

NAME: Robert Chant

POSITION TITLE &amp; INSTITUTION:

**A. PROFESSIONAL PREPARATION**(see [PAPPG Chapter II.C.2.f.\(i\)\(a\)](#))

INSTITUTION	LOCATION	MAJOR/AREA OF STUDY	DEGREE (if applicable)	YEAR (YYYY)
State University of New York at Buffalo	Buffalo, NY	Electrical Engineering	B.S.	1985
State University of New York at Stony Brook	Stony Brook, NY	Marine Sciences.	M.S.	1991
State University of New York at Stony Brook	Stony Brook, NY	Oceanography	Ph.D.	1995

**B. APPOINTMENTS**(see [PAPPG Chapter II.C.2.f.\(i\)\(b\)](#))

From - To	Position Title, Organization and Location
2013-present	Professor, Rutgers University, New Brunswick NJ, USA
2008-2013	Associate Professor, Rutgers University, New Brunswick NJ, USA
2002-2008	Assistant Professor, Rutgers University, New Brunswick NJ, USA
1998-2002	Assistant Research Professor, Rutgers University, New Brunswick NJ, USA
1995-1998	Postdoctoral Researcher Rutgers University, New Brunswick NJ, USA

## **C. PRODUCTS**

(see [PAPPG Chapter II.C.2.f.\(i\)\(c\)](#))

### **Products Most Closely Related to the Proposed Project**

Pareja-Roman, L. F.; Chant, R. J.; Sommerfield, C. K., (2020) Impact of Historical Channel Deepening on Tidal Hydraulics in the Delaware Estuary. *Journal of Geophysical Research: Oceans*, e2020JC016256.

Chant, R. J., C. K. Sommerfield, S. A. J. E. Talke and coasts (2018). "Impact of channel deepening on tidal and gravitational circulation in a highly engineered estuarine basin."

Aristizábal, María, Robert Chant, 2013: A Numerical Study of Salt Fluxes in Delaware Bay Estuary. *J. Phys. Oceanogr.*, 43, 1572–1588. doi: <http://dx.doi.org/10.1175/JPO-D-12-0124.1>

Chant, R. J. 2001. Tidal and subtidal motion in a multiple inlet/bay system. *Journal of Coastal Research. Special issue* 31:102-114b

Vieria, M.E.C. and R. J. Chant. 1993. On the contribution of subtidal volume fluxes to algal blooms in Long Island estuaries. *Estuarine Coastal and Shelf Sciences*. 36:15-29

### **Other Significant Products, Whether or Not Related to the Proposed Project**

Chant, R. J. 2002. Secondary flows in a region of flow curvature: relationship with tidal forcing and river discharge. *Journal of Geophysical Research*. 10.1029/2001JC001082, 21 September.

Chant, R. J. 2001. Evolution of near-inertial waves during an upwelling event on the New Jersey inner shelf. *Journal of Physical Oceanography*. 31:746-764

Lerczak, J., W.R. Geyer and R.J. Chant 2006 Mechanisms driving the time-dependent salt flux in partially stratified estuary. *Journal of Physical Oceanography*, Vol. 36, No. 12, pages 2283–2298

Chant, R.J., W.R. Geyer, R.H Houghton, E. Hunter and J. Lerczak (2007) "Estuarine boundary layer mixing processes: insights from dye experiments" *Journal of Physical Oceanography* Vol. 37 No 7 1859-1877

## **D. SYNERGISTIC ACTIVITIES**

(see [PAPPG Chapter II.C.2.f.\(i\)\(d\)](#))

I advise federal, state and local government officials on issues relating to estuarine and coastal processes

I Teach graduate and undergraduate classes on coastal and estuarine processes

I Advise graduate and undergraduate students at Rutgers and other universities through NSF-REU program

I Provide service to profession by providing peer review to over 30 journals and funding agencies and service on local, state and national review panels.

I Serve on numerous departmental and university panels and committees