



Australian Government



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Established at the Australian Nuclear Science and Technology Organisation (ANSTO) in 1991, we offer AMS services and collaborative arrangements to Australian and international researchers in a wide range of applications.

### Capabilities

- Designed for Multi-isotope analysis with high precision and high throughput.
- $^{10}\text{Be}$ ,  $^{14}\text{C}$ ,  $^{26}\text{Al}$ ,  $^{129}\text{I}$  and  $^{236}\text{U}$  are routinely analysed.
- A suite of chemistry laboratories for sample processing and target preparation for a wide range of sample types.
- Stable isotope analysis ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ).

### Current Applications

- Radiocarbon dating
- Geological exposure dating
- Nuclear safeguards

### We specialise in

- Small radiocarbon sample size
- Atmospheric carbon dioxide analysis
- High sensitivity actinide analysis

### To find out more contact

ANTARES AMS Facility  
Australian Nuclear Science and Technology Organisation  
PMB 1, Menai NSW 2234, AUSTRALIA  
[antares.ams@ansto.gov.au](mailto:antares.ams@ansto.gov.au)  
[www.ansto.gov.au/ansto/environment1/ams](http://www.ansto.gov.au/ansto/environment1/ams)

$^{129}\text{I}$

$^{26}\text{Al}$

$^{10}\text{Be}$

$^{14}\text{C}$

$^{236}\text{U}$

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# Radiocarbon

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