## Thermochronometry
| "Samples on Transects" and "Samples off Transects" tabs | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 |
| --- | --- | --- | --- |
| Attribute | Description | Type | Units |
| Sample Name | Sample identification | char | NaN |
| Longitude | Longitude at sample location | double | deg |
| Latitude | Latitude at sample location | double | deg |
| Elevation | Elevation of the sample location | double | m |
| Geologic Formation | Name of the geologic formation from which the sample was collected | char | NaN |
| Age of Formation | Geologic age of the formation from which the sample was collected | char | NaN |
| Mean Apatite He Age | Mean age of replicate analyses of apatite grains, ± standard error | double | Ma |
| Mean Zircon He Age | Mean age of replicate analyses of zircon grains, ± standard error | double | Ma |
| NaN | NaN | NaN | NaN |
| "Raw elemental data" tab | NaN | NaN | NaN |
| Attribute | Description | Type | Units |
| Name | Grain identification | char | NaN |
| U | Measured Uranium concentration | double | ppm |
| U SD | Standard deviation of measured Uranium concentration | double | ppm |
| Th | Measured Thorium concentration | double | ppm |
| Th SD | Standard deviation of measured Thorium concentration | double | ppm |
| Sm | Measured Samarium concentration | double | ppm |
| Sm SD | Standard deviation of measured Samarium concentration | double | ppm |
| He | Measured Helium concentration | double | ncc |
| He error | Instrumental error of Helium concentration measurement | double | ncc |
| He | Measured Helium concentration in ncc/g | double | ncc/g |
| Shape | Morphology of apatite grains: nn = a grain with two unbroken euhedral tips; pp = a grain with both tips broken such that they are roughly perpendicular to the c-axis; np = a grain with one unbroken tip and one tip broken roughly perpendicular to the c-axis; multigrain = multiple apatite grains degassed for 4He within one packet due to low single-grain 4He yield. | char | NaN |
| Effective Uranium (eU) | eU = [U] + 0.234[Th] + 0.005[Sm] | double | ppm |
| Mass | Mass of grain | double | mg |
| FT | Alpha-ejection correction | double | NaN |
| Radius | Radius of grain | double | um |
| Length | Length of grain | double | um |
| Uncorrected Age | Measured age | double | Ma |
| Corrected Age | Measured age divided by alpha-ejection correction | double | Ma |
| Age Error | Propogated instrumental uncertanties of measured age | double | Ma |
| Mean Age | Mean age of replicate analyses, ± standard error | double | Ma |