This talk will be about the wave maps problem with domain $\mathbb{R}^{2+1}$ and target $S^2$ in the 1-equivariant, topological degree one setting. In this setting, we recall that the soliton is a harmonic map from $\mathbb{R}^2$ to $S^2$, with polar angle equal to $Q_1(r) = 2\arctan(r)$. By applying the scaling symmetry of the equation, $Q_\lambda(r) = Q_1(r\lambda)$ is also a harmonic map, and the family of all such $Q_\lambda$ are the unique minimizers of the harmonic map energy among finite energy, 1-equivariant, topological degree one maps.

In this talk, I will discuss how to construct a collection of infinite time blowup solutions along the $Q_\lambda$ family, with a symbol class of possible asymptotic behaviors of $\lambda$. 