



Coastal education & information dissemination as part of ICZM

**S. Maack^{2) 1)}, G. Schernewski¹⁾,
P. Bedall ²⁾, S. Bock^{1) 2)}, K. Licht²⁾ , m1
N. Löser²⁾, R. Thamm²⁾ & A. Vorlauf²⁾**

1) Baltic Sea Research Institute Warnemünde

2) EUCC – The Coastal Union Germany



ICZM Education: Why & what?

“Education is critical for promoting sustainable development and improving the capacity of the people to address environment and development issues.”

(Agenda 21, chapter 36)

Objectives of ICZM-Oder:

- integrate the analysis of the causes of major environment and development issues **in a local context**
  - draw on the **best available scientific evidence** and other appropriate sources of knowledge
  - give special emphasis to the **training of decision makers**
- ➔ Principles of education for sustainable development in the coastal area (ESD)



ICZM education: Whom to address?

Target groups for ICZM & project-related activities

➤ **Established professionals:**

Online study platform

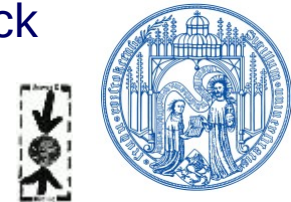


➤ **Young professionals:**

Summer school
IOW/GKSS/AWI

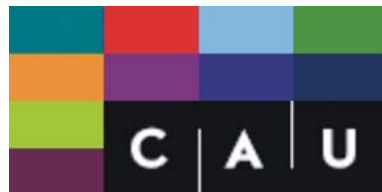


Postgraduate professional training
University of Rostock



➤ **Professionals to be:**

Students of Geography at
University of Kiel



Nature guide project



School project





ICZM education: How?

ICZM-Oder example: e-Learning tool *IKZM-D Lernen*



- promising as a new method in ESD
- easy to grasp (15 minutes introduction)
- easy to use (no programming)
- supports pictures, videos, audio, animations, text documents
- worldwide access (WWW)
- English/German
- free

ikzm-d Lernen - Mozilla Firefox

http://www.ikzm-d.de/main.php?page=144,3060

ikzm-d Lernen

Wer, Wie, Watt, Fische

Administration (Authors)

- Add a new Section
- Pool of Pictures
- Figures
- Additional information
- Control questions

Miscellaneous

- Normal view
- Change password
- Language: DE EN
- What is new?
- Logout

Fischerei im Watt

1. Einleitung
2. Wirtschaftliche Aspekte
  - 2.1. Miesmuschelfischerei
  - 2.2. Garnelenfischerei
3. Naturschutzaspekte
4. Quellen
5. Autoren & Projekt
6. Impressum & Kontakt

Help

Print preview

Fulltext-Search

Search

Edit this figure

Notice! Currently you can only edit the descriptive texts regarding the picture. The picture itself cannot be changed or edited. To achieve this, you have to upload the new picture and delete this item.

Edit this figure

Description of the figure

Source: Rainer Borchering

Short title: Baumkurve

Description:

Garnelenfang

Die Netze der Garnelenfischer sind "Baumkurven", die an beiden Enden gleiten und an der Oberkante von einem soliden Metallbalken (dem Baumkurven) gehalten werden. Sie haben an der Unterkante eine Kette mit Hartgummi- oder Plastikrollen, die über die Unebenheiten des Untergrundes hinweg rollen und daher nicht tief in den Boden eindringen. Die Rollenkette verursacht im Wasser jedoch eine Druckwelle, die die meist im Boden eingegrabenen Garnelen

Path:

Save Cancel

Delete this figure

Here you can delete the figure shown. Attention! Erasure is final! All graphic files and all comments regarding this figure will be deleted!

Attention! This picture is still in use in:

Module Wer, Wie, Watt: Fischerei im Watt in section 1.1. Was gibt es überhaupt zu fischen?

To delete this picture, you have to remove all these references before.

Fertig

0 errors / 14 warnings

Notizbuch öffnen



ICZM education for practitioners



- Free online study modules
- ICZM-Oder goals:
  - provide background knowledge
  - transfer scientific results

Topics:

Introduction

Coastal tourism

Eutrophication

Agenda 21

Water Framework

Directive

Natura 2000

Project

Management

ICZM Tools

The screenshot shows the 'ikzm-d Lernen' website in a Mozilla Firefox browser window. The left sidebar contains a navigation menu with 'Eutrophication' highlighted. The main content area is titled 'Oder steuert das Haff' and contains text about nutrient input from the Oder river into the Haff. Below the text are four maps showing the spatial distribution of nitrate concentrations in the Haff for April, June, August, and October. A color scale on the right indicates concentration levels from 0 to 220 µmol/l. The text explains that concentrations are highest in the eastern part of the Haff, near the river mouth, and decrease towards the Baltic Sea.

