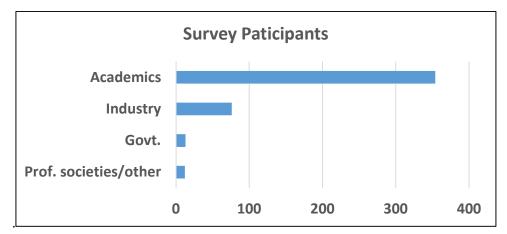
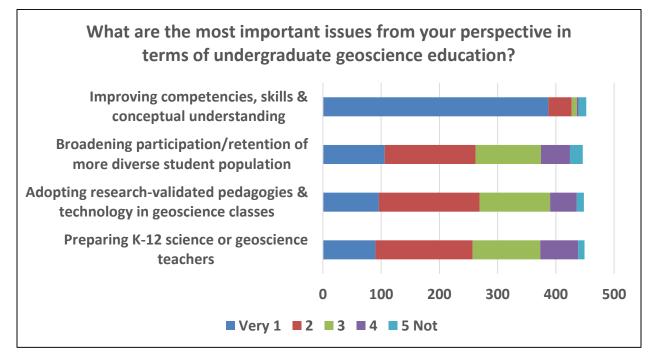
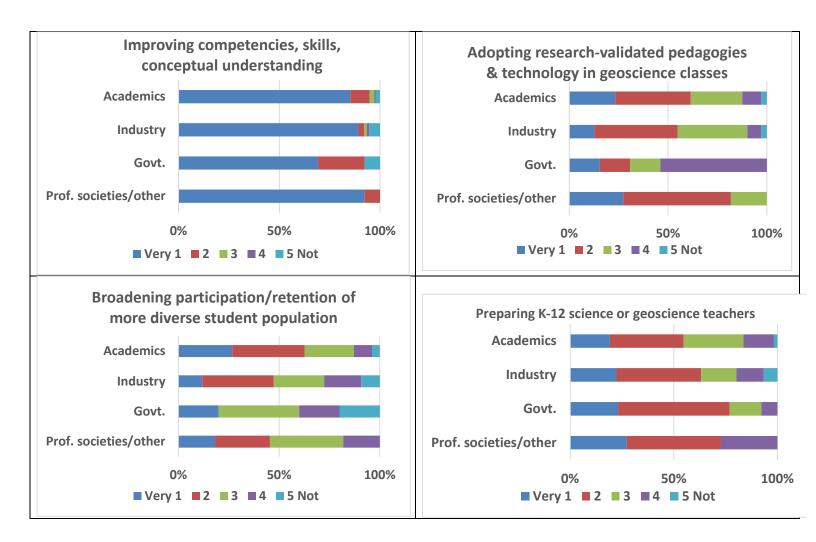
EAR-1347209: The Future of Undergraduate Geoscience Education

Survey: 2014-15 results:

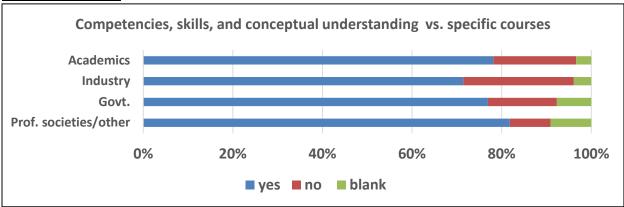
We have had ~455 respondents to the online, ongoing survey with: 354 academics (78%), 76 industry (17%), 13 government agencies (3%), 7 other (1%), 5 professional society representatives (1%). Of these, 85% were not Summit participants, indicating that between the ~200 Summit participants and the ~390 non-participant survey respondent, we are receiving input from a large segment of the geoscience community. The gender distribution on the survey is 308 male and 147 female.



