

explain trends

evolutionary timescales?

Suggests ACL interpretations in the geologic record are robust; existing links to temperature and aridity

Further work: comparison of ACL to geologic-scale proxy CO2 reconstruction: does ACL change with CO2 on

- ٠ Longer *n*-alkane chain lengths: more costly to produce but preserve more water-ACL correlates with aridity, temperature on continental scales
- ٠ Under elevated CO<sub>2</sub>, plants don't need as much investment in water saving chemicals-including n-alkanes-ACL expected to decrease
- However: Just because plants could benefit from a decrease in ACL, doesn't ٠ mean they will
- ٠ Timescales of response: can ACL alter with CO<sub>2</sub> on human timescales?