- Aerosol AERONET/PHOTON, Ersa

VIDEO CAMERA

- Webcam, ERSA

Données présentes
-> Jeu affecté d'un DOI

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Design by Wolfgang | XHTML 1.0 | CSS 2.0



Fiche de métadonnées

Dataset name	Ozone analyzer, Ersa windmill farm		
Created on	2011-06-01		
Project(s)	ChArMEx CORSICA		
Date begin (yyyy-mm-jj)	2012-05-31	Date end (yyyy-mm-jj)	not planned
Contacts	Athier Gilles - LA (UPS/CNRS) (PI or Lead scientist) Gheusi François - LA (UPS/CNRS) (PI or Lead scientist) Sauvage Stéphane - EMD (PI or Lead scientist) Meyerfeld Yves - LA (UPS/CNRS) (Dataset contact)		
Data access	Original dataset as provided by the Principal Investigator Homogenized dataset		
History	<p>UPDATE 2013-10-07</p> <p>UPDATE 2013-02-18 Dataset deleted</p> <p>ISSUE 2013-02-18</p>		

Data description

Abstract	Data series of ozone mole fraction recorded on a remote site and representative of the marine boundary layer over the Ligurian sea
Observing strategy	UV absorption ozone analyzer TEI 49I
References	

Instrument information

Instrument type	OZONE SENSOR		
Manufacturer	Thermo Environmental Instruments Inc		
Model	TEI 49I		
Observation frequency	5 min		
Longitude (°)	9.3583	Latitude (°)	43.0054
Height above ground (m)	3		

[View instrument location on a map](#)

Geographic information			
Location 1			
Predefined site	Corsica sites and super-sites (CO) > Ersa > Wind farm site		
Site type	Atmospheric sites		
Measured parameter			
Parameter name	Ozone mole fraction		
Parameter keyword	Atmosphere > Atmospheric Chemistry > Oxygen Compounds > Ozone		
Unit	parts per billion by volume - ppbv		
Acquisition methodology and quality	UV absorption Combined standard uncertainty = 1.2 ppbv at 100 ppbv measurement level (see Gheusi et al. 2011, Atmospheric Research, doi:10.1016/j.atmosres.2011.04.014)		
Date begin (yyyy-mm-jj)	2009-09-29	Date end (yyyy-mm-jj)	
Sensor precision / uncertainty			
Derived parameter			
Data use information			
Use constraints	Permission is granted to use these data and images in research and publications when accompanied by the following statement : « All measurement presented here are from the Chemistry- Aerosol Mediterranean Experiment project (ChArMEx , http://charmex.lsce.ipsl.fr), which is the atmospheric component of the French multidisciplinary program MISTRALS (Mediterranean Integrated Studies aT Regional And Local Scales). ChArMEx-France was principally funded by INSU, ADEME, ANR, CNES, CTC (Corsica region), EU/FEDER, Météo-France, and CEA »		
Data policy	ChArMEx data and publication policy		
Database	ChArMEx database, France		
Original data format(s)	ASCII		
<input type="button" value="Update this dataset"/>			



http://mistrals.sedoo.fr/

Interface de sélection des fichiers de données

MISTRALS database | ChArMEX | HyMeX | MERMeX | TerMEX | More projects | Logged as [Hélène Ferré](#) | [logout](#)

► MISTRALS database ► Data download

CORSICA

Data users

News

Search

Search by keyword

Advanced search

Catalogue and data access

Data search

By parameters

By instruments

By platform types

Data providers

Provide metadata

In situ instrument

Administrators

Current Directory: /

Select All

2012

2013

Data Basket

Selection is empty

MISTRALS database | ChArMEX | HyMeX | MERMeX | TerMEX | More projects | Logged as [Hélène Ferré](#) | [logout](#)

► MISTRALS database ► Data download

CORSICA

Data users

News

Search

Search by keyword

Advanced search

Catalogue and data access

Data search

By parameters

By instruments

By platform types

Data providers

Provide metadata

In situ instrument

Administrators

Current Directory: 2012

Select All

Remove All

Submit

O3_ERSA_20121101_20121201.txt	228.47 KB		2012/O3_ERS...0121201.txt	
O3_ERSA_20121201_20130101.txt	216.23 KB		2013	

I want to be informed by email when this dataset is updated.

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Design by Wolfgang | XHTML 1.0 | CSS 2.0

Copyright © 2010 - 2013 Sedoo
Design by Wolfgang | XHTML 1.0 | CSS 2.0



<http://mistrals.sedoo.fr/>

Interface de sélection des fichiers de données

Data download

Data

Selected dataset: Ozone analyzer, Ersa windmill farm

Parameters: Ozone mole fraction

Quality flag: yes no Uncertainty: yes no

Period

Date min (yyyy-mm-dd): 2012-11-01 Date max (yyyy-mm-dd): 2012-12-01

Zone

Map showing Corsica and surrounding regions. Mouse position: Lat: 44°15'0" Lon: -2°15'0"

UnZoom

Zoom: Lat: 50 Lon: -10 Lat: 25 Lon: 40

Options

Format: Ascii (Nasa Ames) netCDF (available soon)

Split result by station (available soon)? yes no

Compression: zip gzip

Submit

Ozone analyzer, Ersa windmill farm

Data download
Request successfully sent. The result will be send to you by email.

