



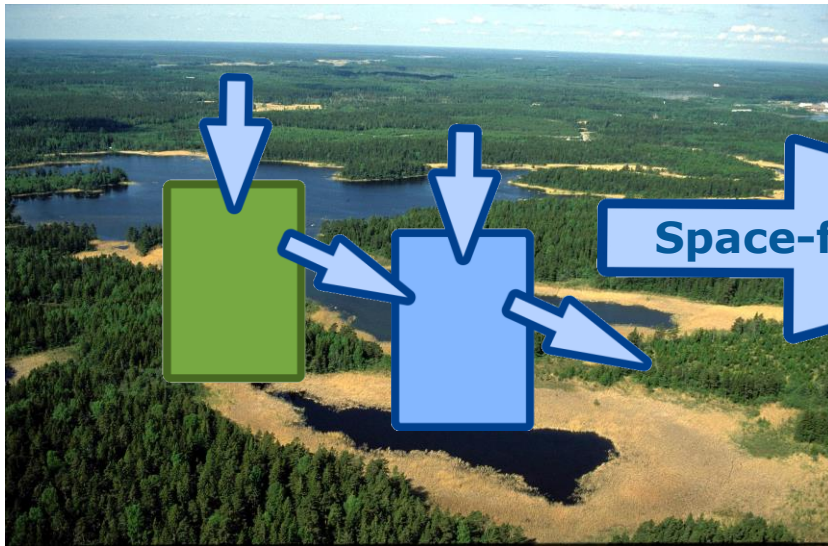
FLUVIAL TRANSPORT IN A PERIGLACIAL ENVIRONMENT

