IMPACT stands for Integrated Marine Protected Areas Climate Tools. It was designed to help managers and stakeholders develop adaptation and mitigation strategies by providing them with accessible and accurate climate data. IMPACT has a threefold approach: developing climatologies that integrate atmospheric, oceanographic, and ecological data to identify and quantify critical climate drivers of ecosystem change, developing climatologies that integrate atmospheric, oceanographic, and ecological data to identify and quantify critical climate drivers of ecosystem change, and developing climatologies that integrate atmospheric, oceanographic, and ecological data to identify and quantify critical climate drivers of ecosystem change.

**What is IMPACT?**
- IMPACT stands for Integrated Marine Protected Areas Climate Tools.
- Its purpose is to provide detailed climate and climate change information at the MPA scale to assist managers, decision makers, and stakeholders in understanding and predicting the vulnerabilities and impacts of climate variations and change on the MPA ecosystem.
- IMPACT utilizes historical climate data to resolve variability and trends at the regional scales and combines those scaled data with oceanographic and ecological data to identify and quantify critical climate drivers of ecosystem change.
- IMPACT has three main components:
  - Oceanographic and Ecological Data
  - Climate Drivers
  - Ecosystem Impacts

**Why IMPACT?**
- MPA managers generally do not have an atmospheric science background, and existing climate information can be a challenge to properly interpret, especially relating to complex ecosystem dynamics.
- While some products do address climate impacts (e.g., NOAA CRW Coral Bleaching alert), there are no comprehensive products available to interpret climate drivers at scales relevant to the MPA.
- Climate change impacts on coral reefs are complex and interlinked, and understanding these impacts requires an integrated approach.

**What climate variables associate most closely with observed changes?**
- How quickly is the climate changing over the MPA?
- How does IMPACT help?
- Managers use real-time climate products to quantify determine the characteristics of climate change over their MPA. In particular, IMPACT can help answer questions such as:
  - More Information
  - Where can IMPACT be used?
  - When will IMPACT be ready?

**Where can IMPACT be used?**
- IMPACT is intended for use in coastal and estuarine areas where managers are tasked with managing climate-related impacts on the MPA ecosystem.
- The Florida Keys National Marine Sanctuary (FKNMS) is a prime example of an MPA where IMPACT can be used to help managers and stakeholders understand and predict climate impacts.

**When will IMPACT be ready?**
- IMPACT is currently being developed and is expected to be ready for use in the summer of 2012.
- Managers and stakeholders who want to be among the first to access IMPACT information should keep an eye on the FKNMS website for updates.

**Who will benefit from IMPACT?**
- MPA managers who must incorporate climate change into long-range management plans, or who must be able to translate climate information into ecosystem impacts, can benefit from IMPACT.
- Researchers who need to identify and quantify the relationships between climate drivers and ecosystem responses and who need to model climate impacts can benefit from IMPACT.
- Stakeholders who plan to implement adaptive management practices and who want to access detailed, real-time climate information can benefit from IMPACT.