Part 2: meteorological data: dimensionality reduction and visualization

PCA reduction to 2 dimensions

PCA reduction to 3 dimensions
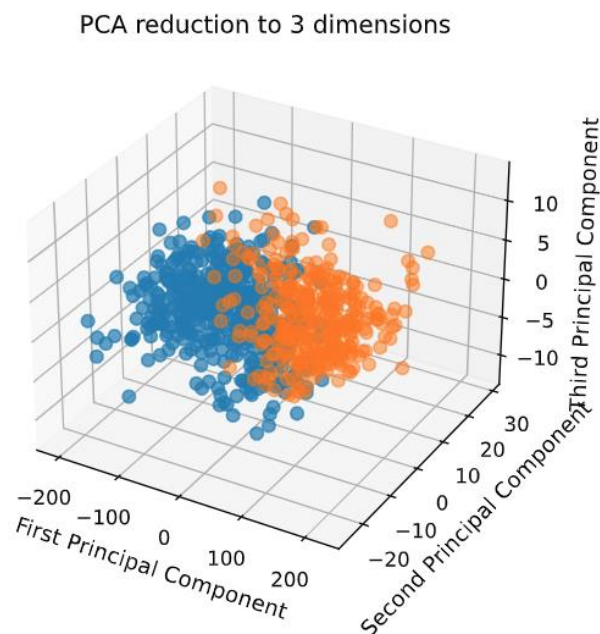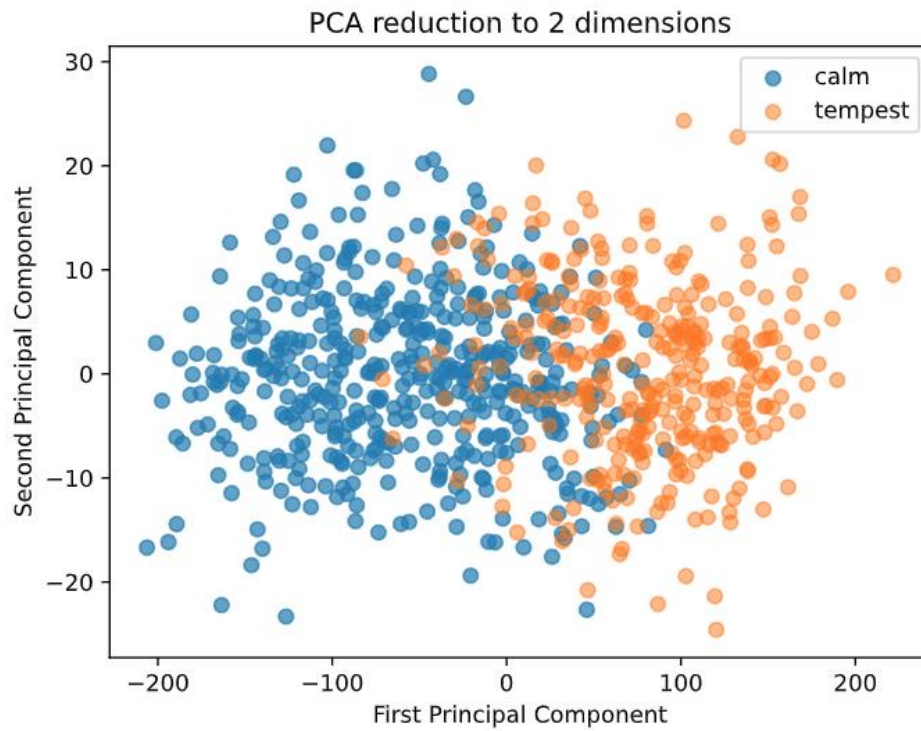
Which dimension, between 2 and 3, seems to allow to predict the label based on the projected components only?

A 2-dimensional reduction seems to allow to predict the label based on the projected components only. In, fact, we can figure out that this dataset is reductant.