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An Evolving La Thuile Fluxnet Dataset and Support Infrastructure

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The global FLUXNET synthesis dataset contains over 920 site-years from over 240 sites and continues to grow. This growth reflects previously unavailable processed flux-met data becoming available. The ancillary site information such as biological and disturbance data also continues to evolve. As analysis efforts have gotten underway, issues with the underlying data are often uncovered and the data are corrected when possible. The size of this dataset ($\sim$70GB) makes finding site years of interest and tracking versions difficult for individual users.

We have developed a Scientific Data Server which enables browsing of the data online, data download, version tracking, and the simple production of data summary products. The Scientific Data Server allows individual researchers to concentrate on science rather than data management. We leverage database tools such as data cubes and web reports to enable Excel pivot table and browser access to the data. The data cubes provide organization and aggregation of data along dimensions including time such that it is easy to retrieve daily, monthly, and yearly calculated values. In addition, we have leveraged available collaboration technology (SharePoint) to provide public pages describing the dataset, provide proposer and site PI data access, track data versions and updates, notify users of server updates, and enable support for contact between site PIs and researchers using the data.