Experience:

- practitioners need to be addressed more directly
- passive e-learning (self studies online) is not successful



ICZM education for professionals to be

Side project *Wer Wie Watt?* with young nature guides



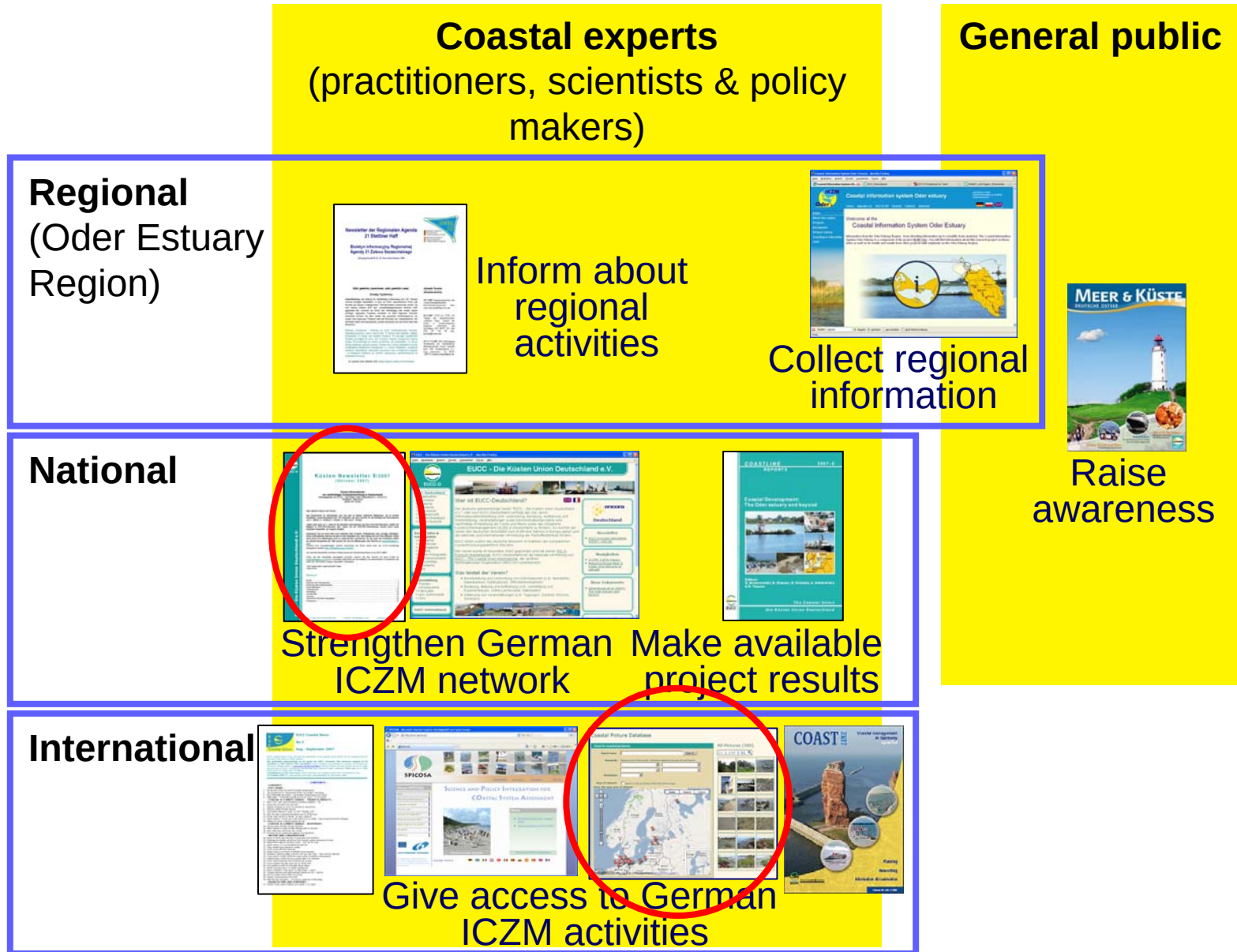
Experience:

