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## Timothy P. Stanton: A Biography

Monterey, California, Naval Postgraduate School

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Naval Postgraduate School  
Monterey, California

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## Timothy P. Stanton

Research Professor and Research Associate Chair  
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### EDUCATION:

MS - Univ of Auckland, 1978  
BS - Univ of Auckland, 1975

### NPS EXPERIENCE:

- Co-Chair of research 2009 - present
- Associate Research Professor, 1990 - present
- Assistant Research Professor, 1982 -1990
- Research Instructor, 1978 - 1982

### TEACHING INTERESTS:

- Ocean Turbulence
- Internal Waves
- Air-Sea Interaction
- Inner Shelf / Nearshore Wave Processes

### RESEARCH INTERESTS:

- Oceanic turbulent boundary layers
- Turbulence associated with internal and surface waves
- Arctic and Antarctic ice / ocean interactions
- Ocean Instrumentation

### AWARDS:

- 1988: Visiting Fellowship to the Center of Water Research at the University of Western Australia
- 1990: NPS Performance Bonus Award
- 1995: NPS Outstanding Research Award

### BOARDS/MEMBERSHIPS:

- AGU
- ASA
- AMS

**SELECTED PUBLICATIONS:** ([View an extended list](#))

- McPhee, M. G., T. P. Stanton, J. H. Morison and D. G. Martinson, 1998. Freshening of the Upper Ocean in the Arctic: Is Perennial Sea Ice Disappearing?. *Geophys. Res. Lett.* 25, 1729-1732.
- Shaw, W. J., T. P. Stanton, and M. G. McPhee, 2008, Estimates of surface roughness length in heterogeneous under-ice boundary layers, *J. Geophys. Res.*, 113, C08030, 10.1029/2007JC004550.
- Shaw, W. J., T. P. Stanton, M. G. McPhee, J. H. Morison, and D. G. Martinson, 2009, The Role of the Upper Ocean in the Energy Budget of Arctic Sea Ice During SHEBA, *J. Geophys. Res.*, doi:10.1029/2008JC004991
- Stanton, T. P. and L. Ostrovsky, 1998. Observations of highly nonlinear, tidally forced solitons over the continental shelf. *GeoPhys. Res. Lett.* Vol25, No 14, 2695, 2698.
- Stanton, T. P., C. S. Law and A. J. Watson, 1998. Physical Evolution of the IRONEX-I Open Ocean Tracer Patch. *Deep-Sea Research II*, 45, 947-976.

**KEYWORDS/TECHNOLOGIES:**

- **Keywords:** Ocean turbulence, Polar ocean fluxes, Surface waves, Internal waves, Solitons, Wave breaking, Sediment transport

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