



**MEDITERRANEAN ACTION PLAN  
MED POL**

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**UNITED NATIONS ENVIRONMENT PROGRAMME**

**BIBLIOGRAPHY  
ON  
AQUATIC POLLUTION BY ORGANOPHOSPHORUS COMPOUNDS**

**compiled by Athena Davaki**

**MAP Technical Reports Series No. 44**

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**This volume is the forty-fourth issue of the Mediterranean Action Plan Technical Reports Series.**

**This series contains selected reports resulting from the various activities performed within the framework of the components of the Mediterranean Action Plan: Pollution Monitoring and Research Programme (MED POL), Blue Plan (BP), Priority Actions Programme (PAP), Specially Protected Areas (SPA) and Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC).**

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## INTRODUCTION

The Bibliography on Aquatic Pollution by Organophosphorus Compounds is one of the series of specialized bibliographies compiled by the UNEP Co-ordinating Unit for the Mediterranean Action Plan (MEDU), with the support of the Oceans and Coastal Areas Programme (OCA/PAC) of UNEP, and constitutes the MEDLIB database.

A bibliography on Effects of Climatic Change and Related Topics containing 1407 references, was published in June of 1989 as MAP Technical Reports Series No. 29, and one on Pollution by Organotin Compounds with 707 references as MAP Technical Reports Series No. 35. A bibliography on Marine Litter is under preparation.

This volume of 870 references, includes citations from monographs, technical reports, periodicals, and bibliographies in the MEDU library collection, and from "on line" literature searches undertaken by the National Documentation Centre of the National Hellenic Research Foundation, Athens. Databases searched "on-line" were:

- ASFA
- Biological Abstracts (BIOSIS)
- CAB Abstracts
- Chemical Abstracts
- Enviroline
- Oceanic Abstracts
- Pollution Abstracts
- Toxline

Material retrieved was checked against the original or other sources. The criterion on the basis of which the selection was made was the need to include all references concerning the Mediterranean, however limited in number, or in giving examples of methodological approaches which could be used in Mediterranean studies.

The time span for "on-line" literature searches was limited to post-1983. However, several pre-1983 references of particular interest and all specific references to the Mediterranean have been included. A draft of this bibliography was sent to a number of scientists, experts in the field. Their comments and contributions have been considered.

An IBM PC/AT compatible, equipped with the software Micro-CDS/ISIS was used for the compilation of this bibliography and for the compilation and management of the MEDLIB database. The database may be queried, and deposited references may be retrieved to produce specialized literature searches on request.

In the Author bibliography that follows this introduction, each reference is cited by Personal Author or Corporate Body, followed by the Year of publication; the Title, Source of publication, with volume, issue number and inclusive pages in case of a periodical; Title and other pertinent information, pages and editor in the case of a monograph, proceedings of a conference, or technical report; Document No., where it applies, and publication details. Each bibliographic entry has been assigned a number by which it is listed in the subject/keyword index.

The eight main subject areas covered, are listed below:

1. Analysis/Analytical methods
2. Effects/Toxicity
3. Levels
4. Fate/Environmental transformation
5. Sources
6. Control
7. General
8. Geographic area

Descriptors relevant to each main subject area are listed under the main subject headings. Publications containing references to more than one subject appear under more than one descriptor since the retrieval of records has been done electronically, by means of a keyword either assigned in the descriptor field or contained in the title.

It is hoped that this bibliography will be of use to scientists in the field.

Athena Davaki

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## SUBJECT/KEYWORD INDEX

Eight main subject headings are listed below. Relevant descriptors are listed under each main subject heading. Entries containing references to more than one subject heading appear under more than one keyword/descriptor.

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- Seawater
- Sediment

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- Freshwater ecosystems
- Brackishwater/Estuarine ecosystems
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- Birds
- Mammals
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- Crustacea
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Regulatory action  
Reclamation  
Economic impact

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Models; Modelling; Experimental methods; Pollution, general; Monitoring

## 8. GEOGRAPHIC AREAS

### Mediterranean

Adriatic  
Egypt  
France  
Greece  
Israel  
Italy  
Malta  
Spain  
Turkey  
Yugoslavia

### Non-Mediterranean

Africa  
Australia  
Bulgaria  
Canada  
China  
Czechoslovakia  
Denmark  
England  
Germany  
Hong Kong  
Hungary  
Japan  
Kuwait  
Mexico  
Netherlands  
Poland  
Portugal  
Romania  
Switzerland  
Thailand  
United States

