Organisation

- Lecturers, Support
  - Albert Remke (a.remke@uni-muenster.de)
  - Edzer Pebesma (edzer.pebesma@uni-muenster.de)
  - Theo Förster (theodor.foerster@uni-muenster.de)

- Time & Location
  - Jour Fixe - Tuesdays 12-14
  - CIP (RvE, Weseler Str. 253)
What is GEONETCast

- GEONETCast is a near real time, global network of satellite-based data dissemination systems designed to distribute space-based, air-borne and in situ data, metadata and products to diverse communities.
What is GEONETCast

- **GEONETCast** is a Task in the GEO Work Plan (Group on Earth Observation) and is led by EUMETSAT, the United States, China, and the World Meteorological Organization (WMO). Many GEO Members and Participating Organizations contribute to this Task.

- The following products and services are being made available to the GEONETCast user community:
  - Meteosat image data
  - GOES East and West image data
  - Land and Ocean Sea Ice Satellite Application Facility (SAF) products
  - EUMETSAT meteorological products
  - NOAA-NESDIS meteorological products
  - NOAA-NESDIS Ocean colour and sea surface temperature products
  - VEGETATION products from VITO
  - MODIS Ocean colour products
  - CMA FY2C satellite images
  - CMA FY2C meteorological products
Motivation

- Highly valuable source of data/information
  - 139 Products available in Europe (Level1, Level2)
  - Global Coverage
  - High temporal resolution

- LowCost
  - Data free for Education & Research
  - Low cost HW/SW solution for data access

- Geoprocessing & Technology is still a challenge
  - Gap/bottle neck for turning data into information
    (-> geoprocessing, transport)
Motivation

- ifgi & ITC (International Institute for Geoinformation Science & Earth Observation) are Principal Partners in 52°North
  - ITCs starts organizing a GEONETCast community based on the 52N platform
GEONETCast I (WS 2009/2010)

- GEONETCast on Demand
GEONETCast I (WS 2009/2010)

- Automated Selection and Processing (ASAP)

- Web GIS Application
GEONETCast I (WS 2009/2010)

- Fire Web Service

- eWater geoNetwork
GEONETCast II - Course - Objectives

• Aim of the study project SS 2010 is to develop a reference architecture for integrating the GNC data stream into a spatial data infrastructure. Following this architecture we will implement the basic building blocs of this architecture, which will result in an operational offering for ifgi and other institutes of the GeoSciences department.
GEONETCast II - Course - Objectives

• Educational Objectives
  – Improve project management and SE skills
  – Improve knowledge on managing large time series of imagery data
  – Improve knowledge on integrating remote sensing data into spatial data infrastructures
GEONETCast II - Tasks

- Identify potential GNC users and use cases
- Specify functional and non functional requirements
- Draft a SW Architecture (Information model, Components, Interfaces)
- Evaluate alternative SW configurations
  - AGS Image Extension, GRASS or GeoServer
- Implement selected use cases incl. integration and testing
- Write both a technical and a user documentation
- Work with a dedicated project management and quality management
GEONETCast Workflow

- Close coordination with the seminar Building SDIs
  - Brief GNC reports to the seminar in May and July
- Weekly jour fixe, as to
  - Talk about the current steps, major decisions, results achieved etc.
  - Discuss methods, experiences
- Use a common TWIKI as a communication platform
  https://52north.org/twiki/bin/view/GEONETCAST/GEONETCastCourse_SS2010
  (case sensitive !)
- Deliverables
  - Project plan, QM plan, specification, architecture, technical and user documentation, system up and running
Next Steps

- Register for the GEONETCast-Wiki
  - Send a mail to Ann Hitchcock (hitchcock@52north.org)

- Assign the following roles to team members (n:m) and define their tasks in detail
  - Project Leader, Quality Manager, Business Analyst, SW Architect, SW Engineer

- Identify the required fields of knowledge and assign them to team members (may be changed later)

- Try to detail the task list as far as reasonable and draft both a rough estimation of capacity needed for the tasks and a first schedule