

1.1. Waar komt het water in de oceaan vandaan?

Auteurs: Floris van der Tak en Ewine van Dishoeck

Literatuur

Peck, W.H., Valley, J.W., Wilde, S.A., Graham, C.M. (2001). Oxygen isotope ratios and rare earth elements in 3.3 to 4.4 Ga zircons: Ion microprobe evidence for high $\delta^{18}\text{O}$ continental crust and oceans in the Early Archean. *Geochim. Cosmochim. Acta* 65(22), 4215-4229.

Piani, L., Marrocchi, Y., Rigaudier, T., Vacher, L.G., Thomassin, D., Marty, B. (2020). Earth's water may have been inherited from material similar to enstatite chondrite meteorites. *Science* 369 (6507), 1110-1113; [DOI: 10.1126/science.aba1948](https://doi.org/10.1126/science.aba1948)

Van Dishoeck, E.F. & Van der Tak, F.F.S. (2022). Water: routekaart van wolk naar planeet. *Zenit* 49 (juni), <https://zenitonline.nl/product/zenit-juni/>

Van Dishoeck., E.F. et al. (2021). Water in star-forming regions: Physics and chemistry from clouds to disks as probed by Herschel spectroscopy. *Astronomy & Astrophysics* 648 (April), A24.

Persbericht: [Langverwacht artikel onthult reis van water van interstellaire wolken tot leefbare werelden.](#)