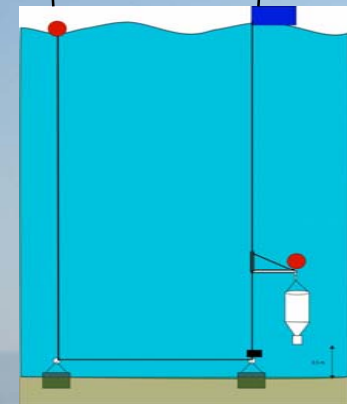


## Lisa Doner - Plymouth State University

- climatology
- limnogeology
- geosphere-atmosphere-biosphere processes

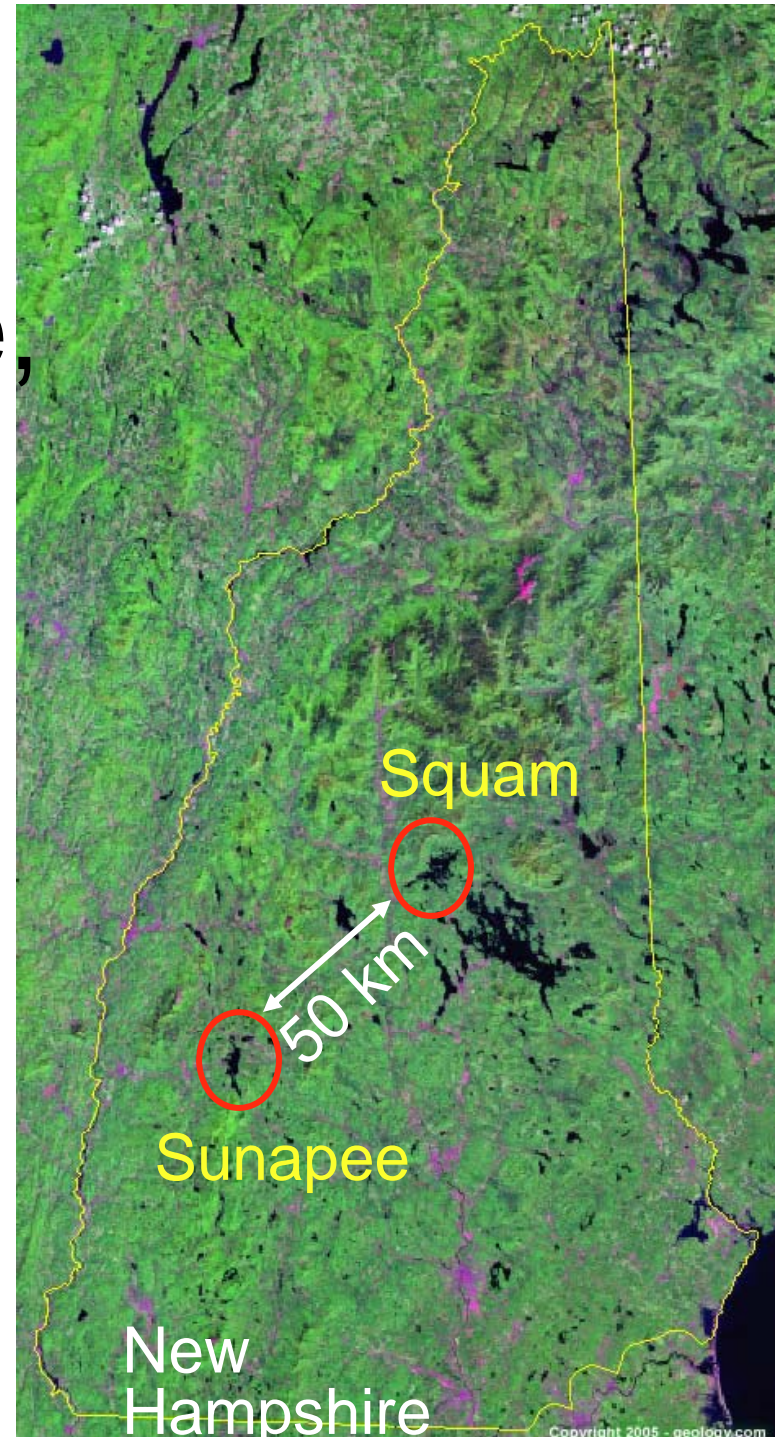
Approach: get the mud & lake on the same page

