This data folder includes the following contents:

(1) Equivalent pore size distribution curves for 14 soil samples;

(2) A detailed list of all parameters used in the model, including inversion parameters, process-related parameters, and fixed constants;

\*Sample names and corresponding data sources for each parameter file as follows:

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| Name | Reference |
| Aggregated glass beads drying | Topp and Miller, 1966. |
| Clay Loam | Pachepsky et al, 1984. |
| Gilat Loam | Mualem, 1976b. |
| Grenville silt loam | Mualem, 1976b. |
| Heavy clay | Minasny and Field, 2005. |
| Hupsel sand | Nemes et al, 2001. |
| Minasny Sand | Minasny and Field, 2005. |
| Pachapa Fine Sandy Clay | Mualem, 1976b. |
| Pachepsky Sand Loam | Pachepsky et al, 1984. |
| Poederlee loamy sand | Nemes et al, 2001. |
| Rehovot Sand | Mualem, 1976b. |
| Silt Loam | Pachepsky et al, 1984. |
| Sand 4650 | Nemes et al, 2001. |
| Sandy loam 4031 | Nemes et al, 2001. |