



MEDITERRANEAN ACTION PLAN

UNITED NATIONS ENVIRONMENT PROGRAMME

BIBLIOGRAPHY ON EFFECTS OF CLIMATIC CHANGE
AND RELATED TOPICS

MAP Technical Reports Series No.29

UNEP
Athens, 1989

This volume is the twenty-ninth issue of the Mediterranean Action Plan Technical Report 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, Priority Actions Programme, Specially Protected Areas and Regional Oil Combating Centre.

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PREFACE

In spite of uncertainties surrounding the predicted climate changes, greenhouse gases seem to have accumulated in the atmosphere to such a level that the changes may have started already and their continuation may now be inevitable.

The environmental problems associated with the potential impact of expected climatic changes may prove to be among the major ones facing the marine environment and adjacent coastal areas, in the near future. Therefore, in line with the Decision of the Fourteen Session of the UNEP Governing Council on "Global climate change"^{1/}, the Oceans and Coastal Areas Programme Activity Centre (OCA/PAC) of UNEP launched and supported a number of activities designed to assess the potential impact of climate changes and to assist the Governments in identification and implementation of suitable response measures which may mitigate the negative consequences of the impact.

In 1987, the Task Teams on Implications of Climate Change were established for six regions covered by the UNEP Regional Seas Programme (Mediterranean, Wider Caribbean, South Pacific, East Asian Seas, South Seas and South-East Pacific).

The initial objective of the Task Teams was to prepare regional overviews and site specific case studies on the possible impact of predicted climate changes on the ecological systems, as well as on the socio-economic structures and activities of their respective regions. The overviews and case studies were expected:

- to examine the possible effects of the sea level changes on the coastal ecosystems (deltas, estuaries, wetlands, coastal plains, coral reefs, mangroves, lagoons, etc);
- to examine the possible effects of temperature elevations on the terrestrial and aquatic ecosystems including the possible effects on economically important species;
- to examine the possible effects of climatic, physiographic and ecological changes on the socio-economic structures and activities; and
- to determine areas or systems which appear to be most vulnerable to the above changes.

The regional studies were intended to cover the marine environment and adjacent coastal areas influenced by or influencing the marine environment.

The regional studies prepared by the Task Teams were planned to be presented to the intergovernmental meetings convened in the framework of the relevant Regional Seas Action Plans in order to draw the countries' attention to the problems associated with expected climate change and to prompt their involvement in development of policy options and response measures suitable for their region.

^{1/} UNEP/GC/DEC/14/20.

The site specific case studies developed by the Task Teams were planned to be presented to national seminars.

Once the initial objective of the Task Teams (impact studies) is achieved, they concentrate on providing assistance to national authorities in defining specific policy options and suitable response measures.

The initial objectives of the Mediterranean, Caribbean and the South Pacific Task Teams have been completed and were reviewed by a meeting of the representatives of the Task Teams (Split, 3-8 October 1982)^{2/}. The work of the other three Task Teams is expected to be completed by the end of 1989. The establishment of two additional Task Teams (for the West and Central African region and for the Eastern African region) is in process.

Review on the interaction on a global scale of the oceans with greenhouse gases and atmospheric aerosols was published^{3/} on the basis of the work carried out by a working group of GESAMP.

A special intergovernmental meeting will be convened in mid-1989 in Marshall islands for the 19 island States of the South Pacific to consider their policy options, suitable response mechanisms and additional site specific case studies to be developed.

A detailed case study on the Maldives was prepared with assistance of the South Pacific and the Mediterranean Task Teams and will probably lead to a large-scale country project.

The drafts of the regional studies (overviews) of the Task Teams were already considered by meetings convened under the Mediterranean, Caribbean, South Pacific, South-East Pacific and East Asian Seas Action Plans and for the Mediterranean^{4/} has already been published.

One site specific case study (Delta of Nile) was presented at a national seminar (December 1988). Two additional seminars are planned for mid-1989 (Delta of Po and Thermaikos Gulf).

The development of a climate scenario for the Mediterranean region has been initiated. It is planned to be completed in 1990 and to be used in connection with the revision of the Mediterranean regional study.

This volume contains bibliography on effects of climatic change and related topics.

2/ UNEP(OCA)/WG.2/25.

