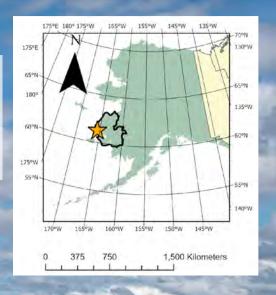
A decade of climate change research in the Yukon-Kuskokwim Delta, Western Alaska

Karen H. Beard¹, Katharine C. Kelsey², Matteo Petit Bon¹, Tyler J. Williams¹, A. Joshua Leffler³

¹Utah State University, ²University of Colorado Boulder, ³South Dakota State University



- · Large river delta in N. America
- Susceptible to sea-level rise, increased storm surges and subsidence
- Other climate forces: increasing temperatures, earlier growing seasons, and shifting migratory goose arrival times and distributions
- 3 research projects examining how different factors of change play a role (alone and in combination) in altering ecosystem properties and processes in these high-latitude regions

ANS - 2113641 ANS - 2113750 ANS - 2113692 ASS - 2302106 Changing the timing of the growing season and migratory goose arrival influences plant growth, carbon and nitrogen storage, and greenhouse gas exchange.

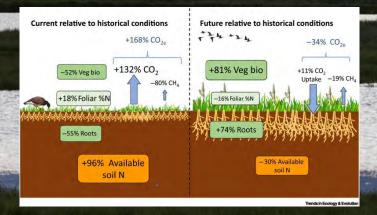
Increased flooding and warming, in light of changing goose herbivory patterns might influence communities from lowland wetlands to upland tundra

Effects of a 50-year Typhoon event, Merbok, on influence plant communities, phenology, species traits, and gas exchange











for vegetation and carbon flux responses

