

**Institut für Meteorologie und Klimaforschung
KIT Campus Nord / KIT Campus Süd**

Dozenten: Prof. Dr. P. Braesicke, Prof. Dr. A. Fink, Prof. Dr. C. Hoose, Prof. Dr. P. Knippertz, Prof. Dr. Th. Leisner, Prof. Dr. J. Pinto, Prof. Dr. M. Kunz, PD Dr. M. Höpfner

**Einladung zum „Karlsruher Meteorologischen Kolloquium“
Invitation to the "Karlsruhe Meteorological Colloquium"**

**„Current research challenges in the predictability at subseasonal
and seasonal time scales”**

Dr. Magdalena Balmaseda,
ECMWF, Reading, UK

Dienstag, den 22. Juni 2021
Tuesday, June 22, 2021

von 15:15 Uhr bis 16:15 Uhr (Lokalzeit)
from 2:15 pm to 3:15 pm (UK-Time)

Online

<https://kit-lecture.zoom.us/j/93311079176?pwd=WXVPbytDVlU1TzQxVmNNdlU5TzdnUT09>

Abstract: This talk will present the predictability research carried out at ECMWF targeting the subseasonal and seasonal time scales. The aim of our work is to explore relevant directions to improve the skill of the ECMWF forecasting systems. This involves both exploring the predictability horizon of the earth system, as well as identifying those elements limiting the actual forecast skill. The aim is to guide future development of the ECMWF Seamless Earth-System forecasting system. The predictability research at these time scales encompasses a large number of challenging areas, such as detection and attribution of signals, measure of skill, separation of forecast errors from unpredictable events, relation between systematic model error with both forecast skill and physical processes. There is a strong need for data analysis approaches combining advanced statistics with dynamical constraints. The wide range of problems can only be tackled with a strong engagement from the wider academic community.

gez. Prof. Dr. Corinna Hoose

Prof. Dr. Joaquim Pinto