## 1. Analysis/Analytical methods

### Biota

0064, 0065, 0119, 0129, 0163, 0270, 0286, 0380, 0414, 0446, 0492, 0516, 0587, 0588, 0589, 0842

### Freshwater

0002, 0017, 0041, 0061, 0088, 0090, 0110, 0119, 0163, 0201, 0217, 0224, 0241, 0248, 0265, 0276, 0286, 0294, 0325, 0336, 0397, 0399, 0413, 0414, 0425, 0448, 0464, 0465, 0490, 0492, 0496, 0516, 0584, 0587, 0588, 0589, 0626, 0651, 0705, 0761, 0764, 0775, 0788, 0789, 0797, 0846, 0857, 0864, 0865, 0867

### Seawater

0310, 0375, 0393, 0446, 0581, 0826, 0846, 0857

### Sediment

0079, 0119, 0249, 0264, 0270, 0278, 0336, 0377, 0387, 0399, 0413, 0474, 0492, 0517, 0764, 0846

## 2. Effects/Toxicity

### Marine ecosystems

0010, 0022, 0050, 0103, 0105, 0112, 0144, 0164, 0182, 0196, 0198, 0200, 0204, 0210, 0215, 0223, 0230, 0266, 0268, 0279, 0284, 0304, 0314, 0327, 0331, 0337, 0352, 0360, 0376, 0378, 0385, 0392, 0442, 0495, 0500, 0503, 0555, 0569, 0578, 0599, 0601, 0609, 0610, 0637, 0641, 0656, 0657, 0659, 0660, 0683, 0718, 0736, 0738, 0739, 0740, 0741, 0743, 0744, 0745, 0746, 0751, 0765, 0767, 0778, 0780, 0784, 0792, 0811, 0813, 0825, 0838

### Freshwater ecosystems

0001, 0004, 0006, 0008, 0009, 0011, 0018, 0021, 0024, 0026, 0027, 0028, 0029, 0031, 0033, 0034, 0035, 0036, 0037, 0038, 0042, 0043, 0044, 0058, 0073, 0074, 0075, 0076, 0077, 0078, 0084, 0090, 0092, 0093, 0094, 0095, 0098, 0100, 0110, 0119, 0123, 0124, 0127, 0128, 0133, 0134, 0135, 0136, 0137, 0142, 0143, 0146, 0149, 0155, 0160, 0161, 0166, 0172, 0174, 0175, 0176, 0177, 0178, 0189, 0192, 0193, 0194, 0195, 0198, 0199, 0201, 0202, 0203, 0204, 0208, 0216, 0219, 0221, 0227, 0228, 0232, 0236, 0237, 0238, 0244, 0246, 0250, 0251, 0252, 0253, 0255, 0256, 0257, 0258, 0259, 0261, 0269, 0271, 0274, 0280, 0282, 0285, 0286, 0287, 0288, 0291, 0292, 0297, 0298, 0299, 0306, 0307, 0308, 0312, 0313, 0316, 0317, 0318, 0327, 0328, 0332, 0334, 0335, 0340, 0344, 0345, 0346, 0347, 0348, 0353, 0355, 0356, 0362, 0363, 0364, 0369, 0370, 0373, 0374, 0378, 0379, 0381, 0382, 0383, 0386, 0389, 0390, 0392, 0395, 0398, 0401, 0405, 0406, 0407, 0408, 0409, 0410, 0411, 0415, 0416, 0418, 0419, 0436, 0439, 0441, 0443, 0455, 0456, 0462, 0463, 0468, 0469, 0470, 0471, 0475, 0476, 0478, 0480, 0484, 0492, 0497, 0498, 0501, 0502, 0504, 0506, 0507, 0509, 0510, 0513, 0515, 0516, 0521, 0522, 0524, 0533, 0534, 0535, 0536, 0537, 0539, 0540, 0545, 0546, 0547, 0548, 0550, 0552, 0555, 0557, 0558, 0559, 0560, 0561, 0562, 0563, 0564, 0565, 0566, 0567, 0568, 0569, 0570, 0571, 0572, 0573, 0575, 0576, 0577, 0578, 0579, 0580, 0582, 0587, 0588, 0589, 0594, 0595, 0596, 0597, 0598, 0599, 0604, 0605, 0608, 0611, 0613, 0614, 0615, 0616, 0617, 0618, 0620, 0621, 0623, 0624, 0625, 0626, 0629, 0631, 0632, 0633, 0634, 0635, 0640, 0642, 0645, 0652, 0654, 0655, 0658, 0661, 0664, 0668, 0670, 0672, 0674, 0676, 0678, 0679, 0684, 0687, 0689, 0691, 0692, 0697, 0699, 0700, 0701, 0702, 0703, 0705, 0706, 0707, 0708, 0710, 0711, 0712, 0713, 0721, 0725, 0727, 0728, 0729,



