

# Leveraging Large Language Models for Weather and Climate Information Retrieval

*Thursday, 6 June 2024 09:01 (39 minutes)*

Large Language Models (LLMs) have revolutionized the way we interact with data and information. We will examine the potential of LLMs in enhancing the interpretation of complex weather and climate datasets, as well as generating new insights through data processing and analysis. We will begin with an overview of LLMs, outlining fundamental approaches to developing systems that utilize them, such as chatbots. Subsequently, existing services and prototypes utilizing weather and climate data are discussed, followed by considerations of potential future services in this domain.

**Primary author:** KOLDUNOV, Nikolay (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung (AWI))

**Co-authors:** JOST, Antonia (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung (AWI)); KUZNETSOV, Ivan (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung (AWI)); JUNG, Thomas (Alfred Wegener Institute Helmholtz Center for Polar and Marine Research)

**Presenter:** KOLDUNOV, Nikolay (Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung (AWI))

**Session Classification:** Machine Learning and the AIFS