**Unit 2.2 Weathering Rates**

The data for this example of tombstone weathering from two Australian cemeteries are from Dragovitch, 1986.

Dragovitch (1986) Weathering rates of marble in urban environments, eastern Australia

Zeitschrift für Geomorphologie 30:203-214

1. Plot weathering depth vs. age for limestones in Sydney and Wollengong.
2. Determine the relationship between weathering depth and age with an estimated best fit line and equation.
3. Estimate the mean weathering rate (in mm/century) for each dataset.
4. Speculate on the reasons why the weathering rates might be different.

In your 5 - 10 minute group presentation, include the following elements:

* What is the main idea?
* How does this method work?
* What kind of results were obtained using this method?
* How is the data analyzed? Where should it be used? Over what timescales is it useful?
* What are its advantages and disadvantages?
* What are the limitations to this method of analysis?
* How is this relevant to the Critical Zone?