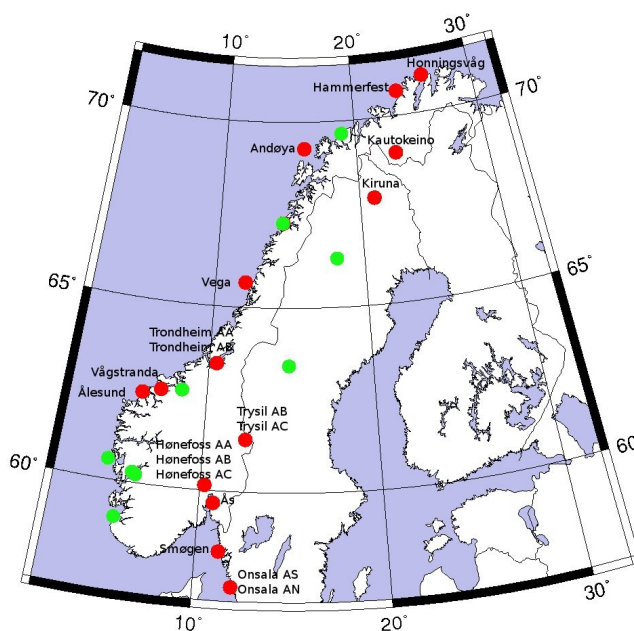


## Geodynamic activities in 2010 at University of Life sciences (UMB) and the Norwegian Mapping Authority (SK)

### FG5 activities

During 2010, UMB and SK has measured 20 sites with FG5-226, that is the red dots in the figure. Vega is a new station measured for the first time in 2010. Trysil AC is observed twice and Ås I observed 8 times.



### Velocity field

All permanent GPS stations in Norway, which have at least 2.5 years of data, have been analyzed. Time-series are produced using three different softwares. Work has also been done to interpolate the point velocities into a regular grid covering all of Norway. The interpolation will be done using kriging.

### g-dot h-dot

Cooperation have been established between UMB and SK to analyze time series of the FG5 gravity data collected so far in Norway, and time series of the GPS data collocated with the absolute gravity platforms.

### Plans for 2011

Norway is about to go through their old gravity network and observations. A new database, which will contain all gravity observations SK has collected, will be established. The old gravity network should be connected to the absolute gravity stations (measured by the FG5 instrument) and then recalculated into a consistent network. In 2011, a project should decide how this should be done after experience gained in two test fields, one in the relative flat eastern parts of southern Norway and a more difficult, mountainous area on the west coast of Norway.