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Coupled Oceanic and Atmospheric Boundary Layers, A Research Project Outline

Chu, Peter C.

1986-1990, Co- Principal Investigator, Coupled Oceanic and Atmospheric Boundary Layers, Naval Postgraduate School Direct Fund (Reviewed by the Office of Naval Research)
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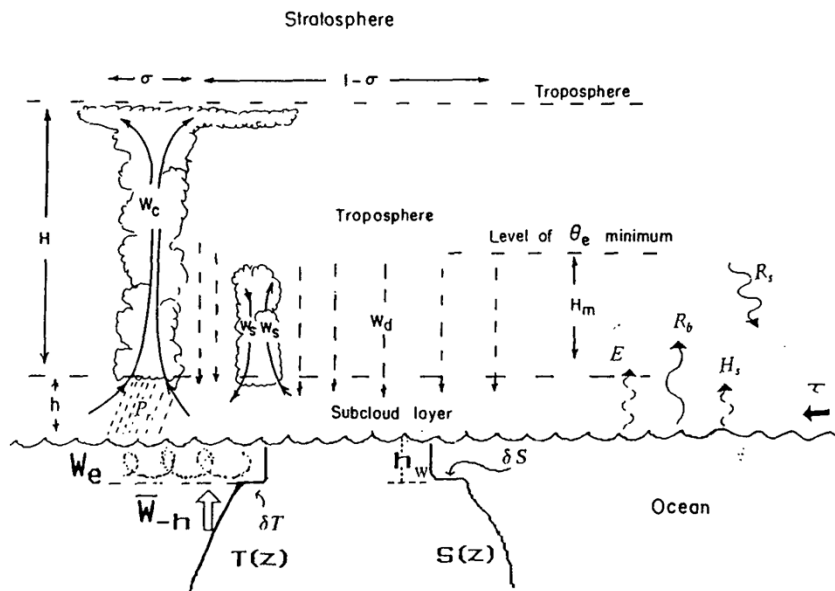
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Coupled Oceanic and Atmospheric Boundary Layers

Co-PI: Peter C. Chu (pcchu@nps.edu), Sponsor: NPS Direct Fund (Reviewed by ONR)
1986-1990, Funding Level: ~\$600,000



Brief Description

To explore positive and negative feedback mechanisms between oceanic and atmospheric boundary layers

NPS Theses

Livezey, M. S., "Discrete precipitation effects on seasonal mixed layer dynamics in the north Pacific," MS in METOC, September 1988.

Tucker, A., "Evaporation effect on the Mediterranean Sea mixed layer dynamics," MS in PO, September 1988.

Tsai, C.-M., "Sub-mesoscale eddies in California Current", MS in PO, June 1990.

Selected Publications

(1) Chu, P.C., R.W. Garwood, Jr., and P. Muller, 1990: Unstable and damped modes in coupled ocean mixed layer and cloud models. *Journal of Marine Systems*, **1**, 1-11 ([paper download](#)).

(2) Chu, P.C., 1987: Generation of unstable modes of the iceward attenuating swell by icebreeze. *Journal of Physical Oceanography*, **17**, 828-832 ([paper download](#)).

(3) Chu, P.C., 1987: An instability theory of ice-air interaction for the formation of ice-edge bands. *Journal of Geophysical Research*, **92**, 6966-6970 ([paper download](#)).

(4) Chu, P.C., 1987: An icebreeze mechanism for an ice divergence-convergence criterion in the marginal ice zone. *Journal of Physical Oceanography*, **17**, 1627-1632 ([paper download](#)).