Johan Rydberg

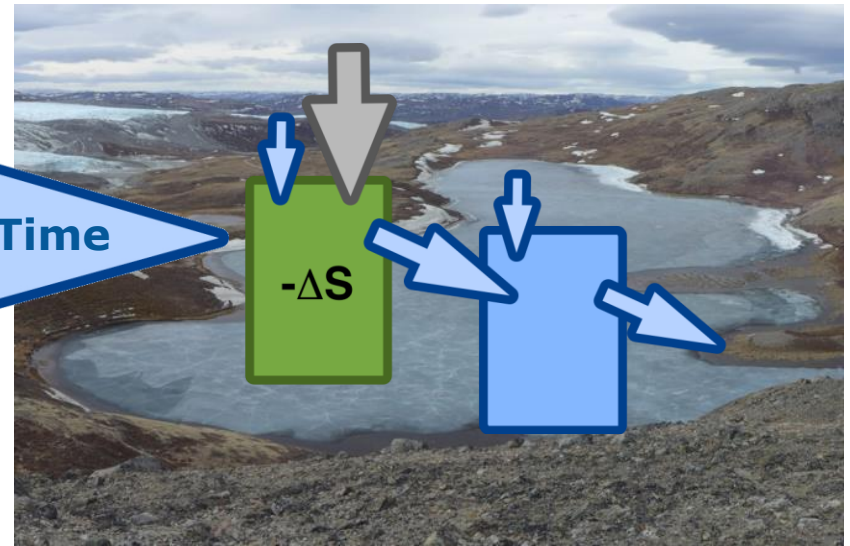


UMEÅ UNIVERSITY

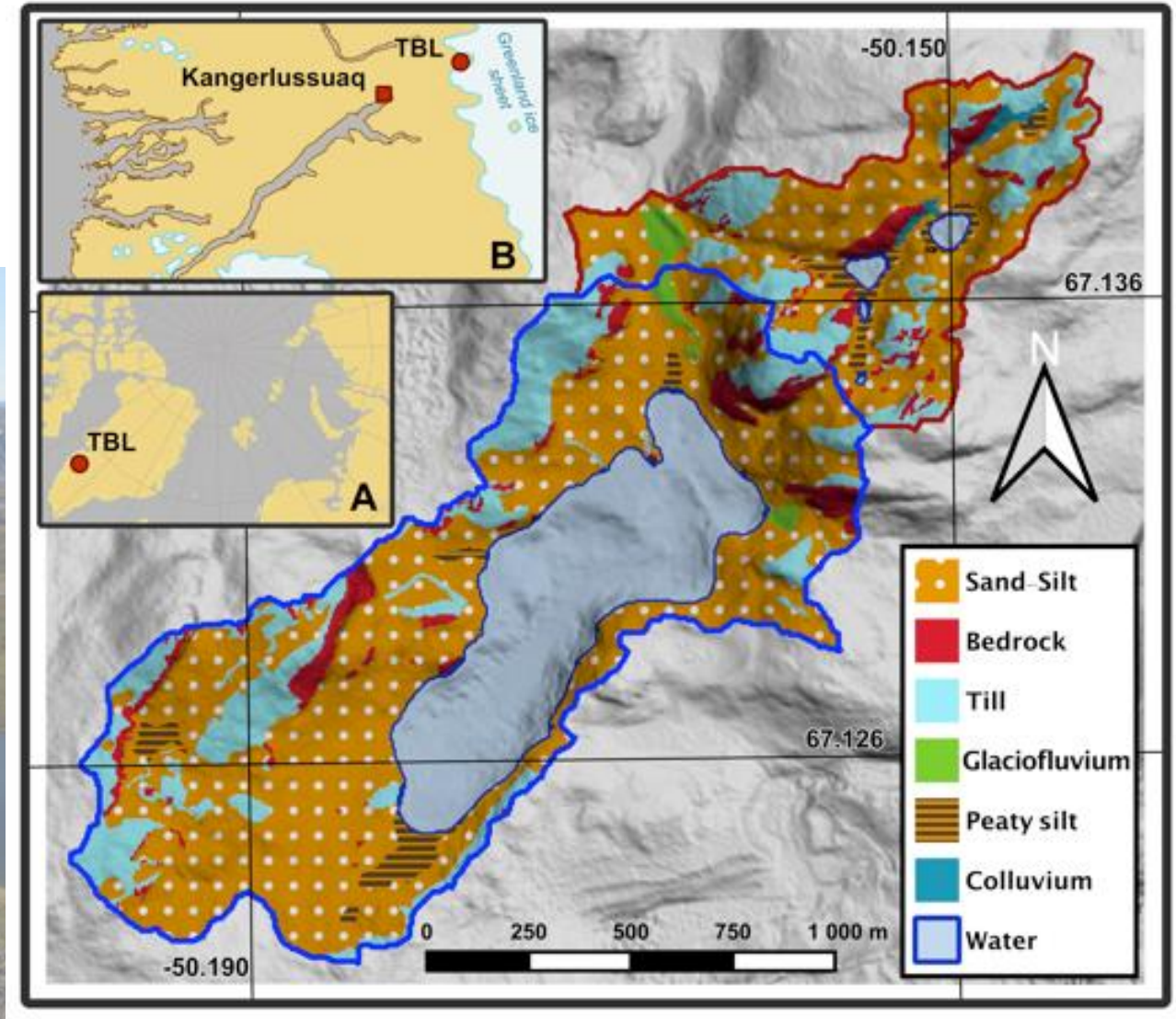
FORSMARK IN THE FUTURE



Present day climate

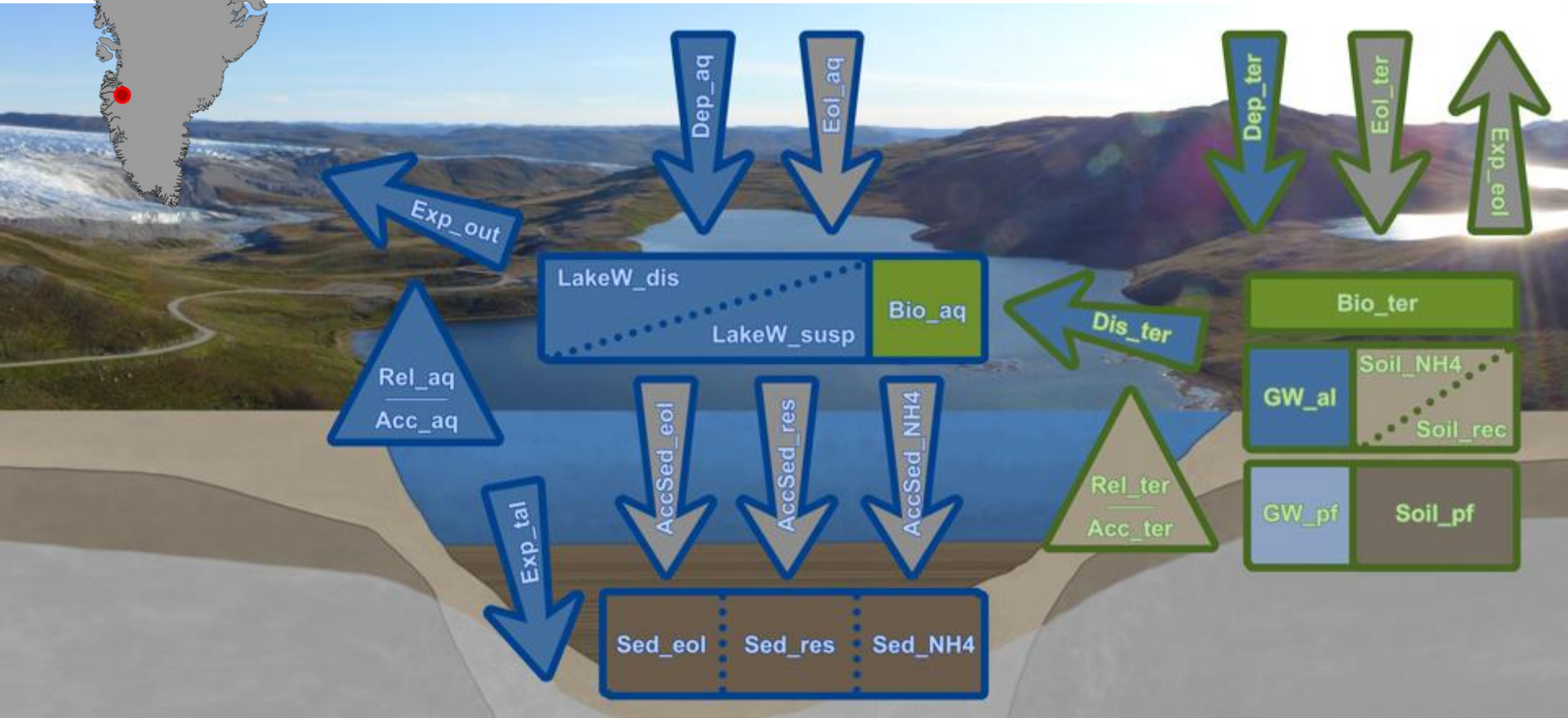


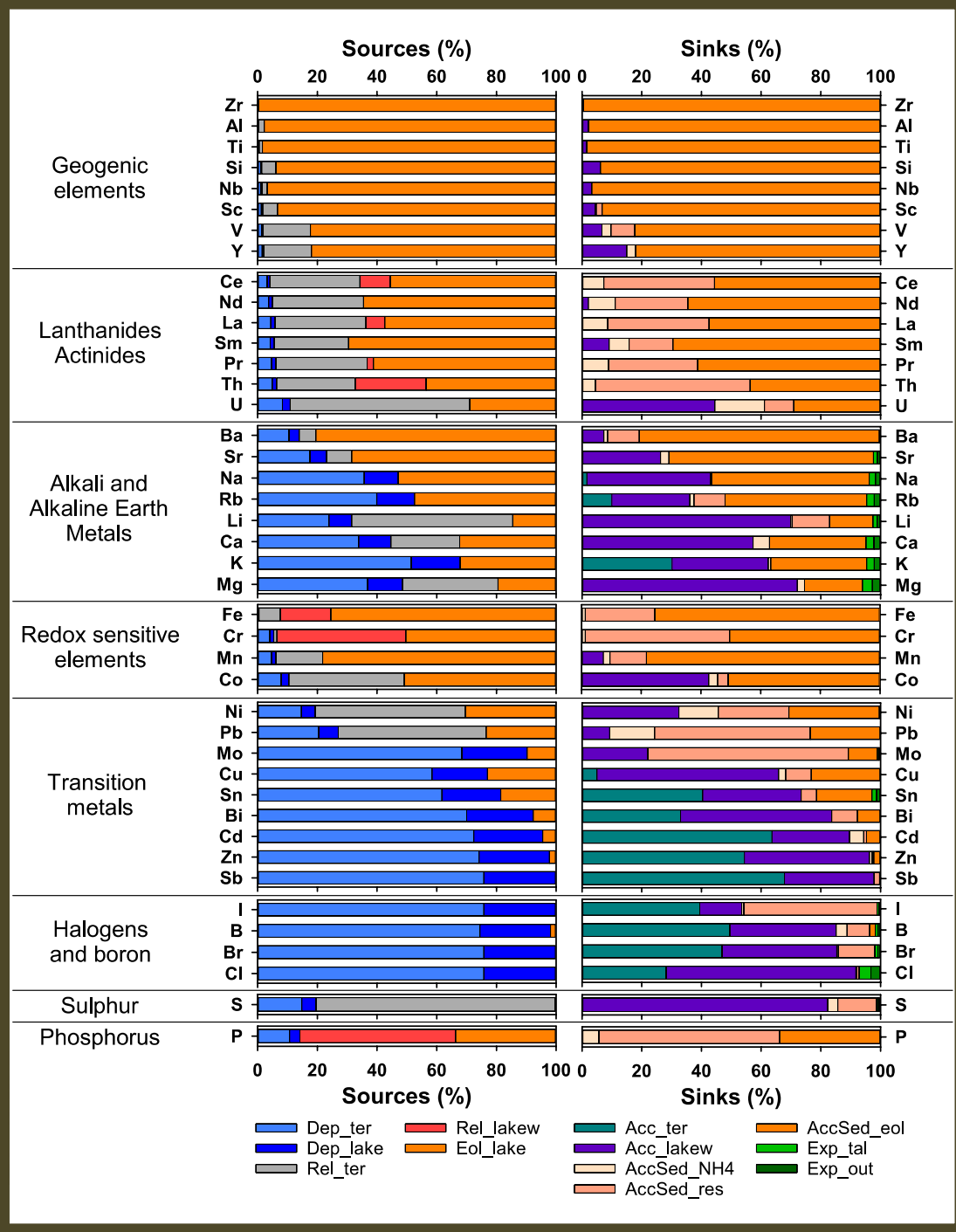
Future periglacial climate

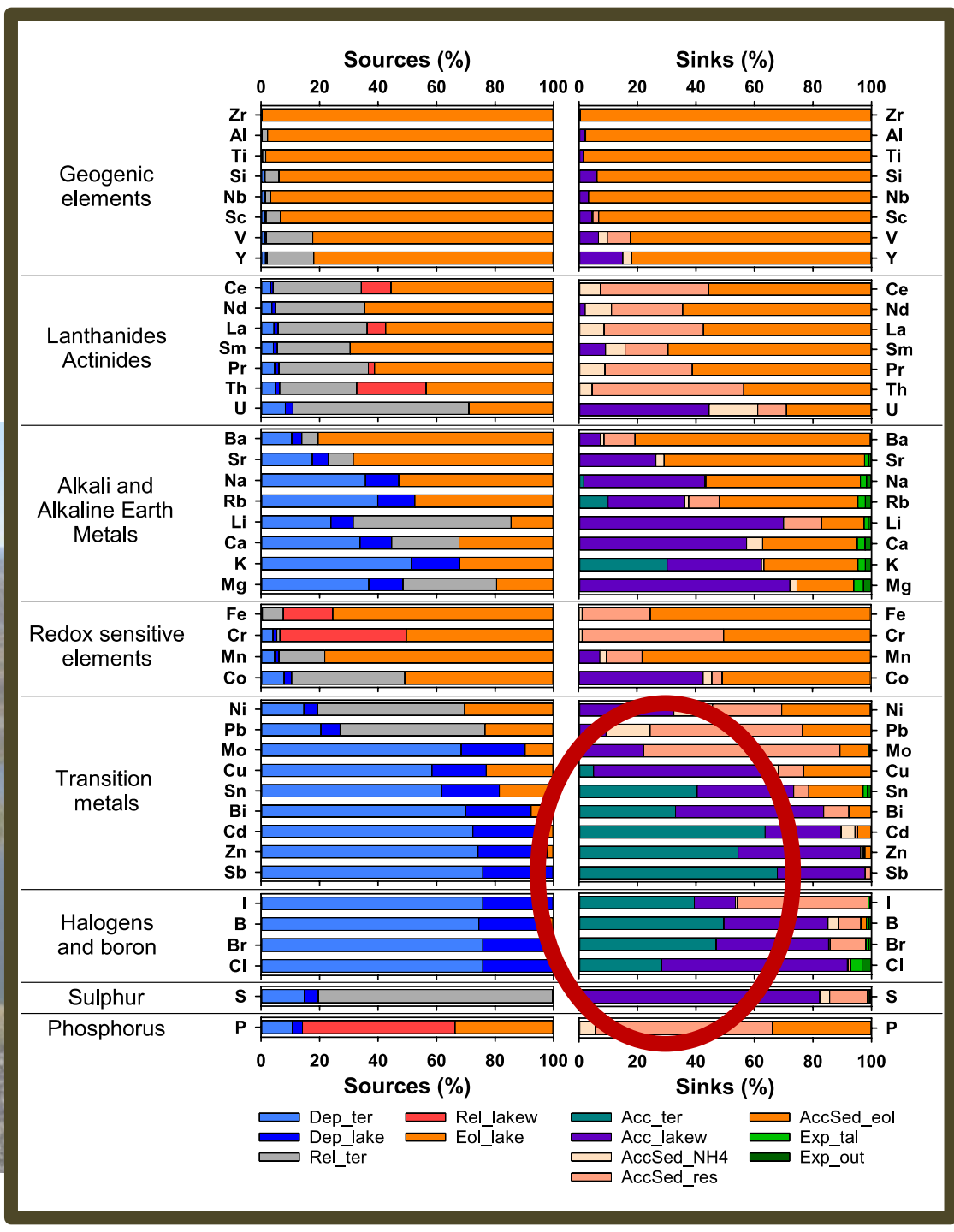


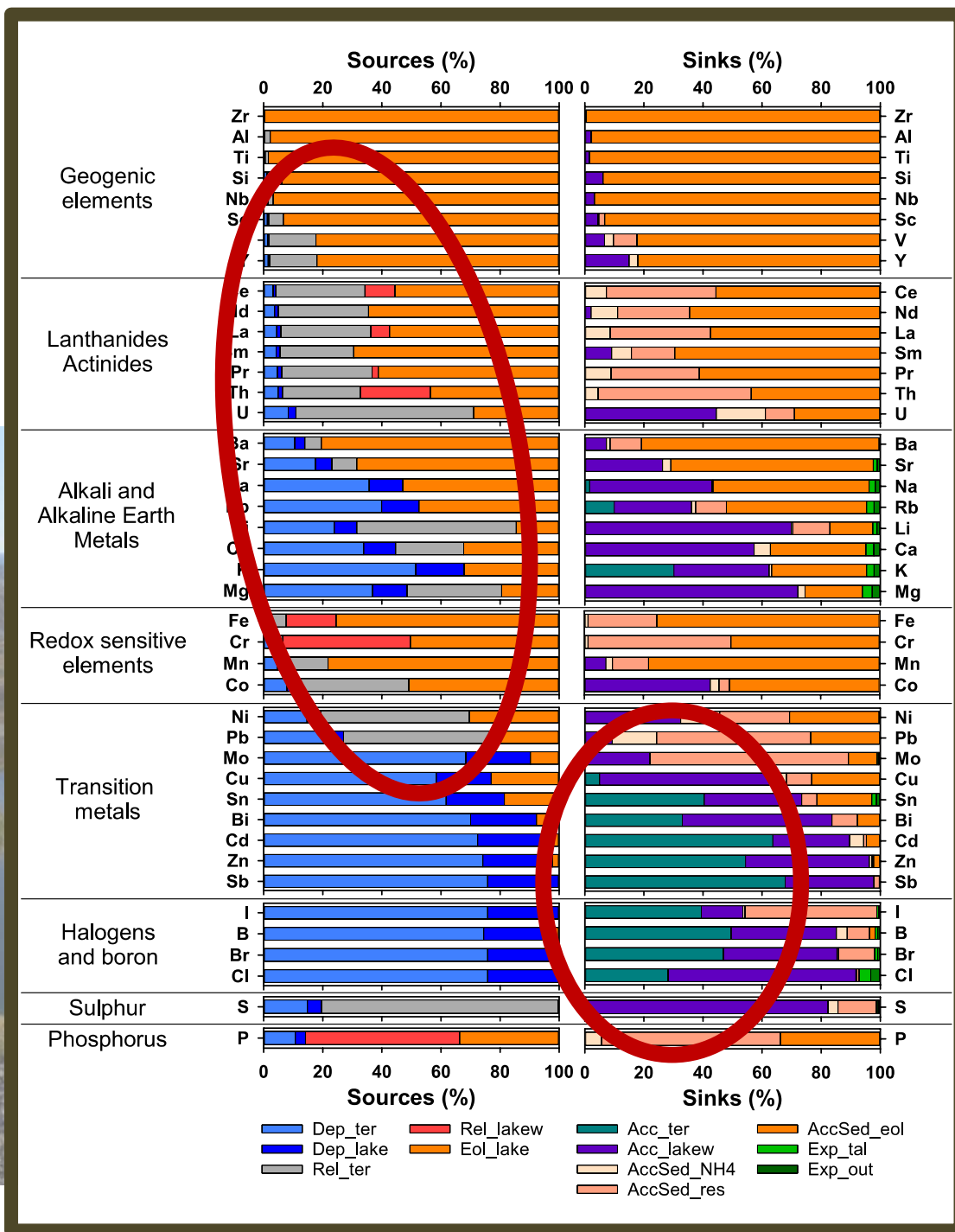


