



«Hazel campaign 2011» – Developing a web-based plant phenological database, data collection and visualisation tool in Switzerland

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Geosciences
Platform of the Swiss Academy of Sciences
CPS
Commission for phenology and seasonality

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Aim

- build a real-time data collection and visualisation tool for Switzerland
- initiate phenology as a science-literacy project at elementary to high school level
- create a platform for collaboration

General background

Plant phenology is a prime example for informing the public about possible impacts of climate and environmental change on the biosphere. Moreover, plant phenology has been recognized as a very valuable tool to increase science literacy of students from kindergarten to high school (K-12) and universities (e.g. «project budburst», www.projectbudburst.org). In Switzerland, there is a number of institutions that have been collecting plant phenological data for decades including the Swiss Plant Phenological Network (MeteoSwiss), the BernClim network (University of Bern), the Forest Phenology Network (University of Bern, MeteoSwiss, WSL) and GLOBE Switzerland. However, there is no web-based data collection tool at present to provide real-time data for visualisation and now-casting of plant phenological phases.

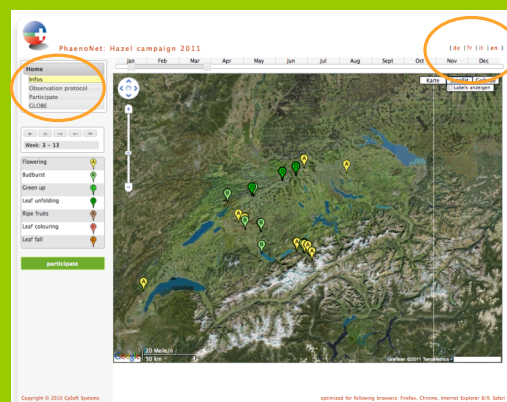
GLOBE campaign

In late 2010, GLOBE Switzerland (Global Learning and Observations to Benefit the Environment, www.globe-swiss.ch, www.globe.gov) initiated the «Hazel campaign 2011». Primarily this project focuses on K-12 students to record plant phenology as a part of the science education and learning about environmental change. The campaign provides several tools to students and teachers that are also open for the general public and observers of existing networks. We selected hazel (*Corylus avellana*) that is wide-spread across altitudes and is simple to recognize and observe for layman of all ages.

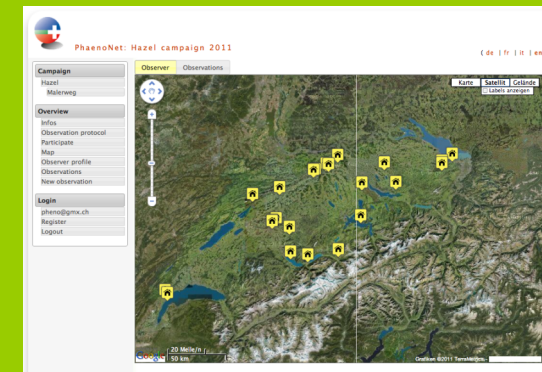
Internet

www.phaeno.ethz.ch/
www.globe-swiss.ch/de/Angebote/Kampagnen/Hasel/
cps.scnat.ch

View results – start page



Submit observations – register and manage your data



www.phaeno.ethz.ch

Concluding remarks and outlook

- The website uses existing protocols to match archived, digitized data back to 1951
- Merge with existing data
- Structure is applicable to other species
- multi-language version and flexible database structure
- Improve feedback and communication to participants
- Work towards a European real-time phenology platform

