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In this newsletter of September we catch up on all the past events and some interesting research!

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# SNELLIUS NEWSLETTER

## September 2016



**Dear <<First Name>>**

Lectures are already going on for 4 weeks again and everyone is back from the summer holidays. I hope you all enjoyed it. On top of this, I would like to welcome 25 new master students who started our master track this year. In the first week of September, we had an active sports day with delicious dinner. I wish all new students a fantastic year and I hope everyone will enjoy the master. In this newsletter, our student of the month is Jeroen van Heyningen who is doing his master thesis at the JPL in the United States. Furthermore, we have tried to update the Snellius website so Mariska Koning has written a small story about this. The activity calendar is updated as well with a new activity upcoming soon. Please visit our [new website](#) for further information or contact us!

### Student of the month

*The student of the month is Jeroen van Heyningen, he is for his master thesis in the United States to create and validate maps that have been struck by earthquakes.*

My name is Jeroen van Heyningen and, at the time of writing, I am working on my master thesis at the Jet Propulsion Laboratory, Pasadena, in the United States. The main goal of my master thesis is to create and validate so called

The collapsed buildings show up in the DPMs as phase changes, pinpointing areas of destruction where help is required. These DPMs are therefore preferably created and ready for use within 48 hours after the moment the earthquake struck in order for rescue workers to have an overview of the situation. The acquisition of SAR data does not depend on the weather conditions and is therefore preferred

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using Synthetic Aperture Radar (SAR) data of the Sentinel-1 satellite.

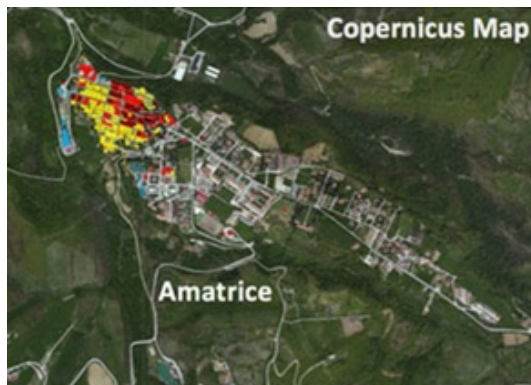
Changes in the surface of the Earth result in phase differences when comparing two SAR images that differ in time, whereas these differences can be located on pixel level. As you can understand, the massive forces initiated by earthquakes may result in the collapsing of damages and possibly trapping people inside the rubble.



Overall, this period abroad is a great possibility to develop yourself as a person and experience how working abroad would be. Being to do that at the Jet Propulsion Laboratory is a dream coming true. Especially the fact that people are working on missions to every corner of the universe is just an impressive thing to realize walking through the gates every morning.

If you have any questions about my experiences or the project, please let me know!

By Jeroen van Heyningen



The damage assessment map created by the Copernicus Emergency Management Service from aerial imagery data (left) and Comparison of a Damage Proxy Map (DPM) created with ALOS-2 data (right).

## New website

*During the summer holidays, Mariska Koning has updated the Snellius website. She will tell you what is new and where you can find information about courses.*

The new website is organised a bit as the old one, but now a page about the elective courses is added. In this part, you can find the courses that have already been followed by other students and how they experienced this. If you

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website. We wanted to update the Snellius Website, because we wanted to add some more features like a members database accessible to all members, an information page about all elective courses, and a new page for our sponsors.

working on a page about thesis projects and internships. Furthermore, we have a media tab where you can find all photos and videos of recent activities. And if you do not remember when and where the next activity is, just click on next activity button on the home page!

By Mariska Koning

## Upcoming activities:

- Wed 5 October - Bowling Snellius Activity
- Thu 20 October - Snellius Drinks

Want to stay up2date with all our activities? Subscribe to our calendar via [Google Calendar](#) or the [direct ICS link](#)



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