- adapt existing programmes rather than establishing new ones
- combine e-learning with face-to-face training using different teaching methods (presentations, role plays, ...)
- apply e-learning actively (use for learning by doing)
- e-learning tool IKZM-D-Lernen works for different learner levels
- but: PC availability hampers such applications in ESD institutions





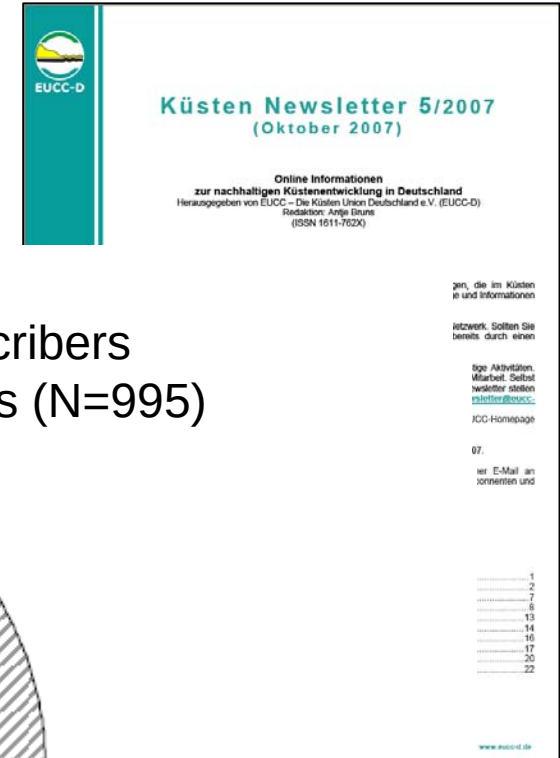
Information dissemination: How to address whom?



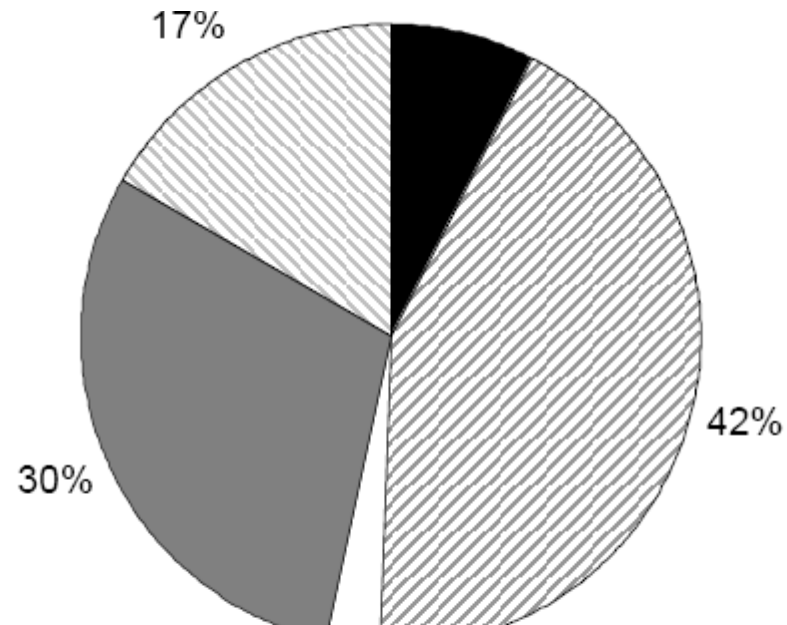


Information dissemination: Whom do we reach nationally?

Example: German Coastal Newsletter



Spatial levels of
professional newsletter subscribers
based on e-mail address analysis (N=995)