MASS-BALANCE MODEL FOR TWO-BOAT LAKE



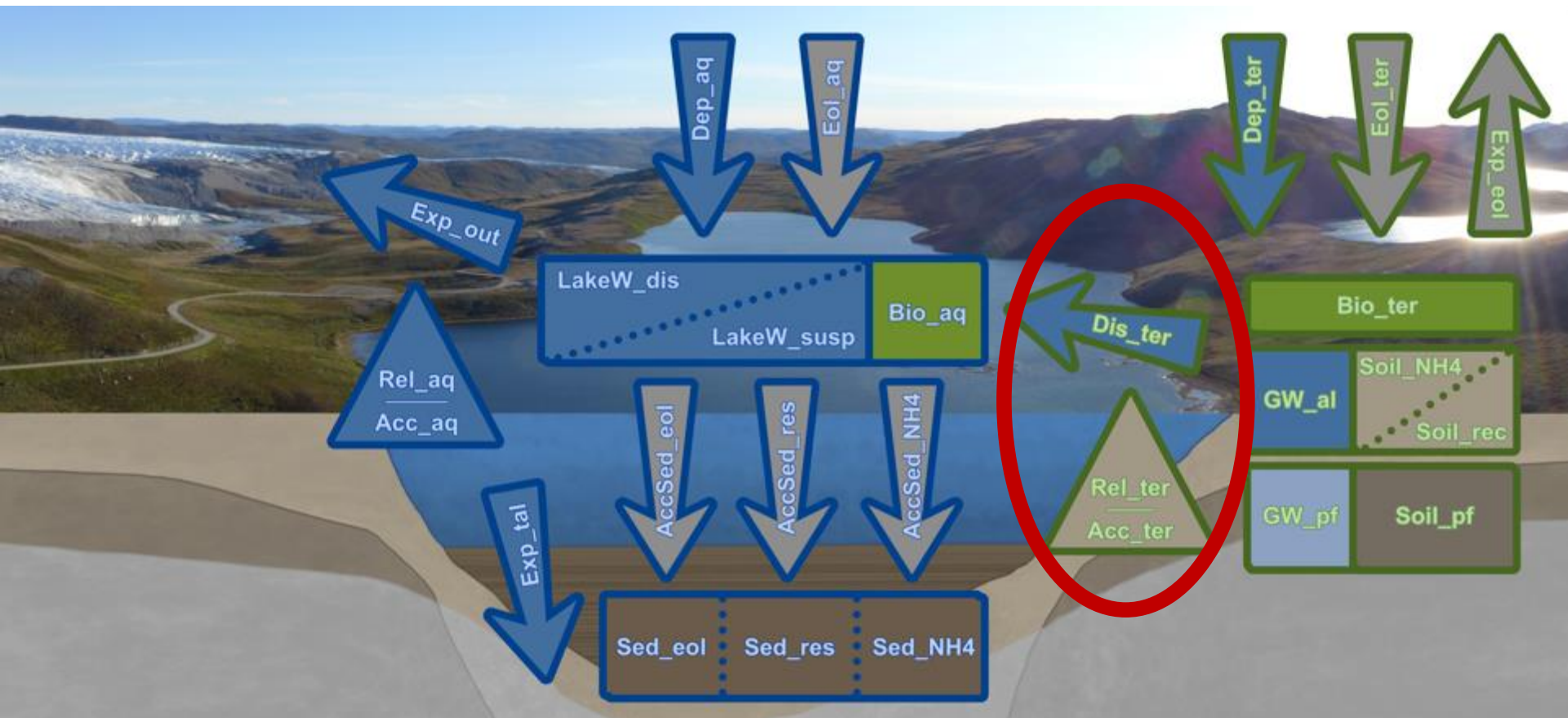








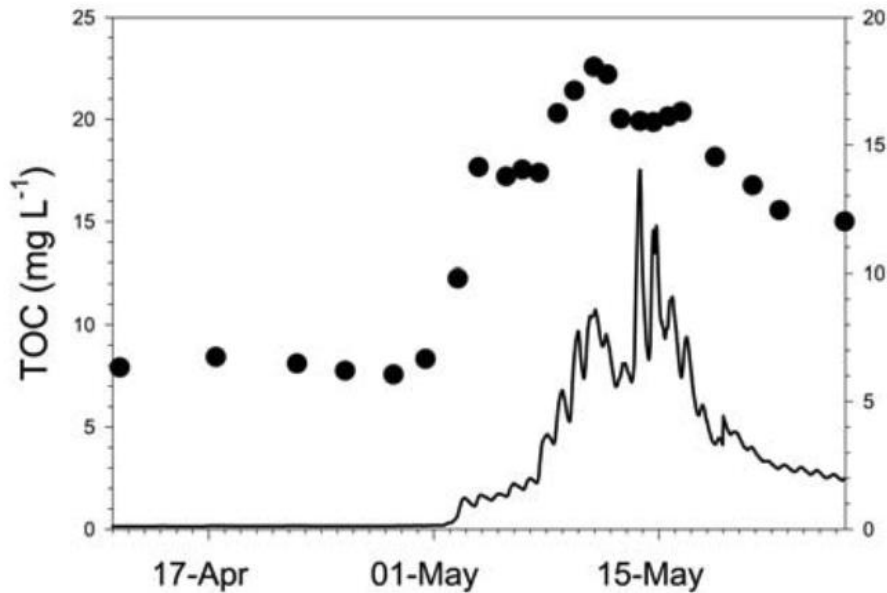
CRITICAL TO GET THE CORRECT TRANSPORT



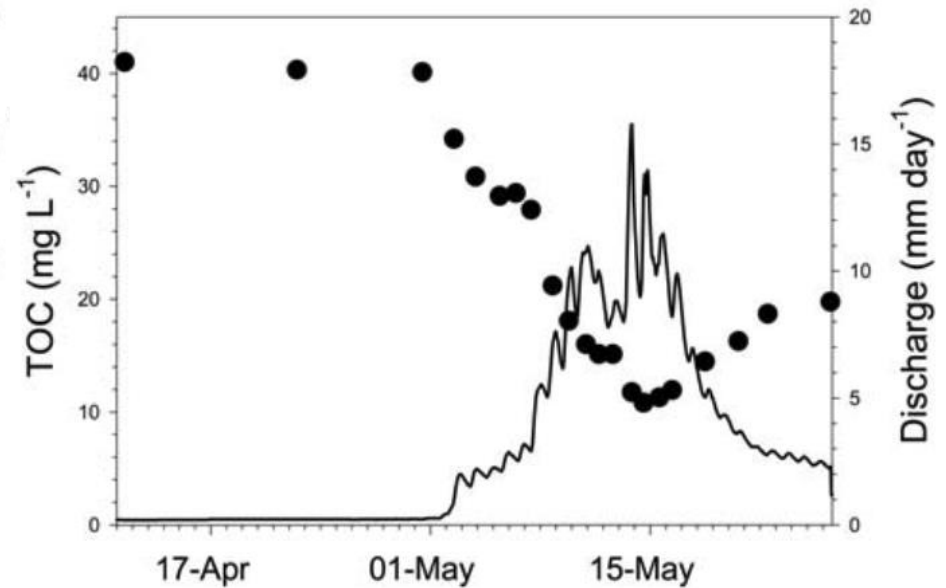


FLOW AFFECTS CONCENTRATIONS

Forested catchment

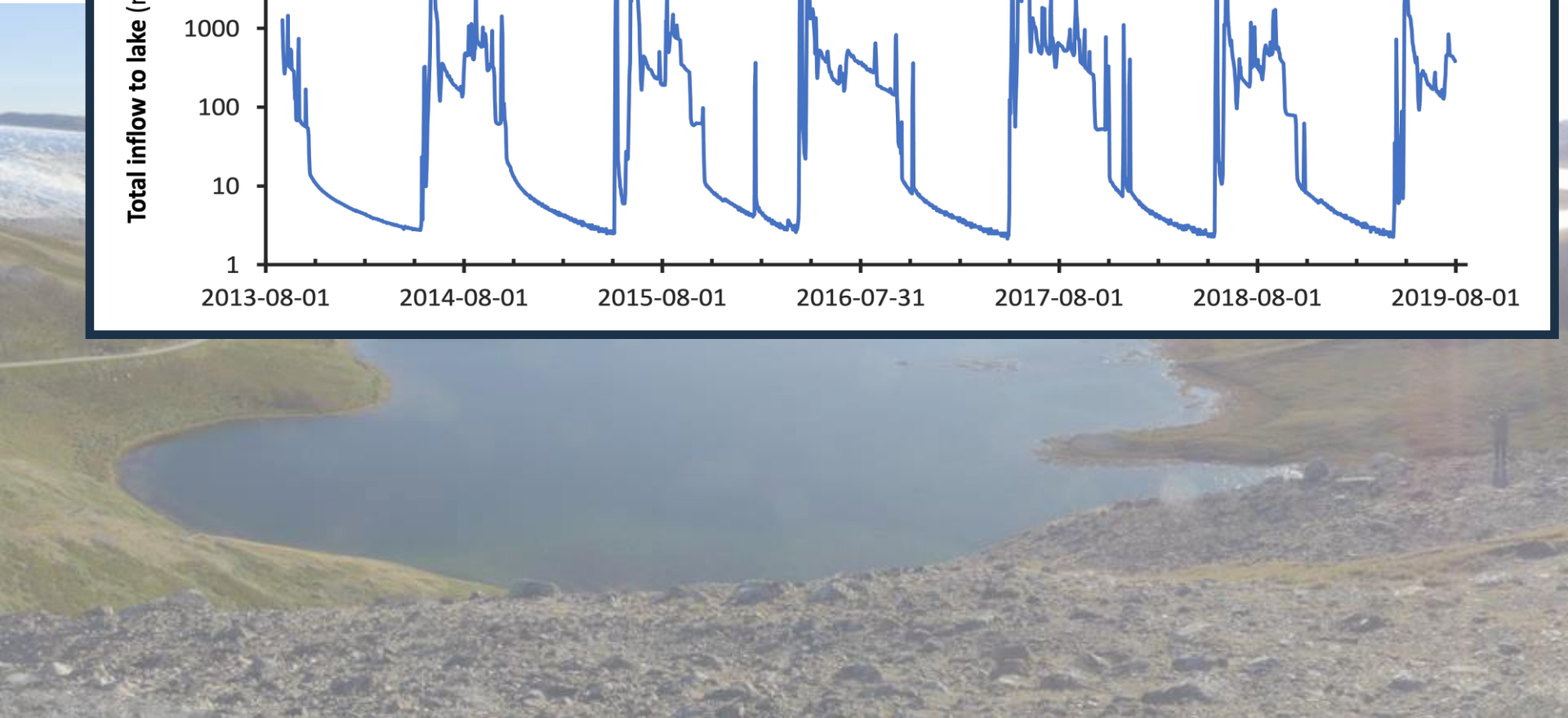
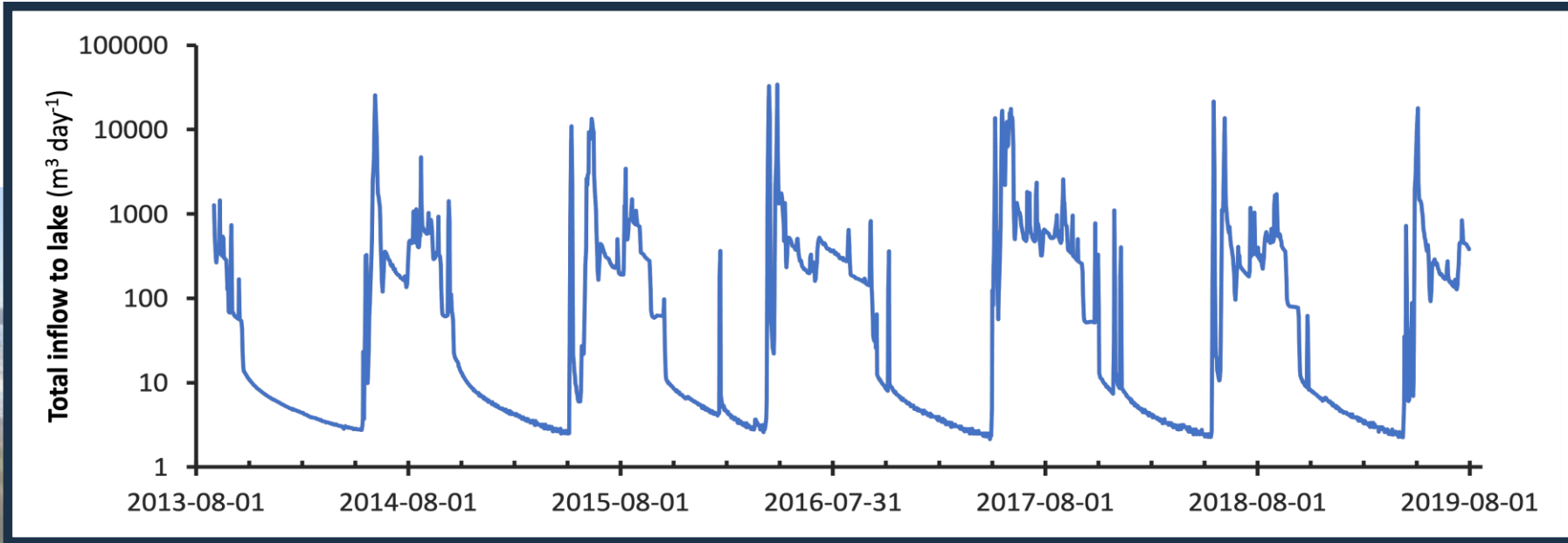


