







MAP Knowledge Management Strategy for the Mediterranean Sea

Annalisa Minelli, Knowledge Management Officer



Summary

Part #1

- The Strategy in brief
 - Context
 - Objectives
 - Principles
 - A vision
- Strategy implementation: the Data Policy
- Strategy implementation: the Knowledge Management Platform
- Networking activities

<u>Part #2</u>

- From principles and tools to practice: an exercise of Knowledge Management
 - A dataset from «outside»
 - Check after data policy prescription
 - Upload and metadatation into the KMaP
 - Example of use of uploaded data in the KMaP

environment programme



Part #1

The Strategy in brief

(UNEP/MED WG.623/4)



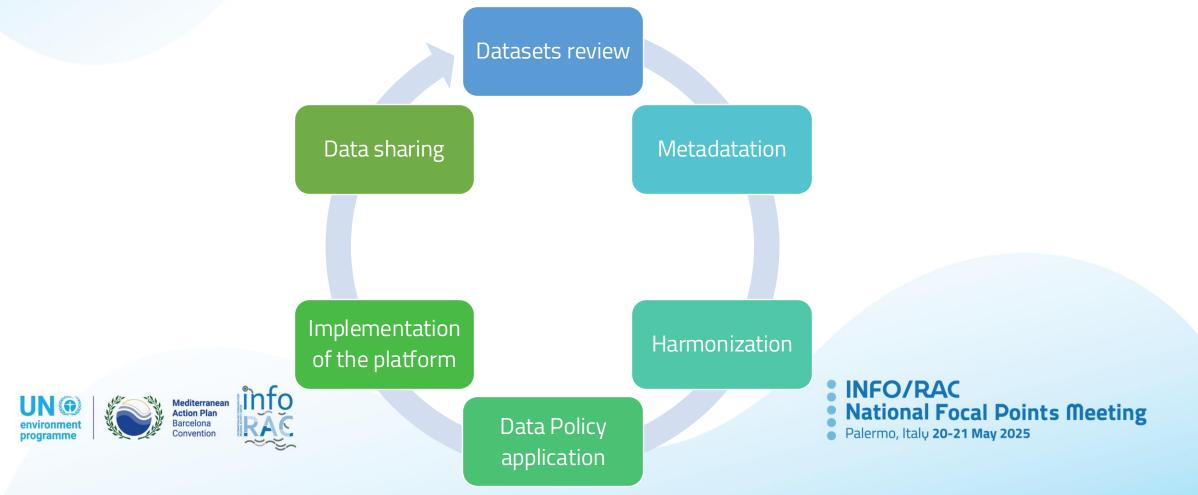


At a global level, the Knowledge Management practices are subjected to rapid changes, within a context of fast technological evolution:

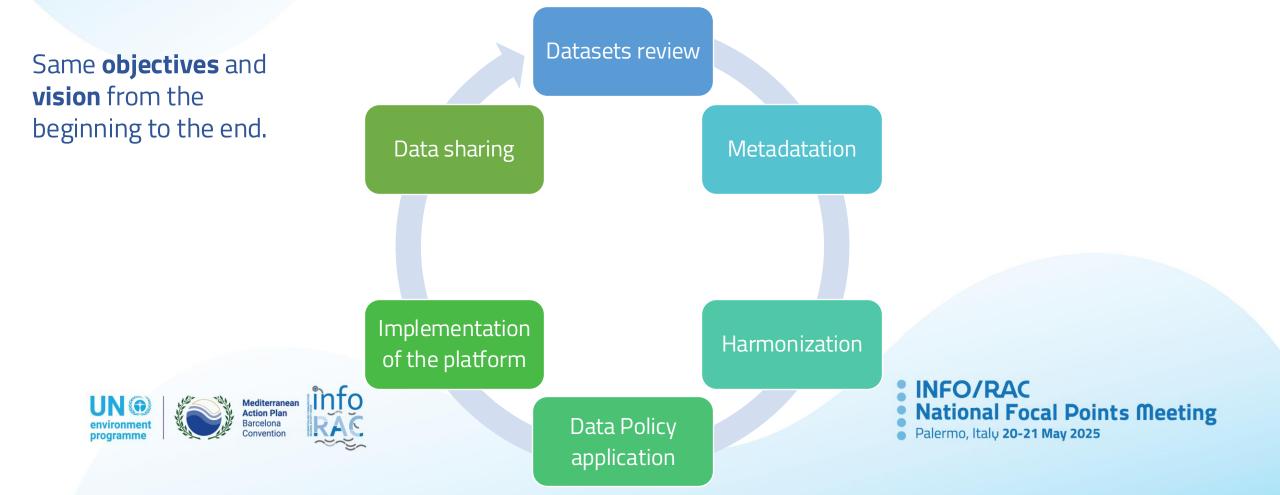
- Information overflow Vs critical approach to news
- Big data Vs computation capacity
- Need for canalization of potential of AI
- Need for capitalization of multi-source and interdisciplinary information for decision making
- Decentralized data management models
- Gaps among countries in accessing knowledge



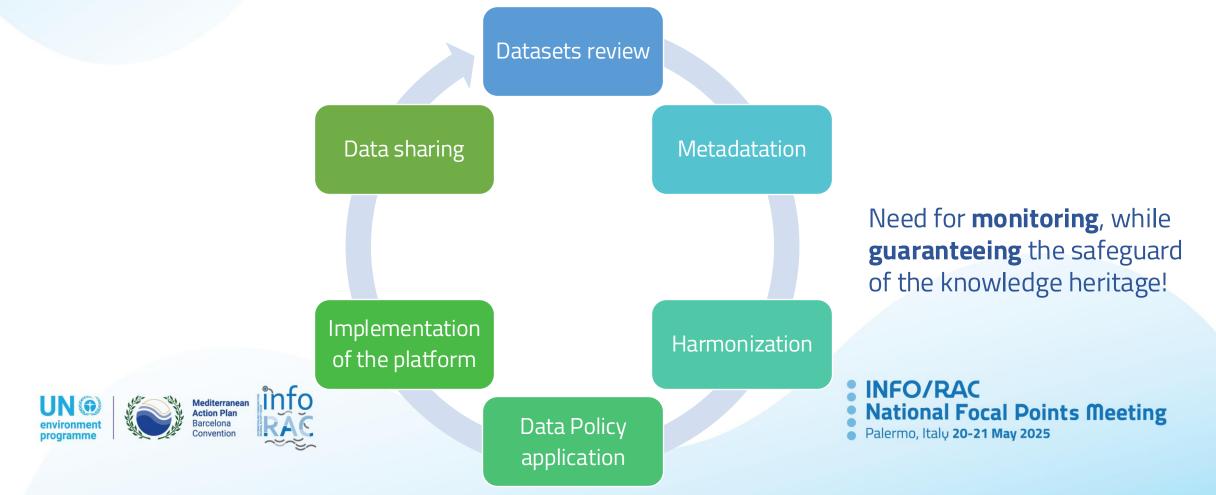
At a regional level, UNEP-MAP is pursuing its own work on data/information/knowledge since years.



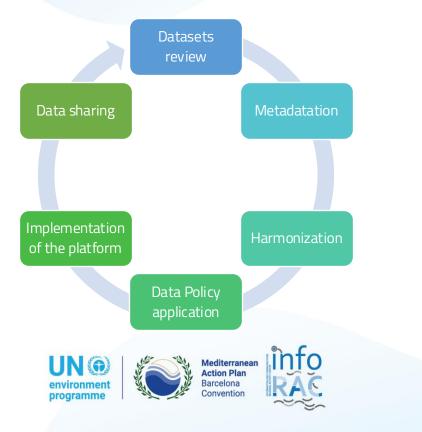
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The strategy puts black on white **principles** we've always pursued, which are at the base of our Knowledge Management System, helping us **monitoring** advacements, and **preventing** risks

Objectives of KMS







Create a single access point to Med Knowledge heritage



Facilitate timely exchange of knowledge



Promote the adoption of efficient communication models



Provide a reference platform for stakeholders



- give data an identifier (e.g. DOI)
- ensure data indexing
- evaluate presence of sensitive data
- eventual commercial interests or patents
- provide remote access, if needed
- individuate data owner
- individuate a data access manager
- ensure long term accessibility
- choice of shared file formats (standard)
- use of multiplatform means (services/instruments)
- eventual furniture of software with data
- wide metadatation and comments (software)
- presence of a README (parameters, methods, etc.
- respect of files and folders naming conventions
- eventual presence of a data pape
- liberal license

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Findable

Accessible

nteroperable

Reusable



Findable

Accessible

Interoperable

Reusable



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Mediterranean Sea can be considered as a unique environment because of its geographical configuration and a **sentinel** for upcoming environmental challenges and climate change.