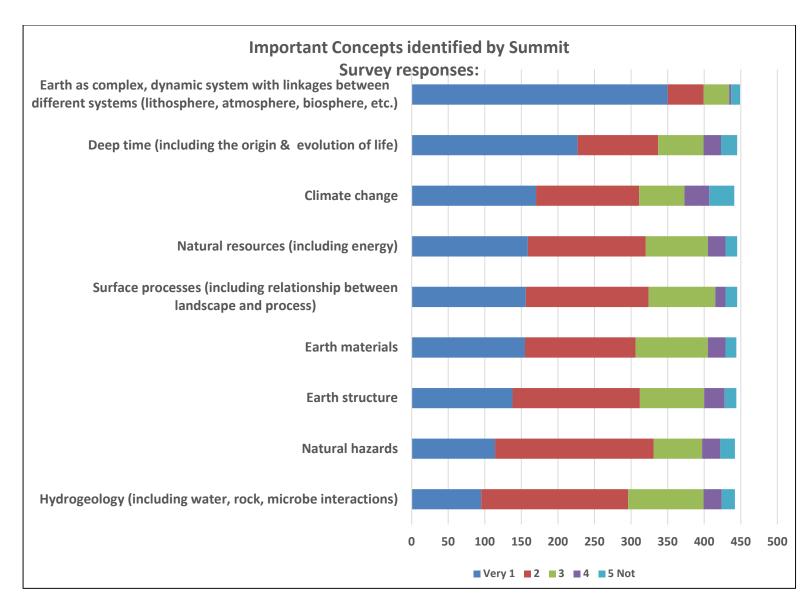




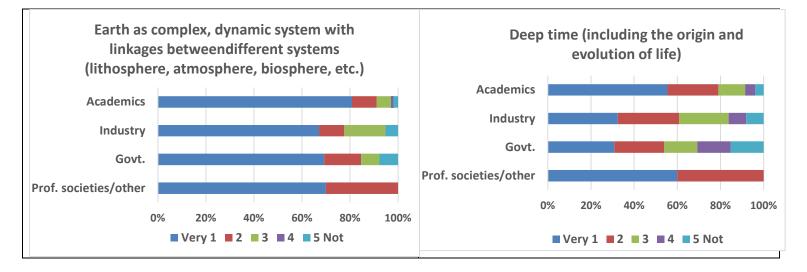
Major conclusion of Summit: Developing competencies, skills, and conceptual understanding is more important than taking specific courses

