

Report from the Working Group on  
the North Sea Synopsis

A meeting of the Group was held on Tuesday 29th September, 1964. Present were:-

A.J. Lee	Great Britain	J. Eggvin	Norway
N.T. Campbell	Canada	J.E. Fjeldstad	Norway
W.C. Jacobs	U.S.A.	A. Saville	Scotland
J. Joseph	Monaco	D.P.D. Scott	England
O.M. Miller	U.S.A. (Amer. Geogr. Soc.)	M.J. Dunbar	Canada (A.G.S.)
L.A. Walford	U.S.A. (Amer. Geogr. Soc.)	W.F. Black	Canada (Zool. Mus. Copenhagen)
R. Nesbitt	Great Britain	E.H. Grainger	Canada
T. Tienstra	The Netherlands	G. Hempel	Germany
J.H. Fraser	Scotland	J. Krey	Germany
T. Braarud	Norway	P. Korringa	Netherlands
V. Bainbridge	Scotland	E. Bertelsen	Denmark
F. Hermann	Denmark	G. Tomczak	Germany
A. Svansson	Sweden		

In the absence of Dr. Carruthers, the Consultative Committee had appointed Professor Hela to be Convener of the Working Group which should reorganize its work in the following way:-

The Chairmen of the Hydrographical, the Near Northern Seas, the Shellfish, and the Plankton Committees would take over the responsibility to choose the suitable scientists to be authors of the various Folios and to establish an appropriate and quick contact between these authors and the American Geographical Society.

The Chairman of the Hydrographical Committee would take care of items 1-5, the Chairman of the Plankton Committee of items 6.1-6.4 and 6.6, the Chairman of the Near Northern Seas Committee of items 6.5 and 6.10, and the Chairman of the Shellfish Committee of items 6.7-6.9.

The extensive report of the last meeting in Madrid in 1963 was used to check the progress of the different items. Changes, relative to that report, are given below.

Item 4.1. Dr. Tomczak intimated that Dr. Horn has to await the results of the project taken up by the "North Sea Hydrographic Commission" before he could finish his work on the Folio on Tides, etc.

Item 4.3. According to a recent letter from Dr. Carruthers, the preparation of this Folio (Sea and Swell) was handed over first to Dr. Roll and later to Dr. Walden, meteorologist at "Seewetteramt" in Hamburg.

Item 4.4. Dr. Tomczak said that all the material for the Storm Surge Folio was collected, and would be worked up when the Folios of Temperature and Salinity were finished.

Item 4.7. The first copy of the second volume by Dr. Tomczak and Dr. Goedecke on Water Temperature of the North Sea was circulated. A discussion arose between Dr. Tomczak and the representative of the A.G.S. concerning the double publication of the charts on Water Temperature. It was stressed by the A.G.S. that they certainly want the Folio to be somewhat more than a reprint of the German work. It was decided that the German publications be considered raw material only, while Dr. Tomczak is asked to include in his final Folio an appropriate set of charts and the necessary text.

In this connection Dr. Dunbar informed the meeting that working sheets of the projection chart used by A.G.S. are available for every author participating in the North Sea Synopsis.

Item 5.1. Dr. Tomczak said that towards the end of 1965 the Salinity of the North Sea would also be worked up in a similar manner as temperature. Asked by Prof. Dunbar, if such a publication could be taken over by the N.S.S. Folio, Dr. Tomczak answered that he thought this to be impossible, as the work was planned a long time ago and, furthermore, the language is German according to the contract of his Institute. A decision analogous to that in connection with 4.7 was made.

Item 5.3. Both Prof. Dunbar and Dr. Fraser informed the meeting that the Folio on Trace Elements is now ready for publication.

Item 6.4. After some discussion between Prof. Krey, Dr. Gillbricht, and Dr. Fraser concerning the proposed folios by Dr. Shewan, it was agreed that the work on Marine Bacteria would best be postponed as it would not be practicable to do it on the data available at present. Dr. Fraser promised to pass this information to Dr. Shewan.

Item 6.6. After some discussion the Chairman asked that the Folio on Fish Eggs and Larvae be dealt with by the Plankton Committee. Mr. Saville stated that he, with Dr. Henderson and Mr. Simpson, was still working on this folio.

Item 6.7. Prof. Korringa and Dr. Hempel were of the opinion that intertidal invertebrates should be left out. Benthic Algae (or Seaweeds) should be covered, however.

Item 6.8. Prof. Korringa would contact Dr. Ziegelmeier concerning the Folio on Bottom Invertebrates (Benthos). Because of the extensive work involved, Prof. Korringa promised to discuss with Dr. Ziegelmeier the possibility of getting other experts in the field to collaborate.

