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## Using the GLD360 to provide accurate lightning statistics

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### Abstract

The GLD360 has been available for long enough to provide valuable statistical information. But as the technology has been enhanced at different stages the data set must be corrected in order to be homogeneous. In particular the IC/CG classification was not available in the earlier years and has been implemented only in 2018.

The availability of lightning density, peak current distribution as well as yearly or daily variation is of interest for the protection of people and assets. They are much more meaningful than the iso-keraunic level still in use today at many places.

We will present the methods used at Météorage to calibrate the GLD peak current and evaluate its CG detection efficiency. We will exemplify the interest of the lightning statistics through various end-user cases, in particular for the renewable energy sector in developing countries where no other lightning data can be obtained.

### Topic Areas

Lightning Detection Systems Technology and Performance, Lightning Safety, Protection, and Casualty Occurrence

### Submission Format

No preference