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Supplement of

Distinct stores and the routing of water in the deep critical zone of a snow-dominated volcanic catchment

Alissa White et al.

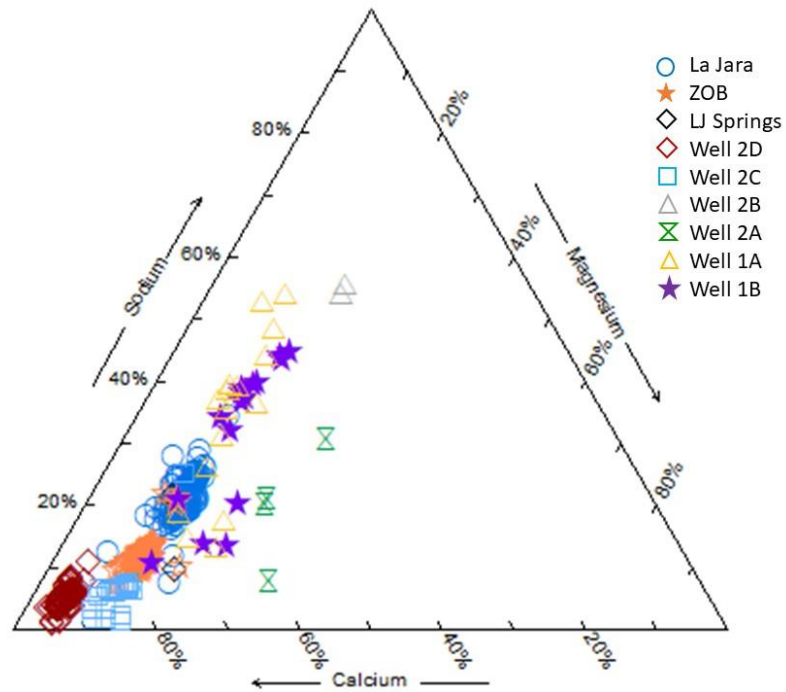
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Well ID	Well Casing Diameter [cm]	Annulus Diameter [cm]	Screened Interval Depth [mbgs]	Vibrating Wire Piezometer (VWP) or Transducer (T) Depth [mbgs]	Total Depth [mbgs]
1A	2.54	9.6	38.7 to 41.7	VWP @ 41.5	41.7
1B	2.54	9.6	31.7 to 37.8	T @ 37.8	37.8
2A	5.08	9.6	42.8 to 45.9	T @ 45.5	47.15
2B	5.08	9.6	34.7 to 37.8	T @ 37.7	39.1
2C	5.08	9.6	24.7 to 30.8	T @ 30.1	30.85
2D	5.08	9.6	3.7 to 6.7	VWP @ 6.4	6.7
3A	2.54	9.6	13.8 to 16.9	VWP @ 15.3	16.85
3B	5.08	9.6	6.8 to 12.9	VWP @ 12.7	12.93

- 1 **Table S1: Completed well dimensions. All screened intervals are 0.051 cm slotted intervals. It is important to**
- 2 **note that VWPs were installed during monitoring well installation while transducers were installed more than**
- 3 **one year after drilling; therefore, only VWPs cover the entire time range of this study.**

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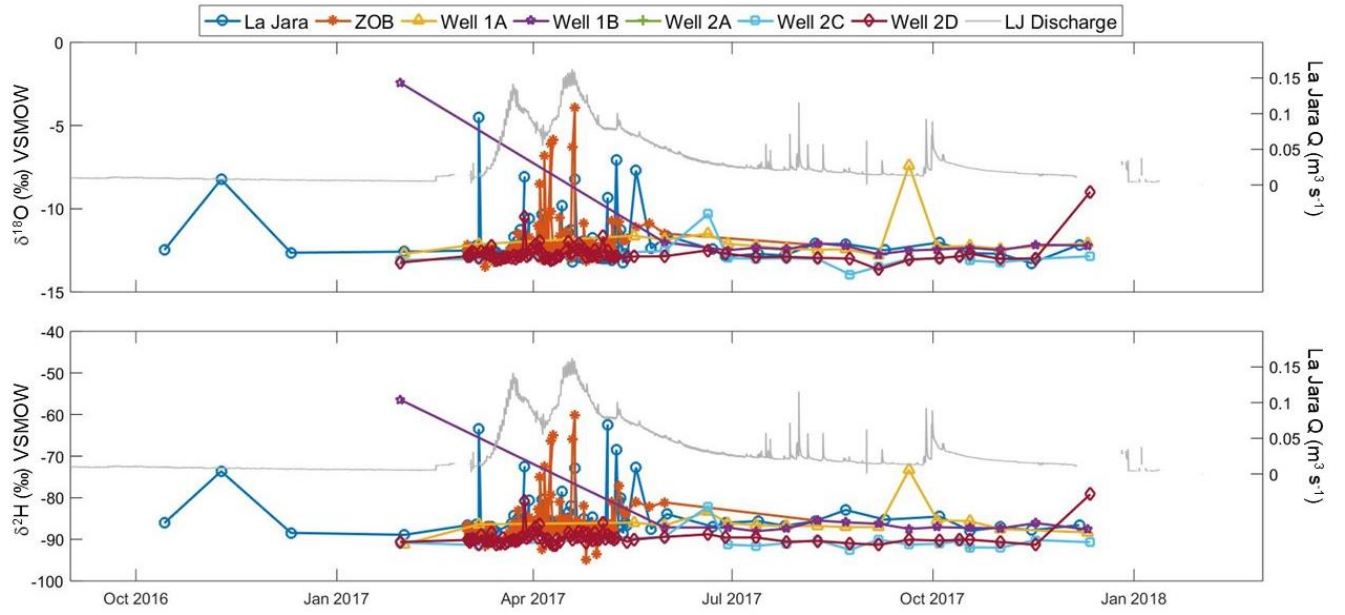


5

6 **Figure S1: Ternary diagram showing percent microequivalents of sodium, calcium, and magnesium. Shallow**
7 **site two groundwaters are calcium dominant while deeper site two groundwater are more of a mix of calcium-**
8 **sodium-magnesium and site one groundwaters have a larger range in composition dominated by calcium and**
9 **sodium. Finally, surface waters from the La Jara flume and La Jara springs are calcium-sodium waters that**
10 **plot in overlapping space with site one groundwaters and have generally slightly greater percentages of sodium**
11 **and less percentages of calcium than ZOB surface waters which overlap in space with site one groundwaters**
12 **and site 2C groundwaters.**

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Figure S2: Time series of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ surface waters and groundwaters plotted with La Jara discharge to indicate timing of shifts in stable water isotope values.