3/ UNEP Regional Seas Reports and Studies No. 94, UNEP 1988.

4/ UNEP: G. Sestini, L. Jeftic and J.D. Milliman: Implications of expected climate changes in the Mediterranean region: an overview. UNEP Regional Seas Reports and Studies No.103, UNEP, 1989.

INTRODUCTION

This volume of nearly 1500 bibliographic entries has been compiled largely from material in the Mediterranean Co-ordinating Unit library collection and in the collections of the Yale School of Forestry and Environmental Sciences, the Woods Hole Oceanographic Institution, the National Hellenic Research Foundation, the National Centre for Marine Research, the Nuclear Research Centre "Democritus" and the Institute of Geology and Mineral Exploration. For the computerized searches, the facilities and services of the National Documentation Centre of the National Hellenic Research Foundation were used.

The following computerized data bases were searched on line:

- ASFA
- BIOSIS
- COMPENDEX
- DEIFT HYDRAULICS
- ENVIRONMENTLINE
- GEOREF
- NTIS
- OCEANIC ABSTRACTS
- POLLUTION ABSTRACTS
- SCIENCE CITATION INDEX
- SOCIAL SCIENCE INDEX

Material retrieved was checked against the original or other sources. The criterion for the basis on which the selection was made was the need to include all references directly concerning --or possibly relevant to--the Mediterranean, either in providing information on climatic change and its effects or in giving examples of the methodological approach which could be used in the Mediterranean studies. The time span has been limited to post-1983, though several pre-1983 publications have been exceptionally included because of particular interest or specific reference to the Mediterranean area.

The bibliography by author follows this introduction. Each reference is cited by personal author or corporate body followed by the year of publication, the title in its original language with a translation into English if appropriate, the source of publication, with volume number and pages in the case of a periodical title and other pertinent information, pages and editor in the case of a monograph or a proceedings, document number where it applies, and publication details. Each entry has been assigned an accession number which is reflected in the Subject/Keyword Index under the relevant subject.

Five major subject areas are listed:

- A CLIMATE
- B PAST CLIMATIC CHANGES
- C GREENHOUSE EFFECT
- D GREENHOUSE WARMING - IMPACT
- E GEOGRAPHIC AREAS

Descriptors relevant to each main subject area appear listed in alphabetical order by accession number within 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

In September 1988 a preliminary edition of this bibliography was distributed among scientists participating in the Mediterranean Task Team for their comments and input. This edition has been amended based on those comments.

This volume is one of a series of specialized bibliographies on marine pollution, in the Mediterranean which are under preparation by the Unit and constitutes a part of the MEDLIB database that is continuously updated as new material arises.

A DOS-system personal computer and Micro-CDS/ISIS developed by UNESCO were used for the organization and management of the database, which may be queried. Deposited references may be retrieved to produce specialized literature searches on request

Cited references not included in the MEDU library collection may be retrieved through interlibrary loan as time and resources permit.

This effort is considered to be a continuous one, and it is hoped that interested scientists will be encouraged to contribute further comments publications and findings so that an updated edition may be published at a future date.

This bibliography has been prepared by Athena Davaki Librarian, UNEP Consultant

Acknowledgements

With deep appreciation acknowledged here are:

The National Documentation Centre of the National Hellenic Research Foundation and Ms Heleni Poulakaki, chief literature searcher for their expertise and generous support without which this project would not have been possible.

Dr. Joseph A. Miller Librarian School of Forestry and Environmental Sciences Yale University, for his unfailing support and in-kind contribution to this project.

The Yale-Forestry and Environmental Sciences Library, the National Hellenic Research Foundation Library the Woods Hole Oceanographic Institution Library, the National Centre for Marine Research Library, the Nuclear Research Centre "Democritus" Library and the Institute of Geology and Mineral Exploration Library for their reference and inter-library loan services generously rendered.

Dr. Julianc Sestini Geologist, for his contributions. Mr. Nicos Papatheodorou for his technical assistance and Ms Polly Ballis for the many hours of data entry

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SUBJECT/KEYWORD INDEX

Five main subject areas are listed. Descriptors relevant to each main subject area appear in alphabetical order within the main subject headings. Publications containing references to more than one subject appear under more than one keyword/descriptor.