Wetland dominated catchment



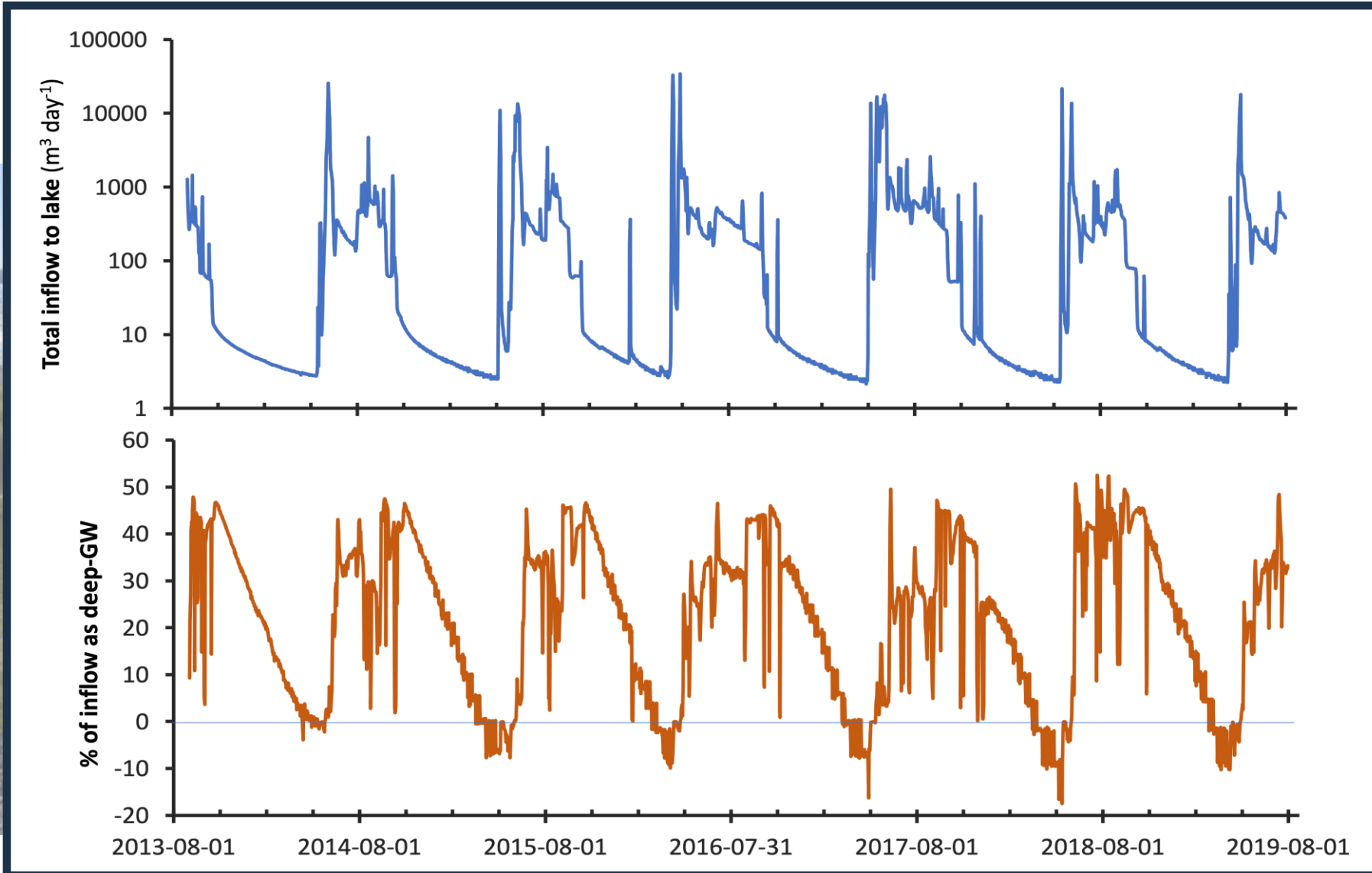


THE FLOW TO TBL VARIES



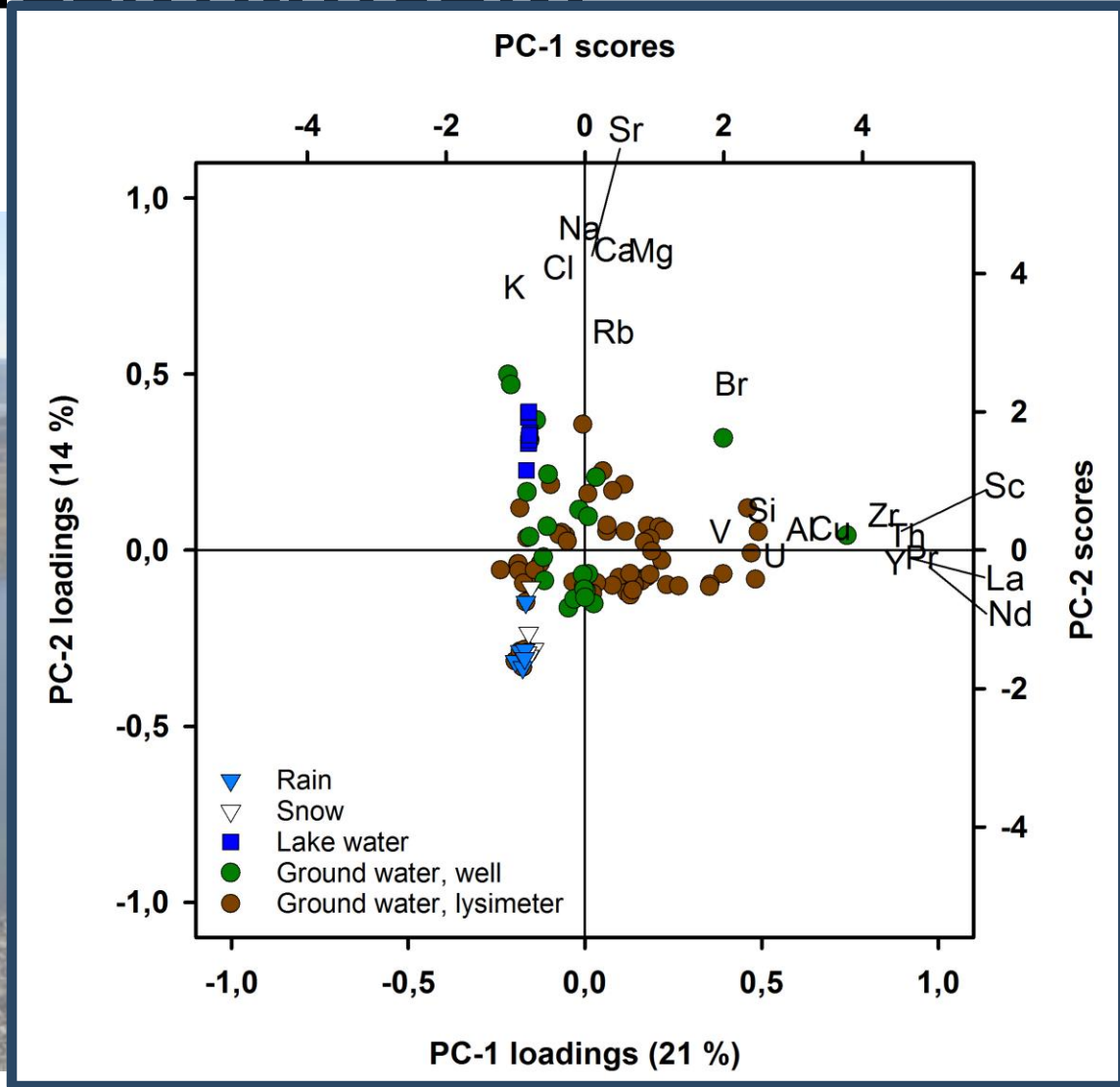


...AS DOES THE SOURCE OF WATER



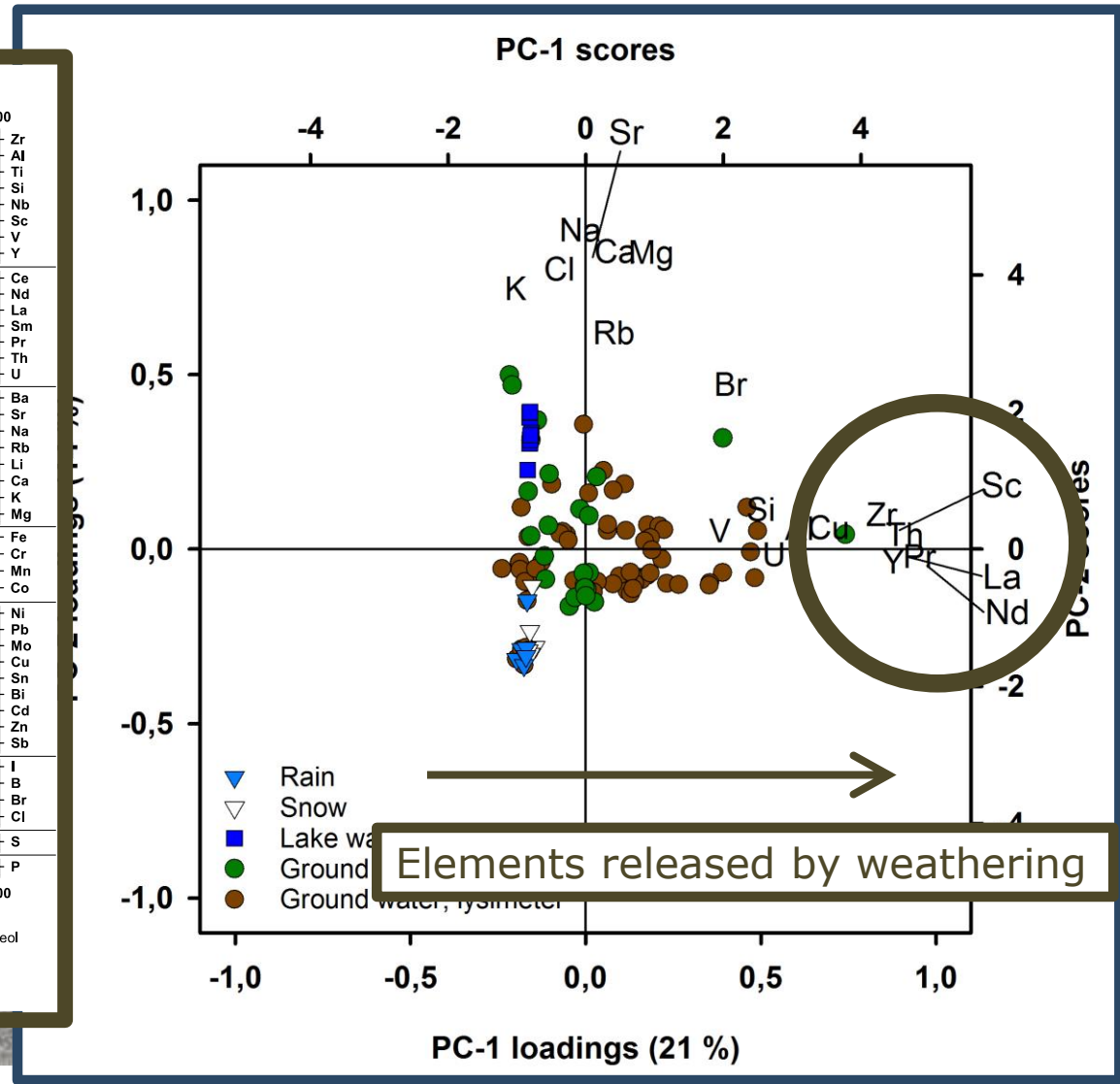
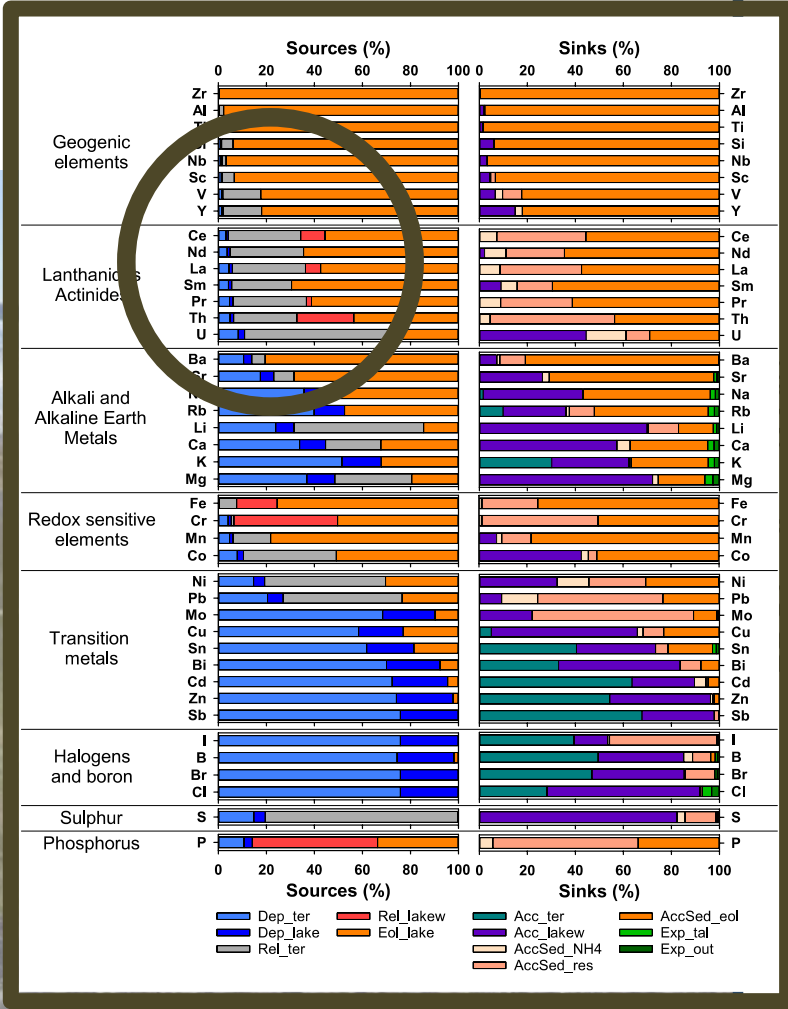


CAN THIS BE LINKED TO CONCENTRATION?



