

Explanation

AlpArray 2016 & 2017: data quality analysis based on surface waves



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For surface wave analysis, we are interested in two-hour time windows for each earthquake. For different reasons we cannot use the data of all stations for the data processing. These are: the record is not available for the given day, components are missing, there are too many gaps or overlaps, the traces are shifted in time, the records are too noisy or have no seismic signal.

We selected **32 earthquakes spanning 2016 and 2017** and investigate the quality of the data before the surface wave analysis. This poster summarizes information about availability and quality of the data for **918 stations** and the respective time window for each earthquake

in total Plot all stations **Download the data Check for** 20 % 2h segments Length for each earthquake Gaps of data **Overlaps** FDSNWS 😃 **Traces** bad quality Components ~ 15 % not available ~ 10 % data rejected ~ 10 % data rejected

M7.1 North of Ascension Islands, 2016-08-29 (random example





