

# Hydrothermal System Modeling

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1. 1983 [25] An Analysis of the hydrothermal system...

This is the basic physical and chemical (oxygen isotopic) model. Justifies T-control of permeability, discusses ocean ridge advection, presents diffusion halo and equilibrium alteration control, etc.

2. 1990 [33] Scales and effects of fluid flow in the upper crust

This is a short summary paper of the kinds of fluid flow that occur in the earth's crust. Not directly on point but perhaps interesting and readable.

3. 1993 [49] A capless 350C flow zone model....

This describes the model I initially went to Oman to test.

4. 1993 [46] Oxygen isotope alteration in the Noranda Mining District....

This describes a detailed oxygen isotopic alteration examination of the Noranda mining camp

5. 2005 [97] Fluid flow and petroleum and mineral resources in the upper (<20 km)...

Comprehensive review of fluid flow and continental crust resources.

6. 2007 [104] How potassium silicate alteration suggests....

An example of what can be done with alteration halos.

7. 2010 [114] What mid-ocean ridges tell us about volcanogenic massive sulfide deposits

Review paper directly related to Oman study.