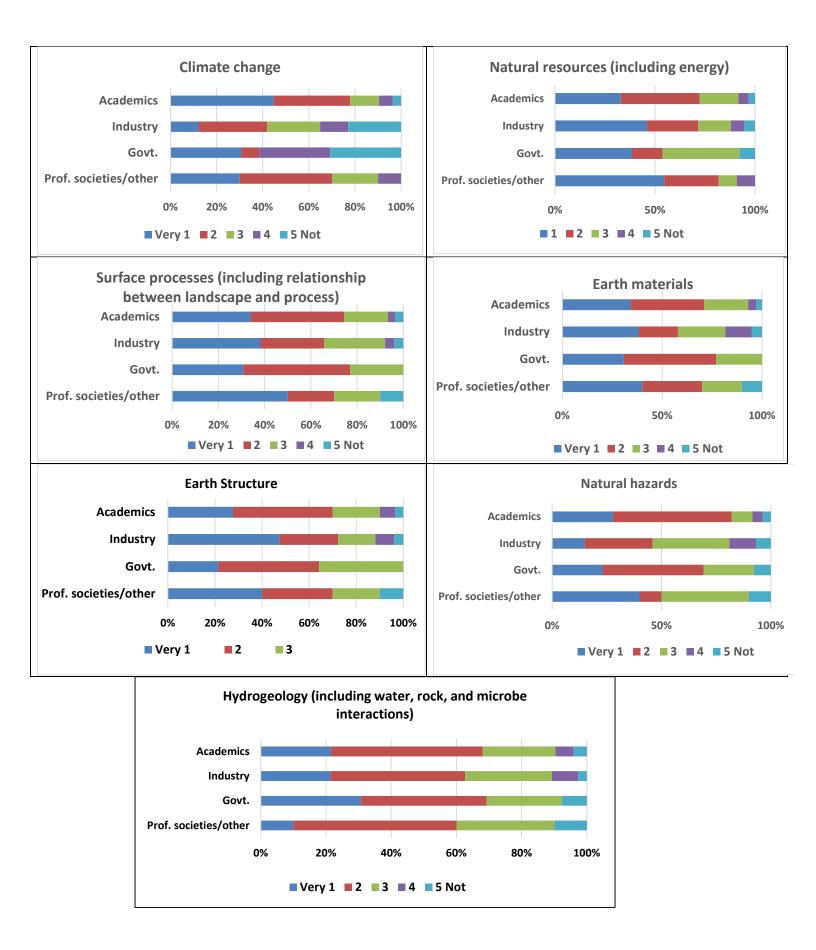


Survey Responses:

