

Cite as [eg] Martin Carver 2004 Sutton Hoo Field Reports Vol 1 FR1/2.2

VOLUME 1 SUTTON HOO FIELD REPORTS PROJECT HISTORY

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1. INTRODUCTION

1.1 *Summary of the Project.*

The Sutton Hoo Research Project was carried out between 1983 and 2001 by a team from the University of York under the direction of Martin Carver.

The project was sponsored by the Sutton Hoo Research Trust, which was composed of representatives of the Society of Antiquaries of London and the British Museum (principal sponsors) and Suffolk County Council (the local authority).

The objective of the project was to explain the presence and practice of the famous ship-burial which had been discovered at Sutton Hoo in 1939.

The method employed was to launch three studies simultaneous: an investigation of the site at Sutton Hoo [fig 4-5], an investigation of the region in which it lay [fig 2, 3] and comparative studies of territories in adjacent countries [fig 1]. The history of the project with supporting documentation is contained in **volume 1** of the Field Report.

The investigation of the site took place in three phases:

- (1) the study of the results from previous campaigns [here **Volume 2**]
- (2) the evaluation of the site to estimate its extent, content and degree of survival [here **Volume 3**]
- (3) the excavation of a selected sample. This was cruciform in shape and about 1 hectare in extent, and estimated to comprise about one quarter of the extent of the cemetery as determined by the evaluation. It consisted of five sectors, north [here **volume 4**], south [here **volume 5**], west [here **volume 6**], east [here **volume 7**] and far east [here **volume 8**].
- (4) the analysis, which led to the reporting of the sequence in each sector [volumes 4-8], and of the palaeoecology [**volume 9**] and the artefacts [**volume 10**].

The result was the revelation of a large cemetery reserved for the aristocracy of the newly created 7th century kingdom of East Anglia. Those using the cemetery were pagans who made conscious reference to burial practices in Scandinavia as well as to Britain's own prehistoric past. The ritual killing of animals and humans was included in the burial rites and the execution of human beings continued in the same place into the middle ages. The previous use of the site in prehistoric and

Roman times was predominately agricultural with the most intensive development in the Beaker period (c2000 BC).

The two principal rewards for history therefore concerned the origins of farming and land division in eastern England, and the origins of English kingship at the time of the Christian conversion.

The results were published in a variety of media [1.2] and the site was consolidated, preserved and presented to the public, with the assistance of a *Sutton Hoo Society*, constituted for the purpose.

The site remained in private hands throughout its investigation, but following the death of Mrs Tranmer in 1993 negotiations eventually brought the whole Sutton Hoo estate into the ownership of the National Trust.

2 Method of Reporting

2.1 Publication of the Regional and Comparative Studies.

The majority of published reports concern the investigations at the site itself. The regional studies were undertaken in the context of the project by Suffolk Archaeological Unit, which remains responsible for their publication. Interim reports will be found in the *Bulletins* [below]. The comparative studies were undertaken at a series of seminars at Cambridge (1984), Ipswich (1984), Oxford (1987), Kalamazoo (1989), Minnesota (1989) and York (1989). The last of three of these were published, as *Sutton Hoo: Fifty Years On* (American Early Medieval Studies 1992), *Voyage to the Other World* (University of Minnesota 1992) and *The Age of Sutton Hoo* (Boydell Press 1992).

A bibliography of Sutton Hoo publications will be found in 3 [below].

2.2 Reporting of the Site Investigations

2.21 The **Field Records** consist of the materials acquired for research. They comprise (1) the Project Files (2) the Site Files (3) The Research Files and (4) The finds.

The *Project Files* contain the administrative records of the project. They have been summarised in Volume 1 of the Field Reports [below]. The originals are held at the University of York.

The *Site Files* contain all the written, drawn and photographic records made on site. They are indexed in section 7 [below] and the originals have been deposited at the British Museum.

The *Research Files* contain the specialist reports undertaken for the project and relevant comparative research already published. Primary material is included in the Field Reports. The research files are indexed in section 8 [below].

The *Finds* are contained in 713 boxes and indexed in volume 10 of the Field Reports. They have been deposited in the British Museum.

2.22 The **Field Reports** is the title given to the present suite of 10 volumes.

Volume 1 contains the papers relating to the history of the project

Volume 2 contains a summary of investigations at the site of Sutton Hoo before 1983.

Volume 3 contains an account of the evaluation conducted from 1983-86 and the project design which resulted from it.

Volumes 4-8 contain the results of the excavations in all sectors.

Volume 9 contains the studies which relate to the palaeoecology of the site

Volume 10 contains the index of the artefacts

2.23 The **Research Report** is the definitive published report, which was published jointly by

The Society of Antiquaries of London and the British Museum, with British Museum Press acting as the publisher, under the title *Sutton Hoo: a seventh century princely burial-ground and its context*.

2.24 The **Bulletins of the Sutton Hoo Research Committee**, Vol 1- 8(1983-93) were the interim reports periodically published by the Sutton Hoo Research Trust. They are published by The Boydell Press, Woodbridge, Suffolk. Volume 3 of the Field reports is a copy of this publication.

2.25 **Saxon** is the periodical published by the Sutton Hoo Society for its members and the public who visit Sutton Hoo. It contains accounts of the discoveries as they were made.

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4. PROJECT HISTORY

4.1 Before 1983

1844: Capt Stanley in *The Blazer* maps the (five) Sutton Hoo mounds.

1860: Excavation of one of five mounds at Sutton Hoo on a farm occupied by Mr Barritt [INT 1]. It is hoped that leave will be obtained to open the others [at least 8 others subsequently opened according to the findings of the 1983-93 campaign].

1911: 12 tumuli noted at Sutton Hoo by the compilers of the *Victoria County History*.

THE EXCAVATION OF MOUNDS 2,3 and 4

1938: Basil Brown cuts trenches through Mound 3 [INT 2], Mound 2 [INT 3], Mound 4 [INT 4],

on behalf of Ipswich Museum. Brown is in the employment of Mrs E Pretty, the landowner.

20 Jun Trial of Mound 1 [Tumulus I] with a probing iron. Work begins on Mound 3 [Tumulus A].

28 Jun Grave pit contacted in Mound 3

2 Jul: Finds excavated on their 'wooden tray' in Mound 3. Reid Moir makes Brown dig down another 6 feet.

6 Jul Mound 2 [Tumulus D] cleared of bracken. A trench commenced [approximately] E-W. A ship rivet found.

7 Jul: Bronze Age hearth with blue faience bead from sieving of this.

14 Jul Grave pit found. It is dug into undisturbed soil. Piece of blue glass and part of a human femur found. At the edge of the pit/grave is a line of dark soil with an occasional ship rivet. Assumed that a ship was present.

19 Jul More pieces of blue glass encountered.

20 Jul Collapse of trench

21 Jul base of 'ship' excavated and fragments of finds retrieved. An iron band at the E end marks "the extremity of the vessel".

22 Jul Second Collapse of trench.

26 July Bottom of ship recovered; it is flat "perhaps caused by pressure". No sign of a keel. The thin black lines on each side of the pit curve to bow shape. The pit is "boat-shaped without any question".

28 Jul A third collapse

29 Jul The Mound 2 excavation finished.

30 Jul: Mound 4 cleared of bracken.

4 Aug Trench into Mound 4 widened to 12 feet. Grave pit and disturbed finds contacted.

1939

THE EXCAVATION OF MOUND 1

8 May: Basil Brown starts work on Mound 1, assisted by John Jacobs (gardener) and William Spooner (gamekeeper), on behalf of Mrs Pretty. Trench is 6 feet wide and laid out on a compass bearing E-W, and driven into the mound at ground level westwards from the E side of the mound.

11 May: First ship-rivet found. Brown becomes aware of prehistoric occupation citing a "Bronze Age hill-top village".

19 May: The ship begins to appear. Maynard (Ipswich Museum) visits and agrees that the site is unique in this country.

30 May: Brown escapes collapse of his trench. The 'Treasure-Seekers pit', with sherds of pottery in it, is found.

End of May; During coffee-break at the Department of Archaeology and Anthropology, C W

Phillips hears that someone is making inquiries of the Isle of Man Museum about Viking ships, having apparently found one in Suffolk.

6 June: Phillips, in his capacity as Secretary to the Prehistoric Society, visits a pre-occupied Maynard (its Treasurer). Maynard soon reveals the source of his anxiety; together they visit Sutton Hoo, finding the bow of the ship uncovered. Phillips advises caution and makes telephone calls to the British Museum and the Ministry of Public Building and Works.

9 Jun: Site meeting, attended by Christopher Hawkes (for BM), Baille Reynolds (for MPBW), J Reid Moir (for Ipswich Museum) and C W Phillips. They decide on a suspension until a [more expert] team can be assembled.

[Brown, however, working for Mrs Pretty, (and not on a scheduled monument), continues to dig almost uninterrupted until the arrival of Phillips].

End of Jun: Phillips, engaged in helping Bersu at Little Woodbury, is invited by MPBW to take over Sutton Hoo.

By 29 Jun: Brown had reached and defined the W end of the ship.

3 Jul: Brown 'cleared the clay deposit amidships exactly above the place where I expect the chief lies'; [note 'cleared' not 'cleaned' "as I want to get on".]

7 Jul: Phillips still not arrived and is said to have hurt his thumb.

8 Jul: Phillips arrives. By this time, Brown has exposed the entire length of the ship and exposed the first grave-goods [eg the cauldron chain].

11 Jul: Work recommenced under Phillips' direction. Maynard and Ipswich Museum asked not to interfere. 12 scaffold poles and a tarpaulin arrive from MPBW.

13 Jul: Excavation of the Chamber begins. The 'clay-pan' [presumably the bottom part of the clay deposit removed by Brown on 3 July] is sectioned. The line of the burial-chamber wall is located.

c 17 Jul: M B Cookson, on a visit, photographed the cleaned, unexcavated, burial chamber. Excavation began at the E end.

19 Jul: Stuart Piggott and Margaret Piggott [later Guido] arrive following invitation from Phillips. Phillips' self-denying ordinance keeps him out of chamber [his weight].

BUCKET 2 is uncovered in the centre.

21 Jul: First jewellery found [**SWORD PYRAMID**]. **WOOD** over drinking horns uncovered. **TEXTILE** exposed.

22 Jul: **HANGING-BOWL** and **COPTIC BOWL** located to W. **PURSE, BUCKLE, GOLD PIECES** showing through wood, photographed by Peggy Guido and excavated. **LAMP** encountered. J B Ward-Perkins present.

23 Jul: **SCEPTRE** exposed and removed; **SHIELD RIM** located under **STAG**. **COPTIC BOWL** lifted. **IRON STANDARD** and **BUCKET 3** located.

24 Jul: **GREAT SILVER DISH** (thought to be a shield) defined. Arrival of O G S Crawford and W F Grimes.

25 Jul: Grimes takes over excavation. Photographic record restarts under Crawford. Piggott draws plans. Excavation of **GREAT SILVER DISH** commenced. **POTTERY BOTTLE** removed.

26 Jul: The pile under the GS DISH commenced. **LAMP** exposed. **STAG** and **BUCKET 3**

exposed.

27 Jul: **STANDARD** lifted; **BUCKET 3** lifted; **SHOULDER CLASPS, SWORD, GOLD JEWELLERY, PIECE of SHIELD, SILVER BOWL** stack exposed and/or lifted. Dr and Mrs G Clarke present.

28 Jul: More of **SHIELD** and **SHIELD-BOSS** exposed. **HELMET** located.

29 Jul: **DRINKING HORN complex** lifted. Pile under the **GS DISH** completed with **MAIL-COAT** and **AXE-HAMMER. CAULDRONS** lifted.

30 Jul: Day off. Grimes, Crawford and the Piggotts depart.

31 Jul: The finds sent off to the British Museum. **IRON-BOUND TUB** lifted. One more **COIN** turns up from cleaning up and sieving.

1 Aug: More fragments of **HELMET** and **MAILCOAT** from sieving. Two more **BRONZE VESSELS** exposed.

3 Aug: Rain

8 Aug: Commander Hutchinson arrives from Greenwich to take over recording of ship. Mercie Lack and Barbara Wagstaff, photographers, arrive and include 8mm movie film in their coverage.

14 Aug: Treasure Trove inquest at Sutton Parish Hall. The Coroner finds for the owner. A few days later, Mrs Pretty announces her gift to the British Museum.

19 Aug: More of the **SHIELD** found during the recording of the ship.

c.20 Aug: H M Chadwick visits and proposes mound 1 to be the burial of Raedwald.

25 Aug: The excavation deemed complete. The ship-trench is filled with bracken and excavators and recorders depart.

3 Sep: War declared.

Autumn of 1939: The finds were packed and sent for storage in the London Underground. Phillips, Crawford, Grimes, Kendrick, Kitzinger and Chadwick write a definitive interim report for *Antiquity*.

All excavators agree there was no body, and propose the Cenotaph theory. The date, from the coins is given as 'not earlier than 650 AD'.

Chadwick, in minority, not convinced by dating or cenotaph, proposes Mound 1 to be the burial of Raedwald, king of East Anglia (d c 625 AD).

Phillips writes interim reports for Ant J, Mariners Mirror etc. Kendrick provides an inventory of finds, using Piggott finds numbers.

Commander Hutchinson dies of a kidney complaint. His records disappear at the same time.

During the War:[1940?] The site is incorporated into anti-glider defences; anti-glider ditches dug by drag line cross the heathland and farm land adjacent. The site is used as a Military Training Area, featuring platoon attack and defence and target practice with live .303 rifle fire and 2" mortars. The mounds and the open mound 1 in particular are used for driving training by Bren Gun Carriers. This is stopped by Ted Wright, then in uniform himself.

1945

The finds return to the British Museum.

1946

Rupert Bruce-Mitford appointed as Sutton Hoo research officer under Kendrick. He has the following records to collect and organise:

- the boxed finds from War storage
- Basil Brown's diary 8 may-11 jul and 17 jun-10 aug.
- Charles Phillips diary 10 jul-25 aug
- 6 plans by S Piggott at 2" to 1 foot [1:6] and Areas I-IV and A-D; drawn up into 4 plans by C Phillips.
- c 750 negatives by Crawford, Phillips, Lack, Wagstaff and others.
- 8mm movie film by Lack and Wagstaff
- Oil paintings by W Robins and Duncan Grant

However not all the photographs are useable, and the plans are not related to the ship. Some of the finds in the boxes are not on the plans; some of the finds mentioned in the records are not in the boxes. Some of the photographs conflict with the plans; and the plans themselves do not quite join up. He sets out to produce a definitive study, and first publishes a **GUIDE**.

1947: **GUIDE** published.

Stag conserved on helmet

1947: Bruce-Mitford publishes a study of Rendelsham

1952: Bruce-Mitford publishes a study of Snape

1964: Sutton Hoo coins redated to before 625 by Lafaurie.

1965- 1971 BRITISH MUSEUM EXCAVATIONS.

Fieldwork at Sutton Hoo by two British Museum teams, resident for long summer seasons at the nearby Wood Hall Hotel.

The *first team*, under Rupert Bruce-Mitford, concentrate on early medieval objectives. The bracken which had grown over the site was cut and a survey was made. The Mound 1 spoil heap was sectioned and sieved for finds. The finds include 1 sherd of Ipswich ware and fragments deriving from the silver bowls, hanging bowl 1 and 3, the stag, the helmet, the shield, the iron stand, the tubs and buckets, the cauldron, gaming pieces, textiles, drinking vessels and cleats [clamps]. New finds included iron buckles and a brooch which could be medieval or later.

The ship-impression was investigated and a plaster cast made of its surviving topography. A phosphate survey was carried out inside the chamber to assist in solving the question of whether there had been a body. The rivets, which were still in situ, were listed, plotted in three dimensions and lifted. The ship trench was then completely excavated. Some timber traces were identified beneath the ship stance.

In 1967, the site of Mound 1 was provided with a cover by British Cellophane Ltd.

In 1970 an inventory of vegetation growing on the site was made.

The *Second team* under Ian Longworth and Ian Kinnes were on site seasonally, in 1966 and from 1968 to 1970. In 1966, they excavated an area to the north [Area A, INT 11] to investigate the prehistoric site, followed in 1968-9 by 6 trenches to the E in pursuit of a major prehistoric boundary ditch [Area B, INT 13-16]. In 1970, a large area [Area C, INT 12] was excavated over part of Mound 5. In addition to the prehistoric discoveries, showing occupation from the neolithic to the iron age, these excavations demonstrated the existence of mound 5 [Burial 5],

made unwitting contact with mound 17, defined three graves with sand-bodies around mound 5 [burials 45, 50, 51], excavated the head of a possible fourth near mound 17 [burial 56] and excavated two cremations which were thought to be early medieval [Burial 13,14].

1968: Stag fitted to standard

1971: Stage comes to rest on whetstone. Helmet reconstructed.

1973 Bruce-Mitford advocates new work at Sutton Hoo at the Garmondsway Memorial Lecture.

31 Jul 1978 The Society of Antiquaries receives an invitation from Mr R D Pretty, the heir of Mrs E Pretty, to sponsor further excavation of the Sutton Hoo burial mounds. Any finds are to join the existing material in the British Museum.

17 Oct 78 'Steering Committee Paper 1' issued

27 Oct 78 'Steering Committee Paper 2' issued

21 Nov 1978 R L S Bruce-Mitford, R J Cramp, P A Rahtz, and B W Cunliffe formally form a steering committee and apply to the Society of Antiquaries Research Committee, with the object of bringing a new Sutton Hoo project to life. Their design includes (1) complete excavation of the burial ground (2) consideration of the excavation of Rendelsham (3) seasonal excavation over 10 years (4) The Society of Antiquaries to take the project under its auspices from fieldwork to publication (5) Project to be administered by a special committee and carried out by Department of Archaeology at York, assisted by that at Durham (6) Direction to be by R Bruce-Mitford and Phillip Rahtz. 'Professor Cramp hopes to participate in the fieldwork with staff from her department'. Professor Dimbleby and Basil Greenhill agree to participate. University of Uppsala to participate (7) Young assistant director to be trained for the succession (8) Publication to be 'distributed amongst a number of specialists' (9) programme to include surface survey of site followed by excavations planned piecemeal year by year (10) Publication by Society of Antiquaries (11) Finds to British Museum.

(During 1978 British Museum put an end to the Sutton Hoo Research Programme, drop the proposed volume IV and close down their Sutton Hoo unit. Both departments [MLA and P and RB] recorded by Bruce-Mitford as being against further work at Sutton Hoo (letter to David Wilson dated 27 Nov 1978.))

30 Nov 1978 The Society of Antiquaries Research Committee gives its approval in principle to a new project and resolves to approach the BM.

1979

14 Feb 1979 Preliminary Meeting between officers of the Society of Antiquaries Research Committee and the British Museum Fieldwork and Excavation Committee. They agree support in principle but seek clarification from the Steering Group on the direction of the project, duration, financial control and publication.

22 Feb 1979 Research Committee turn down steering committee's proposal for dual direction (Rahtz and Bruce-Mitford) in preference for single director working to a representative 'Sutton Hoo Committee'.

26 Feb 1979 Rosemary Cramp reports that the issues are now clear. 'All are agreedthat there is no question of the BM being a half partner but that there should be a Committee which represented various interests. Questions of publication are also a matter for the Director and the Management Committee.' Apparently little support for a new project which has Bruce-Mitford as sole or joint Field Director.

1 March 1979 Phillip Rahtz proposes Sutton Hoo project to the Society of Antiquaries. A Committee containing Rahtz and Bruce-Mitford as advisors to appoint a Field Director with staff seconded by BM. Design advocates new methods and non-destructive survey and raises question

of sampling versus total excavation.

1 July 1979 Rupert Bruce-Mitford withdraws from scheme as proposed on 1 March.

9-11 Nov 1979 Conference on Anglo-Saxon Cemeteries at Oxford. Phillip Rahtz pre-circulates questionnaire on the desirability of a research project at Sutton Hoo. The responses (including those of Leslie Webster, Tania Dickinson, Chris Arnold) mainly critical or negative. Rosemary Cramp finds the meeting is unenthusiastic. She feels that British Archaeology needed 'an international project' but 'immediately one runs into a lot of entrenched opinions and a lot of entrenched interests'.

22 Nov 1979 Steering Committee proposes single director under control of Bruce-Mitford and Rahtz.

29 Nov 1979 Antiquaries Research Committee appoints new sub-committee chaired by Cramp, with Cunliffe, Treasurer, and Dr Stanley West (Suffolk County Council), in order to hear academic evidence on merits of project.

1980

23 Jan 80 Bruce-Mitford wrote: 'I agree with [Valerie Fenwick] except for her belief that perhaps as much as 1/3 of the boat in Mound 2 remains in the ground. The idea that Basil Brown failed to distinguish between boat-filling and natural seems to me implausible'.

25 Jan, 15 Feb 1980 Meetings of the sub-committee [cf 29 Nov 1979) to hear evidence [and to test the temperature]. Includes archaeologists from East Anglia.

The majority view is that the project should go ahead *in a regional context* under an experienced full-time director responsible to a small Sutton Hoo Executive Committee.

21, 28 Feb 1980 Research Committee's final verdict: They are willing to accept invitation to sponsor further excavation in collaboration with the BM and other bodies. The excavation is to be under the overall control of a Sutton Hoo Committee of the Society of Antiquaries, chaired by its president and representing all interests. The excavation is to be conducted by a full-time salaried director, appointed after advertisement for a period of three years initially. The director is to formulate the programme in consultation with Bruce-Mitford and Rahtz, for approval by the full committee. Thereafter the director is to be responsible to a small Executive Committee: Bruce-Mitford, Rahtz, Cunliffe, Cramp (Chair), Evison, Leslie Webster, West and the Society's Treasurer (ex officio).

10 Apr Bruce-Mitford accepts the Research Committee's conditions.

10 Jul BM bid successfully for inclusion of 2 representatives on the Sutton Hoo Executive Committee.

16 Jul 1980 Letter to Robert Pretty, saying 'yes'.

[Source for 31 July to 29 Oct 1980: Abstract from Society of Antiquaries Files by F H Thompson, General Secretary].

7 Aug 1980 BM Trustees ask for review of Antiquaries' conditions: They express disquiet over the proposed budget. They require representatives on the Executive Committee, as set out at the meeting of 10 Jul. The direction is to be acceptable to the BM, and possibly "by secondment from the BM". The Executive Committee is to exclude Dr R L S Bruce-Mitford.

7 Sep Bruce-Mitford proposes clean break with BM.

10 Sep Rosemary Cramp withdraws as chair designate of the Executive Committee.

30 Sep Robert Pretty replies that the new BM conditions depart from his earlier intentions; he

will need to consult the Steering Committee.

16 Oct 1980 Robert Pretty and Rupert Bruce-Mitford announce their intention to present any new finds to the Ashmolean, (who agreed to the proposal on 26 Aug 80) in view of the perceived obstruction and 'foot-dragging' of the British Museum. John Boardman and Colin Renfrew to be invited to join the steering committee (Bruce-Mitford, Cramp, Rahtz, Cunliffe).

27 Oct 1980 A new approach to the Society of Antiquaries from Bruce-Mitford, with Cunliffe and Rahtz and with Martin Biddle in place of Cramp. The main change is to propose the Ashmolean as a partner in place of the BM. This has Mr Pretty's approval.

29 Oct 1980 The new proposal is considered by the Society's Executive Committee. It was agreed to refer it to the officers for discussion, and that the President and Treasurer should still endeavour to arrange a meeting with Mr Pretty, and possibly also with the director of the Ashmolean.

11 Nov 80 Robert Pretty informs BM that they are no longer to be the beneficiary of finds from Sutton Hoo, since 'it seems clear that the Museum does not want my present initiative to succeed'.

1981

During 1981 a deal is struck between the Society of Antiquaries and the British Museum, (mainly through William Watson, as Society of Antiquaries Trustee), creating a Sutton Hoo 'Executive Committee', with two representatives from each of BM and SoA.

6 Jan 1981 Martin Biddle joins Bruce-Mitford's Steering Committee and suggests to Robert Pretty that SoA/BM Executive Committee was underqualified and 'would become a laughing stock in both British and European Archaeology'.

4 Feb 1981 The Antiquaries Executive Committee (under A R Dufty) set out to woo Robert Pretty. Attempt to mollify him and Steering Committee by accepting Bruce-Mitford as Consultant. Express wish to press ahead and belief that the BM is 'now of like mind' and must undertake conservation and eventual custody of the finds ('surely no archaeologist would countenance separation of the Sutton Hoo treasure'). Two committees are proposed, a general committee and an executive.

3 March 1981 Steering Committee (co-ordinated by Phillip Rahtz) reject new arrangement: the design is academically weak, since it concerns only digging the cemetery; the Steering Committee's proposals for landscape and context surveys have been abandoned. The Executive is academically and technically weak; it consists of politically expedient appointees and should be reconstituted. 'If these changes are unacceptable to the British Museum, the Society should be prepared to shoulder the whole initiative.' The finds should still go to the BM but 'not at the cost of their assuming control. If the British Museum is not prepared to accept the finds under these conditions, the Ashmolean still offers a viable alternative. It was better for the finds to be split, rather than accept constraints which could only lead to Sutton Hoo failing to receive the best attention which British Archaeology has to offer.

10 Mar 1981 Bruce-Mitford records his impression of the strong opposition of the staff of the Dept of MLA to further excavation or involvement with Sutton Hoo.

7 May SoA Council decides to make one last attempt to rescue the Sutton Hoo project from impasse.

21 May Informal agreement reached between SoA and BM.

1 Jun 1981 Christopher Brooke (now PSA) attempts to persuade Bruce-Mitford to sacrifice his place on the Executive in exchange for agreement to the other measures demanded by the

Steering Committee.

9 Jul 1981 Brooke issues his manifesto, exhorting all parties to pull together. Bruce-Mitford should be included, since his 'massive publications and expertise give him in the eyes of the world a leading role in any serious discussion of Sutton Hoo'. Bruce-Mitford to be consultant, with role in the choice of director.

11 Jul Christopher Brooke and Rupert Bruce-Mitford meet in an 'apocalyptic thunderstorm and Rupert was marooned on an island'.

30 July BM Trustees adamant about exclusion of Bruce-Mitford. Brooke attempts to complete Bruce-Mitford's self-sacrifice by offering to abandon the project if he cannot condone it proceeding without himself in an executive role.

4 Aug Martin Biddle considers public exclusion of Bruce-Mitford 'a very poor augury for future co-operation... an injustice and an academic malfeasance which will be castigated here and abroad..'

Nov BM concedes that Director is to be appointed subject to agreement of general committee. But David Wilson, Leslie Webster and David Attenborough to be on Executive.

27 Nov 1981 The Society of Antiquaries and the British Museum issue draft letters of agreement. It includes the stipulation, '6. The arrangements dealt with in this letter relate wholly to financial requirements in cash. It is recognised that both parties intend to contribute much to the project in other direct ways, e.g. conservation, publication and staff time; and it is hoped that other bodies to be associated with the project will contribute similarly in addition to money payments. It is agreed that neither the Society nor the Museum will seek to bring such contributions "in kind" into the financial reckoning; nor will they allow other associated bodies to do so.'

28 Nov SoA Research Committee produces revised draft of management proposal for the Sutton Hoo project, master-minded by Christopher Brooke.

1982

14 Feb 1982 Mound 11 found to have been damaged by 'an unauthorised excavation' cut into its centre [INT 17]

29 March Steering Committee accepts new management structure for the project.

6 Apr Bruce-Mitford accepts new structure and agrees to serve on the Sutton Hoo Research Committee.

21 Apr 1982 Robert Pretty accepts new management structure for the project and states his wish that the finds shall be given to the British Museum.

27 Apr John Miller agrees to the excavation in principle on behalf of the landowners.

6 May 1982 First Meeting of the Sutton Hoo Executive Committee. Agenda set by Phillip Rahtz.

27 May First Meeting of the Sutton Hoo Research Committee

9 July SoA and British Museum announce their intention to apply for Scheduled Monument Consent to excavate at Sutton Hoo in the London Gazette.

3 Sep BBC and Sutton Hoo Executive Committee sign agreement.

30 October six candidates (out of 17 applicants) interviewed for the appointment of project Director.

20 Nov Press release announces appointment of Martin Carver [hence MOHC] director of Birmingham University Field Archaeology Unit as 'Director-Designate' and states that negotiations are in progress to integrate his work with Suffolk Archaeological Unit.

24 Nov 1982 Barry Cunliffe says the executive Committee made no firm commitment to conduct the Sutton Hoo project through Suffolk Archaeological Unit. But the terms of the job had changed since the advertisement, and now cite the Unit as being involved in an 'Area' [or 'context'] study. (The area study mentioned in MOHC design is presumably reckoned to belong to this category of work).

1 Dec E Barritt, Suffolk County Council planning officer writes to Brooke announcing his conviction that the Sutton Hoo Exec Committee had appointed his Unit to direct the Sutton Hoo project, with Martin Carver as "Director of the Barrow Cemetery Excavation."

2 Dec Appointment of MOHC approved by DoE, who express themselves pleased that he will continue to serve their interests in the West Midlands.

7 Dec MOHC to run project from Birmingham University along the lines of his submitted Research Design (published as *Bulletin* No1, see below). He declines the offer of direction through, under or with the County Council and recommends sub-contracting of survey work to the Suffolk Unit, either by himself or by the Executive direct.

16 Dec MOHC makes Liaison visit to Peter Wade-Martins at Gressenhall. The Scolle Committee objects to the project. They consider themselves programme makers for East Anglian archaeology, but had not been consulted on either whether or how the project should happen.

17 Dec MOHC makes Liaison visits to the Hawkes and the Biddles at Oxford. Martin Biddle advises avoidance of local government involvement. Also advises MOHC to keep quiet about any temptations he might have to consult others on techniques or interpretation. The Biddles claim to have seen a turf in Ashbee's section through Mound 1.

20 Dec MOHC Visits the site with David Sherlock (DoE) to discuss protection measures. Makes arrangement with *East Anglian Daily Times* offering them first refusal on news (as in 1939). Discussion with John Miller on constraints from owner concludes in an invitation to join a shooting party. (MOHC shoots two pheasants and a duck, thus helping to cement the alliance.)

4.2 THE 1983-01 CAMPAIGN

1983

January 1983 Entry in the *Ipswich Journal* for 24 Nov 1860 discovered by Hugh Moffat and communicated to MOHC by Rosemary Hoppitt.

6 Jan Ed Barritt (Suffolk County Council) invited to Exec Committee meeting to be presented with the Committee's decision to appoint MOHC as sole director of the Sutton Hoo project. The County Council are not considered equal or contending directors. Stanley West is to be offered a seat on the Executive Committee as a token of local control.

24 Jan MOHC Visits Rupert Bruce-Mitford. B-M adamant about the study of the finds being in hands of MOHC and not in those of the BM.

27 Jan The Sutton Hoo Executive Committee met to consider objections emanating from the Scolle Committee. J Hurst believes that SMC will be withheld unless Scolle Committee objections to the project are withdrawn. A public meeting is suggested. MOHC asks for a decision by 28 Feb on whether the project is to go ahead. MOHC against a public meeting, or if there was to be one, believed that the Sutton Hoo Committee should convene it.

28 Jan Letter from Rupert Bruce-Mitford again advises MOHC strongly against offloading any responsibility for finds to the BM.

10 Feb Special Scole meeting held at UEA to present the project to them. Peter Wade-Martins reserved his right to object to SMC at phase 2 of the project. Otherwise the consultative proposals are approved. The proposed London meeting should NOT however be hosted by the Sutton Hoo Committee. MOHC objects that it is the Committee which is offering its proposals for comment; but it is clear that it will not be thought impartial (and it is not impartial). DoE confirm that Committee can apply for SMC in phases, and that the Minister is not obliged to call a public enquiry even if there are objections to our application.

11 Feb Scole Committee announce that they now approve MOHC proposals and will withdraw their unconditional objections, but ask for an initial presentation not to be hosted by MOHC, and reserve their right to object to later phases of the work when SMC is applied for.

19 Feb It is agreed that the Society of Medieval Archaeology should host the initial presentation meeting.

April *Bulletin of the Sutton Hoo Research Committee No 1* published

FIRST SEASON OF EVALUATION

Surface mapping of mown site [INT 18], Fieldwalking in Zones D,E and F [INT 19]

1 April MOHC visits Mrs Tranmer and John Miller to discuss the long term future of the site. They announce their intention to 'sell Sutton Hoo to the highest bidder' to meet additional estate duty of £350 000 - unless MOHC can procure them exemption in another manner. MOHC attends the opening of the Woodbridge Exhibition designed by Rosemary Hoppitt and explores the site with Rupert Bruce-Mitford.

15 April Public meeting held at UCL to which the 1000 members of the Society for Medieval Archaeology were invited, in order to air their views on the Sutton Hoo project. It is chaired by Charles Thomas. The predicted hostility is mollified by addresses from Christopher Brooke and Martin Carver. 'Massive opposition' had been promised by Guardian journalist Ann Maitland, who claimed that it was widely believed that archaeologists had themselves vandalised Mound 11 to justify the new campaign. This does not materialise. Peter Wade-Martins presents his reservations clearly and openly. Most other opposition is less clear or less open. Richard Hall (York) and John Scholfield (London) say the budget is too small. Some opposition to students working on site; this is countered by MOHC manifesto 'to train the next generation of University lecturers to dig'. This appears to please Units and Universities alike. Martin Biddle winds up by announcing that the meeting had been a turning point in British archaeology, 'a project had been presented to the fraternity **before** it had happened', in the shape of a research design which 'we all wish we had written'.

27 May MOHC Visits Charles and Margaret Phillips at 57, Hampton Road Teddington, and learnt the story of T D Kendrick, Miss Elizabeth Senior and why Phillips was not asked to write up the 1939 excavations. When Phillips showed Kendrick the jewellery at Sutton Hoo house 'he nearly passed out'. It confirmed all he had believed about the antecedents of the Lindisfarne Gospels. MOHC receives Phillips' 'Sutton Hoo en Pantoufles' [see FR 2/33]

10 Jun MOHC meeting with Woodbridge Town Council unfruitful. They have no real interest in collaborative development of Museums or display, although they would like MOHC to help develop the Tide Mill Granary, currently derelict.

11 Jun MOHC attempts to persuade John Miller to sign agreement with Sutton Hoo Executive Committee; and to consider offering the Sutton Hoo site to the CTTO (Capital Transfer Tax Office) in exchange for relief from Estate Duty. JM does not accept any claims of the Pretty estate or the BM over the land at Sutton Hoo.

13 Jun MOHC Meeting with BM Conservation Dept (Tite and Williams). Standby conservation service agreed. Meeting with M&LA to view Sutton Hoo archive. The room contains records from 1939, 1966-70 and the artwork for Vols I-III.

13 Jun MOHC meets Richard Macphail and Rob Scaife, DoE research fellows at Inst of Arch. Agreed that agenda for Sutton Hoo should include:

*Micromorphology: to improve on Dimbleby and to study barrow structure;

*Pollen, if peat deposit can be located. Also 'phytosociology' from transects. They would approach the AM Lab, but meanwhile agreed to work on the project in their free time for expenses only.

July Site mowed and cleared by J Bruce, assisted by J Milln. Contour survey commenced [INT 30]. John Newman, Suffolk Archaeological Unit begins SE Kingdom survey supported by grant from Sutton Hoo Executive Committee.

19 Jul Peter Wade-Martins offers *nihil obstat* in a letter to an obdurate Nigel Ker [see 4.3 below]: 'At the London meeting [15 April] I was the only one who was apparently opposed to the project on principle; everyone else appeared to be in favour. That was the time when all of those opposed to the project should have spoken out. If other people wanted to object then they missed their opportunity. Despite my strong reservations, I feel the time for debate is passed, and that we should now do everything possible to make the project a success.'

23 Sep MOHC attempts to persuade Mr Morris (BM) of the necessity of negotiating an agreement immediately with the landowners. The 'covenant' quoted by Bruce-Mitford as giving rights of access and excavation and the ownership of finds to the heirs of the Pretty family and through them the BM, cannot be found and is rumoured to have never existed.

15 Jun Paul Ashbee agrees that the project team should make an inventory of his 1966-70 excavations. Ashbee still wishes to write up the Beaker site however. Recommends Univ of Southampton Crawford archive for 1939 photographs; Ian Graham, ex Inst of Arch, London, for prospection; and Clifford Long and Terry Carney for post-ex work on Mound 1 prehistory.

15 Jun Paul Jordan proposes deal between Anglia TV and BBC.

23 Sep Dr Tress (of Leverhulme Trust) recommends application to Leverhulme for 'soils and survival' project.

14 Nov Andy Copp [AJC] and Cathy Royle [CLR] commence full time work on location : surface survey [INT 18].

Nov Editorial in *Treasure Hunting Monthly* supports project and withdraws earlier objections that the archaeologists were selfish and elitist.

14 Nov Andy Copp [AJC] and Cathy Royle [CLR] installed as site guards and surveyors. Site manned 7 days a week from this point on.

7 Dec Visit from Andrew Saunders (then head of Archaeology in the newly formed English Heritage).

21 Dec Tim Harding and Hilary Sale arrived as site guards over Christmas.

24 Dec 'Very spooky evening....lights heaters and stove all ran out at the same time.. Lots of weird noises outside. The portakabin is now decked in holly and a branch of a nearby tree fulfils the traditional requirement. As the cider stock has now run out we've started on the gin'.

25 Dec(4.00am). 'A rather odd visit by person(s) in mini-van (white). They drove around the far side of the site [ie east track; the portakabin was then in the woods] [and] stopped. Hil went to see what they were up to. On catching sight of her [they] sped off at great speed. Very suspect.' This was the only attempted robbery of Sutton Hoo while in Trust care. Minor vandalism later occurred at Mound 7 and Burial 15. These guards as others in the first two years were cared for by Eyke resident John Warburton.

1984

15 Jan AJC measures up the Dairy Farm buildings; we are hoping to develop the site as our display centre and visitor reception. C L Royle joins the project team.

17 Jan Work begins on the metal detector survey INT 27.

19 Jan Swedish TV crew on site filming AJC and CLR at work.

22 Jan Snow; 'spent the morning melting snow to make tea and do three days worth of washing up.'

23 Jan 'Snow still fairly thick on the ground. No car. No water. Gas running out. Food running out....' MOHC lecturing in Woodbridge.

24 Jan Water supply restored - a slow trickle. 'We turned a table upside down, made a sledge to drag gas bottles through the snow from the end of the lane back to portakabin'.

26 Jan Visits from police and gamekeeper - with present of a duck.

15 Feb Bruce Norman, David Drew, Geoff Bains and Judy Sears and BBC Film crew arrived for first film session.

5 Mar Surface collection in Zone D began [CLR : INT 19].

9 Mar Liz and Roy Hooper, Tim Yarnell and Beanie arrive to take a turn as week end site guard.

19 Mar Article in local paper claims that we expect 1000 visitors a day. Savage reaction from Mrs Tranmer and John Miller setting back negotiations. Routine visit by Colchester Society had to be cancelled as an act of fealty.

22 Mar 'The valuer came to look at the site. He brought his wife and stayed half an hour. Seemed OK' [CLR]

28 Mar Agreement reached with Strutt and Parker for the project to rent the Red Cottages.

24 Apr Jenny Glazebrook arrives to take up post as project secretary [later project manager].

SECOND SEASON OF EVALUATION

Test transects excavated in Zones D [INT 20, 21] and F [INT 22]. Re-excavation of anti-glider ditch [INT 23] and silage pit [INT 31], test excavation in Top Hat Wood, Zone B [INT 24], elimination of grass over mound 5 [INT 25], re-excavation of Basil Brown's trench through Mound 2 begins [INT 26], metal detector survey of Zone A [INT 27], pilot studies of geophysical instruments [magnetometry, INT 28, radar INT 29, fluxgate INT 35].

15 May Visit of the Lovegrove brothers and survey with their "hasonometer" [see FR3/338]

16 May BBC film session

18 May Mike Gorman began radar survey of Area 1 [INT 29]. Maiden flight of Dunsford Flying Machine, supervised by Brian Durham of Oxford Archaeological Unit.

19 May Greater part of complete pot emerged in INT 20 'only just touched by the plough'.

19 May First paying visitors entered pm.

21 May Alf Hatton, Ipswich Museum visited and agreed to take part in an 'Anglo-Saxon Heritage project' based in Ipswich with destination areas at sites such as West Stow and Sutton Hoo.

21 May MOHC to 'Harrow pightle' with Peter Warner, who thinks it's a Saxon temple site. Lies on the 17th green of the golf course above Wilford Bridge.

22 May Heritage Project discussion with Ed Barritt, Keith Wade, Stanley West.

23 May Tony Clarke braves EH embargo to visit and recommend fluxgate and mag sus.

23 May Visit of Edward Morgan, freelance photographer; gave advice on film for day and night work.

23 May Steve Rothera visits and takes on vegetation survey [FR 9/615]. States that the springiness of the turf implies that Zone A has not been ploughed for some considerable time.

24 May Edward Martin Suffolk Unit, pronounces the pot from INT 20 to be Iron Age [now Neolithic]. Gorman reports no radar signal over anti-glider ditch [INT 23].

25 May Tony Wilkinson and Peter Murphy visit to assess chances of a Deben survey, cf Hullbridge Basin Survey. Noted very few exposed sections in river bank and remained dubious of potential for environmental survey.

Sanyo purchased and Malcolm Cooper arrived from BUFAU to inaugurate digital recording system and DBMS

The [IA] pot from INT 20 being used to develop a new MOHC method of recording attitude of fragments believed to belong to a smashed artefact (as in this case). The 'skywards indicator' is a blob of snowpake, on which is drawn a north sign. This means : 'this way round and this side up in the ground'. Each sherd is a find. Theoretically we could one day write a programme which modelled the fragmentation trajectory.

26 May John Selwyn Gummer visited and promised help with display of site if needed.

31 May Peter Berry constructing a box for the camera-kite.

May/June Nigel MacBeth arrives [later became full time site photographer].

1 Jun W S Thompson of Property Growth Insurance declared himself ready to offer an access road, car park and a weather-proof shelter to dig under, @ c £30K. David Attenborough rang to say he had just opened a 'Bovis Coverspan' to cover the chimps tea-party at London Zoo. Meanwhile MOHC decided that too much time was being lost through weather and ordered 65' of agricultural tunnel @ £250 + VAT.

2 Jun Conservation deal negotiated with Andrew Oddy (British Museum)

2 Jun Features emerging in INT 20 now include a palisade trench.

2 Jun Neighbour Les Carter (of Little Sutton Hoo) and family visited; has no objection to car park and access road. Mrs Tranmer happy with arrangements for public to date and with the notion of a "Sutton Hoo Society" to help manage the public.

3 Jun Jon Cane excavated our first inhumation in INT 20 'thus multiplying the value of the archaeology in the field (Zone D,F) by a factor of 10'. Only the legs were in the trench, and the upper leg appeared as a smear at first understandably thought to be a root. The suggestion that it was a burial came from Mark Newman, standing on the edge. This gave confirmation that we would be seeing burials out in the ploughed zones, if they were there.

Andy Copp deeply unhappy about the context maps which had been initiated in INT 20 as trials on the Chalton model. The moment of planning was arbitrary and the taxonomy (context numbering) unsystematic. This resulted in the adaptation of the Yeavinger-inspired 'horizontal sections', called by us first 'definitions' then 'horizons'. Each horizon would be planned and excavated, each being an update of a drawing or a new overlay kept on the drawing board.

MOHC reminds a fiery staff meeting that the point of evaluation is to develop these systems to suit our goals and the terrain, not to quarrel about them.

3 Jun Inaugural Meeting of the Sutton Hoo Society at Seckford Hall Hotel at 2.00 pm. Mike Weaver was elected as Secretary, John Aldridge of Nat West Treasurer. Mac Miles was already in the chair. 'An occasion with a nice positive atmosphere, apart from the usual Cassandra-like statements from Woodbridge Museum. Strong feelings persist about the [future] replica [ship] which must be built and kept at Woodbridge.....some suspicions about the 'Anglo-Saxon Heritage project', which might [become] a rival. Fears allayed, at least partly [MOHC].'

5 Jun Visit of Mr Thompson of PGA. No problem about excavation permission or management agreement for Zone F.

6 Jun Tunnel Shelter arrives and quickly proves itself useless.

6 Jun General address on tidiness and changes to recording. MOHC began a review of the recording system with a view to improving computer compatibility [then Datastar].

8 Jun Paul and Richmal Ashbee visited. Paul identified the two large spoil heaps on the N side [of Mound 1] as Longworth's; the heap on the S side of Mound 1 as Angela Evans'; the three heaps and associated polythene around Mound 7 as the sieving station for the 1966-70 excavation. The southern spoil heaps ran all the way to the trees - long and low and depositing spoil between the barrows. The '1971 Trenches' were identified as being due to T J Carney.

8 Jun Frédéric Hugh Carver born at Ipswich Hospital at 5 pm.

9 Jun Cyril Blomfield and Pat Quin arrive to demonstrate field tests for detection of manganese etc. Showed that the leg of our burial [F 9; aka 'Horace'] was humic but contained very little or no manganese.

11 Jun Barry Baker (HBMC) agreed we could move the identified spoil heaps without SMC.

Tony Clarke reported that his test samples for mag sus were highly magnetic where soil was humic and not otherwise. This boded well for mag sus survey.

14 Jun Film Session

16 Jun Nearing the end on INT 20: strategy modifications for rest of season. Recording system for a grave devised.

18 Jun Grenville Astill and Sue Wright visited and discussed strategy. Grenville urged resistance to temptation to extend INT 20 sideways in order to chase a possible building; F 17 which had presaged a possible Saxon settlement. All agreed it was better to stick to the research design since we had made such play with it as the new protocol in British Archaeology. F 9 to be completely excavated however.

19 Jun MOHC began design of the 'Evaluation portfolio'.

20 Jun Discussed [fairly wild] systems of 3-D location with Dick Spicer. Professional photographer Edward Morgan took portraits of body F 9.

21 Jun Robert Pretty visited. He remembered heathland and a belt of trees ('Coles Copse') to south and north. 16 bombs landed in our Zone F and a Blenheim crashed in Coles Copse (beyond INT 21). He presented us with a folio of drawings by W Robins and a photostat of Norden's Map.

21 Jun The Sutton Hoo Society has its first Council meeting at Mac and Liz Miles' house. The meeting agreed to become a charity and expressed its aspiration to own the site. MOHC to find a Royal patron. The Count de Lengham is to take on hotel advertising. M Weaver is to mastermind the guides.

23 Jun Final overheads of INT 20 taken by kite.

24 Jun Mr Eastry, Rendelsham Estate manager stated to have 'many Aps'. INT 21 completed. INT 22 and 23 underway.

24 Jun The 'securi-geese' arrive, courtesy of Mr and Mrs Constantine-Smith. Prove to be very silly unimaginative birds. Let out on 30 Jun they wander off into the woods. They prefer the black polythene with its puddles [INT 25] or their own pen to anything else. John Miller says he requires a rent of 'a tithe of two birds a quarter'.

25-6 Jun Mayhem under a hot sun. Visits and site tours for Philip and Lorna and York students, Peter Addyman, Peter Wade-Martins, Mrs Tranmer, her two sisters, her friend and her gardener, Anglia TV and the BBC external service in Germany.

York students hostile but inarticulate after indoctrination at York - presumably not by Philip Rahtz!

27 Jun Vinamyl experiments begin. The object is to stabilise running sand. The polymer is derived from oilfeedstock so no C 14 contamination [a misplaced expectation]. Best dilution 1:80. Results very positive especially on sections and pit edges. Much less useful on the flat, giving no structure on humus even at 1:10. On pure sand it fractures and sloughs off like a snake's skin.

29 Jun Visit of Chair and vice-Chair of Suffolk County Council. Management plan drafted.

29 Jun Good progress on INT 22 thanks to a contingent from Wasperton (Phil Voice et al).

30 Jun INT 23 still giving trouble owing to bracken roots; trowelling it is 'rather like cleaning sandy dog'.

30 Jun Visits from John Miller and Ann Tranmer.

3 July Sutton Hoo Executive Committee visits; pleased with site and discoveries; lukewarm about management plan.

4 July INT 23 producing legible section. Thought to be more informative than the stripping of INT 25 is likely to be.

5 July Warwick Thompson and John Aubrey of PGA visit and again assure MOHC of their commitment (car park, access road, shelter). Invite him to write again, which he again does.

6 July Philip Walker and David Sherlock visit and agree removal of spoil heaps. Zones D and F have 'deemed consent' since they are already under the plough. Encouragement for management agreement.

8 July Mrs Tranmer's daughter and her mother-in law visit.

14 Jul Mound 2 reopened and INT 26 begun. Shoring system devised.

15 July The first NIGHT SHIFT scheduled for 1000pm -1230 am [filmed by BBC Mike Fox]. Beautiful clear night with full moon rising at c 11 pm. Illumination provided by Andrews generators; lights and bulbs quite inadequate. Much confusion from shadows of people walking about. Trowelling possible and Munsell colours gave same results as daylight. Very tiring. U/V gave faint glow to F 9.

Best result from sidelighting of surface viewed from forklift. The straight edges showed of the Longworth trench and the barrows were enhanced. 'The light not only caught the subtle contours but the grass [was] differentiated.'. This led to the idea of using floodlighting and a highlift. Shift ended at 2 AM.

16 Jul Film session. Piece to camera on conclusion of trial trenches. They are 'pencils of light shone through the darkness'. Beginning to think that the location chosen for the prestigious Anglo-Saxon cemetery was 'a folk centre which was already some 3000 years old', after the Yeavinger model.

17 Jul Neil Cossons (then Director of National Maritime Museum) visits and is lobbied on the replica of the Mound 1 ship by MOHC.

18 Jul Helen Atkinson introduced herself. Alistair Bartlett shows positive results from fluxgate near INT 20.

20 Jul Visit of Andrew Saunders (Chief Archaeologist, English Heritage). He reaffirms the EH official policy of non-collaboration with SHRT. Doubts that the site could ever raise sufficient revenue to support research. However not against excavation. Considered that total excavation was the best solution to the adjacent fields under the plough.

24 Jul Paul Gosling visits and suggests using the 'flying flock' of sheep to graze the site.

29 Jul Night Shift II. The very bright HMI lighting gave rather sharp shadows or flooded them out. The distant fall of light was best but difficult to photograph from the high-lift, since the high-lift cradle swayed in the breeze during long exposures. Attempted to measure height of the cradle for photogrammetry by using a giant plumb-bob made of a plastic bottle full of sand. Severe sense-of-humour failure by Ray Sutcliffe, though it was perfectly practical. The photogrammetry itself was not possible owing to lack of light at intensities low enough to show detail. However general slides were perfectly successful.

1 Aug SHRT meeting. Lunch under the ash tree in fine weather. It was agreed that a permanent site guard would have to be maintained. 'Anglo-Saxon Heritage' proposals aired by MOHC.

2 Aug Recording problems caused by volunteer Dominic Perrin; the first of many skirmishes with the London dogma - which clearly has little understanding of rural sites with shallow terrain and low definition.

Sean Macgrail visits and agreed to advance replica and approved of the Mike Wade initiative to build it at Kyson Point.

3 Aug The camera-kite strings broke in a strong wind and the kite disappeared trailing its strings at 300 ft over two power lines.

Night Shift III: photography of NE corner under GEC lights by Mick Sharp.

4 Aug Rosemary Cramp and MOHC visit Valerie Fenwick at Burrow Hill. Hard to see why it has to be a monastery.

10 Aug Basil Brown's incursion beginning to be defined 'it seems as though Basil was following a cut in the natural to the east and a cut into redeposited barrow to the west.'

14 Aug INT 24 terminated; no certain EM contact made here in the woods.

Night-shift IV: Fluorescence achieved on F 39 body but none on timber traces. Other surface photographs foiled by rising mist.

15 Aug E section of INT 26 came down after it had been drawn and before the shoring was lowered. It stood to height of 9" (220mm) below the shoring. Normally would have stood, but the section at this point contained a large number of stones derived from Basil Brown's sieving. Six wheelbarrow loads evacuated in clear up.

In cutting back the west section prior to lowering shoring, Gillian Hutchinson produced the famous 'keel profile' [FR 4/ 712]

The section in the E side of the old silage pit [INT 31] was cut back and found to offer a rich sequence. Recorded with photography and annotated polaroid.

16 Aug Lunch with John Miller. He cooked sea trout and we listened to Jessie Norman (Four Last Songs) in a sentimental alcoholic haze. Declared an interest in women, wine, shooting, fishing and mapping ancient seaways, and not at all indifferent to interest and long term security of Sutton Hoo

17 Aug Traces of dark stains on the base of the INT 26 excavation appear to be bracken roots not ancient wood. A 3rd body in the INT 20 extension.

18 Aug Film session and completion of season.

3 Sep Sutton Hoo Executive Committee wound up in favour of a Sutton Hoo Research Trust [see 10 Oct]

11 Sep AJC and CLR back on duty as site guards. They are living at Red Cottages but do tours of the burial mounds at 1730 and 2130 pm.

13 Sep Visit of the British Association for the Advancement of Science (visitors included Leslie Grinsell). A Mr Nunn suggested that the decay products of bodies could include insoluble amino-acids.

13-15 Sep Sutton Hoo Seminar on *Princely Burials* held at Cambridge and the auspices of the Department of Archaeology (Catherine Hills). Social structure rarely matches cemetery structure so Sutton Hoo project meaningless without investigation of settlement pattern (Dickinson). Wealthy graves under barrows or in churches directly reflect the increase of social ranking, in this case moving from Belgium in 6th to SW Bavaria in the 8th (Bohme). No difference in wealth between kings and other nobles according to documents (Wood, I). Sutton Hoo is royal and special : "Sutton Hoo is not only unique, it is the most unique of all the unique burials" (M Biddle).

The seminar reinforced the need to improve remote mapping on both local and regional scales. But the research design outline generally approved. Invitations to Roesdahl (Denmark) and Arrhenius (Sweden) to send students.

Analysis of working patterns in second season shows 9 days rain out of 97 (10%) and 11 days wind (11%); but only one day lost from weather. 59 days were taken up wholly or partly by major visits generally involving MOHC only (61%)

11 Sep AJC and CLR continue mapping.

14 Sep Reported in Sunday Times that John Lawton of York University is importing a bracken-eating moth from South Africa to help control bracken.

23 Sep AJC and CLR survived a car crash.

October . AJC and CLR investigating alarm systems for the protection of the site.

3-5 Oct Sutton Hoo Seminar on *Parameters for a survey of the East Anglian Kingdom* held at Ipswich under the auspices of the University of East Anglia but mainly organised by Suffolk Archaeological Unit (Keith Wade). Wade proposes two part programme, with multi-period investigation of the Deben valley and sampling for the remaining area of the 'Kingdom'.

10 Oct Sutton Hoo Research Trust formed, as a company limited by guarantee with registered offices at the Society of Antiquaries, from the members of the Sutton Hoo Executive Committee and has its first meeting.

13 Oct Wood, iron, feathers, cloth leather meat bread buried in 16 separate features in the first 25 m of INT 22 to test taphonomy (see INT 43).

24 Oct CLR gets a phone call from a man in Orford who wants to bring his grandchildren to see the skeleton [in INT 20]; on explaining that the site had been backfilled he pronounced us a 'a rotten lot' 'worse than a load of vandals'.

26 Oct A southern strip, 8 x 75 yds, of the scheduled area broken up by disc harrow.

9 Nov Eastern strip c 3 x 100 m of scheduled area including the 200/200 grid point damaged by farm vehicles.

7 Dec Surface collection of Zone F finished.

17 Dec 'It's freezing cold this morning. The gas heater doesn't want to work because it's so cold, and the ink refuses to dry on my permatrace. My fingers are stiff. Oh, good, it's starting to rain too. Andy says snow may be forecast for today; I can believe it. I finished inking in Steve Rothera's plan and then finished cataloguing the remaining finds from our transect in Zone F. Andy is plotting the Zone F field walking.'[CLR]

22 Dec Christmas site guards are Andrew Brooker-Carey, Annette Roe, Agostino Favaro and Louise Dilworth.

1985

Jan Mrs Ann Tranmer offers the Sutton Hoo site to CTTO in lieu of Estate Duty. CTTO turn it down.

5 Jan Gas and water frozen. 'All the cups had frozen tea in them, the washing up was solid'. Snow nearly a foot deep.

9 Feb 'There is no need to work this week-end as the rush to finish the field walking is over. We can have a nearly normal week end for a change, but we'll still have to visit the site every few hours '[CLR]

12 Feb Peter Rumble, Chief Executive, English Heritage, declines to enter into discussion on acquisition or guardianship of the site, or assistance with its protection.

16 Feb Temperature -9 C.

22 Feb 8 students down from Birmingham to help with surface collection.

Feb Display boards erected on site by Birmingham University Field Unit to assist in reception of public.

1 May Meeting of Sutton Hoo Research Trust [Unsuccessful] negotiations under way to purchase the Dairy Farm at the bottom of the hill beneath the site, to use as a project headquarters. [Unsuccessful] negotiations with Suffolk CC etc for the foundation of an 'Early English Heritage Centre'. MOHC had won a Leverhulme grant for the study of chemical residues, particularly body-remains on archaeological sites. The Duke of Edinburgh had been approached, and was interested in principle in becoming a patron of the Trust [in the event he preferred to become President of the Sutton Hoo Society].

THIRD SEASON OF EVALUATION

Resistivity trial [INT 36], phosphate survey [INT 37], trial area-excavation [INT 32]. Volunteers, students and temporary staff accommodated in a Farm at Hasketon, specialising in strawberries and turkeys.

3 Aug BBC filming opening of INT 32.

11 Aug '1st definition' designed to remove ploughsoil. 2nd definition to achieve edges of contexts. The INT was divided into 4 lanes: Paul McCullough, Sally Foster, Agostino Favaro,

Malcolm Cooper were their supervisors.

14 Aug Body F9 finally removed. The number of definitions necessary has now risen to 5. However the definition of the definitions continue to cause argument and misunderstandings, particularly between adjacent lanes.

MOHC felt that traces of earthworks were showing in 1st definition: "stone sorting (biggest nearest the middle) and dark earth spread" implied a bank.

14 Aug MOHC informs Trust that the evaluation is nearing completion and the design for the full programme is about to be submitted.

18 Aug F146 (burial 25) was seen before F154 (burial 26), which lay across it and was stratigraphically later. It was decided that 1st and certainly 2nd definition is quite adequate to determine presence of graves. This method (stripping) should be costed as an alternative to remote sensing. Graves were now evident to within 5 m of E baulk, so an additional area will be needed to the E to ascertain limit of cemetery.

19 Aug Fred and Gladys Bettes visited and declared the contour survey of Zone B impossible. They felt that a vertical interval of less than 250mm was impractical.

20 Aug An earth spread had been seen in lane 4 over burials 25/26 and was thought to have been the remains of a barrow. "Slight corroborating evidence from the fact that the second grave (burial 26) had a dark fill and is shallow, compared with all the others which are deeper and have an sand/gravel orange backfill"

Juliet Rogers visited and was pessimistic about ageing or sexing the remains of the sand-bodies. This reinforces MOHC's belief that 'strip, map and sample' offers the best yield.

21 Aug Visit of ISAS. MOHC gives address suggesting (1) the significance of the prehistoric site and (2) the idea of demonstrative burial as a reaction to Christianity, by newly invented kings loyal to the paganism of Scandinavia.

22 Aug INT 39, the eastern extension, opened expertly by Drott. Procedure was (1) pull back 100m deep spit with back-blade; (2) Fork out the next 250mm deep spit with front bucket; (3) doze the next 50mm deep spit using inside edge of the front bucket (4) back blade to 2nd definition to finish. The cost of this procedure was calculated as £6000 per hectare.

The Berry Rainer (spray machine) had been invented and formed part of the 'strip and map' strategy.

23 Aug The definitions again. "It is noticeable that differential cleaning between lanes is obscuring the appreciation of large [scale] surface trends both at first and second definitions."

23 Aug Publicity continues to hot up. "Radio Times article out; MOHC wrote article for the Listener between 6 and 8 pm on Thursday; dictated it to Louise [Dilworth] over the phone on Friday (9-1030); she typed and delivered it to Pebble Mill fax for transmission to the Listener. Listener staff ringing for corrections 1230". East Anglian Daily Times had centre page spread. Anglia TV filmed for Look East. Gave interview to Radio Orwell. Susan Raven rang to check Sunday Times article; "very nicely done even if I [MOHC] went over the top. Emphasis on character of pagan parvenu English".

Visit by Peter Rumble and Andrew Saunders (English Heritage). At this point they reported that they and all the Commissioners "were in favour of owning the site". Andrew Saunders admitted that a research design was unusual 'up to five years ago'.

Visit from Keith Wade and Ted Barnes about the Dairy Farm which they encouraged us to develop.

24 Aug Now evident that graves are NOT necessarily visible after second definition. [This spoils

the optimism in the 'strip and map' strategy.]

25 Aug Excruciating review of forthcoming TV programme by a certain Peter Dunn in Sunday Times. Spiteful and ignorant. "What this film needs is an historian with enough nerve to give this still mysterious site a sense of identity...the plain man's Sutton Hoo". Complained about our 'academic rut'.

27 Aug Filming for BBC Norwich Look East. Did children's piece for Shell News. *The Million Pound Grave* went out on BBC 2. Very disappointed by the coda provided by Rupert B-M. No reference to the revolutionary approach espoused by the new project. He proposed some rather basic questions and announced: "The answer my friends is not blowing in the wind.. it is under my feet."

29 Aug *New Beginnings* goes out on BBC2. The Listener article went out. BBC Norwich programme went out.

30 Aug Good reaction to first TV programme (New Beginnings) from professionals and public. In the Top Ten list for that week's viewing [over 3 million]. Reviewers in Times, Telegraph and Mail however, are nostalgic for more impetuous, adventurous and ignorant days.

30 Aug INT 32 opened with bad quality machining with toothless ditching bucket; confusion due to interference by Colin Aldous, owner of the machine.

31 Aug Graves to be planned every 2-10cms in colour coded conventions. The Berry Graver (shelter for excavators dealing with graves) was constructed.

1 Sep Marianne Birkland drew up MOHC hypothesis for a ship in Mound 2, using Basil Brown's original diary to locate his trench.

2 Sep P A Rahtz arrived and reports dissatisfaction with the project being voiced by Martin Biddle. We are "spending lots of money for no historical result".

3 Sep Visit of G J Wainwright, H Thompson and G Fairclough. Wainwright advised the use of Macphail for micromorphology and soils. Also advised the inclusion (in the project design) of education and presentation - even if not fully costed. Felt our budget was too small and inquired about fund-raising; some kind help from HBMC has now become a distinct possibility again.

Hugh Thompson (Society of Antiquaries) warned "that there is opposition to the present progress.....three years and no increase in historical knowledge".

MOHC countered:

"(1) If they had not accepted my research design, why did they appoint me? I am currently *ahead* of schedule.

(2) The research of an archaeological site requires an archaeological procedure

(3) The investigation of Sutton Hoo without a curation and presentation policy is unethical and pointless

(4) There has been an enormous increase in historical knowledge, although this was not yet the point [ie during the evaluation phase]"

Hugh said that the S of A would not support 8 years work and we should be ready to accept an alternative, like a barrow or two.

MOHC retorts that in that case the Society is not fit to be an archaeological sponsor. If they want to 'dig a barrow or two', they will have to find someone else. The object of archaeology is not to dig things up, but to explain them.

[This was the first, but not the last intimation that the real protectors of the Sutton Hoo project were Wainwright and Cunliffe, rather than the early medievalists.]

Bruce-Mitford visited and apologised for having made criticisms of the project in ignorance.

4 Sep Meetings of the Sutton Hoo Research Trust and Committee. MOHC noted "the predicted aggravation did not materialise.....[and was] hopefully deflated by my opening remarks". The strategy which was likely to emerge from the evaluation was sketched and the committee/Trust asked to accept the programme in principle, even if the estimated budget could not be guaranteed at the outset.

6 Sep P A Rahtz identified the 'sheep' in F163 as a crouched burial.

6 Sep Viewing figures for the programme 1 were 2.8 million and for programme 2, 3.1 million.

7 Sep 6.00am Overhead photographs taken by balloon, courtesy of Brian Ribbans.

In the Mound 2 re-excavation of BB trench, layer 1037 was identified by Gillian and Angela as the profile of the hull of a ship.

14 Sep Visit of Ipswich Archaeological Trust. Discussed the possibility of the cemetery being late pagan and punitive. Support for this notion from Keith Wade.

8 Sep Helen Keeley (AM Lab) visited. She was acquiescent to the use of Richard Macphail on the project.

8 Sep Attenborough calls MOHC a 'star', but has reservations about the direction of the programmes.

10 Sep Visit by Colin Renfrew. Declared that he liked the research design and the proposed excavation strategy; but is dubious about the 'strip and map' strategy, which he found 'profligate'.

Richard Macphail agreed to participate in the project and was awaiting the approach from A M Lab.

11 Sep Definitions again. "Now very unclear that the stone [-enriched] strips really exist or represent earthworks. The gravel cap is very variously distributed, and when cut by features appears to be 'islanded', but is only the relict cap". {ie the stones are not actually in the ploughsoil, but derive from the sub-soil}. The strip and map strategy revised to apply only to Zones D and F - not to Zone A where the surface stratification is likely to be too complicated.

9 Sep Visit by the Scole Committee. They acknowledge that SMC for excavation at Sutton Hoo is now inevitable and turn their energy to the curation and presentation strategy.

12 Sep The large grave (F161) seems to contain a running figure with a wooden implement but it was "not easy to distinguish between bone and wood".

13 Sep The wooden object in F 161 is now reminiscent of a plough; perhaps the 'hurdler' was a ploughman buried with a staff and a plough without a tip.

13 Sep Les Carter complained about the use of the bottom track, but diplomatic catastrophe dissolved in gin.

15 Sep Definitions again. Brushing (as exhorted by Hope-Taylor) shown not to work; cleaning must be done with a trowel. 16x24m is really the smallest area that can be used to observe features.

Photographic recording needs to be devised to capture such an area once it is clean. If recording is done by planning, one person can only plan 4x4m before the surface becomes illegible.

17 sep Visit of a BM contingent: Neil Stratford, Susan Youngs, Katherine East. The excavation and recording system was approved; our numbering system would be adopted by BM, and the accession numbers added if necessary on computer file. They were calm about the prospect of c8000 finds pa.

It was agreed that the current legal status of the site and its contents was quite inadequate. MOHC said he had seen no convincing documentation allowing access, permission to excavate or agreeing ownership of the finds. Niel Stratford agreed to investigate.

18 Sep George Edens of K & C Mouldings arrived to complete cast of body. The hollow in the hand of F161 is a hole where a sample was mistakenly taken.

19 Sep Visit of P A Barker and wife Eve. Approving and excited. MOHC suggested that the post-Roman phases at Wroxeter were the results of organised late Saxon wall-robbing. PAB is indignant: "If I believe your fantasies [ie the ploughman] you can certainly believe mine".

Definitions again. The subsoil varies with depth, making it difficult to use as an indicator of fill-status in adjacent features. It is not always clear from what level a feature was cut. There are instances when the gravel cap had to be removed altogether before a feature became visible.

MOHC decided that the 'strip and map' strategy was wrong, and would not provide much data. It would only show edges [of an indeterminate number of graves]. Furthermore, the sampling which followed was unlikely to be successful; so far the graves are all different. "Every grave tells its own story..... It was right to proceed with great care, and not to decide on an excavation strategy before I understood the [terrain]. Now that I do, it is clear to me that excavation will be very slow, very detailed and need very good people."

20 Sep The top of the old ground surface was found beneath Mound 2 at 33.50 m AOD

25 Sep last formal entry in site guard diary.

25 Sep Flight in a H-53 super Jolly Green Giant helicopter, courtesy of Woodbridge USAF Base. Followed pm by a Balloon flight, memorable for the setting alight of Nigel MacBeth's hair. Bryan Ribbans went up too fast broke the tether and the jolt caused a hundredweight of burnt debris to empty from the canopy on Nigel's head. His camera was contaminated, but he showed great courage and perseverance in going up and finishing the job, until every part of the site had been covered to his satisfaction.

26 Sep Consolidation of F161 begun by a BM team (Nigel Williams) prior to lifting. F137 moulded. Samples for C14 taken from legs and hips of F173.

Night shift for photography in Mound 2 and U/V photography of F163, F 166.

27 Sep Observation by Brett Noble that best preserved bone occurs when a grave cuts into an earlier feature, as F107, 173, 163.

End of season summary: Worked 49 days. Lost none. Recorded 1200m², 384 m² completely, mapped 836 m² to second definition. Excavated 80 features. Recorded 2600 finds (15000 finds now indexed), 15 out of 80 features not prehistoric (13 graves and 2 post-holes). 3000 visitors paid £7000.

4 Dec Meeting of the Sutton Hoo Research Trust. The Project Design for the excavation phase had been circulated; the Trust approved it and 'unanimously supported the completion of the minimum sample as defined in Bull. 5 fig 3 [equivalent to INT 32, 50, 41, 48 and 44].

1986

15 Jan AGM of the Sutton Hoo Research Trust. MOHC insists on Trust's total commitment to research design before the data acquisition phase starts. This commitment was given in the following words:

(a) The Trust has received the Sutton Hoo Project Design prepared by the Research Director, as amended, and approves it in principle. The Trust states its firm intention to complete the minimum sample as defined on Figure 36 of that document [the draft], and its publication.

(b) The Trust has received from the Research Director the revised costings for a programme of six years' excavation (as opposed to eight) at Sutton Hoo. It notes the new annual expenditure anticipated and accepts the responsibility to provide the cost of the project team as stated in Table 11, para 1 for a period of not less than three years ahead.

(c) The Trust notes the plans for a regional survey, as outlined in the revised project design, and resolves to lend its support to them as far as possible.

Proposed by Sir David Wilson, seconded by Professor Evans and carried nem. con.

End of Feb The project design and application for scheduled Monument Consent submitted to the Secretary of State.

FIRST SEASON OF EXCAVATION 1 Jun -13 Sep with a Training Session 5 Aug - 12 Sep.

Excavation of INT 32, and INT 39 to confirm the eastern edge of the cemetery. Excavation of INT 41 begins and is scheduled to run through the winter with the aid of a Manpower Services Scheme team. Project team resident in the Red Cottages, courtesy of Colin Walker. Volunteers resident in the Strawberry Farm, Hasketon, courtesy of Mr Stephenson.

May: MOHC applies for the Chair in Archaeology at York and is appointed. MOHC remains Director of the Trust, but relinquishes salary from 1 Oct 86. The project moved from the Field Archaeology Unit at Birmingham to the Department of Archaeology at York, where it becomes a research project of the University of York.

Jun: New surveying method of plotting finds, contexts and feature edges on a curved surface invented; depends on a theodolite, a rod graduated in millimetres (the 'wand') and a computer programme run on a Psion organiser. The programme written by MOHC is called PLANET (FR1/10).

Jun: Plans for the opening of zone A. Turf to be lifted by hand and shaken; soil to be sieved; all to be stored in 'spoil pounds; with a view to the reconstruction of mounds. Stones from 1/4 in mesh to be kept and checked; 10mm dia sample to be cored from each metre square. [In the event, the turf and all soil cover was returned mixed].

Research Design for the Sutton Hoo project published as *Bulletin* No 4.

The Leverhulme Project on Chemical Decay and Detection on Archaeological Sites commenced under its appointed researcher [Phil Bethell]

7 Aug Scheduled Monument Consent granted by Secretary of State for excavations in Zone A. INT 41 laid out by white-liner from school in 16 quadrants. The turf on the first quadrant of Mound 2 was cut by PA Rahtz at 3.30pm.

7 Aug BBC filming. Piece to camera from the high-lift overlooking INT 41: "3 years and many scientific techniques and instruments and I think we can declare the site evaluation finished. This preparation was necessary - we had to answer that well known archaeological question : where do I dig? Well now we think we know. We have selected the areas we are going to examine, and the Anglo-Saxon burial mounds we are going to open, and there they are laid out with white lines in the quadrants we are going to excavate. Take a last look at Sutton Hoo; It will never look quite like this again. And nor will the story it has to tell."

8 Aug MOHC specified computer software for Sutton Hoo which could plot finds and contexts in 3-D [never subsequently delivered in spite of many experts' efforts in Birmingham, York and IBM]

9 Aug Tree-pits and possible grave (F13) identified on INT 39.

12 Aug Techniques for mound make-up; working for horizon 1 definition on mound 2 described as 'like trowelling a heap of dead airedales'. Tried using a gas paint-stripper followed by Hoover; but acceptable results achieved by rake and trowel and trowel and spray.

13 Aug SHRT meeting. John Knight is introduced and accepted as the Trust's honorary solicitor. Mr Knight confirmed the existence of rights of access and excavation in the ownership of the Pretty family. Robert Pretty had agreed to make over these rights to the Sutton Hoo Research Trust. Ashbee considers that Mound 1 was reconstituted 2m too far west.

20 Aug Visit of Hazel Newey from BM Conservation to discuss lifting of bodies.

21 Aug 'Graves' in INT 39 explained as ice channels from the pleistocene. Tree-pit formation worked out.

23 Aug The Venture Scouts help remove soil from Mound 2. Nick Balaam (AM Lab) visits and endorses tree-pit model. Claims to have seen a similar interpretation in an article by some Belgian. Unlikely to yield pollen. Mound 2 BS likely to produce pollen.

24 Aug Winter session planned: 15 Oct -1 Feb MSC [Manpower Services Commission] team under AJC to work on Mound 2. From 1 Feb: A new MSC scheme to work the full second season.

Discussions on Recovery Levels redefined levels D and E as follows:

Level D: trowelling, sieving with 1/4in mesh with finds referred to context, planning in B/W, sampling by context.

Level E: trowelling, sieving with 1/4 in mesh referred to context and metre-square, planning in colour, sampling by metre square.

All prehistory to be dug at level D and all EM burials at level E

25-28 Aug Filming. Pieces to camera: Tree-pit interpretation and sacred grove; ship rivets on Mound 2; sieving; 'why we don't just dig all the mounds?'.

28 Aug Visit of Geoff Wainwright, Phillip Walker, Graham Fairclough of English Heritage. Offered the services of Nick Balaam to write a research design for the environmental programme. GJW identifies hearth in section of INT 31 as a 'typical burnt mound...for cooking'.

29 Aug PA Rahtz expresses caution over underdigging in INT 39 and 41.

Visit of Chris Smith and Tim Greenwood from Suffolk County Council, together with John Knight. HBMC have recommended that SCC take Sutton Hoo in guardianship. Council keen; they have set aside £2000 towards a car park.

30 Aug Visit of Joachim Herrmann. He says that cemeteries with graves that respect trees are common between the Danube and the Oder. The trees are dated by 'direct association with graves.' Says that phosphate sampling on a 5cm grid has been used on neolithic graves to locate position of limbs (no ref). His latest projects are 'integrated landscape projects' especially on islands.

31 Aug Cabinet shuffle. Jenny Glazebrook to be manager; Andy Copp to be supervisor for INT 32, 39 and Cathy Royle for INT 41.

Sep Christmas dinner and carol singing at the strawberry farm.

15 Dec Sutton Hoo Research Trust meeting. Agreement with University of York for the performance of the Sutton Hoo Research Project drafted and agreed with amendments.

1987

SECOND SEASON OF EXCAVATION Feb 1987 - Feb 1988

Continuation of the Excavation of INT 41. The excavation team is now accommodated in caravans in the trees of Top Hat Wood. A diner is created out of a large caravan. Peter Berry creates a hot shower for the team (the 'Berry Bather'). The permanent staff and MSC team are augmented by a Training season.

April The third BBC programme, the 'Last of the Pagans' is broadcast.

3-5 April Third Sutton Hoo Seminar held at Oxford under the auspices of the Institute of Archaeology (William Filmer-Sankey). An exhausted MOHC speaks clumsily of 'continuity' between prehistoric and Saxon Sutton Hoo, while citing the Saxons' ability to 'read the vocabulary of the landscape'. Richard Bradley, Mike Farley and Edward Martin scornful of continuity but fail to define it. David Miles supportive of value and relevance of prehistoric site. Largely a day of poor definition, weak chairing and fatigue, but in spite of negative mood, the prehistoric agenda just survives.

4 May Recording meeting. Rules for the sections across INT 41, including Mound 2 and 5: "These are not merely to be recorded, but *studied*" [MOHC]. Recording protocols include colour convention drawing and colour photography. The rules for plans were more ambitious; they included the production of 1:100 feature locus maps in "real space" as well as projected on to the horizontal plane. Each quadrant to be recorded by colour photography backed by 1:100 contour/feature survey at each horizon. The whole of an INT's horizon to be recorded by a category 1 photo.

[The real space plans were not delivered, owing to inadequate software and/or advice; colour photography at A4 was backed by survey at 1:10].

The destination of site geometry records was to be:

- (1) Reduced ghosts of all permanent profiles
- (2) Axonometric array of profiles
- (3) 3-D array of surveyed contexts in mounds
- (4) 1:50 3-D plans of bodies, boats etc
- (5) Horizon plans/photos as above.

Horizon 0 was defined as the surface of the mound as found

Horizon 1 was defined as the 'first level at which stratigraphic definition can be made = the [lower] threshold of vegetational scrambling'.

Horizon 2 was defined as the next level of major discontinuity of strata. It may take the form of a consistent surface or the interface with a consistent surface.

Later horizons to be defined as encountered.

The rules were defined for lowering the leading and the trailing quadrants, and for excavating features which crossed a baulk.

9 Jun Attempt to photograph the whole of Horizon 1, INT 41, in one piece, by brushing the trowelled surface. Abandoned, and with it the category 1 photo on 10 Jun. Horizon 2 commenced, quadrant by quadrant, with a more vertical photographic record.

30 Jun The quadrant recording method now 'convincing' although Horizon 2 as a whole was

still 'a long way off'.

An unrecorded Basil Brown trench, with his rusty bucket in situ, found in quad Q.

1 July New Environmental Policy launched. [FR 9/232].

7 July Horizon 2 now visible over Mound 2: this allowed the observations:

(a) The composition of the mound is of turf pieces, irregularly cut, subsoil (buff silty-sand) in wheel-barrow sized dumps, and patches of podsol (light grey sandy-silt). These are irregularly distributed. The podsol deposit may have developed in situ or be redeposited.

(b) There are no secondary burials

(c) Visible features include Basil Brown's trenches, army slit trenches, and possible tree-pits (in M and O) with roots spreading down the mound.

(d) Buried soil emerges most of the way round the mound.

(e) There is a quarry ditch. It is about 3 m wide and maybe 1-2m deep.....However the outer edge is not yet clear because much of it lies in quadrants which are still at Horizon 1.

For this reason, MOHC decided that the whole INT should be reduced to Horizon 2 before the mound was excavated further. "The site will be dug stratigraphically. Recovery levels will be chosen which are appropriate. Pressure from sponsors must not be considered a factor; better to leave it incomplete than wreck it for the sake of financial expedience."

AJC and CLR moved to roles of direct responsibility for executing strategy agreed with MOHC.

9 Jul Visit of Prince Phillip (HRH the Duke of Edinburgh) in his capacity of President of the Sutton Hoo Society. Members of the Society and Trust in attendance, [except for Michael Robbins who felt that protocol did not allow MOHC to introduce him]. Guest appearances by Mike Gorman with his radar, and Paul Reilly and Andrew Walter [IBM] with their 3-space tracker. Anne Tranmer's grand-daughter, Julie Lewis, presented the Duke with a silver replica bowl.

17 Jul MOUND 5: Build up of soil (1118) noted on the flat at quad T. This soil had been ploughed, and gravelly sweeps of a turning plough noted in it.

23 Jul The intact buried soil over Mound 5 platform and the ploughed buried soil being distinguished by sound: over the intact buried soil, the trowel "made little sound and left a texture of velvet; the perturbed version which covered it (1147) announced itself with a tinkle or a rattle, as if the trowel had passed into a layer of grape-nuts". Its removal allowed three graves to show.

Two episodes of post-mound ploughing noted: (1) reduction and scouring of mound by ploughs turning along an E-W axis, and leaving circular sweeps on the E side of Mound 5 (1147 is its fossil); (2) 'A 'narrow-gauge' ploughing, leaving grey silty sand marks on 1132 (dirty subsoil) and ending along a N-S line at the E edge of Mound 5 (as found). This same regime left a deep channel between Mound 5 and Mound 2. The residue from this was 1118 and allied layers, and dished into features, and lapping up onto 1147.

[The earlier of the two goes round the mound; the later respects it. If both these ploughings are 19th century, this implies that Mound 5 was still there in the 19th c. It could of course have been robbed then or earlier].

A grave within a ring-ditch (Burial 12, Mound 20) was spotted by Phil Bethell in quad Y. There are hopes that this heralds the presence of middle-ranking persons in the cemetery.

25 Jul CLR spots the fence line crossing the backfilled ditch in quad Y.

Experiments with horizon finish refine the use of brush (gravel subsoil only) and trowel and spray (for buried soil backgrounds).

30 July Struggle for Mound 2's quarry ditch. All edges questioned especially along G-F boundary. Here the southern edge was extended into mound slippage; 1066 and 1225 both removed. 1225 turned out to have contained a post-medieval tile. 'The mound is so disturbed, in general, that slippage can never be discounted.' At this stage there was even some uncertainty whether the visible ditch was the quarry ditch for Mound 2 or had been cut round it later. In quad F, the character of the deposit within the ditch area led MOHC to propose its use as a cattle watering hole.

The observations here also included (1) Ipswich ware (?) from sandy-blotched layers thought to be primary fill of quarry ditch (ie from 1141 or equivalent) (2) On the N side, in general, blackened stony layers deposited on top of this; (3) On the S side 'at least in G' a mixed grey soil was deposited or disturbed (1225). It contained Ipswich ware (?) and 18th c(?) pottery. (4) A 'buried soil' 1066 formed on top of 1225. (5) A short ditch was cut through 1066 (F116). (6) The whole complex was ploughed up (1141).

31 July 1066 had become slumping from mound make-up. Pottery from 1226 had become 15thc(?); the ditch F116 had become a 'water-hole' and 1141 the churning from the feet of cattle.

7 Aug Horizon 2 achieved over all INT 41.

10 Aug Grave teams formed (M Johnson, M Hummler, A Evans assisted by students). Recording brief issued.

14 Aug Horizon 2 of the whole site photographed after brushing. Recording brief for next stage in each quadrant issued.

21 Aug On Mound 2, a 'weeping line of pebbles' later called the "stone-roll" now visible in all quadrants round Mound 2. The mound is lowered 400mm very quickly (at recovery level B) against the baulks. The soil is being removed at a rate approaching 350 barrows a day. The new surface is called Horizon 3.

14-15 Aug Filming .

31 Aug Sampling of mound contexts added to monoliths from sections; purpose to allow post-hoc identifications of 'turf', 'topsoil', buried soils, subsoil etc. [In practice, the section offers the only reliable description of mound-contexts].

Surveying of contexts for horizon maps tightened up.

1 Sep At Horizon 3, the mound shows the following attributes: the quarry ditch; the edge of the buried soil platform; a turf 'revetment' around the inner edge of the ditch (actually primary ditch fill/growth); stacked turf/subsoil in the mound make up; a gravel 'cap' on top of the mound; Basil Brown's 1938 trench; an earlier robber trench.

Decided to record Horizon overall in two halves W and E to avoid having to wait for all the baulks to be drawn first.

7 Sep 'NS' (=No ship) day on Mound 2. The absence of a ship trench cut through buried soil leads to the sad (if temporary) conclusion that there was no ship at all.

8 Sep Ruthless, if stratigraphically controlled action in quad H to investigate the true edge of quarry ditch and mound under the TV camera. The turf wall and the supposed buried soil reveal themselves as primary ditch fill. The buried soil appears at last, much higher than these. The subsoil outside the mound is now lower than that under the mound; it has been reduced by post-mound ploughing. The effective diameter of the mound is now reduced by about 50%. Basil Brown's boat now accepted as indicating a boat proportionate in size. However, his boat as recorded is not accepted as such as an early medieval vessel.

The stone-roll is the principal if not the only method of distinguishing buried soil from redeposited buried soil.

11 Sep Burial 12 (F114) reveals itself as the grave of a child, rather than a 'middle-ranking person'.

11 Sep In Mound 2, a ship-shaped depression becomes visible, cut across in the middle by INT 26. The outline is pointed at both ends. This outline is visible wholly within Basil Brown's trench [at about level with the top of the buried soil, since we are defining horizon 4]. AJC 'uncharacteristically eager relieved the W ship trench of most of its spoil. There are rivet marks, if not rivets showing.' This feature remained unrecorded and presumably unobserved by AJC. It is likely to have been an anomaly within the back-filled robber-trench, eventually found beneath this area.

13 Sep The 'ship-trench' observed to continue at the E end.

15 Sep BM picnic with Neil Stratford, John Cherry, Leslie Webster, Susan Youngs who were again encouraged to accept the concept of Field Research Procedure, particularly the idea of evaluation, the project design that had followed it, and the consequence of backing a project to conclusion, rather than reviewing it annually.

15 Sep Visit to Snape, being run on similar lines to Sutton Hoo, but no project design in evidence.

16 Sep A roller-skate found at the base of BB's back-fill in Mound 2, underneath a pile of sieving. The order of BB's backfill was roller-skate - stones from sieving thrown in at E end - earth and turf from N side and S side - rain (white sand) - backfilled from entry trench, which was itself backfilled last.

17 Sep Roller-skate no 2 (with string) . No sign of any ship remains now, except at W end.

Quarry ditch inner edge located in all quads. Overdug in quad F.

The excavation of the robber trench/ship trench and burial pit complex by MOHC in the centre of the buried soil platform began and continued in 8 stages until 27 Sep. This operation revealed:

(1) that the original burial was " a chamber-grave with a squared post at each corner and timber sides. At the E end, there seem to be vertical posts, circular in section, as part of the wall. The walls in general comprise a thin black line inside and outside the timber, and infilling of grey-brown clayey loam. This clayey loam presumably provides most of the 'tread' layers removed before stage 8".

(2) the finds within the chamber grave are given at stage 8 by imprints.

(3) the robbers came in from the west, cutting steps F157 down into the chamber. One of these steps was mistaken for the pointed prow of a boat [by us].

(4) the robbers left the pit open. Wash and turf and slump came in from their entry point (W) covering their steps and forming two cones on the NW and SW sides of the chamber. These (1429,1430, 1442-7) were taken for natural deposits by Basil Brown and gave him the pointed prow he was looking for.

(5) Basil Brown cut his trench from the E. He too cut steps and excavated the robber's backfill. He found the square end of the chamber grave (enlarged by the robbers) and the sharp end at the W [above].

(6) The boat must have existed since the rivets were found. Moreover the outer profile of the trench is boat shaped (although disfigured by the robber steps and the BB steps). It is either a secondary burial above the chamber grave or a roof for the chamber grave."

30 Sep Debrief and briefing on conclusion of burial chamber excavation under supervision of Klara Spandl and Mark Johnson.

Oct Sutton Hoo Farm Estate (including Zones D and F) being sold to Peter Waring by Sun Alliance Assurance Company, who first donate the southern strip of the scheduled monument to Sutton Hoo Research Trust, through the good offices of John Knight.

16 Oct. The Great Storm afflicted much of SE England in the early hours of the morning. It levelled most of the trees of the sandlings. The road to Orford, passing through Forestry Commission Land, looks like the Battle of the Somme. The robust oaks of Staverton Thicks endured. The Tranmer Estate lost most of its conifers, although Top Hat Wood was relatively sturdy. Those living on site (Kath Dowse, Jay Carver, Klara Spandl, Mark Johnson) narrowly escape death when the small green caravan and mobile home are smashed by falling trees. They huddle in the caravan-canteen until morning. The clear-up takes several years. Opportunity taken to record the archaeology of blown-down trees as analogies for INT 32.

28 Nov Society of Antiquaries and BM agreed to fund the Trust for 5 years @ £40K pa. Planning meeting with the team includes agreed Fieldwork and Archive Preparation Programmes.

Autumn 1987: Reactions from students at York and elsewhere and discussions within project team lead to the design of a wholly new 'Field School' to replace the 'Training Excavation' idea. Each student to receive personal tuition on each stage and application of excavation [the tutor became Madeleine Hummler, who was largely responsible for the later development of the syllabus.] The course would last three weeks. Those on the course to be designated 'Trainees' and strictly limited in number. Attempts to extend the new concept to other York training excavations initially unsuccessful.

1988

THIRD SEASON OF EXCAVATION Feb 1988 - Feb 1989 MSC Team; Two Field Schools 24 July - 23 Sep.

Programme: Excavation of INT 41 continued (features beneath Mound 2 - re-excavation of Longworth and Kinnes trench (INT 12) - excavation of Mound 5 burial pit/robber trench, F 390 - begin INT 44 completing Horizon 3 by end of Training season; continuation of remote mapping programme: mag.sus. survey of Zone A [INT 45]; radar survey of Mound 6,7 [INT 46]; resistivity survey in advance of the stripping of INT 50 [INT 47].

May 1988 Robert Pretty dies after a brief illness. One of his last acts is to sign over the rights of excavation at Sutton Hoo, inherited from his mother, to the Sutton Hoo Research Trust, and the finds from the Scheduled Area, then covenanted to his family, to the British Museum. John Knight acts as the Trust's solicitor and the broker of this transfer. It has the agreement of Robert's heirs.

May 1988 MOHC filming in Norway with Ray Sutcliffe for the BBC. Both survive the capsizing and loss of the Edda, a replica of the Oseberg ship on its maiden trial in Herøy fjord.

June 1988 The project team move onto the land newly acquired by the Trust at the south end of the barrow site. A long wooden hut, donated by CEGB to the Sutton Hoo Society is erected by Nigel MacBeth and Scout HQ staff. The portakabins and caravans are resited to make an orderly compound. Piped water is laid in the turf along the eastern edge of Zone A, and the compound is wired for electricity supplied by generators. The volunteers and students now camp in orderly 'lines' at the south-west corner of the Trust's land.

12 July 150 (66%) of features under Mound 2 now excavated by AJC. The excavations of Longworth and Kinnes (INT 12) re-emptied and cleaned in 1987. Their robber trench and burial pit (unexcavated) redesignated F 390.

Kate Clark begins programme of remote mapping in Zone A [INT 45]

Sep Horizon 2 in INT 44 located in all quadrants except around mound 7, where the junction between mound make-up and quarry ditch is still masked by the 'slipped trouser' effect.

19 Sep Visit of Ole Crumlin-Pedersen. Agrees the putative Mound 2 ship. It should be, say, 12-15 m long. Believes that the robbing operation could have been ancient and ideological, as at Slusegård.

Sep; Confrontation with new owner of adjacent farmland, Peter Waring, who bulldozes the Trust's access road and public bridle way. MOHC threatens to divert his vehicles across the middle of Waring's field (and cash crop), since this is where the inherited right of access runs. Waring backs down and MOHC/JG fence the access track and bridle way.

21 Oct Mound 5. Angela Evans reports completion of F390 robber trench and burial pit. Fragments of cremated bone and finds recovered; original burial place probably marked by small rectangular depression.

7 Nov Staff Meeting. 7 possible graves defined around Mound 5. Features under Mound 2 nearly complete. ACE thinks the occupant of Mound 5 to be female. Finds index now stands at 42 000 finds.

The micromorphology programme on course; but the pollen programme had collapsed due to non-deliverance by Helen Atkinson. A replacement specialist was being urgently sought.

Remote mapping programme (Kate Clark) on course - mag sus.

9 Dec Staff meeting. Latest burial around Mound 5 [Burial 49] contained fragments of horn or antler and suggested that the pit was dug earlier (but not much earlier) than the grave it contained. 3 possible graves remain to be excavated.

Dec Kathryn Dowse resigns as finds supervisor.

1989

FOURTH SEASON OF EXCAVATION 3 July- 22 Sep - the '50th Anniversary Season'.

Continuation of INT 44 (mounds 6 and 7) and commencement of excavation of the western transect [INT 48, including the remains of Mound 18]. Marquee purchased and erected on floor foundation to provide canteen for growing site team.

25 Jan 1989 Revised research strategy for the project issued

Mar 1989 Programme for the Anniversary season issued

Apr Sutton Hoo TV programme screened at the Cannes Film Festival

May MOHC does lecture tour in USA for AIA; finishes at special Sutton Hoo anniversary conferences at Cornell, Kalamazoo (published as 'Sutton Hoo: Fifty Years On') and Minnesota (published as 'Voyage to the other world').

Jun INT 48 opened. The area is 24m wide to avoid 'slicing into Mound 17' and excavating Longworth and Kinnes's Area A, and placed with its south edge continuous with the central axis of Mound 6. It extends into Zone B.

Finds sampling shown by CLR to be more representative of distribution with level B shovel scraping than by 1/9 sieving. C L Royle leaves the team to start new career as solicitor. Linda

Peacock joins the team as finds supervisor.

5 July INT 48 opened with new procedure: a Drott used to (a) remove turf with back-blade, (b) 'ploughed' to horizon 1 with bucket teeth, and (c) back-bladed to within a cm of horizon 2. Between (a) and (b) the surface is field-walked and metal-detected. The area was salted with modern coins (10p, 5p 2p) to monitor recovery rate.

10 July The machining of INT 48 took 4 days. Relic soil patch unmarked by rabbits located in SE corner exactly coincident with BM 1967-70 spoil heap; suggests that widespread rabbit disturbance we are seeing mainly post-dates the 1960's.

12 July Horizon 3 achieved in all quadrants in INT 44. The best examples [of mound make-up] are in quads K (mound 6) and O (mound 7). Robber trenches clear in mound 6 and 7.

Aug Secondment of Viktor Trifinov, Academy of Sciences, Leningrad.

3 Aug Horizon 2 achieved on INT 48 with great difficulty. Patch of relic soil containing fragments of cremated bone marks the destroyed Mound 18. "Medieval lynchet" accompanied by hedge running parallel to the E.

3 Aug INT 44 "The main problem with the quarry pits is that every identified example was left open [in antiquity] so that no conventional stratigraphic relationship can be observed."

Removal of Mound 6 [make-up] began.

16 Aug Fourth BBC programme ('Sea People') broadcast to an audience of 2.75m.

12 Sep Horizon 4 achieved under Mound 6 and excavation of robber trench began.

19 Sep Visit of Simon Dove [BM Conservation] to lift the battered fragments of the bronze cremation vessel in the robber trench of Mound 6.

29 Sep - 1 Oct Fourth Sutton Hoo Seminar held at King's Manor, York under the auspices of the Department of Archaeology. At a dinner in the Merchant Adventurer's Hall, Julian Glover's performance of Beowulf has the Anglo-Saxonists misty-eyed. The seminar is published by Boydell's as 'The Age of Sutton Hoo'.

1990

FIFTH SEASON OF EXCAVATION

Continuation of the excavation of INT 48, INT 44 (mound 6 and 7); beginning of excavation of INT 50. Resistivity survey over N half of INT 50 [INT 51].

4 July S half of INT 50 opened, its south edge continuous with the south edge of INT 48. Since this was re-aligned with the central axis of the section over Mound 6, it is no longer continuous with the S edge of INT 32. However it is only 2m further N.

The clearance procedure developed on INT 48 used on INT 50, with addition of a second ploughing (increased finds yield by 30%), and raking of Horizon 2 surface followed by second surface collection, rather than relaying on collection from the shovel-scraping that followed.

During this season, 3 INTERVENTIONS (INT 44, 48 and 50) and two burial mounds (Mound 6 and 7) were dug simultaneously. Annette Roe joined the team.

INT 48 (MRH) The recording was finished, a section of the IA enclosure ditch was excavated.

INT 44 Mound 6 (AJC) The robber trench was completed with the identification of the original burial rite (Cremation in bronze bowl) but no certain identification of burial chamber. The

buried soil was lowered to horizon 6, and a trace of an earthwork observed in the northern E-facing baulk. It was thought to belong to a bank inside the IA enclosure.

Mound 6 was wrapped up with polythene, wire mesh and sand-bags for the winter.

INT 44 Mound 7 (ACE, HG, MOHC). The robber trench was recorded and excavated to a depth equivalent to the top of the buried soil.

INT 44 The quarry pits of mounds 6 and 7 seem to be contemporary. There were no graves in them

INT 50 The horizon mapping operation for INT 50 (S) is complete. Two furnished graves found at the W end of INT 50 (Burials 15,16). There are no burials E of Burials 15,16. The area contained prehistoric ditches, pits and tree-pits.

A further 'sacrificial' burial found in the quarry pit adjacent to Mound 5.

1991

SIXTH SEASON OF EXCAVATION (spring) 17 Mar - 7 Apr; and SEVENTH SEASON OF EXCAVATION (Summer) 8 Jul - 30 Sep, (subsequently extended to 5 Nov to complete Mound 17).

This long season completed the greater part of the excavation:

INT 44 : completion of Mound 6 prehistory (AJC) and Mound 7 robber trench and burial pit (ACE,MOHC).

INT 48 (N) : Horizon mapping (MRH) and excavation of Mound 17 (A Roe)

INT 50 (N): Horizon mapping (JGL) and excavation of Mound 14 (G Bruce)

INT 52 (the track between INT 50 and 32; AJC) : Horizon mapping and excavation of graves belonging to group 1 (AJC)

INT 53 : Trench through the valley floor beyond Top Hat Wood to sample deposits and pollen sequence (MOHC, R Scaife)

INT 54 : Re-excavation of samples of organic materials buried in 1985 to test taphonomy (P Bethell)

INT 55 : Horizon mapping (MRH) and excavation of Mound 13 (MRH and G Signorelli).

4 Field Schools were also run, one in the spring season and three in the summer season.

Spring Season: After the disappointment of Mound 18, INT 48 extended with an additional parallel area to the N running from Mound 5 to the Lynchet and including the putative Mound 17. The area is mainly occupied by Longworth and Kinnes's Area A (INT 11). This area would also allow observation of the NW corner of prehistoric enclosure (F56).

21 Mar Machining revealed a 'small platform of clean dark stone free soil in the NW corner of INT 48 (N). This was Mound 17.

4 April INT 53 opened in the valley. 5 episodes of soil formation above subsoil, the most prominent of which (1003) is sand from a major soil moving operation (ie mound building).

5 April At the end of the spring season the position of Mound 17 was clear with ploughed soil to the E of it. INT 50 was opened and Mound 14 defined by shovel scraping. The horizons on INT 52 were complete. Excavation of the graves had begun, and were completed before the start of the summer season. The site was backfilled and the track reinstated.

Summer season

8 July MOHC's 50th birthday party. Mrs Tranmer complains of the noise.

10 July Relic soil preservation good to E as well as W in INT 48. There are plough marks on the E half of INT 48. They cut the IA enclosure ditch (certain) and are cut by the quarry pit (fairly certain). These plough marks are therefore Roman or EM period. A cremation reported either earlier or later than ploughing (uncertain); it was found to be a post-hole containing pottery.

18 July No plough marks beneath Mound 6, which has intact turf on c 30cms of buried soil on the N side.

Mound 17 becomes a whirl of rabbit runs, in which two lozenge shaped pits can be seen emerging.

18 July Robber Trench defined in Mound 14. It has turfed edges and is crossed by E-W ploughing. These do not resemble the ploughmarks under Mound 5. The quarry ditches of Mound 14 have causeways at W and E sides.

22 July The turfline under Mound 6 seems to seal the IA enclosure ditch, implying that the Anglo-Saxons could not have seen this earthwork. But this turf may be turf loaded onto buried soil for mound construction. The fill of the IA enclosure ditch is compact, implying that the ditch has been filled long before the mound was constructed OR that the weight of the mound has caused the compaction.

23 July Mound 7 at stage 6/7

30 July optimistic reappraisal of programme suggest three possible additions:

INT 38 to be dug, in order to confirm if graves lie N of group 1.

A N extension, to check existence of supposed barrows suggested by the McMaster AP

A S extension, joining INT 44 to Mounds 3 and 4 (as indicated in Bulletin 7).

This latter was selected and became INT 55.

30 Jul Preparations for the backfilling and consolidation of the site planned.

2 Aug On a stroll, MOHC and CLR compose a 'garden cemetery' model for the Anglo-Saxon cemetery, which allows cultivation and burial to take place simultaneously in different parts of the burial ground. MRH suggests that the group 1 burials may have been sited around a tree.

8 Aug Under Mound 6, a hearth lies without dishing on hor 6. Hor 6 should therefore be a buried BA ground surface. Horizons interpreted as having equated to:

Horizon 1: bottom of recent ploughing

Horizon 2: top of subsoil OR top of mound features

Horizon 3: a horizon within a mound

Horizon 4: Top of Anglo-Saxon Old Ground Surface

Horizon 5: Bottom of Anglo-Saxon period ploughing

Horizon 6: Top of Bronze Age buried old land surface

Horizon 7: Top of subsoil under a mound.

8 Aug The quarry ditches of Mound 14 coming out in copy book style. There is a patch of charcoal under some wind blow which should give a date for this episode [Medieval hearth].

15 Aug INT 50. The medieval track runs over the Mound 14 quarry ditch, but through a gap in the BA land division. implying the latter was still visible in the middle ages. But since these earthworks are not incorporated in the construction of Mound 14, the Anglo-Saxons must have ploughed the mound platform [only?] just before the construction of the mound.

19 Aug Departure of AJC to begin a new career.

29 Aug INT 55 to Horizon 2. A gold and garnet cylinder (Find 65) was found during trowelling. It was not burnt.

5 Sep Antiquaries visit. Enthusiasm for the reconstruction of more than one mound. Ashbee feels that the pottery-rich "post-holes" are more probably ritual deposits. Contented acceptance of human sacrifice.

12 Sep Barry Cunliffe takes over as Chairman of the Trust.

15 Sep-3 Nov Excavation of Mound 17 [see vol 6]. A Conservation Team from the British Museum on site from 2 Nov (Hazel Newey, Fleur Shearman and Man-Yee Liu). All finds, including the large soil block containing the harness lifted by 7 Nov.

The soil block was the subject of controversy, when it seemed doubtful that the BM [MLA] would be willing or able to excavate it in house. Initial arrangements were made with the BM conservators and the YAT Conservation Lab to have the block transported, excavated, researched and conserved in York where it could be supervised by MOHC. Protestations from the BM (Webster, Evans) that they could deliver rapid and meticulous excavation and recording resulted in MOHC agreement to let it go to BM. [However no complete report had been received in 2001 ten years later, when all other aspects of the study has been submitted in their final form].

8 Nov JG and LP drive the soil block to the BM. *It arrived and work started on it in November 1991.*

1992

EIGHTH SEASON OF FIELDWORK Mar/April

Completion of INT 55

In this spring season INT 55 was completed (MRH) and the supposed robber pit between Burials 9 and 10 under Mound 17 was excavated (AJC, returned from his brief absence from archaeology).

PROGRAMME OF PUBLICATION, CONSERVATION and PRESENTATION

Immediately following this season Mound 2 was reconstructed and the whole excavated area backfilled, consolidated and landscaped, apart from Mound 2 and its quarry ditch in the topography encountered in 1983.

1993: A management contract was concluded with English Heritage, in which a capital grant to construct a fence was to be followed by 5 years revenue grant to support a caretaker. The caretaker appointed was Peter Berry.

A Sutton Hoo Management Committee was convened by Suffolk County Council (Planning Office) to co-ordinate the efforts being made by those organisations concerned about the future of the site (Suffolk County Council, Sutton Hoo Research Trust, Sutton Hoo Society, English Heritage).

It was suggested by MOHC to John Miller that the National Trust might be a suitable recipient for the site should Mrs Tranmer or Valerie Lewis consider disposing of the estate for tax benefits or other reasons. The National Trust would probably prefer to acquire the whole estate and redistribute it, should that coincide with the wishes of the estate's Trustees and heir. John Miller signalled his interest in receiving an approach from the National Trust, and MOHC let this be known to Merlin Waterston of the National Trust, East Anglia, with whom contact had already been established through Elizabeth Beasley.

Mrs Tranmer died at Christmas. John Miller announced his intention to proceed with negotiations with the National Trust on behalf of Valerie Lewis (daughter) as soon as the estate emerged from probate.

1994 A fence was erected around the site using the grant from English Heritage. Peter Berry eliminated rabbits and made the site tidy. The grass returned of itself to the excavated area which was becoming invisible.

1995 Field Reports and Research Report being prepared at York

1996 Field Reports and Research Report being prepared at York

1997 Heritage Lottery Fund award the National Trust £3.6m for the construction of a Visitor Centre. The National Trust accept the Sutton Hoo estate from the Trustees of the Tranmer family. Sutton Hoo House is to be renamed Tranmer House.

Responsibility for managing the Sutton Hoo site passed from the Sutton Hoo Research Trust to the National Trust.

Ordering of the *Field Reports* completed by Madeleine Hummler.

The *Research Report* completed in draft and is circulated to referees.

1998 *Sutton Hoo Burial Ground of Kings* published by BMP.

1999 Referees' comments on the Research Report complete. BM appoint Sue Hirst as technical editor.

Evaluation of the Tranmer House area by Suffolk Archaeological Unit in advance of the design of a Visitor Centre.

2000 Excavations by Suffolk Archaeological Unit near Tranmer House in advance of the National Trust Visitor Centre locate an Anglo-Saxon cemetery of the 6-7th century.

2001 Sue Hirst completes editing. Final draft of the Research Report submitted to BMP. Archive transferred to the British Museum.. Assets and rights of the Sutton Hoo Research Trust passed to the National Trust.

2002 13 March. New Sutton Hoo Visitor Centre opened by Seamus Heaney

2003 April BMP appoint Sean Kingston as technical editor.

2004 April Sean Kingston completes editing of Chapter 1-14

4.3 *Summary of Reactions to the draft Project Design, circulated 1986.*

4.3.1 Comments in response to circulated copy

Actions taken/alterations made, in italics. [No comment means no action was taken, because MOHC did not agree with the criticism].

G J Wainwright, HBMC: Best of its kind yet made.

Environmental design weak [*A contribution to be drafted by N Balaam*]

J Hurst, HBMC : Lack of documentary research.

Objection from N Kerr has been lodged with the Secretary of State

R L S Bruce-Mitford, Consultant: Lack of flexibility. Should be ready to abandon planned excavation programme in favour of more barrows. The prehistory is largely irrelevant. Insufficient importance given to the early medieval artefacts. The preliminary interpretations of Mound 2 [as having contained a ship] and grave F161 [as representing a ploughman/plough] are doubtful.

M Biddle, Sutton Hoo Research Committee: control baulks are compulsory , not optional. [The procedure was tightened to emphasise routine provision of running sections through mounds, to stand for the height between one horizon and another or the height that the soil could support without collapse - estimated at 1 metre]. Insufficient importance given to the early medieval artefacts. Planned area for excavation is too small. The regional/context survey [of the Deben Valley and East Anglia] is not the Trust's responsibility and should be omitted. Professional staff unnecessary and the volunteer budget should be cut. Fieldwalking (surface collection) is not representative of subsurface features.

Scole Committee: The existence of the new mounds (nos 17 and 18) is to be doubted. The identification of grave F161 as a ploughman is not justified or scholarly [*the word ploughman put into inverted commas where it is referred to in the text*] It was wrong to quote Richard MacPhail as a contributor to the project, when English Heritage did not agree his participation. The validity and expertise of P Warner's contribution is to be doubted [*It later received support from M Gelling*]

It is understood that sufficient funds are not available. Insufficient detail/importance is given to the Regional survey [*referred back to its author, K Wade, Suffolk Archaeological Unit*]. There is no statement of how the environmental or C14 analysis will be paid for. The management of the project is of inadequate quality. The area to be excavated was adopted as a financial expedient. It does not answer the question of the prehistoric and early medieval landscape [*The 'question' in question is presumably 'what was it?'*]

There should be no planning for the development of the site for presentation for the public before its future is secure.

Society of Antiquaries : The project design is approved, but not the budget; this should be cut.

4.3.2 Transcript of letter from Nigel Kerr to Dr T M Dickinson

3 Dovedale Close
Grantham
Lincolnshire

23.v.83

Dear Tania

First let me thank you for your kind hospitality of the other evening. It was good to see both you and Oliver again and to hear of your activities.

You will recall that we discussed the Sutton Hoo project in general terms, and I intimated that I had some reservations about it. I also explained that I was unable to attend the recent meeting in London owing to a prior commitment. This was unfortunate, doubly so because as far as I am aware, nobody has publicly raised the sort of misgivings which I have about the project.

I have accordingly followed your advice and committed the substance of my points to paper; this is not necessarily an exhaustive or final list, but it will serve for discussion for the present. Let me say immediately that I realise that only a partial excavation is probably under contemplation at present, but the principles which I argue apply as much to the part as the whole. Our generation of scholars has had a great deal of information from the site, and I really do fear for the future if we do not control our enthusiasm now.

Since I understand that the DoE has or will in the future advertise the project in the 'London Gazette', as required by the scheduled monument consent procedure under the provisions of the Ancient Monuments and Archaeological Areas Act 1979, some opportunity for the hearing of dissenting voices will be afforded. However, I am not anxious to embark upon capricious or unreasonable criticism of the project, and so I would be very grateful to have your comments on the enclosed document.

Concerning the Snape boat burial, it was as much for the intriguing details of the boat's construction as for the finds per se that I was advocating its further investigation. Apart from the boat barrow itself, there are the other four, of course, not to mention the 'standard' flat cemetery around them. All this adds up to a significant body of information.

Well, I hope my remarks don't appear unreasonable; you might not be surprised to hear that the motto of the sept of the Clan Kerr is 'Late but in Earnest'. It is in this spirit that I enter this debate. Quite apart from anything else, it is difficult for we self-employed followers of Anglo-Saxon matters to afford to attend conferences in London for the odd couple of hours or to pop down to meetings in Oxford!

Best wishes

(Signed) Nigel Kerr

Enclosure to letter from Nigel Kerr

Inasmuch as the proposed work at Sutton Hoo will involve destruction of archaeological deposits (ie excavation), I wish to register the following caveats, which can be neatly summarised in Article 2, Clause 'b' of the European Convention on the Protection of the Archaeological Heritage, to which the UK was signatory:

'With the object of ensuring the protection of deposits and sites where archaeological objects lie hidden, each Contracting Party undertakes to take such measures as may be possible in order:

- (b) to create reserve zones for the preservation of material evidence to be excavated by later generations of archaeologists'.

This undertaking applies to the generality of archaeological sites; it must be taken to apply even more strongly to a site of the importance of Sutton Hoo.

Two excavations have taken place at Sutton Hoo within the last forty years. Many questions remain unanswered about the site. Notwithstanding the application of the most advanced available technology, it is still not possible to say with certainty whether or not there was a burial in Mound 1.

Results of the excavations have only been published quite recently, and are still the source of considerable debate. Are we yet in a position to formulate a research design based upon mature consideration?

Although the funding available for the project appears relatively generous in archaeological terms, it is insignificant when compared with that available in other areas of scientific research. Would any other research design contemplate the destruction of unique and irrecoverable data on such a basis?

Since the site of Sutton Hoo is a scheduled Ancient Monument, broader issues of public interest

are inevitably raised. The Law does not preserve sites for the benefit of archaeologists solely, but for the common weal. Is this broader interest served by the destruction of the very monument which the Law protects?

In the light of recent technological advances in the non-destructive analysis of buried sites, eg remote sensing of metal objects, might not prudence dictate that the destruction of such an important site be deferred for an agreed period in order to take advantage of future developments?

It has been suggested that Sutton Hoo could act as the 'test bed' for new methods of destructive and non-destructive site analysis. This is surely a logical fallacy - the place for such experimentation is on sites of less importance. Only the most rigorously proved and tested techniques should be permitted to be used in such a context.

Sutton Hoo Mound 1 is the only Dark Age ship burial which has so far been excavated under modern conditions in Britain. The other mounds there might or might not contain further ship burials. It would surely be desirable to obtain further experience of such sites before tackling any of the other Sutton Hoo mounds. As far as I am aware, there is no proposal to undertake such work.

The site of at least one other Dark Age ship burial is known, namely that at Snape (Suffolk). This site was unsatisfactorily excavated in the last century, and is not now as well preserved as is the site of Sutton Hoo. Snape would be an ideal site to re-excavate in order to gain wider experience of the difficulties involved in such specialist excavations.

Furthermore, since the Snape site is, unlike Sutton Hoo, subject to agricultural activities, it can fairly be said to be under threat. Certainly the area round the site (ie its archaeological context) is being gradually destroyed by cultivation. Would not the simple logic of resource management dictate that this site should in any case be investigated and recorded before the work at Sutton Hoo proceeds?

Finally, there are three broader areas of consideration which bear upon this project, these are:

1. Is this the best use to which the finance available can be put in the overall context of Anglo-Saxon archaeological research?
2. Is it wise to embark upon the investigation of another Anglo-Saxon burial site of any sort when no general synthesis of Anglo-Saxon burial archaeology has been compiled in recent times?
3. Are the wider interests of archaeology served by this project? Sutton Hoo is inevitably associated in the public mind with precious objects. Whilst the objects of the research proposed may not be geared toward the recovery of further high-value material, it might well prove difficult to clarify this difference in the public mind. This is particularly relevant at a time when archaeology is engaged in an active campaign against financially-motivated 'treasure hunters' who have already accused archaeologists of 'professional jealousy' in wanting to retain exclusive rights of discovery of precious objects for their own selfish ends.

NOTE: This document represents my personal views made in a spirit of constructive comment. No personal or other criticism is intended of the organisers or supporters of the proposed project. I merely feel that these points should be raised and discussed if they haven't been already.

Presented by Nigel Kerr

Whit Sunday, 1983

5.1 Participants - Those Who Worked on the Sutton Hoo Site

Adams Luke
Allen Ralph

Anderson Kate, (Asst. Supervisor)
Andrew Jonathan
Andrew Colin
Andrew(The Scout Association)
Ansell-Bell Karissa
Aprosio Maria
Artoli Simonetta (Società Lombarda di Archeologia)
Atkinson Natasha
Atkinson Helen (Environmental Co-ordinator)
Augarde Louise

Bailey Martin (Manpower Services Commission)
Bailey Helen
Bailey Simon
Banham Lee (MSC Team)

Banyard Sue
Barfield Sebastian
Bartlett Catherine
Bartlett Gareth
Batchelor Simon (University of York)
Beals Karissa
Bechtold Babette (Asst. Supervisor)
Beckett Gary (MSC Team)
Beedel Suzanne
Beeston Hamish
Bellingham Lisa (University of York)
Benton Louise
Bernardi Giorgio (Società Lombarda di Archeologia)
Bernhardt Tomas (University of Prague)
Berry Peter (Site Manager)
Bethel Philip (Leverhulme Project Supervisor)
Birkeland Marianna (Illustrator)
Bissinger Linda
Blackburn Phil (Supervisor)
Blakemore Flora
Blandford Matthew
Blowney Steven
Bocchio Silvia (Società Lombarda di Archeologia)
Bolognini Claudia (Società Lombarda di Archeologia)
Bolsover Neville (Manpower Services Commission)
Bond Emma
Bonetti Chiara (Società Lombarda di Archeologia)
Booker Ian
Borley Julian
Boteler Suzanne (MSC Team)
Boukacem Abdelmadjid
Bower Miriam
Brogden Tom
Broome Alison
Brown Patricia
Browne Tim (Manpower Services Commission)
Bruce Graham (University of York: Asst. Supervisor; Supervisor)
Bruce John (Contour survey and site guard May-Sept. 1983)
Bruno Brunella (Asst. Supervisor)
Bullingham James (Manpower Services Commission)
Burson Kent
Butt Reginald
Calvert Sarah (Asst. Supervisor)
Campbell Patricia

Campbell Eadaoin
Campbell Paul
Campion Garry
Camps Phil (Manpower Services Commission)
Canham Emma (University of York)
Caplan Daniel
Carr Mick
Carroll Imelda
Carter Simon (The Scout Association)
Carver Emma
Carver Jay (Asst. Supervisor)
Carver Professor Martin (Director)
Cavill Susan
Challenger Lynne
Champeney Anna

Cheung Antonia
Chizzini Vittoria (Società Lombarda di Archeologia)
Christie Dermot
Clark Kate (School of Archaeological Sciences, University of Bradford: Asst. Supervisor)
Clover Gerard
Coiro Andrea
Coles Ursula
Collins Jackie (Manpower Services Commission)
Collins Mike
Cooke Simon (MSC Team)
Cooper Malcolm (Stafford Polytechnic - computer plotting of contour survey, computer consultant)
Cooper-Reade Hester (Manpower Services Commission)
Copp Andrew (Site guard Sept. 1983 - April 1984; Site Supervisor; surface feature mapping; fieldwalking)
Copping Katrina (Manpower Services Commission)
Cordoba Ricardo
Cromwell Tom
Daniell Chris
Darnborough Sarah
Dauncey Terence
Davis Miriam (University of York)
Degnan Jacqueline
Denison Timothy
Dennis Ian
Dent Paul
Dickinson Emma
Dickinson Fiona
Dilworth Louise
Docherty Phil
Doherty Julie
Donnelly Colm
Dowse Kathryn (Finds Supervisor to Sept. 1988/Environmental Assistant)
Dunnett Alison (Manpower Services Commission)
Dyson Bruce (University of York)
Eassie Angus
Eiland Murray
Erickson Lorraine
Essen Richard
Evans Angela (British Museum; Site Supervisor)
Evans Victoria
Fajerman Deborah
Falkingham Gail
Farrell Denise

Favoro Ago (Environmental Assistant)
Fawcett Fiona
Fenton Penny
Fenwick Helen
Filmer-Sankey William
Finch Ellen
Findlay Moira
Fisher Tony (Manpower Services Commission)
Fitts William
Flint Keely (University of York)
Flitcroft Michael
Forman Edith
Foss Clare
Foster Sally (Supervisor)
Frampton Lizbeth

Frazer William
Frederick Sarah
Gabrielli Cristina
Gallwey Katherine
Garner Andrew (Manpower Services Commission)
Garner-Lahire Justin (Excavator/Recorder; Asst. Supervisor; Supervisor)
Garnett Richard (Manpower Services Commission)
Gascoyne Adrian
Gavardi Elena (Società Lombarda di Archeologia)
Geake Helen (University of York: Asst. Supervisor; Supervisor)
Geisler Karen (Manpower Services Commission)
Gentil Paula
Gibbs Jonathan
Gilks Patrick (The Scout Association)
Glazebrook Jenny (Project Secretary, Project Manager)
Glover Paul
Goode Helen
Gordon-Blacker Rachel (Asst. Supervisor)
Gosling Jane (Asst. Supervisor)
Gould Shane (University of York)
Graham Paul
Graham Karen (Asst. Supervisor)
Graham Karla
Graham-Kerr Cynthia
Granata Achillina (Società Lombarda di Archeologia)
Gray Simon
Green Julia
Greenleaf Joanne
Gregory Tim
Griffiths Nick
Grimshaw Shelagh
Grindley Oliver
Grundy Beth
Hall Andrew
Hall Ben
Hall Paula
Halliday Rosemary
Hammond John (Contour survey and site guard May-Sept. 1983)
Hardie Leigh (University of York)
Harper Julie
Harries Marie
Harrington Simon
Harwood Garo

Hawes Doug (Asst. Supervisor)
Hazelgrove Susanne
Heard Joanne (Manpower Services Commission)
Hedley-Jones Tim
Hembrey Cathy
Henry Anna
Herepath Nicholas
Hickman Walt
Higgins Steven
Holst Malin (Asst. Supervisor)
Hooper Liz (Asst Supervisor; Supervisor)
Hoppa Rob
Houdret Nathalie
Howell Claire
Hummler Madeleine (Excavation Supervisor, Prehistoric Researcher)
Hunt Alex

Hunter Zoe
Hutchinson Gillian (National Maritime Museum; Site Supervisor)
Ingmire James
Jaffa Nina
James Richard
Jerromes Roy (Asst. Supervisor)
Jerromes Faith (Asst. Manager)
Jessica (The Scout Association)
Johnson Nick
Johnson Mark
Johnson Paul
Johnston Barbara
Judith (The Scout Association)
Kan Khunem Paivi
Kathleen (The Scout Association)
Keenan Stephen (MSC: Asst. Supervisor; Supervisor)
Kerr Peter
King Barbara
Kitchingham Gavin
Knight Ricky (University of York)
Knussel Chris
Koch Julia
Kostka Michal (University of Prague)
Lane Patricia (University of York)
Langford Rhonda
Larina Olga
Latania Beryl (Manpower Services Commission)
Law David
Lawrence Judy
Lawson Andrea
Leach Peter (Senior Supervisor)
Lee Lindsay
Lee Sarah
Lee Rebecca
Lee Edmund
Leech Tim (University of York)
Legget Celia (Manpower Services Commission)
Lightfoot Nicholas
Lister Katie (University of York: Asst. Supervisor)
Liu Man-ye (British Museum Conservation Laboratory)
Lloyd Daphne
Locatelli Davide (Società Lombarda di Archeologia)
Lord Caroline (University of York)

Louttit Susan
Lovett Jeremy
Loy Sue
Lockett John
Lockett Sally
Lugo Daphne
Lyons Alice
MacBeth Nigel (photographer)
MacNab Neil
Maekawa Kaname (Toyama University)
Mälarstedt Hilkka
Mälarstedt Susanne
Margerum Barbara (MSC Team)
Marks Sarah
Marsh John
Mauskopf Deborah (Asst. Supervisor)

McCaroll Paula
McCavana Kate (University of York: Asst. Supervisor)
McCullough Paul (Supervisor)
McDonagh Louise
McEwan Elaine (Manpower Services Commission)
Melvin Andrew
Mercksepper Christiane
Meredith Liz
Meroney Brett
Miles Joanne (Leverhulme Research Asst.)
Miller Aaron (Manpower Services Commission)
Mitchell Andrew
Mitlehner Alex
Morgan Edward (Photography)
Morrison James
Mould Catherine (Asst. Supervisor)
Mower James
Mullineaux Elizabeth (University of York)
Nagy Eva
Newey Hazel (British Museum Conservation Laboratory)
Newman Mark (Finds Supervisor)
Newman John (Suffolk Archaeological Unit, Supervisor)
Nicholson Miranda (Manpower Services Commission)
Nilsen Laurel
Noble Brett
Novacek Karel (University of Prague)
O'Regan Carol
Oakey Neil
Odoardi Roberta
Oledska Eva
Olley Robert (Manpower Services Commission)
Pagani Clare (University of York)
Parry Thomas
Peacock Linda (University of York: Finds Supervisor From July 1989)
Pearson Clive
Peloe Catherine
Penny Christopher
Perring Dominic
Perry Victoria
Pestell Timothy (Asst. Supervisor)
Pfisterer Karen
Pick Simon
Pietropaolo Lisa

Pillai Kristina
Pollard Clare
Provost Oliver
Pyrah Carol (University of York: Asst. Supervisor)
Quilter Sam (Manpower Services Commission)
Rahtz Professor Philip
Rankama Tuija
Redshaw Mike
Rees Clare
Regelous Michel
Reid Martin
Richards Dr Julian
Richards Susannah
Richardson Shaun
Richardson Pete
Richmond Jane

Richmond Lizzie
Richmond Pete
Riley Andrew
Robertson Mairi
Robertson Glenn
Robinson Tricia
Robinson Jemma (University of York)
Robinson Carl
Roche Dee Dee
Rodighiero Gianpaolo (Società Lombarda di Archeologia)
Roe Annette (Supervisor)
Rogers Mark (University of York)
Rooley Becky
Roulinson V.
Rousseau Catherine (University of York)
Routh Peter (MSC Team)
Royle Cathy (Site guard Jan.- Apr. 1984; Site Supervisor; metal detector survey; fieldwalking)
Sampson Christian
Sasser Tamatha
Saunders Elizabeth
Savva Eugene
Sawtell Wayne
Schmidt Claudia
Schmidt Doug (Asst. Supervisor)
Scott Sarah (Asst. Supervisor)
Searle Rosalind
Segoby Alinah
Sekitsuka Hidetsugu
Sfreda Nicoletta
Sharp Mick (Photography)
Shearman Fleur (British Museum Conservation Laboratory)
Sheppard Dorothy
Sherwood Fran
Signorelli Luigi (Asst. Supervisor)
Silverstein Jay
Simpson Toby (Asst. Supervisor)
Skea Rhona
Smith Sean
Spandl Klara
Stannard Deborah
Steen Joanne
Stein Charlotte

Stevens Simon (Universty of York: Asst. Supervisor)
Stewardson Anne (Asst. Supervisor)
Stewart Lorraine (BUFAU; Leverhulme Research Asst.)
Stewart Colin
Store Paul
Stringer Katherine
Symons Paul (The Scout Association)
Taha Sonia
Takala Hannu (Asst. Supervisor)
Tanihata Miho
Taylor Tim
Taylor Charlotte (Asst. Supervisor)
Templeman Bart
Tetzlaff Marcus
Till Nick
Timms Stephen (University of York: Asst. Supervisor)
Tkachuk Mark

Todd Louise
Towle Andrew
Travers David
Trewick Ann
Trifonov Victor (USSR Academy of Science)
Trowle Nicholas
Ventura Giuseppina
Wade Matthew (Asst. Supervisor)
Waller Paul
Walters Andrew (IBM - Computer graphics)
Wanner Michal (University of Prague)
Watts Simon (MSC Team)
Watts Lorna
Webb Jonathan
Webster Richard
Webster Andrew
West Anna (Asst. Supervisor)
West Priscilla
Wheildon Kay
Whitmore David
Wijayapala Wijay
Willcock Julia
Williams Carolyn
Williams Rose
Williams Howard
Williams Nigel (British Museum)
Williams Carol
Wilson Richard
Wilson Steven
Wood Janice
Woodward David
Woolf Alex
Wright Andrew (Manpower Services Commission)
Young Richard (Preparation, Data Base Management System)

5.2 Specialists Employed to Produce Reports

Atkinson Helen
(Dept. of Quaternary Research, Stockholm: Sedimentology)

Balaam Nick

(Historic Buildings & Monuments Commission: Environmental research design)

Bethell Phil
(University of Birmingham: Leverhulme Project Supervisor)

Cooper Malcolm
(Data Base Management System)

Ellison Ann
(University of Birmingham: Consultant on Prehistory)

Evans Angela
(British Museum:)

French Dr Charles
(Soil Analysis)

Gorman Mike
(Scott Polar Institute: Magnetometer and Radar Survey)

Hutchinson Gillian
(Contour Survey and Consultant on Maritime Archaeology)

Liu Man-yee
(British Museum)

Martin Edward
(Suffolk Archaeological Unit: Consultant on Prehistory)

Newey Hazel
(British Museum: Replication of `sandmen')

Newman John
(Suffolk Archaeological Unit: Field Survey in SE Suffolk)

Oddy Andrew
(British Museum: Replication of `sandmen')

Rogers Juliet
(Human Bone Analysis)

Rothera Steve
(Essex County Council: Botanical survey)

Scaife Dr Robert
(Botanical Analysis)

Shearman Fleur
(British Museum)

Warner Dr Peter
(Homerton College Cambridge: Study of documentary evidence)

Young Richard
(Data Base Management System)

5.3 Organisations and Academic Institutions or their representatives

Aberg Alan

(National Monuments Record: Loan of Sonic tape; archive advice)

Academy of Sciences, SSR Moldava (Dr V Dergachev)

Baker Lawrence
(Oceanfix International Ltd: Remote sensing)

Balfour Amanda
(BUFAU: artwork)

Bartlett Alister
(HBMC: Fluxgate gradiometry)

Bowman Sheridan
(British Museum Conservation Laboratory)

Brooke Christopher
(Specialist photography)

Brooker-Carey Andrew
(BUFAU: Project management)

Bryant Victoria
(BUFAU: Archive)

Chapman Hugh
(General Secretary: Society of Antiquaries of London)

Conway John
(Royal Agricultural College: Consultant on feature enhancement)

Cooper Malcolm
(Stafford Polytechnic: Contour survey & Plotting programme)

Cottle Penny
(BUFAU: Project management)

Durham Brian
(Oxfordshire Archaeological Unit: Consultant on kite photography)

Edens George
(K & C Mouldings: Silicon Moulds)

Favoro Ago
(BUFAU: Enviromental evidence work)

Fennell Professor Brian
(University of East Anglia: Consultant on sediment history)

Fleming Caroline
(BUFAU: artwork)

Gelling Margaret
(BUFAU: Documentary survey)

Gorman Mike
(Scott Polar Institute: Magnetometer & Radar Survey)

Gowlett John

(Research Laboratory for Archaeology, Oxford: C14 dating)

Gurney David
(Norfolk Archaeological Unit: Phosphate survey)

Hayes Michael
(University of Birmingham: Consultant on soil chemistry)

Hayes Mike
(University of Birmingham: Chemistry of decay)

Hooker Jim
(City College Cambridge: Photogrammetry assistance)

Hooper Elizabeth
(University of Birmingham: Project management; Illustrator)

Hoppitt Cliff
(Aerial photography)

Hoppitt Rosemary
(Woodbridge Museum: Documentary research)

Horsfall Peter
(Oceanfix International Ltd: Remote sensing)

Huggett Jeremy
(Reprogramming database)

Humphries Ann
(Secretarial assistance)

Hutchinson Gillian
(Contour survey & consultant on maritime archaeology)

Ingram David
(BUFAU: Computer plotting of contour survey)

Kelly Mike
(Bradford University: Resistivity)

Liu Man-yee
(British Museum Conservation Laboratory)

MacGrail Sean
(National Maritime Museum: Consultant on maritime archaeology)

Marquette University Milwaukee

Miller Peter
(Consultant on model aircraft photography)

Minks John
(USAF Woodbridge: Helicopter flight)

Morgan Edward
(Photography)

Newey Hazel
(British Museum Conservation Laboratory)

Newman Mark
(BUFAU: prehistoric assessment)

Norrie Graham
(BUFAU: photography & photographic processing)

O'Flaherty Brendan
(University of Southampton: reprogramming database)

Reading College of Technology

Reilly Paul
(IBM: Computer graphics)

Ribbans Brian
(Hot air balloon pilot)

Richards Dr Julian
(University of York: Computer graphics)

Shearman Fleur
(British Museum Conservation Laboratory)

Simkins Peter
(Oceanfix International Ltd: Remote sensing)

Simon Fraser University, British Columbia

Società Lombarda di Archeologica

Soviet Academy of Science, Institute of Archaeology, St Petersburg: (V Masson and Victor Trifonov)

St Hugh's College Oxford

Sutcliffe Ray
(BBC)

Tite Michael
(British Museum: C14 dating; conservation)

Travis Tony
(University of Birmingham: Consultant on presentation and tourism)

Università degli studi di Siena

University of Prague : (Martin Gojda)

University of Bristol

University of Exeter

University of Glasgow

University of Bradford

University of Leicester

University of Cardiff

University of Cambridge

University of Sheffield

University of Bamberg

University of York

University of Liverpool

University College London

University of Pennsylvania

University of Sydney

Walker Roger
(Geoscan Research Ltd: Resistivity)

Walker Jill
(AERE Harwell: C14 dating)

Walters Andrew
(IBM: Computer graphics)

Warmington Ron
(BUFAU: artwork)

Warner Peter
(Homerton College Cambridge: Documentary survey of Sutton parish)

Whimster Rowan
(Cambridge Committee for Aerial Photography: Air photographic cover)

Wilkinson Tony
(University of East Anglia: Sedimentology)

Williams Nigel
(British Museum: consolidation & lifting of grave deposits)

Windmill Ian
(Fairlawn Ltd (Orford): turf stripping)

Woodhall Martin
(Milk Marketing Board: soil chemistry)

Young Rose
(Secretarial Assistance)

Young Richard
(Computer programming)

5.4 Visitors to the Sutton Hoo Site

Abbey School, Woodbridge
Abrams Lesley
Aldeburgh Evergreens Club
Aldeburgh Foundation Hospitality Group
Ancient Monuments Advisory Committee

Anglia Holiday Games Club
Association Vacances Linguistiques

BAFUNCS
Barfield Lawrence
Barritt Edwin (Suffolk County Council)
Bassett Steven
Beccles Society
Bedfield School
Bedford Modern School
Biek Leo
Billings Malcolm (BBC World Service)
Birkbeck College (UCL)
Bowden Rosalind (Cultural Resource Management Ltd.)
Bradley Professor Richard
Brisbane Mark
Britannia County Primary School, Ipswich
British Society for Restorative Dentistry
Brooke Christopher (University of Cambridge)
Brookes Helen (Suffolk Coastal District Council Chairman)
Bruce-Mitford Rupert
Bungay Primary School
Cambridge Extra-Mural Department
Caravan Club
Channel Four News film crew
Cherry John (with staff of British Museum Dept. of Medieval & Later Antiquities)
Citights (London)
City of London Archaeology Society
Clacton School
Clevedon Archaeology Society
Coddenham Village History Club
Colchester 6th Form College
Connelly John
Creed Professor Robert (University of Massachusetts)

Dergachev Valentin (Academy of Sciences, SSR Moldava)
Dumville David
Earl Stoneham WI
Farlingaye High School, Woodbridge
Felixstowe College

Filmer-Sankey William (and the Snape site team)
Flixton WEA Group
Friends of Lincolnshire Archaeology
Friends of Colchester Archaeological Trust

Girl's Brigade
Gresham School, Holt
Guild of Spectaclemakers
Gurney Carol (Barclays Bank)

Hawkes Sonia
Hawkes Christopher
Henley County Primary School, Ipswich
Hills Catherine (University of Cambridge)
Hindle Jerry (Suffolk County Council)
History Department Heads (Annual Meeting)
Hodder Ian (University of Cambridge)

Hodges Richard (British School at Rome)
Holywells High School, Ipswich
Hope-Taylor Brian
HRH The Duke of Edinburgh
Hughes Richard
Hutchinson Gillian
Hydro Fertilisers Pensioners Association

Ipswich Townswomen's Guild
Ipswich Archaeological Trust
Ipswich International Club
James Linda (Cultural Resource Management Ltd.)
Jesus and Mary School, Ipswich

Keele University Extra-Mural Department
Kesgrave High School
Knight John

Lankton Scott Michael
Larsson Professor Lars
London and Middlesex Archaeology Society

Maddison Dr (National Trust)
Manzura Igor (Academy of Sciences, SSR Moldava)
Martin Edward (Suffolk County Council)
Meaney Audrey
Melton Primary School
Mheadhra Uaininn O
Monewden Local History Group
Moreton Hall School, Bury St Edmunds
Morgan Cliff (BBC Radio Bristol)
Morgan-Evans Dai (English Heritage)

Nacton WI
Needham Market WI
Newman John (Suffolk County Council)
Newton Sam
Nosov Evgeny Dr (Russian Academy of Sciences)
Nottingham University Adult Education Unit

Osmanski Tony (Suffolk Coast District Council)
Ovsianikov Dr (Russian Academy of Sciences)

Oxley John

Palgrave Primary School, Diss
Phillips Penelope
Pretty Jennifer

RAF Lakenheath Ladies Group
RAF Mildenhall Ladies Group
Ramblers Association (Mid-Suffolk)
Runyon Professor Timothy

Saunders Andrew (English Heritage)
Scole Committee
Selkirk Andrew (Current Archaeology)
Sidegate Lane Ladies Club
Slater John (BBC History Unit)

Smith Tony (BBC Radio Bristol)
Society of Antiquities of London Fellows
South East Essex Archaeology Society
St James Middle School, Bury St Edmunds
St Felix School, Southwold
St Margarets C of E Primary School, Ipswich
Stradbroke High School
Stratford Neil (British Museum)
Suffolk College Saturday School
Suffolk College Summer School
Sutton Hoo Society
Sutton Hoo Research Committee
Sutton Hoo Research Trust

The English Companions
The Historical Association
The Prehistoric Society
Thistlethwaite Alfreda (Suffolk County Council)
Thomas Mills School, Framlingham

University of Warwick Extra-Mural Department
University of Cambridge Department of Archaeology
USAF Wives Group, Bentwaters
USAF Elementary School, Woodbridge

Wade Keith (Suffolk County Council)
Wainwright Geoffrey (English Heritage)
Walker Philip (English Heritage)
Waterson Merlin (National Trust)
Watson Mike
West Stanley (Suffolk County Council)
Woodbridge School
Woodbridge Cruising Club

Young Farmers Club
Youngs Sue (British Museum)

5.5. Officials with an interest in the Sutton Hoo site

5.5.1 Landowners and Tenants

William Glasse
Sun Alliance Insurance Group
W S Thompson
Mrs Anne Tranmer
Colin Walker
Peter Waring

5.5.2 Sutton Hoo Research Trust Members (Past and Present)

Sir David Attenborough CBE [BM]
Prof C N L Brooke PSA [SoA]
Prof B W Cunliffe CBE FBA VPSA [SoA]
Prof J D Evans PSA [SoA]
Dr I H Longworth FSA [BM]
Dr D W Phillipson TSA [SoA]
Prof P A Rahtz FSA [SoA]
R M Robbins CBE TSA [SoA]
K Wade [Suffolk County Council]
Mrs L Webster FSA [BM]

Dr M G Welch [SoA]
Dr S E West FSA [SoA]
Sir David Wilson FBA FSA [BM]

Non-Members

Prof M O H Carver FSA FSA (Scot) MIFA Director and Company Secretary
John Knight Honorary Solicitor
Martin Burchmore for the auditors Kingston Smith

All members of the Sutton Hoo Research Trust were also members of the Sutton Hoo Research Committee.

Additional Members of the Sutton Hoo Research Committee:

Dr Paul Ashbee FSA
Martin Biddle FBA FSA
Dr S G Bowman
Rupert Bruce-Mitford FBA FSA [consultant]
Dr C M Hills FSA
J G Hurst FBA FSA
Professor H Loyn FBA FSA
Lt Cmdr D Pretty RN
E V Wright MBE FSA

5.5.3 The Sutton Hoo Project Team

Director: Martin O H Carver BSc Dip Archaeol. FSA FSA (Scot) MIFA, University of Birmingham, University of York

Director of Prehistoric Research: Madeleine R Hummler BA DPhil University of York

Manager: Jenny Glazebrook BA MA University of Birmingham, University of York

Photographer: Nigel MacBeth

Supervisor: Andrew J Copp BA MA University of Birmingham, University of York

Supervisor: Cathy L Royle BA MA University of Birmingham, University of York

Supervisor: Justin Garner-Lahire BA University of York, Field Archaeology Specialists Ltd

Supervisor: Annette Roe Societa Lombarda d'Archeologia, Field Archaeology Specialists Ltd

5.5.4 Local Government and Other Officials

Edward Martin -	Suffolk County Council Archaeological Service
John Newman -	Suffolk County Council Archaeological Service
Judith Plouviez -	Suffolk County Council Archaeological Service
Keith Wade -	Suffolk County Council Archaeological Service
Dr Stanley West -	Suffolk County Council Archaeological Service
Dr Geoffrey Wainwright	English Heritage
Dr Phillip Walker	English Heritage

5.5.5 Committee Members of the Sutton Hoo Society (past and present)

HRH The Duke of Edinburgh (Past President)
The Duke of Grafton KG (President)

John Aldridge
Sue Banyard

Robert Beardsley
Peter Berry
J W T Blunt
Donald Brooks
Martin Carver
Count de Lengham
Clare Foss
Larry Gatter
Jenny Glazebrook
Rosemary Hoppitt (Chairman)
John Le Mare
Lord Lewin
Andrew Lovejoy
Elizabeth Miles
Malcolm Miles
Mark Mitchels
Colin Moore
John Newman
Sam Newton
Peter Rooley
Pearl Simper
Robert Simper (Past Chairman)
Mike Weaver

6. SPONSORSHIP

6.1 Grants

Aurelius Trust
Boydell & Brewer Ltd
British Academy
British Broadcasting Corporation
British Museum
East Anglian Daily Times
Gonville & Caius College, Cambridge
Leverhulme Trust
Manpower Services Commission
National Maritime Museum
Norwich Union Insurance Group
Oceanfix International Ltd
Royal Historical Society
Scarfe Trust
Society of Antiquaries of London
St John's College, Cambridge
The Sutton Hoo Society
Trinity College, Cambridge

6.2 *Support in Kind*

Aldous Homes Ltd [portakabin]
Andrews Industrial Equipment [lighting]
Bartington Instruments [fluxgate gradiometer survey]
Boydell and Brewer Ltd [publisher of the Bulletins]
Brian Ribbans [hot air balloon]
F Ingram Smith Ltd [portakabin]
Fairlawn Ltd
Goblin Ltd
Haymills (Contractors) Ltd
Notcutts Nurseries Ltd
Osram-GEC Ltd [hut]

Psion Ltd [hand-held computers]
Ransomes Sims & Jeffries Ltd [Mower]
Sky Photographic Services Ltd
Stowmarket Caravans Ltd [caravan]
Suffolk Coastal District Council
Stephens & Carter Ltd. [tower and scaffolding]
Sun Alliance Insurance Group Ltd [land]
Sutton Hoo Society [numerous gifts of instruments etc, see **Saxon** passim]
US Air Force [aerial photography]
Vinyl Products Ltd [Drum of vinamul]
Woodbridge School

7. STRUCTURE OF THE PROJECT RECORDS

[see also FR 10 Site Procedures]

7.1 Project, Site and Research Files

The Project Records are divided into three “files”

PROJECT FILES (administration)

SITE FILES (field records)

RESEARCH FILES (research notes).

PROJECT FILE (blue binders)

The Project Files exist in hard copy only in the University of York

- XO: Content of the Project Records (A4, DB)
- X1: List and map of interventions (A4, A1, DB)
- X2: Programmes (A4)
- X3: List of Publications drawn from the records (A4, DB)
- X4: Index of contributors (A4,DB)
- X5: Project History (A4)
- X6: Picture History (A4)
- X7: Site Management and Presentation (A4)

SITE FILE (black binders)

The term “Field Records” and Site Files” are used interchangeably. Except for the photographic records (which are duplicated) these exist only in a single hard copy in A4, A1 or photographic format. All the field records are in the care of the British Museum.

- Y0: Indices (A4, DB)
 - Y00: Index to site file
 - Y01: Index of notebooks
 - Y02: Index of contexts
 - Y03: Index of features
 - Y04: Index of structures
 - Y05: Index of drawings
 - Y051: Co-ordinates
 - Y06: Index of photographs
 - Y07: Index of finds
 - Y071: Finds label
 - Y08: Index of reports
- Y1: Notebooks (A4)
- Y2: Context records (A4)
- Y3: Feature records (A4)
 - Y31: Skeletal record
- Y4: Structure records (A4)
- Y5: Site geometry (A1)
 - Y50: Legend
 - Y51: Co-ordinates
 - Y52: Plans

Y53: Maps
Y54: Sections

Y6: Photographs

Y7: Finds (A4, DB)

Y71: Records of provenance of Finds
Y72: Records of study (inventories) of Finds

Y8: Reports (A4)

RESEARCH FILE (red binders)

The Research Files exist in hard copy only at the University of York

Z0: Index to research (A4, DB)
Z1: Site analyses and studies (A4, A1)
Z2: Environment and resources (A4, A1)
Z3: Comparative archaeology (including regional surveys) (A4, A1)
Z4: Site assessment and evaluation (A4, A1)
Z5: Surface monuments (A4, A1)
Z6: Documentary sources (A4, A1)
Z7: Bibliography (A4, DB)
Z8: Methodology (including replication and experiment) (A4, A1)
Z9: Synthesis (A4)

7.2 Structure of Site Files or Field Records

SITE FILES (black binders)

There is a Site File for every Intervention (list)

Y0: Indices (A4)

Y00: Index to site file
Y01: Index of notebooks
Y02: Index of contexts
Y03: Index of features
Y04: Index of structures
Y05: Index of drawings
Y051: Co-ordinates
Y06: Index of photographs
Y07: Index of finds (DBMS)
Y071: Finds label
Y08: Index of reports

Y1: Notebooks (A4)

Y2: Context records (A4)

Y3: Feature records (A4)

Y31: Skeletal record

Y4: Structure records (A4)

Y5: Site geometry (A1)

Y50: Legend
Y51: Co-ordinates
Y52: Plans
Y53: Maps
Y54: Sections

Y6: Photographs

Y7: Finds (A4)

Y71: Records of provenance of Finds

Y72: Records of study (inventories) of Finds

Y8: Reports (A4)

8. INDEX TO RESEARCH NOTES

(The Research Files containing these notes are held in hard copy only at the University of York)

ZO INDEX TO RESEARCH

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Abbreviations

SH	Sutton Hoo
SHA	Sutton Hoo Archive
SHRP	Sutton Hoo Research Project
BM	British Museum
MOHC	Prof. Martin Carver (Director)
UEA	University of East Anglia
SAU	Suffolk Archaeological Unit
BUFAU	Birmingham University Field Archaeology Unit
LTP	Leverhulme Trust Project
IFA	Institute of Field Archaeologists

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z1	SITE ANALYSES AND STUDIES	

Z1.1 (1)	Newspaper article concerning removal of a mound at Sutton Hoo by Barritt. Title: 'Roman mounds or barrows' in Ipswich Journal	24.11.1860 Ipswich Journal
Z1	SITE ANALYSES AND STUDIES	
Z1.2 (1)	Detailed description of finds, Mounds 2,3 and 4 in <u>The Sutton Hoo Ship Burial Vol I</u> pp 1122-125. Bruce-Mitford, R. 1975. BMP	Bruce-Mitford, R. 1975
Z1.2 (2)	Identification of cremated bone fragments from Sutton Hoo (1938) Mounds 3 and 4, in <u>The Sutton Hoo Ship Burial, Vol I</u> pp 135-6. Bruce-Mitford, R. 1975. BMP	Gejvall, N-G. 1975
Z1	SITE ANALYSES AND STUDIES	
Z1.3 (1)	1939 finds (taken from <u>The Sutton Hoo Ship Burial Vol I</u> , Bruce-Mitford, R. 1975. BMP) See also Z1.4 (1 & 2). Sutton Hoo Mound 1 Inventory	Carver, MOH
Z1.3 (2)	Removal in the BM Research Lab of the contents of the fluted silver bowl with classical head and of the Coptic bowl and contained hanging bowl. Lab notes. Taken from <u>The Sutton Hoo Ship Burial Vol I</u> , Bruce-Mitford, R. 1975. BMP pp 222-7	Plenderleith, HJ 1975
Z1.3 (3)	Anatomical Reports. I. Anatomical report on certain material from the Sutton Hoo Ship Burial. II. Report on the one small fragment and 3 derived chips isolated by Prof. Cave as the only osseous items in the submitted material. III. Report on fragments of hair from the Sutton Hoo ship burial. IV. Report on the study of certain bone fragments from the top of the Anastasius dish. All taken from <u>The Sutton Hoo Ship Burial Vol I</u> pp 544-7. Bruce-Mitford, R. 1975. BMP	1975 Cave, AJE Simpson, K Holden, HS Brothwell, DR
Z1.3 (4)	Botanical Reports I. Report on 3 items previously identified as bone II. Report on a fragment of supposed bone from the Sutton Hoo Ship Burial III. Report on one small fragment accepted by Prof. Cave as probably bone. All taken from <u>The Sutton Hoo Ship Burial Vol I</u> pp 548-9. Bruce-Mitford, R. 1975. BMP	1975 Salisbury, E Metcalf, CR Metcalf, CR
Z1.3 (5)	Plan of 1939 trench and dumps with plotted bronze and iron finds. A1 at 1:100. Dyeline copy also. Z1F1	Ashbee, P
Z1.3 (6)	Plan of 1939 trench and dumps with plotted distribution of 'Beaker sherds' etc. A1 at 1:100. Also dyeline copy. Z1F2	Ashbee, P
Z1.3 (7)	Plan of 1939 trench and dumps with plotted distribution of 'barrow sherds'. A1 at 1:100 Also dyeline copy. Z1F3	Ashbee, P

Z1.3 (8)	Plan of 1939 trench and dumps with plotted distribution of 'pre-barrow' sherds. A1 at 1:100 Also dyeline copy. Z1F4	Ashbee, P
Z1.3 (9)	Plan of 1939 trench and dumps with plotted distribution of iron, bone, charcoal, flint, leather. A1 at 1:100 Also dyeline copy. Z1F5	Ashbee, P
Z1.3 (10)	Plan of 1939 trench and dumps with plotted distribution of pottery ? A1 at 1:100 Also dyeline copy. Z1F6	Ashbee, P
Z1.3 (11)	Notes on position of burial chamber with Mound 1 ship burial. Also includes discussion on excavation, recording and replication of ships. Tracing attached.	Evans, AC 1985?
Z1.4	SITE ANALYSES AND STUDIES	
Z1.4 (1)	Sutton Hoo Mound 1 inventory. 1965-67 finds (taken from <u>The Sutton Hoo Ship Burial Vol I</u> . Bruce-Mitford, R. 1975. BMP. See also Z1.3(1) and Z1.4(2)	Carver, MOH
Z1.4 (2)	Sutton Hoo Mound 1 inventory. 1967-71 finds (taken from original finds lists). See also Z1.3(1) and Z1.4(1)	Carver, MOH
Z1	SITE ANALYSES AND STUDIES	
Z1.5 (1)	Finds inventory Sutton Hoo Excavations 1966, 1968-70, taken from <u>Sutton Hoo Excavations 1966, 1968-70 BM Occ. Paper 23</u> , Longworth, IH & Kinnes, IA	Carver, MOH
Z1.5 (2)	Osteological Investigation of Cremated Bones from a Funeral Urn from Sutton Hoo, 1968. Taken from <u>The Sutton Hoo Ship Burial, Vol I</u> , p98. Bruce-Mitford, R. 1975. BMP	Gegvall, N-G, 1975
Z1.5 (3)	Report on a Detached Skull Found at Sutton Hoo, 1969. Taken from <u>The Sutton Hoo Ship Burial, Vol I</u> , p99. Bruce-Mitford, R. 1975. BMP	Brothwell, DR, 1975
Z1.5 (4)	Report on the Scientific Examination of Bone and Compacted Sand from Mound 5. Taken from <u>Sutton Hoo Excavations 1966, 1968-79. BM. Occ. Paper 23</u> p60-62. Longworth, IH & Kinnes, IA	Hughes, MJ
Z1	SITE ANALYSES AND STUDIES	
Z1.6 (1)	Application to AERE Harwell for C14 date on F9, Int 20	Royle, CL. 22.4.1985
Z1.6 (2)	Result of C14 date on F9, Int 20	AERE Harwell, 21.1.1986
Z1.6 (3)	Report on human skeletal material in Int 20, Int 32 [Z1.13 (4)] Int 41 [Z1.15(3)]	Frances Lee Feb 1991
Z1	SITE ANALYSES AND STUDIES	
Z1.8 (1)	Pottery - key sherds, notes on fabric, decoration and possible date	Ellison, A. Sept. 1985

Z1	SITE ANALYSES AND STUDIES	
Z1.13 (1)	Result of C14 date on F109, Int 32	Gowlett, JAJ. Radiocarbon Accelerator Unit, Oxford Univ. 29.4.1986
Z1.13 (2)	Pottery - key sherds. Notes on fabric, type, decoration and possible date	Ellison, A. Sept. 1985 & 8.10.1985
Z1.13 (3)	Skeletal studies. Inventory of bone recovered from grave F102. Filed under Z8.5 (3)	Rogers, J 1985
Z1.13 (4)	Report on human skeletal material in Int 20 [Z1.6(3)], Int 32 [Z1.13(4)] and Int 41 [Z1.15(3)]	Frances Lee Feb. 1991
Z1.13 (5)	F161 'Ploughman' skull: Initial examination	Juliet Rogers or Frances Lee? 1987? 1988? 1989?
Z1.15	SITE ANALYSES AND STUDIES - Int 41	
Z1.15 (1)	Examination of skeletal remains from Sutton Hoo. F148 and F55, Int 41	Rogers, J. 1987
Z1.15 (2)	Letter (report) re animal bones from Sutton Hoo 88, Int 41 (F129/F517)	TP O'Connor 8.2.1990
"	As above (photocopy)	"
Z1.15 (3)	Report on human skeletal material from Int 20 [Z1.6(3)], Int 32 [Z1.13(4)] and Int 41 [Z1.15(3)]	Frances Lee Feb. 1991
Z1.15 (4)	Interim report on the skeletons recorded from Sutton Hoo during the 1990 season	Frances Lee June 1991
Z1.15 (5)	Quarry pits, Mounds 5 and 6 and Mound reconstructions [also filed as Z1.16 (1)]	A Copp 1990
Z1.16	SITE ANALYSES AND STUDIES - Int 44	
Z1.16 (1)	Quarry pits, Mounds 5 and 6 and Mounds 5 and 6 reconstructions [also filed under Z1.15(5)]	A Copp 1990
Z1.17	SITE ANALYSES AND STUDIES - Int 48	
Z1.17 (1)	Note on the 'glass', Int 48 (finds 1056 & 916) and offprint Henderson et al 1987 in JAS 14: 353-65)	Peacock, L (after Dr A Cox, Physics Dept. York) 14.6.1990
Z1.17 (2)	Progress report, Ints 48 and 50 [also filed under Z1.18 (1)]	MRH Dec 1990/March 1991
Z1.17 (3)	Sutton Hoo Int 48: A preliminary assessment of the finds, in particular the prehistoric pottery	MRH March 1991
Z1.18	SITE ANALYSES AND STUDIES - Int 50	

Z1.18 (1)	Progress Report, Ints 48 and 50 [also filed as Z1.17 (2)]	MRH Dec 1990/March 1991
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Z2	ENVIRONMENT AND RESOURCES	
Z2.1 (1)	Map showing the Suffolk Sandlings Region. Filed under Z3.1 (15)	Suffolk Trust / Sandlings Project
Z2.1 (2)	Sutton Hoo context survey: Preliminary proposals for palaeoenvironmental economic studies. See Z2.1 (1)	Murphy, P (UEA) 23.11.1983
Z2.1 (3)	Letter to MOHC concerning grant proposal to NERC to study sedimentation rates in the Deben estuary. Copy of proposal attached.	Funnel, BM 11.1.1984
Z2.1 (4)	The Holocene Sequence of the Deben Estuary: A preliminary assessment of its potential for the study of the Sutton Hoo ship burials	Wilkinson, TJ & Murphy, P 1984
Z2.1 (5)	Environmental policy (sampling for finds, plant macrofossils, pollen, micromorphology). Data acquisition strategy - Sector 2	Carver, MOH 1.7.1987
Z2.1 (6)	Sutton Hoo Project. Archaeological Science Applications	Ballam, ND. 1987
Z2.1 (7)	Micromorphology and Magnetic Susceptibility studies: their combined role in interpreting archaeological soils and sediments. Offprint. Also letter from Macphail to Kathryn Dowse re how to take Kubiena box samples at Sutton Hoo.	Allen, MJ & Macphail, RI, 1987 10.12.1987
Z2.1 (8)	Laboratory work on monolith samples: note & annotated figs, Int 41 & covering note by K Dowse.	H Atkinson & notes by K Dowse: undated, poss. 1988
Z2.1 (9)	List of context & features, Int 41, listing samples and purpose for which they were taken, whether left or discarded	MOHC, undated, poss. 1988
Z2.1 (10)	Ms note on meeting with MOHC on subsampling and plot sampling Mound 2, Int 41	13.4.1988 K Dowse
Z2.1 (11)	Environmental Archaeol. Strategy 1988 prog sent to H Atkinson	MOHC & A Copp & C Royle (?) 1988
Z2.1 (12)	Revised programme, August 1988, sent to H Atkinson	MOHC (?) 1988
Z2.1 (13)	Micromorphology programme, October 1988 sent to C French	MOHC (?) 1988
Z2.1 (14)	Letter concerning pollen analyses, soil in micromorphology, stomach content samples; preliminary research proposals.	R Scaife 29.8.1989

Z2.1 (15)	Environmental strategy as at 10.7.1990 (ms notes on visit by C French & R Scaife)	MOHC 10.7.1990
Z2.1 (16)	Programme of scientific analyses already commissioned or to be commissioned as at April 1991. With Appendix: inventory of soil columns sent for processing to April 1991, all int.	MOHC April 1991
Z2.1 (17)	Programme of scientific analyses already commissioned or to be commissioned as at September 1991. With Appendices 1-3: list of early medieval finds to be examined in BM laboratory.	MOHC Sept. 1991
Z2	ENVIRONMENT AND RESOURCES	
Z2.2 (1)	Report on cores taken near River Deben by Inst. of Quaternary Geology, University of Stockholm	Atkinson, H 1985
Z2.2 (2)	Environmental work, April 1985. Report on work carried out by H Atkinson, Inst. of Quaternary Geology, University of Stockholm.	Royle, CL April 1985
Z2.2 (3)	1939 geological report. Taken from <u>The Sutton Hoo Ship Burial Vol I</u> p 97. Bruce-Mitford, R. 1975, BMP. Also appears in <u>Antiq. Journ. XX</u> (1940) p149-202	Zeuner, FE 1975
Z2.2 (4)	Reports on the 'Flower' Material.I: Brief report on a fragment found in the burial chamber. II: Report and pollen analysis on a fragment found in the burial chamber. Taken from <u>The Sutton Hoo Ship Burial Vol I</u> p 487. Bruce-Mitford, R. 1975. BMP	Cutler, DF & Dimbleby, GW 1975
Z2.2 (5)	Rough pollen diagram for 1939 soil and Longworth's pit. A3. Z161	Dimbleby, GW
Z2.2 (6)	Rough pollen diagram of soil under barrow. Z162	Dimbleby, GW
Z2.2 (7)	Rough pollen diagram of 1939 soil, Longworth's pit, and soil under barrow. Z163	Dimbleby, GW
Z2.2 (8)	Rough pollen diagram of 'Longworth's pit'. A3. Z164	Dimbleby, GW
Z2.2 (9)	Surface feature survey/vegetation mapping of Zone A, Sutton Hoo. See site file for Int. 18	Copp, AJ 1984
Z2.2 (10)	List of species found growing at Sutton Hoo 5-12 June 1984	Rothera, SL 1984
Z2.2 (11)	Vegetation survey of Sutton Hoo conducted by SL Rothera, 5-12 June 1984	Rothera, SL 1984
Z2.2 (12)	A preliminary report on the vegetation of Sutton Hoo	Rothera, SL 1984
Z2.2 (13)	The micromorphological analysis of the buried soils, mound make-up and ancillary features associated with Mounds 2 and 5, Sutton Hoo, Interim Report 1. (With covering letter & 1 sheet of contact prints + 1 sheet of negatives).	CAI French 25.3.1990
Z2.2 (14)	Comments by MOH Carver & response by A Copp on above report [Z2.2 (13)] ms	Carver/Copp 1990
Z2.2 (15)	Pollen diagram of pre-barrow soil (1966) and accompanying letter/report to P Ashbee (1968) [also listed as X5.17 (21)]	Dimbleby

Z2.2 (16)	Copy of report 'Sutton Hoo - The Environment' - sent to P Ashbee with letter (also listed as X39.13)	Dimbleby, GW 1970
Z2.2 (17)	letter from RLS Bruce-Mitford to Dimbleby concerning environmental report & photocopy of Dimbleby's report - 'Sutton Hoo - the Environment': differs from Z2.2 (16) also listed as X5.39 (7).	Dimbleby, GW 1970
Z2.2 (18)	The micromorphological analysis of the valley section profile (Int 53): Interim report no.3	CAI French June 1992
Z2.2 (19)	The micromorphological analysis of red pit in Int 48	CAI French June 1992
Z2.2 (20)	Palynological analysis of the valley colluvial profile, Int 53	R Scaife Oct 1992

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Z3	COMPARATIVE ARCHAEOLOGY	
Z3.1 (1)	Early medieval settlement in Suffolk, showing the 'Sandling Province'. A4 figure, from OS map	Hooper/Carver 1985
Z3.1 (2)	The origin and development of the Kingdom of East Anglia project	Newman, J & Wade, K (SAU) April 1984
Z3.1 (3)	Letter to MOHC concerning fieldwalking results from around SH site. Plans of areas fieldwalked. Locations and descriptions of finds	Newman, J 20.6.1985
Z3.1 (4)	Letter to J Newman acknowledging receipt of Z3.1 (3)	Carver, MOH 28.6.1985
Z3.1 (5)	SAU: Finds identification record. Details of metal detector finds, incl. drawings. Parish of Bromeswell	Damant, R & Blow, J 1986/?
Z3.1 (6)	Letter to MOHC giving details of aerial photos taken near SH	Whimpster, R (Dr) 3.10.1983
Z3.1 (7)	Newspaper article: discovery of Viking rudder	Evening Star 14.2.1986
Z3.1 (8)	Viking rudder: location maps	Hutchinson, G? 1986
Z3.1 (9)	Topography of the archaeological area at Sutton Hoo. A4 figure	Birkeland/ Hooper 1985
Z3.1 (10)	Bawdsey Field Survey Unit: Statement of Methods & Objectives	Burrows J & Ellis R
Z3.1 (11)	Letter to MOHC, aerial photos and AP plots of fields around Sutton Hoo. Results repeated a overlays. RCHM Air Photographs Unit	Whimster, R 2.7.1986
Z3.1 (12)	Taplow Report. 2nd draft	Bucks. County Museum 1987
Z3.1 (13)	The Sutton Hoo Region: A Survey of the Aerial Photographic Record. MA dissertation	Bryant, V 1.10.1984

Z3.1 (14)	Areas for regional survey (provisional) (Project design). A4 figure	Wade, K
Z3.1 (15)	Map showing the Suffolk Sandlings Region	Suffolk Trust/ Sandlings Project
Z3.1 (16)	List and location map of vertical surveys by CUCAP in 1987. Also letter from D R Wilson	CUCAP April 1988
Z3.1 (17)	The physical geography of the Deben estuary at the time of the ship burial (for Sutton Hoo [RLS Bruce-Mitford] Chap.1, Sect.4). Photocopy of report. [Also listed as X5.39(13)]	Cyril Ferand
Z3.1 (18)	6 maps (copies of OS 1:2500) of field 116/7 showing distribution of: worked flint red & beaker sherds 1A sherds RB sherds AS sherds Med sherds in fields below Top Hat Wood and above Apricot Hill plantation	J Newman ?
Z3.1 (19)	Letter to MOHC showing relationship between AS/1A pot scatter and ringditch on AP + map showing loc. of pot scatter + map showing loc of AP ringditch + pottery report (Ed. Martin)	J Newman 29.1.1989
Z3.1 (20)	Reply to J Newman re Z3.1 (19) & letter to C Royle re action to be taken	MOHC 28.2.1989
Z3.1 (21)	Flatlands & wetlands, current themes in East Anglian Archaeology Conference (Sept. 1989). Programme, abstracts, ms notes by MRH	J Gardiner 15- 17 Sept. 1989
Z3.1 (22)	The xxxx Moor Project: 4th Report - Environment, Context and Conclusion <u>PPS</u> 48, 1982: 203-78 & ms notes by MRH	N Balaam, K Smith, GJ Wainwright 1982
Z3.1 (23)	The prehistoric landscape of Dartmoor, Part 2: North and East Dartmoor. <u>pps</u> 48, 1982: 203-78 & ms notes by MRH	N Balaam, K Smith, GJ Wainwright 1982
Z3.1 (24)	Letter to C Royle from T Williamson re AP cropmarks at Sutton Hoo & draft letter by C Royle to Williamson and Fleming	Williamson, Royle, Fleming Dec. 1987
Z3.1 (25)	Ms note relating to finds in area of Sutton Hoo, believed to have been amongst Ashbee papers	1960's account?
Z3.2	COMPARATIVE ARCHAEOLOGY - EXCAVATIONS	
Z3.2 (1)	Springfield Lyons Excavations - General background	March 1984
Z3.2 (2)	Archaeological Excavations, Great Bealings, Brandon	1986
Z3.2 (3)	The Bronze Age and Saxon Settlements at Springfield Lyons, Essex. Essex CC Occ Paper No. 5	G Buckley, J Hedges 1987

Z3.2 (4)	Essex CC Arch. section report to Scole Committee, Dec. 1990 (reports on Boreham, Cressing Temple, Dovercourt, Enfield Lock, Gt. Tatham, Maldon, Roydon, Saffron Walden, Southweald, Springfield Lyons, Stanstead , Waltham Abbey & survey projects)	Essex CC 1966
Z3.2 (5)	The Anglo-Saxon Cemetery at Spong Hill, North Elmham. Part VI: Occupation during the 7th - 9th millennia BC. Copy of computer printout	Healy, F
Z3.2 (6)	Suffolk Arch. Unit Annual Report to Scole Committee reporting on excavations at Flixton, Foxhall, Wherstead, Babwell Friary, Leiston Abbey, Santon Downham, Freckenham, Boxford, Bury-St-Edmunds and Ipswich	SAU 11.12.1990
Z3.2 (7)	ALBA enclosure at Lofts Farm, Essex. <u>pps 54</u> , 1988: 249-302	N Brown 1988
Z3.2 (8)	The excavation of prehistoric and RB settlements at Eaton Heath, Norwich. <u>Arch.J.</u> 130: 1-43 (1973)	GJ Wainwright 1973
Z3.2 (9)	The excavation of a neol. settlement on Broome Heath, Ditchingham, Norfolk. <u>pps 38</u> (1972): 1-97	GJ Wainwright 1972
Z3.2 (10)	Excavations at the neol. site at Hurst Fen, Mildenhall, Suffolk. <u>pps 11</u> (1960): 202-45	JGD Clark 1960
Z3.2 (11)	The Wrekin hillfort excavations 1973. <u>Arch. J.</u> 141 (1984:61-90)	SC Stanford Arch.J. 1984
Z3.2 (12)	Flag Fen, Fengate, Peterborough: Discovery, Reconnaissance & Initial excavation 1982-5. <u>pps 52</u> , 1986:1-24	Pryor, French & Taylor 1986
Z3.3	COMPARATIVE ARCHAEOLOGY & ARTEFACTS	
Z3.3 (1)	A Bronze Age Urnfield on Vincens Farm, Ardleigh, Essex. <u>pps 9</u> (1960). Pottery pp 178-92	Erith, FH & Longworth, IH 1960
Z3.3 (2)	The Bronze Age Cemetery at Ardleigh, Essex: A Further Consideration, <u>Essex Archaeology & History</u> Vol 7 1975. Pottery pp 14-31	Couchman, CR 1975
Z3.3 (3)	Pottery of the Early & Middle Bronze Age in Suffolk. <u>Proc. Suffolk Inst. Archaeol.</u> 29(2). p175-97 and 29(3) An additional note p353-6. 1962	Smedley, N & Owles, E 1962
Z3.3 (4)	Finds recorded from barrows in the barrows of East Anglia. <u>EAA</u> 12 p39-41, 69-71, 74=75, 96-99	
Z3.3 (5)	Early pre-Roman Iron Age Communities in Eastern England. <u>Ant. Jornal</u> 48 (1968) p.175-191. Darmsden pottery	Cunliffe, B 1968
Z3.3 (6)	<u>Neolithic & Bronze Age Antiquities: Devizes Museum.</u> Illustrations p83-4, 117, 125-8	
Z3.3 (7)	Neolithic & Bronze Age Pottery. Ch II in <u>Grimes Graves, Norfolk: Excavations 1971-72 Vol I</u> (DoE Archaeol. Reps II) HMSO London p39-59	Longworth IH 1981 (ed. Mercer, RJ)
Z3.3 (8)	Pottery in Excavations at the Neolithic Site at Hurst Fen, Mildenhall, Suffolk (1954, 1957, 1958) <u>pps 1960</u>	Clark, JGD 1960

Z3.3 (9)	Illustrated catalogue of Sussex Beaker and Bronze Age Pottery. <u>Sussex Arch. Coll.</u> 92 (1954) p106-124	Musson, RC 1954
Z3.3 (10)	Food vessels: associations and chronology. <u>Studies in Ancient Europe</u>	Simpson, DDA
Z3.3 (11)	<u>Guide catalogue of the Bronze Age collections.</u> Nat. Museum of Wales, Cardiff. Pottery	Savory, HN 1980
Z3.3 (12)	Letter mentioning Beaker pottery and AS cremation at Brightwell Heath, addressed to P Ashbee	E. Owles 1965
Z3.3 (13)	Photocopy of a list of coins - Anglo-Saxon & continental - from Barham, Suffolk	?
Z3.3 (14)	Giant Beaker and rusticated ware from Lakenheath, Suffolk. <u>Proc. Camb. Ant. Soc.</u> 53 (1960): 1-7	G Briscoe 1960
Z3.3 (15)	Iron Age fort at Ball Cross, Bakewell, Appendix A: pottery	?
Z3.3 (16)	Excavation at Wilington, Derbyshire, 1970-2, Neol. and BA pottery. <u>Derbyshire Arch. J</u>	TG Mauby
Z3.3 (17)	The pottery of the later BA in lowland England <u>pps</u> 46, 1980: 297-319	JC Barrett 1980
Z3.3 (18)	Pottery & socio-economic change in British pre-history	A Ellison 1981?
Z3.3 (19)	Excavation of the hill fort of Mam Tor, Derbyshire, 1965-69: Finds <u>Derbyshire Arch. J.</u>	1976?
Z3.3 (20)	Ceramic exchange in western Britain: a preliminary view	EL Morris (1981?)
Z3.3 (21)	Fisherwick - Part II: the finds BAR	
Z3.3 (22)	Ms notes on pottery (Beeston?)	C Royle ?
Z3.3 (23)	A further neol. pit on Bunker's Hill, Witton, Norfolk. <u>Norfolk Archaeol.</u> 39(3): 315-9	Wymer, JJ 1986
Z3.4	COMPARATIVE ARCHAEOLOGY	
Z3.4 (1)	A preliminary geophysical survey of an Anglo-Saxon cemetery at Snape, Suffolk. Univ. of Bradford Occ. P3	Dockrill, S & Edwards, GM 1982
Z3.4 (2)	Snape Survey, Second report of progress	Filmer-Sankey, W. 1987
Z3.4 (3)	Snape Anglo-Saxon cemetery. <u>Suffolk Institute Newsletter</u> , Spring 1987 p10	Filmer-Sankey, W. 1987
Z3.4 (4)	The Snape Anglo-Saxon cemetery. A first interim report on the 1986 excavation. 1-26 Sept. 1986	Filmer-Sankey, W. 1986
Z3.5	COMPARATIVE ARCHAEOLOGY	
Z3.5 (1)	Parts of a timber ship. (Project Design, A4 figure figure)	Hutchinson / Hooper 1985
Z3.6	COMPARATIVE ARCHAEOLOGY - ENVIRONMENTAL STUDIES	

Z3.6 (1)	Archaeol. survey of an intertidal zone: the submerged landscape of the Essex coast, England. <u>Journal of Field Archaeol.</u> 13, No.2, summer 1986 (Boston)	T Wilkinson & P Murphy 1986
Z3.6 (2)	<u>The Hullbridge Basin Survey. Interim report no. 1</u> (Essex County Council)	P Murphy & T Wilkinson. June 1982
Z3.6 (3)	<u>The Hullbridge Basin Survey, Interim report no. 2</u> (Essex County Council)	P Murphy
Z3.6 (4)	<u>The Hullbridge Basin Survey, Interim report no. 4</u> (Essex County Council)	T Wilkinson, P Murphy, TJP Austin April - June 1983
Z3.6 (5)	<u>The micromorphological analysis of the later neolithic buried soil at Eynesbury, St Neots (Cambs)</u>	CAI French date?
Z3.6 (6)	<u>An analysis of the soil samples from a round barrow at Bawsey, Norfolk</u>	CAI French 1985

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z4	SITE ASSESSMENT AND EVALUATION	
Z4.1 (1)	Evaluation of prehistoric site at SH (SH Research Design)	Ellison, A 1985
Z4.1 (2)	Letter to MOHC concerning possible marling at SH	Ashbee, P 17.10.1985
Z4.1 (3)	Letter to A Copp concerning possibility of earlier field walking by P Ashbee and GW Dimpleby	Ashbee, P 8.3.1986
Z4.1 (4)	Pre-Saxon settlement at Sutton Hoo: an assessment of the evidence. MA dissertation	Newman, M 1.10.1984
Z4.1 (5)	Letter to MOHC concerning use of tanks at SH in World War II (possible damage to barrows). Filed under Z8.4(1)	Wright. EV 10.2.1983
Z4.1 (6)	Evaluation of prehistoric sites at SH (Project design) A4 figure	Hooper, E 1985
Z4.1 (7)	Strata depth and root disturbance. (Project design). A4 figure	Hooper, E 1985
Z4.1 (8)	Letter to P Ashbee mentioning find of clench nail at Sutton Hoo in exc. for golf course [also listed as X5.17(11)]	? 1967
Z4.1 (9)	Annotated dyeline map of 'Sutton Mounts', Sutton Hoo, labelled 'Bronze Age occupation', showing location of pottery sherds & faience bead. Zone A.	Ashbee 1964?
Z4.1 (10)	The Sutton Hoo Burial Ship. Gresham's School project 577/55 by Airlie Carver (c. 16 years old!) (also letter by MOHC & addresses of family connection: Mrs Anne Carver (niece of Mrs Pretty, cousin of MOHC; Robin Carver, cousin of MOHC, father of Airlie Carver)	Airlie Carver 1982?
Z4.1 (11)	Sutton Hoo - provenance of finds from Mound 1 burial chamber (map of Europe showing prov. of objects, key to map, summary of finds, provenance of 7thC hoards, plan of Mound 1 burial chamber with list of finds).	MOHC c.1984?

Z4.2	SITE ASSESSMENT AND EVALUATION - REMOTE SENSING	
Z4.2 (1)	Seismic images. The GECO Journal Nov. 1985. Includes article on Soil Sounding radar results from Sutton Hoo	Gorman, M Nov. 1985
Z4.2 (2)	Letter to MOHC regarding results of remote sensing work (photographic) at SH	Brooke, CJ 11.8.1984
Z4.2 (3)	Letter to MOHC regarding further results of remote sensing imagery at SH. Reply from CL Royle attached.	Brooke, CJ 27.11.1985
Z4.2 (4)	Letter to MOHC regarding results of Hasernometry survey at SH	Lovegrove, P 21.5.1984
Z4.2 (5)	Notes after visit of H and P Lovegrove concerning their Hasernometry survey. Method, results and Assessment	Carver, MOH 15.5.1984
Z4.2 (6)	Trigonometry used to calculate positions of features located by Hasernometry survey	Royle, CL May 1984
Z4.2 (7)	Letter to Francis Pryor concerning failure of Hasernometry at SH	Carver, MOH 7.2.1985
Z4.2 (8)	Site Surveys. A report written for Sutton Hoo Bulletin No. 3	Royle, CL 1985
Z4.2 (9)	Seven methods of prospecting: a comparative study. Paper given to Bradford Conference on Geophysical Surveying in Archaeology	Royle, CL Jan. 1986
Z4.2 (10)	Report on trial fluxgate magnetometer survey and soil susceptibility tests. See site file for Intervention 35	Bartlett, A 1984
Z4.2 (11)	Table showing evaluation methods used at SH. Equipment, accuracy, location, area covered	Royle, CL 1985
Z4.2 (12)	Remote sensing in Zones A and B. 1984/5 (Bulletin No. 3). A4 figure	Royle, CL 1985
Z4.2 (13)	Remote sensing in Zones D and F. 1984/5 (Bulletin No. 3). A4 figure.	Royle, CL 1985
Z4.2 (14)	Four radar transects across Mound 2. Shaded plots.	Gorman, M. 1985
Z4.2 (15)	Phosphate survey results, Zone F.	Gurney, D 24.10.1985
Z4.2 (16)	Phosphate survey on Int 32. Readings overlaid on excavation plan. A4 figure.	Royle, CL 1985
Z4.2 (17)	Proton magnetometry results on Mound 2. A4 permatrace figure.	Gorman, M 1985
Z4.2 (18)	Proton magnetometry results on Int 25. A4 permatrace figure.	Gorman, M 1985
Z4.2 (19)	Proton magnetometry results on Int 32. A4 figure. Contour plot.	Gorman/Royle 1985
Z4.2 (20)	Fluxgate magnetometry results on Int 32. A4 figure	Bartlett/Royle 1985
Z4.2 (21)	Resistivity results on Int 32. A4 figure.	Walker/Royle 1985

Z4.2 (22)	Radar results across Mound 12. A4 figure	Gorman/Copp 1985
Z4.2 (23)	Proton magnetometry results on Int 32 with interpretive diagram. A3 figure	Royle, CL 1985
Z4.2 (24)	Proposals for remote sensing at SH. A4 figure	Copp, AJ 1985
Z4.2 (25)	Proton magnetometry results on Int 32. 3-D plot. A4 figure.	Gorman, M 1985
Z4.2 (26)	Proton magnetometry results on Int 32. Grey plot. A4 figure	Gorman, M 1985
Z4.2 (27)	Metal detector survey results, Zone A. A4 figure	Royle, CL 1985
Z4.2 (28)	Surface feature survey, Zone A. A4 figure.	Royle, CL 1985
Z4.2 (29)	Surface feature survey/vegetation survey. Results and reports. See site file for Int 18	Copp,, AJ & Rothera, SL 1984
Z4.2 (30)	Metal detector survey, Zones A,D,F. See site file for Int 27	Royle, CL 1983-84
Z4.2 (31)	Magnetometer survey, Zones A,F. See site file for Int 28	Gorman, M 1984
Z4.2 (32)	Radar survey, Zones A and F. See site file for Int 29	Gorman, M
Z4.2 (33)	Contour survey, Zone A. See site file for Int 30	Bruce, Ingram & Cooper 1983-84
Z4.2 (34)	Contour survey, Zone A. See site file for Int 33	Hipkin 1966
Z4.2 (35)	Contour survey, Zone A. See site file for Int 34	Hipkin, 1980
Z4.2 (36)	Fluxgate survey, Zone F. See site file for Int 35	Bartlett, A 1984
Z4.2 (37)	Resistivity survey, Zone F. See site file for Int 36	Walker, R 1985
Z4.2 (38)	Phosphate survey, Zones D and F. See site file for Int 37	Gurney, D 1985
Z4.2 (39)	Magnetic susceptibility, Zones A,D,F. See site file for Int. 45	Royle, CL 19888
Z4.2 (40)	Radar survey, Zone A, Mounds 6 and 7. See site file for Int 46	Oceanfix 1988
Z4.2 (41)	Resistivity survey, Zones D and F. See site file for Int 47	York Univ. 1988
Z4.2 (42)	Fieldwalking survey, Zones D and F. See site file for Int 19	Copp, AJ & Royle, CL 1983-84
Z4.2 (43)	A resistivity survey at Sutton Hoo. Geoscan research report. See site file for Int 36	Walker, R. June 1985
Z4.2 (44)	A resistivity survey at the Anglo-Saxon barrow cemetery of Sutton Hoo, Suffolk. Geoscan Research report. See site file for Int 36	Walker, R June 1985

Z4.2 (45)	Sutton Hoo; Phosphate survey 1985. Report. See site file for INT 37	Gurney, D 1985
Z4.2 (46)	Reprot on SIR survey on archaeological site at Sutton Hoo. Oceanfix International Ltd. See site file for Int 46	Baker, L 1988
Z4.2 (47)	Resistivity survey of the eastern and southern perimeters of the scheduled area.	Clark, K 1989
Z4.2 (48)	Magnetic susceptibility survey of the eastern perimeter of the scheduled area (Zone F)	Clark, K 1989
Z4.2 (49)	Magnetic susceptibility survey on the southern and western perimeters of Int 44	Clark, K 1989
Z4.2 (50)	Resistivity survey conducted by York Survey and Research, Sector 1 (= Int 51). Also in site file for Int 51	Dunk, J & Lawton, I - March 1990
Z4.2 (51)	Letter and summary: a brief electrometer survey of Sutton Hoo on Sept. 2-3 1988	A Hopwood
Z4.2 (52)	Letter and plan relating to mag. sus. survey of Zone F [see Z4.2(48) too]	A Clark 11.8.1988
Z4.2 (53)	Letter concerning downloading of resistivity data into Vax computer, York (= Int 47, Zones D and F)	P Docherty 1988?

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z5	SURFACE MONUMENTS	
Z5.1 (1)	Contour survey, Zone A. See site firl for Int 30	Bruce, Ingram & Cooper 1983-84
Z5.1 (2)	Contour survey, Zone A. See site file for Int 33	Hipkin 1966
Z5.1 (3)	Contour survey, Zone A. see site file for Int 34	Hipkin, 1980
Z5.1 (4)	Surfer contour plot of Mounds 6 and 7 & accompanying letter to C Royle. Filed under Z8.7(3) (Computer Applications). Int 30	Richards, J 1987
Z5.1 (5)	Annotated original dyeline map of 'Sutton Mounds', Sutton Hoo, showing possible additional mounds (14,15,16,17,18, 19 & others) and parallel med banks. Zone A & photocopy showing correlation of mound numbers (MRH). Also listed under X5.22(36)	Ashbee 1964?
Z5	SURFACE MONUMENTS	
Z5.2 (1)	Sutton Hoo: estimated height of Mounds	Royle, CL
Z5.2 (2)	Surface feature survey/vegetation survey. Results and reports. See Z2.2(10),(11),(12)	Copp, AJ & Rothera, SL 1984

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z6	DOCUMENTARY SOURCES	

Z6.1 (1)	Sutton Hoo research project. Documentary sources. Interim report April 1984.	Warner, P April 1984
Z6.1 (2)	History of the County of Suffolk during Anglo-Saxon times. Two specimen pages concerning King Aethelbeorht, and Brandeston	Morley, C
Z6	DOCUMENTARY SOURCES	
Z6.2 (1)	Place-name material in Sutton and adjacent parishes	Gelling, M 9.12.1985
Z6	DOCUMENTARY SOURCES / MAPS	
Z6.3 (1)	Bromeswell. Catalogue of fieldnames. For corresponding maps see Z6.3(2-6) in same folder	Warner, P
Z6.3 (2)	Bromeswell - map. John Norden's survey of 1600-01. Scale 1:10,000. Copy	Warner, P
Z6.3 (3)	Bromeswell - map. Tithe map 1843. Scale 1:10,000. Copy	Warner, P
Z6.3 (4)	Bromeswell - map. Tithe map 1843 with land ownership marked. Scale 1:10,000. Copy	Warner, P
Z6.3 (5)	Sutton parish in the early 17th century. Based on surveys by John Norden (1600-01) and William Haiward (1629-31). Scale 1:10,000. Copy	Warner, P
Z6.3 (6)	Sutton tithe map 1844. Scale 1:10,000. Copy	Warner, P
Z6.3 (7)	Footpath map of hollesley with Sutton Heath. Not to scale	George, W 1981
Z6.3 (8)	Letter to MOHC, commenting on P Warner's report [Z6.1(1)]. Concerns map evidence. Two rough sketches attached. Shottisham, Halston	Scarfe, N 1.8.1984
Z6.3 (9)	Portion of OS map (scale 1:1,000) showing state of public footpaths around SH	1980
Z6.3 (10)	Little Haddon Hall. Details of sale in 1943. Contains map showing map SH and area to south	30.11.1943
Z6.3 (11)	Sheet describing Wood Hall, Sutton	
Z6.3 (12)	Photograph & copy of map showing tumuli at Sutton Walks held at Univ. of East Anglia and formerly in Ashbee archive [also listed as X5.39 (9)]	
Z6	DOCUMENTARY SOURCES	
Z6.4 (1)	The Royal House of East Anglia and its Scions. (An annotated genealogy)	Newton, Sam 1987
Z6.4 (2)	Ms copy of entry 646 in Anglo-Saxon Chronicle MSX referring to Sutton Hoo burial	-

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z7	BIBLIOGRAPHY	
Z7.1	BIBLIOGRAPHY - PREHISTORIC	
Z7.1 (1)	Comparative bibliography: prehistoric (computer printout)	MRH 1989

Z7.1 (2)	Biblio. references (prehistoric): ms notes	MRH 1989
Z7.2	BIBLIOGRAPHY - EARLY MEDIEVAL	
Z7.2 (1)	ms note: a ref. to Cramp in Driscoll & Nicke(?)	MOHC
Z7.3	BIBLIOGRAPHY -METHODOLOGICAL	
Z7.3 (1)	Siena course on evaluation and strategy - the case of Sutton Hoo. Course outline and biblio. (1 laserprint, 1 dotprint with additional refs.)	MOHC 1990

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z8	METHODOLOGY - RECORDING METHODS	
Z8.1 (1)	Guide to information recovery levels. BUFAU guide 4. Superseded by Z8.1(84)	BUFAU
Z8.1 (2)	Sutton Hoo recovery levels (provisional). Superseded by Z8.1(84)	Carver, MOH
Z8.1 (3)	Sutton Hoo recording system (version 2). Largely replaced by Z8.1(54)	Carver, MOH 26.3.1985
Z8.1 (4)	Guide to the on-site recording system. Some entries superseded	Copp, AJ 1986
Z8.1 (5)	List of keywords for finds index file. Superseded by Z8.1(55) in 1990	Copp, AJ 26.3.1985
Z8.1 (6)	Ceramic inventory form instructions (includes pattern book). Superseded by Z8.1(56) in 1990	Ellison, A April 1985
Z8.1 (7)	Flint inventory form instructions (includes pattern book). Current.	Copp, AJ 1985
Z8.1 (8)	Critique of the recording system of the graves in SHXX and SHXXXII	Jaffa, N Jan 1986
Z8.1 (9)	Context definition. Notes. BUFAU guide 6	BUFAU
Z8.1 (10)	Context record. pre-1986 - with notes as to suggested alterations	Copp, AJ 1986
Z8.1 (11)	Notes. Criticism of context & feature records	Copp, AJ 1986
Z8.1 (12)	Context card recording notes with criticisms of previous recording	Copp, AJ 1986
Z8.1 (13)	Suggestions for components field on a context card	Copp, AJ 1986
Z8.1 (14)	Suggestions for new context card	Copp, AJ 1986
Z8.1 (15)	Context card, showing how many spaces available on computer for each field	Copp, AJ 1986
Z8.1 (16)	Context card. Suggested layout for new context card	Copp, AJ 1986
Z8.1 (17)	The feature record. Notes. BUFAU guide 7	BUFAU

Z8.1 (18)	Feature card, showing how many spaces available on computer for each field	Copp, AJ 1986
Z8.1 (19)	Feature card, with criticisms	Copp, AJ 1986
Z8.1 (20)	Feature card. Suggested layout for new feature card	Copp, AJ 1986
Z8.1 (21)	Feature card recording notes with criticisms of previous recording	Copp, AJ 1986
Z8.1 (22)	Photographic record sheet - obsolete version	
Z8.1 (23)	Photographic record sheet. Not used after Int 32 (replaces Z8.1(22))	
Z8.1 (24)	Feature records, Int 32. List of descriptions (with F nos.) for the field 'function'	Copp, AJ 1986
Z8.1 (25)	Feature records, Int 32. List of descriptions (with F nos.) for the field 'identified'	Copp, AJ 1986
Z8.1 (26)	Feature records, Int 32. List of descriptions (with F nos.) for the field 'shape-profile'	Copp, AJ 1986
Z8.1 (27)	Feature records, Int 32. List of descriptions (with F nos.) for the field 'shape at top'	Copp, AJ 1986
Z8.1 (28)	Feature records, Int 32. List of descriptions (with F nos.) for the field 'shape at bottom'	Copp, AJ 1986
Z8.1 (29)	Context records, Int 32. List of descriptions (with C nos.) for the field 'identified'	Copp, AJ 1986
Z8.1 (30)	Context records, Int 32. List of descriptions (with C nos.) for the field 'material'	Copp, AJ 1986
Z8.1 (31)	Context records, Int 32. List of descriptions (with C nos.) for the field 'dominant colour'	Copp, AJ 1986
Z8.1 (32)	Context records, Int 32. List of descriptions (with C nos.) for the field 'consistency'	Copp, AJ 1986
Z8.1 (33)	Context records, Int 32. List of descriptions (with C nos.) for the field 'structure'	Copp, AJ 1986
Z8.1 (34)	Context records, Int 32. List of descriptions (with C nos.) for the field 'colour'	Copp, AJ 1986
Z8.1 (35)	Context records, Int 32. List of all keywords used for field 'size'	Copp, AJ 1986
Z8.1 (36)	Context records, Int 32. List of descriptions (with C nos.) for the field 'type size'	Copp, AJ 1986
Z8.1 (37)	Context records, Int 32. List of descriptions (with C nos.) for the field 'disturbance agents'	Copp, AJ 1986
Z8.1 (38)	Context records, Int 32. List of descriptions (with C nos.) for the field 'condition'	Copp, AJ 1986
Z8.1 (39)	Context records, Int 32. List of descriptions (with C nos.) for the field 'shape' in components	Copp, AJ 1986
Z8.1 (40)	Context records, Int 32. List of descriptions (with C nos.) for the field 'shape' of context	Copp, AJ 1986

Z8.1 (41)	List of contexts in Features. Int 32	Copp, AJ 1986
Z8.1 (42)	Feature file. Features backfilled with contexts (listed)	Copp, AJ 1986
Z8.1 (43)	Index of drawings. Int 32	Copp, AJ 1986
Z8.1 (44)	Conventions sheet for plans and section. Superseded Summer 1986	
Z8.1 (45)	Detailed remote recording of curved surfaces. Copy of handwritten version	Carver, MOH 1986
Z8.1 (46)	Attempt at photogrammetric recording of F9 (Int 20). Results - contour plots	Hooker, J 1987
Z8.1 (47)	Profiles across Int 26 drawn from stereo pairs. Photograph and profiles.	Hooker, J 1.7.1987
Z8.1 (48)	Examples of Wharram Percy photographic recording forms, with notes on system	Rahtz, S 11.1.1984
Z8.1 (49)	Report on the excavation of graves 1984-6	Copp, AJ
Z8.1 (50)	Central excavation Unit Manual. Part 2: Recording	English Heritage 1985
Z8.1 (51)	Letter to MOHC, concerning Sutton Hoo metal inventory pro forma	Evans, AC 21.5.1987
Z8.1 (52)	The Direct Survey Method (DSM) of underwater survey and its application underwater	Rule, N 9.3.1988
Z8.1 (53)	A comparison of the application of a three-dimensional survey system on three underwater archaeological sites	Adams, J and Rule, N
Z8.1 (54)	Sutton Hoo Procedures - incorporates mostly Z8.1(3) and Z8.1(4). With post 1989 additions up to 1991	Carver, MOH 1988
Z8.1 (55)	Revised keywords for INDEX file. Replaced Z8.1(5)	Hummler, MR & Peacock, LA 27.2.1990
Z8.1 (56)	Revised finds inventory: ceramic (pot) procedure. Replaces A8.1(6)	Hummler, MR & Peacock, LA 6.3.1990
Z8.1 (57)	Pottery type series notes. Also includes 2 sheets labelled ' <u>POTTERY ACTION</u> ' which is programme for type series.	Hummler, MR & Peacock, LA 28.2.1990
Z8.1 (58)	Structure record - field descriptions and keywords - <u>current</u> (Y4)	Copp, AJ
Z8.1 (59)	Feature keywords list with amendments - <u>superseded</u>	Copp, AJ
Z8.1 (60)	Feature record: field descriptions and keywords as Z8.1(59) into account <u>used on site until June 1990</u>	Copp, AJ
Z8.1 (61)	Feature record: field descriptions and keywords as Z8.1(60) with ms alterations	Copp, AJ June 1990

Z8.1 (62)	Feature record: field descriptions and keywords taking amendments of Z8.1(61) into account <u>used on site since June 1990 - CURRENT</u>	Copp, AJ June 1990
Z8.1 (63)	Context keyword list with amendments (<u>superseded</u>)	Copp, AJ
Z8.1 (64)	Context record: field descriptions and keywords taking amendments of Z8.1(63) into account. <u>Used on site until June 1990</u>	Copp, AJ
Z8.1 (65)	Context record: field descriptions and keywords as Z8.1(64) with ms alterations	Copp, AJ June 1990
Z8.1 (66)	Context record: field descriptions and keywords taking amendments Z8.1(65) into account. <u>used on site since June 1990 - CURRENT</u>	Copp, AJ June 1990
Z8.1 (67)	Feature checklist (CURRENT)	
Z8.1 (68)	Context checklist (CURRENT)	
Z8.1 (69)	Index of drawings (CURRENT) YO5	
Z8.1 (70)	Psion file checklist (CURRENT)	
Z8.1 (71)	Drawing record (CURRENT)	
Z8.1 (72)	Conventions (plans and maps) (CURRENT). Replaces Z8.1(44) Y50	
Z8.1 (73)	Hachure conventions (CURRENT). Replaces Z8.1(44) Y50	
Z8.1 (74)	Conventions : Sections (CURRENT)	
Z8.1 (75)	Colour conventions key (CURRENT)	
Z8.1 (76)	The photographic recording system and keywords (with amendments)	
Z8.1 (77)	Planet 2 user handbook (CURRENT)	MOHC August 1988
Z8.1 (78)	How to set up a theodolite over a grid station (CURRENT)	Royle, C 1988?
Z8.1 (79)	Sutton Hoo Remote Recording: use of theodolite and psion hand-held computer, step-by-step guide (CURRENT)	Roe, A & Hooper, E 1990
Z8.1 (80)	Sutton Hoo: Psion dumping procedure (CURRENT)	Copp, AJ & MRH revised June 1990
Z8.1 (81)	Graphic recording at Sutton Hoo <u>The Field Archaeologist</u> , 7 June 1987: 102-3	MOHC 1987
Z8.1 (82)	Registrazione grafica a Sutton Hoo. Italian translation of Z8.1(81) by Italian student on 1989 training exc.	Arioli et al 1989
Z8.1 (83)	The finds label (CURRENT)	
Z8.1 (84)	Data acquisition levels: Sutton Hoo [replaces recovery levels, see A8.1(1) and Z8.1(2)] (CURRENT)	MOHC 1988
Z8.1 (85)	Sutton Hoo archive system, (x,y and z files) now obsolete	Royle, C 1988
Z8.1 (86)	Sutton Hoo archive index YOO (site file) (CURRENT)	Copp, AJ 1991

Z8.1 (87)	Planet 3 user guide, ms notes on setting up Planet 3 programme	MOHC and Copp, AJ Jan, 1992
Z8.1 (88)	Misc. recording notes (mainly finds recovery on site and flint recording)	Copp, AJ April 1986
Z8.2	METHODOLOGY - EXCAVATION	
Z8.2 (1)	Notes on excavating a grave. <u>Superseded by Z8.2(8)</u>	Hooper, E? 1986?
Z8.2 (2)	Mound 2. Method of excavating and recording	MOHC 1987
Z8.2 (3)	Round barrow excavation strategy: a discussion with particular reference to the Sutton Hoo barrows. MA dissertation	Shotliff, A Oct. 1985
Z8.2 (4)	The area to be excavated, showing ideal and minimum samples. 1986 (project design) superseded by Z8.2(5). A4 figure	Hooper / MOHC 1986
Z8.2 (5)	Revised excavation sample. 1987. (Bulletin no.5). Supersedes Z8.2(4). A4 figure	Royle, CL Nov. 1987
Z8.2 (6)	Programme for excavating minimum viable sample. Superseded by Z8.2(5). (Project design). A4 figure	MOHC / Hooper 1985
Z8.2 (7)	Minutes of meeting of Soc. Ant. in 1939, concerning timing of excavations at Woodbury by Dr Bersu	22.2.1939 Soc. Ant.
Z8.2 (8)	Recovery procedure for a grave [replaces Z8.2(1)]	Copp, AJ 1988?
Z8.2 (9)	Sutton Hoo: feature excavation procedure at level D	MRH/Copp, AJ June 1990
Z8.2 (10)	Sutton Hoo: equipment needed for feature excavation at level D	MRH June 1990
Z8.3	METHODOLOGY - REMOTE SENSING METHODS	
Z8.3 (1)	Total collection fieldwalking at North Stoke, Oxon. ST56 Interim report	Ford, S & Hazell, A 1988
Z8.3 (2)	Letter to MOHC concerning dowsing results at Quay St Nicholas, with comments on the method's reliability (and its application at SH)	Trump, D 13.8.1987
Z8.3 (3)	Letter to MOHC concerning remote sensing invention - Detektoniks (UK) Arachnid D4. Details of construction, etc. (not to be taken seriously)	Bolton, PJ? 4.5.1987
Z8.3 (4)	Offprint. Section VII: Prospecting. Magnetic location and resistivity surveying. Pub. in? pp681-707	Aitken, M ?
Z8.3 (5)	Offprint. Goodyear, FH 1971 <u>Archaeological Site Science</u> . Heinemann pp225-245 Part 4 - Archaeological Prospecting (Resistivity and magnetic methods)	Goodyear, FH 1971
Z8.3 (6)	Remote sensing methods - notes for teaching	Royle, CL 1986
Z8.3 (7)	Offprint. An Experimental Underground Radar for Historical Archaeology. Northwest Telecommunications Engineering Inst Xi'an, People's Republic of China	Qiang Bohan & Chang Yilin

Z8.3 (8)	Metal detectors: Arado 120B, Arado IBA 95. Specifications and field test report	Arado Electronics 1984
Z8.3 (9)	Geometrics portable proton magnetometer Model G-816. Specifications	Geometrics August 1974
Z8.3 (10)	BGS offset sounding cable systems. Specifications	Barker Geo-physical Soundings
Z8.3 (11)	GSE Rhometer. Resistivity. Specifications	Geophysical & Scientific Equipment Ltd
Z8.3 (12)	Offprint from Ground Engineering, Jan 1983. Sub-surface investigation for shallow mine workings and cavities by the ground impulse radar technique	Leggo, PJ & Leech, C Jan 1983
Z8.3 (13)	Geonics Ltd. Technical note TN-1. EM16R (radiohm) two-layer interpretation curves	Geonics Ltd
Z8.3 (14)	Geonics Ltd. Technical note TN-9. Survey interpretation Technique EM38	McNeill JD Nov. 1980
Z8.3 (15)	A magnetometer survey of the Knife River Indian villages. <u>Plains Anthropologist</u> , Journal of the Plains Conference. Memoir 13 1977 22-78 Pt.2	Weymouth, JW & Nickel, R 1977
Z8.3 (16)	Archaeological Prospecting: A progress report. <u>J.Arch.Sci</u> 1975, 2, pp297-314	Clark, A 1975
Z8.3 (17)	A microcomputer system for data logging in geophysical surveying. <u>Archaeometry</u> 26, 2 (1984) pp183-191	Kelly, MA; Dale, P & Haigh, JGB 1984
Z8.3 (18)	On the comparison between magnetic and electromagnetic prospection methods for magnetic features detection. <u>Archaeometry</u> 26, 2 (1984) pp 171-182	Tabbagh, A 1984
Z8.3 (19)	Underground detection using differential heat analysis <u>Archaeometry</u> 26, 1 (1984) pp21-36	Benner, SM & Brodkey, RS 1984
Z8.3 (20)	Magnetic prospecting: the proton gradiometer. <u>Archaeometry</u> , 1960 Vol.3 pp380-40	Aitken, MJ 1960
Z8.3 (21)	Enhancement of the magnetic susceptibility of soils on archaeological sites. <u>Archaeometry</u> 13, 2 (1971) pp209-219	Tite, MS & Mullins, C
Z8.3 (22)	Computer-assisted techniques for detecting underground remains based on acoustic measurement. <u>Archaeometry</u> 21, 1 (1979) pp87-100	Ozawa, K & Matsuda, M 1979
Z8.3 (23)	Magnetic prospecting IV. The proton magnetometer. <u>Archaeometry</u> , 1959 Vol.2 pp40-42	Aitken, MJ 1959
Z8.3 (24)	Cesium magnetometer, resistivity and radar. Notes in <u>Fundamentals of Archaeology</u> . Benjamin, Cummings Publishing Co. Inc. pp164-7	Sharer, RJ & Ashmore, W

Z8.3 (25)	Geoelectrical survey of archaeological sites. <u>PPS</u> no.5 1960 pp64-75	Palmer, LS 1960
Z8.3 (26)	EG & G Geometrics. UniMag Proton Magnetometer Model G-846. Specifications	EG & G Geometrics 1980
Z8.3 (27)	Geoscan Research Resistance Meter RM4. An introduction to resistivity surveying with the RM4. Application note AN1.	Walker, AR April 1984
Z8.3 (28)	Geoscan Research Resistance Meter RM4. Data sheet Walker, AR April 1985 SHA Z8.3 (28)	Walker, AR April 1985
Z8.3 (29)	A preliminary geophysical survey of an Anglo-Saxon cemetery at Snape, Suffolk. Univ. of Bradford Occ.P3 <u>Filed under Z3.4(1)</u>	Dockrill, S & Edwards, GM 1982
Z8.3 (30)	Letter to C Royle concerning use of ground seeking radar. Contains details of resistivity survey by Egypt Exploration Society at Memphis. Reply attached.	Mathieson, IJ 15.4.1986
Z8.3 (31)	Notes on earth resistance surveying. With particular ref. to the use of the Bradphys Mk IV Earth Resistance Meter. With accompanying letter by John Bateman re specifications on resistivity meter and fluxgate gradiometer (dated 17 Dec. 1987)	Aspinall, A
Z8.3 (32)	The Bradphys MkIV Earth Resistance Meter. Maintenance handbook.	Bradford Univ. Research Ltd
Z8.3 (33)	Fluxgate gradiometer type AMOI. Preliminary operating instructions	Philpot Electronics. Oct. 1979
Z8.3 (34)	Notes on various types of remote sensing methods, with relevance to SH	Royle, CL 1985
Z8.3 (35)	Phosphate analysis of soils: a guide for the field archaeologist. <u>IFA Technical Paper 3</u>	Gurney, DA 1985
Z8.3 (36)	Notes taken from article 'Metal Detecting in Archaeological Excavation', <u>Antiquity</u> LVIII, 1984	Gregory, T & Rogerson, AJG 1984
Z8.3 (37)	Decco metal detector survey on Delos. <u>Archaeometry</u> 11, (1969) pp168-9 only. Concerns location of pottery by metal detectors	Foster, E & Hackens, T 1969
Z8.3 (38)	A note on magnetic prospecting near wire fences, quoting 'magnetic prospecting: I - the Water Newton Survey'. <u>Archaeometry</u> 1, pp24-29 (1958). Quoted by C Royle	Aitken, MJ 1958
Z8.3 (39)	On-site processing of magnetic surveying data on plains archaeological sites. Dept. Physics & Anthropology, Univ. Nebraska, Lincoln	Weymouth, J 1983?
Z8.3 (40)	GSE Rentals Ltd. Catalogue of geophysical survey equipment	GSE Rentals Jan 1984
Z8.3 (41)	Geonics Ltd. Catalogue of electromagnetic instruments	Geonics Ltd

Z8.3 (42)	GSE. Some examples of ground probing radar in geotechnical situations	GSE
Z8.3 (43)		
Z8.3 (44)	Evaluation of the use of thermal airborne prospection for archaeology during the last ten years. <u>Proceedings of IGARSS '84 Symposium</u> , Strasbourg 27-30 August 1984. pp205-8	Tabbagh, A August 1984
Z8.3 (45)	Prospection thermique aeroporté du site de Prepoux (Villeneuve-la-Guyard, Yonne)	Tabbagh A
Z8.3 (46)	<u>Aerial photography and geophysical prospection in archaeology</u> . Proceedings of the International Symposium, Brussels, 8.12.1979. CIRA-ICL. Experience et progres en prospection geophysique des sites archeologiques	Hesse, A & Tabbagh, A 1982
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Z8.3 (48)	Bartington Model MS2. Magnetic Susceptibility Sytem. Specifications and Bibliography	Bartington Instruments Ltd
Z8.3 (49)	Bartington Model MS2 Magnetic Susceptibility System. Operation manual and software manual 'Geofieldsoft'	Bartington Instruments Ltd
Z8.3 (50)	Development and use of ground-based remote sensing techniques for archaeological information recovery in medieval and post-medieval buildings. Dept. Archaeology, Univ. of Nottingham	Brooke, CJ Jan 1984
Z8.3 (51)	Letter to C Royle from Oceanfix re survey at York. Continues with article CEU AM Lab Annual report 1988. Castle of Wardhouse, Insch, Gordon District	Peter Simkins Feb. 1989
Z8.3 (52)	Letter to C Royle suggesting geophysical survey equipment at SH	GSE Ltd 21.2.1985
Z8.3 (53)	The Goodwin Sands Survey: 1983. Offprint from the Hydrographic Journal No 33, July 1984. The Second International Hydrographic Technical Conference Issue	Fleming, MJ July 1984
Z8.3 (54)		
Z8.3 (55)	Archaeologists map wrecks beneath the sea. <u>New Scientist</u> 3 Oct. 1985. Article concerning work of Marine Archaeological Surveys	Joyce, C 3.10.1985
Z8.3 (56)	Remote sensing and archaeology. Mainly concerns aerial photography. Aston University. Civil Engineering Dept. Remote Sensing Unit	Gray, J 1985?
Z8.3 (57)	Archaeological application of sub-surface radar	
Z8.3 (58)		

Z8.3 (59)		
Z8.3 (60)	East Brittany Survey: Oust-Vilaine Watershed. An example of field walking, phosphate and magnetic susceptibility surveys.	Asthill, GG & Davies, W 1.8.1983
Z8.3 (61)	An electronic ranging rod for rapid one-man contour surveys. <u>Science and Archaeology</u> no. 26 (1984) pp3-4	Spicer, RD 1984
Z8.3 (62)	Offprint? Methods of physical examination in archaeology	Tite, MS 1972
Z8.3 (63)	Offprint? Physics & Archaeology	Aitken, MJ 1974
Z8.3 (64)	'Introduction to subsurface radar' <u>IEE Proceedings</u> Vol 135 Pt.F no.4 pp278-319	Daniels, DJ, Gunton, DJ & Scott, HF 1988
Z8.3 (65)	Subsurface investigation for shallow mine workings and cavities by the ground impulse radar technique. <u>Ground Engineering</u> , Jan 1983 pp.20-23	Leggo, PJ & Leech, C 1983
Z8.3 (66)	Grouting a sand dam (ground penetr. radar technique on a dam) <u>Civil Engineering</u> , Dec. 1986	Silver, ML, Fisk, PS & Greenman, AL 1986
Z8.3 (67)	An initial appraisal of ground probing radar for site investigation in Britain. <u>Ground Engineering</u> , April 1981, pp.14-18	Darracott, BW & Lake, MI 1981
Z8.3 (68)	Ground penetrating radar surveys used in archaeol. investigations. <u>Geophysics</u> 51, no.3 pp.595-604	Vaughan, CJ 1986
Z8.3 (69)	Ground penetrating radar for historical archaeology. Journal unknown, USA	Bevan, B & Kenyon, J 1975?
Z8.3 (70)	Use of ground probing radar and resistivity surveys for arch. investigations. <u>Geophysics</u> vol.52 no.2 pp.137-150	Imai, T, Sakayama, T & Kanemori, T 1987
Z8.3 (71)	Newspaper cutting, Independent (David Keys) re ground probing radar used by Groundscan, Maidstone, Kent	Independent 28.11.1988
Z8.3 (72)	EG & G Geometrics Portable Proton Magnetometer Model G856A. Specifications	EG & G Geometrics 1981
Z8	METHODOLOGY	
Z8.4 (1)	Letter to MOHC, concerning consolidation materials	Wright, EV 10.2.1983
Z8.4 (2)	Letter to BM concerning consolidation method for sandbodies using CO ₂ . Reply from BM attached.	Taylor, PA 20.9.1985
Z8.4 (3)	Instructions for making 'sandman replica' in fibreglass	Hooper, E & Royle, CL 1986
Z8.4 (4)	Letter to MOHC and article on soil consolidation and moulding at Sutton Hoo by BM	Bradley, SM & Oddy, WA 7.9.1987

Z8.4 (5)	Ambersil silicones. Replikator RTV 2035. A room temperature vulcanising silicone rubber for the production of flexible moulds	Ambersil Ltd. 1987
Z8.4 (6)	Synthetic alternatives for plaster of Paris on excavation. Dept. Conservation, BM. Includes remarks on making a support for a latex mould at Sutton Hoo	Newey, H, Dove, S and Calver, A 1987
Z8.5	METHODOLOGY - DECAY PRODUCTS	
Z8.5 (1)	Decomposition of bodies. Notes taken at Leeds conference	MOHC - 1986?
Z8.5 (2)	Notes: to identify by chemical sprays in the field the decay products of bone, wood and clothing. Proposals for research	Woodhall, M 1985
Z8.5 (3)	Sutton Hoo - skeletal studies. Observations after visit to site	Rogers, J August 1985
Z8.5 (4)	Leverhulme project: interim report 1987	Bethell, J & Miles, J 1987
	MOHC's copy of above	
Z8.5 (5)	Leverhulme project: Interim report 2, March 1988	Bethell, P (ed)
Z8.5 (6)	Int 54: report on decay of artefacts buried in 1984 and recovered in 1991	Bethell, P July 1991
Z8.5 (7)	Paleopathology and diagenesis: an SEM evaluation of structural changes. <u>JAS</u> 17, 1990 pp.85-102	Bell, L 1990
Z8.5 (8)	Diagenetic alteration to teeth in situ illustrated by backscattered electron imaging. <u>Scanning</u> vol.13, 1991 pp197-183	Bell, L 1991

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z8.6	METHODOLOGY - CHEMICAL TESTS AND DATING METHODS	
Z8.6 (1)	Tests and treatments. <u>Archaeological Site Science</u> . Heinemann. Part 3, Scientific aids for the excavator, Ch.3 pp.206-219	Goodyear, FH 1971
Z8.6 (2)	Sampling procedures for archaeological radiocarbon dating. Also letter to K Dowse from J Ambers	BM Res. Lab. Ambers, J Jan. 1988
Z8.6 (3)	Phosphate analysis of soils: a guide for the field archaeologist. IFA technical paper no. 3	Gurney, DA IFA 1985
Z8.6 (4)	A method of soil phosphorus analysis for use in the field. Also covering letter to C Royle from S Lobb, TWA	Entwhistle, R TWA
Z8.6 (5)	Guide to the Durham TL dating service	Bailiff, I 1980's
Z8.7	METHODOLOGY - COMPUTER APPLICATIONS	
Z8.7 (1)	Whizplot: Computer programs for produg contour maps and isometric surface plots from gridded data. Dept. Geology, Univ. Manchester	Sowerbutts, WTC 1985?
Z8.7 (2)	Data visualisation: recent advances in the application of graphic systems to archaeology. UKSC report 185	Reilly, P IBM March 1988
Z8.7 (3)	Two A5 figures showing contours of Mounds 6 and 7, with dots to mark positions of readings taken. Also letter to C Royle from J D Richards concerning the computer program used. (Int 30)	Richards, JD 10.12.1987
Z8.7 (4)	Three A4 figures showing 3-D models of Sutton Hoo site, and Mounds 6 and 7. Computer manipulation of Int 30 data	Richards JD 21.1.88
Z8.7 (5)	Minutes of SYASS Committee reporting use of Sutton Hoo as database	SYASS 15.12.1987
Z8.7 (6)	Notes associated with the paper & computer archive as it stands at 14.4.86 + 1 sheet recording P and C archive for Ints 2,3,4,5,6,7,9,11,12,13,15,16,18,19-24,26,27,30-32	AJC April 1986

SEARCH CODE	DESCRIPTION	AUTHOR & DATE
Z9	SYNTHESIS	
Z9.1 (1)	'The Million Pound Grave' uncorrected typescript	BBC
Z9.1 (2)	BBC transcripts 1984	BBC
Z9.1 (3)	Audience viewing figures for Sutton Hoo programmes	BBC 1985
Z9.2	SYNTHESIS - INTERIM REPORTS	
Z9.2 (1)	Bulletin of the SH Research Committee No. 1	MOHC April 1983

Z9.2 (2)	Bulletin of the SH Research Committee No 2	MOHC April 1984
Z9.2 (3)	Bulletin of the SH Research Committee No 3	MOHC July 1985
Z9.2 (4)	Bulletin of the SH Research Committee No 4 also archived as Z9.3(3)	MOHC July 1986
Z9.2 (5)	Bulletin of the SH Research Committee No 5	MOHC Jan. 1988
Z9.2 (6)	Bulletin of the SH Research Committee No 6	MOHC April 1989
Z9.2 (7)	Bulletin of the SH Research Committee No 7	MOHC April 1990
Z9.2 (8)	Bulletin of the SH Research Committee No 8	MOHC 1992
Z9.3 (9)	Report to Soc of Antiquaries Research Committee Sutton Hoo Research Project 1988-9	MOHC Oct 1989
Z9.3 (10)	Sutton Hoo: the prehistoric sequence (for PAST, Newsletter of Prehist. Soc.	MRH Jan 1991
Z9.3 (11)	Inventory of early medieval burials as at March 1992 SUPERSEDED BY Z9.2(8)	MOHC March 1992
Z9.3 (12)	Inventory of Anglo-Saxon burials [prepared for inclusion into Z9.2(16) and Z9.2(8)]	MOHC Summer 1992
Z9.2 (13)	Sutton Hoo: a drama in 3 acts. Page proof of article in <u>CA</u> 128	Selkirk after Carver March 1992
Z9.2 (14)	Sutton Hoo: a drama in 3 acts. Current Archaeology 128 (front cover and article) Vol XI no 8, March 1992 pp.324- 330	Selkirk after Carver March 1992
Z9.2 (15)	Part IV Postscript: The Site of Sutton Hoo on the completion of the fieldwork page proof for <u>The Age of Sutton Hoo</u> (Boydell Press 1992)	Carver 1992
Z9.2 (16)	<u>The Age of Sutton Hoo</u> (MOH Carver, ed) Boydell & Brewer, Nov 1992	Carver 1992
Z9.3	SYNTHESIS - RESEARCH DESIGNS & PROG	
Z9.3 (1)	The Sutton Hoo project, revised res. design. 2nd rev. 6 Feb 1983	MOHC 6.2.1983
Z9.3 (2)	Sutton Hoo project design	MOHC 1985
Z9.3 (3)	Bull. of the Sutton Hoo Research Committee 4 = <u>Research Design</u>	MOHC July 1986
Z9.3 (4)	Letter to Cath Royle: operational structure and programme for summer 1989 (ms xerox copy)	MOHC 1989
Z9.3 (5)	Letter to N McBeth: operational structure & programme for summer 1989 (ms xerox copy)	MOHC 1989
Z9.3 (6)	Letter to A Copp: operational structure & programme for summer 1989 (ms xerox copy)	MOHC 1989
Z9.3 (7)	Sutton Hoo computer objectives (to AJC)	MOHC 1989

Z9.3 (8)	Letter to Angela Evans: operational structure & programme for summer 1989 (ms xerox copy)	MOHC 1989
Z9.3 (9)	Letter to AJC on work programme 1989 onwards	MOHC 5.6.1989
Z9.3 (10)	MS notes on prehistoric research design (meeting with MOHC)	MRH 29.6.1989
Z9.3 (11)	Ms notes on exc. programme summer 1989	MRH June 1989
Z9.3 (12)	Programme, week 1, summer 1989	MOHC July 1989
Z9.3 (13)	Sutton Hoo Anniversary season, 3 July - 22 Sept. 1989, objectives and programme	MOHC July 1989
Z9.3 (14)	Ms note 'Additional points and Actions' re animal bones Int 41, 'rope' Int 41, C14 dates, micromorph	MOHC Oct. 1989
Z9.3 (15)	Sutton Hoo post excavation programme	MOHC Jan 1990
Z9.3 (16)	Dept. of Arch. Univ. of York - work experience programme (includes Sutton Hoo)	MOHC 19 Jan 1990
Z9.3 (17)	Meeting to arrange exc. programme for summer 1990	JG 7.5.1990
Z9.3 (18)	End of project programme (ms notes, xeroxed)	MOHC 1990
Z9.3 (19)	Last season 1991 programme (ms notes, xeroxed)	MOHC 1990
Z9.3 (20)	Ms notes on post exc. meeting and internal work programme	MRH 13.2.1991
Z9.3 (21)	Plan A for spring season 1991 & Autocad drawing of Interventions	AJC Feb 1991
Z9.3 (22)	Sutton Hoo final year: responsibilities	MOHC April 1991
Z9.3 (23)	Early Anglo-Saxon period: priorities for the 1990's	A Dornier Jan 1989
Z9.3 (24)	Sutton Hoo 1991: summer season responsibilities. Ms note	MRH/MOHC 5.10.1991
Z9.3 (25)	Form, content & dissemination of project records	MOHC 5.10.1991
Z9.3 (26)	SHRP: Composition and disposal	MOHC 5.10.1991
Z9.3 (27)	Sutton Hoo action: Jan-March 1992	MRH Jan. 1992
Z9.3 (28)	Sutton Hoo: site closure	MOHC 30.3.92
Z9.3 (29)	Things to do on finds	MOHC April 1992
Z9.3 (30)	Archive construction - programme for A Copp 1 April - 30 Sept. 1992	MOHC April 1992
Z9.3 (31)	Field research and Intervention on sand, terrain (outline specification for a doctoral thesis by A Copp)	MOHC April 1992

Z9.3 (32)	Production of field reports - latest decisions, July 1992	MOHC July 1992
Z9.3 (33)	New itinerary - prehistory. Ms note	MOHC Oct. 1992
Z9.3 (34)	BUFAU Guide 14, publication guide	MOHC May 1983
Z9.3 (35)	ANTIQUITY. Notes for contributors	Antiquity Feb. 1988
Z9.3 (36)	IFA Occ Paper 6 <u>Reducing Publication Costs</u>	P Crummy 1987
Z9.4	SYNTHESIS - SUTTON HOO SEMINARS & CONFERENCES	
Z9.4 (1)	Sutton Hoo 1989 - 50th Anniversary Conference (29 Sept. - 1 Oct. 1989). Letter, programme, list of participants, contents of 'Sutton Hoo Studies', revised programme, revised list of participants, abstracts, ms notes by MRH	MOHC Sept 1989

9. STRATEGIES AND AGREEMENTS [see also Volume 3]

9.1 Letter, on behalf of Mrs Tranmer, landowner, agreeing to excavation 27 April 1982

9.2 Minutes of a meeting of the Sutton Hoo Committee, agreeing to go ahead with excavation, 27 May 1982

9.3 Memorandum of Agreement Between the Society of Antiquaries of London and the British Museum on the Sutton Hoo Project in 1982

The purpose is a major research excavation at Sutton Hoo under the joint aegis of the Society of Antiquaries of London and the British Museum. The initial financial commitment is to archaeological investigation at the Sutton Hoo barrow cemetery. Sutton Hoo is the centre of the project, but it will be investigated in the wider context of knowledge of the archaeology of the 5th-8th centuries, and of the history and archaeology of East Anglia, in consultation with the other bodies guiding research in the area.

1. Sutton Hoo Committee: This committee will supervise the project. It will normally meet once a year - or more often if the Chairman specially directs - to receive the report of the Sutton Hoo Executive Committee and to discuss matters of general policy. It is proposed that the members of this Committee should have power to co-opt and should include the following:

The President of the Society of Antiquaries (Chairman)
The Director of the British Museum
The four members of the Committee hitherto known as the Sutton Hoo Steering Committee
The Keeper of the Research Laboratory and Conservation Department of the British Museum
Two representatives of regional archaeological interests in East Anglia
A representative of the Inspectorate of Ancient Monuments
A representative of the National Maritime Museum
A representative of the interests of related studies
Mr Robert Pretty
The members of the Sutton Hoo Executive Committee

2. The Sutton Hoo Executive Committee: This committee shall have control over the project and will report annually to the Sutton Hoo Committee and shall consist of:

The President of the Society of Antiquaries (Chairman)
The Treasurer of the Society of Antiquaries
Two members appointed by the Society of Antiquaries
A member of the Board of Trustees of the British Museum
Two members appointed by the British Museum

3. Director: The Executive Committee will appoint the Director and senior staff for the project and will submit names for approval to the Sutton Hoo Committee. The Director will be appointed by the Executive Committee on an agreed salary for three years extendable for a further period or periods, and shall have responsibility for conducting excavations and preparing reports. He will be required to make all day-to-day decisions. He will report to the Executive Committee and will attend the Executive Committee and the Sutton Hoo Committee.

4. Publication: Annual reports shall be prepared by the Director of Excavations for publication by the Society of Antiquaries. Publication of a final volume or volumes will be subject to a decision to be taken later by the Sutton Hoo Committee.

5. Consultant: Dr Rupert Bruce-Mitford shall be invited to be Consultant to the project. He will be informally consulted on the appointment of the Field Director. The Consultant's learning and expertise will be available to the Director of the

Excavation as well as to the Committee.

6. The Finds: All finds shall be given to the British Museum, who shall be responsible for conservation of the objects during and after excavation.
7. Access to the Site: This Agreement is conditional on access to the site being guaranteed for the duration of the project.
8. Duration: The initial excavation shall be planned over five annual seasons. At the end of the third season the results of the excavation will be reviewed and a decision on continuation will be taken. The membership of the Committees will also be reviewed at this point.
9. The Financial Arrangements: will be agreed between the Society of Antiquaries of London and the British Museum by an Exchange of letters of the same date.

9.4 Letter from the Director to the President on the principle of the Project Design 14 Aug 1985

9.5 Letter from the Director to the President on the options for funding the project. 21 Nov 1985

9.6 Letter from Robert Pretty on the granting of his inherited rights, 20 Feb 1986

9.7 A Valuation of Sutton Hoo for purposes of tax (M. Carver, 16 May 1986)

9.8 Deed of Grant and Conveyance of rights belonging to the Pretty family to the Sutton Hoo Research Trust and its successors. 6 June and 8 July 1988