(a) $\delta^{15}$N-NO$_3$ (‰)

(b) $\delta^{15}$N-NO$_3$ (‰)

(c) $\delta^{30}$Si(OH)$_4$ (‰)

(d) $\delta^{30}$Si(OH)$_4$ (‰)

- $\epsilon = 5$‰
- $\epsilon = 2$‰
- $\epsilon = 1$‰

- reactant (closed)
- reactant (open)
- JR17005
- FS2018
- in mixed layer

(e) $\epsilon = 5$‰
(f) $\epsilon = 2$‰
(g) $\epsilon = 1$‰