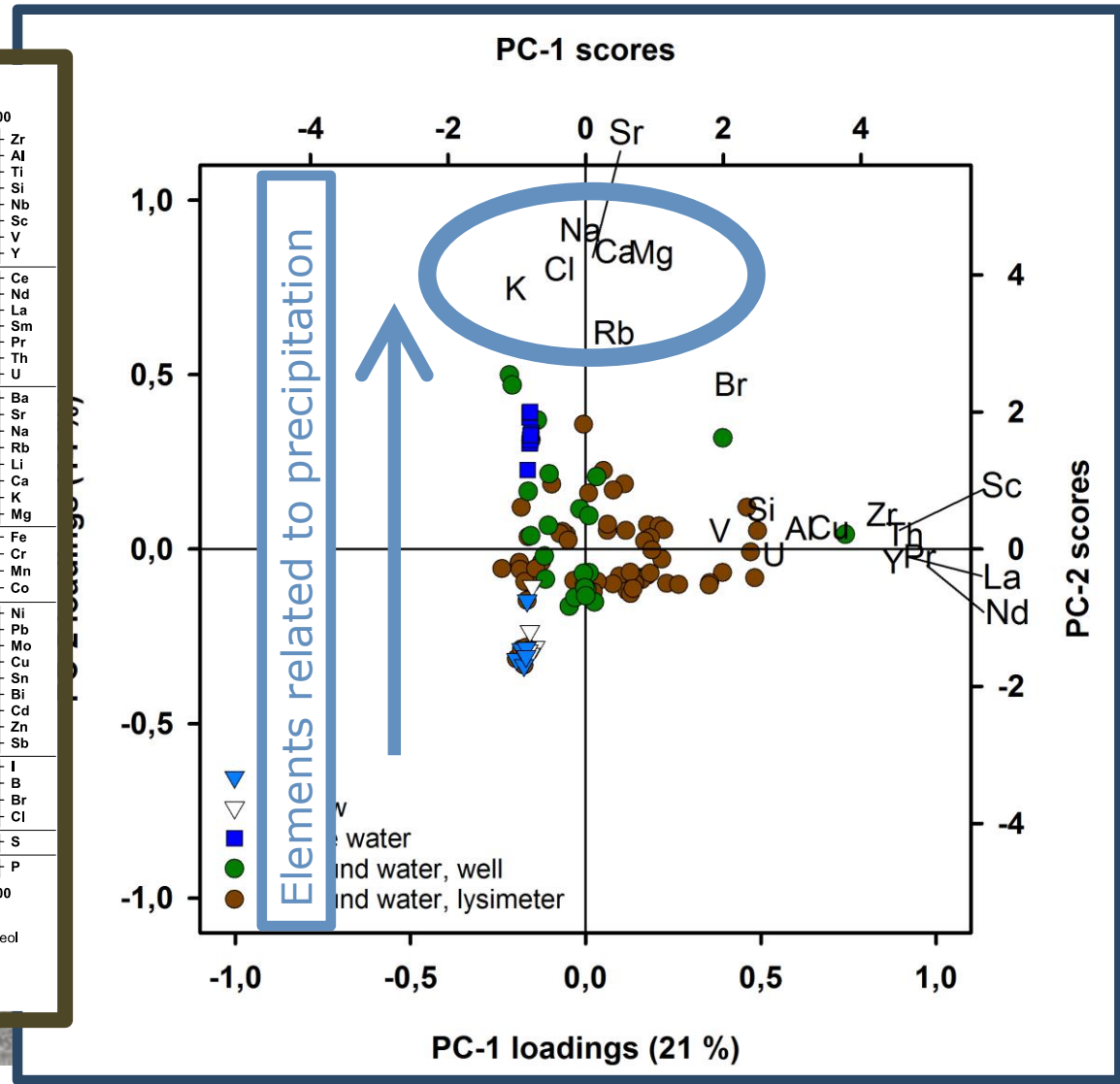
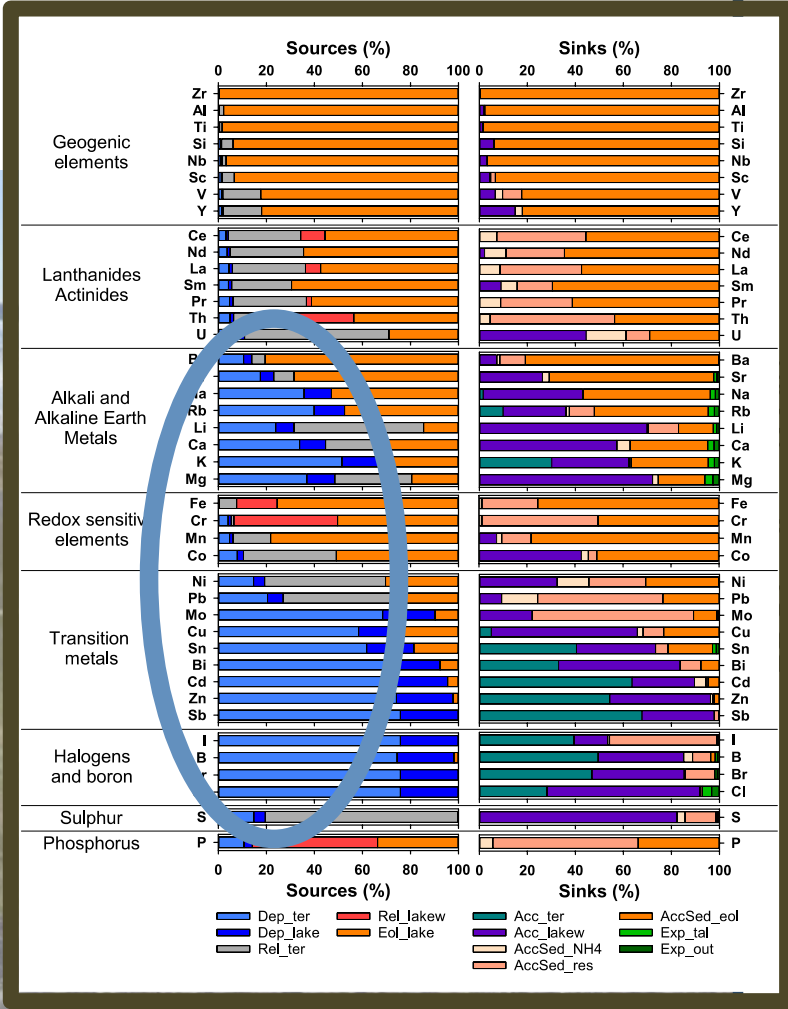


ELEMENTS RELEASED BY WEATHERING - PC-1

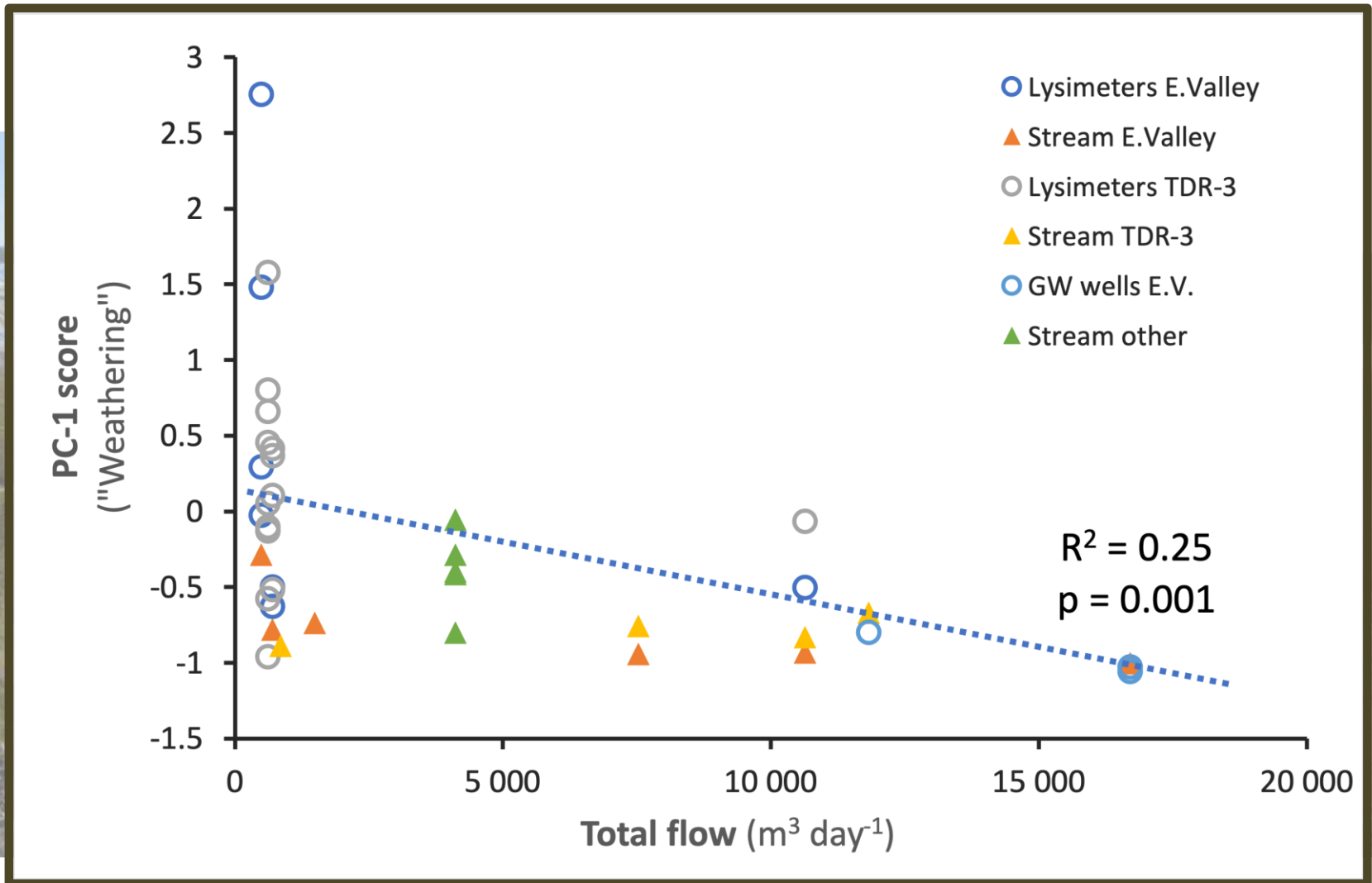




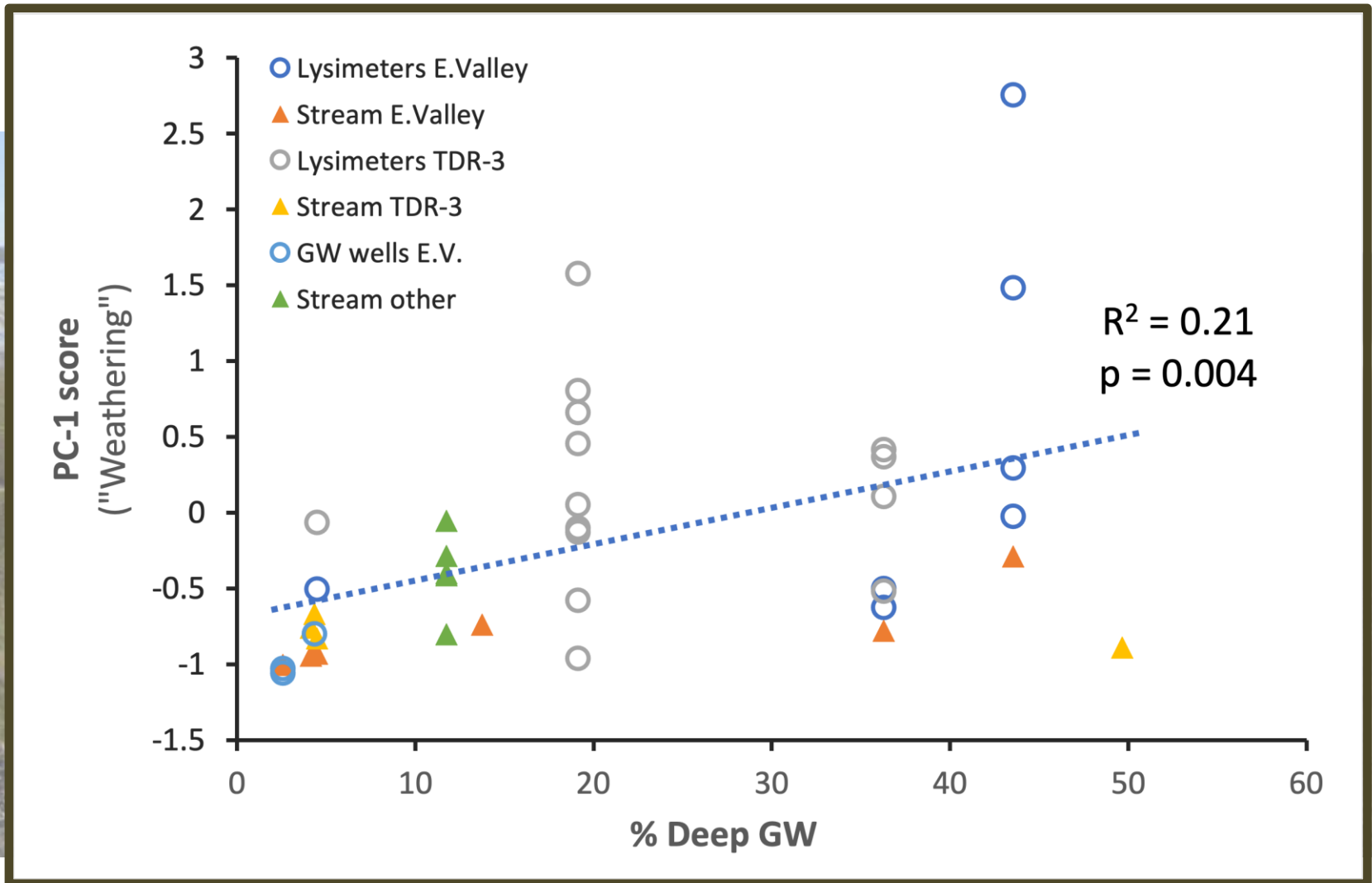
ELEMENTS SUPPLIED VIA PRECIPITATION – PC-2



