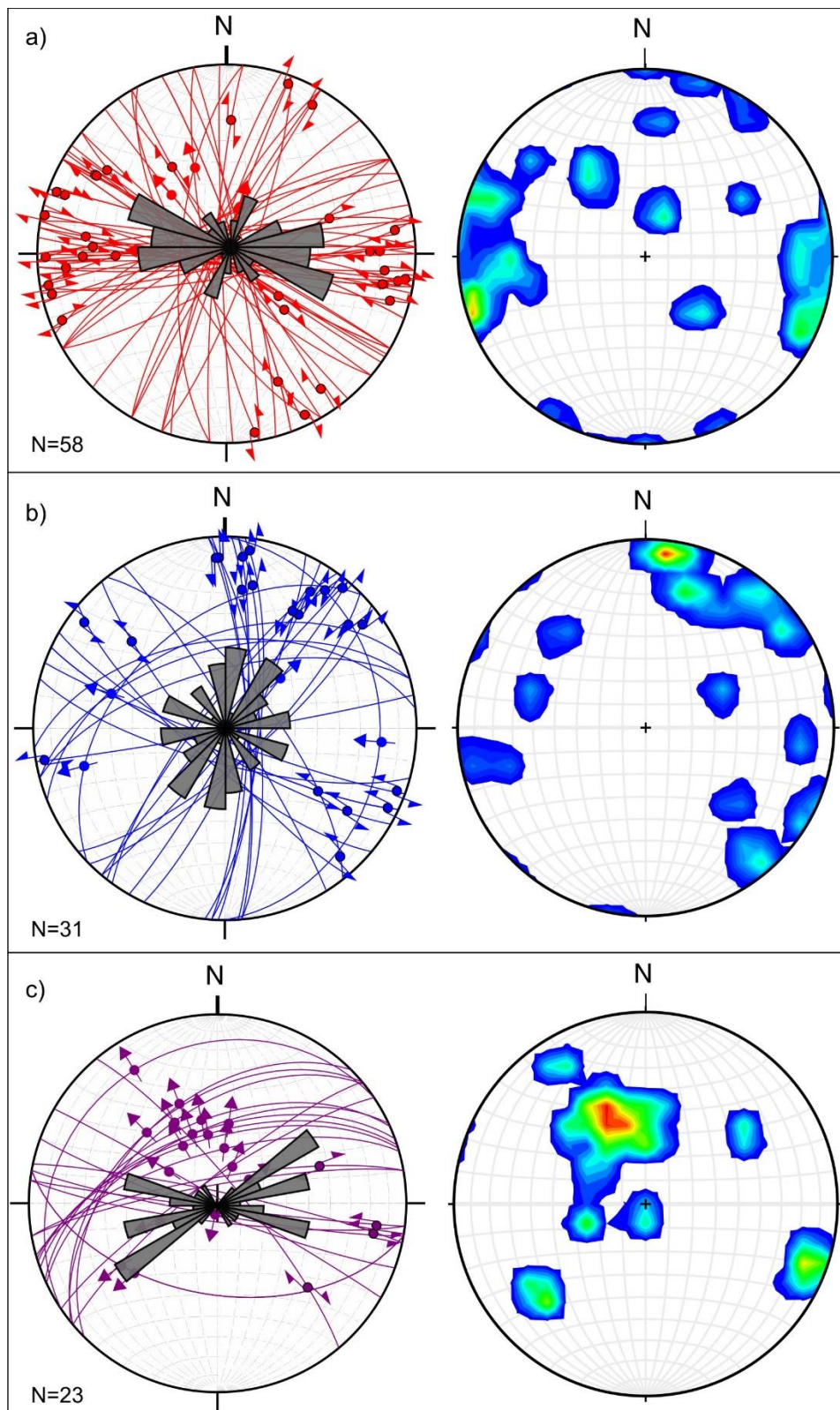


Supplementary figure A1. Simplified geological map of the PGA region and the Cinzas catchment. Symbols indicate the sample locations with their respective ages (Ma) from published apatite fission track (AFT), U-Th/He and $^{40}\text{Ar}/^{39}\text{Ar}$, according to the authors as listed in the legend of the map.



Supplementary figure A2. Kinematic data (Schmidt diagram, lower hemisphere) from the major fault zone domains of the Cinzas Catchment; great circles, rose diagrams and poles of surfaces of a) right-lateral strike-slip faults, b) left-lateral strike-slip faults and c) normal faults.

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