CLIMATE

- Atmosphere--Climatic catastrophe
 - Clouds
 - Extreme events
 - Nuclear
 - Precipitation
 - Storms
 - Temperature/Events
 - Volcanic

- Climatic change

PAST CLIMATIC CHANGES

- Holocene

- Paleoclimatic

- Pleistocene

- Quaternary

GREENHOUSE EFFECT

- Gases--Aerosol
 - Carbon dioxide
 - Methane
 - Nitrogen
 - Oxygen
 - Ozone
 - Radiation
 - Sulphur
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- Greenhouse effect

- Methods, Models--Detection
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 - Methods
 - Models
 - Remote Sensing
 - Scenaria

Subject/Keyword Index--Categories Used

GREENHOUSE WARMING - IMPACT

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Desertification

Ecosystems

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Oceans, Seas, Hydrology--Coastal erosion, changes

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Antarctic

Arctic

Atlantic Ocean

Australia

Baltic

Bangladesh

Brazil

Canada

Caribbean

China

England

Great Lakes

Japan

Subject/Keyword Index--Categories Used

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Mediterranean--Mediterranean (general)

Adriatic

Ebro

Egypt

France

Greece

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Po

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Tunisia

New Zealand

Pacific

U.S.A.

U.S.S.R.

Wales

Subject/Keyword Index--Climate

CLIMATE

Atmosphere

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0038, 0039, 0044, 0048, 0050, 0060, 0061, 0065, 0067, 0070,
0071, 0073, 0077, 0080, 0088, 0090, 0091, 0093, 0105, 0106,
0109, 0110, 0111, 0113, 0114, 0115, 0116, 0117, 0118, 0124,
0138, 0142, 0146, 0150, 0151, 0153, 0155, 0157, 0159, 0163,
0166, 0167, 0173, 0182, 0185, 0188, 0189, 0192, 0194, 0206,
0221, 0223, 0229, 0230, 0233, 0234, 0236, 0237, 0242, 0244,
0246, 0247, 0250, 0253, 0259, 0261, 0263, 0265, 0269, 0270,
0271, 0273, 0274, 0278, 0279, 0280, 0282, 0285, 0286, 0289,
0291, 0292, 0294, 0295, 0296, 0299, 0300, 0301, 0305, 0306,
0307, 0308, 0315, 0317, 0318, 0323, 0327, 0334, 0338, 0339,
0340, 0342, 0348, 0349, 0352, 0353, 0358, 0372, 0373, 0375,
0385, 0386, 0398, 0400, 0401, 0404, 0411, 0414, 0415, 0416,
0420, 0421, 0427, 0428, 0433, 0440, 0441, 0442, 0443, 0445,
0450, 0456, 0458, 0465, 0467, 0468, 0469, 0470, 0478, 0479,
0480, 0485, 0486, 0488, 0492, 0494, 0495, 0497, 0502, 0503,
0507, 0508, 0511, 0514, 0515, 0517, 0518, 0519, 0520, 0521,
0522, 0523, 0524, 0525, 0526, 0527, 0528, 0530, 0531, 0533,
0539, 0541, 0542, 0543, 0546, 0547, 0549, 0551, 0573, 0574,
0583, 0586, 0589, 0590, 0593, 0594, 0595, 0597, 0598, 0601,
0604, 0608, 0611, 0613, 0615, 0616, 0617, 0631, 0632, 0638,
0640, 0646, 0648, 0649, 0650, 0651, 0655, 0663, 0664, 0665,
0666, 0667, 0668, 0670, 0671, 0675, 0680, 0681, 0683, 0684,
0694, 0695, 0700, 0701, 0702, 0708, 0710, 0712, 0716, 0729,
0730, 0733, 0734, 0738, 0748, 0749, 0750, 0751, 0752, 0753,
0761, 0763, 0771, 0772, 0774, 0776, 0777, 0779, 0788, 0790,
0792, 0793, 0794, 0809, 0812, 0816, 0820, 0823, 0824, 0825,

