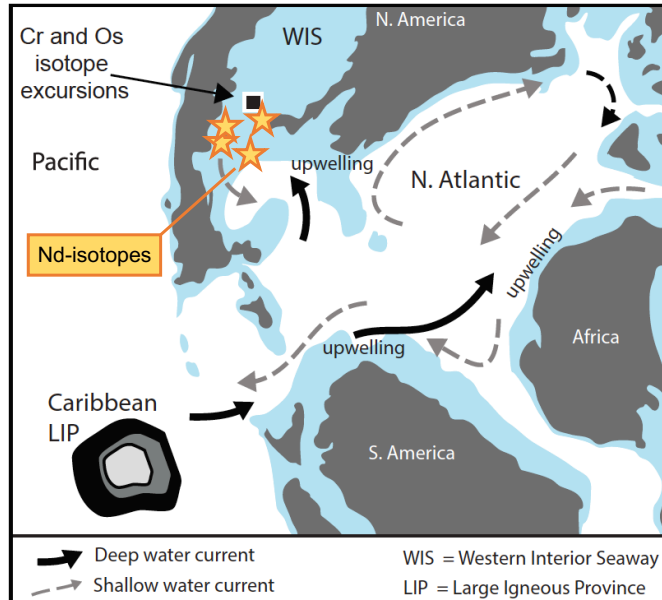


## Volcanism and OAE 2



Evidence for LIP volcanism before/ during OAE 2

- Os and Cr isotope excursions in WIS (USGS Portland #1 Core, Holmden et al, GCA, 2016)

How did LIP-derived nutrients make their way through the ocean?

→ new Nd-isotope data from fish debris

Holmden et al, GCA, 2016

## Neodymium isotopes Western Interior Seaway

Positive  $\epsilon_{Nd}(t)$  shift in the WIS during OAE 2

→ Nd input through either High Arctic or Caribbean LIP

$\epsilon_{Nd}(t)$  pattern suggests incursion from the south