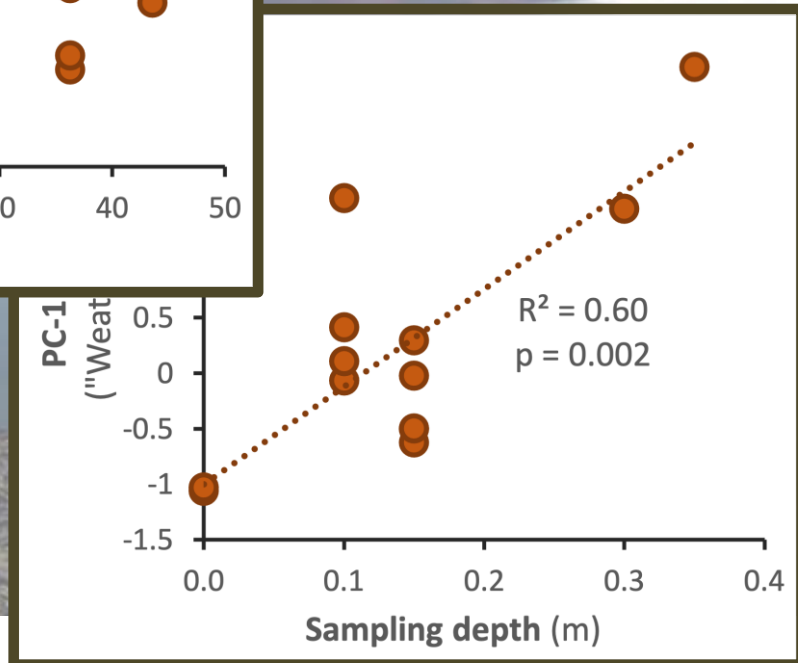
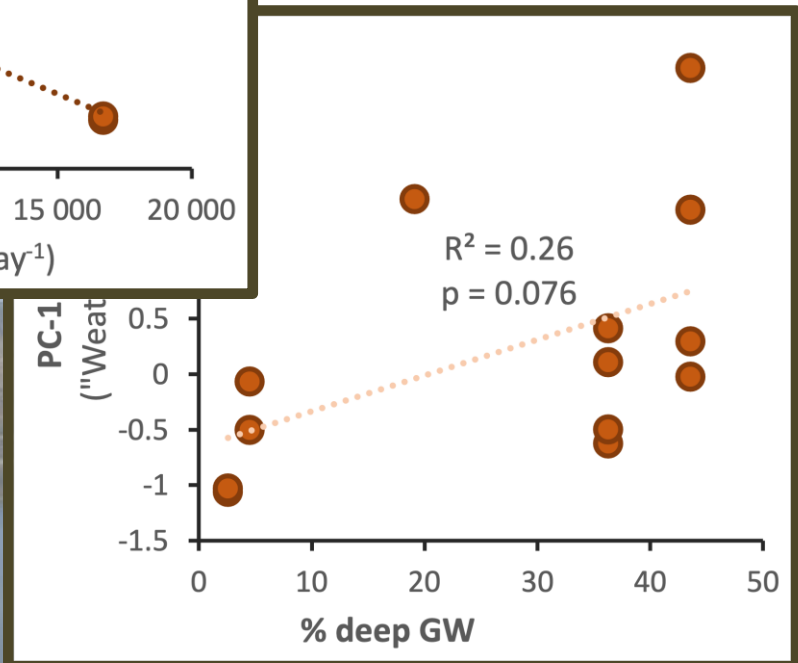
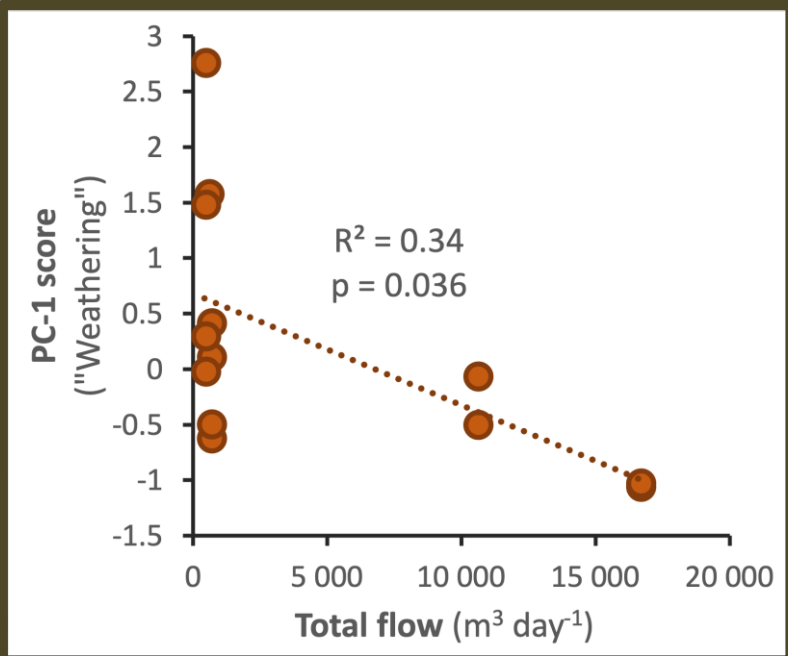
ELEMENTS RELEASED BY WEATHERING VS TOTAL FLOW



ELEMENTS RELEASED BY WEATHERING VS % DEEP GW

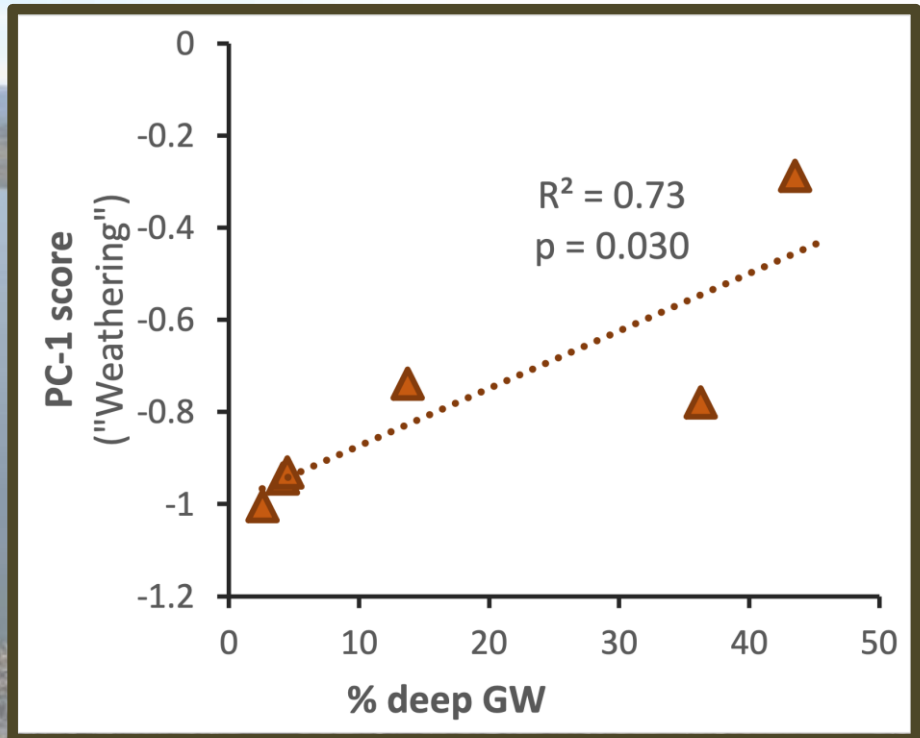
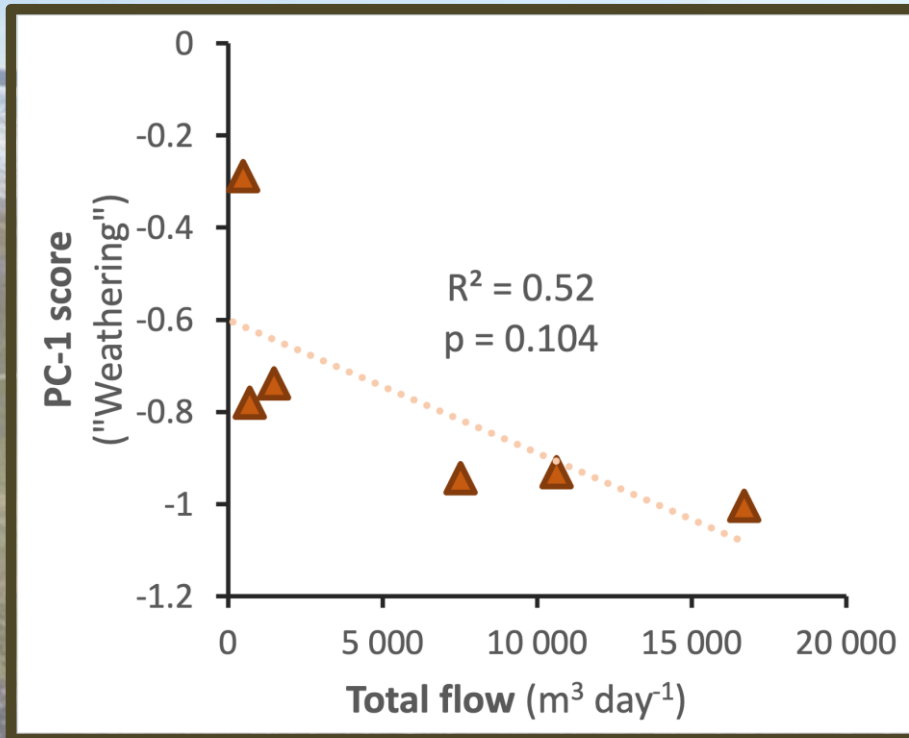