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 0854, 0856, 0862, 0863, 0865, 0867, 0869, 0874, 0877, 0879,
 0880, 0881, 0882, 0883, 0887, 0888, 0893, 0895, 0898, 0900,
 0901, 0902, 0908, 0913, 0919, 0922, 0923, 0924, 0929, 0930,
 0934, 0935, 0939, 0940, 0941, 0942, 0943, 0944, 0945, 0946,
 0947, 0948, 0951, 0953, 0958, 0960, 0961, 0965, 0976, 0977,
 0979, 0980, 0981, 0988, 0990, 0992, 0994, 0998, 1004, 1007,
 1010, 1016, 1017, 1019, 1023, 1030, 1031, 1037, 1038, 1039,
 1040, 1041, 1043, 1046, 1048, 1051, 1054, 1056, 1057, 1058,
 1062, 1064, 1067, 1068, 1070, 1071, 1073, 1075, 1076, 1077,
 1078, 1079, 1080, 1082, 1084, 1085, 1086, 1087, 1088, 1090,
 1093, 1098, 1102, 1105, 1106, 1109, 1113, 1123, 1125, 1126,
 1133, 1136, 1138, 1139, 1140, 1143, 1147, 1149, 1151, 1153,
 1163, 1165, 1166, 1169, 1175, 1176, 1184, 1190, 1191, 1199,
 1202, 1205, 1210, 1212, 1214, 1217, 1219, 1220, 1228, 1235,
 1238, 1242, 1245, 1246, 1247, 1248, 1249, 1250, 1254, 1255,
 1258, 1265, 1269, 1270, 1275, 1276, 1280, 1285, 1289, 1292,
 1296, 1297, 1300, 1303, 1304, 1306, 1307, 1311, 1312, 1315,
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 1333, 1336, 1337, 1339, 1344, 1348, 1350, 1352, 1354, 1355,
 1357, 1361, 1365, 1367, 1368, 1370, 1371, 1373, 1374, 1375,
 1376, 1380, 1385, 1397, 1400

PAST CLIMATIC CHANGES

Holocene

0052, 0155, 0344, 0395, 0407, 0626, 0651, 0702, 0840, 0974,
 0975, 0986, 1003, 1101, 1120, 1121, 1144, 1145

Paleoclimatic

0398, 0420, 0961, 1085

Pleistocene

0052, 0649, 0976, 1173, 1304

Quaternary

0003, 0007, 0095, 0102, 0240, 0275, 0297, 0398, 0460, 0478,
 0494, 0537, 0679, 0807, 0928, 1245, 1401

GREENHOUSE EFFECT

Gases

Aerosol

0152, 0197, 0514, 0528, 0709, 0710, 0936, 1004, 1346

Carbon dioxide

0008, 0017, 0034, 0062, 0065, 0066, 0067, 0068, 0076, 0109,
 0114, 0121, 0122, 0147, 0164, 0165, 0182, 0183, 0190, 0206,
 0229, 0230, 0236, 0244, 0249, 0252, 0261, 0270, 0271, 0276,
 0279, 0286, 0290, 0293, 0294, 0302, 0307, 0310, 0327, 0357,
 0360, 0362, 0371, 0372, 0381, 0393, 0400, 0431, 0435, 0456,

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GREENHOUSE EFFECT--Gases:

Carbon dioxide, continued

0457, 0458, 0459, 0468, 0475, 0485, 0486, 0530, 0535, 0575,
0576, 0577, 0578, 0586, 0593, 0595, 0598, 0599, 0600, 0601,
0603, 0604, 0605, 0606, 0608, 0609, 0610, 0612, 0613, 0631,
0632, 0640, 0646, 0650, 0653, 0660, 0665, 0678, 0695, 0697,
0709, 0716, 0717, 0719, 0728, 0730, 0734, 0735, 0736, 0739,
0753, 0754, 0756, 0757, 0758, 0761, 0765, 0790, 0793, 0794,
0796, 0812, 0813, 0814, 0817, 0822, 0825, 0826, 0829, 0834,
0837, 0844, 0856, 0861, 0865, 0869, 0882, 0885, 0888, 0893,
0902, 0906, 0908, 0911, 0914, 0916, 0919, 0929, 0930, 0933,
0935, 0941, 0951, 0966, 0969, 0976, 0979, 0992, 0999, 1008,
1018, 1026, 1027, 1028, 1029, 1031, 1033, 1036, 1054, 1070,
1071, 1073, 1077, 1078, 1079, 1080, 1084, 1086, 1090, 1095,
1103, 1113, 1126, 1127, 1128, 1129, 1130, 1136, 1137, 1138,
1147, 1148, 1153, 1164, 1179, 1182, 1183, 1188, 1206, 1211,
1216, 1243, 1244, 1247, 1249, 1250, 1251, 1252, 1253, 1255,
1258, 1269, 1270, 1291, 1298, 1301, 1306, 1307, 1313, 1322,
1323, 1324, 1325, 1326, 1327, 1333, 1338, 1339, 1340, 1349,
1353, 1355, 1356, 1357, 1359, 1363, 1365, 1367, 1371, 1383,
1407

