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The logo for CNDS NEWS FLASH. 'CNDS' is in a large, black, serif font. To its right is a circular icon with a yellow center, a red ring, and a blue outer ring. To the right of the icon, 'NEWS' and 'FLASH' are stacked in a black, serif font.

Dear CNDS fellows,

Before we end the year, we would like to take this opportunity to share some important updates. Although the recruitment process is still in progress, we can warmly welcome the following new CNDS doctoral students at this time.

- [Elena Mondino](#) - Department of Earth Sciences, Program for Air, Water and Landscape Sciences; Environmental Analysis, Uppsala University
- [Jaime Miguel De La Hoz Navarro](#) - Department of Earth Sciences, Program for Air, Water and Landscape Sciences; Meteorology, Uppsala University
- [Niranjani Joshi](#) - Department of Earth Sciences, Geophysics, Uppsala University
- [Emma Rhodes](#) - Department of Earth Sciences, Mineralogy Petrology and Tectonics, Uppsala University
- [Kristina Petrova](#) - Department of Peace and Conflict Research, Uppsala University

### **Highlights since the last CNDS news flash**

[New Powerhouse of knowledge and expertise](#) As of January 1, 2018, CRISMART (Center for Crisis Management Research and Training) will be transformed into a research program. Current staff members, together with two other units at SEDU, will be integrated into the Center for Societal Security, which will be headed by CNDS fellow Fredrik Bynander.

[New insights about volcanoes – Liquid magma can fracture](#) CNDS fellow Steffi Burchardt was awarded a research grant by the Knut and Alice Wallenberg Foundation for her discovery of a paradoxical property in magma: it can fracture even though it flows. Her aim is to understand how fracture formation in magma influences everything from the prediction of volcanic eruptions to deposits of noble metals and the formation of oil reservoirs.

[Unravelling the Mutual Shaping of Hydrological Extremes and Society](#) CNDS fellow Giuliano Di Baldassarre was awarded the European Research Council (ERC) Consolidator Grant for his project "HydroSocial Extremes: Unravelling the Mutual Shaping of Hydrological Extremes and Society," which will attempt to identify and address some of the fundamental knowledge gaps associated with the risks that are emerging from the interplay of hydrological extremes and society.

[Swedish disaster risk reduction governance and the Sendai framework](#) CNDS fellow Korbinian Breinl was interviewed for an assignment commissioned by the Swedish Civil Contingencies Agency (MSB) to investigate how the Sendai Framework for Disaster Risk Reduction is being implemented in Sweden and some of the challenges being faced in that process. The study builds on several interviews with representatives of government authorities, the private sector, civil society, counties, cities and research. [The full report of the study is available here.](#)

[Royal visit](#) The Centre for Climate and Safety's RiskLab recently hosted a visit by H.M. King Carl XVI Gustaf, county and university representatives, and local schoolchildren. The RiskLab is a meeting place for communicating and sharing knowledge of complex issues that stimulates discussions and learning. In addition to getting concrete information, visitors get the opportunity to test their new knowledge and skills by using two educational tools *Riskköping* and *Floodville*. Riskköping is community building game, where participants are tasked with building a sustainable and safe city. *Floodville* is a flood-simulation game where participants are assigned to protect the city's most critical places and services from flooding. These educational tools are used together to illustrate the complexity of disaster management and climate-related risks.

Congratulations to Linnea Sjökvist, who recently defended her doctoral dissertation [“Wave Loads and Peak Forces on Moored Wave Energy Devices in Tsunamis and Extreme Waves”](#).

## **Important dates for 2018**

- February 14 - CNDS Winter Party at SEDU. Preliminary program is attached here. If you would like to attend, please register by sending [Stephanie Young](#) an email and indicate if you have any special needs or dietary requests no later than February 9, 2018.
- March 22 – research seminar at SEDU
- May 3 – research seminar at SEDU
- June 14 – research seminar at SEDU
- August 20-24, 2018 - Summer School on Natural Hazards in the Anthropocene (location to be decided)

## **Recent CNDS publication highlights**

1. Moloney, Susie; Fünfgeld, Hartmut; and Granberg, Mikael, Editors. [Local Action on Climate Change: Opportunities and Constraints](#). Routledge. 2018.
2. Granberg, M. and Nyberg, L. [Climate change adaptation, city competitiveness and urban planning in the city of Karlstad, Sweden](#). Routledge. pp. 111-125. 2018.
3. Li, Ka Lok; Sgattoni, Giulia; Sadeghisorkhani, Hamzeh; Roberts, Roland et al. [A double-correlation tremor-location method](#). Part of *Geophysical Journal International*, p. 1231-1236, 2017. [DOI To DiVA](#)
4. Marchenko, Sergey; Pohjola, Veijo A.; Pettersson, Rickard; Van Pelt, Ward J. J. et al. [A plot-scale study of firn stratigraphy at Lomonosovfonna, Svalbard, using ice cores, borehole videos and GPR surveys in 2012-14](#). Part of *Journal of Glaciology*

[cores, borehole video and GPR surveys in 2012-14](#). Part of *Journal of Glaciology*, p. 67-78, 2017. [DOI To DiVA](#)

5. Andersson, Andreas; Falck, Eva; Sjöblom, Anna; Kljun, Natascha, Rutgersson, Anna et al. Air-sea gas transfer in high Arctic fjords. Part of *Geophysical Research Letters*, p. 2519-2526, 2017. [DOI To DiVA](#)



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