CUDA-TEACHING CENTER - LECTURE + LAB COURSE
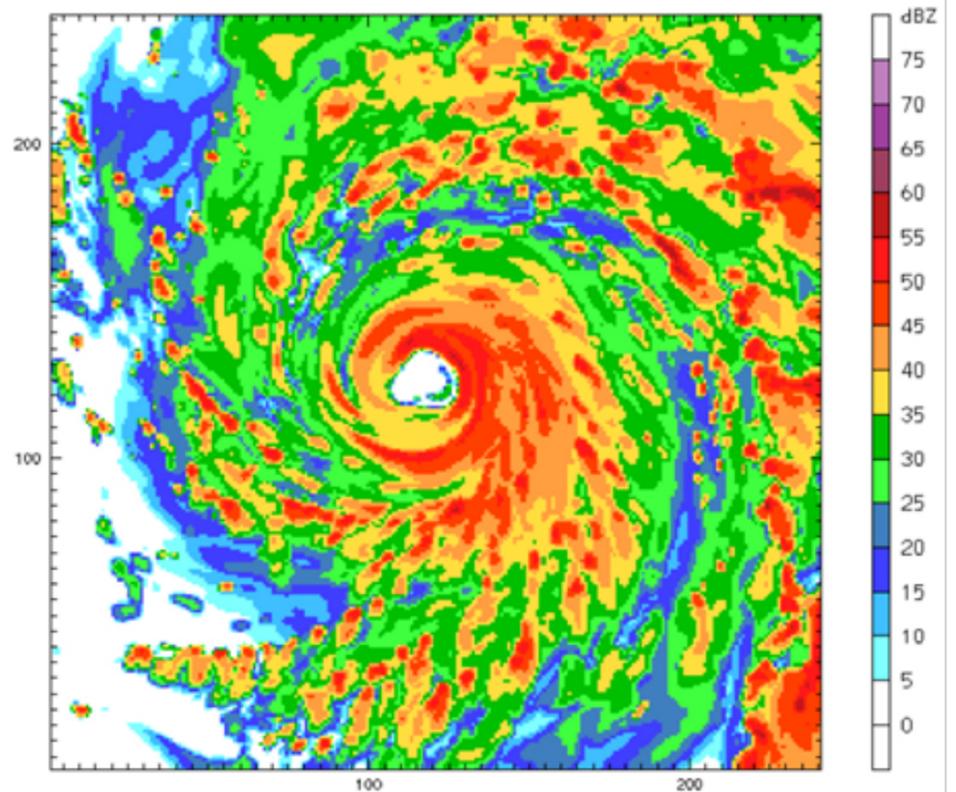
Kick-off meeting: 28.1.2011 1, 3 p.m
Location: Seminar room NAM (MN55)

Advisor: Stephan Kramer, Gert Lube, Marc Timme, Florentin Wörgötter

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The **Cuda teaching center** of the University of Göttingen, the Max-Planck Institute of Dynamics and Self-Organization and the BCCN offers a 4-week lecture and lab course about GPU-programming with NVida's CUDA.
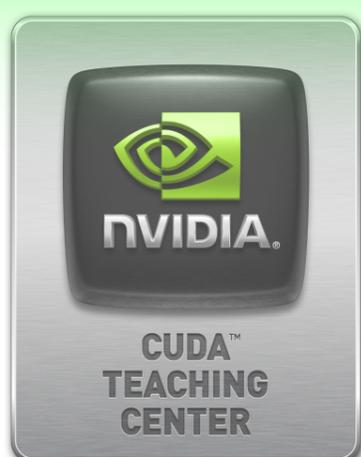

CUDA-based weatter forecast by NCAR (USA)

Lecture 7.3. - 11.3.2011
- Introduction to CUDA
- C++ for scientific computing
- Programming environment
- Algorithms for lab projects

Lab Course 20.3. - 1.4.2011
- Krylov methods + preconditioners
- Finite elements
- Image processing
- Neural networks

Useful Skills
- Sparse matrix computations
- C++-programming
- PDEs
- Nonlinear dynamics