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At **political level** is also challenging putting together different background and practices on data management, this is the reason why <u>UNEP-MAP experience is unique in this sense</u>.



The strategy is a living document

- > The strategy acts via its **two implementation tools**: the Data Policy and the Knowledge Management Platform (KMaP)
- > The monitoring should happen through **indices** based on implementing tool's outreach capacity and their compliance with the principles



Recalling the mandate of INFO/RAC, as laid down in Decision IG.19/5 on the Mandates of the Components of MAP, adopted by the Contracting Parties at their 16th Meeting (COP16) (Marrakesh, Morocco, 3-5 November 2009), and its relevance to the implementation of this Decision,

Acknowledging the importance to apply the UNEP/MAP Data Policy in the data managed by the UNEP/MAP Barcelona Convention System in order to achieve a base level of legal interoperability,

Morocco, 3-5 November 2009),



only view but also create contents and manage rights on their own material, creating a proper "personal use" space inside the platform. Come and discover with us the Knowledge MAP!

- > The strategy is a **living document**
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Digital transformation represents a **mindset** characterized by proactivity, responsiveness to latest technologies, and efficiency in problem solving while identifying the best technical solution to complex problems.



Implementing KMS: the Data Policy

UNEP-MAP Data Policy (in force since 2021) aims to achieve a base level of cooperation with national and international legislation (legal interoperability) and states...

- **Qualities** of involved elements, such as:
 - Data should be available at <u>no cost</u>, at the <u>most updated version</u> and in the <u>lesser time</u> than the possible.
 - Long term data series should remain available in long term repositories.
 - <u>Quality assessment and control procedures should be put in place.</u>



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- Pillar actions:
 - Avoid data <u>duplication</u>.
 - Avoid duplication of <u>efforts</u>.
 - Recognize <u>data as a public good</u>.
 - Ensure interoperability.



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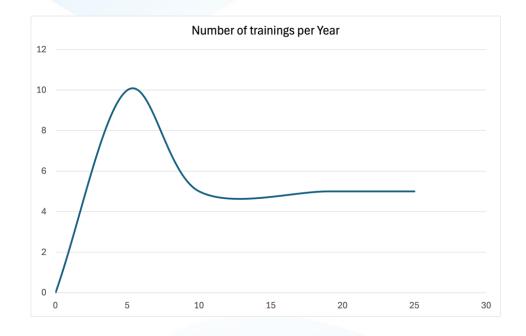


Paying attention to:

- Open Access
- Sensitive data (both environmental or personal)

Effectiveness of the Data Policy

- Strategy Effectiveness assessed through its **implementation tools**
- Data Policy evaluated using an Outreach Index Defined as the number of dissemination activities over time (in years)





- Included **training delivered** to the CPs, interventions to conferences, scientific contributions
- Considering the size of the user base, the index should grow up to 10 in the first five years and then diminish, stabilizing around 5 form the 10th year.
- The index should be assessed each 2 years.

Implementing KMS: the KMaP

<u>KMaP</u> is the environment where data/information/knoweldge sharing practically occurs.



KMAP is conceived as a unique access hub to e UNEP-MAP (Mediterranean Action Plan) knowledge heritage. It is composed by a Data Hub, accessible through the "Maps" button, collecting geographical data in broader sense. The Knowledge Hub, accessible through "Library" button, collecting all the UNEP-MAP documental heritage, and an Exchange Hub aimed to enforce the cooperation with UNEP-MAP contributors, stakeholders, citizens, and communities of interests. At present, two sections are completed: the Data Hub and the Knowledge Hub, while the Exchange Hub is in preparation. Users with major rights granted can not only view but also create contents and manage rights on their own material, creating a proper "personal use" space inside the platform. Come and discover with us the Knowledge MAP!

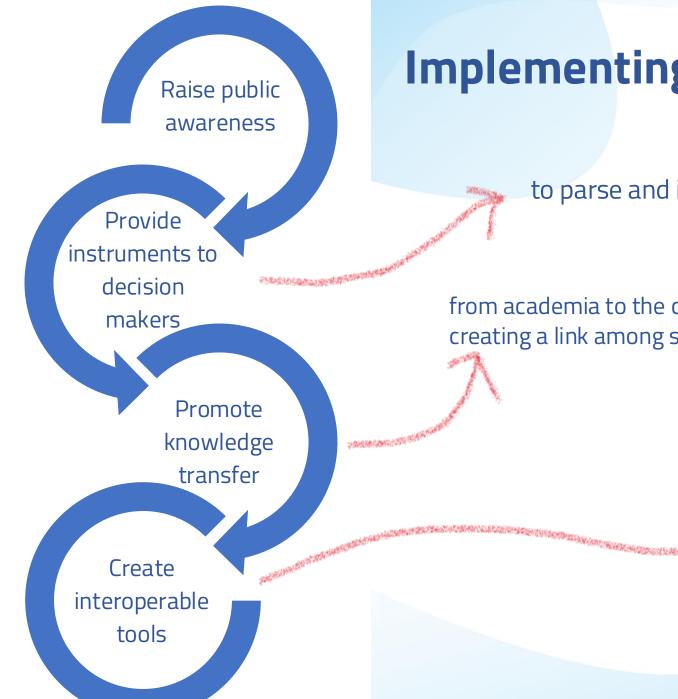


Implementing KMS: the KMaP

KMaP is the environment where data/information/knoweldge sharing practically occurs.

- Prototype is up and running since **1.5 years**.
- Contents grew **from about 12k** elements at the launch **to more than 16k** elements now.
- The number of dataset particularly increased due to the use of the platform as a reference for handling data connected to the last **MED-QSR**
- Activities on the KMaP are constantly growing due to its use for **many agreements** where UNEP-MAP is involved (e.g. Pelagos Agreement, NW Med PSSA).
- Its use is foreseen to increase due to the use of KMaP as geographical data viewer for IMAP data, and the publication of the new «Network» page (Knowledge Exchange Hub), whose first protoype has just been released.





Implementing KMS: the KMaP objectives

to parse and interpret data

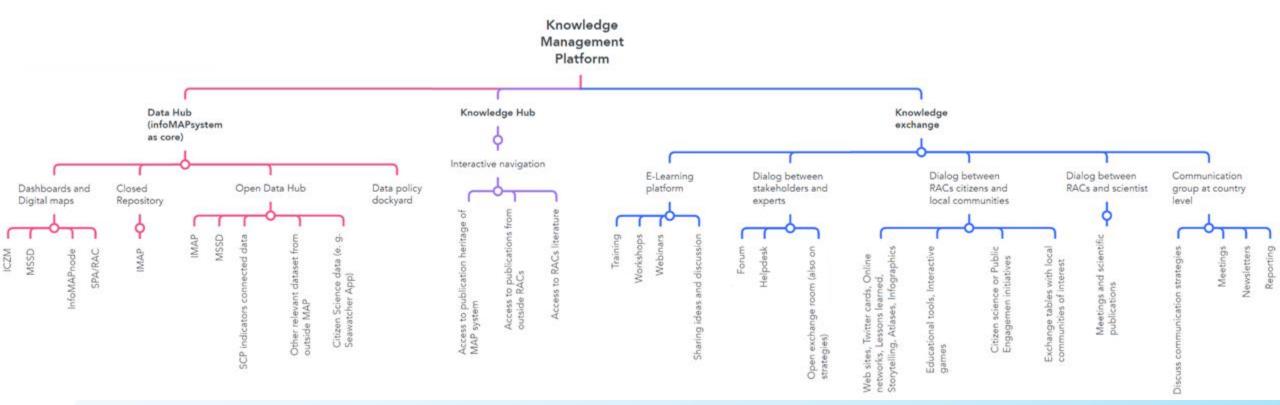
from academia to the civil society by creating a link among science and policy