Methane

0139, 0140, 0363, 0423, 0690, 1026, 1160

Nitrogen

0122, 0502, 1049, 1157

Oxygen

0210, 0241, 0252, 0637, 0840, 0983, 1024, 1292

Ozone

0006, 0024, 0043, 0081, 0098, 0112, 0136, 0145, 0174, 0202,
0205, 0207, 0210, 0276, 0302, 0331, 0335, 0345, 0347, 0354,
0380, 0397, 0403, 0406, 0424, 0437, 0438, 0449, 0453, 0491,
0499, 0504, 0529, 0536, 0540, 0553, 0554, 0556, 0560, 0564,
0565, 0568, 0569, 0587, 0614, 0627, 0634, 0642, 0673, 0682,
0707, 0718, 0722, 0732, 0775, 0889, 0900, 0952, 0954, 0997,
0998, 1035, 1049, 1059, 1069, 1099, 1124, 1142, 1168, 1170,
1171, 1172, 1201, 1228, 1232, 1265, 1267, 1268, 1315, 1328,
1329, 1382, 1389, 1391, 1393, 1394, 1399, 1402, 1403

Radiation

0059, 0113, 0137, 0202, 0207, 0228, 0380, 0424, 0449, 0480,
0486, 0499, 0587, 0596, 0642, 0682, 0709, 0718, 0952, 1194,
1195, 1200, 1207, 1317, 1331, 1389, 1390, 1391

Sulphur

0242, 1049, 1403

Trace gases

0034, 0341, 0468, 0557, 0558, 0829, 0900, 1014, 1221, 1319,
1329

Greenhouse effect

0037, 0038, 0047, 0087, 0091, 0094, 0150, 0151, 0152, 0201,
0322, 0347, 0416, 0517, 0521, 0544, 0585, 0591, 0602, 0603,
0605, 0606, 0610, 0693, 0730, 0737, 0738, 0766, 0791, 0793,

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GREENHOUSE EFFECT--

Greenhouse effect, continued

0796, 0798, 0800, 0860, 0915, 0918, 0930, 0962, 0963, 1032,
1083, 1103, 1132, 1190, 1226, 1231, 1246, 1256, 1266, 1269,
1270, 1316, 1346, 1351, 1378

Methods, Models

Detection

0087, 0091, 0279, 0312, 0793, 0837, 1203, 1339, 1355, 1357,
1361

Measurements

0056, 0099, 0156, 0218, 0337, 0406, 0529, 0550, 0596, 0623,
0748, 0782, 0828, 0993, 1387

Methods

0265, 0297, 0451, 0467, 0513, 0559, 0944, 0999, 1117, 1165,
1273

Models

0005, 0008, 0020, 0044, 0066, 0103, 0146, 0148, 0155, 0181,
0189, 0203, 0208, 0228, 0234, 0247, 0252, 0262, 0266, 0267,
0276, 0283, 0284, 0288, 0292, 0302, 0306, 0310, 0326, 0327,
0328, 0333, 0338, 0345, 0355, 0362, 0415, 0443, 0453, 0470,
0490, 0497, 0511, 0516, 0528, 0530, 0531, 0549, 0567, 0586,
0604, 0640, 0641, 0646, 0650, 0680, 0719, 0722, 0739, 0761,
0768, 0776, 0797, 0803, 0854, 0861, 0863, 0865, 0866, 0870,
0871, 0901, 0902, 0910, 0913, 0977, 1012, 1023, 1045, 1048,
1058, 1067, 1071, 1072, 1077, 1078, 1079, 1080, 1082, 1085,
1106, 1127, 1129, 1135, 1170, 1172, 1192, 1277, 1294, 1296,
1316, 1325, 1326, 1327, 1367, 1382, 1397

