1 Data pipeline

The main motivation for writing this section is to outline the production pipeline which collects and merges different sources of data into the finished data-generator used to train the Deep Learning model. Ideally, this section will be somewhat exhausting such that all steps taken are presented clearly with the intent of providing a source for the inspiration as well as the necessity of the step. However, source code will be presented sparingly.

Sea Ice Charts

The Sea Ice Charts used are a derived dataset of the Sea Ice Charts presented in a previous section . The present Ice Chart dataset has been postprocessed by Nick Hughes of the National Ice Service, such that they are presented on a 1km Arome Arctic grid. Furthermore, the Ice Charts does not feature a landmask, which has been replaced with interpolated values resulting in a spatially consistent dataset where all values present are according to the WMO Sea Ice Concentration intervals [1].

label sections

References

[1] JCOMM Expert Team on Sea Ice. Sea-ice nomenclature: snapshot of the wmo sea ice nomenclature wmo no. 259, volume 1 – terminology and codes; volume ii – illustrated glossary and iii – international system of sea-ice symbols) ., 2014.