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North Sea Synopsis

Liaison man:

1. Introduction including:
  - 1.1 Data and Methods
  - 1.2 Special aspects of data treatment
  - Nothing done as yet
2. Including:
  - 2.1 Nothing done as yet.
  - 2.2.1 Bathymetry
  - 2.2.2 Nature of the bottom
  - 2.2.3 Properties of the sedimentsAuthor: Dr. Jarke  
German Hydrographic Institute  
Bernhard-Nocht Strasse 78  
Hamburg 4  
Germany.
3. Including:
  - 3.1 Climatological data
  - 3.2 Characteristic seasonal weather conditions
  - 3.3 Meteorological services  
(Delivered)
- 4.1 Tides and tidal streams  
Author: Mr. W. Horn  
German Hydrographic Institute  
Bernhard-Nocht-Strasse 78  
Hamburg 4  
Germany.
- 4.2. Currents  
Author: Dr. J.N. Carruthers  
National Institute of Oceanography  
Wormley, Godalming, Surrey,  
England.
- 4.3. Sea and swell  
Author: Dr. Walden  
Secwetteramt  
Bernhard-Nocht Strasse 78  
Hamburg 4  
Germany.
- 4.4. Storm surges  
Author: Dr. G. Tomczak  
German Hydrographic Institute  
Bernhard-Nocht Strasse 78  
Hamburg 4  
Germany.
- 4.5. Water masses. (Printed)
- 4.6. Mixing and turbulence  
Author: Dr. J. Joseph  
AIEA  
Musée Océanographique  
Principauté de Monaco.
- 4.7. Water temperature  
Author: Dr. G. Tomczak (see: 4.4.)

Dr. Heila  
Institute of Marine  
Research  
Helsinki 4  
Finland.

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Liaison man:

- 4.8. Heat budget  
Author: Mr. H. Charnock  
National Institute of Oceanography  
Wormley, Godalming  
England. Dr. Hela
- 4.9. Turbidity  
Author: Dr. Joseph (see: 4.6) - " -
- 4.10. Ice conditions  
Author: Dr. F. Nusser  
German Hydrographic Institute  
Bernhard-Nocht Strasse 78  
Hamburg 4  
Germany. - " -
- 5.1. Salinity  
Author: Dr. Tomczak (see: 4.4.) - " -
- 5.2. Major constituents, alkalinity and oxygen  
with other gases  
Author: Prof. K. Kalle  
(Delivered) - " -
- 5.3. Trace elements  
Author: Dr. R. Johnston (submitted) - " -
- 5.4. Nutrient salts  
Author: Dr. R. Johnston  
Marine Laboratory  
Victoria Road  
Torry  
Aberdeen, Scotland. - " -
- 6.1. Basic Organic Production Prof. J. Krey  
Institut für Meereskunde  
Hohenbergstrasse 2  
Kiel, Germany.
- 6.2. Phytoplankton populations
- 6.3. Zooplankton populations  
Author: Dr. Fraser  
Marine Laboratory  
Victoria Road  
Torry  
Aberdeen, Scotland. - " -
- 6.4. Marine bacteria  
Author: Dr. Shewan  
Torry Research Station  
Dept. of Scientific and Industrial Research  
Aberdeen, Scotland. - " -
- 6.5. Pelagic fish
- 6.10. Demersal fish  
Author: Dr. H.A. Cole  
Fisheries Laboratory  
Lowestoft  
Suffolk, England. Dr. Erik Bertelsen  
Charlottenlund Slot  
Charlottenlund, Denmark.
- 6.6. Fish eggs and larvae  
Author: A. Saville  
Marine Laboratory  
Victoria Road  
Torry  
Aberdeen, Scotland. Prof Krey (see: above)

6.7. Seaweeds  
(or Benthic algae)

Author: Mr. H.T. Powell  
Marine Station  
Millport  
Isle of Cumbrae, Scotland.

Liaison man:  
Dr. Erik Bertelsen  
(see: p. 2)

6.8. Bottom invertebrates  
(or Benthos)

Author: Dr. E. Ziegelmeier  
Biologische Anstalt Helgoland  
Hamburg-Altona 1,  
Palmaille 9.  
Germany.

Prof. P. Korringa  
Rijksinstituut voor  
Visserijonderzoek  
Haringkade 1  
IJmuiden.  
Holland.

6.9. Commercial shellfish

Author: Prof. Korringa  
(Practically completed)

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Obs. In some cases there are more than one author, however, only the first one is mentioned above.

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