



**MEDITERRANEAN ACTION PLAN
MED POL**

UNITED NATIONS ENVIRONMENT PROGRAMME

**BIBLIOGRAPHY
ON
MARINE LITTER**

Compiled by Athena Davaki

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Note: This document is not an official publication but a compilation of information on marine litter intended to facilitate communications and the sharing of knowledge among researchers co-operating within the framework of UNEP Regional Seas Action Plans as well as to improve awareness of regional activities and capabilities.

The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of UNEP concerning the legal status of any State, territory, city or area, or of the authorities, or concerning the delimitation of their frontiers or boundaries.

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PNUE: Bibliographie sur les déchets marins. MAP Technical Reports Series No. 50. UNEP, Athens, 1991 (62 pages) (anglais seulement).

This volume is the fiftieth 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 Marine Litter is one of a 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, one on Pollution by Organotin Compounds with 707 references as MAP Technical Reports Series No. 35, and one on Aquatic Pollution by Organophosphorus Compounds containing 870 references as MAP Technical Reports Series No. 44.

This volume of 440 references, includes references contributed by scientists, experts in the field, 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
- Enviroline
- NTIS
- Oceanic Abstracts
- Pollution Abstracts

The time span for "on-line" literature searches was limited to post-1980. However, several pre-1980 references of particular interest and all specific references to the Mediterranean have been included.

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.

A draft of this bibliography was sent to a number of scientists, experts in the field. Their contributions have been included and their comments seriously considered.

An IBM PC/AT compatible, equipped with the software Micro-CDS/ISIS, developed by Unesco, was used for the compilation of this bibliography and for the organization and management of the Marine Litter 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 index.

The eight main subject areas covered, are listed below:

1. Impacts
2. Sources
3. Distribution
4. Types/amounts
5. Fate
6. Control/solutions
7. General
8. Geographic areas

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. 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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A.D.

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SUBJECT 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 descriptor.

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- Mammals
- Fishes
- Turtles
- Benthic organisms (Shellfish)
- Economic impacts
- Social impacts

2. SOURCES

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- Shipping
- Fishing
- Tourism (Pleasure crafts; Beachcombers)
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3. DISTRIBUTION

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- Sea surface
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- Netting
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5. FATE

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Regulatory action/legislation
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8. GEOGRAPHIC AREAS

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Greece
Israel
Italy
Lebanon
Malta
Morocco
Spain
Turkey

NON-MEDITERRANEAN

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Indian Ocean
Pacific Ocean
Southern Ocean

Arabian Gulf
Bering Sea
Black Sea
Caribbean Sea
Gulf of Mexico
North Sea
Red Sea
Sargasso Sea

Alaska
Antarctic
Canada
England
Hawaii
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Japan
Mexico
New Zealand
Portugal
Scotland
South Africa
Taiwan
United States

1. IMPACTS (Entanglement; Ingestion)

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Miscellaneous marine life

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Fishes

0017, 0039, 0050, 0053, 0057, 0064, 0069, 0077, 0082, 0097, 0138, 0145, 0168, 0196, 0210, 0216, 0232, 0233, 0241, 0242, 0245, 0254, 0281, 0283, 0393, 0394

Turtles

0009, 0044, 0050, 0062, 0064, 0080, 0081, 0084, 0089, 0092, 0138, 0145, 0162, 0163, 0186, 0196, 0211, 0215, 0224, 0238, 0245, 0253, 0279, 0283, 0288, 0292, 0303, 0333, 0340, 0373, 0391, 0393, 0394, 0423

Benthic organisms (Shellfish)

0030, 0082, 0210, 0245, 0309

Economic impacts

0014, 0069, 0074, 0077, 0100, 0103, 0144, 0145, 0182, 0189, 0266, 0320, 0333, 0350, 0363, 0364, 0368, 0380, 0382, 0384, 0385, 0394, 0414, 0425

Social impacts

0001, 0052, 0103, 0120, 0144, 0182, 0189, 0315, 0350, 0379, 0382, 0385, 0394, 0414

2. SOURCES

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0023, 0030, 0067, 0077, 0099, 0121, 0122, 0123, 0127, 0129, 0130, 0132, 0135, 0136, 0143, 0177, 0199, 0303, 0359, 0361, 0362, 0367, 0369, 0394, 0396, 0418, 0425, 0439

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Fishing

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Tourism (Pleasure crafts; Beachcombers)

0009, 0010, 0036, 0069, 0075, 0077, 0083, 0089, 0121, 0123, 0127, 0129, 0137, 0168, 0182, 0183, 0196, 0255, 0303, 0306, 0320, 0367, 0368, 0385, 0393, 0394, 0409