> to make available institutional data to scientists in co-creation contexts

Implementing KMS: the KMaP structure

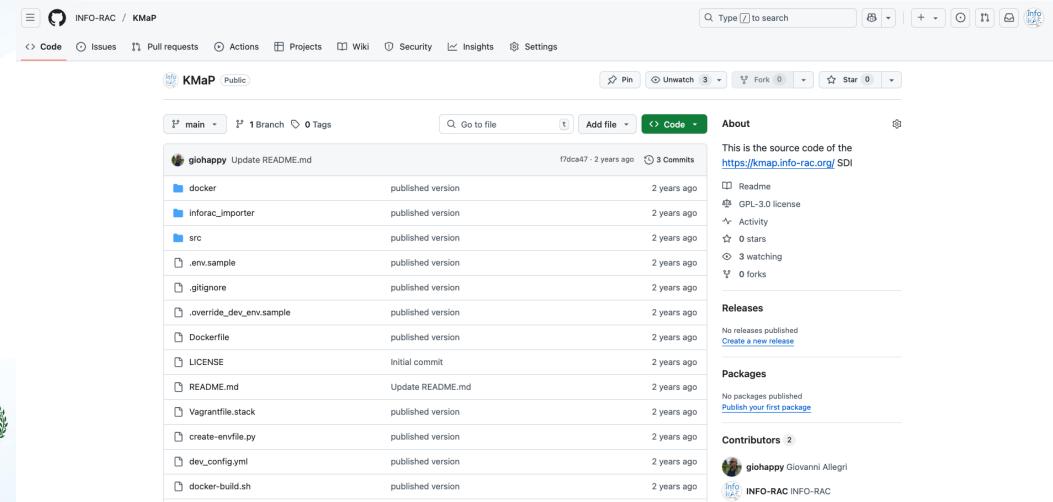
It is composed by three parts:

- **Data Hub**, collecting all the geographical or geo-related resources of UNEP-MAP.
- Knowledge Hub, that collects UNEP-MAP documental assets.
- **Knowledge Exchange Hub**, that houses some user-specific instruments to raise awareness on UNEP-MAP works.



Implementing KMS: the KMaP code

Entirely relying on Open Source software, and all the code <u>has been released</u> via INFO/RAC Github channel, so its' easy to learn from its structure:





Implementing KMS: the KMaP features

Built from the effort of the **Data management task force** to recognise all the available data/infromation/knowledge to be put together in the KMaP.

Deepen of **user requirements** individuation, definition of **different access levels** to the platform and drafting of a **logic behind the platform navigation**.

	User	Is registered?	Can Upload?	Can Edit/Delete?	Can View?	Can Download?	Can Set Privileges?
Contracting Parties	СР	Yes	Yes	Yes, their data	Yes. Public and restricted material (following sharing regulations)	Yes. Public and restricted material (following sharing regulations)	No
	MAP CU and RACs (except INFO/R AC)	Yes	Yes	Yes, their data	Yes. Public and restricted material (following sharing regulations)	Yes. Public and restricted material (following sharing regulations)	No
MAP components	INFO/RAC	Yes	Yes	Yes, all the material on platform	Yes, all the material on platform	Yes, all the material on platform	Yes
MAP partners	Stakeholders a nd researchers	Yes	No	No	Yes, Public and restricted material (following sharing regulations)	Yes, Public and restricted material (following sharing regulations)	No
Other users	Anonymous	No	No	No	Yes, only public material	Yes, only public material	No

Available products type are:

1. Layers and maps: shared via the Data Hub, a layer is a single dataset while a map is a superimposition of layers resulting in a combination of datasets, with a specific communication aim.



Coastday - past events

📩 < View dataset

🕘 a dataset from PAPRAC - / May 12th 2023

This dataset refers to all the past Coastday events country by country. Coastday is an event of awareness rising organized yearly by PAP/RAC and involves Contracting Parties from the whole MAP. Category: MSP

Species distribution analysis

🕲 a map from INFORAC Editor / February 13th 2023

Spatial analysis of species distribution by crossing SPAMI areas, species distributions of horse mackerel and Mediterranean mussel. Category: Species

View map

Available products type are:

2. Geostories and Dashboards: shared via the Data Hub, geostories are powerful divulgation instruments that combine text, interactive maps, and other multimedia content like images and video or other third-party contents; dashboards provide charts, maps, tables, texts and counters attached to datasets with the aim to visualize specific data in context, interact spatially and analytically with the data by creating connections between widgets, perform a first analysis on involved data/layers.

wakis et al., 2020

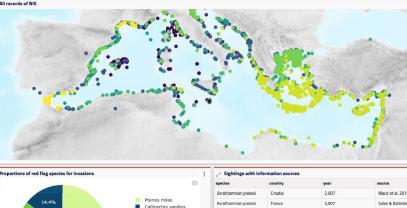
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atsanevakis et al., 2020

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atsanevakis et al., 2020





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Acrothamnion p Plotosus lineatu

Caulerna taxifolia

Rugulopteryx okar

tharp decreasing trend in major incidents has been recent decades, worldwide and in the It can be concluded that the impact of the igulatory framework adopted through the laritime Organization (IMO), as well as of technical and of cooperation activities undertaken at regional sitive, especially as far as prevention of accidental cerned.



Available products type are:

3. Documents: shared via the Knowledge Hub, the library implements a full text search functionality able to retrieve documents also based on their contents. All the documents have been linked to their sources, not harvested, where sources are RAC's libraries, UNEP and UNEP-MAP libraries

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Available products type are:

4. Remote services: via the Data Hub, KMaP links numerous remote layers from other portals and, conversely, KMaP public geographic data is available to be shared by means of remote services working with OGC standards WMS and WFS. In this way other portals/platforms, but also desktop

GIS, can exploit UNEP-MAP data

Here is where interoperability practically occurs!

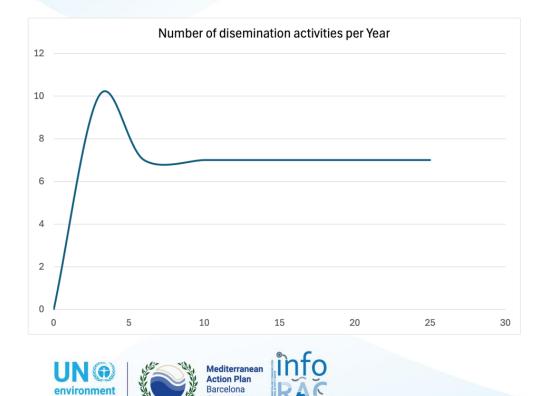
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Server Status GeoServer Logs Contact Information	For more information visit \$(organization).								
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Effectiveness of KMaP

To measure the effectiveness of the Strategy we should measure the effectiveness of its implementing tools. For KMaP an **outreach index** has been identified, defined as the number of dissemination activities pursued in time (measured in years).



- Included training delivered to the CPs, interventions to conferences, scientific contributions
- Considering the size of the user base, the index should grow up to 10 in the first three years and then diminish, stabilizing around 7 from the 5th year.
- The index should be assessed each 2 years.

Effectiveness of KMaP

Moreover a set of numerical indices are put in place to evaluate outreach and compliance with principles of the Strategy:

- Number of new items (all products are counted) outreach measure
- Number of remote services made available compliance measure
- Completeness of metadata compliance measure

All of them are meant to be assessed each 2 years.

A complete risk assessment on both the Data Policy and the KMaP is supposed to be delivered each two years, together with the assessment of individuated indices, to prevent the misuse of the tools, enhance their operationality and identify eventual risks and countermeasures



Sharing Knowledge IS cooperate

Sharing Knowledge in an open access frame MEANS cooperate with others and create a network of knowledge sharing with other relevant bodies and stakeholders.

