



Norwegian University of
Science and Technology

WP 4.1 Unpacking and measuring community resilience

NTNU: Haakon Lein, Gunhild Setten, Silje Aurora Andresen, Aleksi
Räsänen UI: Gudrún Gísladóttir, Gudný Eydal, NCIP: Gudrún
Jóhannesdóttir.



ClimRes

Climate change and natural hazards:
the geography of community resilience in Norway

WP 4.1 Unpacking and measuring community resilience

- Community resilience = the ability communities have to prepare for, act during, and recover after a crisis.
- **Main questions:**
 - Which factors contribute to community resilience?
 - Which community resources can be, and are mobilized in a crisis situation?
 - How can aspects of community resilience be measured?
 - How can community resilience be strengthened?



Telefonlinje på kjøkkenet til ekteparet Ruth og Gunnar Stamnes på Uran i Flatanger var eneste sikre kommunikasjonslinje ut fra brannstedet. Derfor ble kjøkkenet til ekteparet gjort om til kommandosentral for redningsarbeidet under Flatangerbrannen.
Foto: Silje Kolaas, NRK Trøndelag

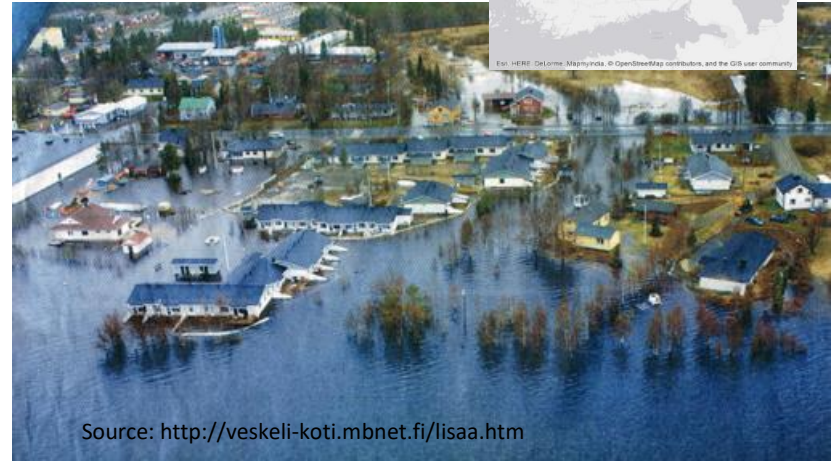
Community resilience and floods in Finnish Lapland

Post doc .Aleksi Räsänen NTNU
M.Sc .student Vera Kauppinen University of Helsinki

Aim: How the community can be conceptualized and what kind of roles it has in flood risk management

Data: Semi-structured interviews, household survey and policy documents from two flood-prone communities

Results/conclusions: Community has multiple and conflicting roles and lacks clear organizational and spatial boundaries



Source: <http://veskeli-koti.mbnet.fi/lisaa.htm>

Norway: What does local communities do before, during and after a crisis.

Case studies of recent events (floods, fires) e.g. the Lærdal and Flatanger fires in 2014.

1 PhD & 12 master thesis

Covering issues such as:

- Preparedness
- Recovery
- Risk perceptions
- The role of local knowledge



Flatanger, January 28, 2014 (Photo: M. Langfjord)

Master students

2018

- Kauppinen V (2018) *"Local community means something like team spirit?" Community resilience of flood risk management in Kittilä*. Master Thesis, Department of Environmental Sciences, University of Helsinki

2017

- Siri Valen. 2017. *«God beredskap er å være forberedt på det uforutsette».* *En studie av storflommen i Holtålen kommune august 2011* Master thesis, Departement of Geography, NTNU
- Inger Bakken Gjørva. 2017. *Risiko, risikokommunikasjon og beredskap. Ein studie av trusselen frå Åkerneset og kva påverknad dette har på Geiranger.* Master thesis, Departement of Geography, NTNU

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Presentations etc, 2017

Setten G & Lein H: *The temporality and spatiality of 'local' knowledge and its relevance for climate change adaptation and natural hazard management* –ECCA Glasgow 2017 Nordress session*

Andresen, S A: Speed presentation: *The Political Ecology of Disasters: a case study of the fire in Lærdal, Norway* NTNU, SU-Fakultetets Oppstartskonferanse. March 16th 2017

Andresen, S A: *In the heat of the moment: a local narrative of the responses to a fire in Lærdal, Norway*. *NEEDS 2 Conference, Copenhagen May 17th – May 19th 2017

8th Conference of the International Society for Integrated Disaster Risk Management Reykjavik 23-25.08 2017

- Andresen SA: *'You need to be where the fire happens': the construction of the 'local' in Norwegian newspapers after the fire in Lærdal, Norway*. Wednesday 23 P6 14:10-15:40 *
- Andresen, S A: *In the heat of the moment: a local narrative of the responses to a fire in Lærdal, Norway*. Poster presentation*
- Setten G: *Of men and materialities. A gendered reading of news media coverage of a wildfire in Norway in 2014*. –Wednesday 23 P6 14:10-15:40 *
- Räsänen A: *The role of networks and levels in community flood resilience – reflections from Finnish Lapland* –Thursday 24. P19 (11:15-12:45)
- Lujala P & Lein H: *Norwegian perceptions of climate change: The role of extreme events and personal experiences* Thursday 24 P15 09:25-10:55 (relevant for WP 4.2)
- Setten G: How to prepare for disasters? Panel interview.

