# Bjerknes Centre for Climate Research



Photo: Stian Rondestveit

### Bjerknes Centre for Climate Research

- □ Named after Vilhelm and Jack Bjerknes
- □ University of Bergen, UNI Research AS,
   Nansen Centre, Institute of Marine Res.
- □ National centre of excellence, 2003-2012. Direct funding from government 2010-2021
- □ 150 scientists, 25 nationalities. Recruiting from top institutions
- Past, present and future climate.
   Observations, theory and modeling
- Largest Nordic climate research centre, among top-five Europe
- Coordinates Earth System modeling, national research training.







#### Research groups

- □ RG1: Climate model development and projections
- □ RG2: Climate predictions and regional scenarios
- □ RG3: Carbon cycle and biogeochemistry
- □ RG4: Large scale atmosphere-ocean dynamics
- □ RG5: Atmosphere, cryosphere and ocean proces.
- □ RG6: Natural variability extending instr.l records
- □ RG7: Paleoclimate from greenhouse to icehouse

#### Internally funded projects

IPCC: IPCC AR5 work (2 yrs)

A. Sorteberg (UiB)

IMMUNITY: Multi-decadal natural climate variability
O.H.Otterå (UNI)

PRACTICE: Predictability of Arctic / North Atlantic climate

Tor Eldevik (SKD-UiB)

REGSCEN: Regionalisation of climate scenarios

A.B. Sandø (IMR), Stefan Sobolowski (UNI)

DYNAWARM: Dynamics of past warm climate
B. Risebrobakken (UNI), Camille Li (UiB)

SEALEV: Ice sheet dynamics and sea level change *J.E.Ø. Nilsen (NERSC)* 

BIOFEEDBACK: Biogeochemical feedbacks in the climate system A. Olsen (UiB), Jerry Tjiputra (UNI)

Total budget 70 MNOK from SKD, 100 MNOK in kind. New projects will start spring 2015.

#### Externally funded projects (starting 2014)

- □ RCN: KLIMAFORSK call. 9 of 13 projects to Bjerknes centre FRINAT call: 4 research projects, 2 postdoc stipends (Decadal prediction, ocean carbon update, northern MOC, ...)
- □ NordForsk: GREENICE. Predictability Arctic climate
- EU: Preface, 9 M€. 28 partners, 9 European, 9 African countries (Tropical Atlantic predictability and impacts)
   Ice2Ice (EU synergy). 12,6 M€. 4 partners, 2 countries (Ocean Sea ice Greenland ice. Paleo, modern, future)
- □ 12 Feb. SFI proposal on climate services submitted

### Research training

#### Norwegian Research School in Climate Dynamics (RCN)

□ 3 MNOK / year for 8 yrs. Ca 80 PhD students in Norway. (summer schools, workshops, graduate conferences, various support actions, )

# Norwegian – North America partnership in climate (SIU)

- □ Ca 600 KNOK / year. 4+4 yrs. Mobility, internationalization.
- □ ACDC summer schools 2009 2016

## Advanced Climate Dynamics Courses