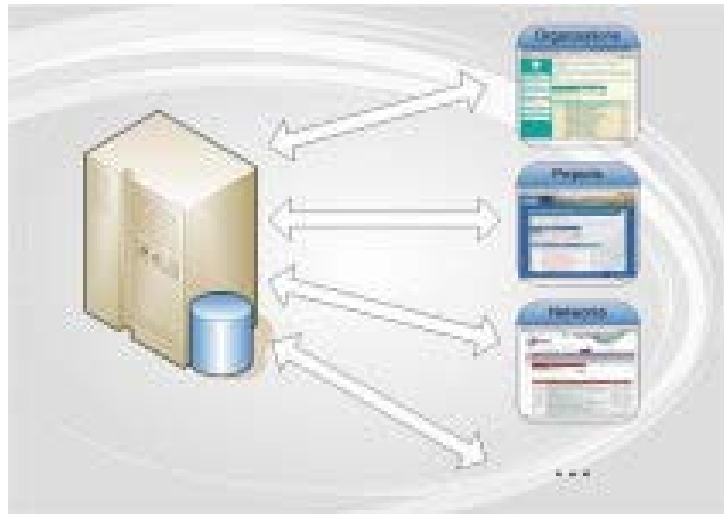
Experience:

- use & develop existing networks to distribute own information
- combine own information with other relevant information to make product more attractive



Information Dissemination: Whom do we reach internationally?

Example: coastal data bases



Current partners

- SPICOSA
- Coastal Guide
- EUCC-International
- D: Partner project Coastal Futures
- D: Coastal metadata system NOKIS
- Baltic Lagoon Network ...

Coastal Picture Database

Search coastal pictures

Search term: Search

Keywords: Select up to 4 keywords, that the needed pictures should match.

Resolution:

Area of interest: ☐ Search only pictures within the shown area
 Zoom into your area of interest.

All Pictures (589)

1/33

Coastal and Marine Meetings and Conferences

The database contains world-wide coastal (and marine) meetings, conferences and workshops. All events have applied or management aspects. To search in the database you can enter a term into the search field or sort the content by clicking on table titles (date, name or country etc.). Many users ensure the success of the databases. Therefore, we like to ask you to enter information about your events to the databases as well.

Search Coastal and Marine Meetings and Conferences

Search term: Search

☐ Include elapsed Events

Date from: until:

Last Update since:
 (Only entries added or modified since this date will be shown.)

Select a Quarter: [03/2007] [04/2007] [01/2008] [02/2008] [03/2008] [04/2008]

Date	Event	Deadline	Country
14/09/07 - 22/09/07	ICSA 42 Symposium		RUSSIAN FEDERATION
19/09/07 - 23/09/07	20th IAHQ International Symposium on River, Coastal and Estuarine Morphodynamics	30/05/07	NETHERLANDS
17/09/07 - 20/09/07	14th Australasian Coastal Conference 2007	03/09/07	AUSTRALIA
19/09/07 - 21/09/07	Continental Marine Open Science Conference	15/05/07	CHINA
17/09/07 - 18/09/07	EURLIST Workshop		ESTONIA
18/09/07 - 20/09/07	20th INTERNATIONAL SYMPOSIUM ON FOSSIL ALGAE	31/05/07	CROATIA
19/09/07 - 21/09/07	11th North Atlantic Fisheries History Conference	15/03/07	NORWAY
24/09/07 - 25/09/07	INTERREG IIIA Conference "United by Borders"		LATVIA
25/09/07 - 28/09/07	20th International Conference on Nearshore and Estuarine Cohesive Sediment Transport Processes, INTERCOH 07	25/03/07	FRANCE
30/09/07 - 28/09/07	European Symposium on Marine Protected Areas as a Tool for Fisheries Management and Ecosystem Conservation	20/03/07	SPAIN

Rows per Page: 10

Click here to export these entries.



Information Dissemination: Whom do we reach internationally?

Example: coastal data bases application

EUCC - The Coastal Union Baltic - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe



EUCC - The Coastal Union Baltic

Contacts

EUCC Branches
Baltic States
EUCC Russia
EUCC Finland
EUCC Germany
EUCC Poland

Regional ICZM
Overview
National Strategies
European
ICZM-Evaluation

Baltic Databases
Projects & Case Studies
Meetings & Conferences
Training & Education
Pictures
Documents
Experts
Links

ICZM Learning
CoastLearn
Compas
IKZM-D Lernen

Welcome to "EUCC- The Coastal Union Baltic". This website links the Baltic Region national branches of "EUCC The Coastal Union", an international non-governmental organisation. Our aim is to promote the sustainable development of the Baltic Coast and Integrated Coastal Zone Management (ICZM). Find a guide about [Baltic ICZM](#) here.



EUCC national branches

- [Baltic States](#)
- [Russia](#)
- [Finland](#)
- [Germany](#)
- [Poland](#)

Join us!

