Vathia from the South

SETTLEMENT IN THE MANI PENINSULA: A STUDY IN HISTORICAL GEOGRAPHY

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Ό τόπος μας είναι κλειστός, όλο βουνὰ
Τοὺ ἔχουν σκεπή τὸ Χαμηλὸ οὐρανὸ μέρα καὶ νύχτα.
Δὲν ἔχουμε Ποτάμια δὲν ἔχουμε πηχάδια δὲν ἔχουμε πηχές,
μονάχα λίγες στέρνες, ἀδειες κι' ἀὐτές, ποὺ ἦχοῦν καὶ ποὺ
τὶς προσκυνούμε.

Γιώργος Σεθέρης Μυθιστόρμα Ι΄

Our country is a shut-in place, all mountains

And the mountains roofed by a low sky, day and night,

We have no rivers, we have no wells, we have no fountains,

Only some cisterns, empty; they ring and are to us
Objects of worship.

George Seferis

Mythistórema 10

(trans.Rex Warner)

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ABSTRACT

FACULTY OF ARTS

GEOGRAPHY

Doctor of Philosophy

SETTLEMENT IN THE MANI PENINSULA: A STUDY IN HISTORICAL

GEOGRAPHY

By

John Malcolm Wagstaff

A review of the literature on Greek rural settlements reveals the general lack of historico-geographical studies tracing the evolution of settlement patterns in any part of the country. Demographic studies, however, suggest that over time the greatest densities of population have alternated between the lowlands and the physically difficult, often highland, parts of the country. The current phase is one of retreat from the difficult regions and relocation in the lowlands. This thesis examines the evolution of settlement patterns between c.3000 B.C. and c. A.D. 1830 in one of the regions (the Mani) associated with the opposite phase when population is alleged to have retreated from the lowlands. Settlement patterns have been reconstructed for six time-horizons in the period, their temporal position being determined by the availability of source material. Investigation of the sequence of reconstructions reveals a major change in settlement patterns between the sixth and thirteenth centuries A.D. Developments preceding and succeeding the break resulted from the almost organic growth in the number of settlements and spread effects. Examination of the socio-economic history of the region allows explanation to be advanced for the various elements of change and stability, colonisation and spread, apparent over time. Massive emigration is rejected as a causal factor. Particular use is made of catastrophe theory to simulate the way in which a radical change in settlement patterns could result from the operation of forces internal to the region. Finally, a number of hypotheses are advanced for testing in subsequent work.

W.

Preface

The origins of my work on the Mani go back to a fascination generated by P.L. Fermor's book, Mani: Travels in the Southern Peloponnese, published in 1958. Although I now disagree with Fermor on many points, his book remains a wonderful evocation of a strange, harsh and dreadful, but attractive region. My imagination was seized and I decided to divert my growing interest in Greek rural settlements, already assisted by long vacations in the country financed by the Leverhulme Trust and the Ford (Dagenham) Trust, towards the Mani. In short, the towered Maniat settlements drew me; I wanted to understand their characteristics and their evolution. The opportunity was provided by studentships from the Greek Ministry of Education and the University of Liverpool, which allowed me to spend the academic year 1962-63 in Greece. mainly in the Mani itself. In presenting the fruits of my labours to date, I should like to record my gratitude to these bodies. My thanks are also due to the North Atlantic Treaty Organisation for a fellowship, which allowed me to study settlement in the neighbouring 'Elos Plain in 1967, and to the Royal Society for a grant from the 20th International Geographical Congress Fund which financed a study of deserted settlements in the Mani during 1970.

Many people have assisted my work in Greece over the years. In recording my debt and offering my thanks, I am conscious that not everyone can be named personally; I must apologise to those who are not mentioned and ask indulgence and forgiveness.

My gratitude is due to the University of Athens, where I was an auditor in the Faculty of Science during 1962-63, and to Professor P.

Psarianos, Head of the Department of Physical Geography, whose nominal pupil I became. My associations with the Gennadius Library and the British School of Archaeology have always been pleasant and fruitful, and I am grateful to their staff for assistance and indulgence. I also record my debt to the Greek National Library. Special thanks must be extended to Mr. A. A. Pallis, who has always taken a kindly interest in my work and spared time to share his great knowledge of Greek affairs with me.

Amongst numerous officials in the Greek administration my thanks in connection with this study are due especially to Mr. P. Couvelis, formerly Director General of the National Statistical Service of Greece, for ordering the compilation of a Maniat abstract from the censuses of 1920-1951, and to Mr. S. Scandalis, Nomark of Lakonia in 1962-63, who facilitated my work in several ways.

Various expatiates working in Greece in 1962-63 helped with their time and experience; without them my faltering steps would have been even more difficult. I wish to thank them all, especially Dr. D. J. Burdon, then with F.A.O., Brigadier E.J. Snowball, military attache, and Professor K. Thompson, of the University of California but seconded to the Centre of Economic Research.

In Britain, I wish to thank my colleagues at Durham and Southampton for bearing my Maniat fascination with indulgence and kindness. Special mention should be made of Professor J.H.Bird, who supervised my work at Southampton, Miss C. Delano Smith, (now at Nottingham university), Dr. V. B. Proudfoot (now at St. Andrews) and Dr. D. A. Pinder (Southampton) who between them have suffered most, but kindly discussed various aspects of my research and gave much practical assistance. I am also grateful to Professor S. A. Robertson, a Southampton mathematician, for clarification of "catastrophe: theory". In addition, I owe a great deal to the patience of Mr. A. S. Burn and the Southampton Cartographic Unit, for they produced the maps and diagrams from my roughs, as well as to Mrs. Margaret Gamble for her care in producing the text.

Finally, it is a great pleasure to acknowledge my debt to my wife, who accompanied me on my first stay in the Mani, and to the Maniats themselves, especially the people of Yithion, amongst whom we lived so happily. But for the friendship and hospitality shown by the Maniats, my work could scarcely have begun, let alone have reached its present state. The many-sided debt to my wife is incalculable.

Swaythling

St. Nikon the Penitent

Note on Place Names

The transliteration of names from one language and script to another always presents problems. These are increased in historical studies. for different sources have employed different systems and not always with any degree of consistency. In the following chapters, the westernised forms of Greek settlement names current at a particular period have generally been used. without any attempt at further standardisation. This brings the reader closer to the sources and the period concerned; difficulties from period to period can often be resolved by speaking the names out loud. In Chapter 4 however, an effort has been made to standardise all place names, using the spelling of settlement names in the 1961 census and a slighly modified form of the transliteration scheme suggested by R. A. Dawkins (The Transliteration of Modern Greek, Annual of the British School at Athens, 15 (1908-09), pp. 214-22). The names of topographical features mentioned in this chapter are taken as standard and an attempt has been made to use these forms throughout. It should also be noted that in dealing with antiquity I have employed a standardised Latin form for place names, derived from H. Kiepert's Atlas Antiquus (12th ed., 1898), so that misleading identifications with later names can be avoided.

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CHAPTER 1: THE RETREAT OF SETTLEMENT: A MAJOR PROBLEM IN GREEK HISTORICAL GEOGRAFHY

The Problem Stated

The majority of settlements in Greece today is found in the difficult parts of the country, the mountains and islands. The same districts have been losing population since at least the 1920s, though 👙 in the case of congested districts like the Mani (Peloponnisos), depopulation began earlier in the century. More than 70 per cent of the Greek population in 1961 lived at elevations below 200 metres, that is generally speaking in the mainland This change in population distribution is a complex phenomenon. plains. It results partly from the destruction of settlements and the relocation of people which took place in the first half of the twentieth century, especially during the period 1941-50 when Greece was occupied by the Axis powers and Bulgaria and then became embreiled in a bitter civil war. Change is partly explained by the settling of refugees on the plains of northern Greece between 1922 and 1926, following the failure of "Greece's Anatolian Venture", and it is also related to the phenomenal growth of Athens, itself stimulated by the influx of refugees. However, changes in socio-economic conditions, initiated with the first phase of independence achieved by 1830, have been of basic importance. They have made the cultivated plains and the lowland towns, especially Greater Athens, very attractive to the mountaineers and islanders. Their living standards at home have steadily declined and become unacceptably low as the combined result of such developments as industrialisation, local population pressure and the ploughing up of winter grazing in the lowland. Helative security and independence are no longer countervailing benefits in conditions of relative internal peace and comprehensive administration from the centre. Accordingly, depopulation has produced many shrunken and deserted settlements.

These relicts are still part of the total pattern of settlements in modern Greece which has its present form not so much because of the very

large proportions of the country composed of mountains and islands ,but as a result of deliberate movements of lowland population seeking refuge. The antiquity most settlements in Greece were found fringing the lowland. The areas of the modern plains often appear to have been empty of occupation, an apparently remarkable position in view of their agricultural potential today. but one which may now be explained by their recent origin or modification as the result of alluviation during medieval times. The peripheral but largely lowland distribution of settlements is believed to have continued, without serious modification on the national scale, down to the second half of the fourteenth century. As elsewhere in the Balkans after 1345 Turkish raids and the final Ottoman conquest of Greece were attended by devastation and slaughter which induced the surviving people to flee into less accessible districts, particularly the mountains. One of the most important of the refuge districts is said to have been the mountainous and almost waterless peninsula of the Mani in the southern Peloponnisos. It is further argued that here and in similar regions immigration led to some expansion of existing villages and the foundation of many new settlements in previously unoccupied territory, as the people were prevented from returning to the lowland by what are usually represented as the cruelties and capricious policies of an alien government. The corollary of settlement foundation would be changes in settlement patterns in the retreat districts.

Most studies of Greek settlement to date have ignored the questions raised by this familiar argument: whether desertion of the lowlands actually took place, when, where, for what reasons, and the effects which the refugee foundations had on existing settlement patterns, particularly in the retreat areas. A study by Antoniadis-Bibicou seems to be the only one so far published with some bearing on these questions. Its methodology and conclusions are questionable, but it serves to highlight one aspect of the general problem. The author agrees that the period of the Turkish conquest in the fourteenth

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Over 60 per cent of mainland Greece is mountainous and islands compose about 19 per cent of the total area of the country.

and fifteenth centuries constituted the major phase of settlement desertion before the destruction of the Greek War of Independence (1821-30). Her distribution maps, however, show that most of the allegedly deserted settlements were actually in mountainous districts. Verification is clearly needed. The majority of studies on Greek settlement have concentrated on different topics. The most popular theme has been the recognition and classification of settlement forms or types, beginning with the work of Lord Rennell of Rodd and Jovan Cvijic (Fig.1) but reaching its fullest and most recent elaboration in a study published by Beuermann (Table 1).

Table 1: Beuermann's Classification of Settlement Types

	Temporary Settlements	Permanent Settlements	
1. 2.	Winter Settlements	1. Clustered Villages compact loose malachi estate colonisation	
		2. Street-and-Line Settleme	nts
		3. Hamlets	
	·	4. Isolated Farmateads	
		5. War or Defensive Settlem	ents

mesettlements which appear to have developed from the coalescence of originally separate groups of houses, each associated with a clan.

The morphological development of individual settlements, however, has been generally neglected, perhaps because of the difficulties posed by a lack of settlement plans from the past and the absence of detailed written surveys; period reconstructions can be attempted only by architectural and typological analysis. By contrast, some attention has been given to settlement pattern analysis. Generally, this has been conducted in terms

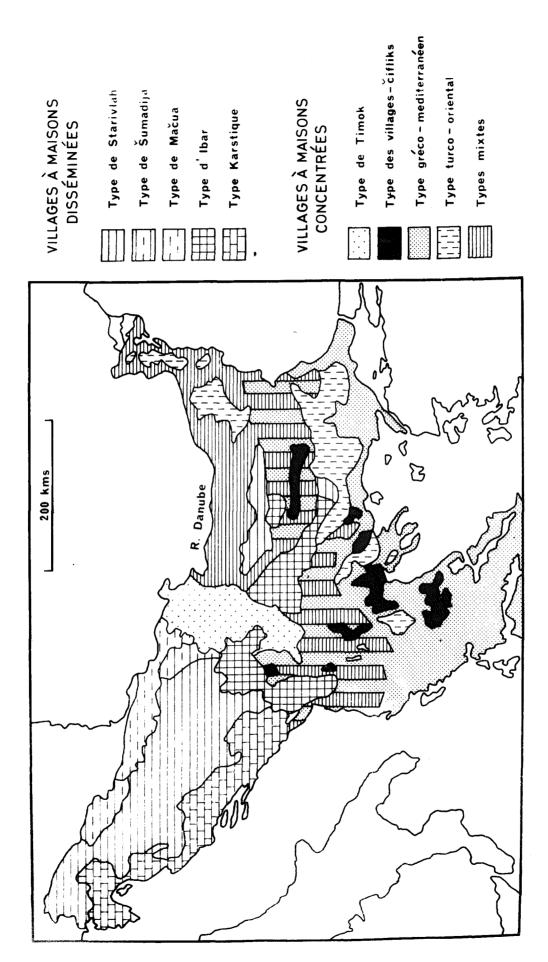


Figure 1: Distribution of Settlement Types, According to Cvijić

of their associations with particular types of terrain, height zones and water supply. The geometry of settlement patterns, however, has not been investigated, partly because this is a comparatively new development within the study of settlement geography. Although Kirsten described changes in the distribution of settlements in Central Greece and Attica. little has been done to trace the long-term evolution of settlement patterns elsewhere in the country, despite its manifest importance to the understanding of the alleged retreat phase in the history of population and settlement in the country. The present study attempts to remedy the situation on a small scale.

The Investigation

The study outlined in the following pages has traced the development of settlement patterns in the Mani, one of the major retreat regions of Greece. Itasked to establish what actually happened in the settlement history of the peninsula from the initial occupation before 3000 B.C. down to about A.D.1830. The period is sufficiently long for the development of the retreat process to be discerned, if it existed, and it is concluded by an event which may mark the beginning of the ebb tide, the period when people began to settle in the lowlands again. Scattered revolts, which coalesced into the War of Independence during 1821, removed the Turkish owners of large lowland estates from which the mountain communities had often rented land. The few Turkish farmers and tenants were also driven out. Squatter-rights and then formal legal titles were easily established during and immediately after the war. It was under these conditions that old kalyvia-villages on the margins of the lowland and out towards the centres of the plains first became permanently occupied, a process already complete in some parts of the Peloponnisos by the end of the nineteenth century and initiating the slow death of many upland communities. 20

^{*} Kalývia are literally "huts", and clusters of these temporary structures were used by people whose permanent home was in the mountains or some distant place when they were wintering their animals or engaged in farming. They were usually named after their parent village.

Although the Mani's customs, social organisation and reputation for fierce resistance to the Turks have generated a large literature. embracing the major European languages as well as Greek, the region's settlements have not been systematically investigated. A few geographers have commented on the remarkable number of settlements (about 225) concentrated into an area of 493 kms. The settlements are generally very small, often consisting of fewer than 10 gaunt, two-storey houses. whilst the population of the average oikismos* in 1961 was about 135. one of the lowest in Greece. The domination of many settlements by towers (Frontispiece) has occasioned much comment, and Beuermann even recognised the Wehrsiedlung ("War" or "Defensive Settlement") as a settlement type unique to the Mani, though, in fact, towerless settlements were also found in the region during the early nineteenth century, as well as today.

Mani has two main advantages. The first is that, since the early seventeenth century, several writers have quite specifically associated the region with 25 the retreat of population, particularly from neighbouring parts of the Peloponnisos and at the time of the Turkish conquest virtually completed about 1460. The second advantage is that many features of the present settlements are relicts from a past age. The characteristic towers, for example, were associated with a stratified society which went into decline in the period 1850-40 following the achievement of Greek independence and the slower integration of the Mani into the new kingdom. The region was one of the first on the Greek mainland to experience depopulation and



^{*} A lower order administrative unit, a subdivision of a kinotis (commune) or demos ("urbanised area"). The study region is divided into 150 oikismi.

the continuing loss of people (Fig. 2) has left behind settlements adapted to a relatively high density of population (average of 67.9/km.² 26 at the peak in 1907 compared with a national average of 41.7/km.²). Accordingly, examination of the settlement pattern ought to reveal something of past conditions in a more direct way than might be possible elsewhere in the country. However, the region's relative remoteness has meant that the available source material is relatively poor. Sources are discussed and evaluated in the next chapter. Chapter 3 outlines the methodologies developed to use these materials in the reconstruction of settlement patterns and the tracing of developments through time. A description of the region is postponed until Chapter 4 since it links directly with the results of the main investigation reported in Chapters 5 to 8.

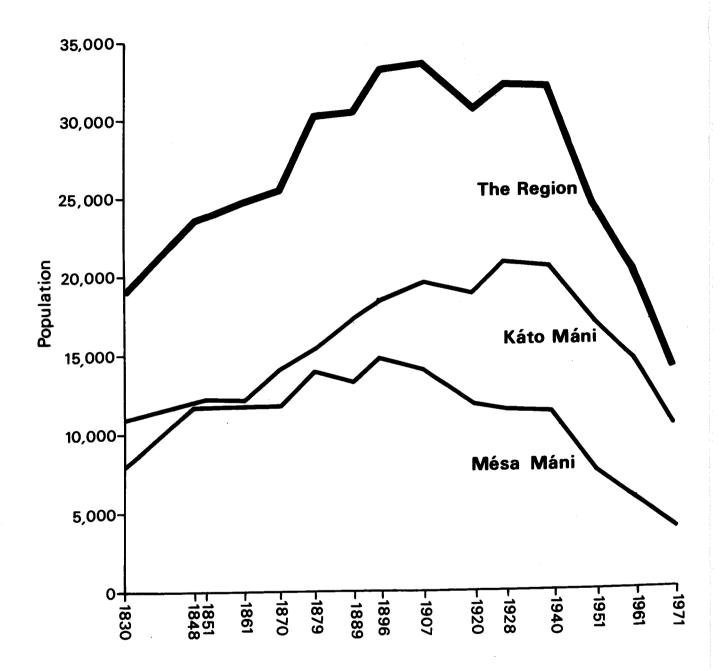


Figure 2: Population of the Mani, c.1830-1971

References

- Naval Intelligence Division, Geographical Handbooks, Greece, Vol.2, (London, 1943), pp.1-5; J.M. Wagstaff, Rural Migration in Greece, Geography, 53 (1968), pp.175-79.
- 2. National Statistical Service of Greece, Statistical Yearbook, 1966.

 (Athens, 1967), Table 10, p.36.
- 3. R. Common, Some Recent Developments in Greece, <u>Tijdschrift voor</u>

 <u>Economische en Sociale Geografie</u>, 49 (1958), pp.253-66.
- 4. H. Lehmann, Zur Fluchlingsiedlungen in Griechenland, Zeitschrift der Gesellschaft für Erdkunde zu Berlin, 1929, pp.113-22; F.Papenhausen, Die Neubesiedlung Griechenlands, Zeitschrift der Gesellschaft für Erdkunde zu Berlin, 1933, pp.34-51; D. Pentzopoulos, The Balkan Exchange of Minorities and its Impact upon Greece, Social Sciences Centre, Athens, (Paris and The Hague, 1962); J.H. Schultze, a. Neugriechenland. Eine Landeskunde Ostmakedoniens und Westthrakiens mit besonderer Berücksichtigung der Geomorphologie, Kolonistensiedlung und Wirtschaftsgeographie, (Gotha, 1937); b. Greek Colonisation in Thrace and Macedonia, Scottish Geographical Magazine, 53 (1937), pp.81-89.
- 5. A.A.Pallis, Greece's Anatolian Venture and After, (London, 1937).
- 6. F.W.Carter, Population Migration to Greater Athens, <u>Tijdschrift voor</u>

 <u>Economische en Sociale Geografie</u>, 59 (1968,) pp.100-105;

 G. Papageorgiou, Growth of the Capital of Greece, <u>Ekistics</u>, 24 (1967).

 pp.64-71.
- 7. Common, op.cit.; Wagstaff, op.cit.
- 8. A.E. Vacalopoulos, La retraite des populations greques vers les régions eloignées et montagneuse pendant la domination turque, Balkan Studies, 4 (1963), pp. 263-76.
- 9. C. Vita-Finzi, The Mediterranean Valleys, (Cambridge, 1969)
- 10. Comparative material in, for example, J. Cvijić, La Péninsule balkanique:

 Géographie humaine, (Paris, 1918), pp.127-31; F.E.I.Hamilton, Yugoslavia:

 Patterns of Economic Activity, (London, 1968), pp.15-18; G.W.Hoffman,

- Transformation of Rural Settlement in Bulgaria, Geographical

 Review, 54 (1964) pp.45-64; M.A.Lefevre, La Zadruga, Annales de

 Geographie, 39 (1930) pp.316-20.
- 11. Vacalopoulos, op.cit.
- 12. H. Antoniadis-Bibicou, Villages désertés en Grèce un bilan provisoire, in Ecole Pratique des Hautes Etudes Vie Section, Centre de Recherches Historique, Les Hommes et la Terre, XI, Villages Désertés et Histoire Economique XIe-XVIIIe Siècles, (Paris, 1965), pp.343-417.
- 13. See Bibliography under Settlement Study Greece. A general review of the literature down to August, 1968, will be found in J.M. Wagstaff, The Study of Greek Rural Settlements: A Review of the Literature, Erdkunde, 23 (1969), pp.306-17.
- 14. R. Rodd, The Customs and Lore of Modern Greece, (London, 1892) pp.55-81.
- 15. Cvijie, op.cit.
- 16. A. Beuermann, Typen ländlicher Siedlungen in Griechenland,

 Petermanns Geographische Mitteilungen, 100 (1956) pp.278-85.
- 17. For example, A. G. Ogilvie, Physiography and Settlement in Southern Macedonia, Geographical Review, 11 (1921), pp.172-97;

 A. Philippson, Der Peloponnes, (Berlin, 1892) pp.580-96.
- 18. D.W.Harvey, Models of the Evolution of Spatial Fatterns in Human Geography, in R.J.Chorley and P. Haggett (eds.), Models in Geography (London, 1971), pp. 549-608.
- 19. E. Kirsten, Breitage zur historischen Landeskunde ..., in

 A.Philippson, Die griechischen Landschaften, (Frankfurt am Main),

 Vol. 1 (1950), pp.259-308; Vol.1, Pt.2 (1951), pp.645-744;

 Vol. 1 Pt.3 (1952), pp.971-1069; Vol. 2, Pt. 1 (1956), pp.202-90;

 Vol. 2, Pt. 2 (1958), pp.558-62. These studies are absent from

 Vols. 3 and 4 fealing with the Peloponnisos and the Aegean Islands respectively.

- 20. A. Beuermann, Kalyvien-Dorfer im Peloponnes, in <u>Brgebnisse und</u>

 Probleme moderner geographischer Forschung. Hans Mortensen zu

 Seinem 60. Geburtstag, (Bremen, 1954), pp.229-38; A. Philippson,

 Der Peloponnes, (Berlin, 1892), pp.580-96.
- 21. See Bibliography under The Mani
- 22. For example, Naval Intelligence Division, Geographical Handbooks, Greece, Vol. 3. (London, 1943) pp.199-202; P. Vidal de la Blache et L. Gallois, (eds.), Geographic Universelle, T. 7, Mediterranée.

 Péninsules Méditerranéennes, Pt. 2, (Paris, 1934), pp. 553, 573.
- 23. B. Kayser, <u>Geographie humaine de la Grèce</u>, Centre des Sciences
 Sociales d'Athènes, (Athens, 1964), pp.19-21; Office National
 Statistique, <u>Population de la Grèce au Recensement du 19 Mars</u>, 1961,

 (Athens, 1962) pp.121, 125
- 24. A. Beuermann, Typen landlicher Siedlungen in Griechenland,

 Petermanns Geographische Mitteilungen, 100 (1956), pp.278-85.
- 25. Vacalopoulos, op. cit.
- 26. National Statistical Service of Greece, <u>Statistical Yearbook</u>, <u>1971</u>, (Athens, 1972), <u>Table II</u>: 1, p.18; Μ. Χουλιαράκη, <u>Γεωγραφίκη, Διοικητίκη καί Πλησυσμιάκη Ἐξέλιξις</u> της <u>"Ελλάδος, 1821-1971</u>, Τ. 1, μ. 2, Ἐθνικόν Κέντρον Κοινωνικών Ἐρευνών, (Athens, 1974), pp. 301-04.

CHAPTER 2 : SOURCE MATERIAL

Introduction

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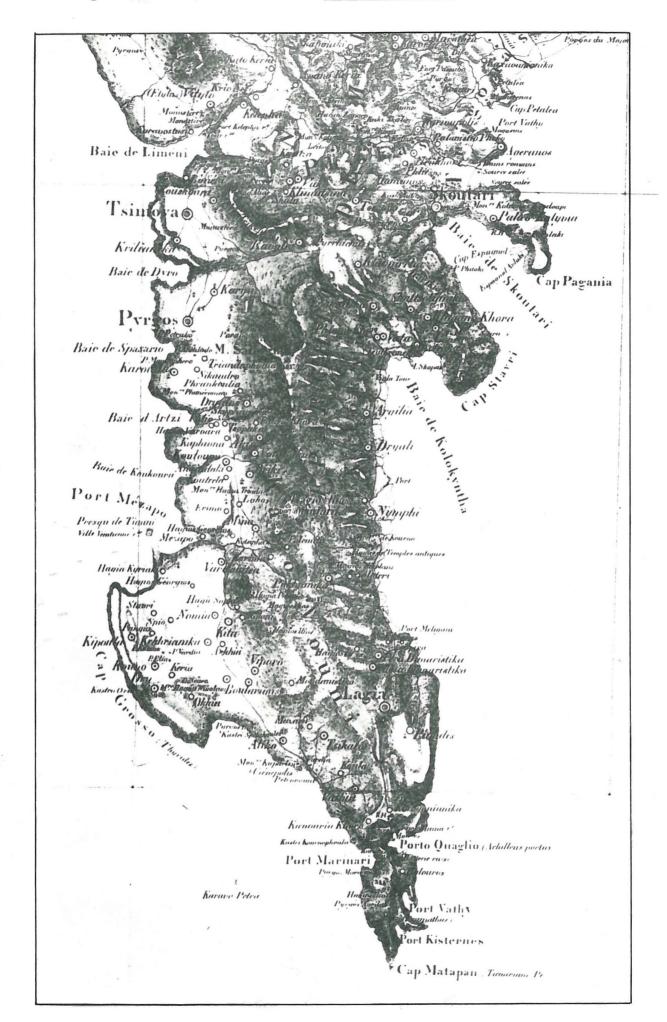
Developments in settlement patterns must be traced by historical inquiry. Success is dependent upon, first, the availability of information about the settlements in existence at particular stages in time and, secondly. upon being able to locate the settlements as accurately as possible upon maps of a scale suitable for worthwhile spatial analysis. Classic work in settlement geography, such as that of Demangeon, emphasised the influences exerted by social and economic conditions on settlement patterns. I This opinion has not been overturned by more recent research and theorising. Thus, any settlement may be viewed as the centre of an economic enterprise, or group of enterprises, and the form of the economy may have conditioned the distribution of settlements in a region and, to some extent, their detailed siting. Similarly, social organisation may find expression in the spatial arrangements of settlements and will certainly X or na vera be influenced by their pattern. Changes in socio-economic structures might be expected to have repercussions on the geometry of settlement patterns and on the precise location of individual settlements. These heuristic considerations directed research towards the recovery of historical information which would o other allow the reconstruction of socio-economic/conditions, as well as the recreation of successive settlement patterns in the Mani.

Sources for Reconstructing Settlement Patterns in the Mani

Early Nineteenth Century

The most reliable source of settlement information was produced immediately after the Greek War of Independence. It consists of a topographical map of the Morea (Pelopónnisos) published on a scale of 1:200,000 and a population enumeration of the province. Both were the work of the Commission Scientifique de Morée and its team of geographical engineers and surveyors sent to join the French expeditionary force in the Morea in 1829 with the responsibility for producing a study comparable with the monumental Description de 1'Egypte. The map is of first importance to the present study. Not only did it mark and name

Figure 3: The Mani Sheet of the Carte de la Morée



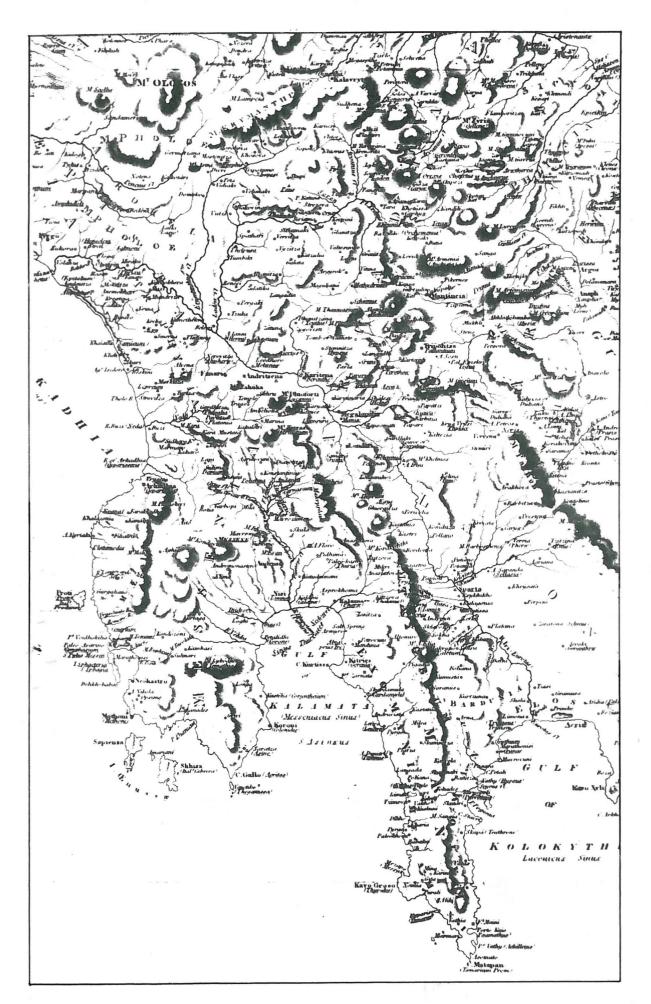


Figure 4: Part of Leake's Map of the Morea

Figure 5: Part of Barbié du Bocage's Map of the Morea

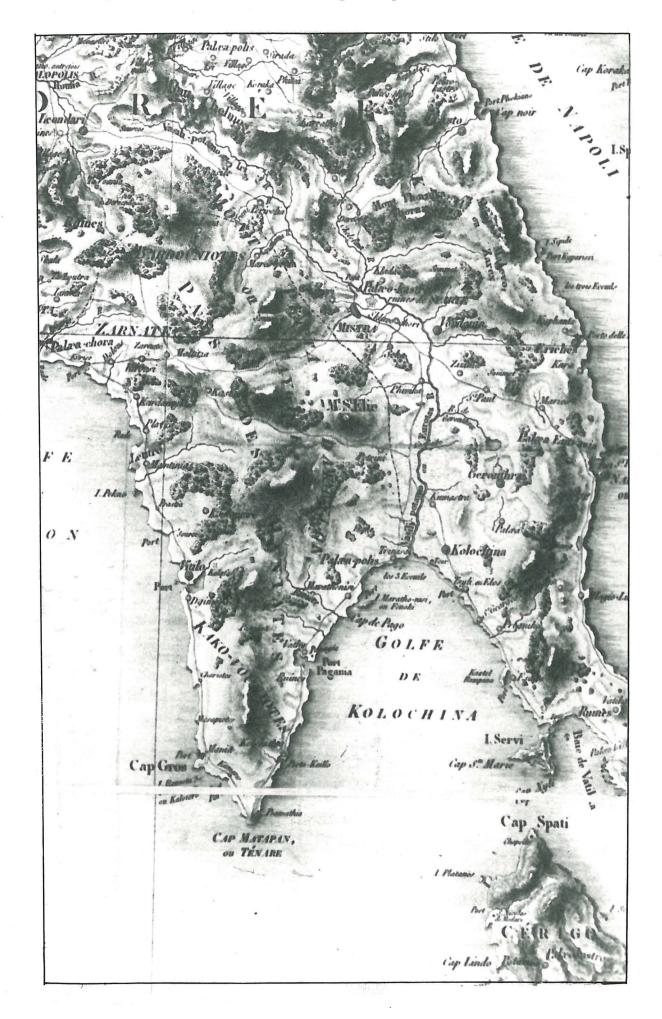
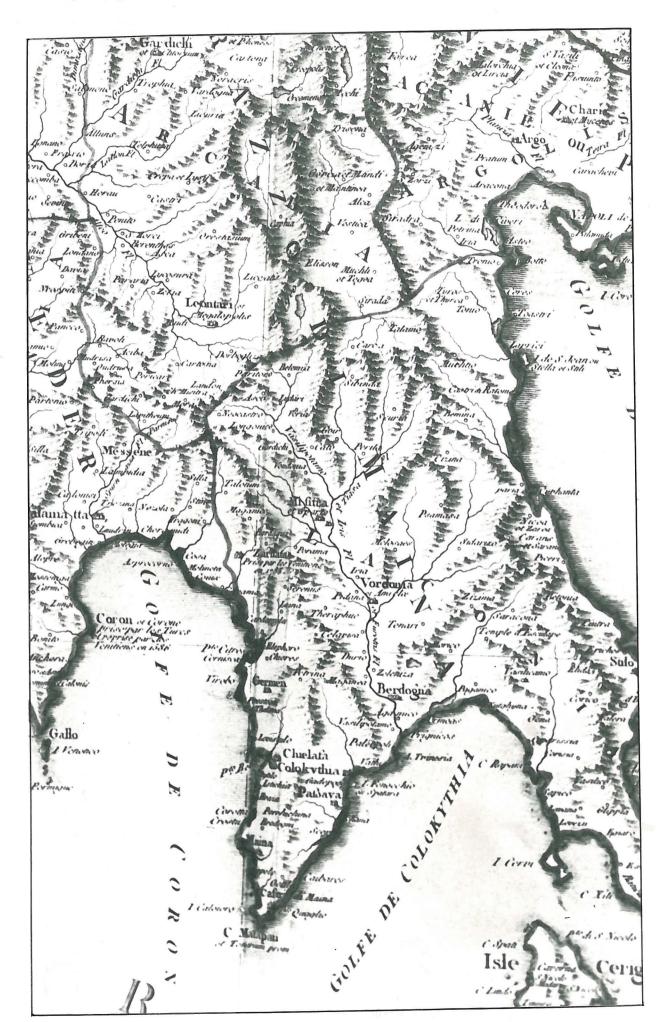


Figure 6: Part of Dupuis' Map of the Morea



settlements, but it also distinguished bourgs, villages, hameaux and pyrgi ("towers") and showed routes. A foundation in careful triangulation gives one confidence in the map's general accuracy, whilst Leake, who had completed his own carefully prepared map about the same time, accepted the superiority of the Commission's work with only minor quibbles, mainly about the spelling of names. 5 Simple visual comparison with maps produced over the previous thirty years abundantly confirms his opinion. (Figs. 3, 4, 5, 6). Careful analysis of these earlier maps reveals a striking confusion of ancient, modern and probably fictitious names, 6 often inaccurately placed on coastal outlines borrowed from even earlier work. Such errors were inevitable to some extent because of the difficulties of surveying in Turkish dominions during the eighteenth and nineteenth centuries, as well as the precarious economics of the map trade. Comparison of the Commission's map with more recent maps shows that the settlements are accurately located in the main, though the necessities of scale resulted in the plotting of the almost contiguous settlements of Apanoand Kato-Kouloumi and Apano-and Kato-Dry as single settlements - a convenience which is maintained in the present study. The eleven settlements which are marked on the map but not mentioned in the enumeration have also been retained, since it is probable that their populations were included under neighbouring settlements. There was another minor discrepancy between the map and the enumeration. The former showed a settlement called Bulouros which should almost certainly be identified with the place called Porto-Quaglio in the enumeration. None of these discrepancies raise serious problems, and the Carte de la Morée forms the basis for the study of settlement pattern change in the Mani over the whole period from 3000 B.C. to A.D. 1830.

Apart from providing a kind of check on the map, the contemporary population enumeration has been used in an attempt to understand settlement clustering. It is not clear from the introduction to the published tables how the original data were collected. Various statements made there, however,

may be taken to imply that information was furnished by local "arkhontes" ("primates", "leaders" or "elders"), who would have been in a position to provide it because one of their responsibilities under the Turkish raj was to divide communally assessed taxes amongst the various families in their villages. The Maniat figures were all in number of families and are clearly estimates, as is shown by recurring figures and aggregated totals for three pairs of settlements. Average family size for the Morea, computed at 4.75 persons by the Commission, must be used as a multiplier to derive actual population. When this is done, the resulting total of 29,037 for the whole of the Mani is remarkably close to the estimate of 30,000 given to Leake at Marathonisi in 1805 and not very different from the 34-36,000 suggested by Pouqueville but ultimately derived from British estimates of 1813. The context of an immediate post-war situation makes the correspondence suspect, but may indicate that the Commission's figures are sufficiently accurate to be used for the limited purposes required by the present study.

A rather curious Greek source which became available about the same time as the results of the Commission's work in a partial transcription and translation published by Leake is "a poetical description of the Mani". 10

This was written by a Maniat school teacher called Nikitas Niphakos (c.1750-1810). 11

The poem has 314 lines composed in the popular dekapenta-sillavas metre 12 used for such famous Greek classics as Digenis Akritas and Erotokritos. After a brief general account of the region, the poem moves into a descriptive catalogue of some 117 villages which occupies about a third of the work. This seems to have provided Leake with a check-list of the settlements in the Mani, but he soon discovered that there were more names and that the poem was an imperfect guide. 13 It is an interesting and amusing source, but of little practical value to the study of settlements. However, the description of the harsh life of the Kakavoulites, which concludes the poem, gives some useful insights into socio-economic conditions in the south of the region, even if the picture is a somewhat exaggerated outsider's view.

Late Seventeenth Century

Moving backwards in time, the next source which provided information with which to reconstruct Maniat settlement patterns was Antonio Pacifico's Breve Descrizzione Corografica del Peloponneso o' Morea, 14 published a few years after the conclusion of the brilliant campaigns of 1685-87 by which Venice had conquered the Morea from the Turks. The book is not unlike an early systematic regional geography, with its lists of mountains and rivers, brief descriptions of the four Venetian provinces and an outline of ancient history. In the first edition, the account of the territoric composing a province was followed by a list of settlements. Similar lists appeared in the second edition but consolidated into an appendix. 15 Attribution of this list to the engineer, Guisto Albergheti, "supraintendente al Catastico di Morea", immediately indicates that it was drawn from the official work of the cadastral survey set up by the Serene Republic in 1687 to make a census of the population, properties and resources of the newly acquired Kingdom, as well as to assess taxes, establish land titles and distribute state land. 16 Taken as a whole, the second list is certainly more complete than the lists in the first edition of Pacifico's book. For example, names for Corinthia were included, whereas they were absent from the first edition.