0730, 0731, 0732, 0733, 0735, 0742, 0747, 0748, 0749, 0754, 0757, 0760, 0762, 0767, 0768, 0770, 0774, 0777, 0779, 0783, 0795, 0797, 0802, 0803, 0805, 0806, 0807, 0808, 0810, 0812, 0815, 0820, 0824, 0828, 0832, 0833, 0837, 0847, 0849, 0853, 0854, 0855, 0859, 0861, 0862, 0868, 0869

#### Brackishwater/Estuarine ecosystems

0010, 0098, 0144, 0152, 0153, 0154, 0164, 0167, 0182, 0198, 0200, 0228, 0233, 0249, 0267, 0270, 0292, 0312, 0313, 0390, 0461, 0483, 0492, 0512, 0548, 0555, 0581, 0612, 0646, 0670, 0680, 0681, 0718, 0725, 0734, 0739, 0740, 0741, 0745, 0746, 0765, 0777, 0782, 0837, 0838, 0839

#### Fish

0004, 0006, 0007, 0011, 0022, 0026, 0027, 0028, 0029, 0031, 0032, 0033, 0034, 0035, 0036, 0042, 0043, 0044, 0045, 0050, 0058, 0071, 0075, 0076, 0077, 0078, 0080, 0081, 0084, 0085, 0086, 0087, 0092, 0093, 0094, 0095, 0100, 0103, 0123, 0127, 0128, 0133, 0134, 0135, 0136, 0139, 0142, 0149, 0154, 0155, 0160, 0166, 0167, 0172, 0174, 0176, 0178, 0194, 0195, 0196, 0199, 0203, 0205, 0221, 0222, 0226, 0234, 0245, 0251, 0253, 0254, 0255, 0256, 0257, 0258, 0259, 0267, 0268, 0269, 0274, 0280, 0282, 0283, 0284, 0285, 0286, 0287, 0288, 0291, 0292, 0298, 0305, 0306, 0307, 0308, 0311, 0313, 0318, 0319, 0334, 0340, 0345, 0346, 0347, 0355, 0356, 0363, 0370, 0373, 0374, 0379, 0381, 0382, 0383, 0386, 0389, 0390, 0395, 0396, 0398, 0401, 0405, 0407, 0409, 0410, 0411, 0415, 0416, 0437, 0438, 0439, 0443, 0452, 0456, 0467, 0468, 0470, 0475, 0476, 0478, 0480, 0484, 0493, 0495, 0497, 0498, 0501, 0503, 0504, 0509, 0512, 0513, 0524, 0526, 0532, 0533, 0534, 0535, 0536, 0539, 0540, 0545, 0547, 0550, 0557, 0562, 0563, 0565, 0566, 0568, 0569, 0570, 0571, 0572, 0573, 0576, 0577, 0578, 0580, 0582, 0594, 0595, 0596, 0597, 0598, 0604, 0608, 0611, 0612, 0614, 0615, 0616, 0620, 0623, 0624, 0629, 0631, 0632, 0633, 0637, 0645, 0652, 0654, 0655, 0661, 0662, 0664, 0672, 0674, 0676, 0684, 0687, 0690, 0691, 0692, 0697, 0700, 0701, 0705, 0706, 0707, 0708, 0710, 0711, 0747, 0748, 0749, 0750, 0751, 0756, 0757, 0767, 0768, 0774, 0777, 0782, 0783, 0797, 0803, 0805, 0806, 0807, 0808, 0810, 0824, 0832, 0833, 0838, 0839, 0840, 0849, 0853, 0854, 0855, 0868, 0869

#### Birds

0113, 0150, 0181, 0235, 0309, 0316, 0352, 0365, 0366, 0378, 0385, 0386, 0420, 0557, 0716, 0800, 0801

#### Mammals

0083, 0085, 0086, 0087, 0100, 0109, 0119, 0180, 0181, 0315, 0320, 0357, 0378, 0427, 0516, 0821

