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Coastal community resilience in climate adaptation and risk reduction

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Title:	Coastal community res	ilience in climate adaptation and risk reduction
Keywords:	community resilience, coastal flood	ds, storm surges, emergency response, impact mitigation
Abstract:	Coastal community resilience in climate adaptation and risk reduction community resilience, coastal floods, storm surges, emergency response, impact mitigation Storm surge impacts on the Limfjord coasts of Denmark are exacerbated by the expansion of the Thyborøn Channel that causes increased water transport into the fjord from the North Sea. This, in combination with sea level rise, jeopardizes the strength of existing flood protection and challenges the local municipalities to implement additional measures. For the fjord towns of Thyborøn (pop. 2100, located towards the North Sea by the Thyborøn Channel) and Løgstør (pop. 4000, located approximately 80 km east from the North Sea) flood hazard, vulnerability, and risk assessments and mapping are combined with community resilience studies to provide the corresponding municipalities with a more elaborate knowledge platform for climate adaptation and disaster risk reduction. Community resilience is investigated in four dimensions (information & communication, community competence, social capital, and institutional capacity) from +25 semi-structured interviews conducted with local citizens, municipal level employees as well as national government officials. Despite facing the same flood hazards, the two communities have different h istories, social structures, and previous flood experiences and, accordingly, have different resilience strengths and limitations inherent. Thyborøn emerged over the past century as a fisheries town protected from the North Sea by large sea dises constructed by the national government. Life in a harsh physical environment and no significant flood accounts in decades, means that neither the community nor the municipality perceives floods as any immediate threat. Municipal adaptation planning is slowly forming but hitherto without engaging the local community, and the town has no formal emergency preparedness plan. In contrast, the medieval town of Løgstør last experienced severe floods in 1981 and 2005 which led to the construction of a s	
	measures, and to strengthen community resilience.	
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