- **Baltic States Office**
- **Contact Points**
- **National Branches**

Baltic NGO's

INTERREG Projects
[ASTRA](#)
[BALTCOAST](#)
[COASTMAN](#)
[COASTSUST](#)
[COPRANET](#)
[PLANCOAST](#)

Other Projects
[ENCORA](#)
[SPICOSA](#)

Baltic Sea Region ICZM Platform

Baltic Sea Organisations and Networks
[HELCOM](#)
[Baltic 21](#)

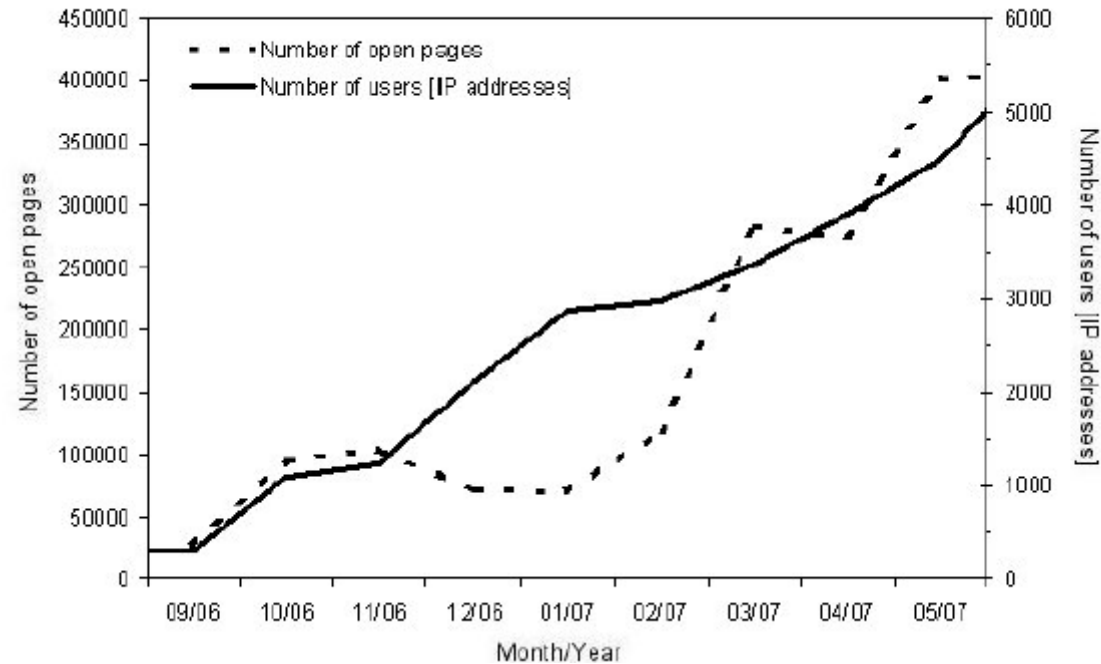
Other Networks
[BEIDS](#)
[BALLOON](#)

Meetings & Conferences	Case Studies	Projects	Training & Education
04 December 2007: Tag der Geodateninfrastruktur Schleswig-Holstein (GERMANY)	GOAP: Greifswalder Bodden and Oder estuary - exchange processes SPICOSA: Gulf of Riga SPICOSA: Norway south East-	GOAP: Greifswalder Bodden and Oder estuary - exchange processes OderRegio: OderRegio ICZM-Oder: Integrated Coastal	Long-distance course Integrated Coastal Zone Management (GERMANY) annual The PhD programme of the



Information Dissemination: Whom do we reach internationally?

Number of users of project data base per month



Experience:

- combined efforts reduce redundancy
- data bases make project websites more attractive



Information dissemination: How to reach further target groups?

Further dissemination products of ICZM-Oder

- **Scientists:**
IKZM-Oder reports, summaries published in Coastline Reports (free download)
- **International ICZM expert community:**
Magazine about German ICZM (in English, 1000 copies distributed in EU)



Experience:

- awareness raising needs spectacular events (jellyfish invasion, harmful algal bloom, whale stranded in Baltic) → problem: time
- project results should be at hand in suitable format to use public attention



Further information

Project ICZM-Oder: www.ikzm-oder.de

EUCC-The Coastal Union Germany: www.eucc-d.de

EUCC-The Coastal Union International: www.eucc.net

Baltic Sea Research Institute: www.io-warnemuende.de

