HydroCalculator 1.03 Batch conversion

for updates check the website: http://hydrocalculator.gskrzypek.com

General description

This is an advanced batch conversion option allowing processing simultaneously several data records. The input data table has to be prepared in advance following the template file provided (inputdata.csv). The batch conversion is returning results for both steady state and non-steady state models; it is up to the users to determine which one is applicable to their data record.

- 1. Select an input data file prepared following template input data.csv
- 2. Press calculate batch
- 3. Select folder and name for saving the output file

Batch conversion template

Do not alter the heading line with descriptions in the inputdata.csv.

Input data

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opc - option for \delta_A determination:
          1 – measured in the field, 2 – based on rain only, 3- based on rain and LEL;
T (temperature °C);
h (relative humidity as a fraction);
d2HP - \delta^2 H_p; d18OP - \delta^{18} O_p;
d2HL - \delta^{2}H_{L}; d18OL - \delta^{18}O_{L};
d2HA - \delta^2H<sub>A</sub> (if known); d18OA - \delta^{18}O<sub>A</sub> (if known);
d2HR - \delta^2 H_{Rain}; d18OR - \delta^{18} O_{Rain};
LEL - slope of Local Evaporation Line (if known)
Output data
Result_EI_H – E/I results for steady state model based on \delta^2H
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Result_EI_O - E/I results for steady state model based on \delta^{18}O
Result f H – f results for non-steady state model based on \delta^2H
Result_f_O - f results for non-steady state model based on \delta^{18}O
d2HA - ambient air moisture for \delta^2H; d18OA - ambient air moisture for \delta^{18}O;
EkH - \varepsilon_k for \delta^2H; EkO - \varepsilon_k for \delta^{18}O;
EplusH - \varepsilon^+ for \delta^2H; EplusO - \varepsilon^+ for \delta^{18}O;
EH - ε for \delta^2H; EO - ε for \delta^{18}O;
CkH - constant for \delta^2H; CkO - constant for \delta^{18}O;
aH – \alpha^+ for \delta^2H; aO - \alpha^+ for \delta^{18}O;
dstarH – \delta^* for \delta^2H; dstarO – \delta^* for \delta^{18}O;
mH – m for \delta^2H; mO – m for \delta^{18}O;
x – adjusting parameter
opt - ambient air moisture option selected by user;
comment - additional information entered by user
```

For full description of the variables please refer to Table 1. in Skrzypek et al., 2015.