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Drill Core Structural Orientations using “alpha and beta” angles

The following measurements are required:

- Alpha and beta angles of the structures
- The dip and azimuth of the drill hole

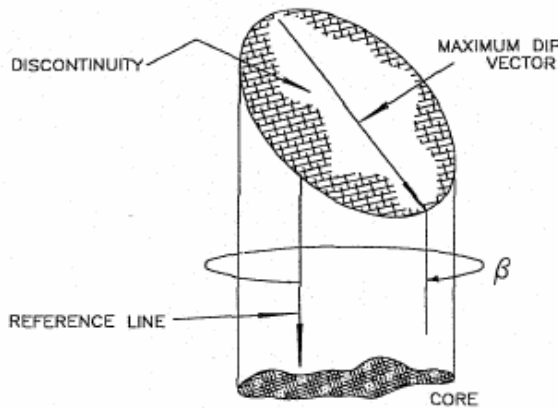
A computer program such as DIPS or the GEOTECH module in GEOACCESS 2000 is used to calculate (and plot) the True Dip and True Dip Direction of the structure.

The diagram below shows how to measure alpha and beta angles:

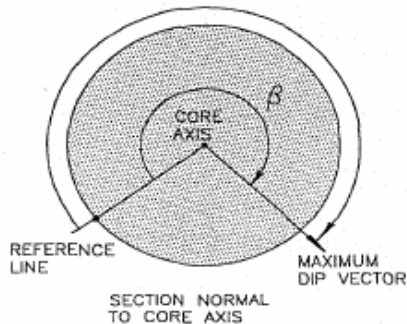
When logging core for which the orientations are suspect, note the different intervals of core for which you've used particular orientations; e.g. for interval 425 to 480 metres, you used the "Bottom of core" orientation mark at 456m depth.

Be comprehensive with the structure logging (but not too extravagant). We are trying to determine if there are consistent sets of structures. There is therefore no need to measure every feature. If there are clearly a number of structures of the same type, in the same overall orientation, then take representative measurements.

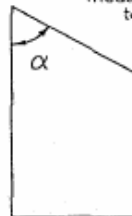
ORIENTATION PARAMETERS FOR BOREHOLE DATA – ALPHA & BETA



CORE DIP DIRECTION ANGLE, β , measured clockwise relative to REFERENCE LINE looking down core axis in direction of drilling



CORE DIP ANGLE, α , measured relative to core axis



SECTION PARALLEL TO MAXIMUM DIP VECTOR

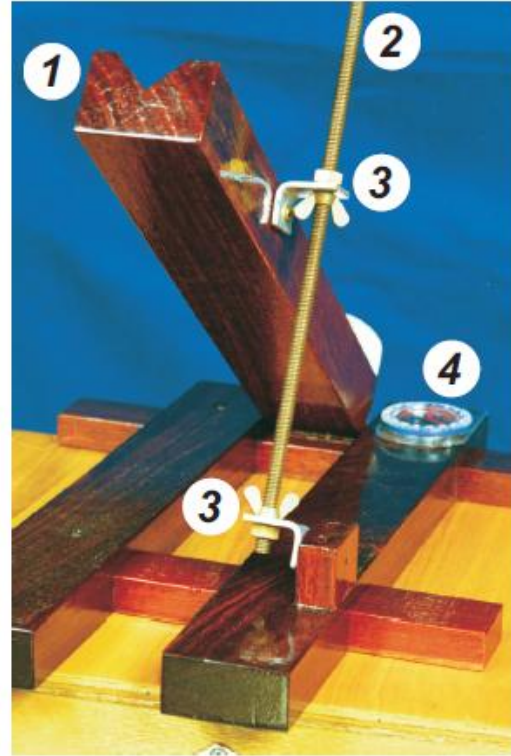
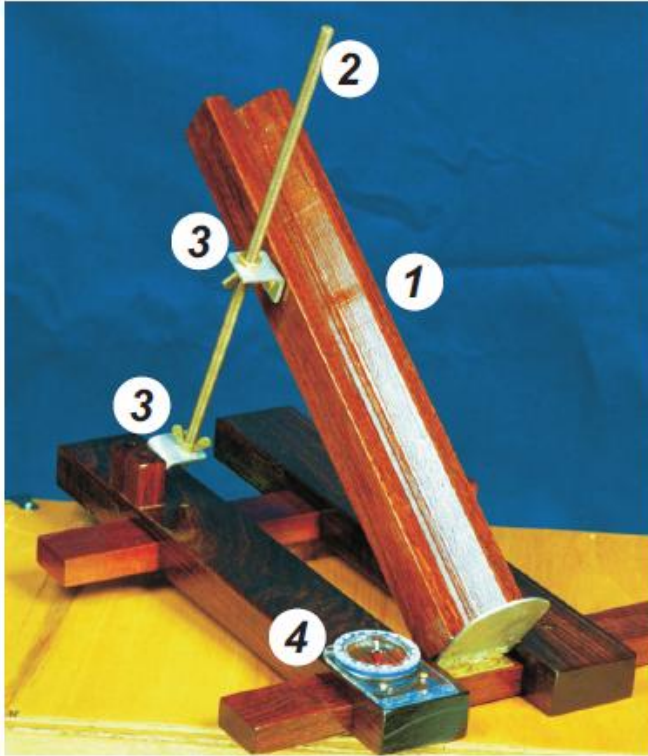
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Rocket Launcher

- 1: Cradle
- 2: Inclination Adjustor
- 3: Lock nuts
- 4: Compass