

Table 4: Site specific Young Water Fractions (YWF) .for $\delta^2\text{H}$ and $\delta^{18}\text{O}$ related to their fitting diagnostics

Site	$\delta^2\text{H}$				$\delta^{18}\text{O}$			
	YW F	R ²	p-value	Mean SD (obs - fit)	YW F	R ²	p-value	Mean SD (obs - fit)
Precip	[-]	0.3 3	5.80E-09	12.55	[-]	0.3	7.50E- 09	1.63
UP1	0.14	0.5 2	2.00E-04	1.21	0.22	0.5 6	7.50E- 05	0.23
UP2	0.06	0.2 0	8.00E-02	1.28	0.1	0.2 9	2.00E- 02	0.22
UP3	0.1	0.3 3	4.00E-03	1.82	0.13	0.4 7	2.00E- 04	0.25
DS	0.09	0.3 5	2.00E-03	1.31	0.08	0.2 1	1.00E- 02	0.18
WWTP	0.07	0.2 7	1.00E-02	1.29	0.05	0.1 1	1.90E- 01	0.19
OL	0.08	0.2 6	< 2.2E-16	1.37	0.06	0.1 5	5.80E- 14	0.18