

Jamie Hilditch

Postdoctoral Scholar, Earth System Science

Bio

STANFORD ADVISORS

- Leif Thomas, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Symmetric instability drives exchange between surface and bottom waters in a coastal front.** *Science advances*
Körner, M., Cusack, J. M., Nash, J., Shearman, R. K., Thomas, L. N., MacKinnon, J., Hsu, F. H., Taylor, J., Liu, J., Hilditch, J. P.
2026; 12 (19): eaeb9841
- **Trapping of near-inertial waves and critical layer formation in baroclinic currents** *JOURNAL OF FLUID MECHANICS*
Hilditch, J. P., Thomas, L. N.
2026; 1031
- **Observations of Subduction, Downward Heat Flux and Dense Filament Collapse in the Northern Gulf of Mexico** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Hilditch, J. P., Bergentz, K., Northcott, D., Luko, C., Cohanim, K., Schlichting, D., Sanchez-rios, A., Weiss, K., Hetland, R., MacKinnon, J., Nash, J., Shearman, R., Thomas, et al
2025; 130 (11)
- **Refraction of near-inertial waves by submesoscale vorticity filaments** *JOURNAL OF FLUID MECHANICS*
Hilditch, J. P., Taylor, J. R., Thomas, L. N.
2025; 1020
- **Expected correlation in time-series analysis.** *Physical review. E*
MacMillan, T., Hilditch, J. P., Ouellette, N. T.
2025; 111 (2-1): 024121
- **Blocked Drainpipes and Smoking Chimneys: Discovery of New Near-Inertial Wave Phenomena in Anticyclones** *Oceanography*
Thomas, L. N., Moum, J. N., Qu, L., Hilditch, J. P., Kunze, E., Rainville, L., Lee, C. M.
2024
- **Parametric subharmonic instability of inertial shear at ocean fronts** *JOURNAL OF FLUID MECHANICS*
Hilditch, J. P., Thomas, L. N.
2023; 966