

Shuyi S. Chen

CURRENT SUPPORT:

- Title: Coupled atmosphere-wave-ocean physics, modeling, and prediction (CARTHE-III)
Role: Co-PI
Subaward from: University of Miami
Originating Agency: Consortium of Ocean Leadership
Award Amount: \$300,483
Period of Performance: 1/1/2018 -12/31/2019
Person Months Committed: 1.5 months (Yr1), 1.2 months (Yr 2)
Location of Project: University of Washington
- Title: Role of Air-Sea-Land Interaction in the MJO Prediction Barrier over the Maritime Continent: A Cloud-Resolving Coupled Modeling Study (U. Washington/PMEL)
Role: PI
Agency: NOAA
Award Amount: \$438,912
Period of Performance: 7/1/2017 – 6/30/2020
Person Months Committed: 1.5 months/year
Location of Project: University of Washington
- Title: Convective Organization and Environmental Influence over Tropical Oceans: Convective Processes Experiment (CPEX)
Role: PI
Agency: NASA
Award Amount: \$309,289
Period of Performance: 11/3/2017 – 10/10/2020
Person Months Committed: 1.0 month/year
Location of Project: University of Washington
- Title: Implementing a Physically Motivated Source of Sea Salt for Aerosol and Cloud Applications in GEOS-5 through Improved Wind-Wave Coupling
Role: Co-PI
Agency: NASA Goddard Space Flight Center
Award Amount: \$251,603
Period of Performance: 8/9/2017 – 8/8/2021
Person Months Committed: 1.0 month/year
Location of Project: University of Washington
- Title: Collaborative Research: Ocean Surface Waves and Drag Coefficient in Tropical

Cyclones

Role: Co-PI
Agency: NSF
Award Amount: \$143,738 (*Chen's portion*)
Period of Performance: 5/1/2018 – 4/30/2019
Person Months Committed: 1.0 month/year
Location of Project: University of Washington

- Title: Investigation of Effects of Ocean Surface Waves and Current on Wind in Tropical Cyclones Using CYGNSS Data and a Coupled Atmosphere-Wave-Ocean Model

Role: PI
Agency: NASA
Award Amount: \$477,792
Period of Performance: 6/1/2018 - 5/31/2021
Person Months Committed: 1.0 months/year
Location of Project: University of Washington

- Title: Diurnal Variability of Precipitation over the Maritime Continent and its Relationship to the MJO

Role: Advisor
Agency: NASA Earth and Space Science Fellowship
Award Amount: \$87,713
Period of Performance: 9/1/2017 – 8/31/2019 (renewable to 3 years)
Person Months Committed: 0 months
Location of Project: University of Washington

- Title: Improving High-Impact Tropical Weather Prediction Using Ocean Vector Wind Data and a High-Resolution Coupled Atmosphere-Wave-Ocean Model

Role: PI
Agency: NASA
Transferred Amount: \$633,701
Period of Performance: 5/1/2014 – 4/30/2019
Person Months Committed: 1.0 month/year
Location of Project: University of Washington

- Title: Understanding Coupled Ocean-Atmosphere Processes at the Eastern Edge of the Warm Pool in Support of TPOS 2020

Role: PI
Agency: NOAA
Award Amount: \$408,366
Period of Performance: 9/1/2018 – 8/31/2021
Person Months Committed: 1.0 month/year
Location of Project: University of Washington