UNEP-MAP built its own network in the years and now we are working in synergy with:

Integrate into KMaP available documentation on Barcelona Convention present on InforMEA platform

Update InfoMEA e-learning course on UNEP-MAP

Explore interoperability among INFO/RAC and InforMEA moodle platforms



InforMEA

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Mention of UNEP-MAP experience in the GEDS as an example of best practice for interoperability and standards application

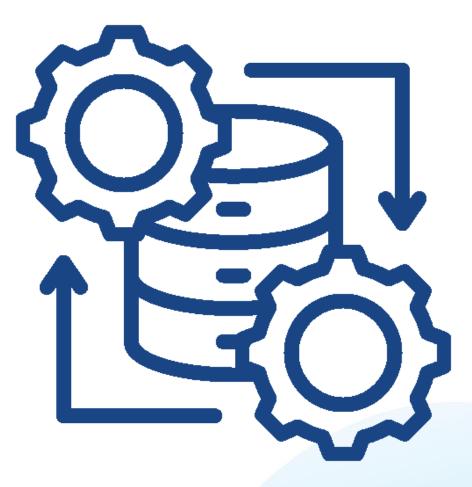
UNEP

Participation in regional consultation for Global Environmental Data Strategy

Inclusion of INFO/RAC in the expert group for GEDS design

Part #2

From theory To practice!



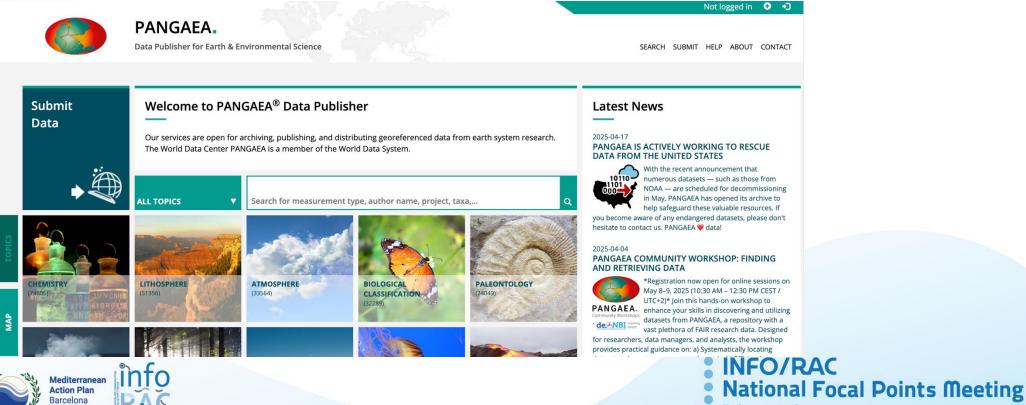




programme

Many repositores hold interesting data, Pangea is one of them.

Let's go to *www.pangea.de* and type «Mediterranean Sea» on the Search bar



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Some results will pop-up.

Let's choose the Kremling and Petersen datasets (https://doi.org/10.1594/PANGAEA.604843)

Points Meeting

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Dataset Author MEDAR Group (2607) Shipboard Scientific Party (1122) Schweingruber, Fritz Hans (1036) Krasakopoulou, Evangelia (929) Souvermezoglou, Ekaterini (891) Emeis, Kay-Christian (826) Robertson, Alastair H F (703) OMEX Project Members (684) more Dataset Publication Year unpublished (549) 2025 (107) 2024 (275) 2023 (234) 2022 (257) 2021 (293) 2020 (567) 2019 (745) more	 Kulebakina, LG; Kozlova, SI (1985): Mercury concentrations in waters of the Atlantic Ocean and Mediterranean Sea Abstract: Total mercury concentration in waters of the Atlantic Ocean and Mediterranean Sea measured in January-App varied from 0.007 to 0.192 µg/l. Particulate form was 1.6-16% of dissolved form. Inorganic mercury accounted 16-67% of dissolved mercury. Total mercury concentration in the surface film was 0.74-1.85 µg/l. 10-40 times than in seawater. Concentration of particulate form in the film was from 100 to 400 times higher than in seaw Size: 26 datasets https://doi.org/10.1594/PANGAEA.756001 – Score: 78.25 Kremling, K; Petersen, H (1981): Hydrography and water chemistry of the open Mediterranean S aviere collected from 8 vertical profiles and 7 coastal stations for trace metal analysis. The sampling, processin analysis was performed under strict "clean room" conditions. The grand averages from all profiles (± st. dev. of the in samples) of 0.40 ± 0.16 µg/l Zn, 17.4 ± 7.4 ng/l Cd, 0.21 ± 0.07 µg/l Cu, 0.21 ± 0.13 µg/l Mn and 0.25 ± 0.09 µg/l indicate that a "metal problem" does not exist in the open Mediterranean. [] Size: 9 datasets https://doi.org/10.1594/PANGAEA.604843 – Score: 77.97 Polik, CA; Elling, FJ; Pearson, A (2018): Impacts of paleoecology on the TEX86 seas surface temper proxy in the Pliocene-Pleistocene Mediterranean Sea Abstract: The TEX86 proxy, based on the distribution of isoprenoid glycerol dialkyl glycerol tetraethers (iGDGTs) from 	Fri 1982 d for isigher water. Sea mg and e dose d idvidual the transmission of the sea of th
Action Plan	Õ	INFO/RAC National Focal Point
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Kremling, Klaus; Petersen, Hauke (1981): Hydrography and water chemistry of the open

and iron in waters of the open Mediterranean Sea. Meteor Forschungsergebnisse, Deutsche Forschungsgemeinschaft, Reihe A/B Allgemeines, Physik und Chemie des Meeres, Gebrüder Bornträger,

Supplement to: Kremling, K; Petersen, H (1981): The distribution of zinc, cadmium, copper, manganese

As we can see, there's data distributed almost all across Med Sea



PANGAEA. Data Publisher for Earth & Environmental Science

Mediterranean Sea [dataset publication series]. PANGAEA,

Always quote citation above when using data! You can download the citation in several formats below.

https://doi.org/10.1594/PANGAEA.604843,

Published: 1981 (exact date unknown) · DOI registered: 2007-04-13

Berlin, Stuttgart, A/B23, 5-14

RIS Citation BraTeX Citation & Conv Citation

exist in the open Mediterranean.

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Leaflet | Base layer © GEBCO, GLIMS, GIMP, SCAR, AW

Abstract: On a cruise from the eastern into western Mediterranean Sea in November/December 1978 a total of 126 samples were collected from 8 vertical profiles and 7 coastal stations for trace metal analysis. The sampling, processing and analysis was performed under strict "clean room" conditions. The concentration of the open-sea samples are close to oceanic results gathered under similar conditions. The grand averages from all profiles (± st. dev. of the individual samples) of 0.40 ± 0.16 µg/l Zn, 17.4 ± 7.4 ng/l Cd, 0.21 ± 0.07 µg/l Cu, 0.21 ± 0.13 µg/l Mn and 0.25 ± 0.09 µg/l Fe indicate that a "metal problem" does not

🛃 👁 46 🛓 4

A biologically mediated deplition in surface waters or correlation with nutrients have not been observed under the conditions established on this cruise. This is probably due top low primary production and seasonal advection processes prevailing in this sea.

The data for manganese show generally higher values in the surface layer (0-75 m) than in deep waters. This could evidently proved in the nearshore profile indicating a terrigenous source for manganese.

Institute for Geosciences, Christian Albrechts University, Kiel (GIK/IfG) Q Project(s):

Coverage Median Latitude: 36.250291 * Median Longitude: 18.271624 * South-bound Latitude: 31.025000 * West-bound Longitude: 4.576667 * North-bound Latitude: 41.395000 * East-bound Longitude: 32.163333 Date/Time Start: 1978-11-13T00:00:00 * Date/Time End: 1978-11-13T00:00:00



Citation:





PANGAEA.

Data Publisher for Earth & Environmental Science

SEARCH SUBMIT HELP ABOUT CONTACT

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Kremling, Klaus; Petersen, Hauke (1981): Hydrography and water chemistry of the open Mediterranean Sea [dataset publication series]. PANGAEA, https://doi.org/10.1594/PANGAEA.604843.

