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NENIMF: Current Applications

The following procedures have been established and presently operational at NENIMF:

Applications operational on routine basis

a. U-Pb, Th-Pb chronology of zircon and monazite (O^-/O_2^- primary beam)
b. Ti contents in zircon and quartz for thermometry (O^-/O_2^- primary beam)
c. Boron isotopes in silicate glasses (O^-/O_2^- primary beam)
d. Sr/Ca and Ba/Ca of marine carbonates (O^-/O_2^- primary beam)
e. B/Ca and B isotope analysis of marine carbonates (Cs^+ primary beam)
f. Concentrations of H2O, CO2, F, Cl and S in silicate glasses (Cs^+ primary beam)
g. Isotopic composition of sulfur in silicates and sulfides (Cs^+ primary beam)

Applications operational but requiring improvement

a. Isotopic composition of Pb in silicate glass and K-feldspars (O^-/O_2^- primary beam)
b. Isotopic composition of oxygen in silicate, oxide and carbonate minerals (Cs^+ primary beam)
c. Isotopic composition of chlorine in minerals and glasses (Cs^+ primary beam)
d. Isotopic composition of carbon in carbonate (Cs^+ primary beam)

Mg isotopes in marine carbonates are among high priority technical developments to be completed in the near future.

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