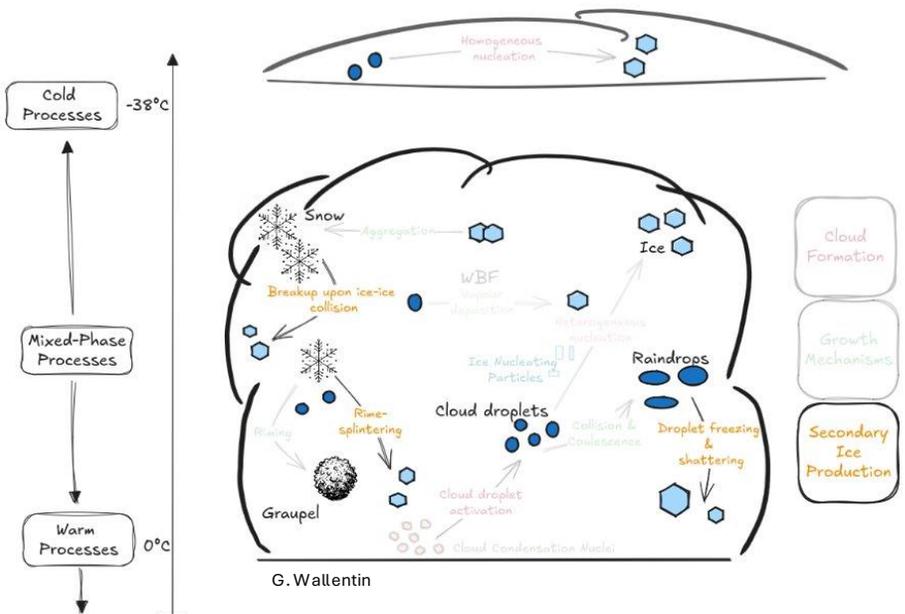
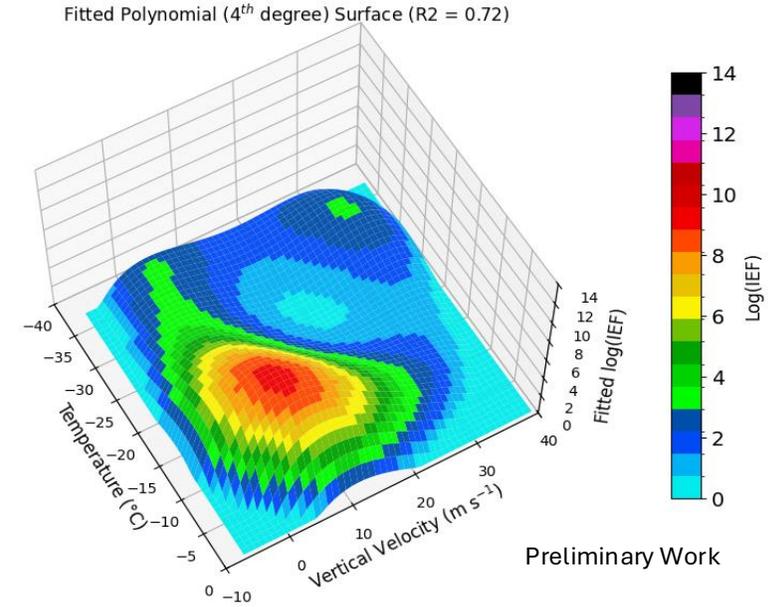
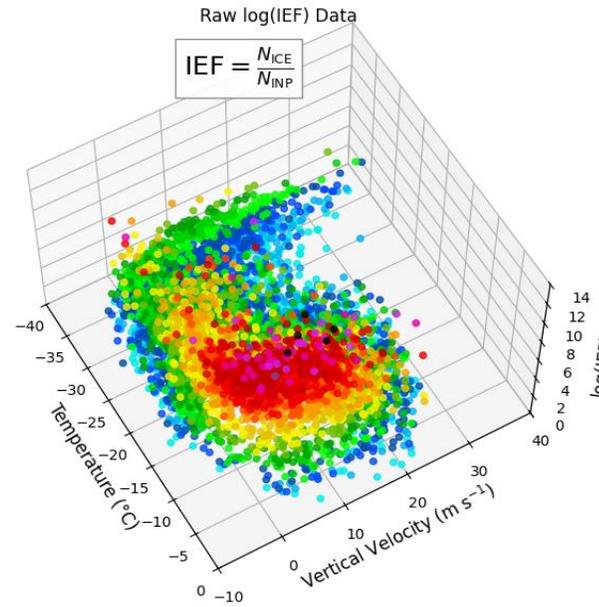


Predicting Secondary Ice Production using Machine Learning

- Secondary ice production (SIP) is hypothesised to have a large impact on clouds
- Ice Enhancement Factors (IEF) quantifies this impact on the cloud ice number concentration
- Using ICON simulations this project aims to train a machine learning method to predict the IEF across different cloud systems



- Tasks:**
- Running the numerical weather prediction (NWP) model ICON in various locations across the globe (US plains, Arctic, Europe)
 - Set up a machine learning framework to predict the IEF
- Skills Gained:**
- NWP modelling
 - Python and FORTRAN programming
 - Machine learning
 - Large data handling