Supplement to: Kremling, K; Petersen, H (1981): The distribution of zinc, cadmium, copper, manganese and iron in waters of the open Mediterranean Sea. Meteor Forschungsergebnisse, Deutsche Forschungsgemeinschaft, Reihe A/B Allgemeines, Physik und Chemie des Meeres, Gebrüder Bornträger, Berlin, Stuttgart, A/B23, 5-14

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Published: 1981 (exact date unknown) • DOI registered: 2007-04-13

RIS Citation BIBTEX Citation 🗳 Copy Citation C Share 🛃 👁 46 🛓 4



Abstract On a cruise from the eastern into western Mediterranean Sea in November/December 1978 a total of 126 samples were collected from 8 vertical profiles and 7 coastal stations for trace metal analysis. The sampling, processing and analysis was performed under strict "clean room" conditions. The concentration of the open-sea samples are close to oceanic results gathered under similar conditions. The grand averages from all profiles (± st. dev. of the individual samples) of 0.40 ± 0.16 ug/l Zn. 17.4 ± 7.4 ng/l Cd. 0.21 ± 0.07 ug/l Cu. 0.21 ± 0.13 ug/l Mn and 0.25 ± 0.09 ug/l Fe indicate that a "metal problem" does not exist in the open Mediterranean

A biologically mediated deplition in surface waters or correlation with nutrients have not been observed under the conditions established on this cruise. This is probably due top low primary production and seasonal advection processes prevailing in this sea.

The data for manganese show generally higher values in the surface layer (0-75 m) than in deep waters. This could evidently proved in the nearshore profile indicating a terrigenous source for manganese.

Institute for Geosciences, Christian Albrechts University, Kiel (GIK/IfG) Q Project(s):

Coverage Median Latitude: 36.250291 * Median Longitude: 18.271624 * South-bound Latitude: 31.025000 * West-bound Longitude: 4.576667 * North-bound Latitude: 41.395000 * East-bound Longitude: 32.163333 Date/Time Start: 1978-11-13T00:00:00 * Date/Time End: 1978-11-13T00:00:00





Pangea, specifically, is a really good portal to search data since data shared here is made available after FAIR data management and Open Science principles.

E.g. we have:

- The **citation**: including Author, Title, reference publication(s), and the DOI
- An **abstract** of data
- Eventual connected **projects**
- Spatial coverage
- Information on license
- The **data download** section

INFO/RAC

- **National Focal Points Meeting**
- Palermo, Italy 20-21 May 2025

Check after UNEP-MAP Data Policy

Our interest in this case is in the «reuse» of data, which is stated in the license.

Let's go verify if it's possible to reuse them and if license is compatible with UNEP-MAP data policy...



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- It's the same license identified as the preferred from our data policy
- It allows us to take the dataset and reuse it as we want (resample, add, remove parts, share in different contexts) upon citation of the original source - > using the same citation we found at the top of the page:



Kremling, Klaus; Petersen, Hauke (1981): Hydrography and water chemistry of the open Mediterranean Sea [dataset publication series]. *PANGAEA*,
 https://doi.org/10.1594/PANGAEA.604843,

Supplement to: Kremling, K; Petersen, H (1981): The distribution of zinc, cadmium, copper, manganese and iron in waters of the open Mediterranean Sea. *Meteor Forschungsergebnisse, Deutsche Forschungsgemeinschaft, Reihe A/B Allgemeines, Physik und Chemie des Meeres, Gebrüder Bornträger, Berlin, Stuttgart*, **A/B23**, 5-14

Downloading the dataset, we have to make sure we can integrate it into our systems

Kremling_hydrography



There's a folder «dataset» and a file summary – let's open this first!



datasets summary.txt

There's a quite complete and machine-actionable summary describing in detail all the characteristics of the datasets both for formal and thematic part, also URIs* of insturments used are given!

*URI: Uniform Resource Identifier



* DATA DESCRIPTION:

summary.txt

Citation: Kremling, Klaus; Petersen, Hauke (1981): Hydrography and water chemistry of the open Mediterranean Sea [dataset publication series]. PANGAEA, https://doi.org/10.1594/PANGAEA.604843, Supplement to: Kremling, K; Petersen, H (1981): The distribution of zinc, cadmium, copper, manganese and iron in waters of the open Mediterranean Sea. Meteor Forschungsergebnisse, Deutsche Forschungsgemeinschaft, Reihe A/B Allgemeines, Physik und Chemie des Meeres, Gebrüder Bornträger, Berlin, Stutgart, A/B23, 5–14 Abstract: On a cruise from the eastern into western Mediterranean Sea in November/December 1978 a total of 126 samples were collected from 8 vertical profiles and 7 coastal stations for trace metal analysis. The

Abstract: Un a cruse from the eastern into western mediterranean sea in November/December 1978 a total of 120 samples were collected from a Vertical profiles and / costal stations for trace metal analysis. The spend averages from all profiles (± st. dev. of the individual samples) of 0.40 ± 0.16 µg/l Zn, 17.4 ± 7.4 ng/l Cd, 0.21 ± 0.07 µg/l Cu, 0.21 ± 0.13 µg/l Mn and 0.25 ± 0.09 µg/l Fe indicate that a "metal problem" does not exist in the open feature and (statistical cost is a statistical cost is a statistical cost is a statistical profiles (± st. dev. of the individual samples) of 0.40 ± 0.16 µg/l Zn, 17.4 ± 7.4 ng/l Cd, 0.21 ± 0.07 µg/l Cu, 0.21 ± 0.13 µg/l Mn and 0.25 ± 0.09 µg/l Fe indicate that a "metal problem" does not exist in the open feature and (statistical cost is a statistical cost is a statist cost is a statistical cost is a stat

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The data for manganese show generally higher values in the surface layer (0-75 m) than in deep waters. This could evidently proved in the nearshore profile indicating a <u>terrigenous</u> source for manganese. Project(s): Institute for Geosciences, Christian Albrechts University, Kiel (GIK/IFG) (URI: https://www.ifg.uni-kiel.de/)

Coverage: MEDIAN LATITUDE: 36.250291 * MEDIAN LONGITUDE: 18.271624 * SOUTH-BOUND LATITUDE: 31.025000 * WEST-BOUND LONGITUDE: 4.576667 * NORTH-BOUND LATITUDE: 41.395000 * EAST-BOUND LONGITUDE: 32.163333 DATE/TIME START: 1978-11-13T00:00:00 * DATE/TIME END: 1978-11-13T00:00:00

Event(s): M50_390 * LATITUDE: 31.905000 * LONGITUDE: 31.325000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https:// de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

M50_395 * LATITUDE: 31.913333 * LONGITUDE: 32.163333 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff, 1964)) * METHOD/DEVICE: Water sample (WS)

M50_407 * LATITUDE: 31.746667 * LONGITUDE: 30.150000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

M50_409 * LATITUDE: 31.333333 * LONGITUDE: 29.845000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

M50_415 * LATITUDE: 31.025000 * LONGITUDE: 28.926667 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https:// de.wikipedia.org/wiki/Meteor_(Schiff, 1964)) * METHOD/DEVICE: Water sample (WS) M50_421 * LATITUDE: 31.295000 * LONGITUDE: 28.075000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://

M50_421 * LATITUDE: 31.295000 * LONGITUDE: 28.075000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https:// de.wikipedia.org/wiki/Meteor_[Schiff, 1964)) * METHOD/DEVICE: Water sample (WS) M50 424 * LATITUDE: 31.37333 * LONGITUDE: 27.40000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://

M50_424 * LATITUDE: 31.373333 * LONGITUDE: 27.740000 * DATE/TIME: 1978-11-13T00:00:00 * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https:// de.wikipedia.org/wiki/Meteor (Schiff_1964)) * METHOD/DEVICE: Water sample (WS) M50 428 * LATITUDE: 32.45000 * LONGITUDE: 26.61666 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -3125.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964)

M50_428 * LATITUDE: 32.245000 * LONGITUDE: 26.616667 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -3125.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

M50_430 * LATITUDE: 34.161667 * LONGITUDE: 25.000000 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -3035.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_[Schiff, 1964)) * METHOD/DEVICE: Water sample (WS)