There are grounds for suspecting the accuracy of the list, despite a greater number of names and its official origin. First, minor discrepancies exist between the first and second editions of Pacifico's work. In the first edition, 48 names were assigned to Territorio Maina Bassa 17 (roughly the region studied here), whilst the second edition listed 38. Imprecise delimitation of the Venetian territorii may be at fault since most of the 10 settlements can be traced in the second edition's list for Territorio di Zarnata (roughly 'Exo Mani), though some cannot be found at all. More serious is the appearance of 8 names in the first edition which cannot be traced in the second edition, even though 4 of them can be tentatively identified with settlements appearing in later sources. Finally, comparison with an early seventeenth century list (below) suggests that the

Selectivity

lists of redlead a method. 20.

Venetian surveyors did not note the names of all the settlements inhabited c.1700. The list in the second edition of Pacifico's work contains 70 names under the Maniat territori. Another 8 can be added from the first edition to give a total of 78. This compares with a minimum of 125 for the whole of the Mani given in the early seventeenth century source. The difference of 47 might be explained by desertion resulting from the Turko-Venetian War of 1685-87 and the plague which accompanied its later stages and, apparently, remained virulent longest in the Mani. However, a Venetian document of about 1702. which clearly has the same official origin as the lists in Pacifico's second edition, records only 14 deserted settlements in the whole region, whilst giving a total of 69 inhabited places. 18 Thirty-three settlements are still unaccounted for. Many of these appear in the Commission Scientifique's work and, though reoccupation after a phase of abandonment is possible, there seems every reason to suppose that Venetian information on the Mani was inaccurate. An independent check might have been provided by the Turkish survey of the recaptured province made in 1715, but this was not available for consultation. 19 Nonetheless, some use will be made of Pacifico's lists in Chapter 7, but they will not form the basis for a discussion of settlement patterns around 1700.

Early Seventeenth Century

The early seventeenth century source mentioned above is one of a group of documents produced as a result of the attempt by Charles de Conzague. Duc de Nevers (1580-1637), to involve the Mani in his bid to revive the Greek Empire with himself as Emperor, a position to which he did have some claim. 20 documents include an Agreement made between the Duke and the Maniata about 1612, the substance of which is contained in an undated document and a memorandum dated 1615; a group of letters from the Maniats to the Duke, three written in 1612 and the other apparently in 1618; 22 two sets of Instructions to the Duke's agents who visited the Mani in 1618; 23 and the three reports (Documents A.B. and C) apparently produced by Philippe de Chateaurenault and Petros Medikos on their return. 24 Associated with these are the text of a speech on the Maniats delivered by the Duke at Tours in 1619, and an anonymous memorandum of the same date,

probably intended for the French king. 26 It is the third report (Document c).27 which is of prime concern here.

The document was headed, in Italian, "The number of hearths (fuochi) in the villages from Calamata as far as the Cape of Mayna (Matapan) returning through Colochitia as far as Passava, in the above mentioned territory ... ". Then followed a list of 125 settlements, accompanied by a note of the number of "hearths" in each and occasionally by a qualitative statement about the settlement, for example, "Charlopoli, the bishop's seat". The total numbers of settlements and "hearths" were given at the end of the list and an estimate of 10-12,000 combattenti calculated. This list was followed by another one of "38 villages which are in the vicinity (vicini) of Braccio di Mayna, in the mountains, under Turkish rule, from Passava and Bardugna castles as far as Londari, called Christianopoli". Although no estimate of the number of "hearths" was given, some of the settlement names were followed by descriptive notes which indicate, for example, that Londari was a "Turkish town", despite its alternative name of "Christianopoli" in the heading, and that Bisbardi had an Albanian population (Albanesi). The whole document concluded with a statement that there were many other unnamed villages in the mountains which were prepared to take up arms with the districts of Braccio di Mayna.

There is no indication in the document itself of the way in which it was compiled. Buchon suggested that Petros Medikos, a Maniat, was responsible.

But how did he obtain his information? A likely explanation is that, either directly or indirectly, Medikos gained access to Turkish <u>daftar-i</u> (statistical registers). This is suggested in two ways. Most of the settlements listed in the document lie within or just beyond the traditional frontiers of the Mani. The distribution may suggest, like the headings, that they belonged to a single administrative district. It is these same settlements for which the number of "hearths" was given. The number of "hearths" or "households" was one of the types of information periodically enrolled in the <u>daftar-i</u> by Turkish administrators. If the argument is correct, then, the data in <u>Document C</u> may be judged to be reasonably accurate. However, omissions of at least two

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settlements, Mari and Zygos, which are mentioned in <u>Letter IV</u> of the Nevers's sources of indicates some degree of error in the source, but its extent cannot be gauged. The methods used to reconstruct a settlement pattern from the Nevers' data will be outlined in the next chapter.

Middle Ages

No similar source seems to be available for any earlier period, though something may be learnt about the late second century situation from a combination of material in Pausanias' Description of Greece and the results of archaeological surveys. Some 24 Turkish daftar-i exist for the Morea for the period after c.1500, 31 but these have not been transcribed from the siyaget script, half cipher and half shorthand, in which they were kept and so were not available for study. Byzantine praktiká, abstracts from official cadastral surveys of a province made for the owners of larger estates, do not appear to have survived from the southern Pelopónnisos, unlike Macedonia, 32 and so that potentially rich source of information is dry. Some settlement names, however, can be gleaned from a variety of documents originating during the Middle Ages. For example. Venetian lists of places won and lost in the Morea during the Turko-Venetian War of 1463-79 scarcely constitute a full list of settlements in the province, though they note a few places in the Mani. 33 A list of hearths belonging to the different fiefs in the Principality of Achaia. compiled in 1391, noted the association of 40 hearths with Le Meyne, but did not otherwise locate them. The revenues granted to Nicolas Acciaiuoli in 1336 came from settlements on the west side of the Mani, but the place names cannot be regarded as indicating the totality of settlements in the region. 35 Altogether 13 names have been discovered for the study region from these sources, though not all of them could be identified with later settlements or otherwise accurately located. (Table 9). A few more names can be added from Albanian and Slav place names which, if genuine, must have originated in the fifteenth century and sixth/eighth centuries respectively (p. 132).

The broad pattern of settlement before the middle of the thirteenth century is probably indicated by the distribution of Byzantine churches in the region, but not the precise location of any settlements. Not all the possibly medieval churches have been studied by scholars competent in the subject. partly because the simplest churches are often difficult to distinguish from secular buildings, almost impossible to date and intrinsically uninteresting to the study of evolution in church architecture or wall painting. Those churches which have been discovered and assigned definitely to the Middle Ages are comparatively few in number and confined to the western part of the region. 36 Even these are not necessarily related to secular settlements in any direct spatial sense. At least two of them belonged to monasteries and, though both are close to settlements today, there is no information about their original relationships. Several other churches are situated well away from modern settlements and, though such a situation might suggest settlement desertion in England, there need not have been close spatial relationships to settlements at all in Greece. Church-building is encouraged by the prayers said specifically for the founders at every celebration of the Orthodox Liturgy 37 and, though it is true that the Liturgy cannot be celebrated by a priest alone, 38 the requirement of a congregation could have been met by having a celebration only on the feast of the patron. In any case, Maniat churches were clan rather than community property in the early nineteenth century, 39 and this may have been the situation in the Middle Ages, thus casting further doubt on any hypotheses about churches and settlements being spatially related. Once this is accepted, the conclusion is inevitable. There is practically no information with which to reconstruct settlement patterns between the late second century and the early Tunkir! seventeenth century.

Cartographic Sources

Reference should be made to one obvious but discarded geographical scurce - maps. Although some names have been identified in medieval portolans, 40 the associated portolan charts proved as disappointing as later charts and maps, and largely for the same reasons. Portolan charts were drawn for the specific

purpose of helping navigation and, in consequence, tended to mark only a few prominent, generally coastal settlements. There is no way of knowing whether these are genuinely contemporary names because of the various strata of information which were built into portolans over the years. Thus, Maina is frequently named, but there is no sure way of knowing that a settlement or fortress of that name actually existed when a given chart was prepared. The plotted location varied so enormously, too, that its position in the region is also uncertain. Those charts which cover the Mani were drawn at scales which were far too small for them to show more than a few names, unlike Spratt's splendid nineteenth century charts of Crete.

Two groups of later charts and maps were studied specifically to see if collectively they could form the basis for period reconstructions of settlement patterns in the Mani. The first group covered the period 1686 to 1717 and the other 1569 to c.1630. Overall distortion of the peninsula's shape was common to all the maps considered. (Figs. 7 and 8). This arose generally from compression due to the use of inaccurate coordinates. especially in the longitude component. The detail of the coastline was usually schematic rather than accurate, perhaps reflecting ignorance arising from the difficulties of navigation around the Maniat coast, a preference for the direct route across the Gulf of Messinia and probably the small amount of navigation in the Gulf of Lakonia. But all the maps mark a number of settlements in a region roughly delimited by Kalamata and Mistra in the north and the Xyli peninsula in the east. There were 54 names in the first set of maps and 71 in the second. though individual maps had space for comparatively few names. Variations in the number and spelling of names were common, but these could often be reconciled by filling all names into a matrix. Identification of the names with known settlements of earlier or later date proved fifficult or impossible. Many of the place names were taken from such ancient authors as Strabo and Ptolemy. though sometimes they were also given a modern identification. These identifications were frequently erroneous, but, even where they were correct, it is not clear whether the site was still being occupied. This would be

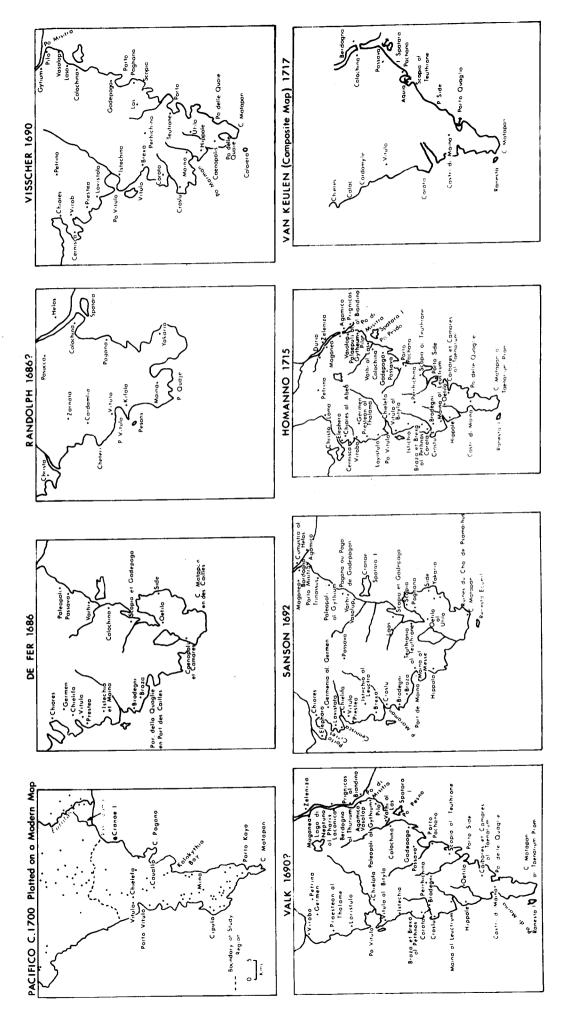


Figure 7: Comparison of Maps Published 1686-1717

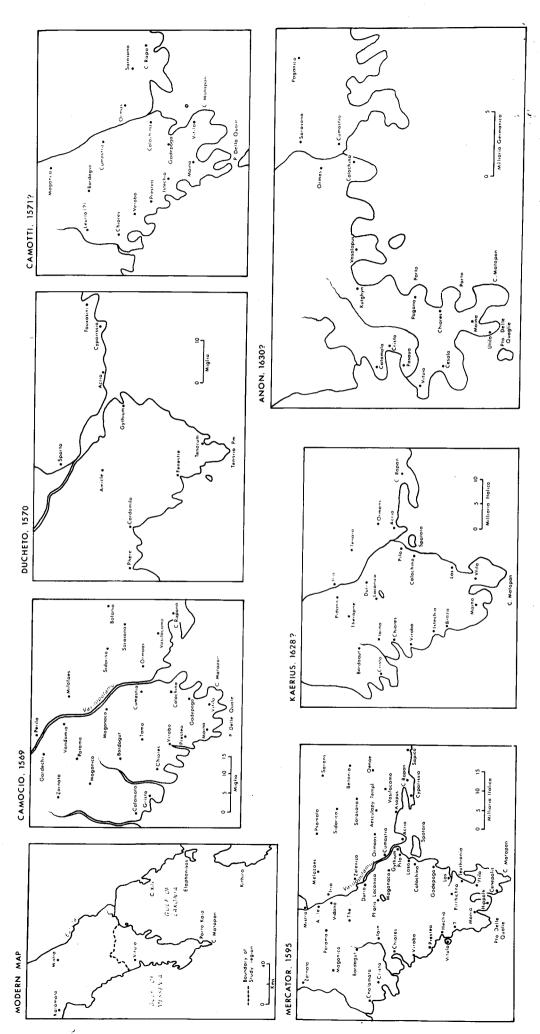


Figure 8: Comparison of Maps Published 1569-c.1630

crucial information in tracing the history of occupation on a site such as that of ancient Gythium / early modern Marathonisi / modern Yithion. The ancient site is often identified, correctly, with Palaeopoli, a rather dispersed suburb of the modern town, but did some form of occupation continue there during the sixteenth and seventeenth centuries and before the foundation of Marathonisi some distance to the south in the eighteenth century? There is no certain way of knowing from the cartographic evidence. Other names appear to be genuinely contemporary with the maps, but the various sources often disagreed about their location, partly because of the small scales on which they were plotted. This is not too serious where names can be identified with settlements known from, say, the early mineteenth century, but it becomes serious in other instances. For example, three names from the second set of maps can be identified with names in the Nevers' list (Table 2), but these settlements cannot otherwise be identified.

Table 2: Comparative Names

Map Names	Nevers' Names		
Braza	Bragia di Cholochitia		
Colochina	Castro di Cholochitia		
Gađepoga	Giorgicio-poulo di Cholochitia		

These names are associated with a settlement variously known as Colochina and Cholochitia which, from its size and use as a regional name in the Nevers' document, was obviously an important centre (pp. 55f). Yet, there is no agreement in the cartographic sources on its location, though other evidence indicates that it should probably be identified with modern Kotronas. But was it Kotronas, or one of the other large settlements in the neighbourhood, such as Phlomokhori, Vata or Loukadika? These and the other problems mentioned above are sufficient to make the cartographic evidence almost impossible to use

in reconstructing settlement patterns for any period.

Antiquity

No maps of Greece are known to have survived from antiquity, but the Description of Greece compiled about A.D. 174 by Pausanias provides some information on settlements in the Mani. The work is a kind of tourist guide which, after the experiments of book one, follows a systematic plan in presenting material. An outline history of each of the traditional regions of central and southern Greece preceded an ordered description of its capital. This was followed in turn by a description of the surrounding territory arranged as itineraries along the principal roads leading outwards from the capital. 46 Places are mentioned for two reasons. Some were named because they contained some notable ancient monument or some important work of art. Others were mentioned because of their associations with a peculiar custom or belief. or some notable figure from the past, human or divine. Clearly, then, Pausanias is unlikely to have mentioned all the settlements existing during the late second century. This is especially the case with the Mani. since his description suggests an itinerary involving a coasting voyage from Teuthrone around Cape Taenarum (Matapan) and then northwards (Fig. 9). 47 Nonetheless. the list of 16 probable settlement names identified with the region is the fullest to have survived from antiquity. Strabo (c.64 B.C. - A.D.19) mentioned seven, whilst six were listed in the so-called Geography of Claudius Ptolemy 49 and four or five appeared in that other famous compilation, the Periplus of Scylax. 50 (Table 3).

Modern scholars and travellers have put considerable effort into identifying the names given by Pausanias with ancient remains found in the Mani. Using the evidence of distances in <u>stadia</u> and the topographical detail provided by Pausanias in conjunction with the direct testimony of coins and inscriptions found locally, almost all the sites have been identified. The identifications are now generally accepted. However, archaeological exploration has produced a number of Roman-period sites which cannot be assigned ancient names, notably

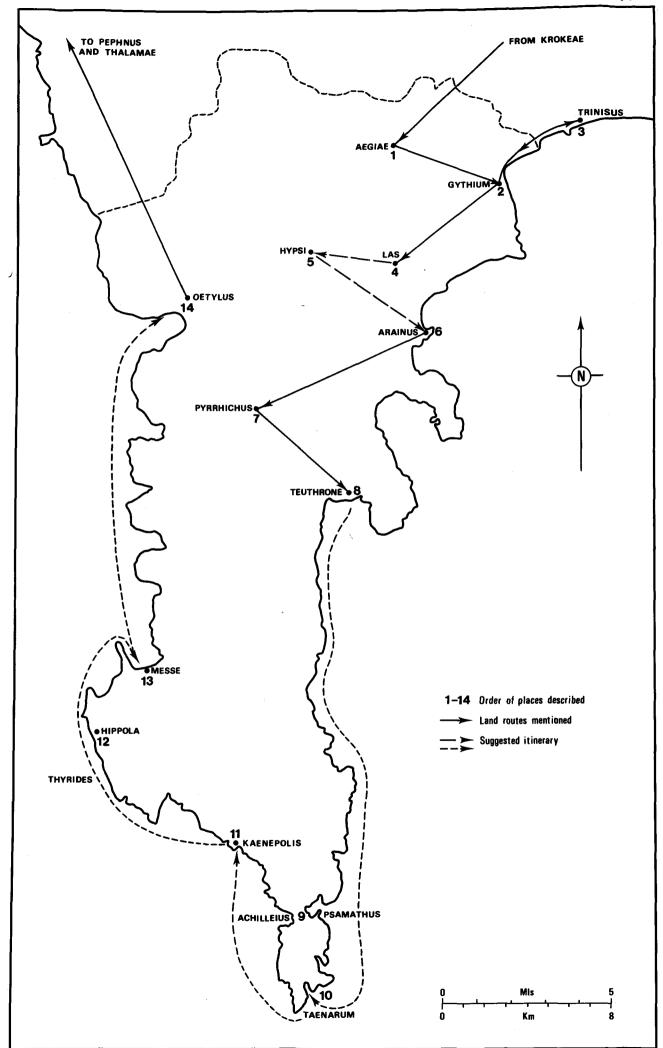


Figure 9: Schematic Representation of a Possible Itinerary in the Mani from Pausanias

Table 3: Place Names in Antiquity

Pausanias (c.A.D.174)	Ptolemy (late compile- tion.)	Strabo (c.7. B.C.)	Scylex (4th cent., B.C.)
Achilleus			Achilleus
Aogiae	••	Aegeae	- ,
Arainus	**************************************	Asine	
Gythium	Gythium	Gythium	Gythium
Hippola	**	•	
Hypsi.		-	•
Kaenepolis	Kaeni	•	•
Kranae		•	
Las	Las	Las	Las
Nessa.		•	**
Migonium		•	-
Oetylus	 Bityla	Oetylus	
Psamathus	•	Psamathus	Psamathus
Pyrrhichus		**	•••
Taenarum	Taenarum	Taenarum	?Taenarus
Teuthrone	Teuthrone		* ************************************
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the temple and settlement site below Kourno on the east coast and the miscellaneous traces of antiquity found near Kouloumi on the western side of the peninsula. (Fig. 10). The remains at Kouno in the 'Embros can be explained best by assuming that they belong to a settlement which developed subsequent to the abandonment of Hippola (probably 'Ano Poula on the Makryna Ridge), which Pausanias himself described as ruined. More ancient sites probably remain to be discovered, despite some 150 years of exploration in the region. Ground exploration is extremely arduous in such mountainous terrain and small traces might be missed easily amongst all the loose stones, whilst even

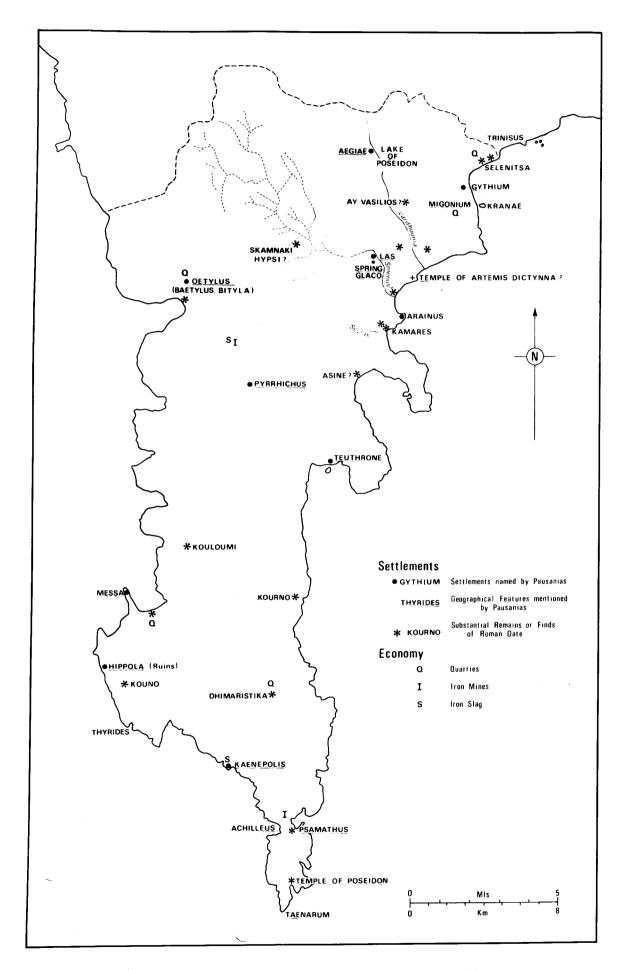


Figure 10: Settlements in the Study Region, c. A.D. 174

quite substantial remains have disappeared in a space of time as short as fifty years. Aerial photography almost certainly would produce valuable results, but its use has been circumscribed by official secrecy.

Traditional archaeological field work initiated by Mrs. Waterhouse and completed by Mr. Hope Simpson provided evidence for settlements in the Bronze Age. 52 The methodology was not described in the published reports, but internal evidence suggests that all the known ancient sites were inspected for traces of prehistoric occupation. Reference to finds in the Vardhounia valley and comments on the absence of prehistoric material from the area between ancient Las and Teuthrone, as well as from the Kritiri peninsula in the far south of the region, suggest that other localities were searched. The authors did not reveal how thorough their search had been, but it is unlikely that the whole area of some 493 kms. was covered. Indeed recent finds in and near the caves of Dirou on the north-west coast of the Mani indicate that more prehistoric sites are likely to be found in the future. 53 A few of the Bronze Age sites already known have been identified with places mentioned in the Homeric Catalogue of Ships, possibly a genuine survival from the Mycenaean age. 54 A few Homeric sites have been located through Pausanias place names alone and prehistoric occupation has yet to be proved by excavation. Clearly, the data for this distant period are very incomplete and inaccurate. but, since they indicate something of the beginnings of settlement pattern development in the region, they must be considered in this study. Even more uncertain are the data about socio-economic conditions for this and other periods in the past.

Source of Socio-Reonomic Information

Fixed points around which to search for socio-economic information were provided by the dates of the sources used to reconstruct settlement patterns. The main interest was in conditions during a period extending for a generation either side of the settlement pattern date, in the crude belief that this would provide sufficient contemporaneity in reconstruction, whilst

widening the net sufficiently to obtain useful information. Attention was also given to the periods in between the key dates, so that significant changes could be isolated, should they occur at all. A large volume of material had to be sifted partly as a result of this fundamental decision but partly also because of the long span of time encompassed by the study. An additional complication was the scarcity of full sources for any single time-horizon and the need to cast about widely to find snippets of material which could be fitted into a larger jigsaw puzzle. The amount and scope of material consulted to produce just one or two facts will be evident from the lists of primary sources grouped in the bibliography under period headings. Bach source was critically evaluated in an attempt to appreciate its value and limitations, as well as to understand its contents. This is elementary practice, but it is surprising how often errors of interpretation have crept into the secondary sources, suggesting faculty scholarship. 55 Many of the items listed in the bibliography under secondary works have a bearing upon the evaluation exercise, though some were consulted to facilitate a better understanding of the historical periods concerned.

Several of the primary sources of socio-economic information have been mentioned in the previous section. The enumeration produced by the Commission Scientifique was particularly important since it provided data directly comparable with that contained in a Venetian document of C.1702 and Nevers' Document C of c.1618. Other source materials will now be discussed under the headings Published Documents and Literary Sources.

Published Documents

There are several reasons for the basic decision to use only published materials for this study. Achievement of the basic objective of studying settlement pattern evolution over some 5,000 years precluded the time-consuming and often fruitless searching of the inadequately catalogued collections in the major archives in Athens, Istanbul and Venice. In any

case, the usual problems of palaeography and diplomatic were compounded by the need to study documents of widely different age, provenance and language. Useful unpublished material almost certainly exists in Istanbul, ⁵⁶ for example, but the effort required to obtain it was considered disproportionate to the likely return, for even the published material from that other great repository, the State Archives in Venice, has generally proved disappointing for present purposes. ⁵⁷

Some collections of Maniat documents have been published, at least Anapliotis has edited 16 documents covering the period 1729-1831 from the papers of the Koutiphari clan, to which the first Bey of the semiautonomous region belonged. They consist largely of bills of sale, marriage contracts and wills. 58 Sixty-four documents belonging to the Servi Katsire's family were published by Skopetas, and cover the period 1547-1830. Bills of sale are again prominent in the collection, but other items are also found, including an important agreement about the payment of wergeld. 59 A third group of documents owned by a branch of the once important Grigoraki clan has been published for the period c.1810-12 and consists of letters, treaties and firmans relating to the appointment of Theodoro Zanetakis as Bey. 60 Unfortunately, all three collections emanate from the northern Mani, and there is considerable doubt about the extent to which socio-economic conditions there were the same as those in the more southerly districts. Fewer documents from the southern parts of the Mani have been published, possibly because they have not survived. Some of the 129 letters from relatives in the Mani to kinsmen in Zante, published by Vagiakakos, come from this part of the region, but they are not as useful as they might at first appear. 61 A more difficult source is provided by extracts from a notebook kept by a folk-doctor in southern Mesa Mani over the period 1715-1763, but through references to injuries it gives some first hand impression of the feuding endemic in the district. 62

Most of the surviving Maniat sources appear to be unpublished.

They include the archives of other locally important families, especially that of the main branch of the Grigorakis clan which gave three Beys to the Mani. This is currently being prepared for publication by a member of the clan, T. Tzortzakis, and is believed to contain some 1500 items ranging from account books to decrees and letters. The National Archives in Athens hold a considerable amount of Maniat material, especially of nineteenth century date, whilst other documents may be found in the Library of the Greek Parliament and possibly in the hands of old-established families in Kalamata and Sparta.

A considerable amount of published material has come from western archives. The Venetian archives have proved comparatively fruitful, though the documentary references to the Mani are generally scattered, few and often very brief. Amongst the more important are reports relating to Maniat treachery in the face of the rapid and bloody Turkish advance through the Morea in the summer of 1715 and an appeal to the Republic by the people of Vityle in 1690.64 Reports of the provveditori generali from the period 1687-1715 contain brief, almost passing, references to the region, 65 as do a few of the earlier materials published by Lamansky. 66 Sixteenth century notorial records of insurance claims studied by Tenenti shed a tiny ray of light on Maniat trade at that time. Medieval sources from the Venetian archives have been published by several scholars, but, though they do contain material of Maniat reference, it is often very slight. 68 is true of the major medieval chronicles, including the Chronicle of the Morea, and of that important early source, de administrando imperio, compiled by the Emperor Constantine Porphyrogenitus for the instruction of his son. 70 Information is gleaned from all these sources with difficulty. It is tantalisingly fragmentary, frequently ambiguous and often hard to interpret.

Other archives have produced Maniat material, including those of Spain, but particular mention must be made of the Naples archives. Not only has this repository produced a fourteenth century grant of revenues from the Mani, but it has also yielded several of the documents associated with the Nevers' venture. Simple content analysis of the Reports by the Duke's agents and especially of the Maniats' letters has produced interesting, though incomplete and possibly controversial information about various aspects of society.

Finally, mention should be made of various ancient inscriptions which have been found in the Mani. These not only confirm the location of the region's poleis, but also reveal something of their political relationships under Roman influence and, in the case of Gythium, something of the economy. Practically nothing is available from earlier times, though some inferences perhaps might be made from the material recovered in excavated sites elsewhere in southern Greece, including the Pylos Tablets.

Literary Sources

The literary sources are much more specific, but require greater evaluation than directly located materials, whether archaeological or documentary in the pure sense. The most important single set of sources is provided by travel accounts. These survive from the Middle Ages, though most of the early writers had little or no direct experience of the Mani and either mentioned it in passing or simply repeated gossip collected in neighbouring towns. Ciriaco of Ancona (1391-c.1455) was possibly the first west European to traverse the region (Fig.11). Unfortunately for our purposes, his interests in the region were largely antiquarian, though he mentioned things of social and economic reference, such as governors at Vitylo and Caropolis and the growing of vines and clives.

Travel accounts become more numerous in the eighteenth and early nineteenth centuries, and several of their authors actually visited the Mani, despite the risks from its ferocious inhabitants and the apparent lack of

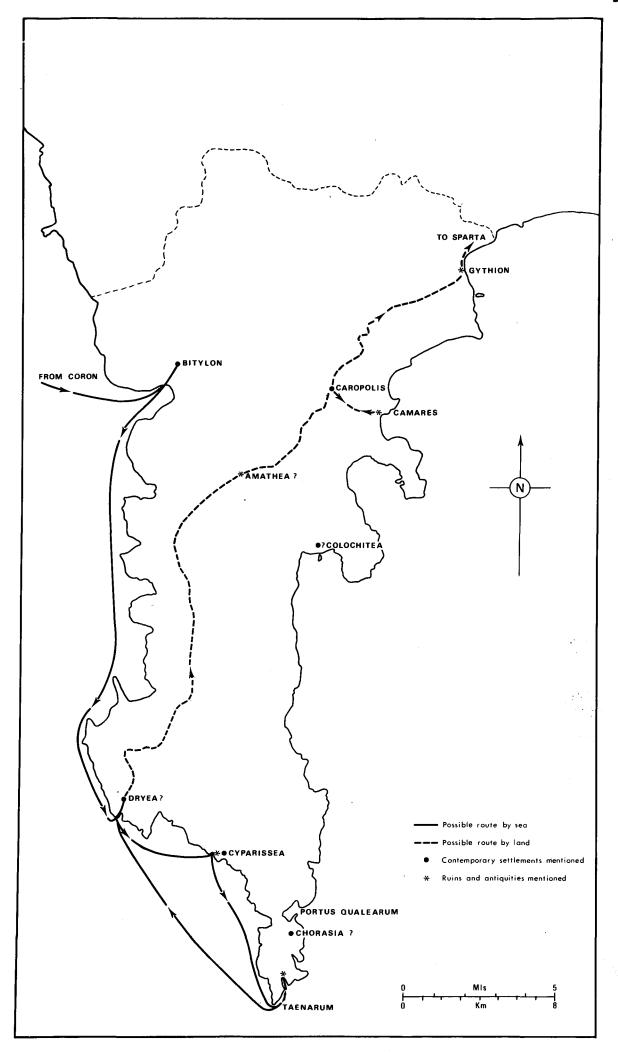


Figure 11: Itinerary of Cyriacus of Ancona, October, 1447.

attractions. 74 Their interests were largely antiquarian, like Ciriaco's. but several of them commented on what they saw in the region as they rode along and recorded some of the information given to them about the region's society and economy by their guides and hosts. Foremost amongst this set of travellers were William Mertin Leake (1777-1860) and the third Earl of Carnaryon (1800-49). Leake was in the study region between 2 and 16 April, 1805 as part of a secret military mission in support of Britain's Turkish allies, and published a well-received, detailed account of his visit some twenty-five years later. A man with a talent for accurate observation, who spoke the language, Leake travelled across the region from Marathonisi (Yithion) to Tsimova (Areopolis) and then down to Cape Matapan and back to Tsimova before going on to Kalamata. (Fig. 12). No other traveller had been so far into the region since Ciriaco of Ancona in the fifteenth century. and no one had recorded so much about it. Lord Carnarvon got as far as Kitta in 1839, but the details of his itinerary are obscure from the version of his journal edited by his son thirty years later. 76 Nonetheless. the discussion of social mores in the southern Mani has been recognised subsequently as "very significant" and has been much quoted. Less importance can be attached to the observations of men like William Gell (1777-1836), despite his contemporary reputation in most circles, 78 and the rather cranky Stephanopoli, or to the second hand reports of Spon and Wheler, but their accounts contain the occasional valuable piece of information. The material in two books by the person calling himself Le Sieur de Guilletière is particularly suspect since he was exposed as a plagiarist by Spon. though it is far from entirely useless in the absence of the original sources.

The travel accounts can be supplemented to some extent by information from a number of systematic accounts of the Morea. Particularly useful, though not always accurate, is Pouqueville's <u>Voyage en Morée à Constantinople</u> and its English translation. En is a grand compilation made from materials collected whilst Pouqueville was held prisoner for seven years at Tripolitza following his capture by corsairs whilst on his way to France from Alexandria

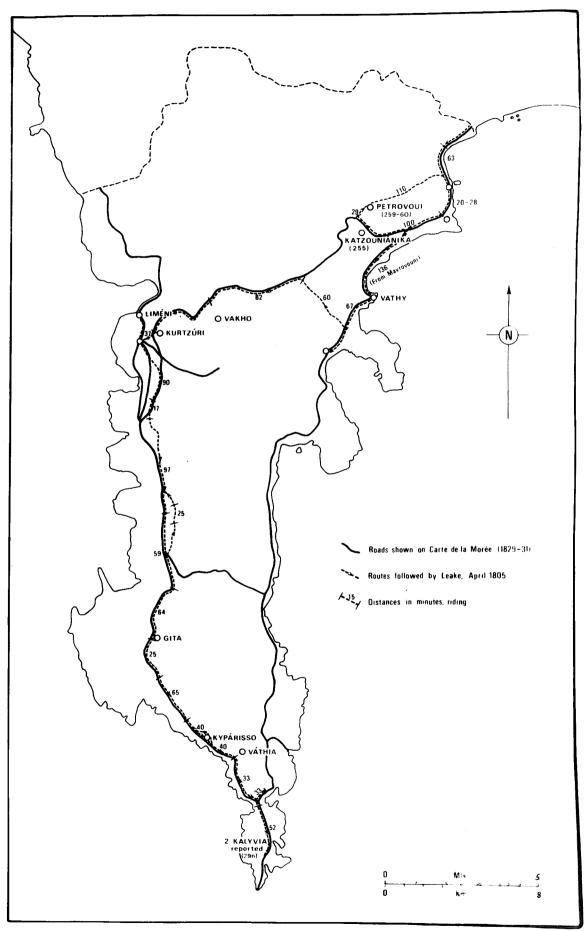


Figure 12: Leake's Routes and Travel Times in the Study Region, April, 1805

during the French occupation of Egypt. Its value is considerable if approached with caution and checked against near contemporary material such as that provided by Leake and, in some instances, by the Sicilian traveller. Xavier Scrofani. Something approaching a hundred years earlier, the Franciscan friar and Cosmographer to the Republic, Vincenzo Maria Coronelli (1650-1718) published a brief description of the region in his popular compilation on the Morea and Negroponte. 84 The information is clearly not the result of first-hand observation, since Coronelli scarcely left his native Venice after a brief visit to Paris, but despite some inaccuracies, where they can be tested the data seem reasonably accurate. Similar remarks may be made about the bulk of Antonio Pacifico's Breve Descrizzione Corografica del Peloponneso o' Morea, which is arranged in a similar way and may indeed be based on Coronelli's book, and about Bernard Randolph's brief description of the region published a short time before, particularly since practically nothing is known about the author apart from the fact that he also produced several maps and may have travelled in the Levant during the 1670s. 85

A number of ancient authors apart from Pausanias mentioned places or events which can be located in the Mani, but even the fullest account. Livy's description of the Roman siege of Gythium in 195 B.C., ⁸⁶ does not reveal much about socio-economic conditions. One of the difficulties is that the ancient texts were not produced by Lacedaemonians and their authors were very imperfectly informed about conditions internal to the Spartan state. Accordingly, it is not until after Spartan power had been broken at Leuktra (371 B.C.) that the <u>perioecic</u> status of the Maniats is revealed by local inscriptions and by Pausanias list of the members of the League

x <u>Perioeci</u> were "the subjects of a Greek state, living in the outlying districts, who possessed their own communities, local self*government and local rights of citizenship, but were always under the domination of a greater state, to which they were obliged to render various services".

H. Michell, <u>Sparta</u>, (Cambridge, 1964) p.64.

of Free Lakonians. Once this has been established, something can be inferred from the current literary sources about local self-government through the <u>poleis</u> (the powers of the three <u>ephors</u>, for example)⁸⁷ and about social relationships within the polis-territories. Reliable information, however, is as hard to establish for the Hellenistic and Roman periods as for any other.

Scarcity of definite information on socio-economic conditions is one of the great drawbacks to studying the Mani. It arises fundamentally from the region's position. Although the Mani occupied a strategic location in the Mediterranean basin which was of interest to several great powers in the past (pp.70-2), it was always distant from the centres of political power. Access was not particularly easy and the region contained no great resources of vital minerals or cultivable land. Accordingly, no state needed to set up an elaborate administrative structure for the region, even if this had been possible, and, accordingly, it is not until the period of semi-autonomy from about 1776 to 1830/1840 that much documentation exists. The Maniat data which can certainly be collected for earlier periods were produced almost incidentally and are very fragmentary. Pieces have to be fitted one to another as closely as they will go, often with a great deal of interpretative discussion. Even then, the jigsaw puzzle contains great holes and many stray pieces are left because they cannot be fitted in anywhere or cannot be handled by the methodologies developed for this study.

