

Lecture 10: Radioactive Decay

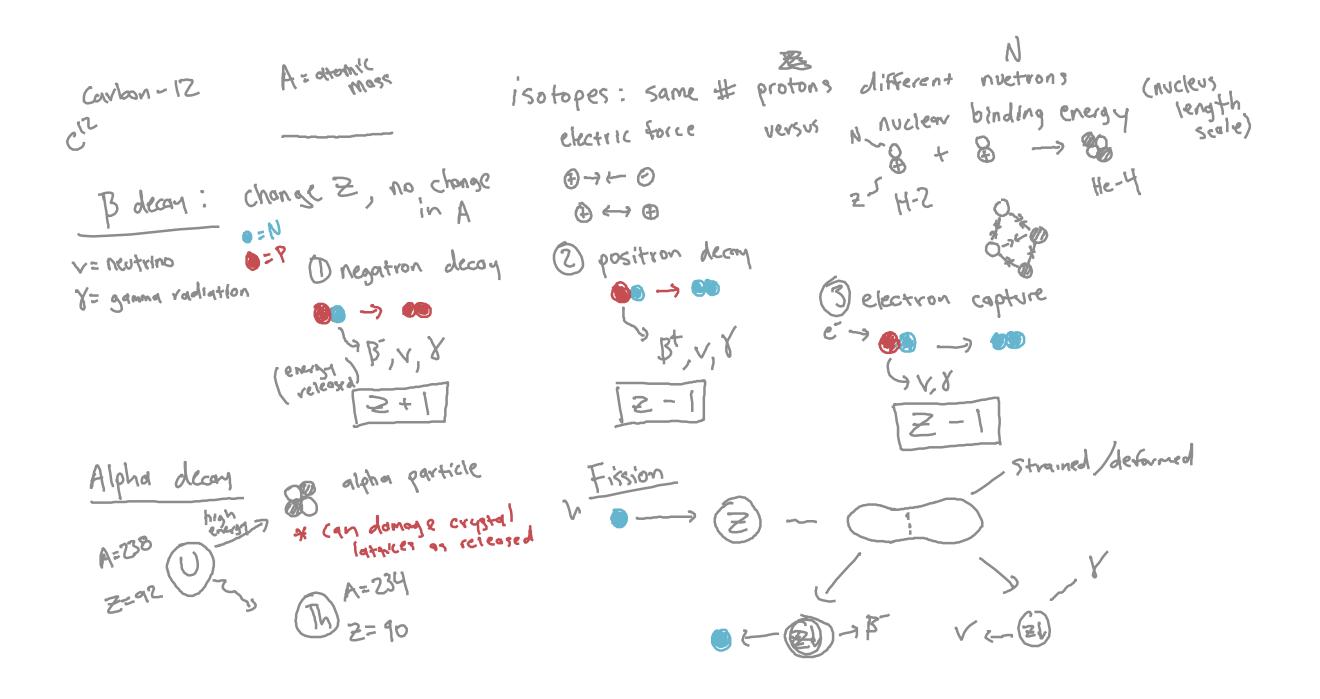
- 1. Mechanisms
- 2. The decay equation

We acknowledge and respect the $l \ni k^w \ni j \ni n$ peoples on whose traditional territory the university stands and the Songhees, Esquimalt and $W S \land N E$ peoples whose historical relationships with the land continue to this day.





Mechanisms of radioactive decay.