M50_432 * LATITUDE: 30.986667 * LONGITUDE: 19.611667 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -3480.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

M50_436 & LATITUDE: 41.395000 & LONGITUDE: 18.001667 * DATE/TIME: 1978-11-13700:00 * ELEVATION: -1137.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS) M50_437 * LATITUDE: 36.000000 * LONGITUDE: 16.55333 * DATE/TIME: 1978-11-13700:00:00 * ELEVATION: -3473.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964)

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mod_440 & LATITUDE: 30.655553 * LUMAITUDE: 12.51160 / # UATE/IME: 1978-11-13100:00 # ELEVATION: -1296.0 m * LUCATION: Mediterranean Sea * CAMPAIGN: Mod (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS) MS0_450 * LATITUDE: 39.346667 * LONGITUDE: 11.655000 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -3220.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964)

(URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS) M59_453 * LATITUDE: 37.916667 * LONGTIVDE: 4.576667 * DATE/TIME: 1978-11-13T00:00:00 * ELEVATION: -2790.0 m * LOCATION: Mediterranean Sea * CAMPAIGN: M50 (URI: hdl:10013/epic.28122.d001) * BASIS: Meteor (1964) (URI: https://de.wikipedia.org/wiki/Meteor_(Schiff,_1964)) * METHOD/DEVICE: Water sample (WS)

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Size: 9 datasets

/* TABULAR SUMMARY OF DATASETS LISTED IN THIS COLLECTION: */

/* Nobusk SuperAn of DATASCALT in Nuls Collection. */
Filename Citation of child dataset
M50_424_trace_metal.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_428 (Table 1). https://doi.org/10.1594/PANGAEA.602508
M50_430_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_428 (Table 1). https://doi.org/10.1594/PANGAEA.602508
M50_430_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_430 (Table 1). https://doi.org/10.1594/PANGAEA.602508
M50_436_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_431 (Table 1). https://doi.org/10.1594/PANGAEA.602508
M50_436_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_436 (Table 1). https://doi.org/10.1594/PANGAEA.602510
M50_437_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_437 (Table 1). https://doi.org/10.1594/PANGAEA.602511
M50_437_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_440 (Table 1). https://doi.org/10.1594/PANGAEA.602515
M50_450_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_440 (Table 1). https://doi.org/10.1594/PANGAEA.602515
M50_450_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and chemical hydrography measured on Mediterranean water samples at station M50_440 (Table 1). https://doi.org/10.1594/PANGAEA.602515
M50_450_hydrography.tab Kremling, Klaus; Petersen, Hauke (1981): Physical and ch

Opening the datasets we find that the dataset is composed by a set of .tab files, which is not among the file formats accepted by the KMaP.

+ Select files	The .tab format is essentially a tabular file delimited by <tab>, so it could be reduced to a .csv file by simply substituting the <tab> character with a comma (and saving it accordingly).</tab></tab>
Supported file extensions: ESRI Shapefile, CSV, GeoPackage, GeoJSON, KML/KMZ, GeoTIFF, Zip Archive, XML Metadata File, Styled Layer Descriptor (SLD)	Opening the trace metal file with a text editor we will notice a long header.
Upload	<pre>M00 424 trage metalab x /* 0MA CAST trage metalab x /* 0MA CASTORFTINE: /* 0MA C</pre>

Given that data is contained in the tabular lines at the end of the header (delimited by characters /* and */), we remove the header, then substitute all the tabs with a comma. Also name of the fields could generate problems, so we leave only names, without spaces or other characters (such as [] or /) and save the file as .csv.

M50_424_trace_metal_3.csv ×

1 Event,Latitude,Longitude,Depth,Cd,Zn,Cu,Fe,Mn
2 M50_390,31.9050,31.3250,20,0.191,3.365,3.462,5.909,22.207
3 M50_395,31.9133,32.1633,20,0.239,5.659,3.305,3.223,14.198
4 M50_407,31.7467,30.1500,20,0.200,3.671,5.193,6.267,15.836
5 M50_409,31.3333,29.8450,20,0.127,3.671,5.665,7.879,8.737
6 M50_415,31.0250,28.9267,20,0.294,15.448,3.462,6.088,12.014
7 M50_421,31.2950,28.0750,20,0.112,3.212,4.406,14.862,12.560
8 M50_424,31.3733,27.7400,20,,6.118,5.665,7.879,13.652



Since the exercise will involve stylization, we have to make sure each field is recognised for its format (numbers or strings). We shortly open the file in QGIS to impose the format of each field.

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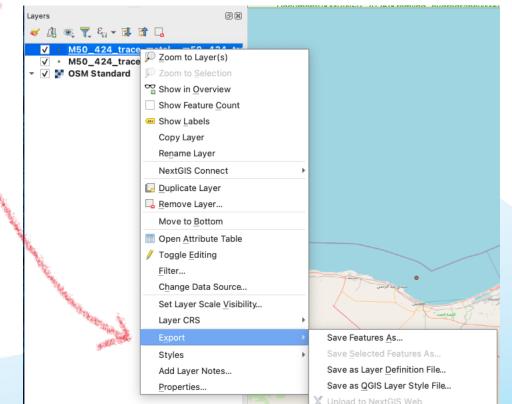
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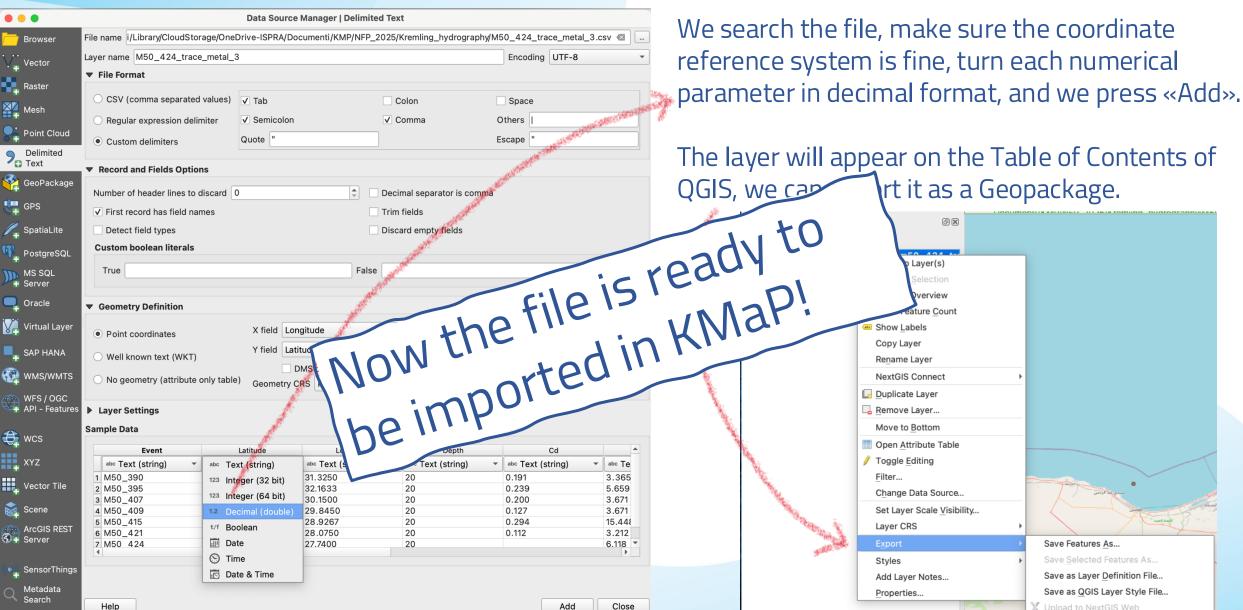
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We search the file, make sure the coordinate reference system is fine, turn each numerical parameter in decimal format, and we press «Add».

The layer will appear on the Table of Contents of QGIS, we can export it as a Geopackage.





By clicking on the sign-in button, in the homepage, you will be redirected to login form. Enter your credentials as sent by mail



Log in to an existing account

If you have not created an account yet, then please sign up first.	
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Once logged in the button changes shape, let's click on it and choose «Catalogue». This is the section reserved for **editing**.