References

- 1. A. Demangeon, La geographie de l'habitat rural, Annales de Geographie, 36 (1927), pp.1-23, 97-114.
- Commission Scientifique de Morée, a) Relations du Voyage de la
 Commission Scientifique de Morée, Vol.2, Pt.1, Géographie, (Paris and Strasbourg, 1834), pp.89-92;
 b) Atlas, (Paris and Strasbourg, 1835).
- 3. J.B.G.M. Bory de Saint-Vincent, <u>Melations du Voyage de la Commission</u>

 Scientifique de Morée, Vol. 1, (Paris and Strasbourg, 1836), Introduction.
- 4. Commission Scientifique de Moree, a) Atlas, op.cit.;
 - b) <u>Triangulation et Levées de la</u> Grèce par l'Etat-major française, (Paris, 1830-35)
- of Leake's map was based on "the nautical surveys executed under the orders of the Admiralty by Captains Smyth and Copeland, of the Royal Navy". Internal detail was fixed by "more than fifteen hundred measurements with the sextant and theodolite, made from every important geodaesic station ... corrected or confirmed by a few good observation of latitude". (W.M.Leake, Travels in the Morea, London, 1830, Vol. 1, p.vii). Leake's care in the preparation of his map is revealed by his correspondence with John Hawkins, now in the West Sussex Record Office, Chichester and with George Finlay, now in the British School at Athens.
- 6. Bory de Saint-Vincent, op.cit., pp.31-32.
- 7. R. Walpole (ed.), Memoirs Relating to European and Asiatic Turkey and
 Other Countries of the East ..., (2nd ed. London, 1818), p. x.
- 8. Recurring figures include 12 (8 times) and 20 (7 times). The pairs are:

 Nymphi and Driali, Apano- and Kato-Kouloumi, Apano- and Kato-Dry.
- 9. Leake, <u>Travels ..., op.cit.</u>, p.243; Commission Scientifique,
 Relations ..., op.cit., p.91

- 10. Leake, Travels 1..., op.cit., p.332. His partial transcription covers pp.332-39, and the original complete copy of the Greek is in the Hertfordshire Record Office, Hertford, Acc. 599. No.85605. Another version was published by Δ. Β. Δημητράκου- Μεσίσκλη, Ο΄ Νύκλιανοι, (Athens, 1944), ρρ. 140-46.

 A summary was given by P.L. Fermor, Mani: Travels in the Southern
- Peloponnese, (London, 1958), pp.256-62.
- 11. I have not seen Σ. Νυφάκου, Μανιάτες Διανούμενοι: Νικήτας Νηθάκος Τοιητής της Μάνης, 1748-1818, (Athens, 1962)
 noted in Comité Hellenique de l'Association Internationale d'Etudes du Sud-est Européen, Quinze Ans Hibiliographique Historique en Grêce (1950-1964), (Athens, 1964)
- 12. "A line of fifteen syllables with a caesura after the eighth syllable and two main accents, one on the fourteenth and one on the sixth or eighth syllable", J. Campbell and P. Sherrard, Modern Greece, (London, 1968), p.215.
- 13. Leake, Travels ... op.cit., p.263.
- 14. Venice, 1700 and 1704.
- 15. A. Pacifico, <u>Breve Descrizzione Corografica del Peloponneso o' Morea,</u>
 (2nd ed., Venice, 1704).
- 16. Θ. Δ. Κρίμπα, 'Η 'Ενετοκρατουμένη πελοπόννησος, 1645-1715,

 πελοποννήσιακα, ι (1956), μρ. 315-46; 2 (1957), μρ. 247-55.
- 17. Pacifico, op.cit., (1st ed., Venice, 1700), p.69
- 18. Codice Cicogna, Biblioteca Civio Museo Corner, No.3248. An almost identical table was published by L. von Ranka, Die Venezianer in Morea, 1685-1715, Historische-politische Zeitschrift, 2 (1833-36), p.502 and by π. Χιώτης, Διλίστως, 2(1861), p.30. A revised date (1702) is suggested by P. Topping, The Post-Classical Documents in W.A.McDonald and G. R. Rapp (eds.), The Minnesota Messenia Expedition, Reconstructing a Bronze Age Environment, (Minneapolis, 1972) p.78

- 19. Referred to by O.L.Barkan, Daftar-i Khákáni, in B. Lewis, C. Pellart and J.Schacht (eds.), The Encyclopaedia of Islam, new ed., Vol.2, (London and Leiden, 1965), pp.81-83; J. von Hammer-Purgstall, Histoire de 1 Empire Ottoman depuis son origine jusqu'à nos jours, Vol.13, (Paris, 1839), pp. 275-76. It is being transcribed by Professor J. Petropulos, head of the History Department, Amherst College, Mass.
- 20. Σ. Ι. Παπαδοπουλου, Η Κίνηση του Δούκα του Νεβερ Καρόλου Γουζάγα για την Απελευθέρωση των Βαλανίκων Δαών (1603-1625) Institute for Balkan Studies, (Thessaloniki, 1966).
- 21. Texts in J.A.Buchon, Nouvelles Recherches historique sur la Principauté française de Morée ..., (Paris, 1843') pp. 253-68.
- 22. Texts: Buchon, ibid., pp.269-74, 286-87.
- 23. Texts: Buchon, op.cit., pp.277-79; Παπαδοπουλου, op.cit., p.123.
- 24. Texts: Buchon, op.cit., pp.280-86
- 25. Παπαδοπουλου, op.cit., p.133 Buchon published the document (op.cit., pp.280-81) but apparently missed the note to this effect written at the foot of the second page of the manuscript and believed it was another report.
- 26. M.P.Vréto, Tentative d'insurrection dans le Magne du XVIIe siècle, in <u>Mélanges Néchelléniques</u>, (Athens, 1856), pp.11-20; document transcribed pp.14-19.
- 27. Text: Buchon, op.cit., pp.283-86. The original has disappeared from the Naples Archives according to a private letter from the Director.
- 28. Buchon, op.cit., p.283.
- 29. O.L.Barkan, a). Essai sur les données statistiques des régistres de recensement dans l'Empire Ottoman aux XVe et XVIe siècles, <u>Journal of Economic and Social History of the Orient</u>, 1 (1957), pp.9-36;
 b) Research on the Ottoman Fiscal Surveys, in M.A.Cook (ed.),

 Studies in the Economic History of the Middle East from the Rise of Islam to the Present Day, (London, 1970) pp.163-71.

- 30. Text: Buchon, op.cit., pp. 272-74
- 31. Manuscript catalogue in the Başvekâlet Arşivi, Istanbul.
- Praktika, Etudes Historiques à l'Occasion du ler Congrès International des Etudes Balkaniques et Sud-est Européenes Sofia, (Sofia, 1966)

 Vol. 3, pp. 11-23. The potential of these sources is clear from D.

 Jacoby, Phénomenes de Démographie rurale à Byzanze aux XIIIe, XIVe et XVe siècles, Etudes Rurales, 5-6 (1962-63), pp. 161-86 and G.A.

 Ostrogorsky, Quelques Problemes d'Histoire de la Paysannerie Byzantine (Brussels, 1956)
- 33. Table 9; Appendix V , items 13, 14, 15 and 16.
- 34. Appendix V item 10.
- 35. Appendix V, item 8.
- 36. Δ. Β. Βαγιακάκου, Μάνη (Μένα Μάνη). Ο Τόπος, οι Βυζαντινοί Ναοί, Οι πύργοι και το Μοιρολόγοι, (Athens, 1964);

 Δ.Β. Δρανδάκη, Βυζαντιναι Τοιχογραφίαι της Μένα Μάνης, (Athens, 1964);

 H. Megaw, Byzantine Architecture in Mani, Annual of the British School

H.Megaw, Byzantine Architecture in Mani, Annual of the British School at Athens, 33 (1932-33), pp.137-62; R. Traquair, Laconia III. The Churches of Western Mani, Annual of the British School at Athens, 15 (1908-09), pp.177-213.

- 37. The Orthodox Liturgy, being the Divine Liturgy of S.John Chrysostom
 and S. Basil the Great, Fellowship of SS. Alban and Sergius, (London,
 1939), pp.26, 48.
- 38. T. Ware, The Orthodox Church, (Harmondsworth, 1963), pp. 278-79
- J.N.Andromedas, The Inner Maniat Community Type: A Study of the Local Community's Changing Articulation with Society, (Columbia University Ph.D., 1962; University Microfilms, Ann Arbor, 1966), pp.72-73, 76.
- 40. Appendix V items, 6, 9, 18, 20.

- A. Delatte (ed.), <u>Les Portulans grècs</u>, (Liege and Paris, 1947)

 N. Svoronos, Portulans grècs, <u>Revue des Etudes Greques</u>, 62 (1949),

 pp. 237-40. This is a review of Delatte.
- 42. Appendix I.
- 43. Appendix II.
- 14. These conclusions are based on a study of the coordinates for the key locations of Cape Matapan and the mouth of the Vasilopotamos river at the head of the Gulf of Lakonia as presented in the various maps and charts under review and the modern charts and Mediterranean Pilot.

 A set of sixteenth century coordinates was also studied and compared with modern data; Giacomo di Castaldi, I Nomi Latini tratti dell'Antico Greco e i Nolgari hora Nominati, di Tutta la Provincia della Grecia, (? Venice, 1560). Castaldi probably used the Azores or the Cape Verde Islands (about 26°.00° W of Greenwich) as his prime meridian and his longitudes for the key locations are at least 4° in error.
- 45. Appendices I and II.
- 46. J.G.Frazer, Pausanias's Description of Greece, (London, 1898), Vol.1, pp.xxii-xxiii.
- 47. Pausonias, 111. 21-5-25.10. Latinised forms of place names are used whenever dealing with ancient settlements to avoid confusion with modern administrative names which, in several instances, have been taken from Pausanias.
- 48. Strabo, VIII.4.4. 5.1-3.
- 49. Ptolemy, Geography, 111.9. The Byzantine origin of this compilation is established by L. Bagrow, The Origin of Ptolemy's "Geographia", Geografiska Annaler, 27 (1945), pp.318-87.
- 50. Scyladis Caryanderis, Periplus, in R.H.Klausen (ed.), Hecataei.

 Milesii Fragmenta, (Berlin, 1831), p.47. The difference in number depends upon whether Taenarus is regarded as a settlement or simply the site of the temple of Poseidon.

- 51. Discussed in Chapter 5, pp.114-15. For sources see note 7 to that chapter.
- 52. H. Waterhouse and R. Hope Simpson, Prehistoric Laconia I and II. Annual of the British School at Athens, 55 (1960), pp.67-108; 56 (1961), pp.114-78.
- 53. Archaeological Reports for 1971-72, Society for the Promotion of Hellenic Studies and the British School at Athens, (London, 1972), p.10.
- 54. Iliad, II, 582-85.
- 55. Some examples emerge in Chapter 7.
- 56. Particularly amongst the Archives of the Fleet and its Province of the Islands to which the Mani belonged from c.1776. See J. Reychman and A. Zajaczkowski, Handbook of Ottoman-Turkish Diplomatics. (The Hague and Paris, 1968), p.25.
- The names of Venetian officials in the Mani during the periods 1467-79 and 1686-1718 are known from C. Hopf, Chroniques Greco-Romanes inedits ou peu connues, (Berlin, 1873) p. 385 and A. da Mosto, L'Archivio di Stato di Venezia ..., Bibliothèque des "Annales Institutuorum", Vol. 5, Pt.2, (Rome 1940), p.20. Since all Venetian officials were required to make frequent reports, there is a good chance that some papers have survived. Through the good offices of Dr. C. S. Cairns, now of the University College of Aberystwyth, an attempt was made to discover just what had survived but we soon discovered that hundreds of files, from several different departments of state, would have to be searched before anything at all could be found. The attempt was abandoned.
- 58. Γ. 'Αναπλίωτης, το Κουτηθαραίικο Τζάκι, (Kalamata, 1954).
- 59. Σ. Χ. Σκοπετεά, Έγγραφα Ιδιωτικά Έκ Δ. Μάνης των Έτων 1547-1830, <u>Επετηρίς</u> τοῦ 'Αρχείου τῆς 'Ιστορίας <u>Τοῦ 'Ελληνικοῦ Δικαίου</u>, 3 (1950), pp. 60-117.
- 60. Σ. Β. Κουγέας, 'Ιστορικαί Πηγαί διά την 'Ηγεμονίαν της Μάνης (1774-1821), <u>πελοποννήσιακα</u>, 5 (1962), pp. 60-136.

- 61. Δ. Β. Βαγιακάκου, Μανίαται είς Ζακυνθου. Η 'Οικογενεία Νίκλων Νικλιάνων 1554 1859, <u>Επετροίς του 'Αρχέιου της</u> <u>΄Ιστορίας Του Έλληνικού Δικαίου, 5 (1954), pp. 1-96.</u>
- 62. Δ. Β. Δημητράκου- Μεσίσκλη, <u>Οι Νύκλιανοι</u>, (Athens, 1949),
 ρρ. 199-216.
- 63. Andromedas, op.cit., p.5.
- 64. Κ.Δ. Μερτλου, α). Ποτέ και πως Έπεσιν η Μάνη εις Χείρας
 των Τούρκων το 1715, <u>Πελοποννήσιακα</u>, 3-4 (1958-59), ρρ. 276-87;
 b). Η Έκκλησις των Μανιατών προς τους
 Ένετους κατα την Κήρυξιν του Τουρκο- Ένετικου πολέμου
 (Ίανουάριος του 1715), <u>Πελοποννήσιακα</u>, 3-4 (1958-59), ρρ. 401-04;
 Σ.Β. Κουγέα, Αναβορα των Βοιτυλιωτών προς την Ένετικήν
 Δημοκρατίαν (Τ'Απριλίου, 1690), <u>Πελοποννήσιακα</u>, 2 (1957),
 ρρ426-30.
- 65. Published by Σ. Π. Λαμπρου in Δελτίον τῆς Ίστορικής καί Έθνολογικής Έταιρείας τῆς Έλλαδα, νοί. 2 (1445-49), γρ. 242-317; νοί. 5 (1900), γρ. 224-51, 425-47, 533-67, 605-706, 715-823.
- 66. V. Lamansky, Secrets d'Etat de Venise (St. Petersburg, 1884).
- 67. A. Tenenti, Naufages, Corsairs et Assurances maritimes à Venise, 1592-1609, (Paris, 1959).
- 68. See, for example, G.L.F. Tafel and G.M. Thomas in the bibliography.
- 69. J. Schmitt (ed.), The Chronicle of the Morea, (London, 1904); H. E. Lurier, The Crusaders as Conquerors (New York and London, 1964).
- 70. G. Moravcisk and R.J.H. Jenkins, Constantine Porphyrogenitus, De
 Administrando Imperio, (Budapest, 1950)
- 71. J. Longnon and P. Topping, <u>Documents sur le Régime des Terres dans</u>

 <u>la Principauté de Morée au XIVe siècle</u>, (Paris and the Hague, 1969)

 Document 1.
- 72. The number of individual inscriptions is too long to list separately, but the published texts may be found in the standard collections listed in the bibliography.

- 73. R. Sabbadini, a). Cirico d'Ancona e la sua descrizzione autografa
 del Peloponneso trasmessa a Leonardo Bottà, in his <u>Classici e</u>

 <u>Umanisti da Codici Ambrosiani</u>. (Florence, 1933), pp.23-30;
 b). Ciriaco, in <u>Enciclopedia Italiana</u>, Vol.10 (Rome, 1931), p.483;
 B. Asmole, Cyriac of Ancona, <u>Proceedings of the British Academy</u>,
 45 (1959), pp.25-41; F. Babinger, Notes on Cyriac of Ancona and
 some of his Friends, <u>Journal of the Warburg and Courtauld Institutes</u>,
 25 (1962), pp.321-23.
- 74. Visitors included, in addition to those mentioned later in the chapter,

 Bransen, Galt, Gell and Morritt. Morritt was deterred from penetrating
 farther south than Vitylo by the "disturbed state of the country"

 (R. Walpole, ed., Memories Relating to European and Asiatic Turkey,

 2nd. ed., London, 1818, p.56) and Dodwell did not get there at all
 from Mistrá because of bad weather and the great number of "banditti"

 (E. Dodwell, A Classical and Topographical Tour through Greace in the
 Years 1801, 1805 and 1806, London, 1819, Vol.1, p.414.)
- Travels ..., op.cit., pp.232-320. Bibliographical information from "Address to the Royal Geographical Society of London, Delivered at the Anniversary Meeting on 28 May, 1860, by the Earl de Grey and Ripon, President", Proceedings of the Royal Geographical Society, 1859-60, pp.130-33. Assessments from H.F.Tozer, Lectures on the Geography of Greece, (London, 1873), pp.32-33; The Edinburgh Review, 75 (1842), p.492; The Gentleman's Magazine, 100 (1830). Pt.1 pp.421-23.
- 76. Earl of Carnarvon, Reminiscences of Athens and the Morea, (London, 1869), pp.131-201. Biographical information from L. Stephen and S. Lee (eds.)

 Dictionary of National Biography, Vol.26 (London, 1891), pp.201-02;

 A. Hardinge, The Life of Henry Howard Molyneux Herbet, Fourth Earl of Carnarvon, 1831-1890. Vol.1, (London, 1925).

- 77. Andromedas, op.cit., p.4
- 78. W. Gell, Narrative of a Journey in the Morea, (London, 1823), pp.252-78.

 Even Lord Byron managed a favourable review of Gell's earlier works,

 The Geography of Ithaca and The Itinerary of Greece, R.E. Prothero (ed.)

 The Works of Lord Byron, Letters and Journals, (London, 1898), Vol.1,

 Appendix 3, pp.350-65. This particular book, however, was severely attacked in The Edinburgh Review, 38 (1823) pp.314-32.
- 79. D. and N. Stephanopoli, Voyage de Dimo et Nicolo Stephanopoli en

 Grèce pendant les années V et VI (1797 et 1798), (Paris, 1800),

 Vol. 1, pp. 1-76. Gell, Travels ..., op. cit., pp.197-98 doubted

 the authenticity of this visit, but most other people have accepted

 that it did take place. Some of their information, however, was

 certainly taken straight from Pausanias and plagiarised from Leroy's

 memoire "Sur les moeurs et usages des vrais Mainottes" (1755) published

 by L'Abbé Sevin, Lettres sur Constantinople, (Paris, 1802), pp.122-23.
- 80. J. Spon, Voyage d'Italie, de Dalmatie, de Grèce, et du Levant fait
 en années 1675 et 1676, Vol. 1 (2nd ed., Amsterdam, 1679) pp.121-23;
 G. Wheler, A Journey into Greece, By. G. W. Esq., in Company with Dr. Spon
 of Lyons, (London, 1682), p.47.
- 81. Le Sieur de la Guilletière (A.G.Guillet), a). Athènes ancienne et moderne, (Paris, 1675): b) Lacédémone ancienne et nouvelle, 2 vols., (Paris 1676). The academic argument between the two authors is outlined in <u>Biographie</u>

 <u>Universelle</u>, Vol. 18 (Paris, 1857) pp.189-90.
- 82. J.C.H.L. Pouqueville, a). <u>Voyage en Morée à Constantinople</u>, 3 vols.

 (Paris, 1805) b). <u>Travels in the Morea</u>, <u>Etc.</u>, trans., by Anne Plumpetre, (London, 1813). This is the version most often cited in the following chapters.
- 83. British travellers were not very happy about Pouqueville's general accuracy.

 Lord Eyron twice commented on his inaccuracies in the notes to Childe

 Harold's Pilgrimage, A Romaunt, (4th ed., London, 1812), notes 17 and 18,

 to Canto 11, stanza XIVI and his views were repeated by a French reviewer

- of a later work <u>Journal des Savants</u>, 1828, pp.218-27. Leake also condemned him as a "fallacious guide", W.M.Leake, <u>Researches in Greece</u>, (London, 1814), p.405.
- Negroponte, e Littorali fin 'a Salonichi, (Venice, 1686). It ran to at least 4 editions in Italian, 3 in French and 1 each in English and German, S.H.Webber, Voyages and Travels in Greece, the Near East and Adjacent Regions made Previous to the Year 1801, (Princeton, New Jersey, 1953), nos. 803-813. The English version is used here. For the man himself see E. Armao, Vincenzo Coronelli, Cenni sull'Uomo e sua Vita, (Florence, 1944). Some assessments of his achievements are made in Biographie Universelle, Vol. 10, (Paris, 1852), pp.252-53 and Nouvelle Biographie Générale, Vol. 11 (Paris 1855), pp.906-07.
- B. Randolph, The Present State of the Morea, called anciently

 Pelopennesus, (1st ed., London and Oxford, 1686). I have used the third

 edition (London, 1689) where the Mani is described on pp.8-10. A few

 commentators have suggested the 1670s as his time in the Levant:

 W. Miller, Essays on the Latin Orient, (Cambridge, 1921), P.387;

 J.M.Osborn, Travel Literature and the Rise of Neo-Hellenism in England,

 Bulletin of the New York Public Library, 67 (1963), p.282, note 5. The

 dedication of the map in the third edition suggests Randolph may have

 been part of Lord Winchelsea's suite when he was ambassador to the Porte,

 1661-69.
- 86. Livy, XXXIV. 29. 1-14.
- 87. Mentioned in inscriptions, G. Kølbe, (ed.), Inscriptiones Graecae,
 Vol.5, Pt. 1 (Berlin, 1913): Gythium Nos. 1144, 1145, 1146, 1524;

 Hippola No.1336; Kaenepolis Nos. 1240, 1241; Oetylus, No.1294;

 Pyrrhichus, No.1281

CHAPTER 3 : METHODOLOGY

Settlement Pattern Reconstruction

The study of settlement pattern evolution requires the reconstruction of patterns at convenient dates through the time period concerned. This exercise was attempted in the study region for c.1830, c.1700, c.1618 and the late second century A.D., as well as for the Early and Late Helladic phases of the Greek Bronze Age. Reconstruction took place on maps drawn to the scale of 1:100,000. Not only was this the scale of the best topographical maps available, but it is also the smallest scale at which all or most settlements in a region can be shown with some degree of accuracy. In addition, the British Staff maps used the traditional names for settlements instead of the Hellenised forms which have been gradually substituted since the beginning of the century for many official purposes. Identification of earlier versions of the traditional names was thus facilitated, and settlements could be located with reasonable accuracy. Use of the same scale throughout the investigation was important, for it gave the study a consistent spatial framework and simplified comparative studies over a long period of time.

Assembly of the settlement pattern from the Commission Scientifique evidence was comparatively easy. Once established, it provided a base from which to work retrogressively into the past, a method which was also adopted for reconstructing socio-economic conditions since it has several strengths as a research method. By working backwards through time, the fuller source material and greater amount of direct, factual information of recent periods is allowed to inform the study of the more distant past, for which material is often scanty and generally less reliable. At the same time, the procedure recognises that data are uneven in availability and quality. Lacunae cannot be glossed over in a way which becomes almost inevitable where a temporal sequence is adopted with its compelling logic. The retrogressive method also

helps to avoid the gross error of post hoc, propter hoc. As Leontief has emphasised, the avoidance of this error is particularly important to sound historical analysis. There is the danger, though, of assuming that earlier conditions resembled later ones, unless there is specific evidence to the contrary, and of falsifying explanations by seeking to interpret antecedent situations in terms of the consequent ones. Hopefully, a counter has been provided in the text by discussing settlement pattern evolution within the correct chronological framework.

Sauerwein's identification of 81.2 per cent of the names in the whole of the Morea from the second edition of Pacifico⁵ greatly eased the same task for the more limited region of the Máni. Broadly, the method was to take each of Pacifico's names and try to find the same or similar name in the Commission Scientifique's data and subsequent sources. The task presented similar problems to those encountered in trying to identify the early seventeenth century names from the Nevers' source, Document C.

Two general and several specific problems may be noted. The general problems were raised by transliteration and the change of names over time. Italian was used in the two headings of <u>Document C</u>, and would seem to have been the language for the transliteration of settlement names from the Greek. It was, of course, the language of the Venetian cadastral authorities at the end of the seventeenth century. Direct transliteration appears to have been attempted by the Nevers' source in most cases, and it is interesting to observe that the Italian ch-sound has been used to render the Greek X and sometimes K, perhaps indicating that the letters had a soft mound when pronounced in the Maniat dialect of the early seventeenth century, as they have today. The transliteration, however, was neither rigorous nor consistent throughout the lists. Italian descriptive terms were placed before or after a settlement name in several cases, for example, <u>Paglia</u> Gianizza and Gliaci-nova grande. Sometimes the Greek was partially translated, as in <u>San</u> Constantino, but this was not a practice followed consistently for

the Greek forms, Agio ('Ayio,') and Agia ('Ayio) are also found. In one case, the Greek appears to have been translated completely as Villa della Madonna di Chelmont; largely in consequence, the settlement could not be identified.

Changes in settlement names presented a much more considerable problem. Although some settlement names preserved a recognisable form down to the early mineteenth century, for example, Ardouvista in <u>Document C</u> appeared as Androuvista in the enumeration and map produced by the Commission Scientifique de Morée, other settlement names have lapsed or disappeared over the last 140 years (Eg. Cutifariagni, Nericista and Nixovo) and are difficult or impossible to identify.

A number of more specific problems were encountered in seeking to identify settlements listed in Document C. Although Gianizza can be identified directly with a settlement called Gianitsa c.1830, the suggested identifications of Paglia Giannizza and Panagia di Giannizza were not so obvious (Appendix III). Both settlements must have been located in the same general area & Gianizza itself to bear the suffix. Paglia is the Italian word for "straw", and it seems reasonable to identify Paglia Gianizza with a kalyvia (Greek: "huts") settlement, consisting of a number of cane and straw huts occupied seasonally. Such a kalyvia settlement is clearly a dependency, and this was often indicated by a possessive form of the parent's name, 6 where it was not called simply the "kalývia of suchand-such". The next stage, therefore, was to identify Paglia Gianniza with early nineteenth century Gianitzanika. By a process of elimination, Panagia di Gianizza can be identified with Kato Gianitsa, a settlement, like Giannitzanika, which was marked on the Carte de la Morée of c. 1830 but not listed in the enumeration. There did not appear to be a settlement called Pagagia in the vicinity either c. 1700 or c. 1830 which could have been a rival candidate.

A similar process of reasoning was followed in locating most of the settlements whose names were completed by the phrase di Cholochitia in Document C. Two of these settlements, Gogonia and Vatas, could be securely identified with early nineteenth century settlements (Gonea and Vata) found in the tmima of Kolokythia, and which have continued in occupation down to the present. It seemed fair to suggest that the other di Cholochitia settlements must have been located in the same general area. On this basis, tentative identifications have been made for Castro di Cholochitia, Haitofoglia, Scurta and Voucholia, but not for Afungia and Giogicio-poulo.

Scurta may be Skopá Island. which lies just off the modern settlement of Kotronas and contains a number of ruins, possibly of medieval date. Foglia means "leaf" in Italian and the name Haitofoglia may be a partial translation of the name of one of the two modern settlements which derive their names from plants in the phrygana ("garrique") - Phlomokhori ("Mullein-village") and Riganokhora ("Marjoram-village"). Phlomokhori was preferred in the end because the settlement contains a substantial, probably medieval, church at its centre. The identification of Voucholia is even less certain, and was made on the rather unsatisfactory basis of similarity in sound between Voucholia and Loukadika, a settlement which appeared in the enumeration and on the map prepared by the Commission Scientifique. With 80 "hearths", Castro di Colochitia was the largest of this group of settlements, whilst the first part of its names means "town" or "castle" (KLOTOD), but identification was a little problematical. Probably Castro di Cholochitia was the same place as Colochina/Colokina/Colocythia marked on contemporary maps, and probably lay in the later tmime of Kolokythia and in the vicinity of Kolokythia Bay. Local people sometimes call the peaked hill which dominates Loukadika as "The Kastro", which might point to the former existence of a castle there and thus justified an alternative use of the Greek word, kastro. But no traces of fortification were found when the site was inspected, whilst the loose cluster of about

30 houses, ruined and occupied, is probably insufficient to justify calling the settlement a "town", even in the Greek context. A better candidate is early mineteenth century Kotronnaes, modern Kotronas. Not only has it been the largest settlement in the district since at least the early nineteenth century, but it is also located near to the only reasonable anchorage in Kolokythia Bay, a little to the east of Ekopa, so that it could be identified with confidence as the port referred to by various late seventeenth contury sources. The settlement today is a fairly compact nucleation, containing about 180 houses, with a core of old property near a church at a short distance from the shore, and lies on or very near the site of ancient Teuthrone. Its regular street system and possession of a number of shops logive the settlement an almost urban appearance similar to that of many of the semi-urban communities 11 recognised in the modern census. There is no evidence for the length of time that the settlement has had these quasi-urban characteristics but, taken with the other evidence, they point to Kotronas as the most likely candidate for Castro di Cholochitia. 12

These few examples will have made clear both the nature and the complexity of the identification exercise; the full results are given in Appendix III. The procedure was essentially pragmatic and involved sifting through a range of sources and considering a number of possible identifications before gradually eliminating the more unlikely ones. Similar slow and tedious methods were used in the attempt to identify names in medieval sources, as well as the names from Pacifico which had been left unidentified by Sauerwein. Less success was achieved. Partly in consequence, very few medieval settlements are known from the region. Fortunately, much of the identification work had already been done for the places mentioned by Pausanias and listed in the Homeric Catalogue of Ships (pp.112f). All that remained to be done was to check the accuracy of these identifications, plot the sites and create the distribution map.

In and on put the

Statistical Analysis

essentially point patterns in which the settlements were conceived as having no dimensions. Although the earliest patterns were so simple that they could be described verbally, the large number of points in later patterns could only be satisfactorily described in some more objective way. Objectivity was also desirable in making comparisons from one period to another. Quadrat analysis and nearest neighbour analysis seemed to offer the necessary techniques for this.

Quadrat analysis depends upon being able to grid an area with appropriately sized squares and count the number of points in each quarrat. The data can then be transformed into a frequency distribution which can be used to indicate the degree of regularity in a pattern. 13 A large number of quadrats containing a small number of settlements indicates a scattered distribution of points. The absence of points from a great many quadrats, or the concentration of a large number of points in a very few quadrats clearly indicates a clustered pattern. The choice of quadrat size, though, is crucial, since different sized meshes will give different results. A l kilometre square was felt to be adequate for this study since it matched the scale of the map and had a side which was less than the mean distance apart of settlement points in the reconstructions. Unfortunately, a comprehensive, regular figure, such as is normally used for applying the technique. 5 could not be fitted to the Mani and a rather irregular figure was all that could be devised. This distorted the analysis. Although the results highlighted the fact that much of the peninsula was empty of settlement throughout time, despite the alleged pressures on it as a refuge, not enough confidence could be put in the technique to justify using these consistently throughout the formal presentation of this study. They have been used only occasionally to strengthen interpretation based on nearest neighbour analysis.

Nearest neighbour analysis yields a statistic expressing the difference between an observed (or actual) pattern of points and one that is totally random. This is obtained by calculating the mean distance between points which are nearest neighbours (Tobs) and comparing that figure with the mean which would be obtained if the same number of points was distributed randomly. The ratio is expressed as

$$\bar{r}E = \frac{\bar{D}obs}{2\sqrt{F}}$$

where P represents "the number of points per unit of areal measurement" or $\frac{N}{A}$, and Dobs the observed mean distance of nearest neighbour points. 16 Should the observed pattern approximate to random, the values of $\tilde{r}E$ will fall close to 1.0. Non-random patterns give results ranging above 1.0 towards 2.15., for a regular pattern of points achieved when the points are organised on a lattice of equilateral triangles, with each point equidistant from six others. 17 Values from 1.0 to 0 represent patterns tending towards complete agglomeration. Both extreme values, 0 and 2.15 are very unlikely to be found in practice, and inspection of any nearest neighbour statistic does not readily reveal the direction in which a trend is operating. A simple and elegant method has recently been devised which allows the trend to be read off a graph showing the range of randomness possible with a given number of points in the population. 18

Mearest neighbour analysis allows the objective description of the pattern of settlements existing at a particular time, and facilitates the comparison of the samples from the time continuum. However, several sources of error may be recognised when the technique is applied to the study region. The most basic is the plotting error characteristic of all mapping. Plotting error, which varies according to the scale of the base map, does not appear to have been considered in published work using nearest neighbour analysis, though it must have had some effect upon the results presented. On the scale of 1:100,000 used for the present study, the plotting error is about 238 metres which is sufficient to prejudice the smaller

There are out of

distances measured between nearest neighbour points in the Mani. The error is likely to be randomly distributed through both the data set for each time sample and through the whole time-continuum concerned, so that it is not as serious as it appears, and might be regarded as constituting an allowable experimental error.

A second source of error arises from the elongated shape of the region, for this form minimises any tendency towards clustering apparent in the distribution of points. 20 All that can be done here is to recognise the tendency and attempt to correct it by taking the figure for reflexive pairs into account since this is really some measure of clustering.

With these errors recognised and allowed for in the interpretation, nearest neighbour analysis was used to describe settlement patterns reconstructed at particular dates and compare one with another to examine change. ²¹ It was also used as a search technique, because it was felt that the existence of nearest neighbours and of groups of nearest neighbours (nearest neighbour structures) might point to spatial relationships which are the result of more than chance. Results from the study of reflexive pairs are particularly suggestive of this possibility since they often arise from reciprocal effects in the placing of points. ²²

But settlements cannot be regarded simply as geometrical points on a plane surface. They have size and extent, and they occupy particular sites within situational niches in a wider region. Settlement form and morphological development are not considered in this study because data are insufficient until the early nineteenth century. It is important, however, to consider site and situation in the analysis of regional point patterns. Contemporary information about site is largely unavailable, since travellers and administrators were not interested in such mundane matters. Nonetheless, data can be made available if two assumptions are made. First, one can assume that nemed settlements have occupied broadly the same site throughout their

recorded existence. Some shifts of site are known to have taken place in the Mani and these will be noted in the appropriate place, but by and large stability seems probable once a settlement was founded, even if settlements may have moved around on their sites as a result of periodic destruction and frequent rebuilding. The second assumption follows from the first. One can assume that the site of any settlement in the past was the same as the place occupied by the settlement bearing the historical name today. Making these assumptions allowed the topographical characteristics of every site to be described and prepared the way for the next stage of analysis. Each site /fitted into a seven-part classification carefully defined by standard geographical terms (Appendix IV). This was done by generalising each particular assemblage of topographical conditions in terms of one relief form, such as a ridge or a knoll. Elevation was not measured in the field because of the difficulties of making barometer traverses from fixed points in such a rugged terrain, especially when so few spot heights had been accurately fixed. Instead, settlement heights above 100 metres were derived from the contoured map of Lakonia published in the Atlas of Greece and those below 100 metres from British Staff maps. 23

The classic tradition in settlement geography has stressed the important effects of water supply on settlement patterns in arid and semi-arid regions. Ancient authors, especially the architect and former soldier, Vitruvius, were very particular about the type of water sources desirable for a settlement and, in the absence of much direct Maniat evidence from antiquity, these views have been taken into account in suggesting likely sources. Very few of the later documents or literary works made any reference at all to water, even the Reports of the agents of the Duc de Nevers, despite specific instructions to investigate the subject. In the absence of strictly contemporary information, data about modern water supply was collected in the field and is used in later chapters on the assumption that the sources of domestic supply in the past are unlikely to have been very different. This use of modern data to inform past situations, whether about siting or domestic

water supply, can be justified theoretically by the uncertainty principle. Recast in geographical terms, the principle recognises that the collection of precise spatial information must involve some inaccuracy over precise time. In the present case, exact information about the qualities of place at particular periods can be secured only at the cost of precision over the time for which the information was correct.

Situation was given a little more attention by contemporaries, but they rarely recorded enough information with precision for it to form the basis for analytical study. Situation was thus examined in a similar way to site. The general situation of a settlement was appraised in the field, but, to sharpen the analysis, frequency counts were made later of the number of settlements lying in particular slope and altitude zones. These were felt to epitomise situation in a general way and thus facilitate statistical analysis. The slope zones were devised by constructing a simple combined morphological and average slope map. The average slope component was derived using the simple method devised by Raisz and Henry to construct their map of southern New England. For the present study, data were taken from the contoured map in the Atlas of Greece and the British Staff maps. Morphological detail was added from these maps and from detailed field work.

In order to establish the characteristics of settlement distribution between the different height and slope zones in the region, use was made of the Chi-squared test. This measures the discrepancies between expected and observed frequencies. 28 It was thus possible to distinguish whether settlements appeared to be distributed according to the relative sizes of the different height or slope zones or whether there was a degree of unexpected concentration, perhaps suggestive of some relationship between the qualities of the preferred situation and the number of settlements. The nature of any such relationship was then open to further exploration. This required a thorough knowledge of the region's topography, a sketch of which is provided in the next chapter.

doubtedus

The Mani is treated there as the home of man, and no attempt has been made to provide a comprehensive description of the region's physical geography. Use has been made of historical material as seemed appropriate. An ecological approach informs the later chapters in which changes in settlement pattern are examined. Use is made of the ecological terms colonisation and spread employed by Hudson to describe the forms of change that can be detected over time. 24 Change itself is viewed as a continuous process, a temporal unfolding of spatial structures, rather than as a series of shifts resulting from historical accidents. The process of change is conceived as consisting of mechanisms and causes. Mechanisms are the ways in which patterns can be seen to change (spread, competition) or to be perpetuated (equilibrium). Causes are the social, economic or physical conditions which formed the perceptual environment of men and either required action or were met with inertia, as the case may be. Casual situations are rather difficult to reconstruct for the Mani because of the problems over historical data, but the basic characteristics of the physical setting can be described as the necessary stage and backdrop mitante for the human drama, unfolding over more than 5,000 years.

References

- 1. British Staff, Greece. 1:100,000. Sheets M7 Yithion and N7 Tainaron. (1st ed., 1944).
- 2. A.R.H.Baker, A note on the Retrogressive and Retrospective Approaches in Historical Geography, Erdkunde, 22 (1968), pp.243-44; M. Bloch,

 The Historian's Craft, (Manchester, 1954), pp.43-46; J.L.M.Gulley,

 The Retrospective Approach in Historical Geography, Erdkunde, 15 (1961) pp.306-09.
- 3. Bloch, <u>ibid</u>., pp.29-32; D.H.Fischer, <u>Historians' Fallacies</u>.

