

IEA Wind TCP Task 52 (Wind Lidar)

Working group (4): Cold climate

Summary of the objectives:

The work of the group will concentrate on three main objectives

- impact of data availability on Lidar measurements (e.g. relaxed filters vs. IEC (impact on Energy Yield Assessment and on forecasting); comparison between meteorological masts and Lidar measurements according to data availability; sensitivity study on the relative importance of meteorological physical quantities on the data availability)
- icing (e.g. compare different Lidar technologies to see which ones are more resilient to icing; find strategies to manage icing when it occurs)
- icing detection

Additional objectives might be added in the future.

Planned deliverables:

The expected deliverables will be in the form of technical notes or presentations (all to be published on Task 52 Zenodo side), they will concern the points described in the objectives.

Group approach:

The group will meet online every height weeks in order to discuss general progress and realign.

There may also be participation in face-to-face conferences.

Timeline:

The timeline is not yet defined and will depend on the order in which the points of the objectives will be treated. Note that the activities build on the working group already established under Task 32, but new participants are very welcome to join.

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