SOIL WATER IN EMMA VALLEY - WEATHERING

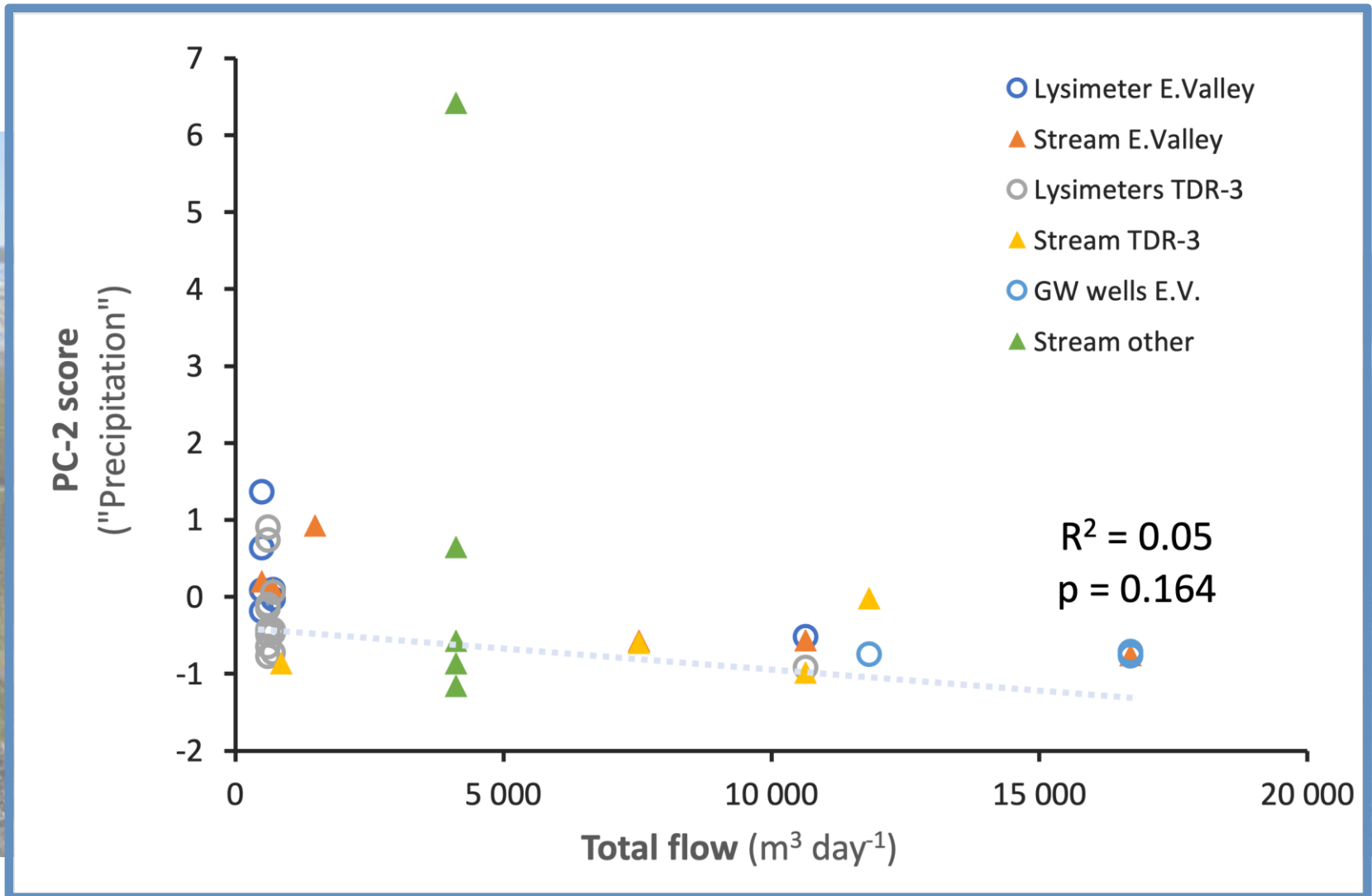




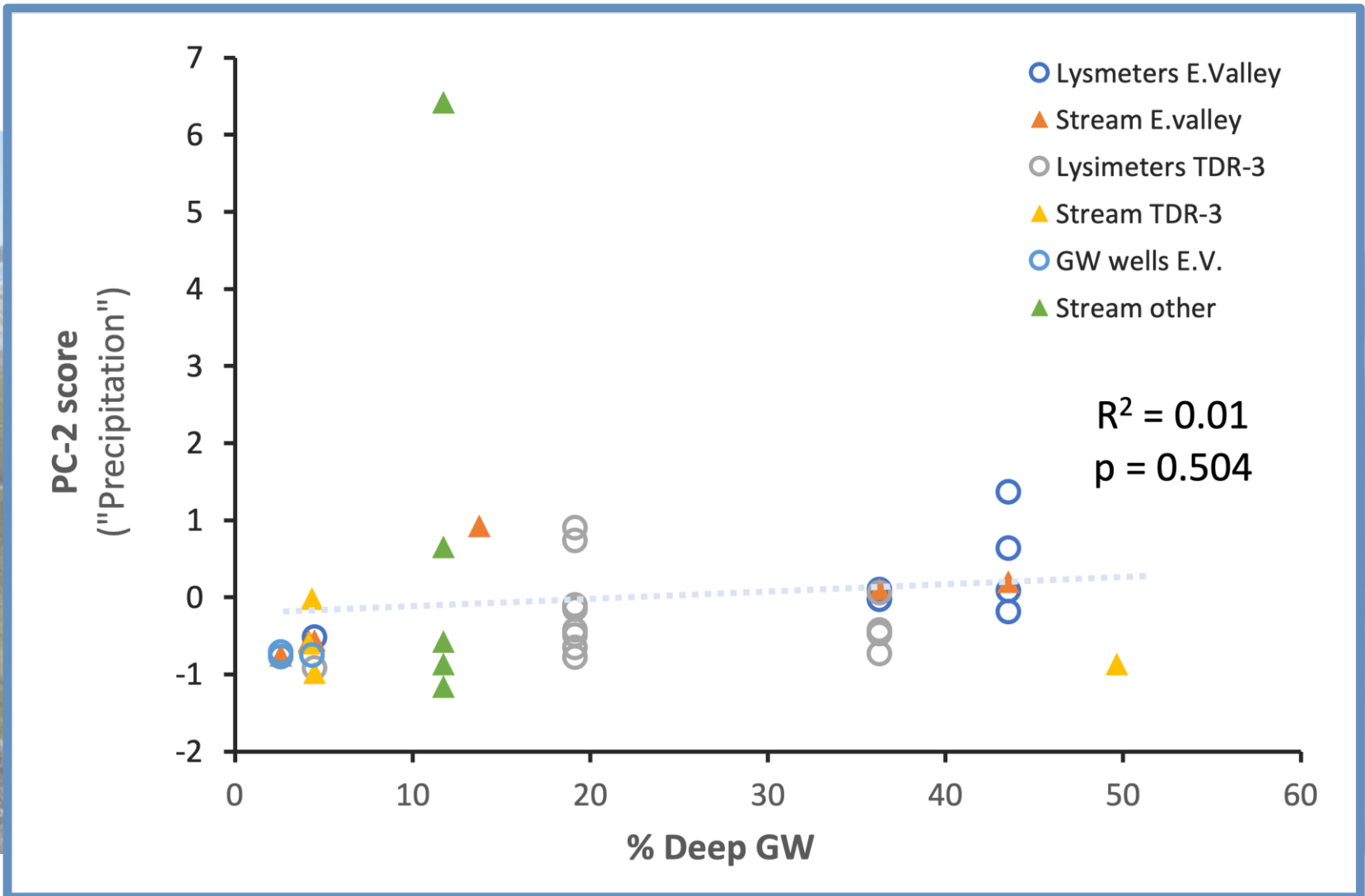
STREAM WATER IN EMMA VALLEY - WEATHERING



ELEMENTS FROM DEPOSITION VS TOTAL FLOW

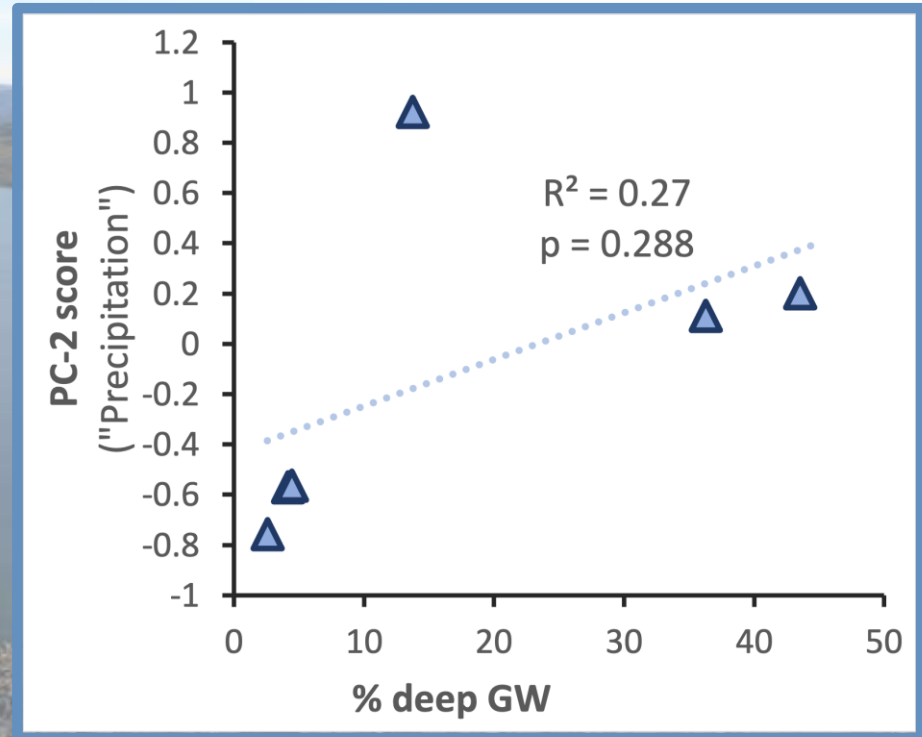
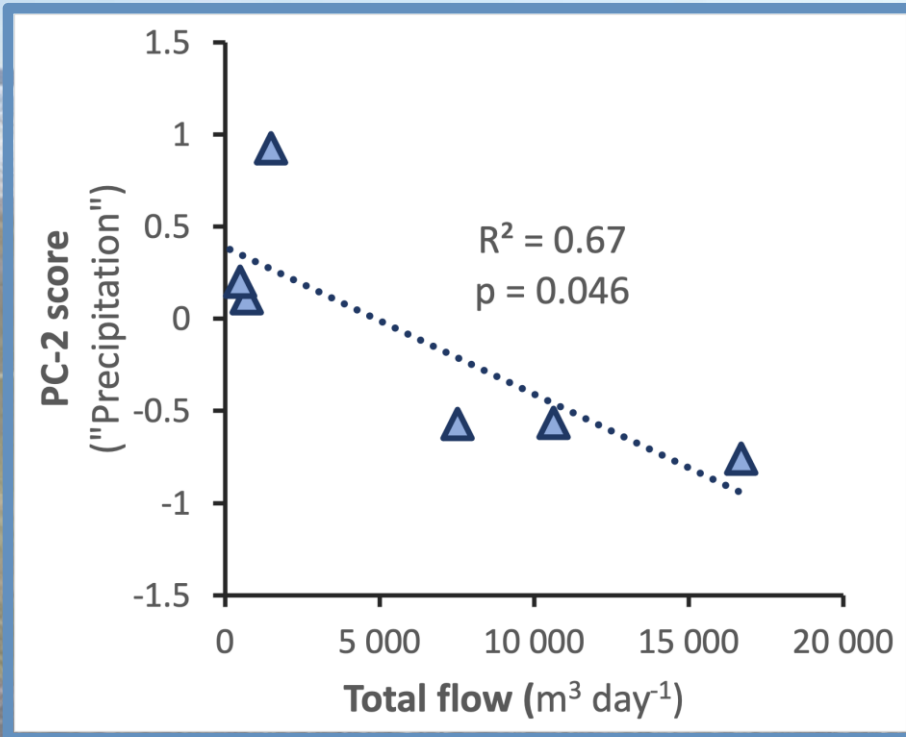


