Cody Benton

Student

crb2001@uncw.edu
19103525981
Wilmington, North Carolina
www.codybenton.com

I am from Wilmington, North Carolina where I attended the University of North Carolina at Wilmington. I graduated with a B.A. in physics with minors in physical oceanography and mathematics. Towards the end of my college career I discovered the field of physical oceanography. As both a physics student and a native of the coast understanding coastal dynamics proved to be interesting. I am primarily interested in coastal processes that occur on the shelf, and estuaries. I intend to pursue a graduate degree in the near future.

EDUCATION

B.A. Physics
UNC at Wilmington

06/2018 - 05/2021 *Wilmington, NC*

minors: Physical Oceanography, Mathmatics

- Senior Capstone Project:
  "*Baroclinic Tides on the North Carolina Shelf*"

WORK EXPERIENCE

Research Assistant
UNC-Wilmington's Center for Marine Science

05/2021 - Present *Wilmington, NC*

Achievements/Tasks

- As part of the 2021 SECOORA Data Challenge Award I am working with Dr. Suanda and the Coastal Ocean Research and Monitoring Program (CORMP) to process historical ADCP data and apply quality control to the data.
- Using two decades of in-situ current measurements I am looking at the availability and seasonality of marine hydrokinetic energy on the North Carolina shelf.
- Present updates of my work to identified stake holders which include CORMP, the North Carolina Renewable Ocean Energy Program (NCROEP), and the SouthEast Coastal Ocean Observing Regional Association (SECOORA).
- Help with field work such as swapping out buoys and servicing instruments.

SKILLS

Matlab | Data Processing | Data Analysis Methodds | LaTex | Experience With Scientific Writing | Experience Tutoring College Physics

PERSONAL PROJECTS

The Effects of Extreme Wind Events on North Carolina Shelf Currents (07/2021 - Present)
- Poster presentation at the Young Coastal Scientist and Engineers Conference in Myrtle Beach 2021. This project looks specifically at the coastal ocean's reaction to tropical storms and extratropical storms (also known as nor'easters) and how they differ.

Baroclinic Tides on the North Carolina Shelf (01/2021 - 05/2021)
- A tidal analysis was done on both the baroclinic and barotropic currents on the shelf. Seasonal stratification was found to corresponds to baroclinic tides propagating cross-shore. Results were presented to the department.

Temporal Investigation of the Tidal Ellipse on Southeastern North Carolina Shelf (08/2020 - 12/202)
- Using 8 years of current measurements the M2 tidal constituent was investigated and found to have a high degree of variability in the late summer and early fall. Results were presented to the department.

HONOR AWARDS

Academic Excellence Scholarship (04/2016)
Appalachian State University

North Carolina Space Grant (01/2017)
North Carolina State University & NASA

Benjamin A. Gilman Scholarship (06/2018)
U.S. Department of State

2021 Data Challenge Winner (05/2021)
SouthEast Coastal Ocean Observing Regional Association (SECOORA)