Aleksi Räsänen: *Levels and roles of community in flood resilience – reflections from Finnish Lapland*. NTNU Department of Geography – Research Seminars Monday, 30 October 2017

Publications in progress

- Räsänen, A (to be submitted) *Panarchy of flood risk management. (Ecology and Society)*
- Räsänen, A, Kauppinen V, Juhola S, Setten G & Lein H (to be submitted) *Scales and roles of community in flood risk management (Journal of Flood Risk Management)*
- Setten, G & Lein H. (to be submitted) *'We draw on what we know anyway': The meaning and role of local knowledge in natural hazard management (Local Environment)*
- Andresen, SA & Lein, H (in preparation) *You need to be where the fire happens' The construction of the 'local' after the fire in Lærdal, Norway. (Norwegian Journal of Geography)*

Planned conference participations 2018

Society for Risk Analysis Europe 2018: Risk & Uncertainty – From Critical Thinking to Practical Impact. Mittuniversitetet, Östersund 18-20 Juni 2018

- Setten G & Lein H: 'We draw on what we know anyway': The meaning and role of local knowledge in natural hazard management.
- Räsänen A, Setten G, Lein H: Disentangling the roles of local communities in flood risk management.

8th International Conference on Building Resilience, Lisboa 14-16 November 2018:

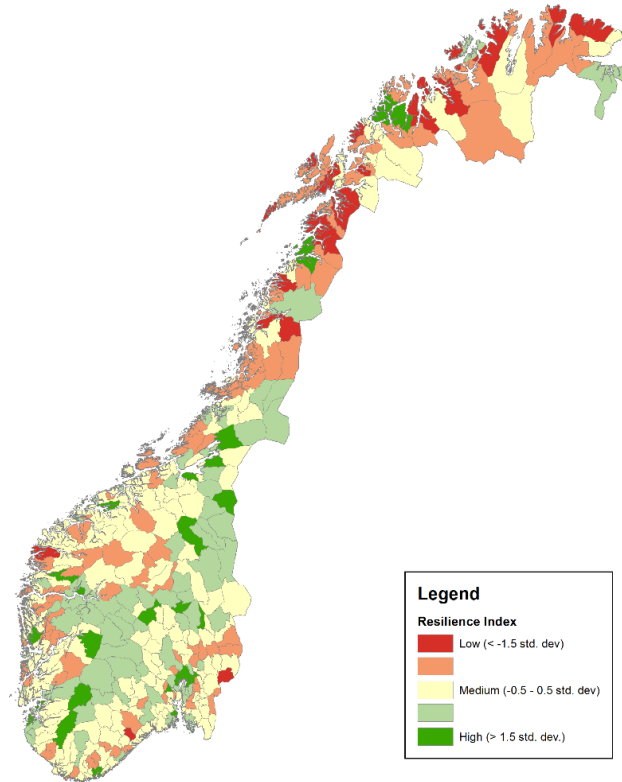
- Sabrina Scherzer: Subjective Perceptions of Community Resilience to Natural Hazards; The Norwegian Story

Index: Exploring spatial variations of community resilience

Sabrina Scherzer | PhD candidate

ClimRes

- Adaptation of the *Baseline Resilience Indicators for Communities (BRIC)* (Cutter et al. 2010, 2014)
- 48 indicators covering six resilience domains: social, economic, institutional, infrastructure/housing, community capital, and environmental
- Paper under preparation

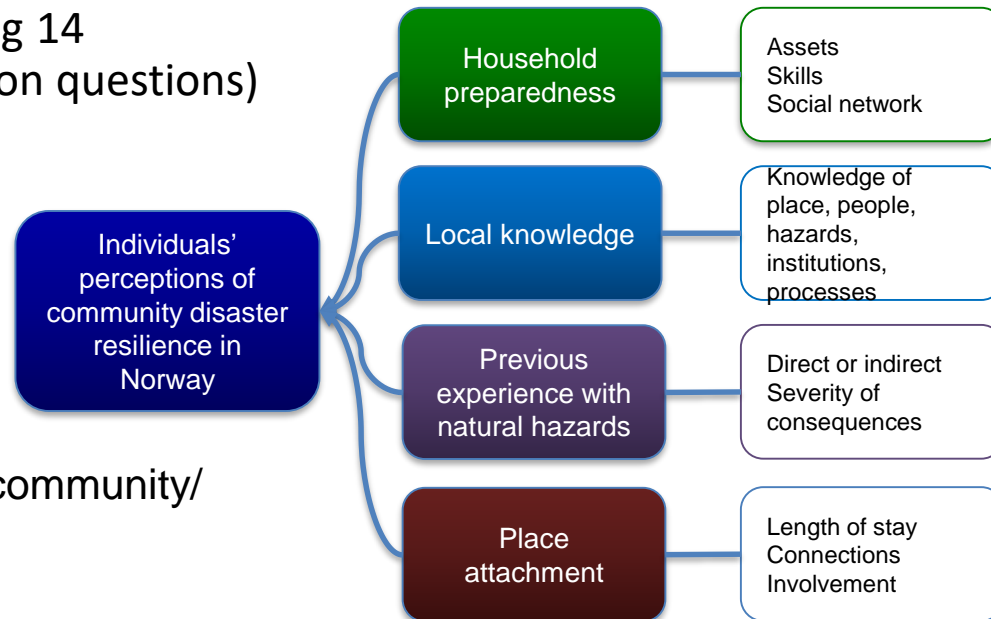


Survey: Exploring people's perceptions of community resilience.

Sabrina Scherzer | PhD candidate

- Nationally representative, large-scale survey (1800 respondents)
- 66 questions (including 14 background information questions)
- Analysis under way

Also:
Open ended question;
«How do you define your community/
Lokalsamfunn?»





Nordic Geographers Meeting 2019

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> Department of Geography / NGM 2019

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Sustainable Geography – Geographies of Sustainability

The 8th Nordic Geographers Meeting in Trondheim, Norway, June 16 – 19 2019

- Registration
- Dates and Calls
- Practical Information
- Organization