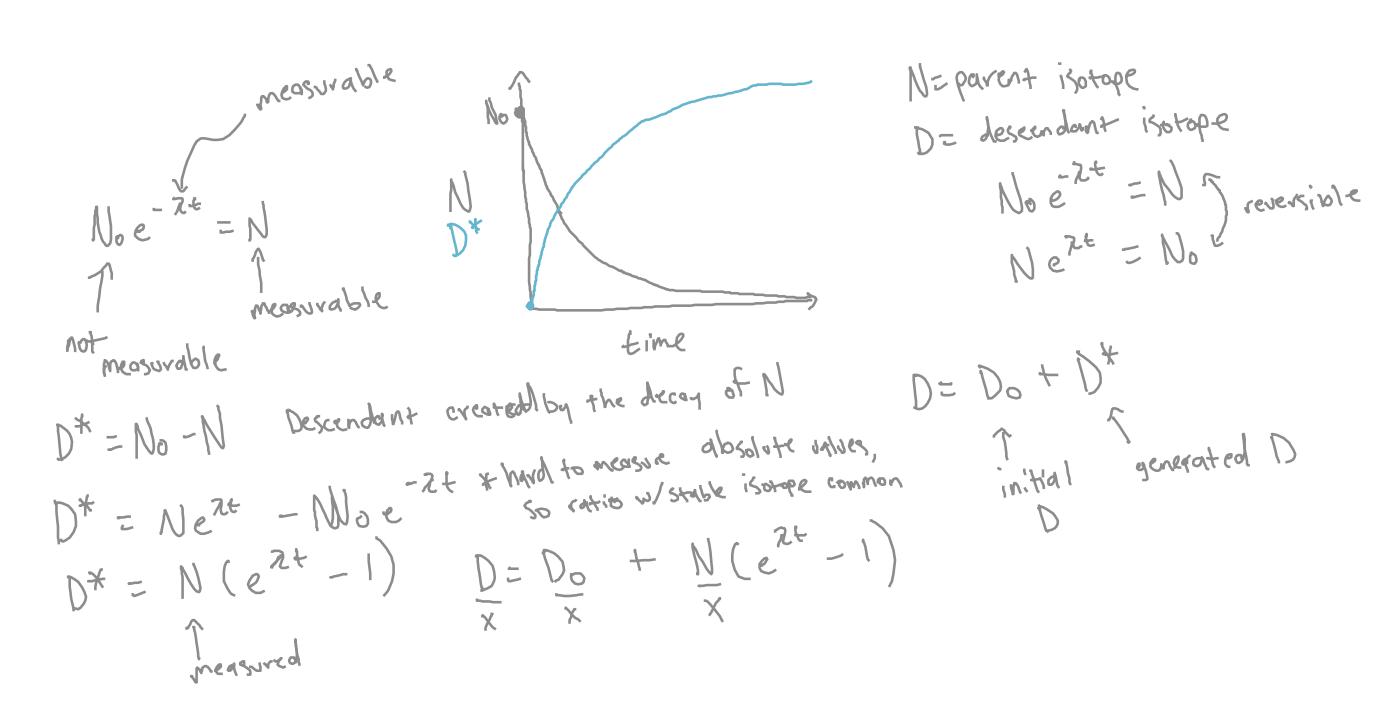




The decay equation.

RutherFord + Soldy 1902
$$N=$$
 number of moles of an isotope $\frac{dN}{N}=\int -2dt$ $\ln x \ln dt$ $dx + 2dt$ $dx + 2dt$

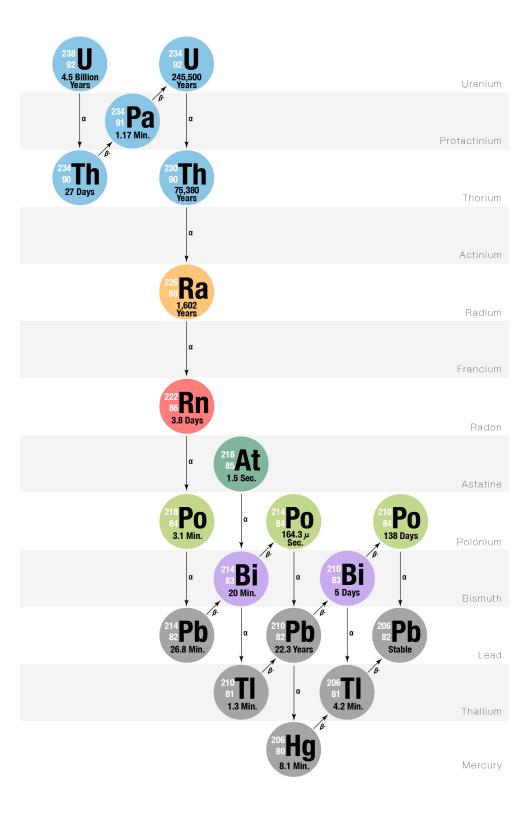
The decay equation.