KMAP is conceived as a unique access hub to e UNEP-MAP (Mediterranean Action Plan) knowledge heritage. It is composed by a Data Hub, accessible through the "Maps" button, collecting geographical data in broader sense. The Knowledge Hub, accessible through "Library" button, collecting all the UNEP-MAP documental heritage, and an Exchange Hub aimed to enforce the cooperation with UNEP-MAP contributors, stakeholders, citizens, and communities of interests. At present, two sections are completed: the Data Hub and the Knowledge Hub, while the Exchange Hub is in preparation. Users with major rights granted can not only view but also create contents and manage rights on their own material, creating a proper "personal use" space inside the platform. Come and discover with us the Knowledge MAP!



DATASET THEMES

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https://kmap.info-rac.org/catalogue/

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: Meeting

In the catalogue, let's click on «Add Resource» and choose «Upload dataset» to enter the upload interface

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Filter 16,718 Resources found	Add Resource III Order by
 MEDQSR - Mediterranean Quality Status Assessments Report MEDQSR - Mediterranean Quality Status Assessments Report amin admin Marine Litter Dashboard The last Mediterranean Quality Status Report (2023) has a section regarding the Marine litter and ancillary data, used to achieve results explained in the report, are stored in the KMaP. A sample harmonization and collation work performed from the UNEP-MAP Regional Activity Centers is reported here. Also, connection exists with the GPML. Immonization and collation work performed from the UNEP-MAP Regional Activity Centers is reported here. Also, connection exists with the GPML. Immonization and collation work performed from the UNEP-MAP Regional Activity Centers is reported here. Also, connection exists with the GPML. Immonization and collation work performed from the UNEP-MAP Regional Activity Centers is reported here. Also, connection exists with the GPML. 	Upload dataset Upload document Create dataset Create map Create geostory Create dashboard Remote services
Beaches and Seafloor marine litter from last MED-QSR (2023) Collation of beaches and seafloor marine litter ancullary data, for the purposes of 2023 edition of the Mediterranean Quality Status Report INFORAC Editor	View

In the catalogue, let's click on «Add Resource» and choose «Upload dataset» to enter the upload interface





Select files...



Upload a dataset

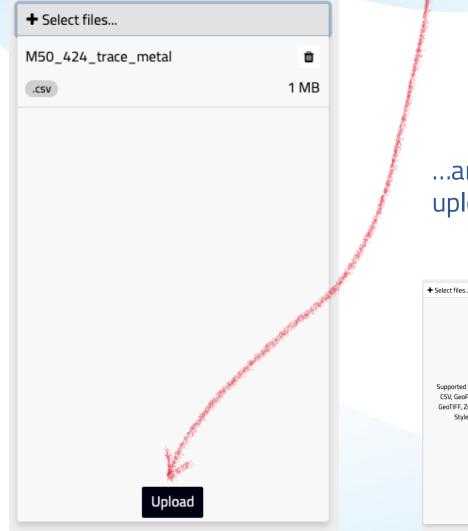
Drag and drop a file to upload

Through the **«+** Select files**»** button let's select the .gpkg file

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Filter pending uploads by name... M50_424_trace_metal.csv May 16th 2025, 6:17:28 pm

The file is selected. By clicking on upload the uploading process starts...

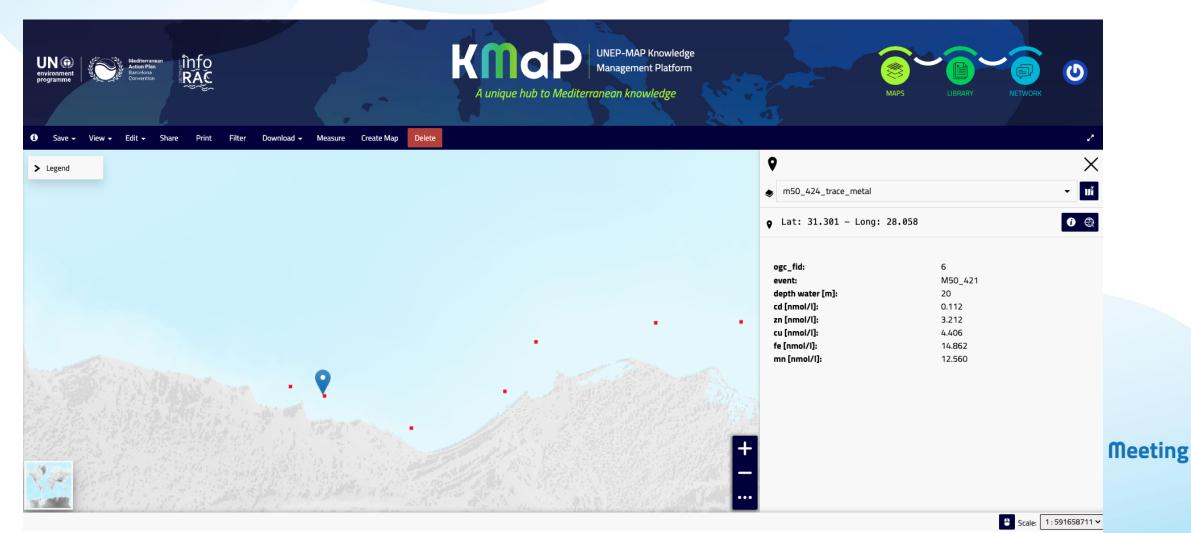


...and it ends when the file name is evidenced in blue (while uploading is black). Now we can view the result:

supported file extensions: ESRI Shapefile,
CSV, GeoPackage, GeoJSON, KML/KMZ,
GeoTIFF, Zip Archive, XML Metadata File,
Styled Layer Descriptor (SLD)

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Real Property in the	View

The map is visualized with a very basic symbology. We can query the points and see that all the fileds have been automatically recognised.



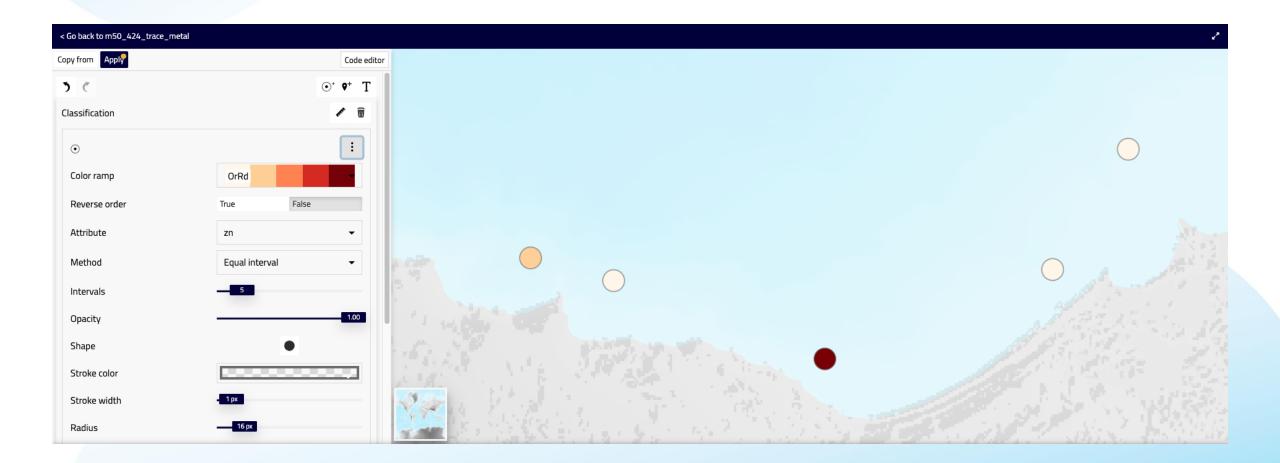
Now we can stilyse the map by clicking on Edit > Style

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Fill color		
Stroke color		
Stroke width	- 1 px	All and the second s
Radius	З рх	
Rotation	0°	The Style editing could be done visually from screen (as in this case) or by code (useful when we create a style e.g. in a desktop GIS, and we can export it as a .sld – Styled Layer Descriptor – standard file)

Now we can stilyse the map by clicking on Edit > Style



For this map we stylise the points growing the symbol and colouring it in reason of «zn» values. So we choose «Classification style», select the attribute «zn» and we observe the result. If the style is satisfying we press «Apply».