 Towards a Logic of Historical Thought, (London, 1971) p.166.
- 4. W. Leontief, When Should History be Written Backwards? Economic History
 Review, n.s. 16 (1963), pp.1-8.
- 5. F. Sauerwein, Das Siedlungsbild der Peloponnes um das Jahr 1700, Erdkunde, 23 (1969), pp.237-44.
- 6. A. Beuermann, Kahvien-Dorfer im Peloponnes, in Ergebnisse und Probleme

 moderner geographischer Forschung. Hans Mortensen zu seinem 60. Geburtstag.

 (Bremen, 1954), pp.229-38; A. Philippson, Der Peloponnes. (Berlin, 1892),

 pp.583-84.
- 7. For example, <u>Kayvia Vezani</u> marked on the eastern edge of the 'Elos Plain on the <u>Carte de la Morée</u> of c.1830.
- 8. Carlo du Fresne, Domino du Cange, <u>Glossarium de Scriptores Mediae</u>
 et <u>Infirmae Graecitatis</u>, (Paris, 1688; répression du Collège de
 France, 1943).
- 9. Appendix II
- 10. In 1962-63, the settlement possessed 4 coffee houses, 3 general shops, a butcher and a baker.
- 11. Places with 2,000 to 9,999 inhabitants, National Statistical Service of Greece, Statistical Yearbook of Greece, 1966 (Athens, 1967) p.13

- 12. But Colokhina was identified quite specifically with ancient Gythium by Le Sieur de la Guilletière (A.G.Guillet)
 - a. Athènes, ancienne et moderne, (Paris, 1675) p.56;
 - b. <u>Lacedamone. ancienne et nouvelle</u>, (Paris, 1676), Vol 1, p.63.
 This is probably erroneous.
- 13. D. W. Harvey, Geographical Processes and the Analysis of Point
 Patterns: Testing Models of Diffusion by Quadrat Sampling,

 Transactions of the Institute of British Geographers, 40 (1966),
 pp.81-95.
- 14. B.P.Birch, On a Theory for Rural Settlement, Annals of the Association of American Geographers, 60 (1970), pp.610-14; J.C.Hudson, A Location Theory of Rural Settlement, Annals of the Association of American Geographers, 59 (1969), pp.365-81.
- 15. G. Olsson, Complementary Models: A Study of Colonisation Maps, Geografiska Annaler, 50B (1968), pp.115-32.
- 16. P.J.Clark and F.C.Evans, Distance to Nearest Neighbour as a Measure of Spatial Relationships in Populations, Ecology, 35 (1954) pp.443-53.
- 17. D.A.Pinder and M.E. Witherick, The Principles, Practice and Pitfalls of Nearest Neighbour Analysis, Geography, 57 (1972), pp.277-88.
- 18. Ibid.
- 19. J.P.Cole and C.A.M.King, Quantitative Geography, Techniques and Theories in Geography, (London, 1968), pp.56-57.
- 20. Pinder and Witherick, op.cit.
- 21. The use of statistical techniques with incomplete historical data has been criticised by A.R.H.Baker, J.D.Hamshere and J.Langton (eds.)

 Geographical Interpretations of Historical Sources, (Newton Abbot, 1970), p.18. The use of nearest neighbour analysis is justified here because it is employed largely to provide objective descriptions of static but complex situations.

- 22. P.J.Clark, Grouping in Spatial Distributions, Science, 123 (1956), pp.373-4.
- 23. British Staff, op.cit.; National Statistical Service of Greece, Atlas of Greece, 1:200,000 (Athens, 1965)
- 24. J. Brunhes, <u>Human Geography</u>, abridged by M. Jean-Brunhes Delamarre and P. Deffontaines, trans., by E.F. Row, (London, 1952), p.31;

 A. Demangeon, <u>Problèmes de Géographie humaine</u>, (Paris, 1942, p.508);

 P. Vidal de la Blache, <u>Principles of Human Geography</u>, edited by E.de Martonne, trans. by M.T.Bingham, (London, 1926), p.281

 For Greece: A. Philippson, <u>Der Peloponnes</u>, (Berlin, 1892), pp.580-96;

 E.C.Semple, Climatic Factors in Settlement and Water Supply, in her

 The Geography of the Mediterranean Region: Its Relation to Ancient History (London, 1932) pp.539-75.
- 25. Vitruvius, De Architectura, VIII.
- 26. Nevers' sources: <u>Instructions</u>, 1617, published by J.A.Buchon,

 Nouvelles Recherches historiques sur la Principauté française de Morée

 Vol. 1 (Paris, 1843) pp.277-79.
- 27. E. Raisz and J. Henry, An Average Slope Map of Southern New England,

 Geographical Review, 27 (1937), pp.467-72, quoted by F.J.Monkhouse and

 H.R.Wilkinson, Maps and Diagrams, (1st. ed., London, 1952) pp.78-82.
- 28. Cole and King, op.cit., pp.129-33, 135.
- 29. Hudson, op.cit.

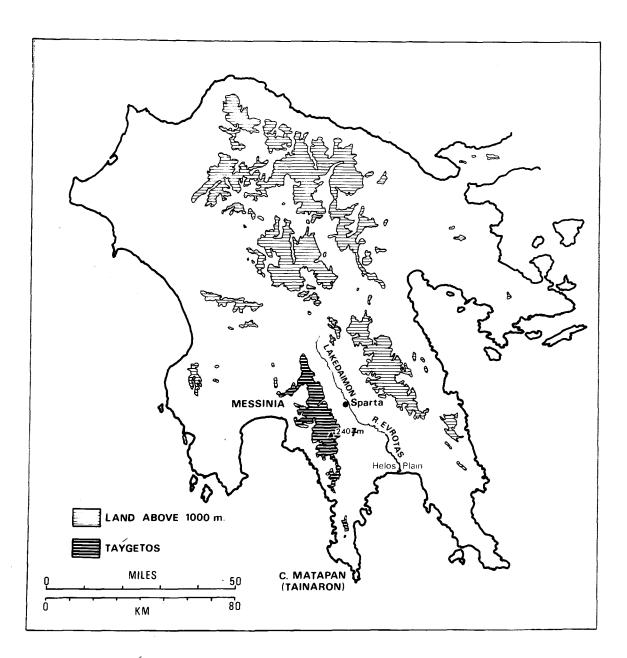


Figure 13: Taygetos Mountains

CHAPTER 4: THE MANI

Introduction

"A mighty mountain rises high above Moréa, its place is in Lakonia, a place just like Pieria.

Taygeton they called it, the ancient Spartiatai, but Makrynon 'Elian say the modern Maniatai.

Down from there some lesser mountains run, right down unto the cave upon Cape Matapan.

And to these mountains there the ancient Spartiati fled, the same who are today as Maniatai bred."

Put more prosaically, the Mani () Mary) is the region formed by the western and southern parts of the Taygetos range of mountains (Fig. 13). It is the middle one of the three peninsulas which project into the Mediterranean Sea from the Peloponnisos (the Morea), and ends in Cape Tainaron (or Matapan). Although people outside the region, who generally feared its inhabitants, called the southern district Kakavounia ("Evil Mountains") or Kakavoulia ("Land of Evil Counsel"), the Maniats themselves traditionally recognised three major sub-regions (Fig.14) - 'Exo Mani ("Outer Mani"), with its northern frontier on a disputed line between the head of the Gulf of Messinia and the crest of the Taygetos Mountains; Mesa Mani ("Inner Mani"), extending from the mountain crests to the sea over much of the south-western part of the peninsula; and Káto Máni ("Lower Mani"), forming the eastern side of the region from the hills at the head of the Gulf of Lakonia southwards to the Kritiri peninsula which ends in Cape Tainaron. 2 This study is concerned with the core of the Mani formed by its last two subdivisions which have been more or less fossilised into the modern 'eparkhies' of Yithion (Kato Mani) and Oitilon (Mesa Mani). Collectively, they will be referred to as the study region when the Mani would appear ambiguous.

^{*} originally "provinces" but now subdivisions of nomi and therefore similar to English "hundreds" before the nineteenth century reforms.

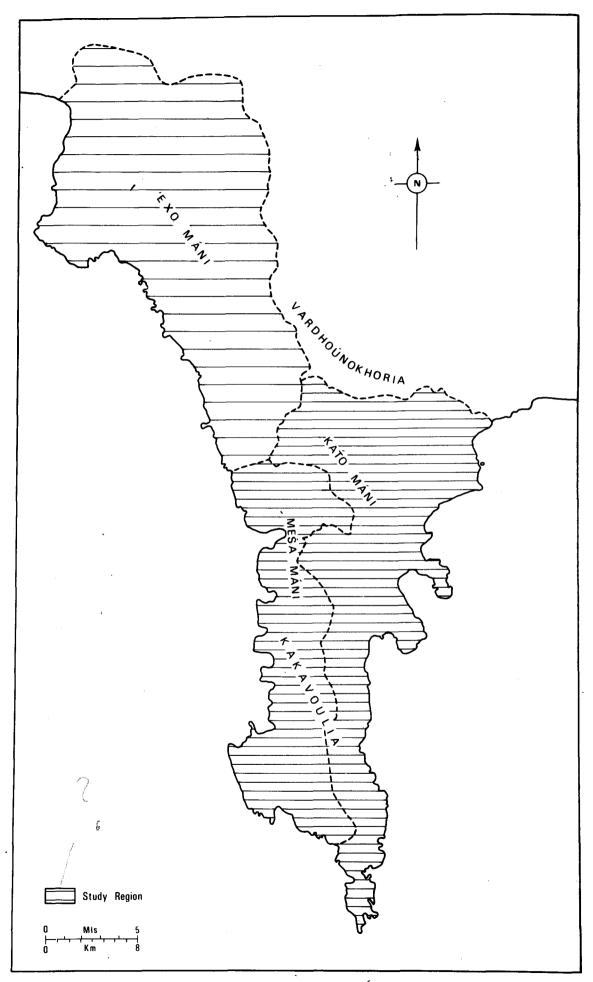


Figure 14: "Traditional" Subdivisions of the Mani

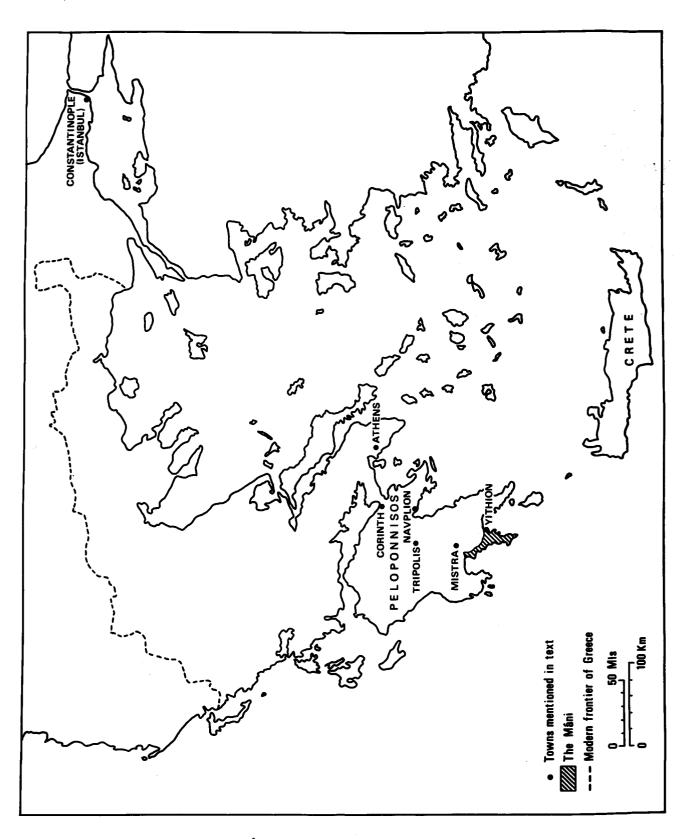


Figure 15: Position of the Mani in Greece

Position

Position meant that the region was remote but never completely isolated, of great importance in Mediterranean strategy and well within the zone of Mediterranean climate. As the southernmost district in mainland Greece (Fig.15), the Mani was distant from the imperial capital on the Golden Horn and from provincial administrative centres in the Morea, variously situated at Gorinth, Navplion (Napoli di Romania) and Tripolis (Tripolitza). Access to the regional centre of Lakonia, whether ancient Sparta or later Mistra, was arduous but, at about 12 hours' ride from Yithion (Marathonisi) by horse, 3 it was by no means difficult.

The Mediterranean Sea is often conceived as having western and eastern basins, but a third one may also be recognised. This lies between Calabria and Sicily in the west and Crete (Candia) and the Cyclades Islands (the Archipelago) in the east (Fig. 16). On several occasions in the past, this central basin has been a "zone of strife", and never more so than in the sixteenth and early seventeenth centuries when Spain and Turkey came into conflict. The Mani peningula projects into the basin and would have been then more or less in the disputed contact zone between the great empires. Following the success of the Holy League at the battle of Lepanto (7 October, 1571), am attempt was made to raise rebellion in Lakonia, whilst a Spanish force may have seized the Maniat fortress at Passava c. 1601, as the Venetians had taken and demolished the new fort above Porto Kaio some thirty years earlier during the Turko-Venetian war over Cyprus. Spanish viceroys in Sicily continued to intrigue with the Maniats, as did the Duc de Nevers from about 1612 to 1619, and the Turks retaliated by repressing savagely all signs of revolt on land and cruising off the Maniat coast.4

The strategic value of the region had begun earlier than the great-power clash between Spain and Turkey, and in some respects outlived it, for the region lies at the junction of two important sea routes. The major east-west route in the Mediterranean crosses the central basin between the

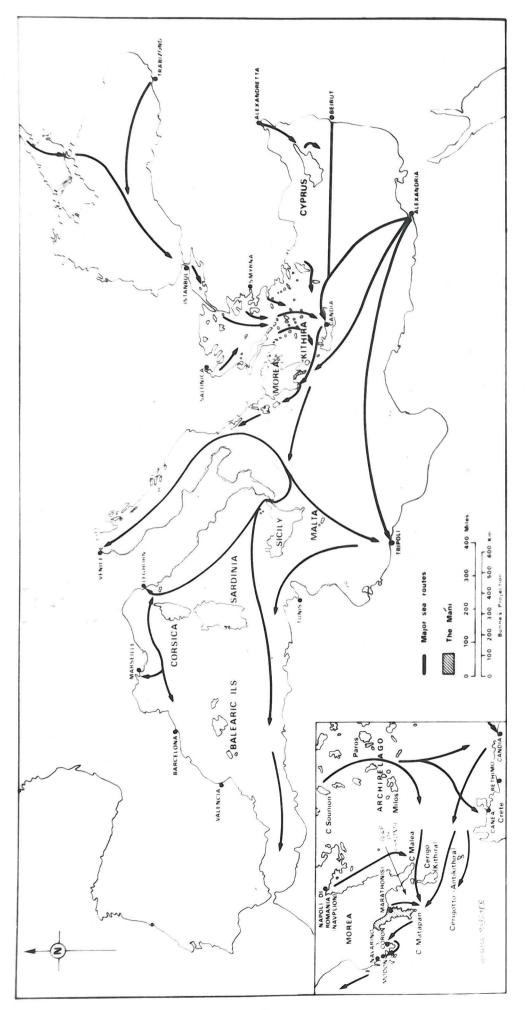


Figure 16: Position of the Mani in the Mediterranean

mainland of Greece and Crete. It is divided by the islands of 'Elafonisos, Kithira (Cerigo) and Antikithira (Cerigotto), and stabbed by the windswept capes of Tainaron and Maléa. The Kithira Passage was extremely hazardous in the days of sail. Massive seas and fierce winds tear through it in the winter season, as Homer knew, whilst sudden squalls sweep down from the mountains on either side⁵ and could easily disable even the largest sailing ships. It was at these moments of disaster that pirates moved into view from their hiding places around the islands and in the narrow bays near Tainaron.

Off Tainaron a second route joined the seaway. This came down from the Adriatic Sea and the Ionian Islands to Messinia, and then cut across the Messinian Gulf where ships were exposed to sudden squalls descending from the steep cliffs of the western Mani. Between Cape Grosso and Tainaron they ran the risk also of foundering on sunken rocks. Despite the hazards, this route was vital to Venice, which not only possessed considerable commercial interests in the "gorgeous East", but also ruled the wealthy islands of 'Evvia (Negroponte) and Crete for several centuries after the fall of Constantinople to the Fourth Crusade (1204), drawing from them much of her corn supply. Control of the route partly explains why Venice was interested in the Mani for so long and how she came to rule it between 1465 and 1479 during her expansionist phase under the unwitting protection of the Turk. The also helps to explain how so much of Maniat trade fell within the Italian orbit during medieval and modern times, though there were important trading contacts with the Archipelago and Istanbul to the east.

Climate, Vegetation and Resources

Position also determined the region's climate, which, in turn, shaped its natural vegetation and potential land use. Analysis of the available, largely qualitative information has suggested only minor changes in the climate of southern Greece during historical times. In the absence

of clear evidence to the contrary, modern data are taken to provide a picture of the general climate over the 5,000 years covered by the settlement investigation.

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Most of the climatic data have been taken from the island of Kithira since only precipitation statistics are available for the one local station at Yithion. They show that the Mani has the normal Mediterranean pattern of climate of hot summers followed by generally mild winters (Fig.17)⁹. But the graph does not adequately describe either the fierce heat and painful glare flung up from the limestones and marbles which form so much of the region's ground surface, or the bitter cold often brought by northerly winds blowing off the snow covered Taygetos and Parnon mountains and which send people huddling around their charcoal braziers and explain the presence of fireplaces in the older houses.

Winds are a great curse to the region. Sudden squalls swoop down from the mountains and over the cliffed coastline, making the waters around the peninsula treacherous, especially to small sailing craft, but a joy for pirates. Westerly gales have been a greater problem for the inhabitants. Although the position is not accurately shown by the Kithira data (Fig.18), because of the shelter provided to the island by the Mani itself, westerly gales are of great frequency and considerable strength. House roofs, which are traditionally pitched and made of massive stone slabs or Roman tiles, have to be weighted down with lines of stones, particularly on the exposed western side of the peninsula. Olive trees are stunted and bent, whilst the inhabitants told Leake in 1805 how the wind often destroyed their crops.

Drought is another serious problem, despite a moderate mean annual precipitation of between 535.0 mm (at Yithion) and 914.4 mm (at Kithira). Most precipitation is received as rain between October and March (Fig.17), though the higher mountains are frequently snow capped, and the summers are markedly arid, with only the prickly pear cactus (Opuntia ficus-indica) appearing to flourish. Amount and duration vary greatly from one year to

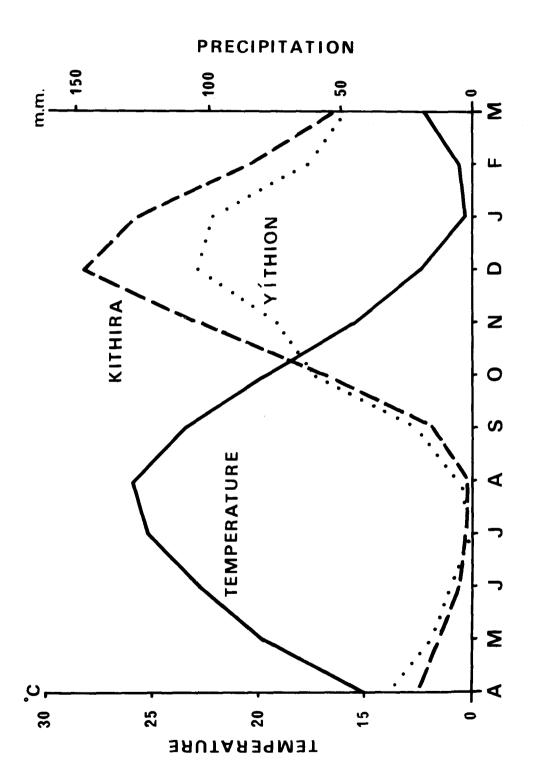
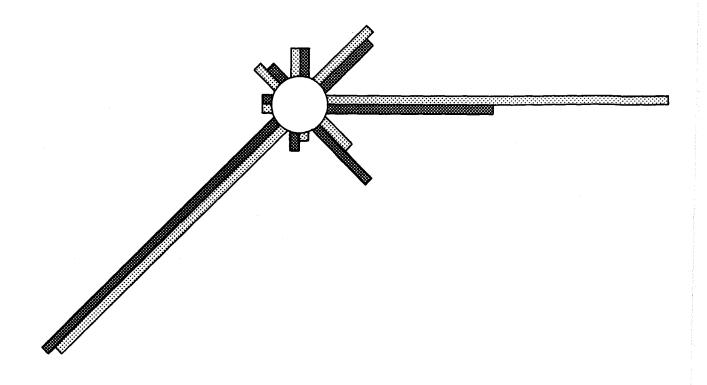


Figure : Climatic Data



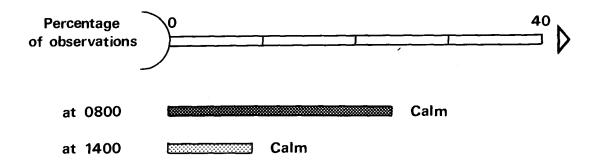


Figure 18: Mean Annual Wind Directions at Kithira

the next. In 1961 water tankers were necessary to supply the population, who normally depend upon rain water stored in cisterns. Lack of rain in April means a poor harvest in some years, thus possibly explaining the need to import cereals in the 1770s, a period when the region was considered to be self-sufficient in most years.

Natural vegetation and man's use of the land are adapted to these semi-arid conditions. Open Mediterranean forest may once have been characteristic of the region away from the exposed western coasts, but most of it has vanished. Three modern settlement names contain the element dry ("oak", "oak-tree") and are found in southern areas from which woodland is now totally absent (Fig.19). Philippson's land use map of the Morea and the account of his travels in the Mani show that woodland was more extensive in 1889 in the north-east than it is today, and noted a small amount on the east coast which has completely disappeared. 12 Woodland survives today only in rather scattered patches in the north of the region. Valonia oak (Quercus macrolepis or aegilopus) is the most widespread tree, and in the eighteenth and nineteenth centuries, if not before, supplied the valonia (acorn cups used in tanning and producing a black dye) which formed such an important part of the region's export trade. Prickly or kermes oak (Quercus coccifera) is also common in the surviving woodland, but fir (possibly Abies cephalonica) is confined to the higher slopes of the northern mountains. Bushes of kermes oak (prinari), however, are important constituents of the phrygana ("garrique") which, after generations of burning, clearance, cultivation and reversion, has replaced woodland over the greater part of the region. Prinari produced the gall-nuts (used to produce a fine scarlet dye) shipped from the region around 1800 and perhaps used for dyeing in the region during antiquity, whilst the aromatic shrubs supported the bees whose honey and wax were also valuable exports in the early nineteenth century. 13

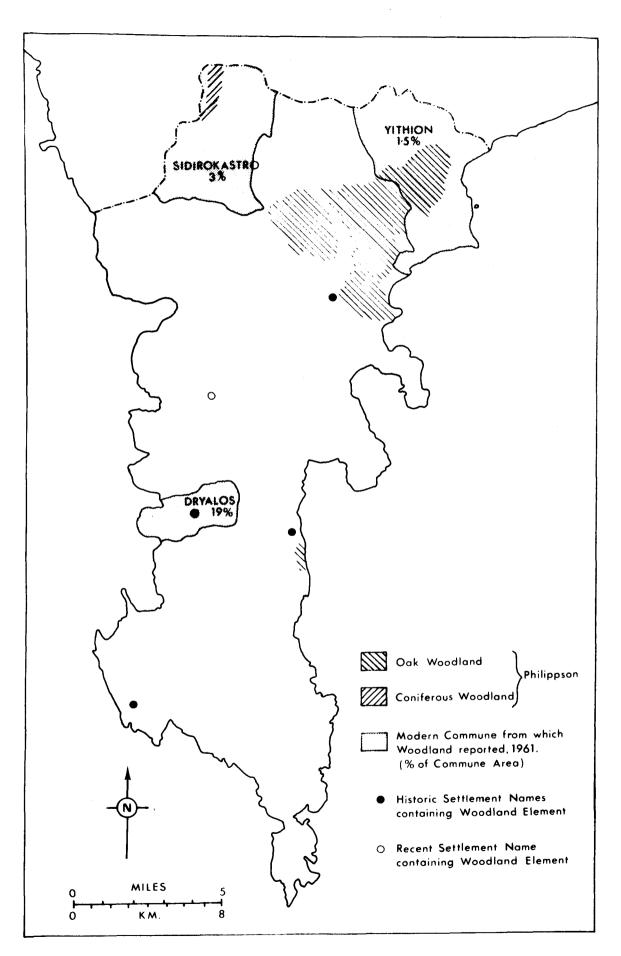


Figure 19: Distribution of Woodland in the Study Region

Phrygana may have been maintained by changed soil and water conditions following initial clearance some time in antiquity. as well as by the continuous foraging of women for kindling, but animal husbandty probably played some part. Although thorny and dry for much of the year. the assemblage contains plants whose leaves and shoots can be eaten by goats and the hardy local sheep. It is rather surprising, though, to discover that Philippson thought that there was little animal husbandry in the region at the end of the nineteenth century compared with other mountainous districts of the Morea. His conclusion is supported by modern data, for in 1961 the region nourished the relatively small figure of 17.880 goats and 17,844 sheep. 15 Few references were made to animals in the available historical sources. Leake saw 50 sheep and 12 oxen being driven into a yard in Tsimova one evening in April, 1805, and was told that the wealthier Maniats occasionally supplied the Morea with cattle. Conversely, Leake was also told that the Maniats imported cheese, a statement which might suggest that herding was of little importance to the early nineteenth century regional economy. 16 Pig-keeping might have been something of an exception, though based on kitchen refuse thrown into the yards rather than upon the resources of the phrygana and woodland. Certainly, Rodd was of the opinion that pigs did very well on lupins, widely grown in the region in the nineteenth century, 17 and singlino (a form of smoked pork) is still a popular winter dish with Maniats. The relative unimportance of more conventional forms of herding may be in sharp contrast to the situation in When antiquity. Pausanias's travel guide shows that Apollo was widely worshipped in the region, especially under the guise of Carneius ("The Ram"). 18 Apollo was especially associated with the care of flocks and herds, and it seems likely that pastoralism was once important to the local economy. Decline may have resulted from severe degradation of the pastures by overgrazing, or more likely, from shifts in the economy which are now difficult to trace.

Subsistence crops were selected to fit into the climatic regime and parallel the plants found in the natural vegatation. Although Leake. and Leroy before him, mentioned wheat and barley, 19 the main cereal crops were probably millet and maslin. Leake mentioned the importance of kalambókki (probably millet here), whilst millet and maslin together occupied 14.6 and 3.1 per cent of the cultivated land in Oitilon and Yithion 'eparkhies respectively in 1961. 21 Both were once very widespread in the poorer districts of Greece, and have the great advantages as far as the Mani is concerned of being tolerant of high temperatures and very efficient in their use of moisture. They may have been rotated with lupins (lupinus albinus) in the past to keep the land in continuous use, 22 and lupins, which are well adapted to the Mediterranean climate, were once found practically everywhere in the region. Towards the end of the nineteenth century, Philippson even called lupin seeds "the staple rook of the Maniats". since they were cooked and eaten by the Maniats in the same way as peas and beans 23 - crops which were mentioned by Leake. 24

Vines and olives are more normally associated with the Mediterranean region than lupins because of their drought resistant characteristics, and both were found in the Mani. Historical references to vines are scarce, 25 but smifficient to indicate that they were cultivated on a small scale, perhaps to produce the sharp rose drunk in parts of the region today. Olives were only mentioned occasionally, too, but the tenth century comment that the Maniats drew "their comfort" from them and the importance of olive oil in trade statistics for about 1800 together suggest that oleoculture was long significant in the region. 26 In 1961, olives covered 18.1 and 9.6 per cent of the cultivated areas of Oitilon and Yithion 'eparkhies respectively making the Mani one of the most important olive-growing districts in Greece. 27 However, this dominance of the cultivated land may be a fairly recent development, perhaps related to massive population growth in the region.

The normally scrupulous Philippson commented in 1889 that "only in recent decades has olive cultivation gained ground". The implications of this

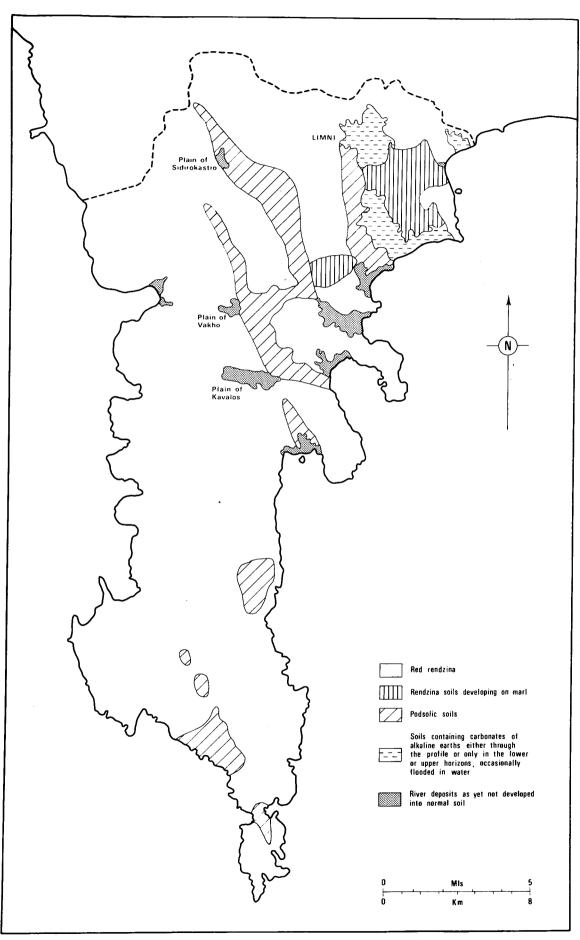


Figure 20: Soils of the Study Region

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statement might be that olive groves were rather scattered in the region before this and that there had been some contraction since the fifteenth century, when remarks by Cyriaco of Ancona suggest that they were widespread²⁹, the decline perhaps resulting from local wars caused by population pressure on limited land.

In 1961, only about 28 and 26 per cent of the total area of Oitilon and Yithion 'eparkhies were cultivated. 30 Abandoned terraces indicate that even in the recent past there was more land under crops, but at all times the amount of land which could have been cultivated must have been limited. Abundant manpower could produce expansive investment in terraces, but fundamental restraints were imposed by the type of soil and the type of terrain. Rendzinas are characteristic soils over most of the peninsula (Fig. 20). 31 They are stony and, though clearly eroded now, must always have lacked depth in this region of steep slopes and very hard rocks. Exceptions would be provided by the scattered hollows and basins of the Early of held die mountains.

Topography

As the opening lines of the poem by Nyphakis indicate, the Taygetos mountains run the length of the peninsula in a series of falling ridges and peaks, giving it a rather asymetrically-placed spine. (Figs. 21 and 22). Along much of the eastern side of the Mani, the marble mountains are precipitous and rugged, (Fig 23), with here and there areas of valley land and fragmented marine terrace which can be cultivated relatively easily. In the district of Malevri - broadly the north-eastern corner of the region mountains of Tripolitza limestone and dolomite merge with undulating terrain shaped partly from schists and softer limestones and partly moulded from clays, sands and marls which give brownish-coloured rendzinda soils of moderate depth and relatively good agricultural land. This enclave of lower land ends abruptly against the dissected edge of the arid plateau

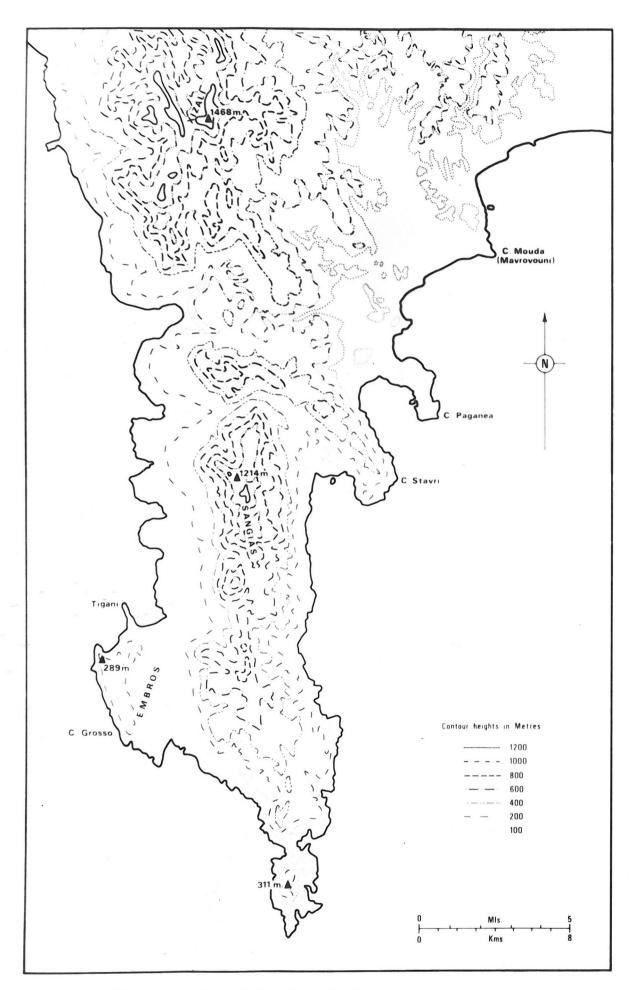


Figure 21: Contour Map of the Study Region

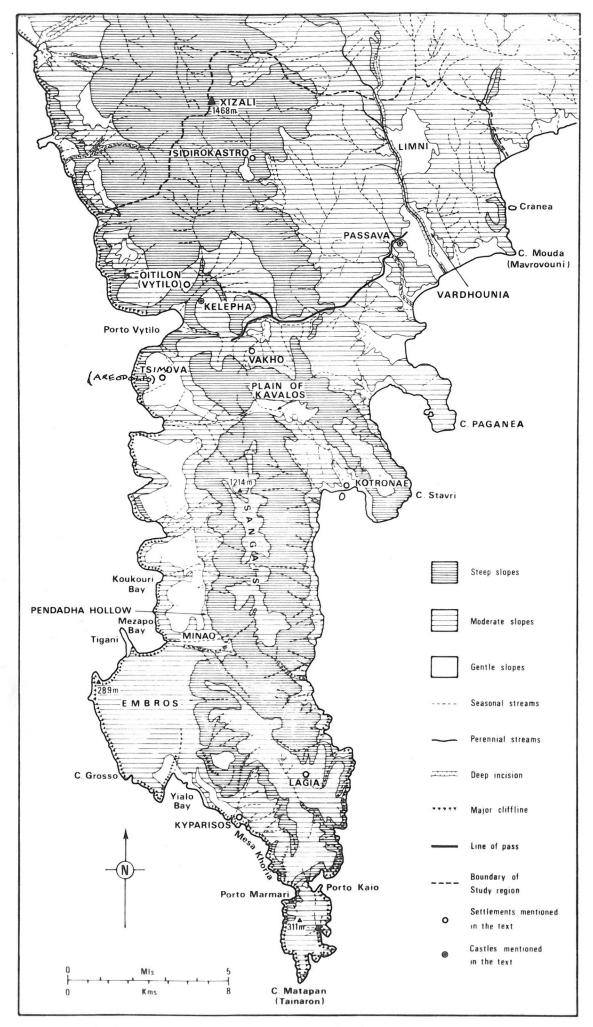


Figure 22: Physiography of the Study Region



Figure 23: East Coast, Looking North from Near Kokkála

of the Vardhounokhoria, which separates the Mani from the heart of Lakonia in the trough of Lakedaimon and from the marshy, dune-fronted 'Elos Plain lying about the mouth of the Evrotas river. The Vardouniots, many of them Muslim Albanians, were the fierce and long-standing enemies of the Maniats, so the north-eastern corner of the Mani was something of a frontier zone in modern times.

On their western side, the spinal mountains fall fairly abruptly (Fig. 24) to a high terrace which runs in discontinuous sections down practically the whole length of the peninsula (Fig. 25). Communications between the two sides of the peninsula are afforded by a number of routes (Fig. 22). Towards the south, a low col in the mountains affords a difficult and probably little-frequented route across the peninsula, while farther north access is provided through the narrow upland plain of Kavalos and its steep valley approaches. The most important east-west soute lies farther north still, and follows a series of inter-connecting valleys known as the Milolanghadha ("The Pass of the Mill"). It is defended at its eastern and western ends respectively by the medieval fortresses of Passava and Kelepha. Despite the fortresses, though, the pass was forced on several occasions, particularly by the Turks. In fact, the Maniat mountains provided only relative security to the population. To the Venetians, predominantly a sea power, the Mani appeared to be the citadel of the Peloponnisos. It was a strong base from which to launch the conquest of the rest of the Morea, as the Republic showed in the late seventeenth century and as the Byzantine government appreciated in the mid-thirteenth century when negotiating the ransom of Guillaume II de Villehardouin. 33 At the same time, the region could provide a refuge capable of defence for some time against superior forces. Again, at least one Venetian governor appreciated this fact, 34 but the point was proved by the inept attacks on the region by Ibrahim Pasha®s army in 1826 and the use of the northern mountains as a communist stronghold at one stage of the more recent Guerrilla or Civil War, 35 with its strong

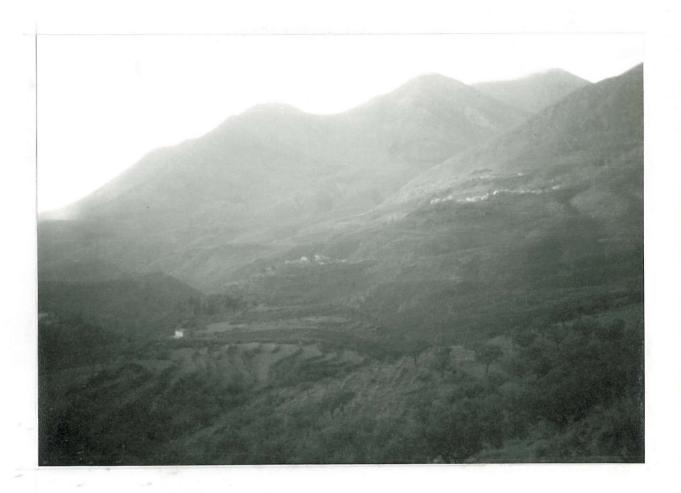


Figure 24% Western Part of the Taygetos Mountains in the North of the Study Region



a. North of Oitilon



b. West of Oitilon



c. Near Boulari

Figure 25: Marine Surface Zone

never completely inviolate to a competent and persistent enemy. That particular myth is shattered by recalling the absorption of the entire region by Sparta during the eighth century B.C., the uncontrolled depredations of Macedonian and Boeotian armies in 338 and 370 B.C. respectively, the Frankish conquest completed by about 1248, when Passavá and Kelephá were built, the Turkish conquests of about 1500 and 1715, as well as successive Turkish expeditions into the region, perhaps the most notorious being in the 1770s when the Mani was the centre of a serious rebellion inspired by Russia. 36

No traces of permanent occupation have been found so far in the mountains above about 800 metres, so it is reasonable to assume that the higher reaches have always been unattractive to permanent settlement. Indeed, the upper mountains seems to have been little used, unless there was some transhumance of sheep and goats in the past. Slopes here are generally steep, rugged and exposed, soils are thin and the winters snowy. Another largely negative area for permanent settlement has been the coast, though for different reasons. For much of its length the Maniat coast is steep or cliffed, so there are few locations suitable for settlements. Bays and inlets break the iron-bound coast, but some of them are so difficult of access from the interior of the peninsula that port development would be unlikely. This is especially the case with some of the inlets near Cape Tainaron, and occupation here has been related to such unusual activities as service in mercenary armies (during Hellenistic times) and privateering (in the 1790s).³⁷ The shape of the region means that internal communication is generally quicker by land than sea, given internal security or a system of safe conduct, while there seems to have been little in the way of fishing in Maniat waters to attract settlers. 38 What was probably a small amount of seasonal trade could be handled quite satisfactorily by skales, landing places with perhaps a storehouse and tower to provide a minimum of facilities.

