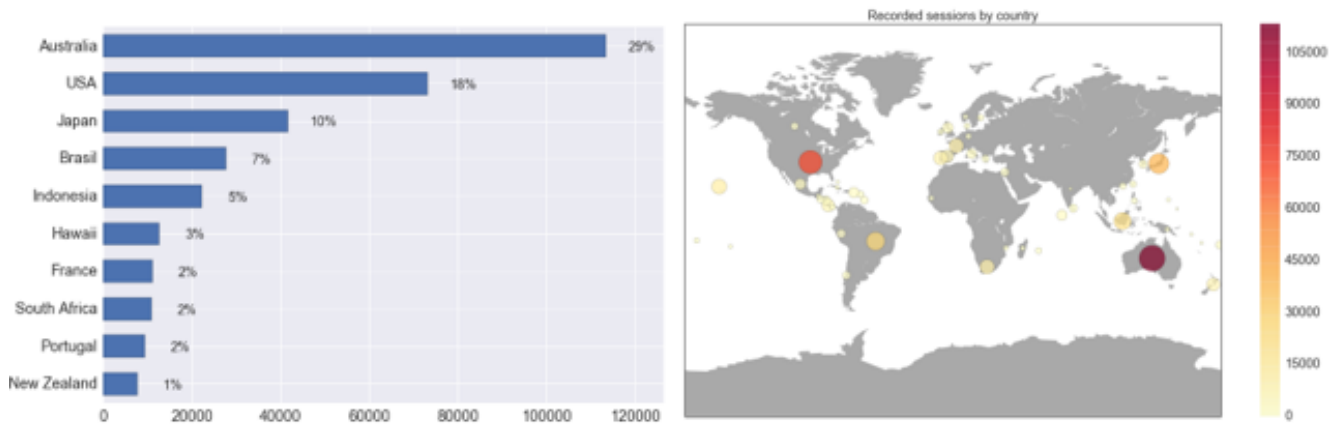


SCIENTIFIC AND COMMERCIAL APPLICATIONS OF RIP CURL SEARCH GPS WATCH DATA



INFO:

Location: Global

Client: Rip Curl

Project Date: 2016

SCOPE OF WORK:

- Analysis of individual wave data
- Analysis of summary data
- Expert recommendations



PROJECT DESCRIPTION:

We investigated different ways in which data collected by users of the Rip Curl Search GPS watch can be used for scientific research and/or commercial applications. The primary focus of our study was to determine the most appropriate statistical tools based on the available watch data for use in defining a surfbreak's functional performance.

We developed several tools to facilitate our analysis and improve on the data available in the Rip Curl database. We then developed tools to properly determine the environmental conditions present at the time of each surf session. This was followed by an improved set of tools to extract session-concurrent wind and wave data that was consistent across all surf sessions. Once these issues were dealt with, a clean, uniform data set of surf session and individual wave information was available for analysis.

