



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in February 1998

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Anderson, Steven P. and Mark F. Baumgartner.

Radiative heating errors in naturally ventilated air temperature measurements made from buoys. *J.Atmos.Oceanic Tech.*, **15**:157-173, 1998.

Contracts: ONR N00014-94-10161, NSF OCE91-10559.

Department of WHOI Author: PO.

Contribution Number: **9482**

Celander, Malin and John J. Stegeman.

Isolation of a cytochrome P450 3A cDNA sequence (CYP3A30) from the marine teleost *fundulus heteroclitus* and phylogenetic analyses of *CYP3A* genes.

Biochem.Biophys.Research Comm., **236**:306-312, 1997.

Contracts: Swedish Council of Forest & Agricultural Research,
Sea Grant NA46RG0470 R/P60.

Department of WHOI Author: BIO.

Contribution Number: **9447**

Duda, Timothy F. and D. Andrew Trivett.

Predicted scattering of sound by diffuse hydrothermal vent plumes at mid-ocean ridges. *J.Acoust.Soc.Am.*, **103**(1):330-335, 1998.

Contracts: Mellon Foundation.

Department of WHOI Author: AOPE.

Contribution Number: **9256**

Guiney, Patrick D., Roxanna M. Smolowitz, Richard E. Peterson, and John J. Stegeman.

Induction and post-transcriptional suppression of hepatic cytochrome P450 1A 1 by 3,3',4,4' -tetrachlorobiphenyl. *Toxicol.Appl.Pharmacol.*, **143**:256-273, 1997.
Contracts: EPA R817988, NIH ES 17381-01, Air Force AFOSR F-496-20-94-1-0368, WHOI Sea Grant NA46RG0470, R/P53, Superfund Basic Research Program Grant.
Department of WHOI Author: BIO.
Contribution Number: **9164**

Gunther, Andrew J., Robert B. Spies, John Stegeman, Bruce Woodin, Diane Carney, James Oakden, and Leslie Hain.

EROD activity in fish as an independent measure of contaminant-induced mortality of invertebrates in sediment bioassays. *Mar.Environ.Res.*, **44**(1):41-49, 1997.
Department of WHOI Author: BIO.
Contribution Number: **NONE**

Joyce, Terry M., James R. Luyten, Alexander Kubryakov, Frank B. Bahr, and Julie S. Pallant.

Meso- to large scale structure of subducting water in the subtropical gyre of the eastern North Atlantic Ocean. *J.Phys.Oceanogr.*, **28**:40-61, 1998.
Contracts: ONR N00014-91-J-1585, ONR N00014-91-J-1508, ONR N00014-91-J-1425.
Department of WHOI Author: PO.
Contribution Number: **9137**

Marty, G.D., J.W. Short, D.M. Dombach, N.H Willits, R.A. Heintz, S.D. Rice, J.J. Stegeman, and D.E. Hinton.

Ascites, premature emergence, increased gonadal cell apoptosis, and cytochrome P4501A induction in pink salmon larvae continuously exposed to oil-contaminated gravel during development. *CanadianJ. Zool.*, **75**(6):989-1007, 1997.
Department of WHOI Author: BIO.
Contribution Number: **NONE**

Mizell, Merle, John J. Stegeman, Eric Romig, Roxanna Smolowitz, Jennifer Schlezinger, Rajesh Katayani, Bruce Woodin, and Melissa Mortensen.

Chemically induced cardiovascular defects in developmental stages of vertebrates: dose-response and phenotypic comparisons in Medaka and Zebrafish exposed to aryl hydrocarbon receptor agonists. *Biol.Bull.*, **191**:294-295, 1996.
Contracts: AFOSR-F49620-94-1-0368, Sea Grant NA4646RG0470, R/P-60.
Department of WHOI Author: BIO.
Contribution Number: **NONE**

Mizell, Merle, Eric Romig, John Stegeman, Roxanna Smolowitz, and Rajesh Katayani.

Zebrafish embryo monitoring of the aquatic environment: dose-response synergism revealed in combinations of pollutant chemical mixtures.

Biol.Bull., **191**:292-294, 1996.

Contracts: AFOSR-F49620-94-1-0368, Sea Grant NA46RG0470, R/P-60.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

Plueddemann, A. J., R. Krishfield, T. Takazawa, K. Hatakeyama, and S. Honjo.

Upper ocean velocities in the Beaufort Gyre.

Geophys.Res.Lett., **25**(2):183-186, 1998.

Contracts: ONR N00014-97-1-0135, ONR-N00014-92-1-4950, JAMSTEC.

Department of WHOI Author: PO.

Contribution Number: **9589**

Ravizza, G., C.E. Martin, C.R. German, and G. Thompson.

Os isotopes as tracers in seafloor hydrothermal systems: Metalliferous deposits from the TAG hydrothermal area, 26⁰ N Mid-Atlantic Ridge.

Earth Planet.Sci.Lett., **138**:105-119, 1996.

Contracts: NSF OCE93-01049.