Half life

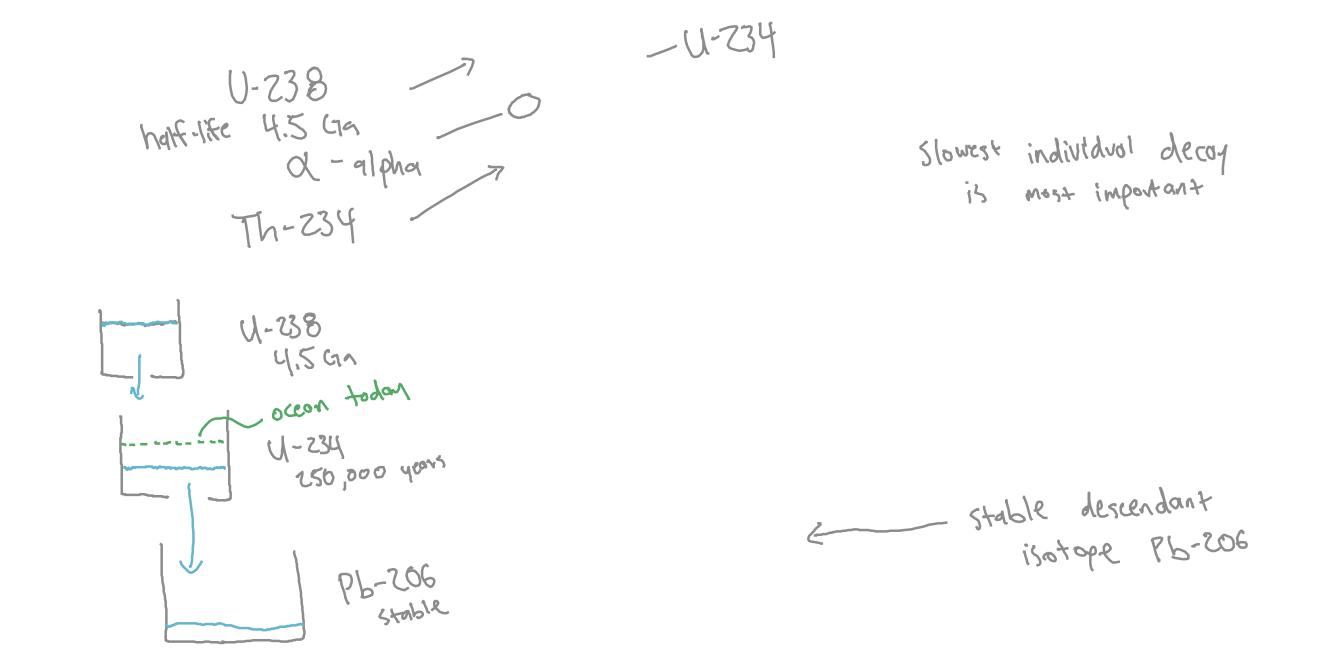






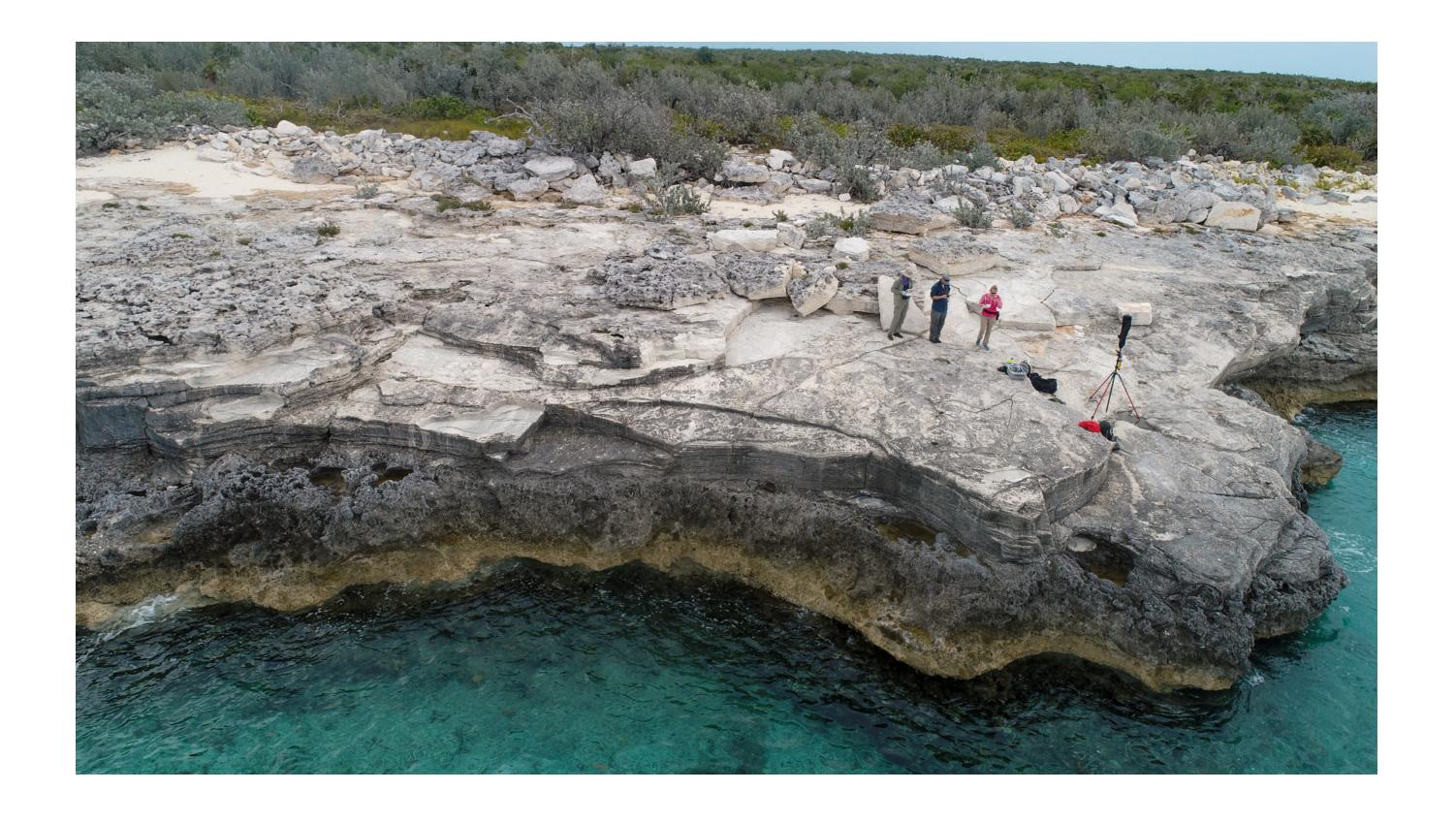


U-Series dating of corals













Isochrons