As a sporadic and chancy business, piracy required no large or permanent bases. It is probably not without significance that the reappearance of permanent settlements on the coast during the eighteenth and nineteenth centuries was related to a period of expanding trade for the region. On the other hand, a long coastline with bays and inlets meant that the region could be attacked successfully from the sea by regular naval expeditions, not piratical raids, as the Turks appreciated in the seventeenth century and especially in the 1770s when the Mani was detached from the Pashalik of the Morea and placed under the control of the Kapudan Pasha (High Admiral), who successfully campaigned against the region on several occasions thereafter. 39

Away from the coast, some other physically difficult areas have seemed more attractive to settlements, especially in modern times. Valleys furrowing the east coast south of Kotronas (Kotronae) and some of the fragments of marine terrace there provided enough cultivated land to support a number of small settlements on the slopes above them. In antiquity, the main attraction of the district was provided by antico rosso, "a beautiful, hard, maroon or deepish purple marble" found near modern Dhimaristika, and the black stone of Taenarum which was esteemed "as much as many marbles". 40 Farther north, karstic basins in the vicinities of Pyrrikhos (Kavalos) and Sidirókastro contain comparatively deep and potentially productive soils which, in the former case, have certainly been exploited since ancient times. Water is also available, either from wells or from springs situated at the contact of limestones and schists. At the opposite end of the peninsula, in the Mesa Khoria and the Kritiri peninsula, patches of dissected semimetamorphosed rocks, largely schists, provide easily terraced and worked soils (Figs. 26 & 27). In the Mesa Khória they have been cultivated in modern times from a number of settlements perched high on the hills above their fields but in antiquity they supported the coastal polis of the Taenarians, with its focus originally at Taenarum but later at Kaenepolis



Figure 25: Mountains and Basin in the Mésa Khória



Figure 27: Terraces in Kritiri

(modern Kyparissos). An iron deposit near Porto Kaio may have provided additional attractions in ancient times, as may the famous temple of Poseidon near Cape Tainaron. Another iron deposit at Skala near Vakho⁴¹ may partly explain the small concentration of settlements in that vicinity in modern times, though cultivable land was also available in a rather irregularly-shaped basin.

Judging by the numbers of settlements, much more attractive areas than those described so far were to be found in the north-eastern corner of the region, along the western side of the peninsula from Oitilon (Vytilo) to Cape Grosso and in the hinterland of Kotronas. A small patch of schists has been eroded behind Kotronas to form a series of valleys within the same mountain-fringed basin. In ancient times, the area supported the polis of Teuthrone, and in modern times, it has nourished up to a dozen separate settlements.

Many more settlements have been found from at least the seventeenth century along the western side of the peninsula. Two areas have been of outstanding importance. The first is composed of the fragments of high terraces. probably of marine origin, 42 lying to the south of 'Areopolis (Tsimova) (Fig. 22). Considered as a single unit, the terrace zone measures 2 to 3 kilometres from west to east and falls in height from about 250 metres at 'Areopolis to about 120 metres west of Mina, some 14 kilometres farther south. The southern-most fragment supports the greatest number of settlements at the present time and it is easy to see why. There are two major terrace levels here, separated by a low cliff so that the eastern section is lower than the western part. The lower level is bounded on the east by moderately steep slopes, partly masked with massive scree, and takes on a trough-like character. The Hollow of Pendadha, 43 thus, contains some of the deepest, stone-free and water-retentive soil in a region where soils are extremely thin and spreads of small stones are characteristic. Terrace fragments farther north lack this advantage. but almost flat if rocky land between the mountains and the sea cliffs does provide opportunities for cultivation. The labour to clear this land must

have been immense, for the cleared stones have been piled into great rough walls the crops with some protection against the accursed wind. They are also a monument to population pressure in the past. Neither here nor around the Pendadhahollow are there any natural sources of water because of local geological conditions and the people are dependent upon numerous cisterns sunk into the hard marble surface, covered with slabs and lined with mortar.

The other area in the Mesa Mani where settlements have been concentrated since at least the early seventeenth century, and which supported at least one polis in antiquity (Hippola), is now known as the *Embros ("The Foreland"), since it projects out from the rest of the peninsula as a great arc of rising ground (Fig. 28). The 'Embros is composed of a number of sharply defined terraces, each tilting slightly to the west to give a depression before the next terrace rises above it (Fig. 29). The whole flight ascends westwards through Katopangi from a now well-settled depression, known as Niklianiko, running along the mountain foot. Then it plunges directly into the sea from the narrow Makryna ridge (> 150 metres), part of which was probably the acropolis of ancient Hippola. The depressions and their relatively deeper, moister soils seem to have been the major attraction for settlers, though additional attractions may have been, possibly at different times, easily quarried poros on the north coast, the possibility of retreat behind the remodeled but basically prehistoric fortifications of the Tigani ("Frying Pan"), and the near invisibility of many settlements from the sea. Stones and lack of water sources, though, make cultivation and general subsistence only marginally better than districts farther north. Indeed, the harsh life of the Kakavouliotes was one of the sub-themes of Nyphakis' poem and was briefly described by Leake and Carnarvon. About 1800, the children looked wrinkled and old before their time, probably because of malnutrition. Famine was never very far away because of wind

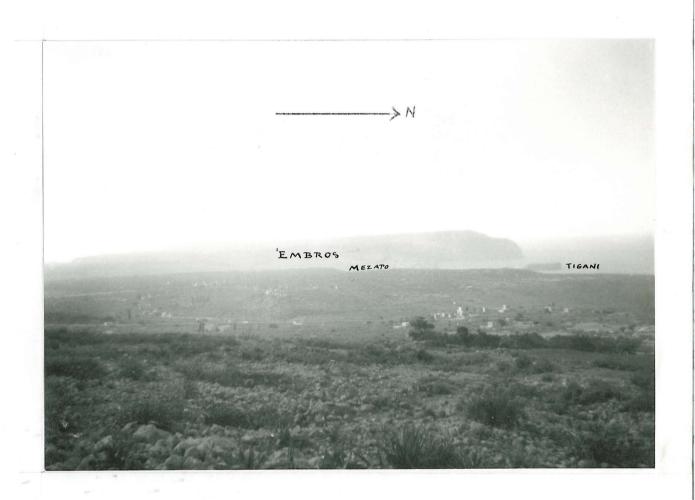


Figure 25: South End of the Marine Surface Zone with the 'Embros

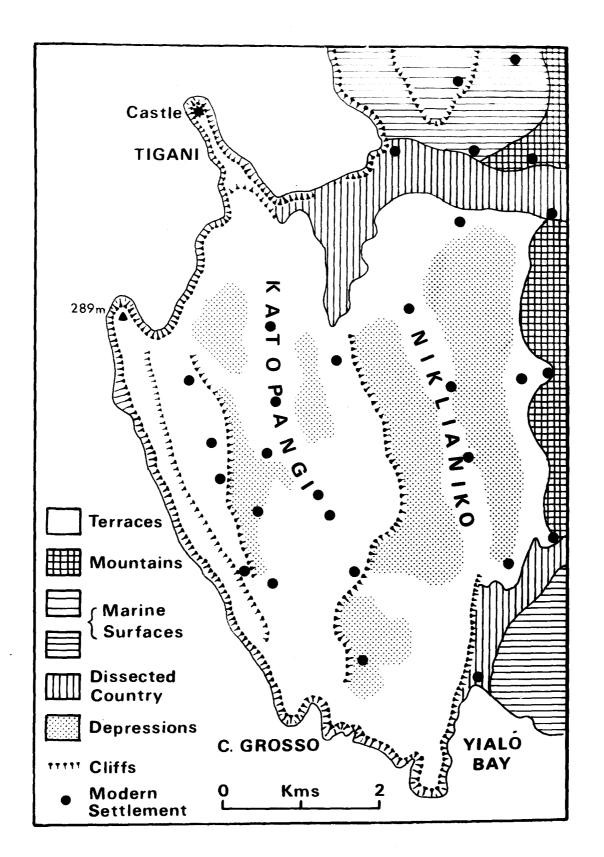


Figure 25: The 'Embros

devastation and the occasional failure of the rains.

A more attractive environment seems to be afforded today by the arc of undulating country lying north of Cape Stavri between the mountains and the sea, with focus in modern Yithion (formerly Marathonisi; ancient Gythium) (Fig. 30). Flat or round-topped hills are common here, separated by the relatively wide valleys of the Vardhounia river, the Turkovrissi and their tributaries (Fig. 31). These contain at least a trickle of water throughout the year. A number of small plains have developed where the streams reach the sea, and there is a large alluvial tract inland at Limni (Fig. 32). Wells are found here, as well as in the neighbouring valleys and coastal plains, and they probably supplied much of the drinking water in the past. as they do now. Leake saw the Vardhounia being used to irrigate maize on an estate near Mavrovouni, and cotton was widespread in the coastal district during the early nineteenth century. 46 At that period, the hills supplied much of the valonia and gall-nuts exported from the region, almost exclusively through Marathonisi, and in some areas there were mulberry plantations supplying the basis for the region's silk exports. 47

Despite the north east's apparent prosperity in the early nineteenth century, tracts of mosquito-breeding marsh were still widespread, and the available evidence suggests that recolonisation had begun in the area not long before the War of Independence began. There seems to have been a gap in settlement history between the late Roman period and the early eighteenth century, for the area contained the greatest concentration of settlements in the study region during the second century A.D. The physical environment seems to have changed between the two periods. Submerged walls at Yithion and Skutari indicate a change in the relative position of land and sea of about 2.5 metres and 3.5 metres respectively since antiquity. The existence of marshes and wide alluvial flats probably point to the build up of "younger fill" here, as elsewhere in the Mediterranean basin, 49 from late Roman times. Chapter 6 will argue that this deterioration in ecological conditions was a major factor in the abandonment of the area during early



Figure 30: North-eastern Area: Panorama



a. Vardhounia



b. Turkovrissi

Figure 31: River Valleys in the North-east Area

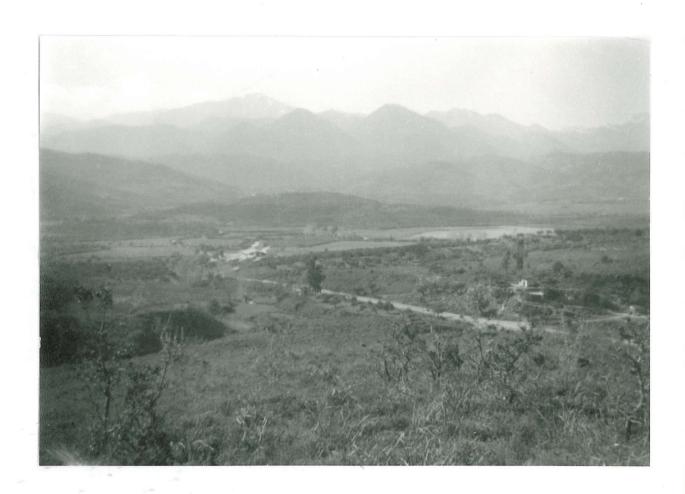


Figure 32: Flooding in the Vardhounia Valley Near Limni, Winter 1962-63

medieval times and an important reason for its apparent emptiness down to the eighteenth century. The area's attractions in the Bronze age and Roman period seem clear from the number of settlements known to have existed there, and more may be buried under the "younger fill", but the quality of valley land is likely to have been inferior to that of to-day. Indeed, the prime reasons for settling the Maniat all in prehistoric times may have been more related to trade and communications than to the region's agricultural possibilities, which, to judge from the widespread veneration of Demeter and Dionysius, attested by Pausanias, were known to be limited. Initial colonisation and subsequent spread in antiquity are the themes of the next chapter.

References:

1. N. Núgarog -

Μεγάλο βουνο βρίσκεται Έπάνω στο Μορία
στον τόπο τῆς Λακωνικῆς, ώσὰν τῆν Πιερία.
Ταύγετον τὸ "ελεγαν οἱ παλαιοὶ Σπαρτιάται,
καὶ Μακρυνον τὸ λέγουσι, Ήλίαν οἱ Μανιάται.
Εῖναι καὶ "αλλα περισσά βουνὰ μικρότερά του
άπὸ τὸν κάρο Ματαπά "ειος 'ξκεῖ κουτά του.
Σ' ἀὐτά τὰ "ορη θύγανε, οἱ παλαιοὶ Σπαρτιάται,
καί εῖν' ἀὐτοί ποὺ λέγονται τῆν σημερον Μανιάται.

Freely translated from the version published by A. B. Agust pakou-Meriokky, Di Núkkiavoi, (Athens, 1949), P. 190.

- 2. J. D. Barbié du Bocage, Carte de la Morée dressée et gravée au dépôt general de la guerre par ordre du government en 1807, (Paris, 1814); W. Gell, Narrative of a Journey in the Morea, (London, 1823), p.260; W.M. Leake, Travels in the Morea, (London, 130), Vol. 1, pp.261-63; Núfakos, op.cit.; T. Oikovomákos, Xásty, tys Mávys, (Athens, 1925).
- 3. Calculated from travel times reported by Leake, ibid., pp.133-233.
 - J.A. Buchon, Nouvelles recherches historiques sur la Principauté
 française de Morée et ses hautes baronies à la suite de la quatrième
 crusade, (Paris, 1843), Vol. 1, pp. 241, 243; M. Coronelli,
 An Historical and Geographical Account of the Morea, Negroponte and
 the Maritime Places as far as Thessalonica ..., (London, 1684), pp. 102-103;
 J. von Hammer-Purgstall, Histoire de 1º Empire Ottoman, depuis son
 origine jusqu'a nos jours, Vol. 8 (Paris, 1837); V. Lamansky,
 Secrets d'Etat de Venise ..., (St. Petersburg, 1884), 087-089;
 M.O. Λάσκαρι, Έκκλησεις του Έπισκοπου Μάνης Νεοφύτον
 προς τους Ισπαννους (1612-17) διὰ τῆν ἀπελευθέρωσιν τῆς
 Πελοποννήσου, Έλληνί , 15 (1957), pp. 293-310.

- 5. Admiralty, hydrographic Department, <u>Mediterranean Pilot</u>, Vol. III, (8th ed., London, 1957), pp.53-62; Vol. IV, (8th ed., London, 1955), pp.75-98
- 6. F. Bleaufort, Karamania, (London 1817), pp.219-20; Le Comte de Choiseul-Gouffrier, Voyage pittoresque de la Grèce, Vol. 1, (Paris, 1782), pp.10-11;

 H.A. Ormerod, Piracy in the Ancient World (Liverpool, 1924), pp.26-28;

 C.G. Pitcairn-Jones (ed.) Piracy in the Levant, 1827-28, (London 1934), pp.39-59.
- 7. D.S.Chambers, The Imperial Age of Venice, 1380-1580, (London 1970), p.45; C.N.Sathas, Documents inedits relatifs a l'histoire de la Grèce au moyen âge, Vol. 6, (Paris, 1884), pp.2-72, 224-26; F. Thiriet, La Romanie vénitienne au moyen âge, (Paris, 1959).
- 8. E.G. Mariolopoulos, An Outline of the Climate of Greece, University of Athens Meteorological Institute, (Athens, 1961); H.E.Wright, Climatic Change in Myrennean Greece, Antiquity, 42 (1968) pp.123-27.
- Air Ministry, Meteorological Office, Tables of Temperature, Relative

 Humidity and Precipitation for the World, Part III, Europe and the

 Atlantic Ocean North of 35° North, (London, 1958) p.41; Mediterranean

 Pilot, op.cit., Vol. IV, p.30. Data for Yithion for the years 1915,

 1918-30 were kindly supplied by the Greek Ministry of National Defence,

 National Meteorological Service, but some figures for this station were

 published by A. Philippson, Das Klima Griechenlands, (Bonn, 1948) p.91.
- 10. Leake, op.cit., p.283.
- 11. Leake, op.cit., pp.242, 309; F.C.H.L. Fouqueville, Travels in the Morea (London, 1813) p.103.
- 12. A. Philippson,

 a. <u>Der Peloponnes</u>, (Berlin, 1892), pp.223-26

 b. Zur Vegetationskarte des Peloponnes, <u>Petermanns</u>

 <u>Geographische Meitteilungen</u>, 41 (1895), pp.273-79.
- 13. Trade items given by Leake, op.cit., pp.242,281; F.C.H.L. Fouqueville,

 Voyage en Morée à Constantinople (Faris, 1805), Appendix III;

 X.Scrofani, Voyage en Grèce de Xavier Scrofani ..., (Paris and Strasbourg,

- 1801), Table 10a. Pausanias III. 21.5 mentioned purple-dyeing on the Gulf of Lakonia but attributed it to the availability of "the best shell fish" for its manufacture.
- 14. Philippson, Der Peloponnes, op.cit., p.251.
- 15. B. Kayser and K. Thompson, Economic and Social Atlas of Greece,
 (Athens, 1964) p.320.
- 16. Leake, op.cit., pp.309, 311.
- 17. J. Galt, Voyages and Travels in the Years 1809, 1810, and 1811,

 (London, 1812) p.154; R. Rodd, The Customs and Lore of Modern Greece,

 (London, 1892) p.71.
- 18. Pausanias, 111. 21.5-22.3; 24.6-25.10.
- 19. L'Abbé Sevin, Lettres sur Constantinople, (Paris, 1802), p.127;
 Leake, op.cit., p.283.
- 20. Leake, op.cit., pp.242, 266, 309. Leake's use of the word kalambókki is a little confusing and in some contexts may refer to maize.
- 21. Kayser and Thompson, op.cit., 307.
- 22. Sevin, op.cit., p.127. Repeated by D and N. Stephanopoli,

 Voyage de Dimo et Nicolo Stephanopoli en Grèce pendant les années V et VI

 (1797 et 1798), Paris, 1800), Vol.2. p.37,
- 23. Philippson, Der Peloponnes, op.cit., p.223.
- 24. Leake, op.cit., p.283
- 25. Leake, op.cit., pp.266, 292-93; J. Longnon and F. Topping,

 Documents sur le régime des terres dans la Principauté de Morée au

 XIVe siècle, (Paris and The Hague, 1969), Document I, pp.19-29;

 R. Sabbadini, Ciriaco d'Ancona e la sua decrizzione autografa del

 Peleponneso trasmessa da Leonardo Bottà, Classici e Umanisti da Codici

 Ambrosiani, Fontes Ambrosiani II, (Florence, 1923), pp.25, 28.
- 26. Leake op.cit., p. 242; Longnon and Topping, op.cit., G. Moravcsik and R.J.H.Jenkins, Constantine Porphrogenitus, De Administrando Imperio, (Budapest, 1950), 50.70-82; Pouqueville, Voyage en Morée à Constantinople op.cit., Appendix III; Sabbadini, op.cit., pp. 25, 28; Scrofani, op.cit., Table 10a.

- 27. Kayser and Thompson, op.cit., 316.
- 28. Philippson, Der Peloponnes, op.cit., pp.226-27.
- 39. He used the term oliverferis villis, Sabbadini, op.cit., p.28.
- 30. Kayser and Thompson, op.cit., 301.
- 31. I. A. Zvorykin and G.K. Sfogiannis, Soil Map of the Peloponnesus, (Athens. 1958).
- 32. Geological information is taken from A. Philippson, Geologische Karte

 des Peloponnes, (Berlin, 1891); C.Renz, N.Liatisikas and I.Parasevaides,

 Geologic Map of Greece, Institute of Geology and Subsurface Research,

 (Athens, 1954).
- 33. K. Andrews, <u>Castles of the Morea</u>, (Princeton, New Jersey, 1953), p. 24; D. J. Geanakoplos, <u>Emperor Michael Palaeologus and the West</u>, (Cambridge, Mass., 1959), pp. 47-74.
- 34. Francesco Grimani, quoted by Andrews, op.cit., pp. 38-39.

TO DODWING, (Athens, 1967).

35. A. B. Baylakákou, O Impaju Evartion 175 Máry, (Athens, 1961);
R. Common, Some Recent Developments in Greece, Tijdschrift voor

Economische en Sociale Geografie, 49 (1958), pp. 253-66.

A. Toynbee, Sparta's Conquest of Laconia and Messenia, in his Some

- Problems of Greek History, (Oxford, 1969), pp.163-88; Xenophon, Hellenica, VI.5.32; Polybius, V.19.4-8;

 A.Bon, La Morée franque ... (1205-1430), (Paris, 1969), pp.497-98;

 K. A. Méstylou, Noté καὶ Μως Επεσευ 'η Μάνη είς Χείσας

 Τῶν Τούρκων Το 1715, Πελοποννησιακα, 3-4 (1958-59), pp. 276-87;

 N. Iorga, Chromique de l'Expedition des Turcs en Morée, 1715, attribuée

 à Constantin Dioikétès, (Bucharest, 1913), p. 204; Γ. Α. Γριτσοπουλου,
- Diodorus Siculus, XII. 108.7; XVIII. 311-3, 9.1-2, 21.1-3; XX.104.
 1-2; G. Finlay, A History of Greece from its Conquest by the Romans
 to the Present Time, B.C. 146 to A.D. 1864, Vol.5, (Oxford, 1877), pp.272-73.

- 38. Philippson, Der Peloponnes, op.cit., p.251.
- 39. Finlay, <u>op.cit.</u>, pp.116-17, 192-94, 265-66, 272-73; Z.B. Κουγέκ, 'Ιστορικκὶ Τηγκὶ διά την Ήγεμονίαν της Μάνης (1774-1921), <u>πελοπονησιακκ</u>, ε (1962), ρρ. 60-136; Leake, <u>op.cit.</u>, p.207; Pouqueville, <u>Travels in the Morea</u>, op.cit., p.100.
- 40. Pliny, Natural History, XXXVI, 28. 135, 42.158; Strabo, VIII.5.7;
 P. Warren, Minoan Stone Vases, (Cambridge, 1969), p.126;
 H. Waterhouse and R. Hope Simpson, Prehistoric Laconia, Part II,
 Annual of the British School at Athens, 56 (1961), pp.114-78.
- 41. O. Davies, Roman Mines in Europe, (London, 1935), pp. 254-56.
- 42. Terrace zone discussed by J. Petrochilos, Sur l'histoire du Quarternaire de la presqu'île de Mani (Peloponnese) <u>Premier Congrès International</u>

 de Spéléologie, Actes du Congrès, Vol.2, (Paris, 1953) pp.257-60;

 Philippson, <u>Der Peloponnes, op.cit.</u>, pp.227-28, 240-42.
- 43. So called from the five original villages grouped around it.
- 44. Probably first mentioned by Leake, op.cit., pp.283,288.
- 45. Leake, op.cit., p.309; Pouqueville, <u>Travels in the Morea, op.cit.</u>, pp.113.
- 46. W. Black, Narrative of Cruises in the Mediterranean in H.M.S.Euryalus and Chanticleer during the Greek War of Independence, 1822-26 (Edinburgh 1900), pp. 244-45; Leake, op.cit., pp. 255, 266.
- 47. Leake, op.cit., pp.132, 240-43, 280; Philippson, Der Peloponnes, op.cit., p.216.
- 48. N.C.Fleming, Holocene Earthmovements and Eustatic Sea Level Change in the Peloponnese, Nature, 217 (1968), pp.1031-32.
- 49. C. Vita-Finzi, The Mediterranean Valleys, (Cambridge, 1969),

CHAPTER 5: SETTLEMENT ORIGINS AND DEVELOPMENTS TO. C. A.D.174

The previous four chapters have put the problem of settlement retreat in context, discussed the source material available for tackling it in a particular region, set out the necessary methodologies and described the experimenter setting (the region) within which settlement pattern change was investigated. The next three chapters outline the results of the investigation. Each deals with reconstructed patterns of points and sites, and attempts to explain the changes or stabilities apparent from one time-horizon to the next.

The earliest traces of human occupation in the Mani come from the cave of Alepotripa, near Pyrghos. Pottery from this site has been assigned to the late Neolithic period (4000 - 3000 B.C.), and the excavator reports more traces of occupation in this period from the immediate vicinity of the cave. On the other hand, coarse pottery associated with fragments of obsidian recovered from the little island of Skopa, off modern Kotronas, has been assigned to the subsequent Early Helladic phase (3000-1900 B.C.), as have sherds picked up on a hill near Mavrovouni and at Spira. A plentiful scatter of obsidian on the island of Kranae, at Yithion, has suggested occupation in the same period, though pottery of recognisable type was absent. Taken together, the available evidence points to occupation of at least 4 sites in the study region during the Barly Helladic phase (Fig. 33) and other traces may be found by more thorough search. It is assumed that the settlements were nucleated, as in later times, though size and form are unknown. The sites are found in gentle or moderately sloping terrain, at heights well below 100 metres (except for Spira at about 100 metres) and situated on or very close to the present day coast (Table 4). They form part of a coastal

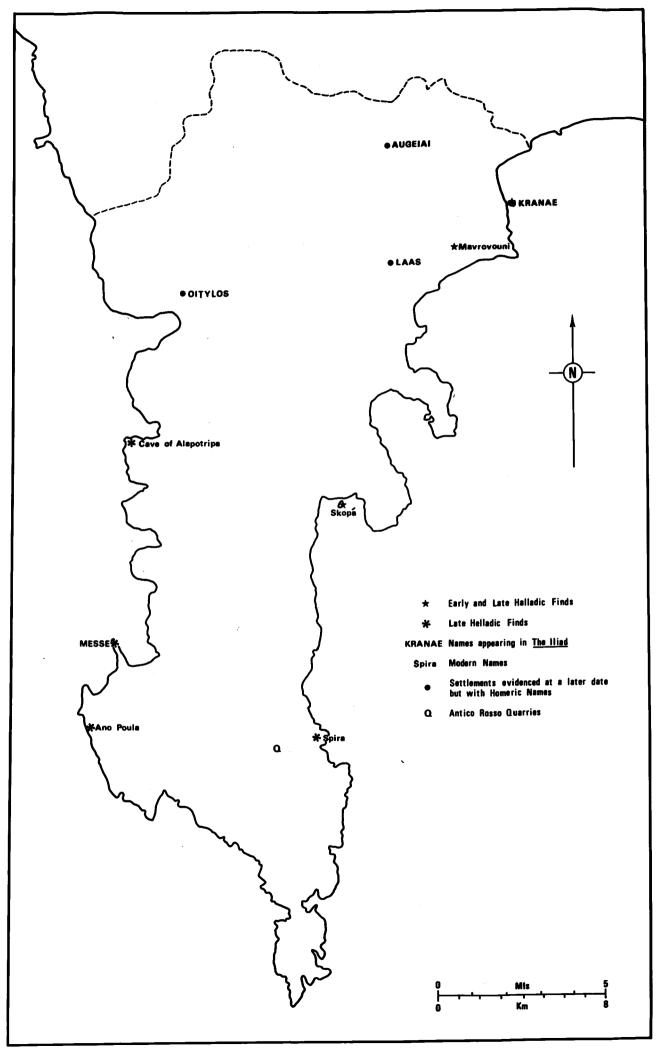


Figure 33: Bronze Age Sites in the Study Region

Table 4: Comparative Settlement Data

Early Helladic to Roman Periods

Characteristics	Settlements													
	Early	Helladic	Late	Helladic	Ro	man								
	No.	%	No.	%	No.	%								
Total Settlements	4	100.0	9	100.0	23	100.0								
No. Within 0.5 kms. of Coast	4	100.0	4	44.4	13	56.5								
Height Zonation (m)	moderná zmirové dostako majsoj povegová s													
0 - 99	3	75.0	5	55.6	17	73•9								
100 - 199	1	25.0	2	22.2	4	17.4								
200 - 299	0	0.0	2	22.2	2	8•7								
Sites	e disconnece von execuciones validadas de la Gressa													
Acropolis	0	0.0	2	22.2	o	0.0								
Knoll	0	0.0	0	0.0	0	0.0								
Marine Surfa c e	0	0.0	0	0.0	1	4.4								
Mound	1	25.0	2	22.2	5	21.7								
Ridge	0	0.0	0	0.0	0	0.0								
Shelf	0	0.0	1	11.2	5	21.7								
Spur	1	25.0	2	22.2	4	17.4								
Island	2	50.0	2	22.2	0	0.0								
Valley Floor	0	0.0	0	0.0	6	26.1								
Un cle ar	0	0.0	0	0.0	2	8.7								
Terrain		ndger in still forditte Politic Dichera wie est die vool Mit en die voor de spesiere			ágica go tilliter igi sa dicini (tan et l									
Gentle Slopes	3	75.0	3	33.3	10.0	43.5								
Moderate Slopes	1	25.0	5	55.6	11.5	50.0								
Steep Slopes	o	0.0	1	11.1	1.5	6.5								

element within a pattern of settlements widely distributed over Lakonia.

The origin of this earliest known settlement pattern, and the reasons for the initial settling of the region, are obscure. Direct answers to our questions cannot be provided. especially since the origins of the Early Helladic pattern were probably influenced by the existence of older settlements, the distribution of which is unknown at present. Answers must be sought indirectly, through an examination of the situation of Early Helladic settlements in the study region, conducted within a framework provided by the small amount of knowledge which is available generally for the period (Table 5). The settlements were established on. or very close to, some of the recognisably better cultivable land in the study region, and it is reasonable to suppose that their inhabitants grew all or most of their own food. However, there are more productive areas in Greece and, even in Lakonia. The neighbouring 'Elos Plain provided a particularly productive tract, and its marging were comparatively densely settled in Early Helladic times. It seems reasonable to conclude therefore that settlements were not established in the Mani primarily because good cultivable land may have served to localise settlements once the decision to colonise had been made. Even allowing for some change in sea level, the coastal distribution of settlements appears significant. The Early Helladic settlements may have been founded by seaborne colonists, as Waterhouse and Hope Simpson suggested, and possibly by people dispossessed in the great social upheaval which the Bastern Mediterranean region appears to have experienced c.2,200 - 2,100 B.C. Proximity also suggests that the sea was important in the life of the settlements. Fishing may not have been very significant if later evidence for the relative poverty of Maniat fishing can be transposed to prehistoric times, but the people may have traded in rare stone, as in Middle and Late Helladic times, 3 for the southernmost habitation site is actually near to the source of antico rosso. An almost equal possibility is

		HADE	ENGLAND, BARBARY, LEGHORN, VENICE, IONIAN IOS., CRETE, ARCHIPELAGO, ISTANBUL EXPORTS	PHIMARY PRODUCIS HONEY, WAX, GALL-NUTS, VALONIA	OIL, SILK QUAILS IMPORTS CEREALS	TRADE COMPELLED TO GO	THROUGH VENICE DOGS MULES	DUAILS	STOOL MAINT THAN	ARCHIPELAGO, VENICE, ITALY EXPORTS VALUNIA	WAX SPORADICALLY	BALL-NUTS ? SIEK	? VALONIA, SILK, IRON FOCUSED ON CORON						EXPORTS	7 180N SKINS	? WOOLLEN CLOTH	CYPORTS ANTICO ROSSO	TO CRETE & ARGOLIS	IMPORTS OBSIDIAN from	
ONOMY		UINER ACTIVITIES		SPORADIC PIRACY SEASONAL LABOUR	SERVICE IN HYRIOT SHIPS			PIRACY, BUT DECLINE c 1880-1715 ? SLAVING		? PIRACY, but complicated by	privateering	? FISHING			? PIRACY	MERCENARIES			QUARRYING & MINING	(for quarrying tools) ? WEAVING	? DYEING		DUARRYING	DUARRYING	
E C		PASIURALISM	EVIDENCE FOR	SMEEF & GUALS CATTLE PIGS			٥.			LIVESTOCK, SINCE EXPORTS OF PORK & CHEESE	3 N N N N N N N N N N N N N N N N N N N			ċ					EVIDENCE V. INDIRECT			SHEEP, GOATS known			
occionia di		AGRICOL I DRE	SUFFICIENT FOR SUBSISTENCE WHEAT BARLEY KALAMBOKK! (? MILLET)	OLIVES ? MASLIN	C0TTON	ASSUME SUBSISTENCE	EVIDENCE ONLY FOR OLIVES		Naco	VINES			CEREALS (? WHEAT, DATS.	BARLEY, MILLET)	VINES	OLIVES		CEREALS	OLIVES ? FIGS			CEREALS	VINES & ULIVES BISEWHERE		
	ADMINISTRATION	PROVINCIAL	GREEK STATE CENTRE: NAVPLION	DVINCE of ISLANDS		LULE, 1885 – 1715 CENTRE: NAPOLI DI	ROMANIA	TANI MATES	MOREA	CENTRE: NAPOL! OI ROMANIA	1606 1817 Januarian	political & economic crisis in the Empire	PASHALIK OF MOREA	IREA, 1262 - 1348 CENTRE: MISTRA	PELOPONNISOS 1 CENTRE:MONEMVASIA	HAIA, 1204 – 62 ENTRE: ANDRAVIDA	EME, c. 950 – 1204 EMBNIA, 1204	AIA, after 146 B.C. E LAKONIANS	6 POLEIS, EACH WITH ECONOMIC PROBLEMS 3 EPHORS GEROUSIA IN 3RD CENT. A.D.	STABILITY, PEACE	SPARTA (from 8th cent B.C.)		ENELAUS	~	٠.
	ADMINIS	REGIONAL	GREEK EPARKHIAS OF WEST & EAST SPARTA	KAPUDAN PASHA'S PROVINCE of ISLANDS REV ROTHIN	REGIONAL COUNCIL	UNDER VENETIAN RULE,	BAS KAPITA	DE BISHOPS KAPITANI PRIMATES TE VILLAGE: COUNCIL 2/3 ELOERS PRIMATES	PASHALIK OF MOREA	? SUBASHI + CADI I BEY/BAS KAPITANOS	REGIONAL CENTRE	BISHOP PROESTI	VENICE 1465-79 Rettore	DESPOTATE OF MOREA, 1262 - 1348 ?2 LORDSHIPS CENTRE: MISTRA	BYZANTINE PE ACQUIRED 1262-1354	PRINCIPALITY OF AC ACQUIRED, c. 1248 C	PELOPONNESIAN TH	2. ARKON IA, 10th cent PROVINCE OF ACHAIA, after 146 B.C. LEAGUE OF FREE LAKONIANS	6 POLEIS, EACH WITH 3 EPHORS GEROUSIA	ECCLESIA	SPAR	j	CENTRE: MAVROVOUNI	۰.	~
		HOSTILITY	1, AGDN 2, FAMILY VENDETTA		4. LOCAL WAR	WAR	TERRIBLE .	VENDETTA FEROCITY OF MANIATS		MARTIAL REPUTATION					? STRIFE						6		<u>~</u>		
	SOCIETY	STRATIFICATION	KAPETANI CHIEFS	PATRICIAN	PLEBEIAN		KAPITANI IN N			ċ			FEUDAL	FEUDAL		FEUDAL	VILLAGES	1 CITIZENS	2 FOREIGNERS	3 SLAVES	LANDLORDS TENANTS		FEUDAL		
SOCIET	:	CLANS	1/2	SETTLEMENT			٠.			NEVERS' LETTER IV				<i>«</i>	<u>.</u> _	_ 111			#E <	CLAN CLAN			35°C W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
		EMIGRATION	SEASONAL - MOREA	PERMANENT - ISTANBUL		IATRIANI &	STEPHANOPOLI TO ITALY (1670s)						IONIAN IDS.		SERVICE IN VENETIAN TERRITORIES	CONSTANTINOPLE	SPARTA		_						
	POPULATION	IMMIGRATION	? ALBANIANS TO	c.1774 – 79			ISH	1660)		FROM CERIGO & ? CYCLADES	(16th cent)		ALBANIANS (STRADIOTTI)	BEFORE TURKS, FROM MISTRA			SLAVS		SOME ROMANS	FROM OTHER	<u></u>	DORIANS		? MINYANS	? GK. SPEAKERS
		TOTAL	c. 18,859				c. 15,000			с. 13,940			SOME	DEPOPULATION OUE WARS	AND PLAGUE IN	1389	82/128	+	PROBABLY INCREASE				~	~	~
	PERIOD		EARLY 19 TH CENTURY	c. 1830		LATE	17 TH CENTURY	c. 1700	FARIV	17 TH CENTURY	c. 1618		MIDDLE AGES					ROMAN	LATE 2ND CENT	c. AD 174		BRONZE AGE	LATE HELLADIC	MID. HELLADIC	EARLY HELLADIC

sel green world?

that the settlements were the eastern termini of porterage routes across the peninsula, and that they developed as trans-shipment points. Kranae and Mavrovouni lie at the eastern end of the Milolanghadha, whilst Skopa is situated at the end of a route through the mountains which used the Kavalo Plain. Both routes converge westwards towards Porto Vitylo where, however, no traces of Early Helladic settlement have been found. Spira, a site situated now between two small bays and possibly similar in this respect to Minoan ports, is at the eastern end of a steep but practicable route across the mountains to the Mesa Khoria and particularly to the vicinity of later Kaenepolis. Early Helladic settlement is not known from the south-western terminal area, but, as in the case of Oitilos, survival might have been obscured by later habitation phases, and cannot be ruled out entirely. Porterages may have been developed across the Mani for the same reasons that they appear to have been used along the western seaways of Britain. The Maniat coast is exceptionally dangerous. Its headlands are hazardous because of currents and sudden down-draughts, whilst working a small ship inshore around the coast of the peninsula would lengthen the whole journey, and would be very arduous. It is interesting that similar trans-peninsular routes appear to be picked out across Parnon, and may have been developed to avoid Cape Malea, where early sailors encountered "blasts of whistling winds and swollen waves, as huge as mountains". 5 One of these routes is picked out by a line of settlements, and apparently led from the vicinity of later Epidauros Limera to Lakedaimonia, whilst the others may be evidenced by clusters of settlements at the base of the Xyli peninsula and opposite 'Elafonisos. Both suggest alternative routes westwards from hear Epidauros Limera. The termini on the eastern side of the Lakonic Gulf may have been linked directly across fairly sheltered waters with the settlements near the western, Maniat coast.



Late Helladic Period

Although the origins of the Early Helladic settlement pattern are unknown, its main characteristics continued through until the second century A.D. and beyond. Definite traces of occupation in the next or Middle Helladic phase (c.1900-1600 B.C.) have been found only on Skopa. but continuity in culture might suggest the possibility of Late Helladic (c.1600-1200 B.C.) settlements originating in the previous period when the so-called Minyans appeared in Greece. Late Helladic settlements themselves are known from both archaeological and literary evidence (Fig. 33). Considerable quantities of Late Helladic III or Mycenaean (c.1400-1200 B.C.) sherds were recovered from Kranae, and have been taken to indicate a fairly important settlement occupying about half the island. Similar material was found on the summit of a prominent hill near Navrovouni which had characteristic Mycenaean chamber tombs cut into its upper part. Late Helladic sherds also covered a wide area on another but lower hill about 300 metres to the north-east, perhaps suggesting the juxta position, of a citedel and its village. The remains of two pithos burials were found on Skopa and assigned tentatively to either the Middle or Late Helladic periods. A few fragments of possibly Late Helladic pottery were/at Spira and 'Ano Poula, whilst some pieces of course ware from the seaward slopes below modern Oitilon may be of similar date.

The literary evidence comes from the <u>Catalogue of Ships</u> embedded in the <u>Iliad</u>, and which its recent editors argue contains a more substantial and accurate Mycenaean element than the rest of the epic. Four place names have been identified with sites in the study region - Augeiai, Laas, Messe and Oitylos. Hope Simpson and Lazenby have identified Augeai and Laas with the later settlements of Aegiae and Las respectively, thus

accepting suggestions advanced by Strabo, himself an Homeric scholar. They identified Oitylos, obviously enough, with the site of the ancient settlement of the same name, whilst Messe they located on the Tigani, where defensive walls contain Cyclopean masonry similar to that found at Tiryns. To these names from the <u>Catalogue</u> can be added Kranae, the place where Paris and Helen spent their first night. Pausanias first identified this as the island lying off modern Yithion, and it has been accepted by most subsequent workers. As we have seen, the island has a considerable pottery scatter from the appropriate period.

Three elements are clear in the pattern from the available, but probably incomplete data (Fig.33; Table 4). The first is the peripheral location of the settlements. The second and related element is an apparent association with the sea, which is particularly clear in the cases of Kranae, Skopá and Messe, but also evident in that of Spira, which lies within 0.5 kilometres of the coast. The third element is a limited amount of inland penetration, particularly obvious in the valleys of the northeast, where Laas is situated on the edge of the Turkovrissi and Mavrovouni and Augeiai in the valley of the Vardhounia. A fourth element may be added, that of the general association of settlements with gentle or moderately sloping terrain, at elevations usually below 100 metres but never exceeding more than 200 metres.

Nearest neighbour analysis is not essential to describe such a simple pattern, but the results are instructive. If the whole area of the study region is taken as the basis for calculation, a value of 1.6 is obtained, indicating a pattern containing some degree of regularity. This appears to be contradicted by the value of 0.42, obtained by calculating on the area lying below 200 metres, which is indicative of clustering. Although the different results may arise from incomplete data and the shape of

the region, they do in fact draw attention to the clustered but fairly regular pattern made by 4 out of the total of 9 settlements which are situated in the low, generally undulating country of the north-east corner of the region where today fertile soil and good water are relatively abundant. Although sources of domestic water are not known directly, it is probable that Augeiai, Kranae, Laas and Mavrovouni utilised streams in their neighbourhood and that Oitylos and Skopa drew upon neighbouring springs. 'Ano Poula and Messe, however, are situated in such an arid area that they must have used cisterns to store rainwater.

The sites of the settlements are clear (Table 4). Augeiai,
Mavrovouni and Spira occupied hill tops, whilst Oitylos lay upon a hill
slope. Laas and 'Ano Poula are really acropolis sites, of the type
described in Appendix IV, and Kranae and Skopa are islands now, though
with a lower sea level they may have been peninsulas. A defensive element
may be implied in the occupation of both elevated and peninsula sites. It
is particularly clear in the fortified character of Messe and possibly also
of Laas and 'Ano Poula, though in the last two cases the surviving walls
are more recent than the Bronze Age. The possible defensive element in
siting seems in substantial agreement with the character of settlements found
in other parts of the Mycenaean world, and appears in harmony with the warlike and allegedly "feudal" nature of society, which archaeologists have
reconstructed from all the material evidence currently available. (Table 5).
By contrast, the settlement pattern for the next period where such an exercise
is possible is consistent with peaceful and fairly stable conditions.

Roman Period

Various finds indicate that occupation continued in the study region after the apparent collapse of Mycenaean power towards the end of the second millenium B.C. The evidence, however, is not sufficiently complete to reconstruct even a fragmentary pattern of settlements until the last quarter of the second century A.D. It was then that the Lydian

Greek, Pausanias, wrote his <u>Description of Greece</u> and named places which, with the aid of his distances and finds of coins and inscriptions, have been identified with Roman remains extant in the region during the nineteenth century and even today. These identifications form the basis of Figure 34, but a number of unnamed Roman sites are also known and these have also been added to the map. More probably remain to be discovered. Careful analysis of the brief descriptions provided by Pausanias and of the available archaeological data allow the recognition of different types of settlement site. In particular, an important distinction can be made between <u>polis-sites</u>, where features associated by Pausanias himself with the "central place" of a city-state existed, and <u>non-polis sites</u> which lacked these features and in some cases were simply temples or other religious sites (Table 6). Only probable settlement sites have been included in the following analysis.

The basic pattern contains 23 points (Fig. 34). Only 7 of these lie south of a line joining Porto Vitulo with Kolokythia Bay, whilst about half lie within an arc curving round through modern Kamares and the probable site of ancient Hypsi to embrace the comparatively fertile and well-watered north-eastern corner of the region. Twelve settlements were situated on the modern coastline or lay within 1 kilometre of the shore (Table 4). Although a rise in sea level of 2 or 3 metres seems to be evidenced by submerged ruins at Gythium and Skutári, this cannot have made much difference to the general pattern, especially since Gythium, Messa and Psamathus were specifically mentioned as ports by ancient writers 12 All but 5 of the coastal settlements have the easterly or northerly aspects which the architect and former general, Vitruvius, (first century B.C.) thought healthy for coastal towns. 13 Inland penetration by settlements was largely confined to the valleys of the Turkovrissi, probably the ancient Smenus, and the Vardhounia (Dig. 34).

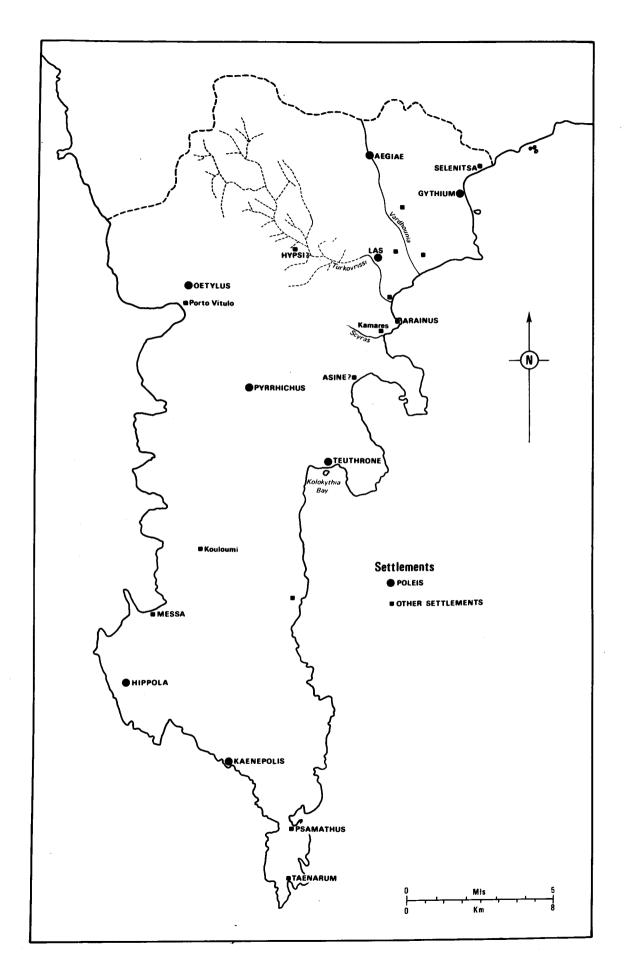


Figure 34: Settlement Types Found in the Study Region During the Second Century A.D.

Table 6: Physical Features Considered by Pausanias as Indicating a Pólis 9

					Mile Second - when the State		januta.	r ³	
Name of Place	2	2	3	4	5	6	7	8	9
Aegiae						P	₽.		
Asine									
Gythium	P		A	A?		2		A	₽
Hippola	A?								
Kaenepolis	A?	A??				P	2		
IAs	P	A??			₽	2	2		
Nessa.	A?								
Oetylus	A?	2				P			
Panathus									
Pyrrhichus		2				₽	P		
Taenarum						P			
Teuthrone	A?						2		

- P mentioned by Pausanias
- A known archaeologically and not mentioned by Pausanias
- 1 Acropolis
- 2 Agora
- 3 Public Water Supply
- 4 Government Offices
- 5 Gymnasium
- 6 Religious Objects (statues, etc.)
- 7 Temple
- 8 Theatre
- 9 Walls

Available archaeological data do not allow the centres of individual settlements to be located precisely, but they were markedly different from those of modern settlements situated in their vicinity. As a result, nearest neighbour analysis of the ancient settlement pattern yields only crude results. A statistic of 1.4 was produced for the whole of the study region and one of 1.7 for the area below the 400 metre contour. Both figures lie outside the range of random matching in the direction of a regular and hexagonal distribution. If these inaccurate regults bear any relation to reality, explanation is again best sought in the concentration of settlements in the north-east, which is so apparent on the maps. Although precise sites cannot be clearly recognised because of the paucity of data, crude analyses (Table 4) show that locally elevated sites were predominant (68 per cent), thus to some extent meeting Vitruvius' requirement for a health, position 14 and possibly indicating deliberate choice. However, a comparatively large proportion of the settlements occupied valley floors. All of these are on or near the coast. Vitravius, and probably contemporaries, believed that proximity to the sea would allow drainage and thus have rendered the settlements healthy, even if there were marshes in the vicinity. 15

obtained directly from maps (Table 4). The striking feature of the distributions is the large number of settlements situated in gentle and moderately sloping terrain (93.5 per cent) below the 100 metre contour (73.9 per cent). Testing of the observed slope and height preference by the Chi-squared test, shows clearly that they are not what one might have expected from the proportion of the study area occupied by either the different categories of slope or the different height zones. In fact, the patterns point to a series of deliberate choices concentrating settlements in a particular environmental situation and one, moreover, clearly associated with the north-eastern corner of the region. Physical

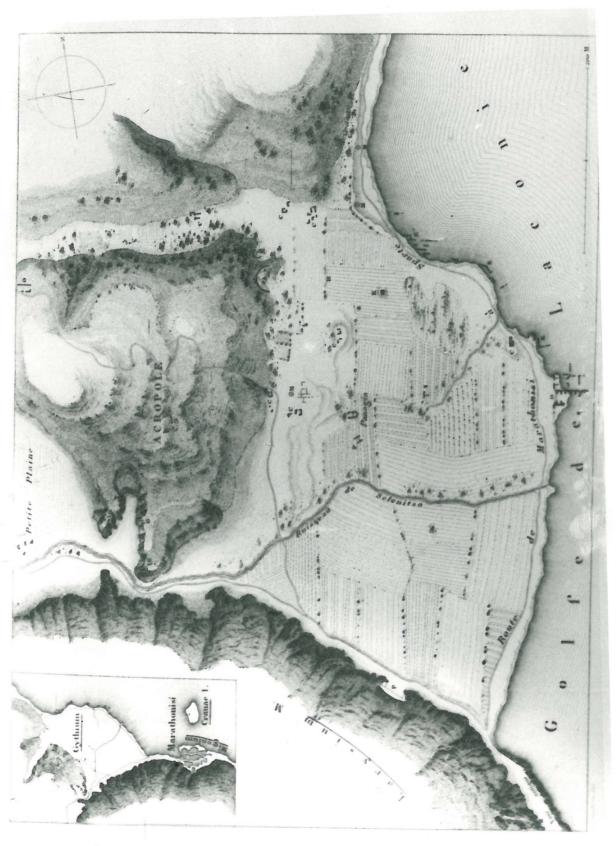


Figure 35: Remains of Ancient Gythium, as Seen in 1843

attractions were probably provided, on the one hand, by the fertile soils of the valleys, and, on the other hand, by the oak woodland, which covered the intervening hills to a greater extent than in later centuries. Perennial water, for domestic use and possibly for small-scale irrigation, was also available in the valleys of the Turkovrissi and the Vardhounia as well as at Selenitsa. Another factor influencing the establishment of settlement in the north-east may have been the market offered by Gythium, which was much the largest and most important settlement in the region (Fig. 35; Table 6).

Good cultivable land appears to have been an important factor in the situation of other settlements in the total pattern. The suggested site of second century Hippola is in probably the most fertile tract of the 'Embros, whilst the settlement near modern Kouloumi would have had the use of the Pemdexia Hollow, which contains the best soils throughout the entire marine surface zone of the west coast. Pyrrhichus was situated on the edge of a large upland plain, and Octylus may have cultivated the small plains at the head of Forto Vitulo, in addition to the neighbouring slopes. The settlement below Kourno, though situated in more difficult terrain than the others noted above, actually lies on a small plateau, within an amphitheatre of terraced hills containing some of the better land of the district. Teuthrone and Kaenepolis each lay at the seaward edge of schist embayments, where the soils are deep and water relatively abundant, and even Psemathus and Taenarum might have exploited small pockets of similar soils.

Although most settlements appear to be situated near cultivable land, a very significant relationship may be that between the <u>poleis</u>, apart from Gythium and Cetylus, and good arable land, Gythium is not as unusual as it appears at first sight. There are several small valleys in its vicinity and gently sloping land in the hills eastwards of the town, as well as in the neighbouring Vardhounia valley. All of these may have been cultivated in antiquity. At the same time, though, Gythium possessed additional sources of wealth in its port and the neighbouring quarries (Fig.10). Cetylus, on

the other hand, really does look the odd man out amongst the central places of the <u>poléis</u>, but it may have exploited a wider, if less fertile area than the other settlements of equivalent status, since there are no other <u>poléis</u> and fewer other settlements between it and Messa in the south and Pephoros (outside the study region) in the north; it might also have worked the iron mines in the vicinity of Skála (Fig.10).

Considerable care was taken in antiquity to provide a wholesome water supply, and Vitruvius considered the subject so important that he devoted a whole book of his treatise, <u>de architectura</u>, to it. ¹⁶ Pausanias reported that Pyrrhichus obtained its water from a well, whilst Teuthrone depended upon a spring. Archaeological investigation has shown that Gythium was supplied by an aqueduct, but probably the settlement drew much of its domestic water from wells and springs in the neighbourhood.

Table 7: Possible Sources of Water in the Second Century

Possible Source	Number	Percentage of Total
Springs	5	21.7
Wells	3	13.1
Running Water + Springs (streams, aqueduct)	2	8.7
Running Water and Wells	L _k	17.4
Running Water, Springs & Wells	2	8.7
Uncertain	8	30.4
Total	24	100.0

We have no direct information about other settlements. Inferences must be drawn from modern conditions in their vicinity, bearing in mind the apparent preference in antiquity for spring and well water, in thatorder. Table 7 is constructed on this basis, but contains the ancient data indicated above.

Where a reasonable deduction can be made, most settlements (52.2 per cent) may have preferred to draw upon running water and springs rather than wells, but springs were the most preferred source.

As expected, the pattern seems to confirm the operation of water supply as a factor behind the concentration of settlements in the northeast corner, where most of these sources are found. It is a factor in the striking continuity which seemed to pertain over the 2,000 to 3,000 years separating the reconstructed settlement patterns of the early Helladic and Roman periods.

Continuity and Change (Fig. 36; Table 4)

Continuity is so striking that it demands explanation. Unfortunately, evidence bearing upon the subject is scarce and much must depend upon the interpretation of the settlement patterns themselves. Some of the continuity apparent between the Early and Late Helladic periods can be accounted for by the occupation of all four of the Early Helladic sites in the later period. Direct continuity of this type may appear strange when it is remembered that a new culture, associated with Minyan ware, seems to have been intruded into Greece at the beginning of Middle Helladic times (1900-1600 B.C.). Possible explanations include the ability of the old sites to meet the requirements of new groups, intrusion of an aristocracy with no appreciable effect upon the local population, and the absence of any settling of Minyans in the region at all. There is little to choose between these explanations in the absence of virtually all information. At a later date, occupation may also have continued at Augelai and Oitylos, first inhabited in Late Helladic times, despite the break in culture which seems to have terminated the Mycenaean period in Greece, and brought the Dorians into Lakonia. The data are not as reliable as those for continuity between the Early and Late Helladic phases, but, if occupation was continuous, the explanations may have been broadly similar.

Maintenance of the coastal characteristic in the prehistoric and Roman pattern seems to point to trade as the obvious explanation. Rare stones, particularly antico masso, were exported from the region, and the sea was the

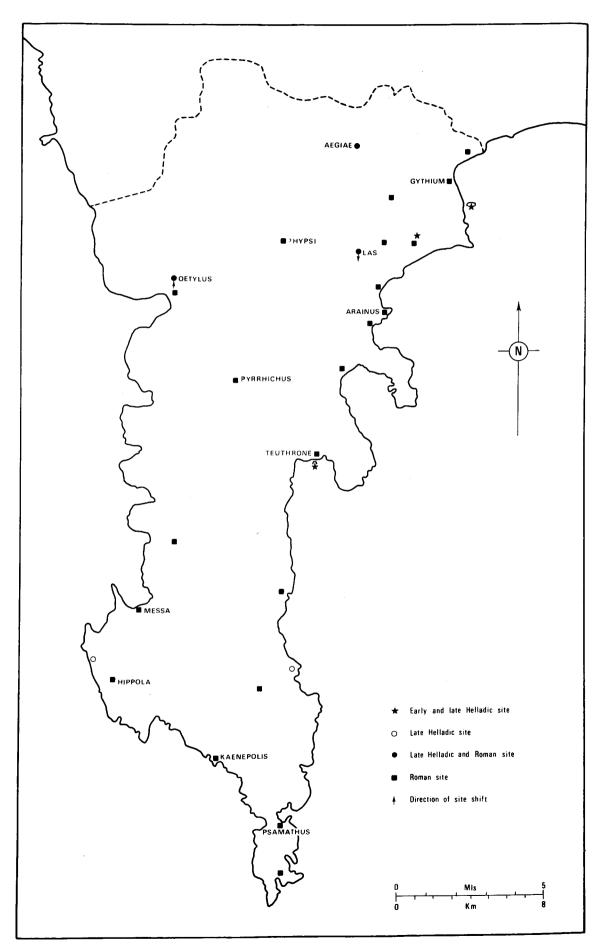


Figure 36: Development of Settlement Patterns: Early Helladic to Roman Periods

obvious medium for their transport. Porterage routes may have remained important, though this is perhaps doubtful, for ships became larger, more sturdy and capable of making voyages across the open sea, provided that care was taken in dangerous localities, such as Cape Maléa. An alternative explanation may lie in the limited amount of internal penetration and the principal direction which it took. Most of the cultivable land of the Mani is coastal, and inland penetration seems to have taken place from the coast and largely along the valleys of the north-eastern corner of the region, whilst the greater part of the peninsula remained absolutely empty. The implication might be that the interior of the Mani was considered too inhospitable to settle, and that only the coastal areas offered any opportunities for making a living. This does not rule out trade, of course, for it might have remained the most compelling reason for living in what now appears such an arid and inhospitable region.

The availability of the most extensive tracts of fertile valley land and coastal plain in the north-east, despite physical changes in post-Roman times, may explain the concentration of settlement there. Perennial water may have been an additional attraction. Not only would it have allowed irrigation, but it would also have provided the kind of domestic water supply which the ancients naturally preferred because of its wholesomeness. Testing of the slope and elevation associations of the settlements in each of the three periods under discussion indicated that situations may have been chosen deliberately. Defence may have been one consideration, and its possible significance is particularly reinforced by the occupation of island (or peninsular) sites in the prehistoric period, and by the citadels of some of the Late Helladic and subsequent settlements. The threat may have been from the seaward, but might also have come from the land, given both the allegedly "feudal" character of Late Helladic society in Greece and the turbulence of the subsequent Dark Ages. However, it seems clear that defence considerations could not have been of prime importance in locating

settlements. The occupation of the upland plains and higher sites in general might have been evident had this been the case. Cultivable land and the coast appear to have been of more importance.

A period of 2,000 to 3,000 years is so long that changes in the pattern of settlement are to be expected. In fact, the degree of stability indicated above may be regarded as exceptional. The changes which did take place between the early Bronze Age and the Roman period, may easily be isolated from Figure 22.1 and Table 22.1.

The most obvious change was the increase in the number of settlements, from four in the early Helladic phase to mine at the end of the Mycenaean period and subsequently to 23 in the Roman period. (Table 4). Increasing numbers were associated with a spreading movement, especially obvious in the north-eastern corner of the region (Fig. 36), but sufficiently widespread over the peninsula for occupation to be found in about 25 per cent of the quadrats used to examine the distribution of settlements. A second notable change was the appearance of settlements on the western side of the peninsula in Late Helladic times, and the subsequent but apparently limited spread which developed there down to the second century (Fig. 36). Although the increase in number of settlements was about 20 per cent greater than in the period between c. A.D. 174 and c. A.D. 1618, it seems comparatively small, considering the long time span involved and the much more rapid build-up which apparently took place in the Middle Ages. A greater total may not have been reached for a variety of reasons, but an alternative explanation can be offered by the incompleteness of the settlement data. Systemmatic Meld research and the study of aerial photographs would probably produce more sites, but until then we must work with the information available.

Although some sites appear to have been occupied from Early Helladic through to Late Helladic times, and two Late Helladic sites were probably inhabited through to the Roman period, changes in siting, were much more common, even where the same general area continued to be occupied for two or more periods. Thus, the islands and the Tigani were deserted between the

Late Helladic and Roman phases, involving, in the case of Kranae, replacement by a settlement on the adjacent mainland which grew into Gythium. The original core of the polis may have been on the citadel, but the settlement subsequently spread on to lower land lying to the east (Fig. 36) and Pausanius implied that the acropolis was in ruins. Some time before A.D.174 a slight shift of site also seems to have taken place at Las, where the old citadel-site was abandoned in favour of a neighbouring valley. A similar change may have occurred at Hippola, where the acropolis seems to have been ruined in the time of Pausanius. A more drastic change might have occurred in the south of the peninsula when Kaenepolis replaced Taenarum as a political unit, though in rather obscure circumstances. Pausanias half preserved an ancient legend about the foundation of Gythium, which may indicate that Maniat experience was similar to that of other parts of Greece in the establishment of poleis and the foundation of "central places". The traveller recorded that Gythium had been founded by Apollo and Herakles after their strife together. Although the god and the hero were both subsequently associated with the Dorians and were widely venerated in the study region in Roman times, at Gythium each may have been the protector of particular groups of people established in two settlements, one possibly on the mainland and the other on the island. A joint foundation of Gythium certainly points to the syncecism of the pre-existing settlements, a form of union which was a common means of pólis foundation elsewhere in the Greek world. Synoecism may have occurred in other districts of the study region.

These changes serve as a reminder that the regional patterns of change resulted from numerous individual decisions to found settlements and to establish them upon particular sites. Careful examination of the physical environment is reflected in the choice of deities worshipped at different places in the region (Table 8), and similar pains may have been taken over the choice of settlement sites. This suggestion seems to be confirmed by the significant results of Chi-squared tests on the height and slope associations

Table 8 : Gods and Demi-gods Worshipped in the Study Region

in the	e Se	con	d C	ent	ury	7							න ස
	Localities	Aegiae	Gythium	Migonium	Las	Hypsi	Pyrrhichus	Teuthrone	Kaenepolis	ippola	Oetylus	Taenarum	Nr. R. Scyras
Deities	H	¥	9	M	1	H	러	H	M	Ħ	\vdash	H	Z
Ammon			V										
Aphrodite									1				
Aphrodite Migonitis				√ .									
Apollo			1										
Apollo Amazonius							✓						
Apollo Carneius			✓	·	1						1		
Arion the Harper												1	
Artemis Astratea							1						
Artemis Daphnaea						1							
Artemis Issoria								-			-		
Asclepius.			✓		1	✓							
Athena			✓										
Athena Asia													
Athena Hippolaitis													
Demeter			1						✓				
Dionysius			1		1								
Heracles			1		1								
Hermes		Ī			1								
Nereus			1										
Poseidon												1	
Poseidon Earth-embracer		1	1										
Praxidicae				1							✓		
Sarapis													
Thetis													
Zeus													1

of settlements. Unfortunately, though, explanation at the level of individuals is virtually impossible from the type of data available. Explanations can be sought only for changes apparent on the regional scale.

Increase in settlements, abandonment of island and peninsula sites and the spread of habitation in the region may be related. They certainly took place in the same period, between Late Helladic and Roman times, though nearly 1800 years is such a long time that they cannot be regarded as necessarily contemporateous. Obvious explanations, which relate all three developments, may be growing insecurity and the influx of new groups, both possibly associated with the collepse of Mycenaean power and the settling of the legendary Dorians (Table 5). Archaeology has such a tradition of cataclysmic explanation that the investigator needs to be on his guard against accepting destruction and replacement as causes of change, just because they seem to leave obvious traces and are simple to invoke. In the absence of excavation, there can be no certainty about events in the Mani between c.1200 B.C. and the second century A.D. Insecurity, though, may be indicated by the citadel acropoleis found in the "central places" of polis communities distinguished earlier. Some time after foundation, and before Pausanias wrote, an equally significant development had also taken place. As pointed out above, the citadels were largely abandoned and settlements developed at their feet. Peace may have reinforced the tendency, and led to the ruined condition of the citadels, but the basic reason for the growth of lower settlements may have been simply an increase in population of such proportions that it could not be accommodated on the high, cramped intital sites.

Population increase to a point where resources in the immediate vicinity of the original foundations came under pressure, may also form at least part of the explanation for the <u>spread</u> of settlements in the north-eastern area. New land had to be colonised. A widening economy, apparently typical of the early Roman period (Table 5), may also have been important, though the comparatively large market of the port settlement of Gythium must be taken into account. Unfortunately, no full chronology exists for any of the known

Roman sites. Accordingly, it may be possible that some of these settlements were original members of early poleis.

The appearance of settlements on the western side of the peninsula is equally problematical (Fig. 36). Kaenepolis, Mosse and Oetylus are associated with harbours; this may point to the importance of trade in their foundation. They may have been associated with the porterage routes which possibly existed in Early Helladic times, especially since evidence of occupation at Oetylus and on the Tigani seems to be available from the Late Helladic period. On the other hand, the appearance of these coastal settlements could be related to the possibly greater use made of the Tainaron route after Early Helladic times, despite the risks experienced in these waters. Knowledge of the harbours of Acheilleus and Psamathus, at the base of Kritiri, well before the Roman period may perhaps indicate such a change. Even so, it might be significant that all the western sites known in Roman times, with the exception of Messe, were adjacent to some of the better cultivable land of that area. Kaenepolis lies at the coastal edge of the schist embayment of Mesa Khoria, whilst lower Hippola (Kouno) is associated with a comparatively fertile hollow below the Makryna ridge in Katopangi. Oetylus is situated above a small and irregular coastal plain, and must have had access to the well-watered schist area lying a few kilometres inland of Porto Vitylo. The site found near later Kouloumi actually lies in the hollow, subsequently known as Pendadha. Occupation may have continued in this vicinity after the Roman period, but the predominant impression of the Middle Ages is one of discontinuity and change in settlement patterns.

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References

- 1. Archaeological Reports for 1970-71, Society for the Promotion of Hellenic Studies and the British School at Athens, (London, 1971), p.14;

 Archaeological Reports for 1971-72, Society for the Promotion of Hellenic Studies and the British School at Athens, (London, 1972), p.10.
- 2. Data about Bronze Age sites is taken from H. Waterhouse and R. Hope Simpson, Prehistoric Laconia I and II, <u>Annual of the British School at</u> <u>Athens</u>, 55 (1960), pp.67-108; 56 (1961), pp.114-78.
- 3. P. Warren, Minoan Stone Vases, (Cambridge, 1969), p.126.
- 4. R. W. Hutchinson, Prehistoric Crete, (Harmondsworth, 1962), p.100,
- 5. Odyssey. 111. 286-90; IV. 414.
- 6. The Catalogue is found in the <u>Iliad</u>, II, 494-759 (Maniat material in II. 582-85). R. Hope Simpson and J. F. Lazenby, <u>The Catalogue of Ships in Homer's ILIAD</u>, (Oxford, 1970), especially pp.76-79.
- 7. Pausanias II. 1. 1-26.8. Identifications and discussion in:

 E. S. Forster, South-western Laconia. Sites, Annual of the British

 School at Athens, 10 (1903-04), pp.158-66: Gythium and the North-west

 Coast of the Laconian Gulf, Annual of the British School at Athens,

 13 (1906-07), pp.219-37;
 - J.G.Frazer, <u>Pausanias's Description of Greece</u>. (London, 1898), Vol.4, pp.376-400;
 - C. Le Roy, AAKINIKA, Bulletin de Correspondance Hellénique, 85 (1961), pp.206-35; Lakonika II, Bulletin de Correspondance Hellénique, 89 (1965) pp.358-82; Waterhouse and Hope Simpson, op.cit.;
 - A.M.Woodward, Taenarum and Southern Maina, Annual of the British School at Athens, 13 (1906-07), pp.238-67.
- 8. N. J. G. Pounds, The Urbanisation of the Classical World, Annals of the Association of American Geographers, 59 (1969), pp.135-57.

- 9. The suggestions in Table 6 that Kaere polis and Las may have contained 'agorai is based upon the presence of non-votive inscriptions which might have been erected in such public spaces. The suggestion that Hippola, Kaenepolis and Oetylus possessed 'acropóleis is based on topography the fortified area on the Makrýna ridge above modern Kipoúla; the hill on the seaward side of modern Kypárissos; the high ground occupied by modern Oitylo, where sherds suggest that the ancient settlement covered the seaward slops. 'Acropóleis at Messa and Teuthrone are suggested on the basis of the fortifications on the Tigani and the possible fortifications on Skopa.
- 10. Hippola has been excluded from the pattern. Despite its proximity
 to the sea, it is in fact excluded from direct access by the Makryna ridge
 and the steep cliffs of Cape Grosso.
- 11. N.C.Fleming, Holocene Earth Movements and Eustatic Sea Level Changes in the Peloponnese, Nature, 217 (1963), pp.1031-32.
- 12. Pausanias III. 25.4; Strabo VIII.5.2.
- 13. Vitruvius, De Architecture. 1.4.
- 14. Ibid., 1.41.
- 15. <u>Ibid.</u>, 1.4.
- 16. Ibid., VIII.
- 17. Quadrat analysis reveals that 99.5 per cent of the 1 kilometre squares covering the region were empty of settlement in the Early Helladic period.

 98.5 per cent in Late Helladic times and 74.7 per cent in the Roman period.
- 18. D. Baker (ed.) The Politics of Aristotle, (Oxford, 1948), pp.5-6; W.W.Fowler,

 The City State of the Greeks and Romans (reprinted London, 1910), pp.35-36.

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CHAPTER 6: STABILITY AND DISCONTINUITY, c. A.D.174 to A.D.1618

Middle Ages

The sources are too fragmentary and unreliable for any accurate or complete pattern of settlement to be reconstructed between the late second and the early seventeenth century A.D. Place names and the pattern of princely and seigneurial castles in Lakonia suggests the possibility of permanent Slav settlements in parts of the region by the middle of the eighth century (Fig. 37). Venetian documents of some seven centuries later, a few place names and the late survival of Albanian speech point to the possibility of Albanian settlements, too, from the fifteenth century (Fig. 38).2 Other Venetian sources give a few more names and more can be gleaned from elsewhere, but they are not numerous and certainly not contemporaneous (Table 9). A more complete pattern seems to be suggested by the distribution of Byzantine churches in the region (Fig. 39), though wide differences in their age, as well as difficulties about using them as evidence, make severe reservations necessary (p. 23). The pattern of churches may reflect the broad pattern of settlements in some measure, but the location of individual churches does not indicate the existence of adjacent settlements at the dates of foundation. In fact. it is not until c.1618 that evidence is available in which sufficient confidence can be placed for a settlement pattern to be reconstructed.

Early Seventeenth Century

The interpretation of the Nevers' source, Document C, was discussed earlier (pp. 20-22), but it resulted in the identification of 61 settlements in the study region (Fig. 40). There were probably a few more, since 24 names in the original list (14.9 per cent) could not be identified. Nearest neighbour analysis of the reconstructed pattern produced a value of 0.93 which indicates a random distribution. This was confirmed when exactly the same value was obtained using the inhabited areas, which lie below 800 metres, as the basis for calculation and when examination of reflexive pairs produced values of 0.81 for the whole region and 0.80 for the area up to the 800 metre contour.

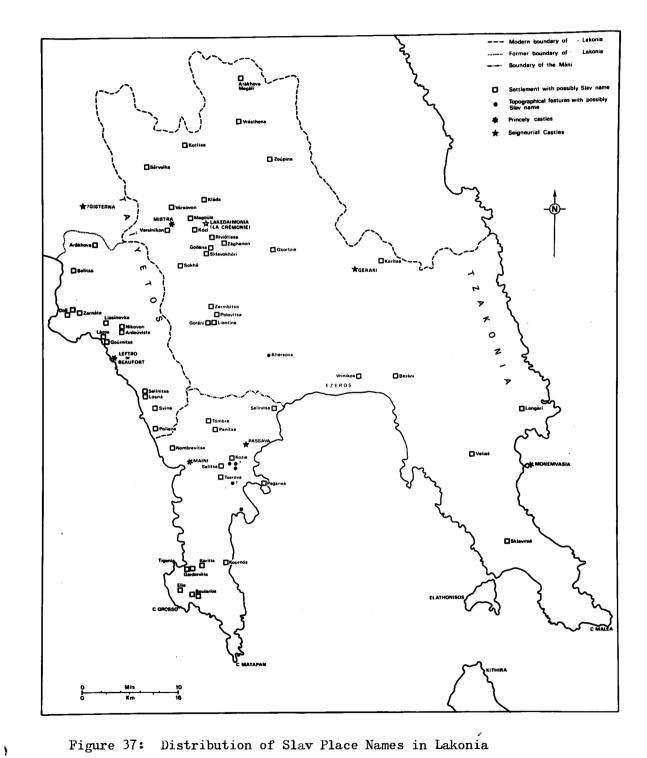


Figure 37: Distribution of Slav Place Names in Lakonia

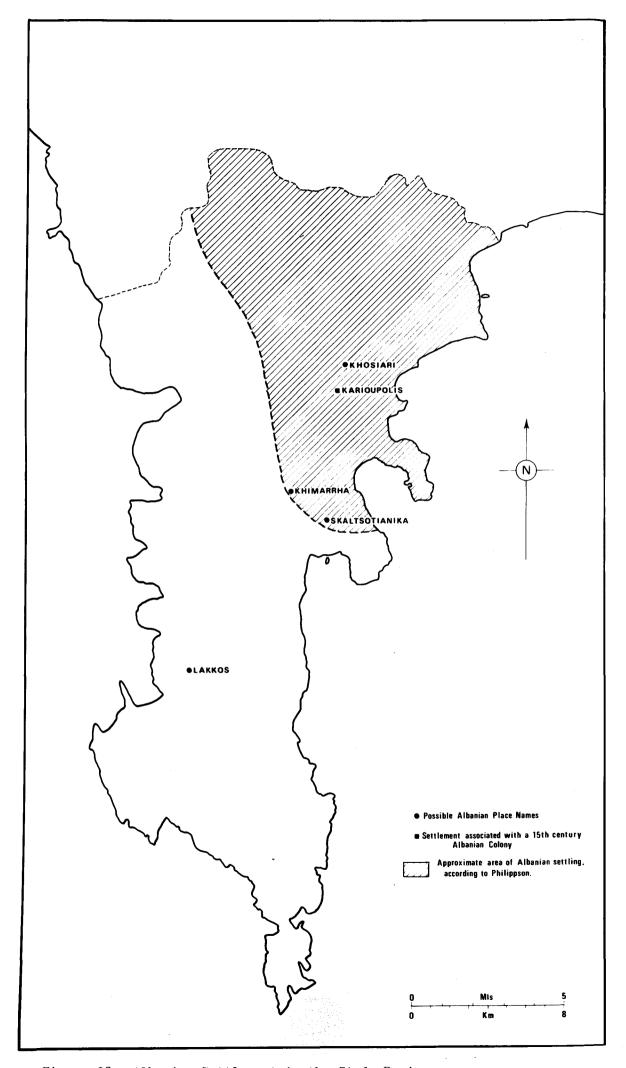


Figure 38: Albanian Settlement in the Study Region

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Table 9: Medieval Settlement Names (Sources in Appendix V)

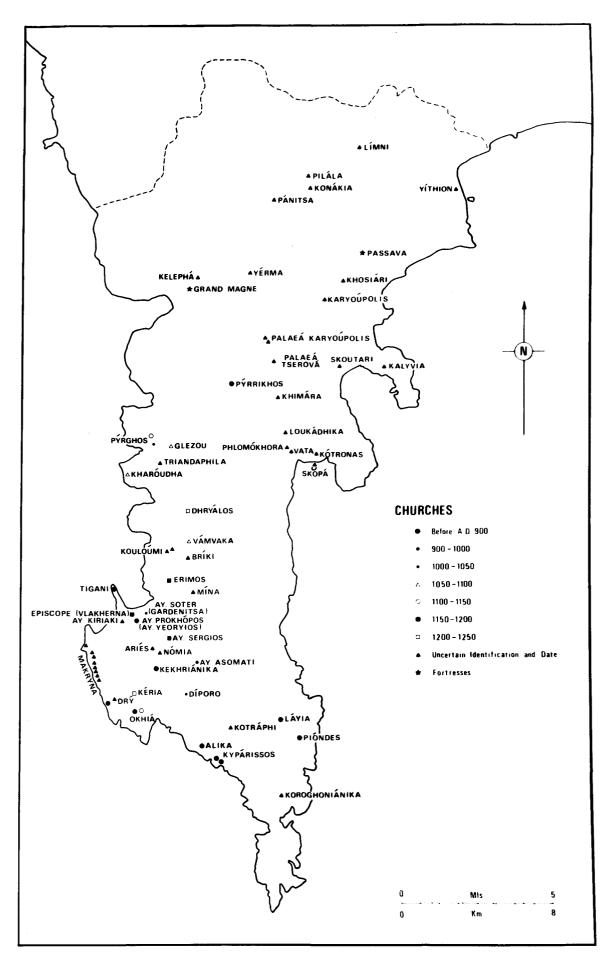


Figure 39: Medieval Churches in the Study Region

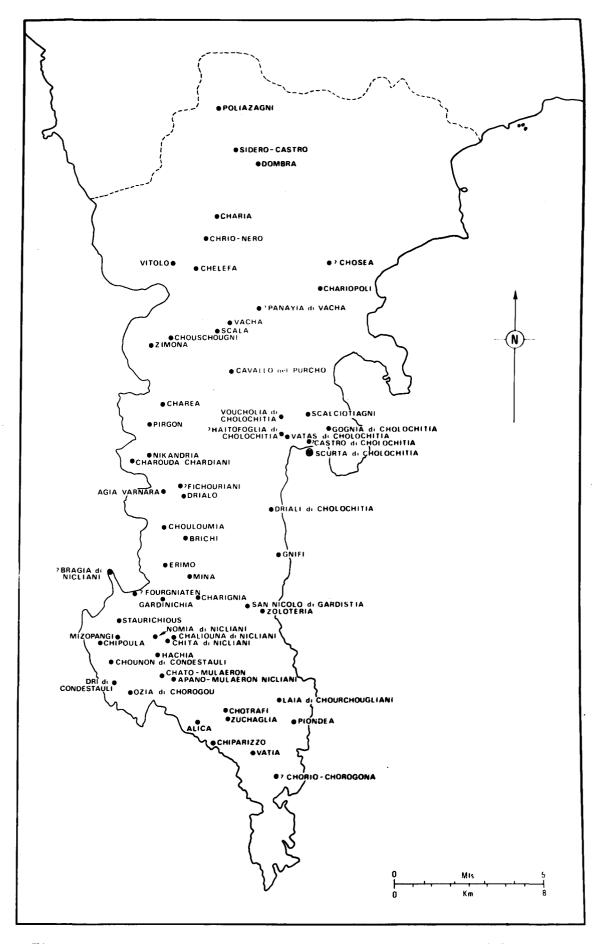


Figure 40: Pattern of Settlements in the Study Region, c.1618

The reflexive-pair values are greater than that for a perfectly random pattern of points (0.62) and Clark has suggested that such values might be due to one of two situations. They might arise from discontinuities in the physiography of a region, leading to a clustered or patchy distribution. Alternatively, positive values might result from the reciprocal effects of points upon each other.

