

Historical Development Paths, Socio-Economic and Cultural Issues in Risk Approaches in Two Coastal Communities

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Content

- I. Framework of the Research
- II. 'Total Ecology' and risk approaches
- III. Influence of History on Risk Approaches: Contrasting Example from Two Coastal Communities



Framework of the Research

2008 German Strategy for Adaptation to Climate Change (DAS) adopted

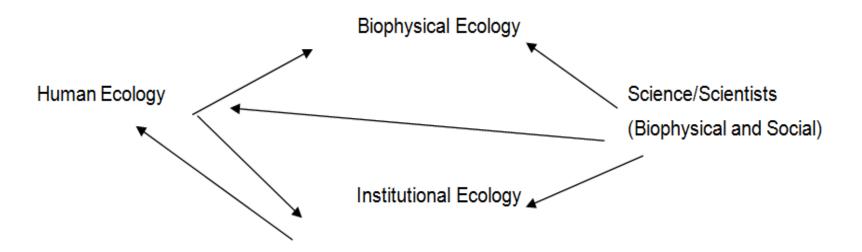
2011 Action Plan for Adaptation of the German Strategy for Adapting to Climate Change:

"Municipalities are among the central actors of adaptation to climate change. Many consequences of climate change manifest themselves locally, and many adaptation measures need to be developed and implemented together with local communities."



Risk approaches are about people & places and their history & culture

'Total Ecology':



Source: Mike Orbach, Duke University/ Nicholas School of the Environment (unpublished)







Study region: Two communities at the southern Baltic Sea Coast in Germany (distance 300 km)









BASE BOTTOM-UP CLIMATE ADAPTATION STRATEGIES TOWARDS A SUSTAINABLE EUROPE



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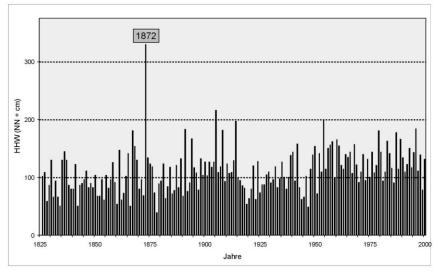
<u> Risk of flooding – historic records</u>

- -Storm surge levels (SSL) higher than 3,0 m
- above Mean Water = one event
- -SSL higher than 2,0 m above Mean Water = rare
- -SSL higher than 1,5 m above Mean Water = infrequent
- -Storm surge levels higher than 1,2 m above Mean Water = frequent

Comparable bio-physical conditions/ vulnerablity (3m above SL, identical exposure to storm surges/ SLR/ bathtube effect)

Similar SSL projections

Identical experiences with historic storm floods (1872): Equivalent reconstruction aid out of the funds of the German empire







Methods

- 17 Semi-standardised narrative interviews (2012/2013)
 average duration: 2- 3 hours) with residents (village
 chronicles, heads of regional and "Heimat" (homeland)
 associations, local decision-makers, entrepreneurs.
- Complemented by 30 interviews with passers-by (standardised questionnaire) at central locations in both communities.
- Background research: village chronicles, diaries, local novels/ photographies...







Development paths after the 1872 storm flood



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Explanation about the errection of a dyke in 1873 ("Der Wall") in the chronicle of Ummanz (Mecklenburg -Pommerania), Source: Mursewiek: 1947)







Further separations after WW II







Further separations after WW II

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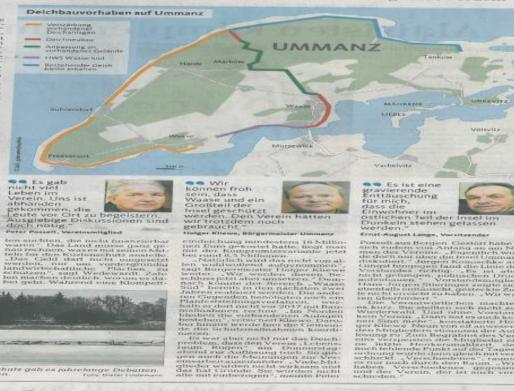
"Lebensraum Rügen" kapituliert: Verein scheitert an Deichproblem

Während sich die Mitglieder das Ziel gesetzt hatten, eine vollständige Eindeichung von Ummanz zu erreichen, soll jetzt eine Barriere quer durch die Insel gebaut werden.

Von Jons-17we Berndt und Irene Burow

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Schwachstellen bestemalis Leo Marchardt, Starticher Anders für Landwirtschaft und Lönwalt (Stailu), Eckhard Westewordt, islalt Klar, dass Ernst-August Lange und dessen Verein - nach Möglichkei-



Worden." Frut August Lange, Versitzender Possielt aus Berryen. Castdört habe er sich sichen von Anfang eine aus Na-diskutent." Järgen Konstender National aus Statentieten Berlichen diskutent." Järgen Konstender bei eine Statentieten Berlichen vorstanden eine Stieringer zugen eben das einstandt, geschern Druck haber onsert. Das Berlingen Stieringer zugen berliche einstandt, die Statentieten berliche einstandt, gescherte Berlichen eben das einstandt, gescherte Berlichen eben das einstandt, gescherte Berlichen vorstandes einstandt, gescherte Berlichen berliche einstandt, gescherte Berlichen vorstendes einstandt, gescherte Berlichen vorstendes einstandt, gescherte Berlichen vorstendes einstandt, gescherte Berlichen vorstendes einstandt, gescherte Berlichen vorstenden Berlichen Berlichen Berlichen vorstenden Berlichen Berlichen weiter berlichen Versteilte Berlichen B

SO GESEHEN Else Lasker-Schüler auf Arkona?

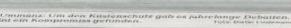
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Eber Lasker-Schuler (1860, 1945) sählt zu den bedeutendsten deut-schen Dichlerinnen, zesteine 283

Idylle vor Ummanz: Um den Küslenschutz gab es jahretange Debatten. Jetzt scheint ein Kompromiss gefunden.



Behörden greifen in Nachbarschaftsstreit ein

Segard - Nouo Erkennitnisse im Segarder Nachharschafts-Streit die OZ berichtetet Wie die unterse

ist Psychoterror", sagt Jokaterina

Gegen die Düsseldorfer Ferienhausbesitzer in Sagard gab es ein Verfahren, wie die Bauaufsicht des Landkreises mittellt. Marriel Woman of the Owner of the





Key messages

- Historical natural events, socio-economic developments and cultural values drive risk perception, response and preparedness to environmental challenges.
- Historical development paths lead to particular material and immaterial value sets which find expression in differing views of "Heimat" ("Homeland"). These lead to different demands placed e.g. on coastal protection and adaptation measures.
- Risk management strategies need to be anchored in development traditions. Reference is necessary to local interests, values and attitudes – in this case to the coast and sea.
- More empirical investigations on the history of human and institutional ecology/ understanding the underlying reasons why communities or regions are vulnerable and why they act they way they do are needed in the policy arena.