Providing information – enabling knowledge:

Helmholtz-Zentrum Geesthacht

Sustainable stakeholder dialogues in the Northern German Climate Office entre for Materials and Coastal Research

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Abstract

Although many aspects of coastal research are decision relevant, scientific results cannot be directly transferred into practice.

Thus, an additional dialogue infrastructure is needed to make coastal research useful:

The Northern German Climate Office:

1700 registered users – eight user groups → Figure 1

Dialogue process and communication formats → Figure 2 and 8

Various communication formats have been developed and tested:

- individual requests
- •interviews
- stakeholder workshops and expert interviews

→Information demands of different stakeholder groups have been identified (Fig. 2) to develop decision relevant information products which may serve a broader group with similar information (Fig 5-7).

Overarching demands for regional climate services are:

- 1.Trustworthiness
- 2.Comprehensibility
- 3.Relevance

Addressing stakeholder demands

1) Regional assessment reports as basis of trustworthiness

Scientific knowledge on coastal climate is widely scattered.

Scientific agreement / disagreement is not documented on regional scales

A systematic assessment process is needed to document consolidated scientific knowledge

Three regional assessment reports have been published, so far (\rightarrow Fig. 3):

- Metropolitan Region of Hamburg
- •Baltic Sea Basin (BACC I and II)
- •Another assessment report for the North See Region (NOSCCA) is in press (2016).

The reports have been adopted for political planning processes by the Hamburg senate and HELCOM.

2) Understandable summaries in national language ensure comprehensibility

Booklets, brochures & websites on regional climate change:

Main research results on regional climate change in Northern Germany and sub regions are summarized in understandable booklets, brochures and websites in national languages (Fig. 4). The scientific knowledge mainly comes from the regional assessment reports (1).

Regional climate scenarios in practice - understandable explanations on the methods Still, there are many stakeholders waiting for more precise "forecasts" of climate change, rather than learning to plan with uncertainties. In these brochures we focus these issues and give some good practice examples of using regional climate scenarios in practice.

3) Interactive web-tools on regional specific data analyses as basis for relevance

norddeutscher-klimamonitor.de norddeutscher-klimaatlas.de is an interactive web-tool on recent climate state, variability, changes and consistency with scenarios. Basis are observations are more than 120 regional and regional reanalyses of the last climate projections (SRES and 60 years.

is an interactive web-tool on possible future climate change in Northern Germany. Basis RCP).



Fig 6.: Screenshot www.norddeutscher-klimaatlas.de



kuestenschutzbedarf.de

is an interactive web tool on

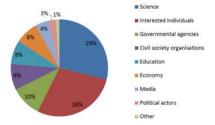
recent and possible future

coastal protection needs in

Northern Germany. Basis

possible future changes

are actual water levels and



man Climate Office N=1690 (18.08.2016)

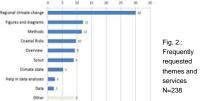
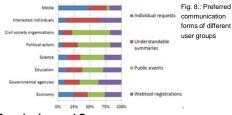




Fig 3: Regional assessment reports (www.klimabericht-hamburg.de)



Fig 4.: Understandable summaries



Conclusion and Summary

forms (Fig. 8: no "one fits for all"!).

- •Besides coastal & climate research a long term dialogue infrastructure is needed to make research usable in practice.
- •In a long term dialogue process (since 2006) user demands were localized and different communication forms were developed and tested.
- •All communication forms are requested & needed •Each user group prefers certain communication