## Biparental Coordination Mechanics of Leach's Storm-Petrels, Oceanodroma leucorhoa Liam Taylor, 2017

This summer, I gathered data in an attempt to unravel a mysterious step in the reproductive strategy of Leach's Storm-Petrels (*O*). In order to successfully incubate their single-egg clutches in underground burrows, while also having to travel up to thousands of kilometers away from their nesting colonies to forage, the Storm-Petrels utilize obligate biparental care strategies. Several known adaptations, such as the Storm-Petrel eggs' ability to withstand long periods of non-incubated neglect, are deeply tied to the unknown scheduling processes by which two adults coordinate care. As shown in other species, this care may be most strongly influenced by an individual's physiological condition and that same individual's incomplete knowledge of its mate's behavior.

To uncover the driving forces behind biparental coordination, my project first involved a focus on real-world data. By tagging both parents at several nests with Passive Integrated Transponder (PIT) tags, I could get a unique-