

Working Groups of GESAMP and Associated Reports and Studies

Numbered Working Groups **from GESAMP's establishment till GESAMP's 50th anniversary**

WORKING GROUP 1

Evaluation of the hazards of harmful substances carried by ships

Chairpersons: H.A. Cole, P.G. Jeffrey, J.E. Portmann, W. Ernst, T. Bowmer, P. Wells, T Höfer

Sponsoring Organization: IMO in cooperation with UNEP and UNESCO

Reports and Studies:

R&S 2 "Review of Harmful Substances" (1976)

R&S 17 "The Evaluation of the Hazards of Harmful Substances Carried by Ships" (1982)

R&S 35 "The Evaluation of the Hazards of Harmful Substances Carried by Ships: Revision of GESAMP Reports and Studies No. 17 (1989)

R&S 64 "The Revised GESAMP Hazard Evaluation Procedure for Chemical Substances Carried by Ships (2002)

R&S 64' "The Revised GESAMP Hazard Evaluation Procedure, 2nd Edition" (2014)

WORKING GROUP 2

Bio-essays and other techniques for evaluation of lethal and sub-lethal effects of pollutants on marine organisms"

Chairperson: G. Berge

Sponsoring Organization: FAO

Reports and Studies:

None

WORKING GROUP 3

Transport and dilution of pollutants and marine pollution monitoring

Chairperson: K.O. Munnich

Sponsoring Organization: WMO

Reports and Studies:

None

WORKING GROUP 4

Review of harmful substances in the marine environment

Chairpersons: B.H. Ketchum, A. Jernelov

Sponsoring Organization: UNEP, FAO, WHO, UNESCO-IOC, IMO

Reports and Studies:

None – But see Working Group 13

WORKING GROUP 5

Sewage and industrial waste management technologies and their performance

Chairperson: H.C. Thompson

Sponsoring Organization: UN

Reports and Studies:

None

WORKING GROUP 6

Principles for developing coastal water quality criteria

Co-Chairpersons: G. Berge, M. Waldichuk

Sponsoring Organization: FAO, with assistance of UNEP

Reports and Studies:

R&S 5 "Principles for developing coastal water quality criteria" (1976)

WORKING GROUP 7

The consequences of the human perturbation of the deep-sea floor

Chairperson: K.K. Turekian

Sponsoring Organization: IAEA in cooperation with the UN

Reports and Studies:

None

WORKING GROUP 8

Impact of oil on the marine environment

Co-Chairpersons: C.H. Thompson, H.A. Cole

Sponsoring Organization: FAO, with assistance of UNEP

Reports and Studies:

R&S 6 "Impact of oil on the marine environment" (1977)

WORKING GROUP 9

Scientific basis for disposal of waste into the sea

Chairperson: G. Kullenberg

Sponsoring Organization: FAO, with assistance of UNEP

Reports and Studies:

None

WORKING GROUP 10

Scientific bases for the determination of concentrations and effects of marine pollutants

Chairperson: E.D. Goldberg

Sponsoring Organization: UNESCO, with assistance of UNEP

Reports and Studies:

None

WORKING GROUP 11

Scientific aspects of pollution arising from the exploration and exploitation of the sea bed

Chairperson: H.A. Cole

Sponsoring Organization: UN in cooperation with IMCO and with the assistance of UNEP

Reports and Studies:

R&S 7 "Scientific Aspects of Pollution Arising from the Exploration and Exploitation of the Sea-Bed" (1977)

WORKING GROUP 12

Marine pollution implications of coastal area development

Chairperson: H.A. Cole

Sponsoring Organization: UN in cooperation with FAO, WHO and UNEP

Reports and Studies:

R&S 11 “Marine pollution implications of coastal area development” (1980)

WORKING GROUP 13

Review of potentially harmful substances

Chairpersons: B.H. Ketchum, A. Jernelov, L. Friberg, J. Portmann, L. Landner, P. Wells

Sponsoring Organization: UNESCO in cooperation with FAO, IMO, UNEP and WHO

Reports and Studies:

R&S 22 “Review of Potentially Harmful Substances – Cadmium, Lead, and Tin” (1984)

R&S 28 “Review of Potentially Harmful Substances – Arsenic, Mercury, and Selenium” (1985)