ELEMENTS FROM DEPOSITION VS % DEEP GW

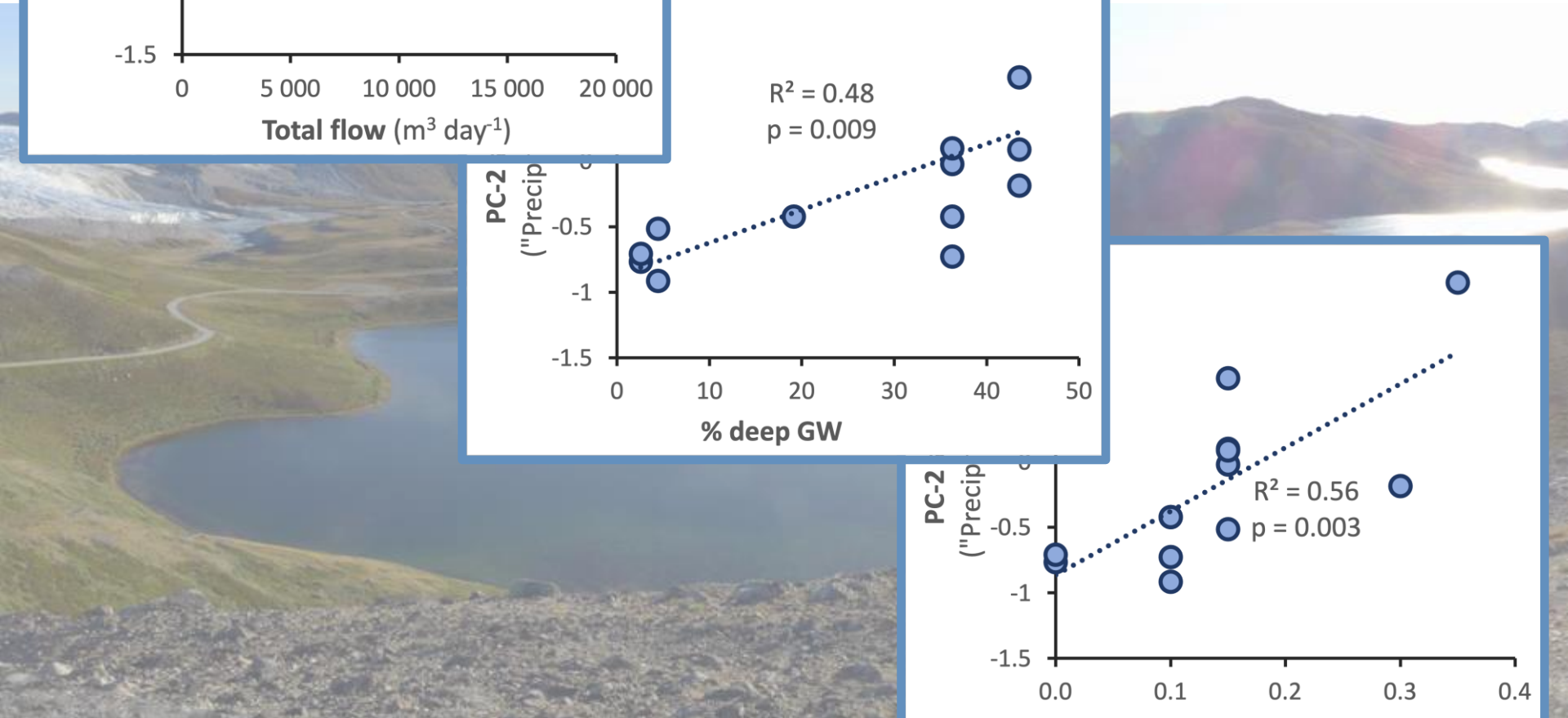
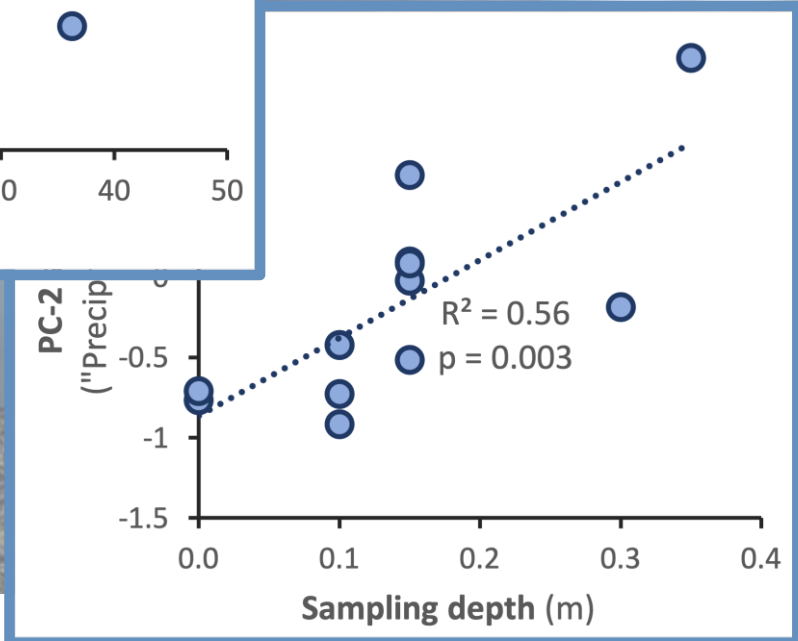
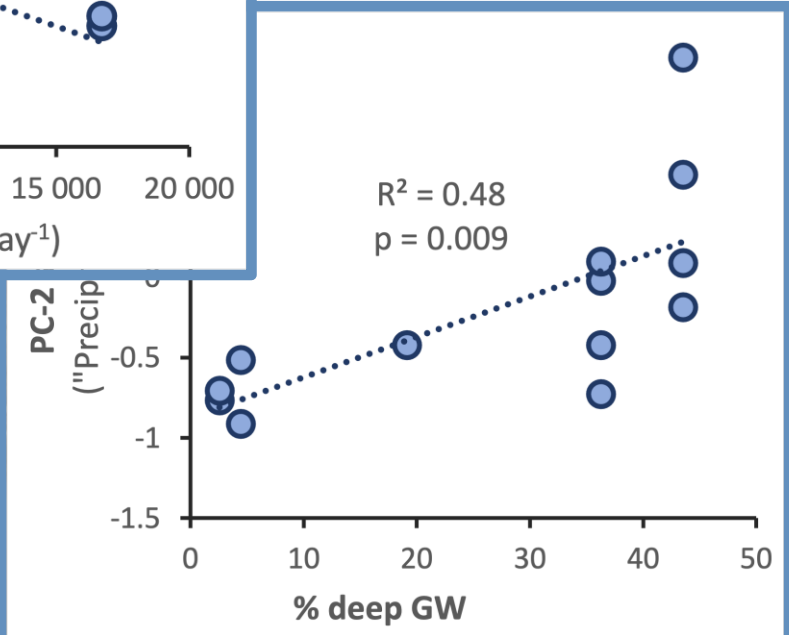
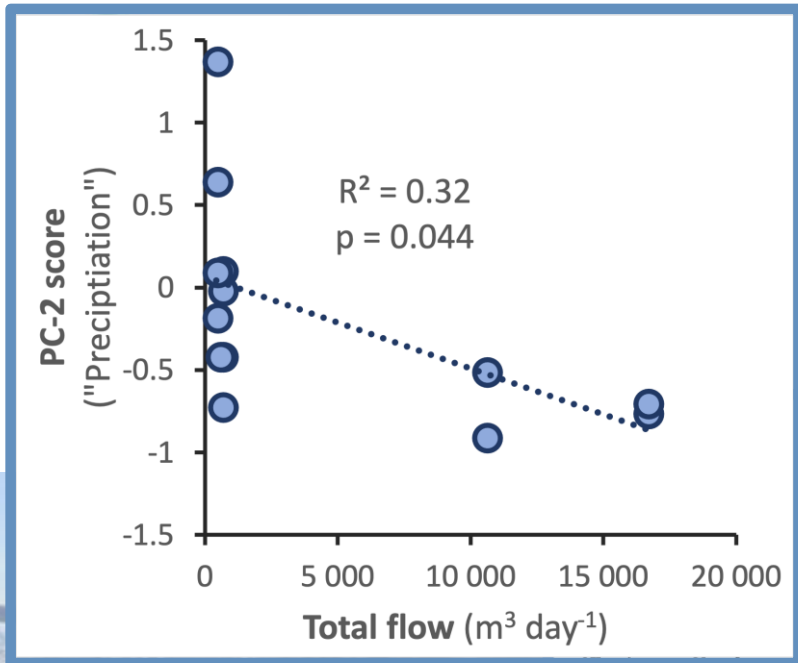




STREAM WATER IN EMMA VALLEY - PRECIPITATION

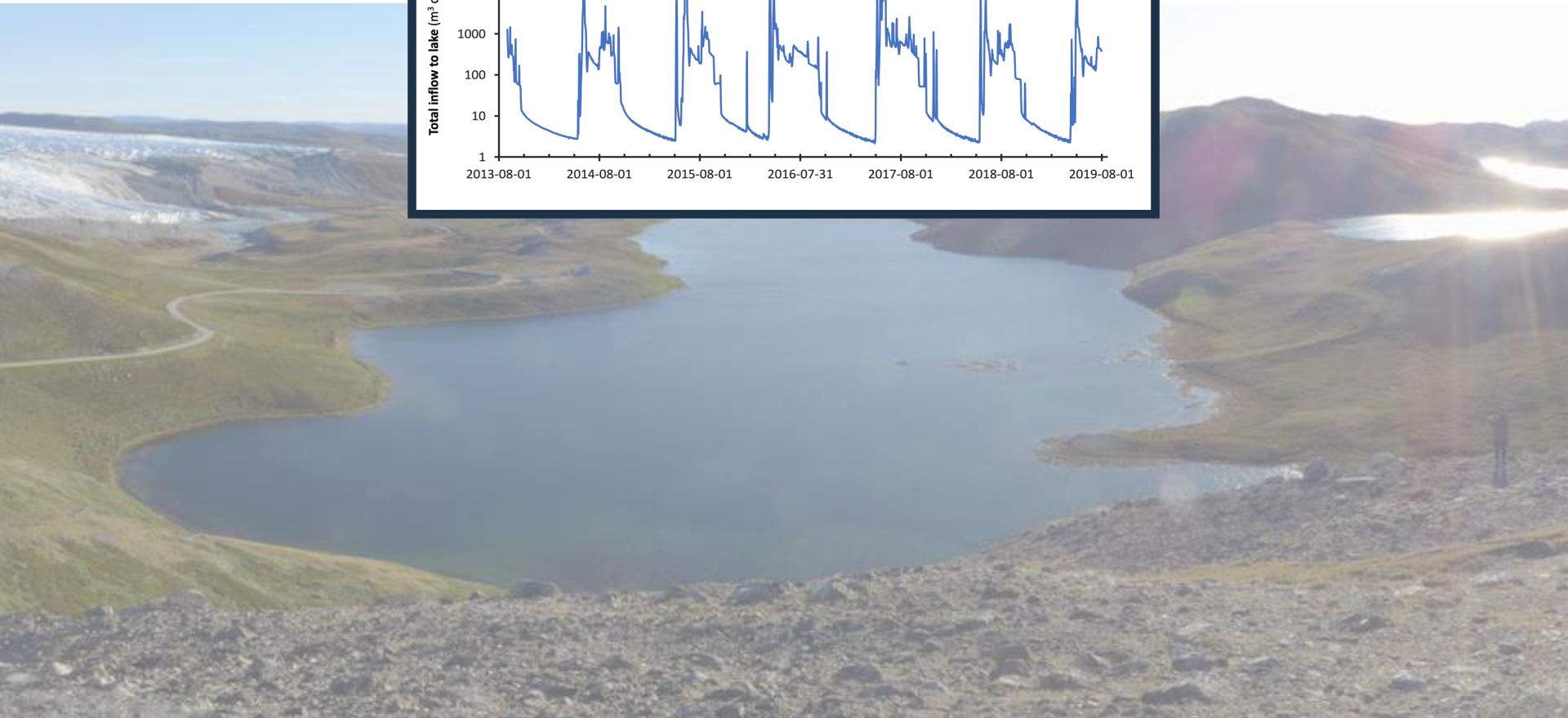
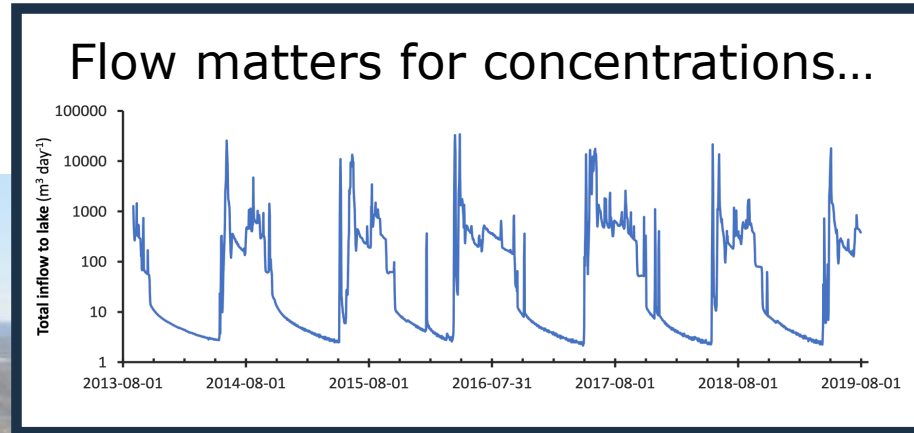


SOIL WATER IN EMMA VALLEY - DEPOSITION





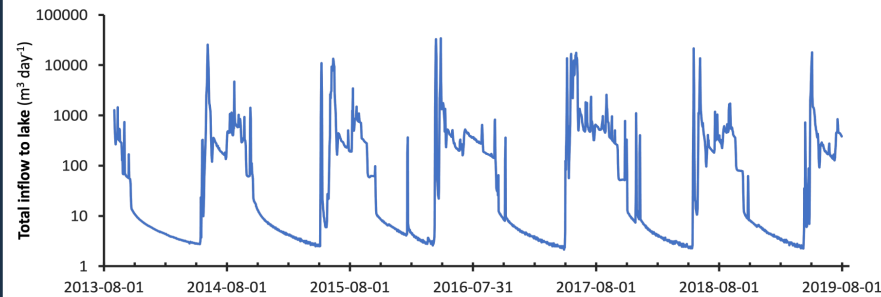
"CONCLUSIONS"



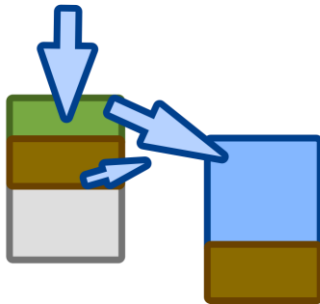


"CONCLUSIONS"

Flow matters for concentrations...



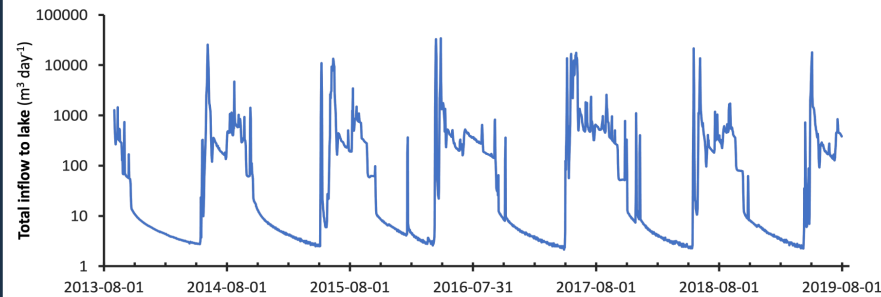
...as does the source...



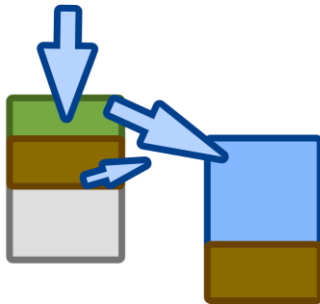


"CONCLUSIONS"

Flow matters for concentrations...



...as does the source...



.....and which is the more important depends on the element



QUESTIONS