Mainland input

0023, 0031, 0032, 0034, 0035, 0055, 0062, 0077, 0121, 0123, 0125, 0127, 0129, 0137, 0168, 0177, 0183, 0244, 0274, 0306, 0315, 0327, 0367, 0369, 0385, 0393, 0394, 0404, 0413, 0425

3. DISTRIBUTION

Beaches

0001, 0010, 0013, 0014, 0016, 0031, 0034, 0035, 0036, 0037, 0055, 0062, 0077, 0078, 0083, 0099, 0110, 0118, 0119, 0121, 0123, 0127, 0128, 0129, 0130, 0131, 0134, 0135, 0136, 0137, 0138, 0144, 0149, 0168, 0171, 0179, 0182, 0183, 0188, 0189, 0190, 0192, 0197, 0199, 0200, 0208, 0225, 0237, 0238, 0252, 0259, 0260, 0267, 0269, 0270, 0274, 0275, 0283, 0285, 0289, 0298, 0304, 0306, 0309, 0315, 0318, 0327, 0333, 0337, 0338, 0341, 0345, 0350, 0359, 0360, 0361, 0362, 0368, 0370, 0372, 0379, 0380, 0381, 0382, 0389, 0393, 0394, 0395, 0397, 0404, 0406, 0409, 0413, 0414, 0425, 0438

Sea surface

0037, 0062, 0068, 0070, 0077, 0079, 0095, 0106, 0108, 0109, 0110, 0111, 0116, 0121, 0122, 0162, 0192, 0194, 0207, 0227, 0229, 0242, 0265, 0273, 0274, 0276, 0277, 0278, 0291, 0309, 0316, 0317, 0322, 0328, 0331, 0333, 0338, 0345, 0357, 0358, 0371, 0381, 0382, 0393, 0394, 0406, 0409, 0410, 0412, 0430, 0434

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0056, 0077, 0082, 0121, 0122, 0147, 0158, 0210, 0221, 0223, 0226, 0274, 0298, 0309, 0394, 0409, 0426

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0008, 0041, 0075, 0102, 0103, 0108, 0109, 0110, 0151, 0192, 0205, 0225, 0227, 0229, 0238, 0245, 0247, 0268, 0273, 0277, 0289, 0304, 0309, 0316, 0317, 0328, 0358, 0363, 0364, 0368, 0389, 0392, 0397, 0409, 0427, 0428

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0001, 0003, 0004, 0005, 0016, 0017, 0020, 0021, 0022, 0023, 0029, 0031, 0036, 0038, 0039, 0040, 0041, 0042, 0047, 0048, 0051, 0052, 0054, 0056, 0058, 0062, 0063, 0064, 0065, 0068, 0069, 0074, 0075, 0077, 0078, 0080, 0081, 0083, 0089, 0093, 0094, 0095, 0097, 0098, 0099, 0100, 0105, 0106, 0107, 0108, 0109, 0110, 0112, 0116, 0117, 0118, 0121, 0122, 0123, 0125, 0127, 0131, 0132, 0134, 0135, 0136, 0137, 0138, 0139, 0143, 0145, 0146, 0149, 0151, 0152, 0153, 0154, 0157, 0162, 0163, 0164, 0165, 0166, 0167, 0168, 0171, 0174, 0175, 0176, 0182, 0183, 0186, 0187, 0188, 0189, 0190, 0192, 0193, 0194, 0195, 0198, 0199, 0206, 0207, 0211, 0213, 0214, 0215, 0216, 0222, 0235, 0237, 0238, 0239, 0241, 0245, 0247, 0252, 0253, 0254, 0255, 0257, 0258, 0259, 0260, 0265, 0267, 0269, 0270, 0274, 0277, 0278, 0279, 0280, 0283, 0285, 0286, 0288, 0289, 0290, 0291, 0294, 0300, 0304, 0305, 0306, 0308, 0315, 0320, 0322, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0345, 0346, 0350, 0351, 0355, 0357, 0358, 0359, 0360, 0361, 0362, 0366, 0367, 0368, 0369, 0370, 0371, 0373, 0378, 0386, 0389, 0391, 0393, 0394, 0395, 0397, 0404, 0405, 0406, 0407, 0408, 0409, 0410, 0412, 0416, 0420, 0422, 0423, 0424, 0426, 0427, 0430, 0431, 0434, 0438, 0439, 0440