R&S 29 “Review of Potentially Harmful Substances – Organosilicon Compounds (Silanes and Siloxanes)” (1986)

R&S 34 “Review of Potentially Harmful Substances – Nutrients” (1990)

R&S 42 “Review of Potentially Harmful Substances – Choosing Priority Organochlorines for Marine Hazard Assessment” (1990)

R&S 46 “Review of Potentially Harmful Substances – Carcinogens” (1991)

R&S 50 “Impact of Oil and Related Chemicals on the Marine Environment (1993)

WORKING GROUP 14

Interchange of pollutants between the atmosphere and the oceans

Co-Chairpersons: W.D. Garrett, R. Duce

Sponsoring Organization: WMO in cooperation with UNESCO, IAEA and UNEP

Reports and Studies:

R&S 13 “Interchange of Pollutants between the Atmosphere and the Oceans” (1980)

R&S 23 “Interchange of Pollutants between the Atmosphere and the Oceans (Part II)” (1985)

R&S 26 “Atmospheric Transport of Contaminants into the Mediterranean Region” (1985)

R&S 36 “Pollutant Modification of Atmospheric and Oceanic Processes and Climate: Some Aspects of the Problem” (1989)

R&S 38 “The Atmospheric Input of Trace Species to the World Ocean” (1989)

WORKING GROUP 15

Biological effects of thermal effluents in the marine environment

Co-Chairpersons: V. Pravdic, G.D. Howells

Sponsoring Organization: FAO, in cooperation with UNESCO and UNEP

Reports and Studies:

R&S 24 “Thermal Discharges in the Marine Environment” (1984)

WORKING GROUP 16

Monitoring of biological variables related to marine pollution

Chairperson: A.D. McIntyre

Sponsoring Organization: UNESCO, in cooperation with FAO

Reports and Studies:

R&S 12 “Monitoring of Biological Variables Related to Marine Pollution” 1980

WORKING GROUP 17

Scientific aspects of removal of harmful substances from waste water

Chairperson: H.C. Thompson

Sponsoring Organization: WHO, in cooperation with FAO

Reports and Studies:

None

WORKING GROUP 18

Review of the health of the oceans

Chairperson: G. Kullenberg

Sponsoring Organization: UNESCO, in cooperation with IMO, FAO, WMO, WHO, IAEA, UN and UNEP

Reports and Studies:

R&S 15 "The Review of the Health of the Oceans" 1982

WORKING GROUP 19

Oceanographic model for the dispersion of water disposed of in the deep sea

Chairperson: G.T. Needler

Sponsoring Organization: IAEA, in cooperation with IMO, UNESCO and UNEP

Reports and Studies:

R&S 19 "Oceanographic model for the dispersion of water disposed of in the deep sea" (1983)

WORKING GROUP 20

Sea disposal studies

Chairperson: A.D. McIntyre

Sponsoring Organization: IMO, in cooperation with UNEP

Reports and Studies:

R&S 16 "Scientific Criteria for the Selection of Waste Disposal Sites at Sea" (1992)

WORKING GROUP 21

Marine pollution implications of ocean energy development

Co-Chairpersons: R.D. Gerard, J. Roney, E. Myers

Sponsoring Organization: UN, in cooperation with UNESCO and UNEP

Reports and Studies:

R&S 20 "Marine Pollution Implications of Ocean Energy Development" (1984)

WORKING GROUP 22

Land and sea boundary flux of pollutants

Chairperson H. L. Windom

Sponsoring Organization: UNESCO, in cooperation with UNEP and IAEA

Reports and Studies:

R&S 32 "Land/Sea Boundary Flux of Contaminants: Contributions from Rivers (1987)

WORKING GROUP 23

Methodology and guidelines for the assessment of the impact of pollutants on the marine environment

Chairperson: V. Pravdic

Sponsoring Organization: FAO and WHO, in cooperation with IMO, UNESCO, IAEA and UNEP

Reports and Studies:

R&S 30 "Environmental Capacity: An Approach to Marine Pollution Prevention (1986)

WORKING GROUP 24

"Integrated global ocean monitoring"

Chairperson: A. Tsyban

Sponsoring Organization: UNEP, in cooperation with WMO

Reports and Studies:

None

WORKING GROUP 25

Coastal modelling

Chairperson: J. Blanton

Sponsoring Organization: IAEA, in cooperation with UNEP, UNESCO and IMO

Reports and Studies:

R&S 43 "Coastal Modelling" (1991)

WORKING GROUP 26

State of the marine environment

Chairperson: A.O. McIntyre

Sponsoring Organization: UNEP, in cooperation with UN, IAEA, WHO, WMO, FAO, IMO and UNESCO

Reports and Studies:

R&S 39 "The State of the Marine Environment" (1990)

WORKING GROUP 27

Long-term ecological consequences of low-level contamination of the marine environment

Chairperson: G.D. Howells

Sponsoring Organization: FAO, in cooperation with UNEP and IMO

Reports and Studies:

R&S 40 "Long Term Consequences of Low-Level Marine Contamination: An Analytical Approach" (1989)

WORKING GROUP 28

Scientifically based strategies for marine environmental protection and management

Chairperson: D. Calamari

Sponsoring Organization: FAO, in cooperation with UN, UNEP, UNESCO, WHO, WMO and IMO

Reports and Studies:

None

WORKING GROUP 29

Comprehensive framework for the assessment and regulation of waste disposal in the marine environment

Chairperson: R.G.V. Boelens

Sponsoring Organization: IMO, in cooperation with UN, UNEP, FAO, UNESCO and IAEA

Reports and Studies:

R&S 45 "Global Strategies for Marine Environmental Protection" (1991)

WORKING GROUP 30

Impacts of anthropogenically mobilized sediments in the coastal environment

Chairperson: J. Gray

Sponsoring Organization: UNESCO, in cooperation with UN, UNEP, FAO and IMO

Reports and Studies:

R&S 52 "Anthropogenic Influences on Sediment Discharge to the Coastal Zone and Environmental Consequences" (1993)

WORKING GROUP 31

Environmental impacts of coastal aquaculture

Chairpersons: Chua Thia-Eng, D. Weston, J. Hambrey, E. Black

Sponsoring Organization: FAO, in cooperation with UNEP, UNESCO and WHO

Reports and Studies:

R&S 47 "Reducing Environmental Impacts of Coastal Aquaculture" (1991)

R&S 57 "Monitoring the Ecological Effects of Coastal Aquaculture Wastes" (1996)

R&S 65 "Towards Safe and Effective Use of Chemicals in Coastal Aquaculture (1997)

R&S 68 "Planning and Management for Sustainable Coastal Aquaculture Development (2001)

R&S 76 "Assessment and Communication of Environmental Risks in Coastal Aquaculture" (2008)

WORKING GROUP 32-A

Global change and the air/sea exchange of chemicals

Chairperson: R. Duce

Sponsoring Organization: WMO, in cooperation with UNEP and UNESCO

Reports and Studies:

R&S 48 "Global change and the air/sea exchange of chemicals" (1991)

WORKING GROUP 32-B

Oil Inputs

Chairperson: P.G. Wells

Sponsoring Organization: IMO

Reports and Studies:

R&S 75 "Estimates of Oil Entering the Marine Environment from Sea-Based Activities" (2007)

WORKING GROUP 33

Environmental exposure models for application in seafood risk analysis

Chairpersons: D. Weston and F. Gobas

Sponsoring Organizations: FAO and WHO

Reports and Studies:

None

WORKING GROUP 34-A

Review of applications for "Active Substances" to be used in water management systems

Chairperson: Jan Linders; Vice Chair, A. Dock

Sponsoring Organization: IMO

Reports and Studies:

None

WORKING GROUP 34-B

The Sea Surface Microlayer

Chairperson: R. Duce

Sponsoring Organization: WMO, in cooperation with UNEP, IMO, IOC, and IAEA

Reports and Studies:

R&S 59 "The Sea Surface Microlayer and its Roll in Global Change" (1995)

WORKING GROUP 35

Deep water fisheries

Chairperson: J. Gordon

Sponsoring Organization: FAO

Reports and Studies:

None

WORKING GROUP 36

Ecosystem approach to mariculture (EAMAR), with emphasis on off shore farming

Chairperson: J. Marra

Sponsoring Organization: FAO

Reports and Studies:

None

WORKING GROUP 37

Mercury in the aquatic environment: sources, releases, transport and monitoring

Chairperson: H. Keenan

Sponsoring Organization: UNIDO

Reports and Studies:

R&S 86 "Mercury in the Aquatic Environment: Executive Summary (2013)

WORKING GROUP 38

Atmospheric input of chemicals to the oceans

Co-Chairpersons: R. Duce, P.Liss, T. Jickells

Sponsoring Organization: WMO, in cooperation with IMO, US National Science Foundation, SCOR, SOLAS, University of East Anglia

Reports and Studies:

R&S 84 "The Atmospheric Input of Chemicals to the Ocean" (2012)

R&S 97 "The Magnitude and Impacts of Anthropogenic Atmospheric Nitrogen Inputs to the Ocean" (2018)

Plus many publications (~20) in the peer-reviewed scientific literature

WORKING GROUP 39

Global trends in pollution of coastal ecosystems: retrospective ecosystem assessment

Chairperson: A. Ruiz-Fernandez

Sponsoring Organization: IAEA, in cooperation with UNIDO

Reports and Studies:

None

WORKING GROUP 40

Sources, fate and effects of plastics and micro-plastics in the marine environment

Co-Chairpersons: P. Kershaw, A. Turra

Sponsoring Organizations: UNESCO-IOC and UN Environment, in cooperation with IMO, FAO, NOAA, NOWPAP, Ministry of Environment Japan, State Ocean Administration China, EU-BASECAMP project

Reports and Studies:

R&S 90 "Sources, Fate, and Effects of microplastics in the marine environment Part 1" (2015)

R&S 93 "Sources, Fate, and Effects of microplastics in the marine environment Part 2" (2016)

R&S 99 “Guidelines for the Monitoring and Assessment of Plastic Litter in the Ocean” (2019)

WORKING GROUP 41

Marine Geoengineering

Co-Chairpersons: C. Vivian, P. Boyd

Sponsoring Organization: IMO, in cooperation with UNESCO-IOC and WMO

Reports and Studies:

R&S 98 “High Level Review of a Wide Range of Proposed Marine Geoengineering Techniques” (2019)

WORKING GROUP 42

Impacts of wastes and other matter in the marine environment from mining operations, including marine mineral mining

Chairperson: T. Shimmiel

Sponsoring Organization: IMO and UN Environment

Reports and Studies:

None

WORKING GROUP 43

Sea based sources of marine litter including fishing gear and other shipping related litter

Chairperson: K. Gilardi

Sponsoring Organizations: IMO and FAO, in cooperation with UN Environment

Reports and Studies:

None

Working Groups and Task Teams Without Numbers

Working Group on the design and conduct of marine environmental assessments

Co-Chairpersons: R. Boelens, P. Tortell

Sponsoring Organization: IMO

Reports and Studies:

R&S 54 “Guidelines for Marine Environmental Assessments” (1994)

Working Group on biological indicators and their use in the measurement of the condition of the marine environment

Chairperson: J.S. Gray

Sponsoring Organization: UNEP

Reports and Studies:

R&S 55 “Biological Indicators and their Use in the Measurement of the Condition of the Marine Environment” (1995)

Working Group on opportunistic settlers

Co-chairpersons: Y.I. Sorokin, P.G. Wells

Sponsoring Organizations: Support: UNEP, IMO, FAO, and UNESCO-IOC

Reports and Studies:

R&S 58 “Opportunistic Settlers and the Problem of the Ctenophore *Mnemiopsis leidyi* Invasion in the Black Sea” (1997)

Working Group on marine environmental assessments

Chairperson: S. Keckes

Sponsoring Organization: UNEP

Reports and Studies:

R&S 70 “A Sea of Troubles” (2001)

R&S 71 “Protecting the Ocean from Land-Based Activities” (2001)

Task Team on integrated coastal management

Chairpersons: S.B. Olsen, J.S. Gray

Sponsoring Organization: FAO

Reports and Studies:

R&S 61 “The Contributions of Science to Integrated Coastal Management” (1996)

Task Team on pollution of the open ocean

Chairperson: R. Boelens

Sponsoring Organizations: UNEP, UNESCO-IOC

Reports and Studies:

R&S 79 “Pollution in the Open Oceans: A Review of Assessments and Related Studies” (2009)

R&S 91 “Pollution in the Open Oceans: 2009-2013” (2015)