

Hauptseminar

Ocean and Atmosphere Interaction

Nadja Landshuter

Institut für Geographie

Nadja Landshuter

Wetterkreuz 15, 91058 Erlangen

Tel. +49 9131 85-22643

Fax +49 9131 85-22013

nadja.zeiher@fau.de

www.geographie.uni-erlangen.de

Study Course: BA/BSc/LAGY/LAR/LAGH (Alte PO: Module PG/KG 5, PG/KG 7, GLG 4, GLG 5, GLR 4, GGH 3; Neue PO: PG/KG 13, GZB 11, GLG 8)

ECTS: 5 (2 SWS)

Number of Participants: max.24

Date: Mondays, 12:15-14:15, Room: see UnivIS

Mandatory Pre-Meeting: Mittwoch, 29.01.2020, 10:15-11:45, Raum 00.175

Language: Deutsch/Englisch

The climate of the earth is a dynamical and non-linear system within which subsystems (atmosphere, ocean, cryosphere, biosphere and geosphere) are interacting with each other. In particular, the oceans and the atmosphere are closely coupled. A very prominent example of such an interaction is the El Nino Southern Oscillation phenomenon. The main aim of this seminar is to increase the students understanding of the system and to discuss meaningful components and mechanisms of the atmosphere, the ocean and the interaction between them. Additionally, the role of climate models, climate change and adaptation possibilities are optional topics that can be considered. Literature recommendations will be given at the beginning of the seminar and in consultation with me for specific topics. Besides a basic knowledge in climatology, it is also necessary to have solid English skills in order to include current research results published in international journals. An active participation in discussions is expected.