Department of WHOI Author: GEOL.

Contribution Number: **9050**

Stanton, Timothy K., Dezhang Chu, and Peter H. Wiebe.

Influence of material properties of several zooplankton groups on acoustic scattering properties. *J.Acoust.Soc.Am.*, **103**(1):225-235, 1998.

Contracts: ONR N00014-89-J-1729, NSF OCE92-01264.

Department of WHOI Author: AOPE.

Contribution Number: **8813**

Stanton, Timothy K., Dezhang Chu, and Peter H. Wiebe.

Sound scattering by several zooplankton groups. II: Scattering models.

J.Acoust.Soc.Am., **103**(1):236-253, 1998.

Contracts: ONR N00011-89-J-1729, ONR N00011-95-1-0187,

ONR N00014-94-1-0452, NSF OCE-9201264.

Department of WHOI Author: AOPE.

Contribution Number: **9198**

Stanton, Timothy K., Peter H. Wiebe, and Dezhang Chu.

Differences between sound scattering by weakly scattering spheres and finite-length cylinders with applications to sound scattering by zooplankton.

J.Acoust.Soc.Am., **103**(1):254-264, 1998.

Contracts: ONR N00014-95-1-0287, NSF OCE-9201264.

Department of WHOI Author: AOPE.

Contribution Number: **9467**

Stegeman, John J., Marjorie F. Oleksiak, Bruce R. Woodin, Hanuman Singh, Malin Celander, Nicholas H. Vrolijk, and Nancy M. Targett.

Cytochromes P450 (CYP) in tropical fishes: Catalytic activities, expression of multiple CYP proteins and high levels of hepatic microsomal P450 in fishes from Bermuda.

Comp.Biochem.Physiol.-C: Comp. Pharm.Toxicol., **116**(1):61-75, 1997.

Contracts: NSF OCE80-18569, NSF OCE83-10505, NSF OCE93-14531, NSF OCE92-12979, USPHS ES-04220 - Bermuda Biological Station, Swedish Council for Forestry and Agricultural Research

Department of WHOI Author: BIO.

Contribution Number: **9025**

Steinhauer, W.G., C.D. Hunt, C.S. Peven, R.E. Hillman, M.J. Moore, J.J. Stegeman, and D. Redford.

Contaminants and cytochrome P4501A induction in bottom fish collected near the 106-mile site. *J.Mar. Environ Eng.*, **3**(2-4):173-187, 1997.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

Trowbridge, J. H.

Notes and correspondence on a technique for measurement of turbulent shear stress in the presence of surface waves.

J.Atmos.Ocean.Technol., **15**:290-298, 1998.

Contracts: ONR N00014-95-1-0112, ONR N00014-92-J-1230.

Department of WHOI Author: AOPE.

Contribution Number: **9381**

Van Veld, Peter A., Wolfgang K. Vogelbein, Maria K. Cochran, Anders Goksoyr, and John J. Stegeman.

Route-specific cellular expression of cytochrome P405 1A (CYP1A) in fish (*Fundulus heteroclitus*) following exposure to aqueous and dietary benzoapyrene.

Toxicol.Appl.Pharmacol., **142**:348-359, 1997.

Contracts: MD Dept. of Nat. Res. Power Plant Research Prog.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

Voulgaris, G. and J.H. Trowbridge.

Evaluation of the acoustic doppler velocimeter (ADV) for turbulence measurements. *J.Atmos.Ocean.Technol.*, **15**(1):272-289, 1998.

Contracts: Post-Doc Scholar award - WHOI, ONR Coastal Sciences Program.

Department of WHOI Author: GEOL.

Contribution Number: **9300**

White, Renee D., Damian Shea, Andrew R. Solow, and John J. Stegeman.

3,3',4,4'-Tetrachlorobiphenyl elicits transcriptional induction and post-transcriptional suppression of cytochrome P4501A1 in teleost liver *in vivo*.

Biochemical Pharmacol., **53**:1029-1040, 1997.

Contracts: NIH P30ES02109, EPA R817988, Sea Grant NA90-AA-D-SG480.

Department of WHOI Author: BIO.

Contribution Number: **9043**

Wiedmer, Michael, Mark J. Fink, John J. Stegeman, Roxanna Smolowitz, Gary D. Marty, and Jdavid E. Hinton.

Cytochrome P-450 induction and histopathology in preemergent pink salmon from oiled spawning sites in Prince William Sound.. *In: Am.Fish.Soc.Symp.* Stanley D. Rice et al eds. Proceedings of the Exxon Valdez oil spill symposium, Anchorage, Alaska. 2-5 February, 1993, **18**:509-517, 1996.

Contracts: State of Alaska.

Department of WHOI Author: BIO.

Contribution Number: **8600**

Yang, Jiayan and J. David Neelin.

Sea-ice interaction and the stability of the thermohaline circulation.

Atmos-Ocean, **35**(4):433-469, 1997.

Contracts: NOAA GC95-054.

Department of WHOI Author: PO.

Contribution Number: **9015**

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