Dear database user,

Your Request to SGBD CORSICA sent on 30/01/2014 07:52 with the number 266 has successfully ended on 30/01/2014 07:52.

The results of this request are available at the following address: http://mistrals.sedoo.fr/extract/download.php?resultId=a71122b0-1bc0-4f30-aa6e-5a66156bd8aa&project_name=CORSICA

To minimize the space used by the results, they will only be stored during 2 weeks.

The results contain data from the following datasets:

*Ozone analyzer, Ersa windmill farm
Metadata: <http://mistrals.sedoo.fr/extract/download.php?datsid=623>
Dataset contact: Meyerfeld Yves (Laboratoire d'Aérodologie (Université Paul Sabatier Toulouse III et CNRS)), email: yves.meyerfeld@aero.obs-mip.fr
PI or Lead scientist: Gheusi François (Laboratoire d'Aérodologie (Université Paul Sabatier Toulouse III et CNRS)), email: francois.gheusi@aero.obs-mip.fr
PI or Lead scientist: Sauvage Stéphane (Ecole des Mines de Douai), email: stephane.sauvage@mines-douai.fr
PI or Lead scientist: Athier Gilles (Laboratoire d'Aérodologie (Université Paul Sabatier Toulouse III et CNRS)), email: Gilles.Athier@aero.obs-mip.fr

Use constraints:
Permission is granted to use these data and images in research and publications when accompanied by the following statement : « All measurement presented here are from the Chemistry- Aerosol Mediterranean Experiment project (ChArMEx , <http://charmex.lsce.ipsl.fr/>), which is the atmospheric component of the French multidisciplinary program MISTRALS (Mediterranean Integrated Studies aT Regional And Local Scales). ChArMEx-France was principally funded by INSU, ADEME, ANR, CNES, CTC (Corsica region), EU/FEDER, Météo-France, and CEA »

We remind you that you are expected to contact the PI(s) of the data in order to propose collaboration.

Regards,
The CORSICA database service



http://mistrals.sedoo.fr/

Interface administrateur

Download history

Date	Mail	Dataset
2014-01-28	alexandre.kukui@cnrs-orleans.fr	VHTDMA LAMP
2014-01-28	francois.gheusi@aero.obs-mip.fr	Ozone analyzer, Ersa windmill farm
2014-01-28	francois.gheusi@aero.obs-mip.fr	CO analyzer, Ersa windmill farm
2014-01-28	francois.gheusi@aero.obs-mip.fr	CO, Ersa
2014-01-22	alexandre.kukui@cnrs-orleans.fr	LOAC - LPC2E
2014-01-22	alexandre.kukui@cnrs-orleans.fr	Meteorological station, Ersa windmill farm
2014-01-22	alexandre.kukui@cnrs-orleans.fr	NIMHC, Ersa
2014-01-22	alexandre.kukui@cnrs-orleans.fr	Light carbonyls, Ersa
2014-01-20	laaziz.elamraoui@meteo.fr	ULM - VESSAEP
2014-01-20	laaziz.elamraoui@meteo.fr	ATR Core in-situ measurements -TRAQA
2014-01-20	laaziz.elamraoui@meteo.fr	ATR Core in-situ measurements - ADRIMED
2014-01-20	laaziz.elamraoui@meteo.fr	ATR AEROSOL SP2 - ADRIMED

Email notifications

Mail	Dataset
ambre.demoisson@univ-tln.fr	MFRSP, Lampedusa
ambre.demoisson@univ-tln.fr	Ultrafine particle counter, Mallorca

Dataset: 0-250 m ocean temperature, mooring lir

URL: http://Data-Download?jeu=327

local file: file://localhost/export1/mistrals/hymex_data/MooredBuys/Tmer_Azur

Role[s]: charmexAsso, charmexCore, hymexAsso, **hymexCore**, public, traqa

Admin corner

- Registered Users
- Registration Requests
- Rejected Registration Requests
- Journal
- Download history
- Email notifications
- Data updates
- Add a news (data update)
- Changes
- URL management
- Edit URL
- New dataset
- New external dataset
- New QL link
- New IPSL dataset
- Dataset overview
- Metadata quality
- Roles
- DOI management
- DOI list
- Stats
- Data downloads
- User registrations
- Database
- Inserted datasets
- Params

Gestion des utilisateurs

Inventaire de mises à jour

Gestion des jeux de données

Information sur les jeux de données

Statistiques

Information sur les jeux Et les paramètres

Metadata quality

Dataset	Dataset description	Dates	Use constraints	Sensors	Sites	Params	Total	
Absorption coefficient, Mallorca		13 / 25	12 / 15	0 / 10	9 / 15	8 / 15	18 / 20	59%
Aerodyne CAPS CNRM GAME		16 / 25	15 / 15	10 / 10	6 / 15	8 / 15	13 / 20	67%

Database Roles

Dataset	traqa	charmexCore	charmexAsso	public
Aerodyne CAPS CNRM GAME		X	X	
AOD blended distribution over the Mediterranean region				X
ATR AEROSOL CAPS - ADRIMED		X		



<http://mistrals.sedoo.fr/>

Evolution

Nouveaux programmes : MERMeX , TerMEx , ...

Évolution des formulaires

- Enregistrement des utilisateurs
- Formulaire multi instruments / multi paramètres
- Onglet PI dans l'interface utilisateur, ...

Evolution en fonction des besoins spécifiques