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inlet and the reactor with an ice surface at -24 °C. No change in concentration is observable, showing that the reactor is gas tight. In Figure 2 HONO is led through the gas inlet only at -30 °C. An uptake of HONO to the Teflon is visible, but the signal stabilizes after 30 min.

Investigating the uptake of trace gases into grain boundaries of ice



experiment directly.

zone refining process.

Zone refining:





Poly-crystalline ice



Results: