

Cover photograph We see Southampton city centre from the air, looking northwards over the Royal Pier and Mayflower Park (where a Boat show is taking place) in the foreground. The low-lying area in the left centre, occupied mainly by industrial buildings, is formed of reclaimed land over Estuarine Alluvium deposits. Most of the rest of the city is built on River Terrace Deposits overlying formations of the Bracklesham Group.

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Natural Environment Research Council BRITISH GEOLOGICAL SURVEY

APPLIED GEOLOGICAL MAPPING SOUTHAMPTON AREA

Area covered by 1:50 000 Geological sheet No. 315 (Southampton) Parts of OS 1:10 000 sheets SU20, SU21, SU22, SU30, SU31, SU32, SU40, SU41, SU42, SU50, SU51 and SU52 VOLUME 2: MAPS OF SOLID GEOLOGY

R. A. Edwards, R. C. Scrivener and A. Forster

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Bibliographic reference EDWARDS, R.A., SCRIVENER, R.C. and FORSTER, A. 1987. Applied geological mapping: Southampton area. Research Report of the British Geological Survey, No ICSO/87/2, vol 2.

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EXETER BRITISH GEOLOGICAL SURVEY 1987



MAPS OF SOLID GEOLOGY (A1-A6)

VOLUME 2

BGS Research Report ICSO/87/2

DESCRIPTION OF THE APPLIED GEOLOGY MAPS

GEOLOGY

Solid geology (Maps A1-A6)

This set of maps consists of six sheets at the 1:25 000 scale showing the solid (pre-Quaternary) geology over the study area. The maps are derived directly from 1:10 000 scale geological maps produced during the most recent (1973-80) survey of the area, by digitising the solid geological lines and transferring them, with the appropriate scale-change, onto the 1:25 000 base maps.

Descriptions of the solid formations shown on the maps are given in the Appendix.

Notes to the user

There is considerable variation in the quality and reliability of the source data used to compile this report and the accompanying set of applied geology maps, as well as a great disparity in the density of site investigation data within the study area. Therefore, the accuracy and reliability of the interpreted information reflects that of the source data. However, emphasis has been placed throughout on the most reliable data, particularly those derived from authoritative sources such as geotechnical engineers and geologists.

Thus the report and maps are to be regarded as the best interpretation of the information available at the time of compilation. They should be used for preliminary studies only and are not intended as a substitute for on-site investigations or detailed local searches. The responsibility for assuring that geological, geotechnical and mineral and water resource data for any given site are as indicated in the maps and in the figures and text of this report must remain solely that of the user.

The possible occurrence of undetected anomalous site conditions should always be anticipated. The indicated occurrences of mineral deposits do not necessarily imply an economic resource. The possible presence of unmapped variable thicknesses of superficial deposits and Made Ground, particularly within the urban area of Southampton, should also be taken into account in any planning procedures.

There is no substitute for the knowledge provided by a detailed site investigation that takes into consideration the extent, nature and location of a proposed development. Therefore the report and maps are intended a) to give guidance on when to seek specialist advice and b) to aid developers in formulating effective investigations.

No information made available after the end of 1986 has been taken into account in this report.

All National Grid references in the report lie within the 100km square SU. Grid references are given to either eight figures (accurate to within 10m), or six figures for more extensive locations.

Data used in preparing this report and associated maps is lodged at the Exeter office of the British Geological Survey. Any enquiries concerning these documents should be directed to that office. Enquiries concerning the computer techniques or methodology should be directed to the Edinburgh or Keyworth office of the Survey. Enquiries about purchase of the report or maps should be

directed to the National Geosciences Data Centre, British Geological Survey, Keyworth, Nottingham NG12 5GG.



THEMATIC GEOLOGY W0/87 SOUTHAMPTON SOLID GEOLOGY British Geological Survey St Just 30 Pennsylvania Road Exeter EX4 6BX 22/32) **EXPLANATION** (SU Rea Ž ပ္ 22/32 22/32 SOUTH DOWNS WINCHESTER DISTRICT

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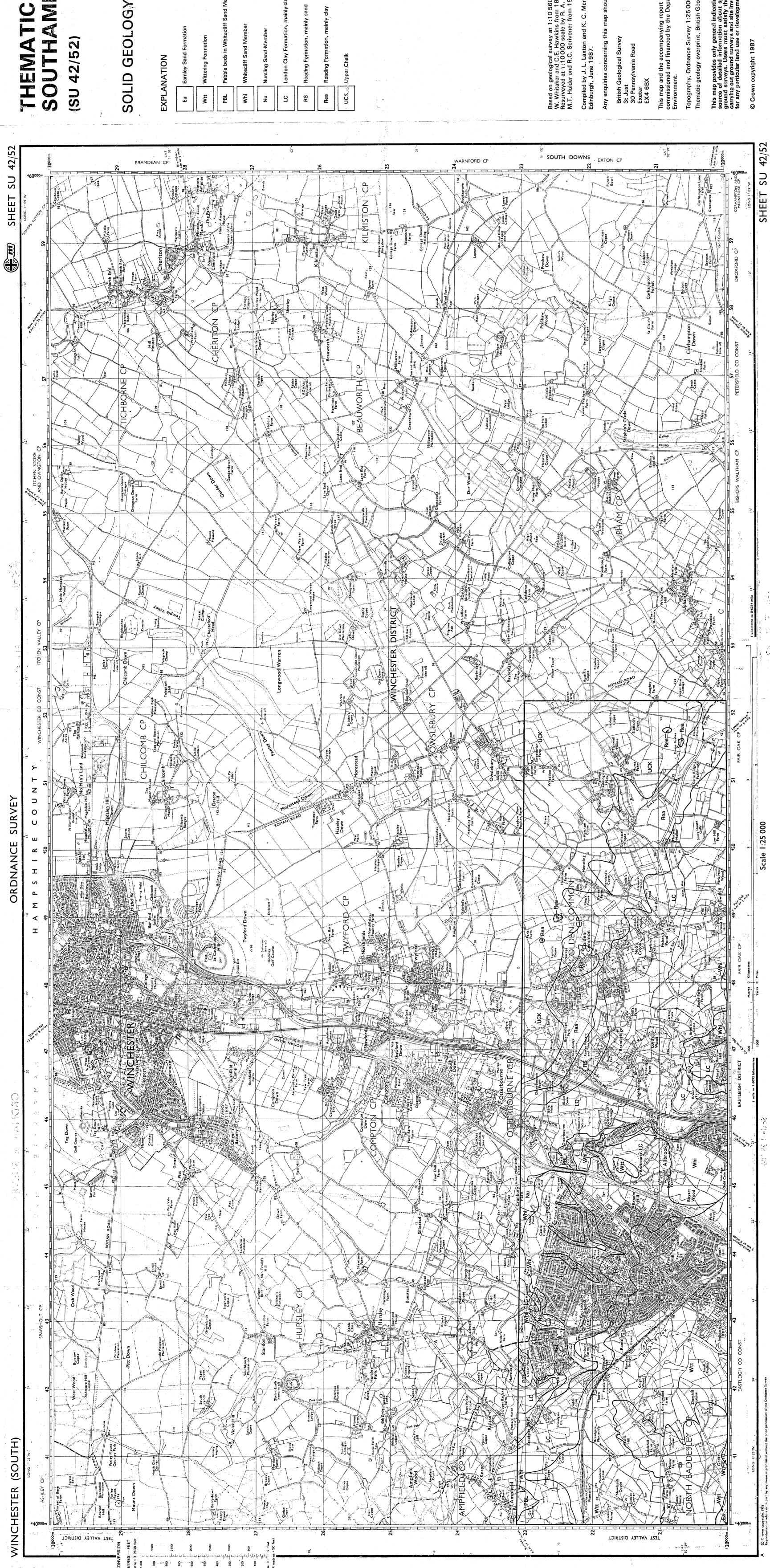
Frenchmoor

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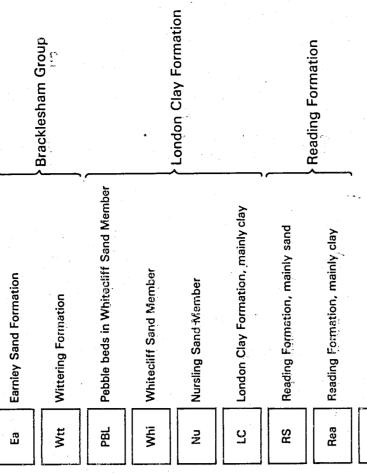
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Dougle Whelpley

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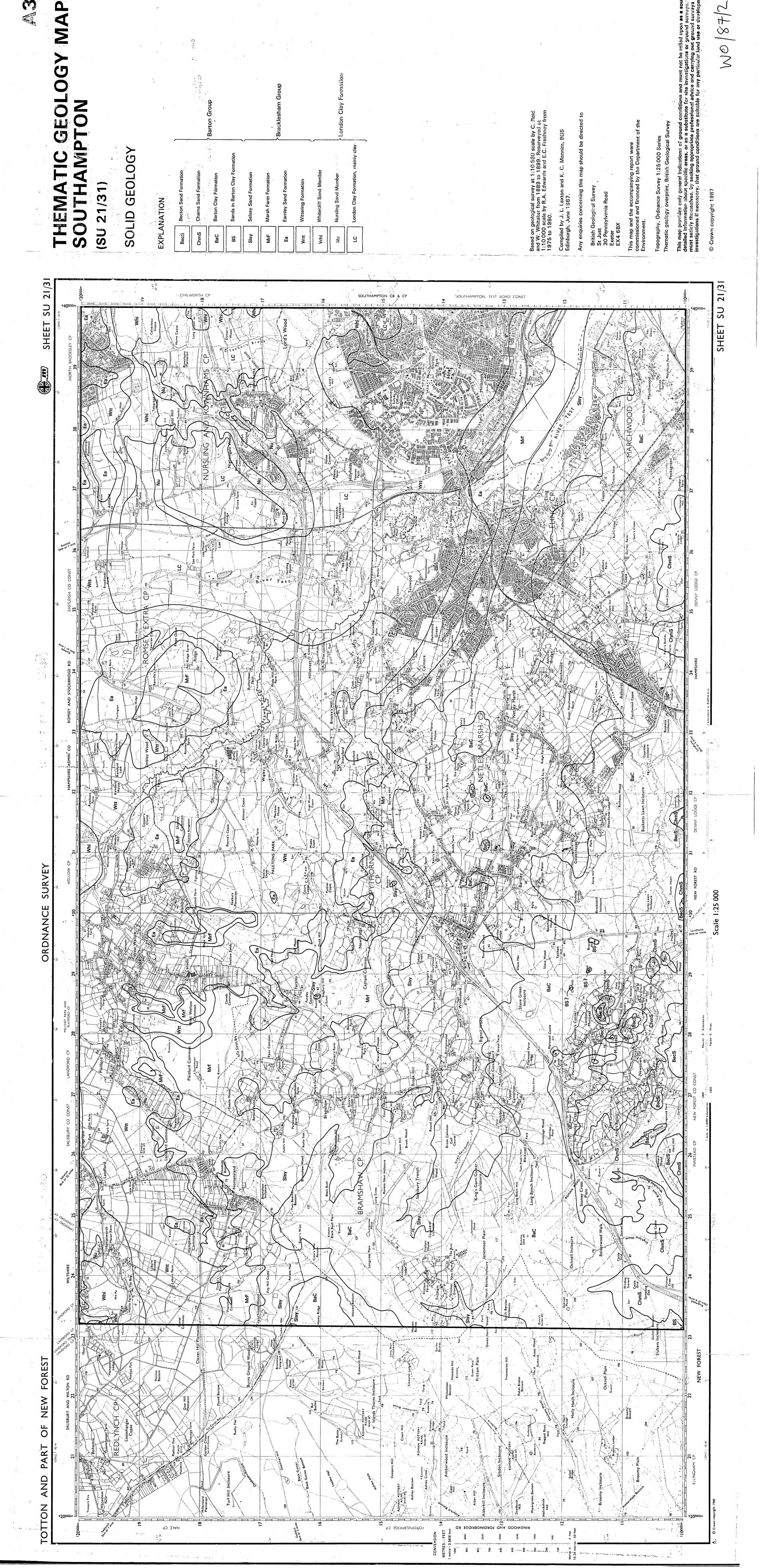
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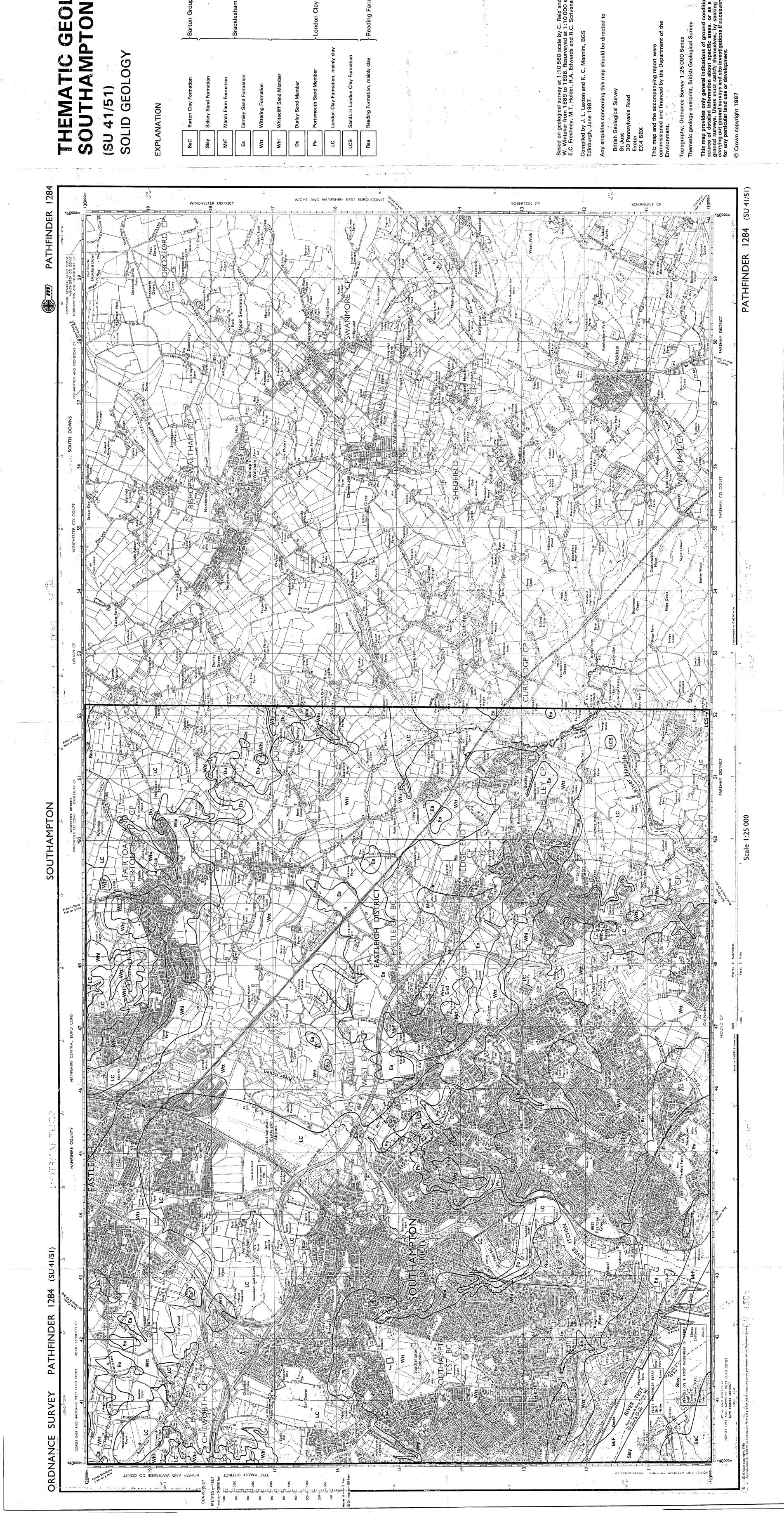


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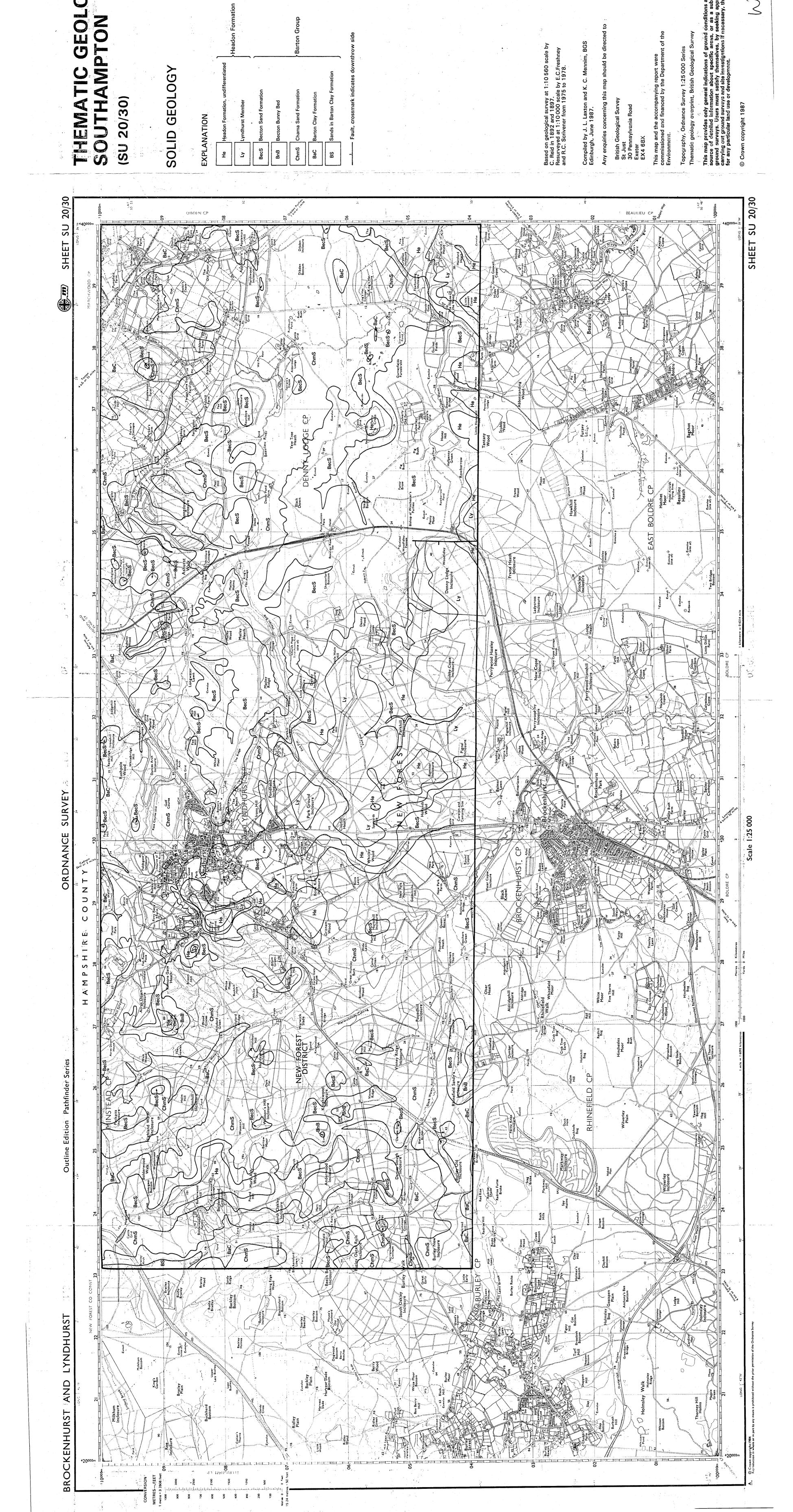
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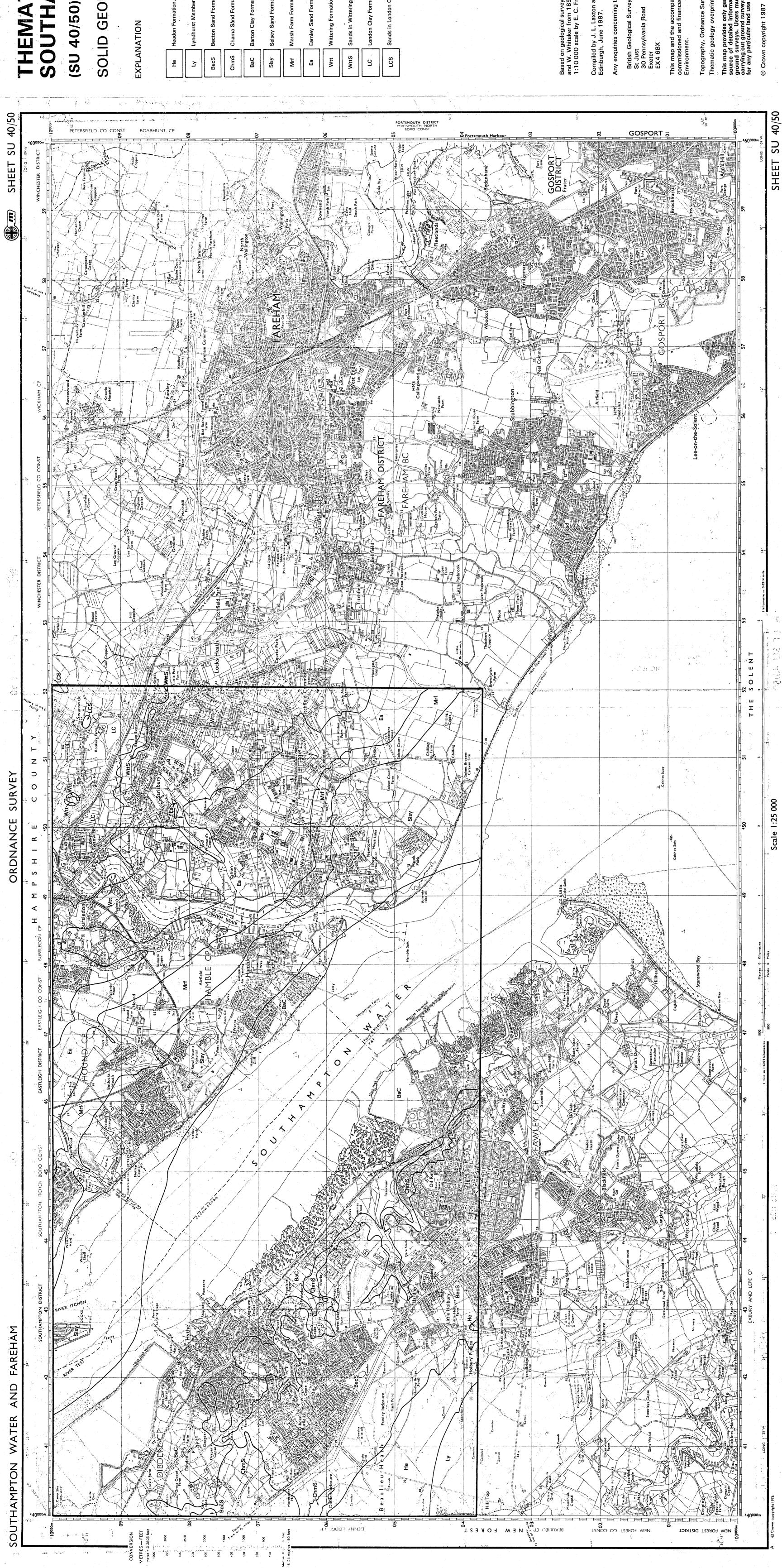
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SOLID GEOLOGY

	► Headon Formation		Barton Group				Bracklesham Group			Condon Clay Formation	LOIDOIL CIAY TOLLIAGO
Headon Formation, undifferentiated	Lyndhurst Member	Becton Sand Formation	Chama Sand Formation	Barton Clay Formation	Selsey Sand Formation	Marsh Farm Formation	Earnley Sand Formation	Wittering Formation	Sands in Wittering Formation	London Clay Formation, mainly clay	Sands in London Clay Formation
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*	24				;						

ditions an	This map provides only general indications of ground conditions an source of detailed information about specific areas, or as a subst
	Topography, Ordnance Survey 1:25 000 Series
	This map and the accompanying report were commissioned and financed by the Department of the Environment.
	30 Pennsylvania Road Exeter EX4 6BX
	Any enquiries concerning this map should be directed to British Geological Survey
	Compiled by J. L. Laxton and K. C. Mennim, BGS Edinburgh, June 1987.
	Based on geological survey at 1:10 560 scale by C. Reid and W. Whitaker from 1891 to 1898. Resurveyed at 1:10 000 scale by E. C. Freshney from 1978 to 1980.