The appropriateness of the first explanation is clear in the Maniat context (Fig.41). Settlements were largely absent from four areas - the coast, the central mountains, especially from the 8.0 per cent of the region lying above 800 metres, from the Kritíri peninsula in the south, and, rather surprisingly, from the north-eastern corner. They were concentrated in gentle and moderately sloping terrain (Fig.41; Table 10) at intermediate heights (Table 10) along the flanks of the mountains, that is within a zone forming about 24 per cent of the region, Chi-squared tests suggest that these relationships were not the result of chance. Particular settlement clusters were found on the marine surface zone of the west coast, in the belt of country stretching from the 'Embros into Mésa Khória and behind Kolokythia Bay. Not only are these separate physiographic units, they are also amongst the most physically favoured parts of the region with some of its better soils.

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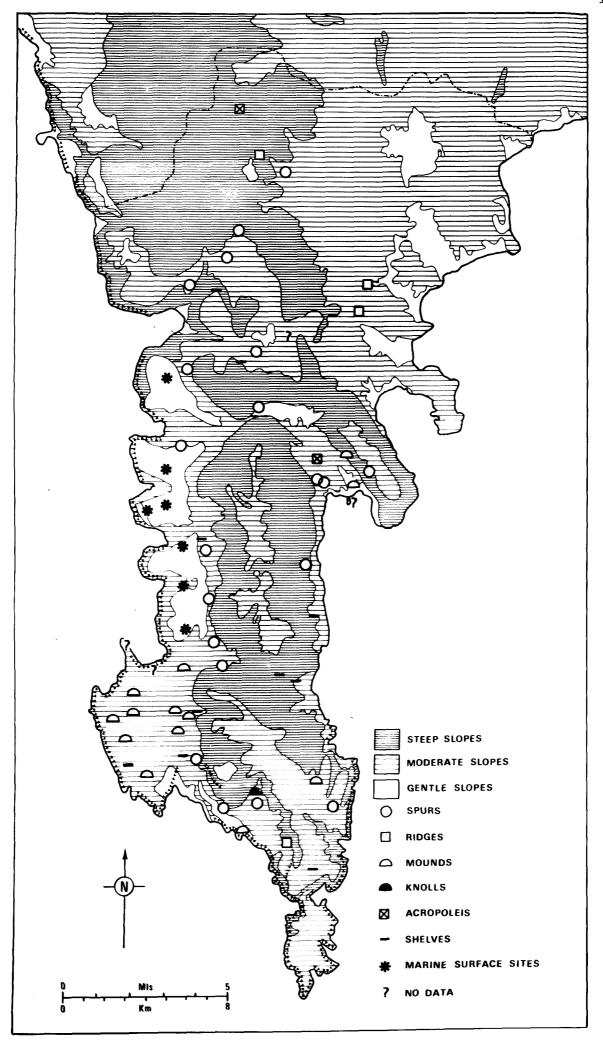


Figure 41: Settlement Sites, c.1618

Table 10: Comparative Settlement Data, c.A.D.174 and c. A. D.1618

er with residency to an indicate or established and another established and an established and an established and as the second of the second and the second of the second						
Characteristics	Settlements					
	A	.D. 174	A.D.1618			
	Number	Percentage	Number	Percentage		
Total Settlements	23	100.0	61	100.0		
Number within 0.5 kms of Coast	13 56.5		5	8.2		
Height Zenation (ii)						
0 - 99	17	73• 9	4	7.4		
100 - 199	4	17.4	18	33.3		
200 - 399	2	8.7	27	50.0		
400 - 599	0	0.0	3	5•6		
600+	O	0.0	2	3.7		
Sites						
Acropolis	0	0.0	2	3.6		
Knoll	0	0.0	1	1.7		
Marine Surface	1	4.4	7	12.5		
Mound	5	21.7	13	25.0		
Ridge	0	0.0	4	7.1		
Shelf	5	21.7	10	17.8		
Spur	4.	17.4	20	35.6		
Valley Floor	6	26.1	0	0.0		
Terrain						
Gentle Slopes	10	43.5	10	17.8		
Moderate Slopes	11.5	50.5	33	57.8		
Steep Slopes	1.5	6.5	6	10.6		
Gentle/Moderate	0	0.0	1	1.7		
Moderate/Steep	o	0.0	7	12.5		

Table 11: Sources of Water, c.1618

Source	No. of Settlements	Percentage of Total
Cisterns	42	75•0
Springs	6	10.3
Wells	3	5•2
Cisterns and Springs	4.	7.0
Cisterns and Wells	2	3• 5
Total	57	100.0

Most of them lacked running water, however, and this is reflected in the probable dependence of the great majority of settlements upon cisterns for their domestic needs (Fig. 42; Table 11). It is all the more surprising, therefore, that settlements were absent from the undulating terrain of the north-east, where there are several comparatively well-watered valleys with fertile soils, and where most settlements were concentrated in the late second century.

The reciprocal effects of points upon each other are revealed by the existence of what might be called "nearest neighbour structures" (Fig.43). These are discrete entities discovered by the simple device of drawing lines to link nearest neighbours. Twenty-five such structures can be created for the early seventeenth century, with between 2 and 4 members each, and they were separated from one another by an average distance of 2.1 kilometres. Physical conditions clearly provided a basis for the structures. Separation generally resulted from the intervention of difficult terrain between the structures, for example, the steep slopes of the high mountains separating Structures 1 and 2, while internal unity was given to 20 of the structures by local terrain, as in the case of the fragment of marine terrace underlying Structure 7.

However, examination of the nearest neighbour

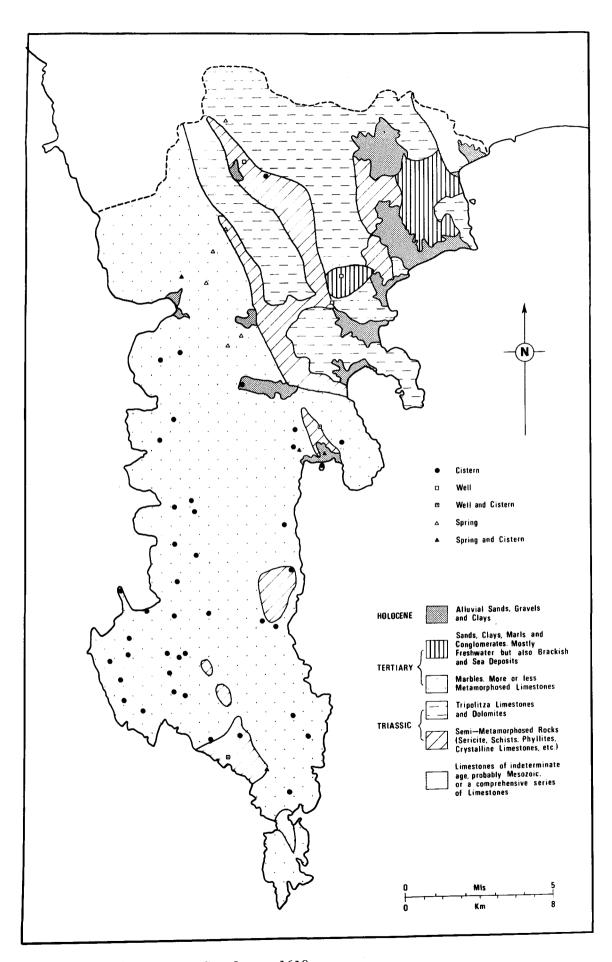


Figure 42: Water Supply, c.1618

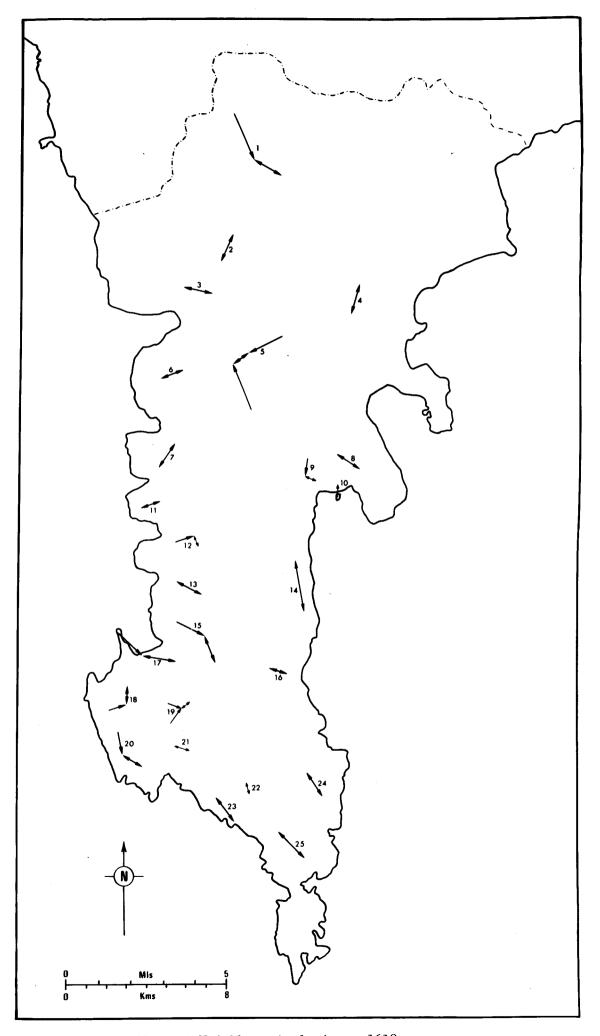


Figure 43: Nearest Neighbour Analysis, c.1618

structures in the light of place name forms and population size information contained in the same Nevers' source suggests that social, economic and political relationships existed between the members of each structure.

Table 12: Names Indicative of Possession or Dependency, c.1618

-		
	Name	No. of Settle- ments
1.	Charouda Chardiani	1
2.	di Chorogou	1
3.	di Chouchougliani	1
Lo	di Gardistia	1
5•	di Vacha	1
6.	di Condestauli	2
7.	di Nicliani	5
8.	di Cholochitia	8

All the structures were dominated by settlements which were at least 25 per cent larger than any other member (Fig.44), whilst 20 (32.8 per cent) of the settlements had suffixes indicative of dependency or possession (Table 12). Analysis of the suffixes is complex, and the "dependency structures" do not always coincide exactly with the nearest neighbour structures or with physically discrete territories. There was sufficient correspondence, though, to support the argument. The relationships between settlements were probably of the type normal between the constituents of feudal fiefs held by separate families, and involved dominance and

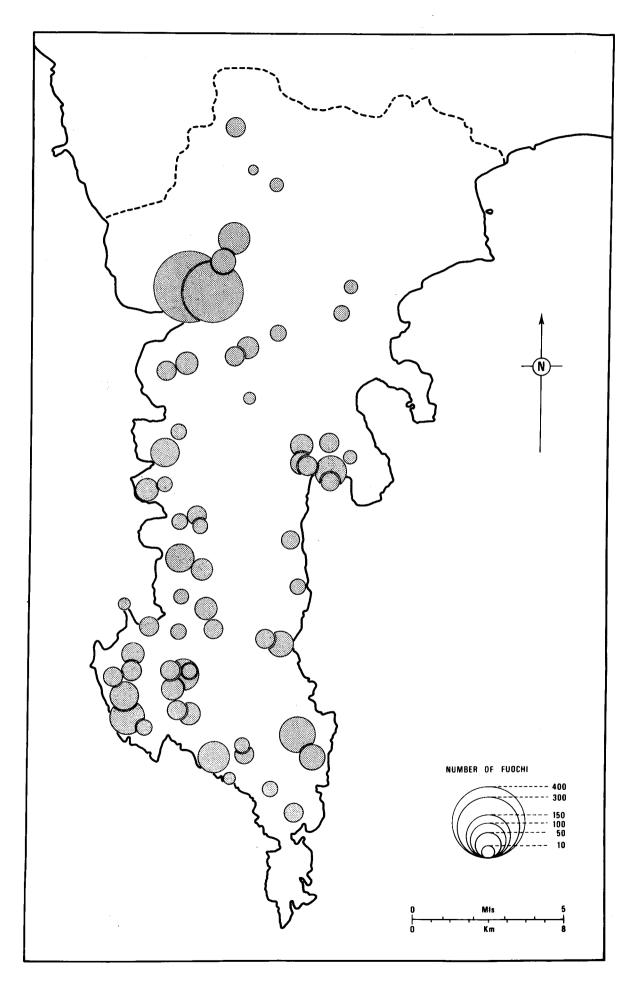
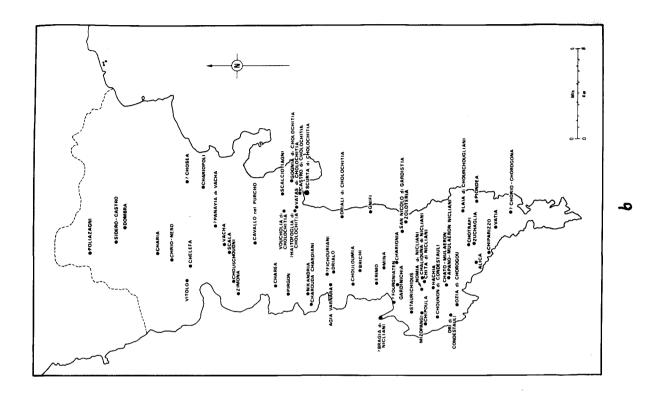


Figure 44: Settlement Size, c.1618

subordination of settlements, as well as differences in size of territory and mambers of settlements. The possibility of original mother-daughter relationships, which is most apparent in paired structures, whether of a place-name form or of a purely nearest-neighbour type, suggests a mechanism by which settlement locations were reciprocally affected. The location of a mother settlement would have affected the location of her dependent daughters and in turn their positions would have influenced the placing of any third generation settlements within a physically defined fief. Clearly, then, a case can be made for the shaping of the early seventeenth century settlement pattern by both physical facts and human forces. 9 los pulles

Stability and Discontinuity

Comparison of the early seventeenth century patterns with those for the late second century (Fig. 45) reveals two elements in the unfolding spatio-temporal structure of the region. A degree of stability is evident from continued occupation in the immediate vicinities of the ancient poleis of Kaenepolis, Oetylus, Pyrrhichus and Teuthrone. The dominant impression, however, is one of radical change, even of discontinuity. Settlements increased in number from 23 to 61 (Table 10). The total within 0.5 kilometres of the present coastline declined from 13 at the end of the second century to 5 in the early seventeenth century. More marked was the disappearance of settlements from the apparently well-endowed north-eastern area and their increase on the arid, high marine terraces of the west and south-west. Largely in consequence of these horizontal changes, the height zonation and site preferences of the settlements radically altered (Table 10.). These characteristics of the spatio-temporal structure of settlement in the Mani raise two fundamental problems. One is the dating of the changes; the other is the reason for the particular form of unfolding observed.



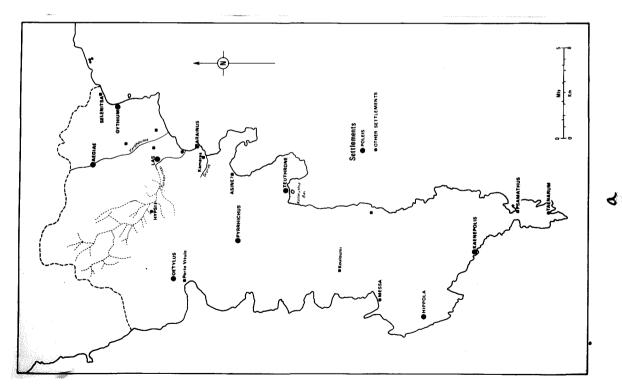


Figure 45: Radical Changes in Settlement Patterns

a. Roman Period

b. Early Seventeenth Century

Chronology

Change can be isolated a little more closely in time than the 1440 years lying between the two period reconstructions. Coins from the site of Gythium indicate that some form of occupation continued there at least until the reign of Constantine the Great (A.D. 311-337).4 Although the settlement was the most important in the region during Roman times, no mention was made of it in the treatise on imperial administration. written by Constantine Porphyrogenitus in the tenth century, but drawing on older materials. The most important settlement in the region known to him was Maini, and, though the precise location is disputed, nobody has suggested that it should be identified with Gythium. Cyriaco of Ancona, who visited the ruins in the first half of the fifteenth century, made no mention of a contemporary settlement. 6 Although the evidence is rather negative, desertion seems probable and may have taken place before the tenth century. Occupation may have continued at Kaenepolis until at least the sixth century, when the port was mentioned by Procopius in connection with Byzantine campaigns against the Vandals, whilst two early churches in the vicinity have been rather unsatisfactorily dated to the same period. The account of his travels written by Cyriaco of Ancona mentioned a settlement in the southern part of the region called Cyparissea, which may be identified as early seventeenth century Chiparizzo end later Kyparisso. This settlement lies in the vicinity of ancient Kaenepolis, and the change in name may indicate a break in the settlement history of the locality.

Taking the fragmentary evidence about Gythium and Kaenepolis together, it is possible that changes in the regional pattern of settlement were contemporaneous with the abandonment of these poleis. Setting the limits as widely as possible, this might have been between the sixth and fifteenth centuries. A degree of refinement can be introduced by reconsidering the evidence of medieval churches now found in Mesa Mani. The location of churches does not necessarily indicate the precise location of settlements, but it is obvious that their broad distribution in Mesa Mani is similar to that of early

seventeenth century settlements (Figs. 39 and 40) and that the densities of the two are greater here than elsewhere in the study region. The conclusion may be drawn that the building of churches was related to the change in settlement patterns. The earliest churches have been dated to the fifth or sixth century, and building may have declined after the completion of the Frankish conquest, c.1248. The implication might be that the transformation of the settlement patterns had also taken place before the same terminal date, though the new pattern may have been reinforced by spreading. If these suggestions are correct, then the settlement pattern of the study region was transformed between the middle of the sixth century and the middle of the thirteenth century. Explanations must be sought which either arise from conditions in this period, or which, perhaps, culminated during it.

Simulation

Explanation for the particular unfolding of the spatio-temporal settlement structure of the Mani is rendered problematical by the existence of a major discontinuity. Historians of a previous generation were inclined to attribute similar breaks to some great disaster which virtually eliminated all traces of former settlement patterns and led to the creation of entirely new structures. 11 The Arab threat from Crete during the period 823/28 to 961 and the Slav settlings in the Peloponnese during the sixth to eighth centuries might be viewed as providing the required disasters here. However, there seems to be no written evidence for an Arab attack on any part of the Maniat coast, despite its proximity to the Great Island. Its comparative poverty is unlikely to have attracted the Muslim pirates, whilst continuity in the exposed situation of Kaenepolis/Kyparisso seems to deny the effectiveness of any seaborne attacks in relocating settlements. Slavs may have settled in the region, as the place name data appear to indicate, but no evidence has come to light for violent destruction at the crucial time. Indeed, the mountain location of most of the northern group of possible

Slav settlements and the peripheral position of the southern group with respect to the second century settlement pattern might point to peaceful penetration and the filling up of gaps in an already existing pattern. E vidence for intrusions of other alien people into the region between the sixth and the thirteenth centuries is virtually non-existant. Although the so-called Chronicle of Monemvasia mentioned several places to which people fled from Lakedaimonia before the advance of the Slave, the Mani was not one of them, while an alleged evacuation from the head of the Laconic Gulf may have been copied from Strabo. 12 Although there were Frankish fiefs and two castles in the region. 13 the impact of the Latin conquest of the Peloponnese on the population and settlements of the Mani is unchronicled. The settling of people from the town of Nikli, near modern Tripolis in 'Arkadia, after its destruction in 1295 has been used to explain the seventeenth century place name di Nicliani and associated names and terms. 14 If correct, this migration would substantiate the hypothesis that the Mani was settled by that refugees, and support the idea/they transformed the settlement patterns. Unfortunately, an alternative and more plausible explanation can be offered for the Nikliani, and the whole dizzy structure is rendered void.

Negative arguments are always unsatisfactory, but there seems no evidence to support the hypothesis of an externally induced cultural break which might have produced discontinuity in the unfolding spatio-temporal structure of Maniat settlement. An alternative explanation might lie in forces indigenous to the region and internal to the settlement pattern itself. This hypothesis is particularly attractive since the evidence of both stability and discontinuity suggests that Maniat settlement behaved like a "structurally stable dynamical system" between the late second and the early seventeenth centuries. Assuming the interpretation is correct, then the branch of topology known as catastrophe theory offers a theoretical simulation for the unfolding of the Maniat settlement pattern through time. The simulation must be explained. 17

each of the world

In geometrical terms, the settlement pattern existing in any region may be viewed by means of a quantity α (x,t), which measures the attractiveness for occupation of location x at time t. A relatively large number of settlements would be expected where x attained a maximum value, that is in the vicinity of those points x such that, for all nearby points x, $\underline{\angle x(y)} \angle \underline{\angle x(x)}$. A given maximum of $\underline{\angle x(y)}$ may vary its position continuously through time under the influence of a wide variety of continuously changing factors, or control parameters. It is even possible for a given maximum to disappear and a new one to appear elsewhere. Such changes would probably be accompanied by rapid changes in the controlled variables- settlement patterns in the present problem. The possibility exists, then, of continuous changes in the controls resulting in discontinuous changes in the controlled variables, even though the relationships between the controls and the controlled variables are described by continuous, or even differentiable functions. In topological terms, this means that a catastrophe has taken place. The concept here can perhaps be best understood by analagy: a catastrophe occurs when a continuous rise in temperature suddenly causes water to boil, or when an electrical circuit suddenly flips into a new oscillation. 18

Returning to the Mani, it is clear that the greatest number of settlements was found in the north-east during the late second century, but in the south-west during the early seventeenth century. In other words, the value of $\times_{\mathbf{t}}$ seems to have changed between the two periods. To simulate the changes which occurred, it is necessary to join the two districts by a line through the Milolanghadha and along the marine surfaces (Fig.46). This allows attention to be focused upon the variations along the line - a device which has the operational advantage of restricting the position variable \mathbf{x} to a one-dimentional mathematical region. The line may be parametrised for the late second century by the real numbers \mathbf{x} with $0 < \mathbf{x} < 1$, taking $\mathbf{x} = 0$ to lie in the 'Embros, $\mathbf{x} = 1$ in the north-east and $\mathbf{x} = \frac{1}{2}$ in the Milolaghadha, where conditions are too restrictive for settlements to have proliferated.

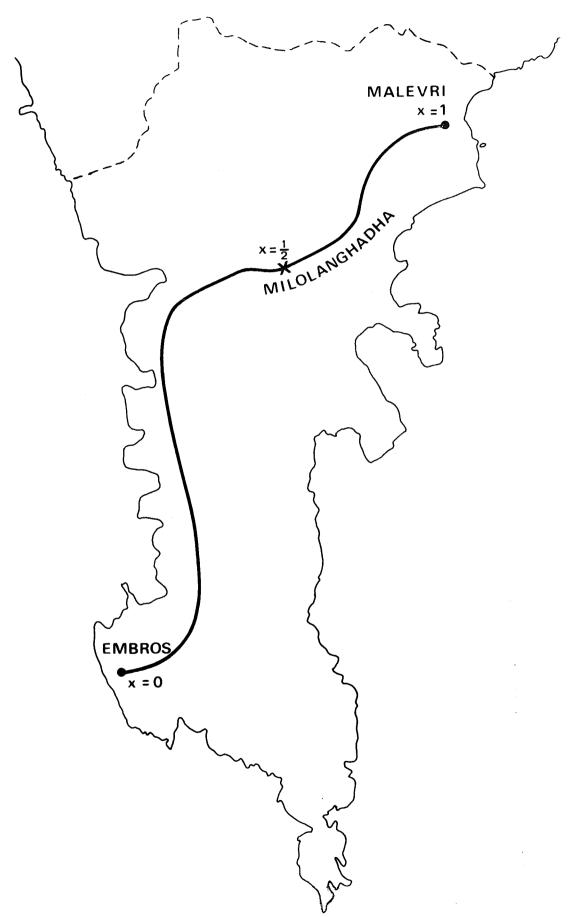


Figure 46: Arc Joining the Main Settlement Concentrations of the Late Second and Early Seventeenth Centuries

Parameters

Further application of the catastrophe model requires the isolation of control parameters affecting the attractiveness of the position variable, x. Special attention must be given to the north-east and the south-west, since these were the areas where attained maxima at the terminal periods. The possibilities can be reduced to two-security and the availability of cultivable land.

The later Roman Empire experienced a decline in security by land and sea. 19 Although piracy and privateering increased, much of the Mani was probably protected from attack by its relative poverty and its cliffed coastline. In any case, it should be noted that a difficult coast is one reason for the lack of coastal settlements in the region, whilst the peninsular form may have been decisive. Sea distances are long and, when the number of settlements in the region increased, maritime communications would have declined in importance as too expensive in time and freight costs to be worthwhile. Land routes would have been much shorter and easier for internal communication. The limited external trade of the region was probably handled from skales, rather than permanent settlements.

The small coastal plains of the north-east may have been more exposed to sudden raids from the sea, since landing would have been comparatively easy and the area contained more settlements, and relatively wealthy ones at that. Vandals harassed the coasts of the Peloponnisos from North Africa, Corsica and Sicily, and their king, Gaiseric (428-77) appeared off Taenarum on at least one occasion; 20 they may have provided the first real threat. Vandals may have been followed by Arabs, who were especially dangerous to the Peloponnisos after they had conquered Crete. They, in turn, may have been followed by Normans once Sicily had been seized (1060-1091) and Normans have been responsible for the abandonment of early Byzantine Maini which has been tentatively identified with the Tigani.

More important, however, was the risk of attack by land from the north.

The relative insecurity of "hollow Lakedaimon" had been exposed again when firs

Goths and then Vandals swept down upon Sparta during the fourth and fifth centuries. 21 It would have been but a day or two's march to the vicinity of Gythium, and as in earlier centuries, 22 the intervening terrain would have offered little obstacle. Slavs may have entered the north-east corner of the Mani along much the same routes, across the Vardhounia hills or through the 'Elos Flain. The newcomers retained a rebellious independence on the fringes of Taygetos through the tenth and into the thirteenth century. Terrain conditions, as well as earlier and later historical experience, suggest that the north-eastern corner of the Mani could not have withstood a Frankish advance for long, and though few details are known, it was controlled by the castle of Passawa from 24, about 1248. The district must have remained insecure even after 1262 when the Mani became a Byzantine foothold in the Pelopónnisos and the war was resumed.

Whilst the north-east was thus exposed to relatively easy attack, the west and south-west were comparatively secure from landward threats. The spinal mountains and the lengths of rocky marine surface had to be negotiated to reach them; advance could easily be impeded at several places, but especially in the narrower sections of the Milolanghadha.

Once the security factor had begun to operate on settlement patterns in the study region, it does not seem to have declined in strength over the next few centuries. Variation in the intensity of danger may have occurred, but for operational purposes this factor may be considered as a constant.

Geological and pedelogical conditions indicate that the north-east was probably the most favourable area for agriculture in Roman times. However, there was a phase of land abandonment within the Empire generally between the late second and the sixth centuries which may have affected the district. Jones has estimated that between 10 and 15 per cent of the cultivable land of the Empire may have been abandoned, and thought that, though the actual amount would vary regionally, much of it was

probably marginal for cultivation. References to the Mani are absent from the available sources, but it was probably affected by the trend.

phenomenon. The theory of manpower shortage lacks substance, ²⁷ whilst the contemporary explanation of excessive taxation, though favoured by Jones, ²⁸ cannot be tested in the Mani. A third explanation is afforded by what Jones called ecological deterioration. Although Jones argued against soil exhaustion as the reason for land abandonment, ²⁹ Vita-Finzi has presented overwhelming evidence for a widespread character change in Mediterranean valleys, which began in the late Roman period and persisted through the Middle Ages. ³⁰ This involved the aggradation of valleys and, in an area like the north-east of the Mani, may have produced extensive winter flooding, leading ultimately to the formation of the marshes which persisted until recent times. Marsh conditions, in turn, would produce a favourable breeding environment for mosquitoes, the existence of which is well-attested from Yithion and the 'Elos Plain from the late nineteenth and early twentieth century. ³¹

The causes of these environmental changes have not been finally established. Vita-Finzi has argued that the widespread nature of the phenomena must indicate climatic change, though conceding the important role of sheet wash resulting from unwise land use. Work on western Turkey has suggested that intensive economic activity in the hinterland during Hellenistic and Roman times was responsible for the silting up of bays upon which such towns as Ephesus and Miletus had once flourished. On a smaller scale, these developments may have taken place in the hinterland of Gythium.

The apparent wealth and size of the <u>polis</u> centre in the second century suggest that Roman Gythium may have been the centre of considerable economic activity. Timber had probably been cut on neighbouring hills to supply the Spartan dockyard, but in Roman times the intensity of cutting

may have been increased to build merchant ships. In any case, the ordinary demands of a large settlement for constructional timber and fuel, both industrial and domestic, are considerable and unrelenting; they could have deforested large areas of the north-east. At the same time, increasing amounts of land would have been required to feed a comparatively large, non-agricultural population. Sheet erosion may be expected to have developed on the hills of the north-east, once the tree cover was removed and cultivation initiated. Degradation of the hill land and aggradation and flooding in the valleys would result. The situation, however, was complicated by the 2 to 3 metre rise in sea level apparent at Gythium and Skutári, since this must have increased flooding but at the same time aided the spreading of silts brought down from the interior.

Deterioration in cultivable land may have been sufficient to disperse population from the Roman settlements of the north-east Maniand increase the value of inferior agricultural land elsewhere in the peninsula. Elevation may have spared the marine surfaces and the 'Embros from the worst effects of change, whilst their stony soils came to be more highly regarded as offering at least a chance of subsistence within the home region.

Reassessment of the potentialities of the peninsula may have been assisted by further developments under the later Roman Empire. A generally deteriorating economic situation between the third and sixth centuries may have reduced the demand for luxury goods, such as the exotic stone produced within the region or very close to it. This could have weakened the viability of some settlements in the region, especially Gythium. Sparta may have lost population and contracted physically in the third and fourth centuries, when the acropolis of the Roman town was fortified (after A.D. 267), and again in the fifth century. Events at Sparta may

have reflected changes throughout Lakedaimonia, where land abandonment may have been encouraged by the wintering of Alaric's Gothic army there in 395-96. Such changes in the hinterland may be expected to have affected Gythium's trade, and decay at Gythium would have had ramifications in neighbouring plains and valleys, which may have supplied its market. Hising sea level in this period may also have created difficulties for the port by progressively drowning harbour works. At the same time, ships may have been allowed to move up the Vasilopótamos, and perhaps the Evrótas, as far as modern Skála, thus depriving Gythium of such Lakedaimonian trade as was still available. As the town decayed, the prosperity of the whole north-east may have declined.

Application of the Model

possible to see how they might have affected settlement patterns in the study region. When attractiveness (\propto_{\pm}) was greatest in the northeast, the settlement graph would look something like Figure 47a. On the other hand, if the danger from the north was sufficiently acute at any time to drive people into the relative security of the south-west, the settlement pattern should produce a graph similar to Figure 47b. At times when there was a threat and reasonable agricultural conditions in the north-east, the graph for \propto_{\pm} could be expected to have the form in Figure 47c, while deterioration in the agricultural conditions of the north-east and a withdrawal of the northward threat to security might produce a situation where neither the south-west nor the north-east enjoyed any particular attraction (Fig.47d).

These heuristic considerations strongly suggest that a useful geometrical model of the Maniat spatio-temporal structure unfolding between the mid-sixth and mid-thirteenth centuries is provided by the

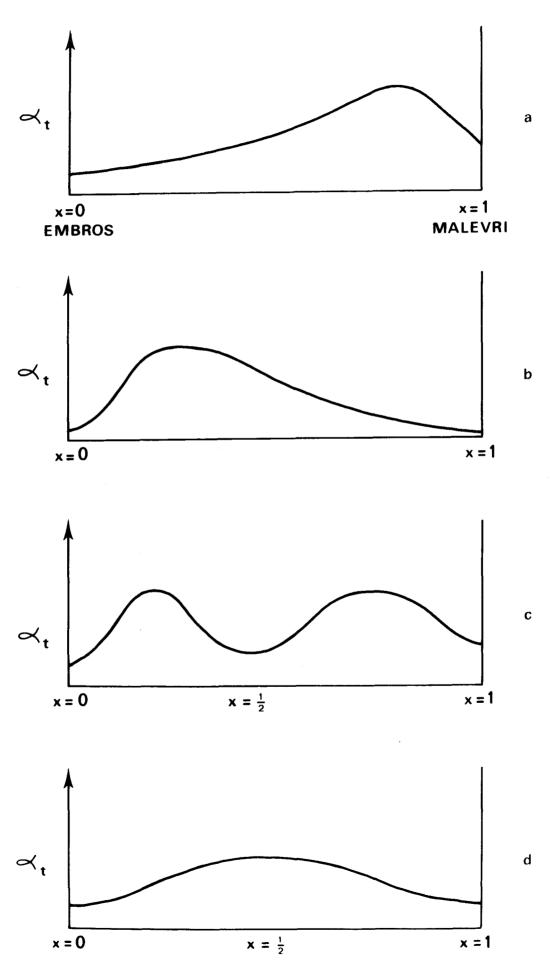


Figure 47: Graphs of "Attractiveness" ($\stackrel{\textstyle \,\,\,\,}{\,}$ t)

cusp catastrophe, which, according to Thom, is practically the only geometrical model applicable to the present problem.³⁷

In terms of the <u>cusp catastrophe</u>, the position X of the maxima and minima of α_t may be related to the control variables D and T by the equation

2X - (D+Y)X + (D-Y) = 0

where D is the danger of landward attack and F the agricultural state of the north-east. Thus, the relationships of D and F change through time, the pair (D,F) parametrise the plane, and move the position variable X along a scale between 0 and 1. The three variables (D,F,X) together parametrise a smooth surface in three-dimensional space. That part of the surface which lies below the fold represents minima of x - locations where settlements are least likely to be found. Thus, the actual surface parametrised by the points (D,F,X), where X is at the maxima of x for given values of D and F, has the form shown in Figure 48.