Metadata filling

Once we stilysed our dataset we should complete the Metadata. So let's go to «Edit > Metadata». Mandatory metadata are highlighted in red. Let's fill them together.

∕ Edit	Preview	Settings											Advanc	ed Metadata
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l store	. //			reports to offshore	race i Egyp	vas collated in th metal in some sa t. The dataset wa the following <u>link</u>	mpling poir as retrieved	nts		* Field declared Mandator Group	ry by the Metadata S	chema		Ŧ
	Edit									Free-text Keywords	s Ø			
										UNEP-MAP themes	5:			
										× Pollution				×

Some hints:

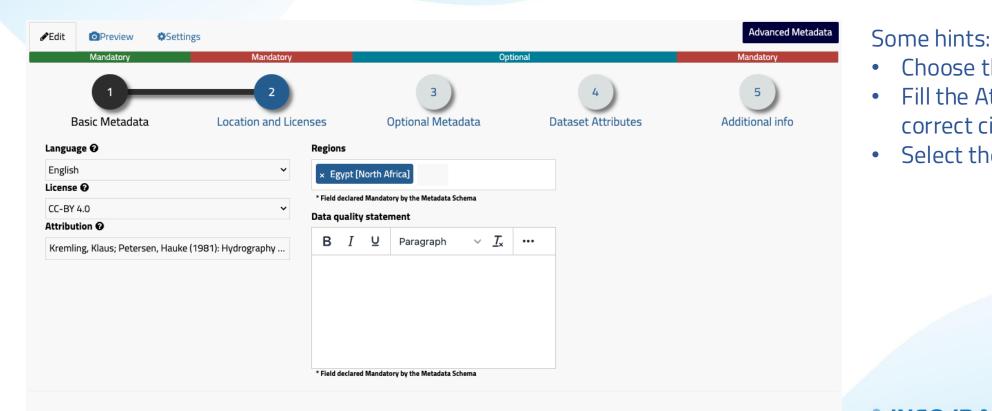
- Choose a meaningful title
- Write a brief description (including topic, type of data and origin of the dataset)
- Choose an INSPIRE category
- Choose a UNEP-MAP theme

Return to Dataset Update Next >>



Metadata filling

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Choose the right license

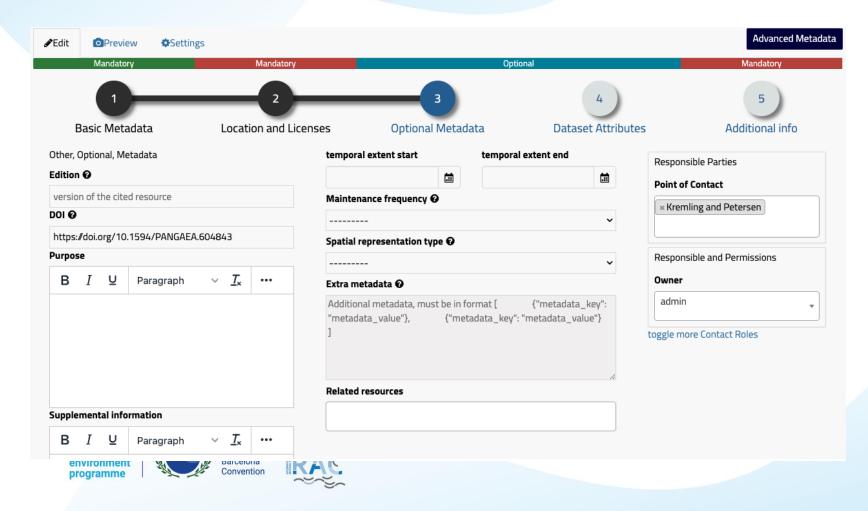
correct citation

Fill the Attribution filed with the

Select the geographical region

Metadata filling

Once we stilysed our dataset we should complete the Metadata. So let's go to «Edit > Metadata». Mandatory matadata are highlighted in red. Let's fill them together.



Some hints:

- We fill up the DOI of the publication
- We add the authors as Point of Contact
- We leave our user as responsible for the publication inside the KMaP (in my case «admin»)
- We press «Update»

Now metadata are complete.

Setting permissions on the dataset

View

Download

Permissions

Once the dataset is ready to be shared, we can set permissions on it. Going into Share folder we can set specific rules on what Anyone or registered members or a specific User or Group of users can or cannot do with the new dataset.

Share with people and groups	×	(
This Page https://kmap.info-rac.org/catalogue/#/dataset/20126 Embed This Dataset https://kmap.info-rac.org/datasets/geonode:m50_424_trace_metal/embed		අ අ
Pagistarad members	None	

The default is «Anyone can Download», and it's fine since also the original dataset is freely available upon attribution. The registered members have slightly more possibilities (Edit and Manage).

From here we can also decide how to use our data. By copying and pasting the link pointing to «Embed this dataset» we can embed the map into a website!

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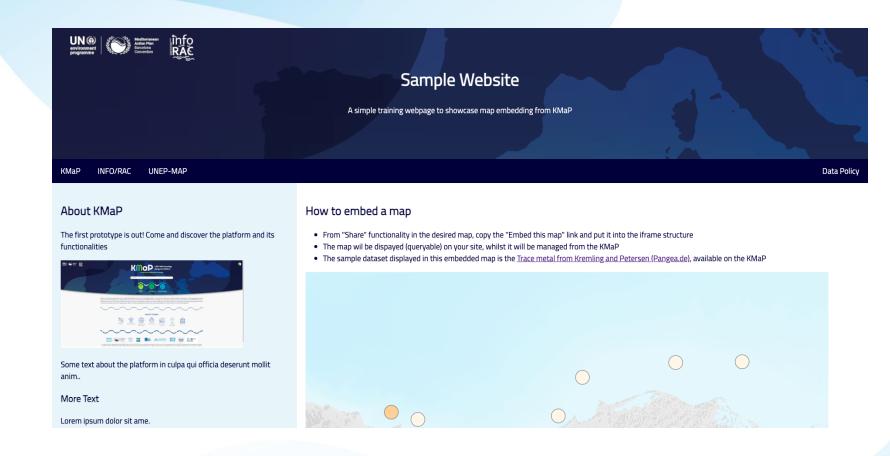


+ Add Users / Groups

Name 木

Filter by name or permissions

Use the dataset





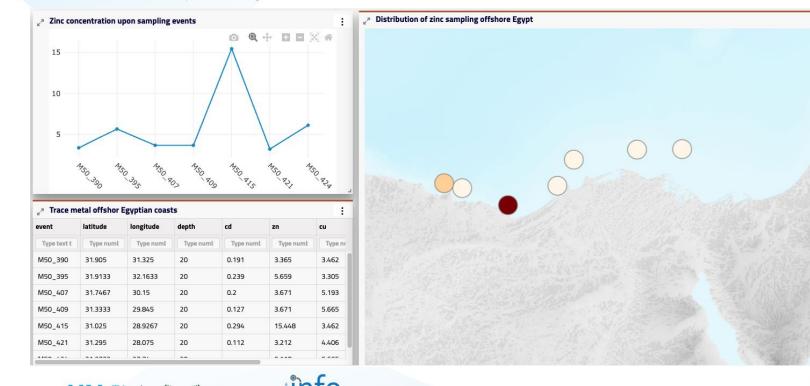
An example of use is reported here: <u>https://info-</u> <u>rac.github.io/test_website/</u>

The dataset is queryable on the website, but it's still managed by KMaP.

Use the dataset

Mediterranean

Another use of the dataset could be to create a dashboard starting from the dataset. We can add a **line graph** of Zinc concentration upon events, we can add a **table** with all the dataset's information , we can add a **map** of the dataset we've just imported.



Data in the widgets could be configured to be **responsive** with respect to the zoom level of the map. Also the Dashboard could be **embedded** in a website, using the same «Share» functionalities.

Thank you for the attention!

annalisa.minelli@info-rac.org





