

TREELINE RESEARCHES

The altitudinal level of Alpine treeline, due to its particular ecotonal nature, is strongly influenced by temperature fluctuations.

For this reason, it is very sensitive to climate change although the underlying mechanisms that ultimately cause the treeline formation are still unclear.

Thanks to the support of this Centre several projects studying treeline formation and dynamics have been carried out in the Dolomites area. By installing several micro-meteorological stations for long term monitoring at high altitude, we investigate the influence of ecological factors adopting different approaches: from the dynamic of wood cells formation, to the phenology and water relations, from tree allometry to dendrochronological analysis.