Fishing gear

0002, 0010, 0011, 0023, 0036, 0039, 0043, 0050, 0053, 0068, 0102, 0106, 0109, 0114, 0115, 0123, 0131, 0151, 0155, 0168, 0202, 0210, 0225, 0229, 0236, 0238, 0243, 0245, 0247, 0251, 0252, 0260, 0262, 0273, 0301, 0309, 0320, 0356, 0374, 0389, 0391, 0394, 0409, 0432

Netting

0002, 0005, 0010, 0011, 0012, 0015, 0037, 0038, 0041, 0043, 0050, 0053, 0061, 0062, 0066, 0072, 0082, 0092, 0097, 0105, 0106, 0109, 0114, 0115, 0131, 0142, 0151, 0152, 0153, 0154, 0155, 0159, 0168, 0170, 0173, 0184, 0202, 0203, 0204, 0205, 0207, 0225, 0227, 0230, 0236, 0240, 0243, 0245, 0250, 0251, 0252, 0259, 0260, 0268, 0269, 0270, 0272, 0273, 0281, 0282, 0299, 0301, 0305, 0309, 0319, 0340, 0347, 0355, 0370, 0374, 0375, 0376, 0383, 0389, 0392, 0393, 0394, 0397, 0410, 0422, 0435, 0436, 0437

Glass

0062, 0109, 0151, 0168, 0183, 0206, 0252, 0274, 0289, 0367, 0368, 0397, 0409

Wood

0010, 0062, 0109, 0123, 0131, 0134, 0137, 0158, 0168, 0183, 0213, 0221, 0223, 0226, 0273, 0274, 0289, 0372, 0394, 0409, 0438

Metal

0109, 0168, 0183, 0186, 0206, 0252, 0274, 0289, 0306, 0367, 0394

Styrofoam

0001, 0010, 0011, 0043, 0078, 0080, 0105, 0106, 0109, 0110, 0131, 0232, 0233, 0260, 0273, 0276, 0362, 0394, 0397, 0438

Rubber

0011, 0109, 0151, 0183, 0295, 0394

Clothing

0062, 0083, 0109, 0289, 0394, 0409

Other

0001, 0010, 0013, 0029, 0030, 0031, 0035, 0039, 0050, 0062, 0074, 0075, 0081, 0083, 0105, 0106, 0109, 0118, 0119, 0121, 0122, 0123, 0125, 0127, 0128, 0131, 0132, 0134, 0135, 0136, 0137, 0139, 0146, 0149, 0150, 0168, 0171, 0177, 0179, 0208, 0211, 0213, 0235, 0237, 0252, 0253, 0260, 0262, 0268, 0270, 0273, 0274, 0289, 0303, 0306, 0315, 0327, 0337, 0341, 0342, 0346, 0355, 0356, 0365, 0368, 0370, 0376, 0379, 0380, 0381, 0382, 0389, 0394, 0397, 0409, 0410, 0412, 0414, 0431, 0434

5. FATE

0006, 0008, 0011, 0066, 0094, 0150, 0151, 0169, 0172, 0173, 0201, 0256, 0263, 0272, 0313, 0327, 0328, 0331, 0336, 0348, 0363, 0364, 0380, 0394, 0428

6. CONTROL/SOLUTIONS

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0005, 0007, 0011, 0014, 0019, 0051, 0069, 0086, 0091, 0093, 0127, 0146, 0176, 0177, 0195, 0197, 0213, 0218, 0258, 0261, 0284, 0293, 0294, 0302, 0311, 0323, 0333, 0352, 0363, 0364, 0369, 0387, 0401, 0405, 0432

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0026, 0037, 0039, 0052, 0067, 0074, 0083, 0090, 0097, 0113, 0120, 0126, 0143, 0144, 0145, 0151, 0156, 0161, 0174, 0177, 0179, 0182, 0193, 0196, 0218, 0239, 0243, 0246, 0274, 0284, 0289, 0290, 0293, 0307, 0309, 0321, 0323, 0333, 0363, 0364, 0368, 0369, 0377, 0385, 0390, 0394, 0395, 0396, 0397, 0403, 0405, 0417, 0418, 0433

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7. GENERAL

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0133, 0140, 0149, 0160, 0173, 0174, 0180, 0191, 0200, 0206, 0207, 0209, 0220, 0231, 0254,
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Malta

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Morocco

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0168, 0208, 0360, 0361

Turkey

0056, 0168

NON-MEDITERRANEAN

Atlantic Ocean

0104, 0134, 0151, 0175, 0206, 0209, 0254, 0310, 0340, 0397, 0406, 0407

Indian Ocean

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Pacific Ocean

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Bering Sea

0041, 0147, 0227, 0229, 0247, 0260, 0357

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Caribbean Sea

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