Remote sensing

0699, 1203, 1204, 1387

Scenaria

0073, 0360, 0432, 0454, 0650, 0677, 0715, 0723, 0740, 0779,
0935, 1286, 1334, 1359, 1361, 1393

GREENHOUSE WARMING - IMPACT

Climate warming

0034, 0041, 0079, 0142, 0161, 0183, 0195, 0261, 0281, 0321,
0341, 0471, 0505, 0507, 0544, 0583, 0655, 0671, 0737, 0753,
0761, 0798, 0846, 0847, 0913, 0914, 0915, 0963, 0989, 1011,
1053, 1077, 1084, 1103, 1167, 1202, 1205, 1248, 1291, 1300,
1360, 1362, 1384, 1386

Ecosystems

Biosphere

0032, 0097, 0424, 0431, 0592, 0622, 0676, 0866, 0964, 1042,
1306

Desertification

0030, 0523, 0545, 0848

Subject/Keyword Index--Greenhouse Warming - Impact

GREENHOUSE WARMING - IMPACT--

Ecosystems, continued

Ecosystems

0026, 0150, 0151, 0207, 0310, 0370, 0375, 0420, 0443, 0562,
0579, 0682, 0802, 0856, 0870, 0920, 0939, 0942, 0945, 0948,
0999, 1022, 1125, 1126, 1169, 1174, 1289, 1324, 1387

Forests

0069, 0172, 0192, 0396, 0427, 0578, 0671, 0951, 0966, 0985,
1126, 1147, 1148, 1149, 1250, 1252, 1385

Marshes

0493, 0534, 0926, 0967, 1162

Plants

0137, 0265, 0310, 0329, 0613, 0754, 0765, 1182, 1195, 1196,
1200, 1299, 1353, 1391

Trees

0159, 0173, 0427, 0728, 0748, 0854, 0953, 1098, 1107

Vegetation

0077, 0318, 0531, 0654, 0728, 0742, 0920, 0929, 1049, 1243,
1245, 1253, 1344

Impact on Society

Agriculture

0004, 0006, 0118, 0142, 0221, 0233, 0266, 0298, 0299, 0327,
0350, 0425, 0437, 0441, 0461, 0511, 0515, 0535, 0543, 0545,
0589, 0598, 0686, 0772, 0877, 0883, 0904, 0924, 0939, 0940,
0946, 0947, 0948, 0968, 0969, 1033, 1054, 1062, 1070, 1071,
1158, 1184, 1195, 1197, 1199, 1210, 1248, 1252, 1258, 1299,
1307, 1308, 1321, 1322, 1367

Crops

0076, 0138, 0142, 0266, 0327, 0511, 0535, 0545, 0660, 0695,
0772, 0968, 1192, 1195, 1322

Economy

0059, 0080, 0280, 0350, 0362, 0432, 0451, 0539, 0685, 0691,
0804, 0838, 1022, 1034, 1143, 1151, 1334

Energy

0067, 0190, 0213, 0295, 0316, 0361, 0362, 0405, 0500, 0528,
0536, 0539, 0542, 0582, 0604, 0605, 0630, 0677, 0678, 0735,
0737, 0761, 0824, 0906, 0918, 0958, 1023, 1036, 1057, 1081,
1183

Fisheries

0124, 0402, 0428, 0672, 0846, 0847, 1035, 1177, 1252

Forestry

0069, 0172, 0192, 0396, 0427, 0578, 0671, 0951, 0966, 0969,
0985, 1126, 1130, 1147, 1148, 1149, 1250, 1252, 1299, 1385

GREENHOUSE WARMING - IMPACT--
Impact on Society, continued

Health

0351, 0374, 0380, 0384, 0385, 0491, 0499, 0504, 0564, 0565,
0569, 0655, 0732, 0952, 1099, 1124, 1228, 1252, 1265, 1373,
1399

Planning

0232, 0452, 0597, 0714, 0958, 1005, 1222, 1366, 1372

Policy

0063, 0082, 0213, 0268, 0299, 0347, 0351, 0425, 0472, 0474,
0539, 0544, 0566, 0604, 0734, 0800, 1076, 1156, 1365

Society

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