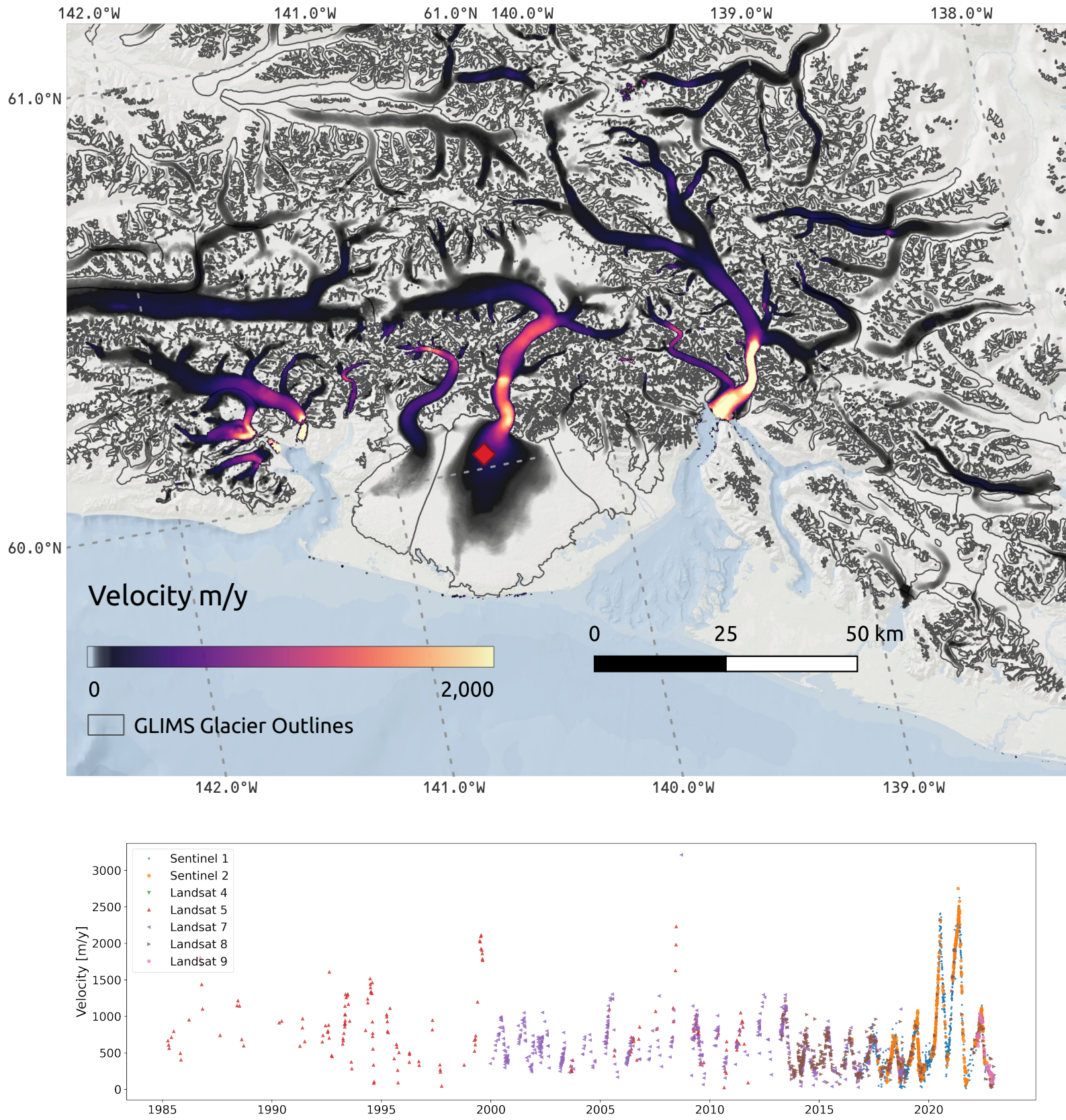

Figure 4. The Jupyter-based dashboard https://itslive-dashboard.labs.nsidc.org/ and web based widget https://nasa-jpl.github.io/itslive-web/ let us query time series of glacier velocity and export the data into familiar formats like NetCDF or CSV files. A single time series query can contain more than 200k data points. Despite the size of the dataset rendering these time series usually take less than 3 seconds to be completed thanks to the time-aligned chunking. Malaspina glacier (center) in Alaska is one of the glaciers that have shown a recent surge in activity (rapid acceleration). Near real time data processed by ITS_LIVE has helped scientists plan field campaigns to place in situ instruments to study the surge in detail.