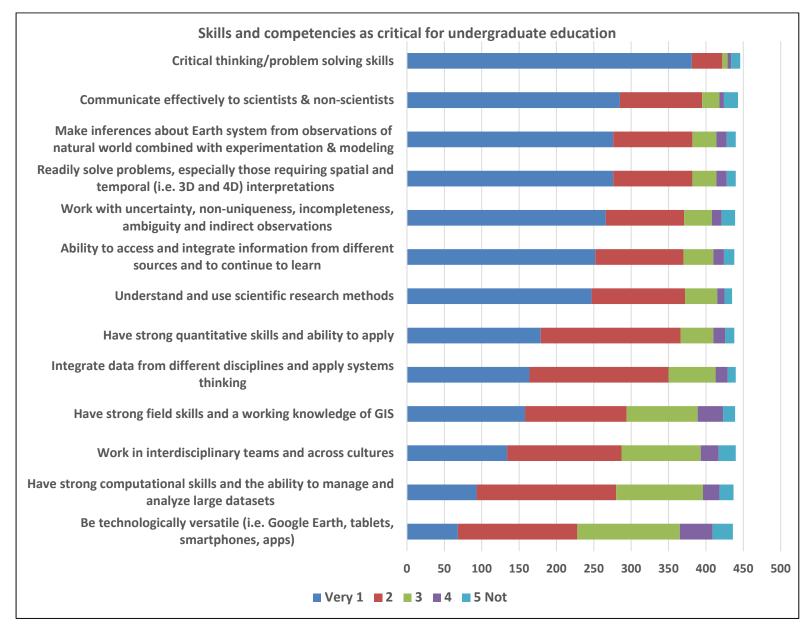


Breakdown by Employment Category

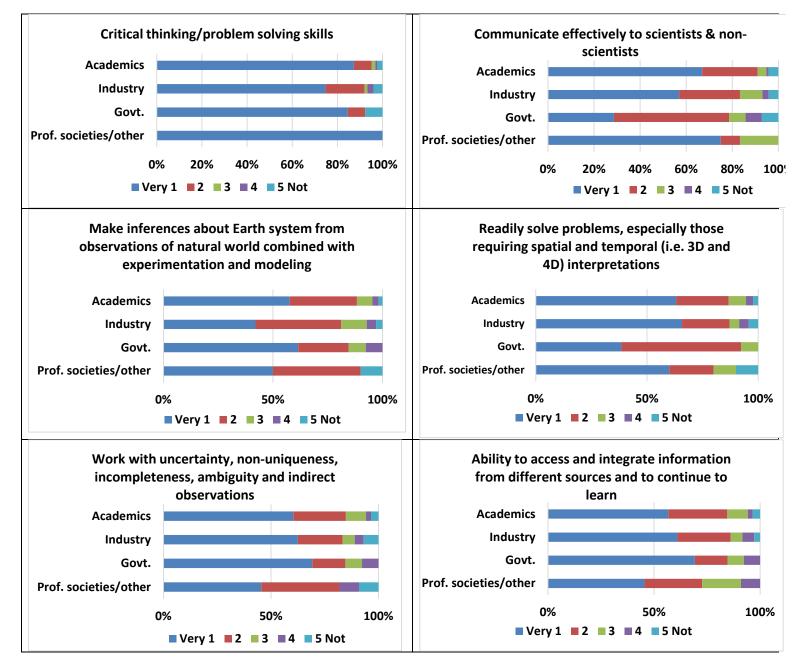


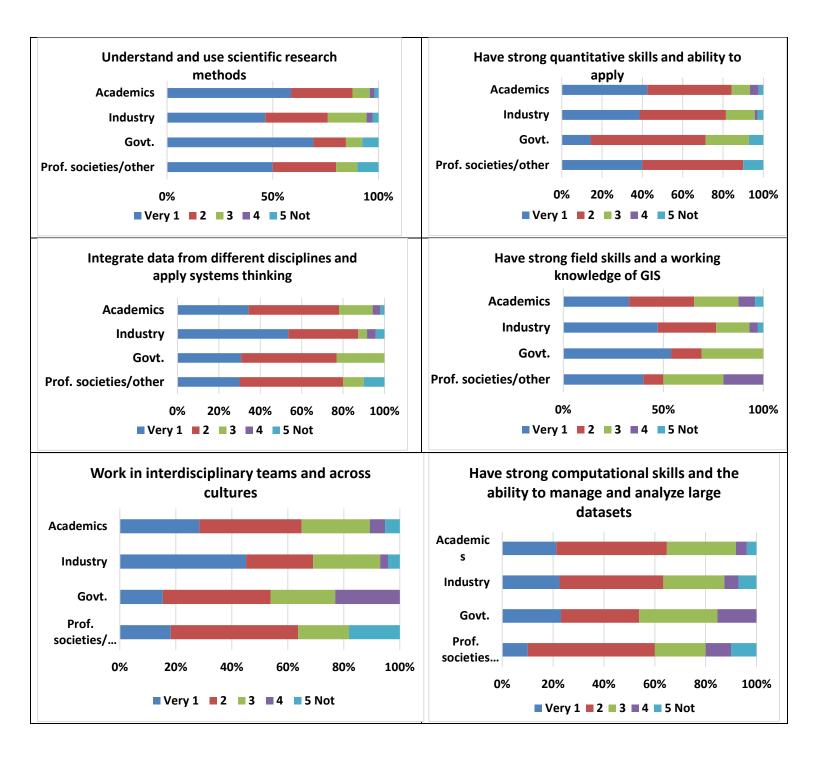


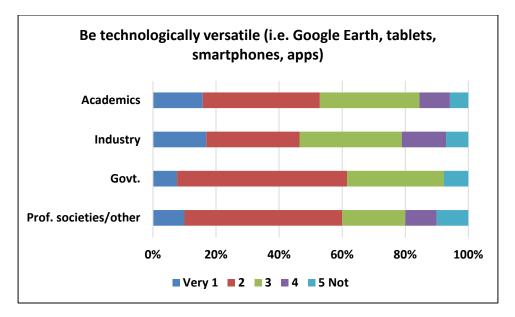
In addition to geoscience concepts, the Summit identified specific skills and competencies that undergraduate students should have when they graduate. These were divided into skills that all science students should have, such as communication, use of the scientific method, etc. and those that were specific to the geosciences, such as solving problems that require spatial and temporal (3D and 4D) thinking, working with uncertainty, etc. The survey also asked the respondents to indicate how important each of these skills were.



Breakdown by Employment Category







Additional questions focused on pedagogy, departmental practices, requirements, and learning outcomes and K-12 teacher preparation and recruiting and retaining underrepresented groups. This data was analyzed at an early stage (~250 respondents), but needs to be reanalyzed now that the database is larger.