#### Human health

0056, 0059, 0119, 0130, 0156, 0185, 0187, 0192, 0209, 0262, 0300, 0315, 0319, 0329, 0339, 0357, 0358, 0359, 0367, 0368, 0372, 0403, 0404, 0427, 0431, 0472, 0473, 0477, 0516, 0585, 0586, 0592, 0607, 0636, 0638, 0714, 0753, 0773, 0787, 0790, 0791, 0841, 0842, 0844

### 3. Levels

#### Seawater

0115, 0361, 0375, 0786, 0819, 0846

#### Freshwater

0001, 0013, 0017, 0026, 0028, 0029, 0040, 0100, 0110, 0111, 0127, 0128, 0166, 0186, 0217, 0218, 0241, 0248, 0258, 0259, 0308, 0322, 0381, 0425, 0448, 0454, 0460, 0480, 0518, 0520, 0523, 0540, 0557, 0617, 0674, 0735, 0749, 0766, 0769, 0788, 0789, 0846, 0851, 0853, 0854, 0864

#### Benthos

0218, 0518

#### Crustacea

0001, 0284, 0361, 0391, 0735, 0772

#### Molluscs

0551, 0617, 0769

#### Fish

0026, 0028, 0029, 0040, 0045, 0100, 0111, 0127, 0128, 0166, 0186, 0258, 0259, 0284, 0308, 0322, 0381, 0480, 0517, 0520, 0523, 0540, 0557, 0674, 0749, 0759, 0766, 0853, 0854, 0864

#### Sediment

0100, 0111, 0115, 0388, 0482, 0517, 0518, 0519, 0653, 0759, 0846

### **4. Fate/Environmental transformation**

#### Accumulation/Bioaccumulation

0030, 0111, 0130, 0147, 0186, 0212, 0251, 0274, 0303, 0335, 0375, 0392, 0417, 0437, 0526, 0543, 0580, 0599, 0639, 0648, 0687, 0717, 0759, 0767, 0769, 0837

#### Adsorption/Sorption

0047, 0131, 0341, 0424, 0451, 0516, 0553, 0628, 0695

#### Degradation/Biodegradation

0015, 0101, 0119, 0138, 0168, 0173, 0301, 0321, 0335, 0351, 0371, 0418, 0450, 0458, 0492, 0494, 0499, 0516, 0526, 0556, 0591, 0599, 0602, 0603, 0650, 0662, 0663, 0696, 0717, 0725, 0793, 0799, 0823, 0829, 0845

#### Metabolism

0030, 0085, 0087, 0186, 0197, 0238, 0243, 0302, 0392, 0417, 0418, 0767, 0769, 0772, 0856

## 5. Sources

### Pesticides

0017, 0069, 0072, 0097, 0111, 0120, 0121, 0124, 0156, 0161, 0163, 0170, 0185, 0201, 0202, 0209, 0221, 0226, 0240, 0262, 0287, 0295, 0300, 0322, 0324, 0325, 0326, 0353, 0366, 0376, 0388, 0403, 0404, 0432, 0433, 0434, 0438, 0448, 0453, 0454, 0456, 0460, 0477, 0482, 0487, 0500, 0505, 0541, 0542, 0550, 0556, 0557, 0578, 0587, 0601, 0626, 0634, 0652, 0663, 0673, 0698, 0715, 0750, 0759, 0782, 0786, 0822, 0826, 0827, 0828, 0830, 0841, 0849, 0851, 0868, 0870

### Agriculture

0013, 0069, 0097, 0098, 0111, 0112, 0115, 0126, 0130, 0155, 0156, 0161, 0185, 0201, 0202, 0204, 0240, 0281, 0300, 0324, 0326, 0327, 0353, 0366, 0376, 0403, 0404, 0413, 0427, 0432, 0438, 0454, 0482, 0487, 0492, 0512, 0550, 0557, 0583, 0601, 0626, 0634, 0663, 0673, 0714, 0715, 0719, 0758, 0795, 0827, 0828, 0830, 0851, 0863

### Industry

0007, 0012, 0050, 0112, 0115, 0124, 0183, 0204, 0282, 0287, 0288, 0290, 0295, 0316, 0319, 0352, 0388, 0424, 0433, 0434, 0439, 0456, 0477, 0487, 0493, 0512, 0513, 0516, 0551, 0556, 0592, 0622, 0652, 0751, 0773, 0795, 0819, 0820, 0826, 0841

