Meeting 15/06/2020

* focus one Paper 1 using borehole model of diffusive heat transfer only:
  + show how depletion is balancing with available recharge
  + compare with 3D models of diffusivity
  + conclusion of paper: need storage, how does storage look like? How waste heat can be captured to recharge the system? 🡪 Need to quantify wasted heat from i.e. ACF (how much heat is wasted from there? = 98% heat used as low great energy source) or incinerators.
  + See thinks in terms of available energy rather than system efficiency. BHE heat extraction might be overrated because we need recharge and think about the whole cycle of heat.
  + See if considering only diffusive is a may to define a “worst case scenario?”
* test later how does it make a difference in 2D for diffusive heat transport? Temperature at a BHE = superimposition of diffusive heat transfer (temperature of rock) and fluid flow. How does the BHE dimension vs flow rate impact total heat extract?
* What is the nature of the energy extracted? From rock or water? Is the contribution from the water flow realistic compared to what can geologically happened?
* send RHP model to Chris
* address Gus feedback, then send new paper version to Chris and Stuart and think about figures & things to model

<https://www.ed.ac.uk/information-services/research-support/research-data-service/during>

<https://www.ed.ac.uk/information-services/computing/desktop-personal/datasync>

<https://www.sciencedirect.com/science/article/pii/S1364032117314314>

<https://e360.yale.edu/features/waste-heat-innovators-turn-to-an-overlooked-renewable-resource>