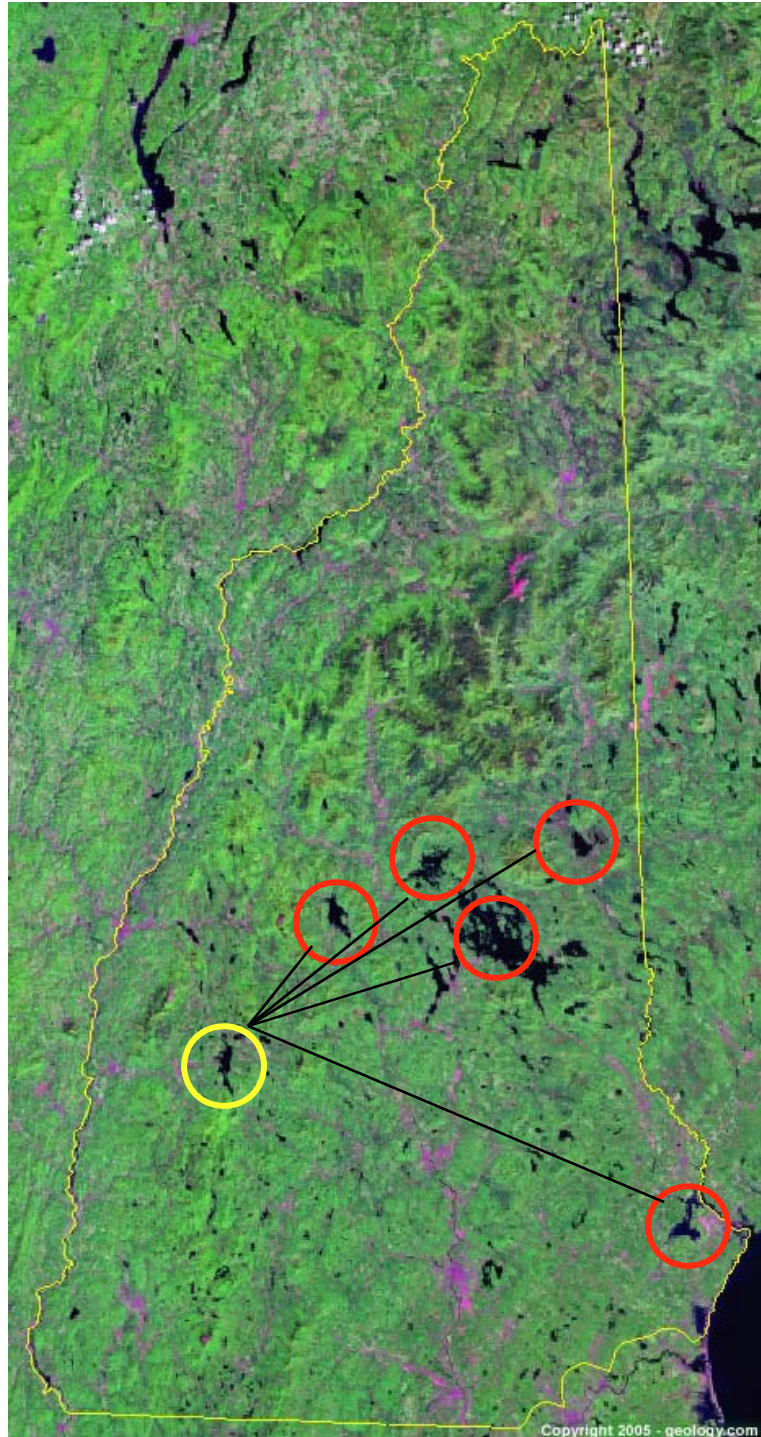




# Squam Lake, NH

- proximal to the Sunapee GLEON site established last summer
- similar climate, bedrock geology, general size and depth scaling
- significantly less development in the watershed and along the shores
- creates potential to detailed inter-basin comparisons on lake sensitivity to external forcing (i.e. climate, atmospheric pollution, salinification)





Sunapee site fixed; new site mobile - both same sampling resolution, same parameters (maybe identical sensors), same interval of time covered during comparison

Mobility of one of the pair allows comparisons of a wide variety of sites without losing continuity of Sunapee record

Second buoy with profiling sensors, a travelling CTD to obtain full depth profile and an ADCP

Need profiled data for geological applications and whole lake circulation studies

Problems: winter conditions may cause freeze-up in gears (YSI rep raised this caution)

ADCP not compatible with profiler - needs an independent buoy as YSI imagines it. Must be an easier solution with less parts and more integration.... How?