### Domestic

0017, 0163, 0183, 0295, 0487, 0551, 0750, 0819, 0820

### Runoff

0492, 0673, 0782, 0843, 0851

## 6. Control

### Alternative product/method

0054, 0055, 0082, 0098, 0132, 0335, 0394, 0402, 0643, 0644

### Regulatory action

0021, 0116, 0183, 0188, 0200, 0272, 0295, 0384, 0431, 0440, 0512, 0556, 0639, 0787, 0790, 0791, 0794, 0844

### Reclamation

0162, 0165, 0242, 0248, 0249, 0272, 0296, 0323, 0328, 0350, 0389, 0433, 0434, 0440, 0444, 0447, 0481, 0530, 0579, 0607, 0622, 0693, 0781

### Economic impact

0055, 0183, 0184, 0350, 0430, 0457, 0793

## 7. General

Models; Modelling; Experimental methods; Pollution, general; Monitoring

0002, 0005, 0016, 0017, 0021, 0046, 0056, 0069, 0072, 0074, 0083, 0098, 0104, 0105, 0106, 0107, 0112, 0118, 0119, 0121, 0122, 0124, 0127, 0142, 0145, 0147, 0152, 0161, 0162, 0173, 0177, 0187, 0198, 0200, 0204, 0214, 0219, 0220, 0225, 0229, 0239, 0245, 0246, 0247, 0259, 0260, 0262, 0271, 0272, 0277, 0281, 0289, 0296, 0312, 0313, 0326, 0329, 0330, 0332, 0333, 0341, 0343, 0367, 0368, 0379, 0400, 0401, 0405, 0421, 0432, 0433, 0456, 0475, 0479, 0481, 0487, 0488, 0491, 0492, 0493, 0495, 0499, 0512, 0524, 0525, 0532, 0543, 0544, 0551, 0552, 0554, 0555, 0556, 0578, 0580, 0590, 0591, 0599, 0626, 0629, 0633, 0636, 0643, 0649, 0665, 0666, 0672, 0675, 0676, 0677, 0685, 0693, 0712, 0714, 0715, 0717, 0720, 0722, 0723, 0724, 0751, 0752, 0754, 0759, 0773, 0779, 0784, 0794, 0795, 0796, 0797, 0798, 0799, 0800, 0801, 0804, 0809, 0816, 0818, 0822, 0826, 0828, 0831, 0836, 0841, 0842, 0843, 0848, 0850, 0860, 0863, 0870

## 8. Geographic areas

Mediterranean

Adriatic

0112, 0190, 0337

Egypt

0050, 0815, 0819, 0820

France

0490, 0714, 0778

Greece

0013, 0788

Israel

0091, 0815, 0851

Italy

0248

Malta

0787

Spain

0025, 0127, 0128, 0505

Turkey

0787

Yugoslavia

0011, 0787

Non-Mediterranean

Africa

0036, 0191, 0193

Australia

0098

Bulgaria

0787

Canada

0040, 0048, 0111, 0119, 0120, 0121, 0122, 0131, 0156, 0170, 0212, 0213, 0221, 0239, 0240, 0241, 0289, 0295, 0296, 0322, 0386, 0422, 0437, 0438, 0440, 0453, 0460, 0511, 0758, 0759, 0795, 0835

China

0434

Czechoslovakia

0787

Denmark

0352, 0714

England

0294, 0622, 0714, 0781, 0788, 0789

Germany

0242, 0276, 0290, 0389, 0714

Hong Kong

0846

Hungary

0019, 0020, 0052, 0273, 0275, 0293, 0787, 0816, 0817

Japan

0297, 0311, 0365, 0370, 0375, 0485, 0698, 0773, 0858, 0861

Kuwait

0012

Mexico

0551

Netherlands

0188, 0242, 0276, 0424, 0653, 0714

Poland

0787

Portugal

0787

Romania

0787

Switzerland

0021, 0290, 0513, 0554

Thailand

0327

United States

0014, 0038, 0072, 0078, 0115, 0140, 0153, 0181, 0183, 0184, 0218, 0262, 0268, 0272, 0295, 0296,  
0304, 0326, 0376, 0384, 0402, 0428, 0430, 0431, 0440, 0482, 0512, 0531, 0537, 0541, 0550, 0551,  
0552, 0557, 0581, 0583, 0603, 0651, 0717, 0719, 0751, 0765, 0782, 0790, 0791, 0794, 0795, 0828,  
0864

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