Project 6 - Geomorphic controls on human and climate-induced impacts to coastal groundwater systems

**Location:** The project will be based at Flinders University, Adelaide, SA

**Required area of expertise/background:** Background in one or more of: hydrogeology, geophysics, coastal geomorphology, computer modelling are highly desirable

**Project:** This project will investigate human and climate-induced impacts to coastal zones, considering changes in the coastal geomorphology (e.g., beach and foredune translation), and associated impacts to coastal groundwater systems, arising from anthropogenic stresses (e.g., urbanisation) and climate-induced forces (e.g., sea-level rise). The future of coastal zones is expected to change drastically with increased human pressure and sea-level rise. This project will involve multi-disciplinary analysis of changes in inter-tidal zones and foredune structures, and how they interrelate with groundwater impacts, such as salinization and watertable rise. These issues require consideration vegetation change and urban disruption to properly assess geomorphological and hydrogeological behaviour.

**2019 RTP full time RTP Stipend Rates** ($27,596). Approximate annual top-up amount: $4,000

**Principal Supervisor:**

[Prof Adrian Werner](#) - Flinders University

**Co Supervisors:**

[Dr Dylan Irvine](#) & [Prof Patrick Hesp](#) – Flinders University