Figure 48 indicates how the observed unfolding of the spatiotemporal structure could have been produced by a steady decline in cultivation conditions in the north-east, and with no appreciable variation in the security situation measured by D. In the model, the evolution of the pattern of maxima of X of < would run as follows. In the late second century the were two local maxima, one in the hinterland of Gythium and one in the 'Embros. As conditions deteriorated in the north-east, two local maxima could persist for quite a long time, but eventually the upper maximum would disappear, and only the lower, south-western maximum survive. Around this time, a fairly rapid redistribution of settlements along the arc should be envisaged, with population from the north-east founding new settlements in the west and especially in the more favoured area of the 'Embros. Long before this situation developed, however, the south-west would already have become relatively more attractive than the north-east. However, it was only with the final disappearance of the local maximum in the north-east, that the catastrophic change in settlement

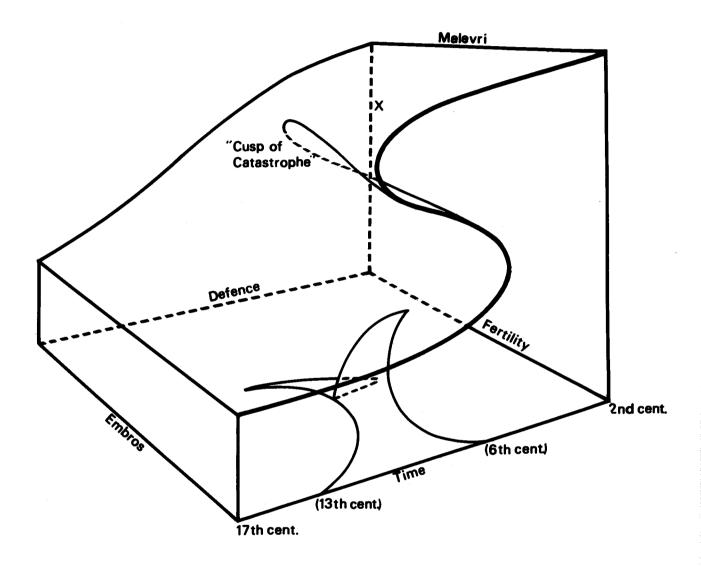


Figure 48: Catastrophe Graph for the Mani, Second to Seventeenth Centuries

patterns would occur - an event perhaps marked by the sudden appearance of the mame Maini in the records. Conversely, improvement in the attractiveness of the north-east was crucial to the developments in settlement patterns after c.1618. The great advantage of this topological model is that it provides a way of understanding how radical change could occur over time within a system, like a settlement pattern, as a result of processes operating continuously within it. More information about socioeconomic change in the Mani is available for the period from c.1618 to c.1830.

References

- 1. P. Charanis, Observations on the History of Greece during the Early
 Middle Ages, Balkan Studies, 11 (1970), pp.1-34; H.E. Lurier,

 Crusaders as Conquerors. The Chronicle of the Morea. Translated

 from the Greek. with Notes and introduction, (Columbia University, 1964),

 pp.158-60; M. Vasmer, Die Slaven in Griechenland, Abhandlungen der

 Preussishen Akademie der Wissenschaften. Philosophisch-historische

 Klasse, Nr. 12 (Berlin, 1941), pp.165-73.
- 2. A. Ducellier, Les Albanais dans les colonies vénitiennes au XVe siècle, Studi Veneziani, 10 (1968), pp.47-60; W.M.Leake, Travels in the Norea. (London, 1830), Vol. 1, pp.130, 264; A.Philippson, Zur Ethnographie der Peloponnes, Petermanns Geographische Mitteilungen, 36 (1890), pp.1-11, 33-46; N.D.Sathas, Documents inédits relatifs à l'histoire de la Grèce au moyen âge. Vol.5 (Paris, 1883) p.35, Vol.6 (Paris, 1884), p.65.
- P.J. Clark, Grouping in Spatial Distributions, <u>Science</u>, 123 (1956)
 pp.373-4.
- 4. T.E. FIXVVXKOTTOULOU, TO FUBEIOV, (Athens, 1966), PP. 184-93.
- 5. G. Meravcsik and R.J.H. Jenkins, <u>Constantine Porphyrogenitus</u>,

 <u>De Administrando Imperio</u>, (Budapest, 1950), 50.70-82
- 6. R. Sabbadini, Ciriaco d'Ancona e la su descrizzione autografa del Peloponneso trasmessa da Leonardo Bottà, <u>Classici e Umanisti da Codici Ambrosiani</u>, (Florence, 1933), pp.29-30.
- 7. Procopius, History of the Nars, 111.13.8; 111.23.16
- 8. Δ. Β. Βαγιακάκου, <u>Μάνη (Μεσα Μάνη). 'Ο Πόπος,</u>
 Οί Βυζαντίνοι Ναοί, Οί Πύρχοι καὶ το Μοιραλόγοι,
 (Athens, 1964), p.q.
- 9. Sabbadini, op.cit., pp.25-26,

- 10. H. Megaw, Byzantine Architecture in Mani, <u>Annual of the British</u>

 <u>School at Athens</u>, 33 (1932-33), pp.137-62; R. Traquair, Laconia III.

 The Churches of Western Mani, <u>Annual of the British School at Athena</u>, 15 (1908-09), pp.177-213.
- 11. Examples include the change from Romano-British to Anglo-Saxon patterns of settlement in England (P.Hunter Blair, An Introduction to Anglo-Saxon England, Cambridge 1956, pp. 1-27) and, in Greece, the end of the Minoan or Mycenaean periods (H.G.L. Hammond, A History of Greece to 322 B.C., Oxford, 1959, pp.33-35, 72-79).
- 12. P. Charanis, The Chronicle of Monemvasia and the Question of Slavonic Settlements in Greece, <u>Dumbarton Oaks Papers</u>, 5 (1950), pp.141-66; P. Lemerle, La chronique improprement dite de Monemvasie: le contente historique et legendaire, <u>Revue des Studes Byzantines</u>, 21 (1963), pp.8-11.
- 13. A. Bon, La Morée franque. Recherches historiques, topographiques et archéologiques sur la Principauté d'Achaie (1205-1430) (Paris, 1969), Appendix A: J. Longnon and P. Topping, Documents sur le résime des terres dans la Principauté de Morée au XIVe siècle, (Paris and The Hague, 1969), Document 1, pp. 19-29 and Appendix II, pp. 253-54.
- 14. Δ.Β. Βαγιακάκου, Συμβολη είς τὰ Τερὶ Νικλων-Νικλιάνων της Μάνης, 'Αθηνα,
 53 (1944), 19.147-94; Δ.Β. Δημητράκου-Μεσίσικλη, Οι Νυκλιάνοι (Athens, 1944), 118;
 P.L. Fermor, Mani: Travels in the Southern Peloponnese. (London,
 1958), pp.86-87.
- 15. Sathas, op.cit., Vol. 4 (Peris, 1882) pp.xl-xli.
- 16. R. Thom, Topological Models in Biology, <u>Topology</u>, 8 (1969), pp. 313-35; E.C. Zeeman, The Geometry of Catastrophe, <u>Times</u>

 <u>Literary Supplement</u>, 10 December, 1971.

- 17. I am grateful to Professor S. A. Robertson of the Department of Mathematics, Southampton University, for considerable assistance with catastrophe theory.
- 18. Zeeman, op.cit.
- 19. A.H.M. Jones, a) The Later Roman Empire. 284-602, 3 Vols.,
 (Blackwell, Oxford, 1964);
 - b) The Decline of the Ancient World (London 1966).
- 20. Procopius, op.cit., III, 22.16.
- 21. G. Finlay, Greece under the Romans, 146B.C. to A.D.716,

 (Oxford, 1844), pp.190-91; R. Traquair, Laconia II, Excavations at Sparta, 1906, No.12. The Roman Stoa and the Later Fortifications,

 Annual of the British School at Athens, 12 (1905-06), pp.414-30.
- 22. For example, the Theban army penetrated the area without difficulty in 370 B.C. (Xenophon, <u>Hellenica</u>, VI.5.32) and Macedonian troops plundered it during 338 B.C. (Polybius, V.19.4-8).
- 23. D.J.Georgacas, The Medieval Names Melingi and Ezeritae of Slavic Groups in the Peloponnesus <u>Byzantinische Zeitschrift</u>, 43 (1950), pp.301-33; Lurier, <u>op.cit.</u>, pp.119-20, 203, 205: Moravcsik & Jenkins, op.cit., 50. 70-82.
- 24. Bon, op.cit. Lurier, op.cit., pp.158-60.
- 25. Jones, Later Roman Empire, op.cit., Vol.2, pp.812-23.
- 26. Jones, Decline of the Ancient World, op.cit., p.309.
- 27. A.E.R.Boak, Manpower Shortage and the Fall of the Roman Empire in the West, (University of Michigan, 1955); Jones, <u>Later Roman Empire</u>, op.cit., Vol.2 p.817; Jones, <u>Decline of the Ancient World</u>, op.cit. pp.114-15, 307.
- 28. Jones, <u>Later Roman Empire</u>, <u>op.cit</u>., Vol. 2, pp.784-96;

 <u>Decline of the Ancient World</u>, op.cit., pp.292-93, 308.
- 29. Theory first advanced by V.G.Simkhovitch, Rome's Fall Reconsidered,

 <u>Folitical Science Guarterly</u>, 31 (1916), pp.201-43 and E.Huntingdon,

 Climatic Change and Agricultural Exhaustion as Elements in the Fall

- of Rome, <u>Quarterly Journal of Economics</u>, 31 (1917) pp.173-208; Jones, <u>Later Roman Empire</u>, <u>op.cit.</u>, Vol.2, p.816; Jones <u>Decline of the Ancient World</u>, <u>op.cit.</u>, pp.305-07.
- 30. C. Vita-Finzi, The Mediterranean Valleys: Geological Changes in
 Historical Times. (Cambridge, 1969).
- 31. A. Philippson, <u>Der Pelovonnes</u>. (Berlin, 1892), pp.216,487;
 M.C.Balfour, Malaria Studies in Greece. Measurements of
 Malaria, 1930-1933, <u>American Journal of Tropical Medicine</u>, 15
 (1935), pp.301-30.
- 32. Vita-Finzi, op.cit., pp.107, 116-20.
- Orman Fakultesi Dergisi. Istanbul Universitesi, 5 (1955),

 pp.19-42; D. Eisma, Beach Ridges near Selçuk, Turkey,

 Tijdschrift van het Koninklijk Nederlandsch Aardrijkskundig

 Genootschap, 79 (1962), pp.234-46; R.J.Russell, Alluvial

 Morphology of Anatolian Rivers, Annals of the Association of

 American Geographers, 44 (1954), pp.363-91.
- Theophrastus, On Plants, IV.5.5. Thucydides, 1.108.5 mentions the Lakedaimonian dockyard, which A.W.Gomme, An Historical Commentary on Thucydides, Vol. 1., (Oxford, 1945), p.320 has identified with Gythium. It is also mentioned by Polybius, V. 19.4-8, and has again been accepted as lying at Gythium, F.W.Walbank, A Historical Commentary on Polybius, Vol. 1, (Oxford, 1957) p.555.
- pp.769-72; 1038-48. Quarrying in the Manil suggested by antico-rossa at Sparta and by Strabo VIII. 5.7 and Pliny, Natural History, xxxvi. 28.135, xxxvi. 42.158.
- 36. Traquair, Laconia II, on.cit.
- 37. Thom, opecit., and advice of Professor Robertson.

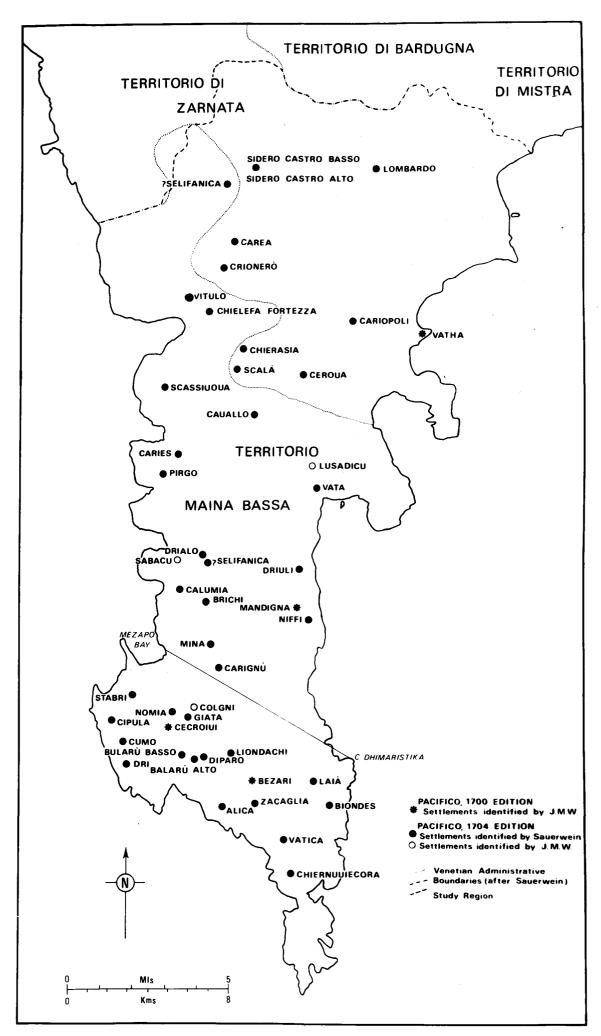


Figure 49: Settlements in the Study Region, c.1700

CHAPTER 7: COLONISATION AND SPREAD, c.1618 to 1830

Early Nineteenth Century

Although the lists of settlements published by Pacifico in 1700 and 1704 allow a settlement pattern to be reconstructed (Fig.49), there are good reasons for thinking it is incomplete for the Mani, whatever the case may be elsewhere in the Morea (pp. 19-20). The map and population enumeration produced by the Commission scientifique de Morée more than a hundred years later provide much fuller and more reliable data.

Some 129 settlements existed in the study region c.1830 (Fig. 50). Nearest neighbour statistics of 1.0 for the whole region and 1.05 for the inhabited zone below 800 metres indicate a random distribution. However, examination of reflexive pairs produced results of 0.49 for the whole region and 0.51 for the inhabited area, and these are much lower than the theoretically derived value of 0.62 for a purely random pattern. Some degree of clustering is indicated, and the nearest neighbour results have probably been distorted by the elongated shape of the region. The clustering of settlements is apparent in several ways. The mountains alove 800 metres were unoccupied, whilst only 12 settlements (9.3 per cent of the total) lay within 0.5 kilometres of the coast. Most settlements were found on locally elevated sites along the flanks of the mountains (Fig. 51; Tables 13 & 14) and at altitudes between 100 and 400 metres (Table 15). Just over 50 per cent of the settlements were found in the tmima (administrative unit) of Maini which covered practically the whole of the west coastal zone with its high marine terraces (Table 16) - about j8 per cent of the study region. Since Chi-squared testing suggests that these distributions are not the result of chance, it looks as if the repulsion of the higher mountains and the cliffed coastline forced people to establish settlements in areas of moderate altitude and moderate gradient which generally had the added advantage of possessing cultivable,

wy wy



Figure 50: The Study Region c.1830, redrawn from the Carte de la Morée

Table 13: Settlement Sites, c.1830

Type of Site (Appendix IV)	Number	Percentage of Total
Acropolis	4	3
Knoll	7	5
Marine Surface	15	13
Mound	24.	19
Ridge	11	9
Shelf	21	17
Spur	41	34
Total	123	100

Table 14: Settlements and Slope, c.1830

Slope Category	Number	Percentage of Total
Gentle	18	15
Moderate	65	53
Steep	18	15
Gentle/Moderate	6	5
Moderate/Steep	16	12
Total	123	100

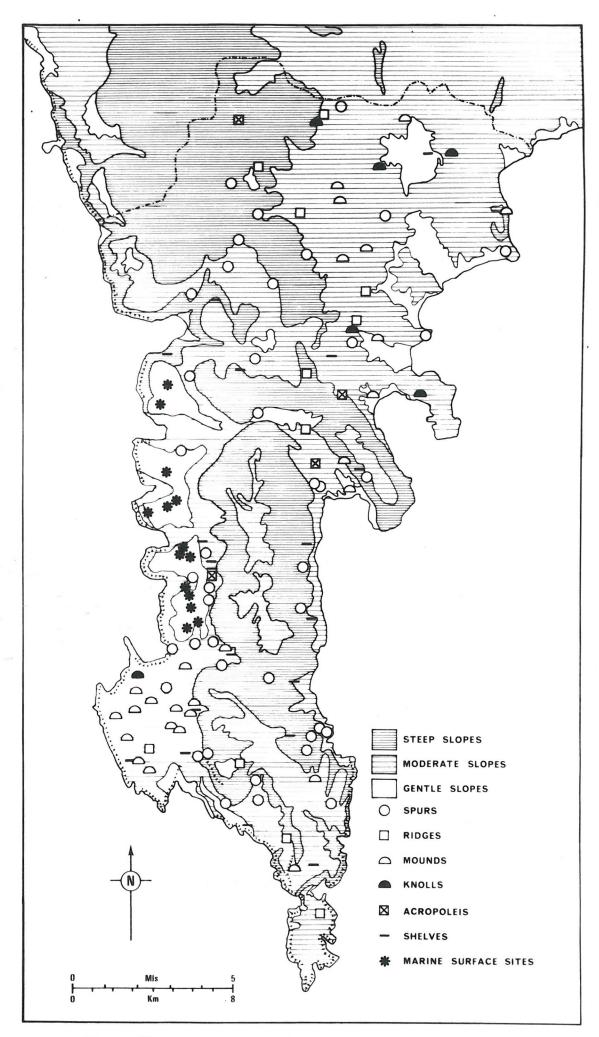


Figure 51: Settlement Sites, c.1830

Table 15: Settlement Elevation, c. 1830

Height Zones (metres)	Number	Percentage of Total
0 - 99	14	14
100 - 199	36	34
200 - 399	46	42
400 - 599	8	7
600 - 799	2	2
800 - 999	1	1
Total	107	100

Table 16: Distribution of Settlements by Tmima, c.1830

Tmimáta	Area (km²)	Percentage of Total Area of Region	No. of Settlements	Percentage of Total No. of Settlements.
Kolokythia	60.31	12	13	10
Lagia	49. 88	10	13	10
Maini	188•56	38	67	51
Malevri	133.89	27	20	16
Phocus	35•05	8	10	8
Trigonas	25•19	5	6	5
Region	492. 88	100	129	100

if often stony soils. Water supply had little influence on the pattern, for the limited contemporary evidence and present practice show that most settlements depended upon rain water stored in cisterns (Fig. 52; Table 17).

Table 17: Sources of Water c. 1830

Source	Number of Settlements	Percentage of Total
Cisterns	87	71
Springs	12	10
Wells	13	10
Cisterns and Spring	;s 7	6
Cisterns and wells	3	2
Springs and wells	1	1
Total	123	1.00

Further evidence of clustering lies in the 35 nearest neighbour structures constructed for the early nineteenth century (Fig.53). As in the early seventeenth century, these tended to occupy discrete physical areas and to be separated from each other by difficult terrain. It is within the structures that settlement locations may have had reciprocal effects upon each other and so produced the negative reflexive-pair values noted above. This would be the case most particularly if the nearest neighbour structures substantially represented traditional social communities of the type recognised by Andromedas in the southern Mésa Mani and in which there was "mutual exclusiveness in clan and phratry affiliations, and in the solidarity of stratified groups". Testing of these ideas is a little difficult, but two strands of evidence tend to support the hypothesis.

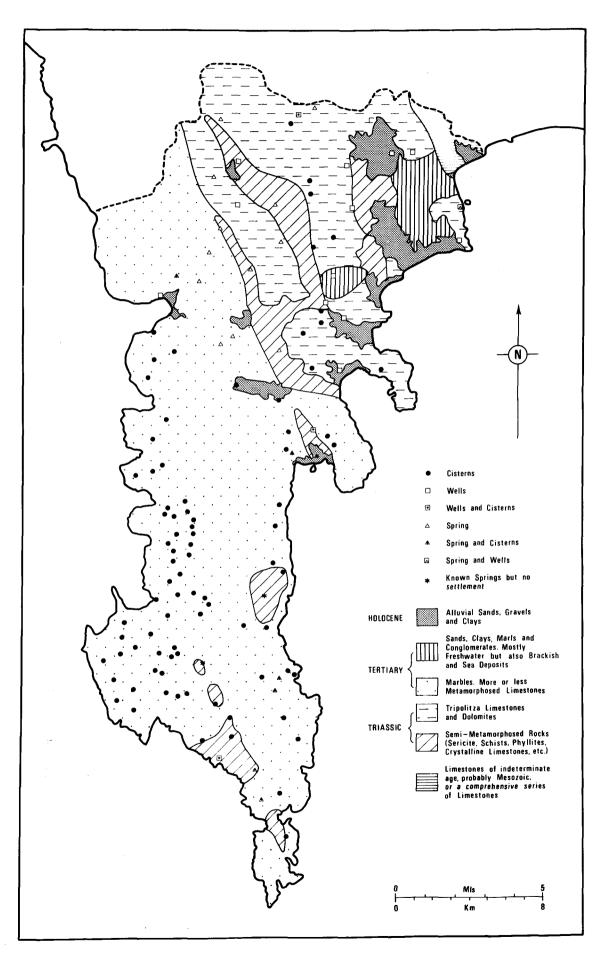


Figure 52: Water Supply, c.1830

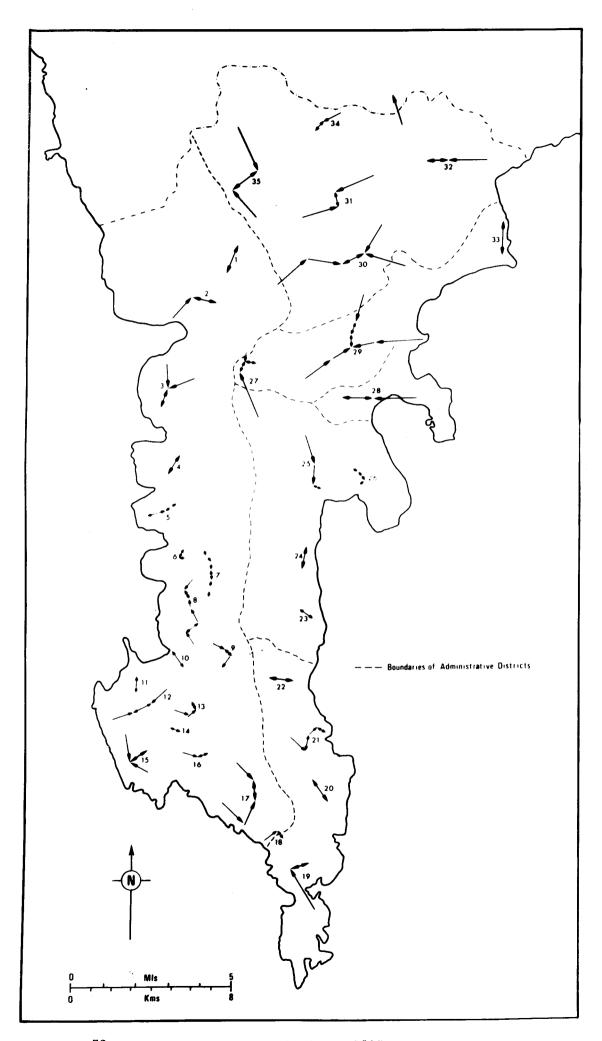


Figure 53: Nearest Neighbour Analysis, c.1830

First, there are two cases in which pairs of settlements were related by clan affiliations. The limited historical information on the reflexive pair, Mavrovouni and Marathonisi, on the north-eastern coast of the region (Fig. 50) attributes their foundation to Tzanet Grigoraki, Bey of the Mani from 1782 to 1798, whilst the Grigoraki clan has been dominant in both settlements since at least that time. Tsimova and Limeni, on the opposite side of the peninsula (Fig. 50), were similarly dominated by the Mavromikhali clan, and, whilst Tzanetbey had his castle of Melissi at Mavrovouni, Petro Mavromikhali (Bey 1815-21) had one of his residences at the little neighbouring port of Limeni.

The second strand of evidence is the size relationships of settlements within nearest neighbour structures (Fig. 54). All of the 31 structures where the populations of component settlements were given in the Commission's enumeration were dominated by one member which contained more than 28 per cent of the group's families. Eighteen were dominated by a settlement which contained more than 50 per cent of the population of the entire structure. This degree of dominance must indicate the exercise of some kind of power - social, economic or political - by the dominant over the rest of the group. In some cases, dominance might indicate that the smaller neighbours were actually daughter settlements recently founded by settlers from the centre, but in others the size of the largest settlement was clearly related to the concentration there of power exercised on a regional or sub-regional scale. The clearest example was the largest settlement in the region, Tsimova, which was the capital of the region during the rule of Petrobey Mavromikhali and contained 290 families c.1830. Just as the Mani as a whole was inhabited by a distinctive community, over which this remarkable man ruled, so at a lower level groups of Maniat settlements may have formed social microcosoms capable of producing new settlements within their own territories and, under certain circumstances, beyond them. The hypothesis is unproved, of course, but it will be used later in an attempt to explain changes in the

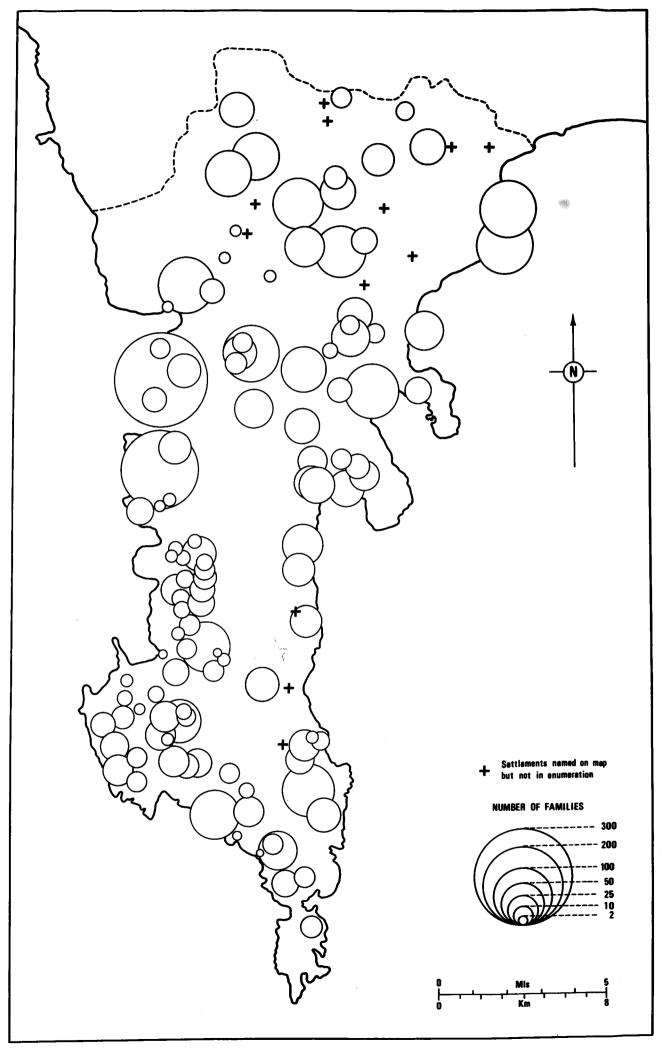


Figure 54: Settlement Size, c.1830

settlement patterns between the early seventeenth and the early nineteenth centuries.

Change

Changes are clear. Although a very large part of the study region remained uninhabited, between c.1618 and c.1830, the number of settlements more than doubled, from 61 to 129. Examination of Figure 55 shows that the development, which this increase involved, was largely one which elaborated and extended the early seventeenth century pattern, rather than drastically changed it. Whilst this pattern of development is true for the region as a whole, it was especially marked in some districts. For example, the increase of settlements within Maini tmima happened in areas where settlements were already established and took the form of an infilling of the space between old settlements, wherever slope and elevation allowed. In-filling of this type confirmed the clustering apparent from the nearest neighbour statistics for c.1618. A few new settlements also appeared on the coast, notably Marothonisi, the region's leading port in the early nineteenth century.

The most significant development took place in the north-east corner of the region, especially in Malevri tmima. Settlements reappeared there after a long period of desertion, indicating both the beginning of a recolonising movement, which was to continue into the mineteenth century, and the early stages of a reversal in the spation temporal structure outlined in the previous chapter. By contrast with Roman times, the new settlements were associated more with the hills of the area than its valleys and plains, though c.1830 some settlements were located on the fringes of the lowland.

The timing of these developments is important to an understanding of how they came about. Fortunately, a variety of evidence allows the period of growth to be roughly established. Pacifico's lists of c.1700, though incomplete, suggest that 9 settlements not traceable c.1618 had appeared

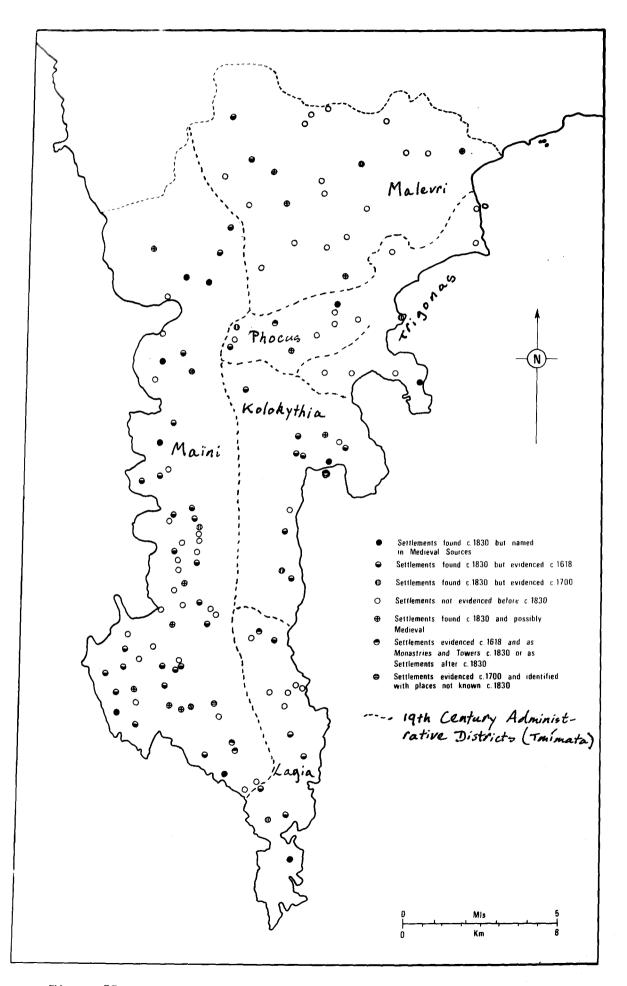


Figure 55: Development of Settlement Patterns: c.1618-c.1830

by the end of the century. Two of these were situated in the north-east, and perhaps allow the initiation of the recolonisation phase to be dated to the seventeenth century. Comparison of Pacifico's lists with names collected from the work of the <u>Commission Scientifique</u> shows that at least 57 settlements may have come into existence during the eighteenth century (Fig. 55), suggesting that this may have been the major period of growth. The possibility is confirmed by other lines of evidence.

Mavrovoumi grew up around the castle of Melissi, built by

Tzanet Grigorakis towards the end of the eighteenth century. This nearest

neighbour, Marathonisi, was in existence by 1795, but, as an important
port and political centre, appears to have grown rapidly in the early

decades of the nineteenth century (Fig. 56). Both settlements were

associated with the Grigoraki clan, whose main centre was at Skutari
earlier in the century. Skutari itself appeared after c.1618 and

possibly after 1700, but was described as the scene of severe fighting

during the latter stages of the Orloff Rebellion, 1770-74.

Late foundation dates may also be suggested for three other settlements. At Skyphianika, the author was told that the settlement had been founded about two hundred years before his visit, that is around 1760. The oldest church at neighbouring Skamnaki was reported by local people to have been erected c.1786, whilst a stone built into the principal tower at Pilala records the date 1776 and the tower's owners proudly boast that it withstood a siege about the same time.

A final strand of evidence can be added to the thread. The mapping of settlement form by the Commission Scientifique allows 63.2 per cent of the new settlements to be recognised as hameaux and 28.1 per cent as villages. The proportion of hameaux amongst the new settlements was greater than amongst the universal set for c.1830, which was 50.1 per cent.

A Chi-squared test suggested that the difference between the sub-set and the universal set was statistically significant at the 0.1 per cent level.

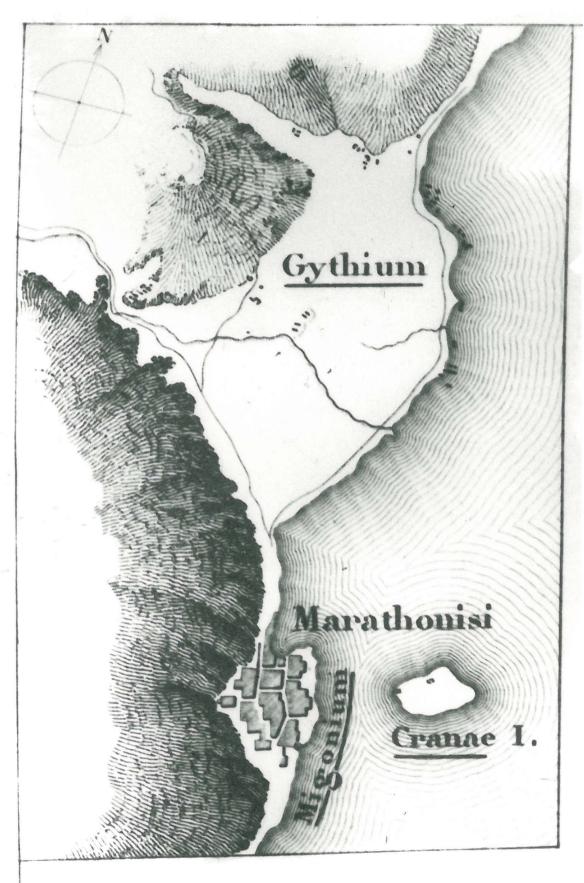


Figure 56: Plan of Marathonisi (See Fig. $_{35}$)

These individual strands of evidence are not particularly strong. Taken together, though, they do point to two things. Some settlements were probably founded between c.1618 and c.1700. The majority of new settlements, however, may have been established between c.1760 and c.1830, a view which is consistent with Leake's speculation that new villages may have arisen in the region between c.1795 and 1805. Both the spatial and temporal patterns now have to be explained.

Mechanisms

Examination of nearest neighbour structures for c.1618 and c.1830 revealed the existence of spatially discrete systems and raised the possibility that the members of each system were not only functionally connected but also genetically related. These conclusions are supported by some correlation between nearest neighbour structures and rank-rise groupings, based on population, as well as by general clustering effect. It is, thus, possible to base an hypothesis upon nearest neighbour results which will at least serve to open the search for explanations for the developments traced in the period now under discussion. The hypothesis may be specified as follows:

- 1) New settlements were established from settlements already existing in their immediate neighbourhoods.
- 2) Since there were apparently 61 settlements c.1618, and these had increased by 68 before c.1850, each early seventeenth century settlement might theoretically have produced at least one daughter during the period. Some clearly must have produced more than one daughter settlement, whilst it is likely that some old settlements produced no satellites at all.

- 3) We should assume, given the agonistic character of Maniat society, that most new settlements would have only one parent.
- 4) The parent settlements might be identified by discovering which of the old settlements were nearest neighbours to new settlements.

To test the hypothesis it was necessary first of all to check the settlement information actually available. This revealed that the existence of 52 settlements could not be established before c.1830. The nearest neighbours to members of the set were then identified amongst those settlements which are known to have existed before c. 1830. The pattern thus established might be modified if we included as potential parents all those possibly medieval settlements, the early foundation of which was supported by the analysis of place names not apparently recorded before the end of the study period. Those apparently medieval names found in the north-eastern corner were excluded from consideration, since settlement is not otherwise known in the modern period and the identification of medieval churches here is doubtful. However, supposedly early place names from the south-western part of the region were included, if their early existence was corrobrated by the existence of a securely identified medieval church, as at Gardenitsa (Vardenitsa) for example, which is possibly a Slav name.

Analysis revealed 17 cases where, for different reasons, the nearest neighbour relationship was unlikely to reflect the pattern of foundation (Fig. 57). Elimination of the doubtful cases left 35 settlements whose genesis might reasonably be expressed by nearest neighbour relationships. The hypothesis of foundation from an older nearest neighbour can be tested by independent evidence in only two instances, but was found to be correct. Both of the settlements concerned are situated at the head of the Porto Vitylo. The origins of Karavostasi, which lies on the northern side of the bay, can probably be discerned in a reference to "Vitulo castello e Porto" contained in

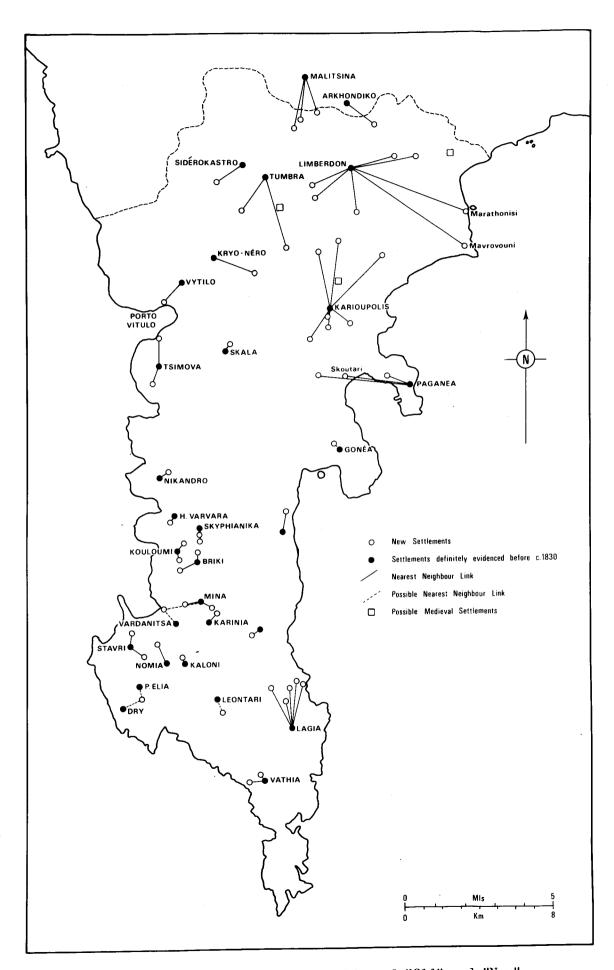


Figure 57: Nearest Neighbour Relationships of "Old" and "New" Settlements

the first edition of Pacifico's <u>Breve Descrizzione Corografica</u>, while memory of dependent status is contained in the form of the name employed in 1840, Kararov Ortor Ortor or — literally, "The Ship-stop of Oitylon". The settlement probably originated as a skala, around which a few permanently occupied houses were built. Limeni lies on the southern side of Porto Vitylo, and had Tsimova as its nearest neighbour. Leake's description of the settlement (Fig. 58) and his departure from it by sea, as well as references to the port of "Djimova" in connection with British naval operations in 1827, a leave no doubt of the connection with Tsimova and its dominant clan, the Mavromikhali. In both cases, it is virtually certain that the ports were founded from the larger settlements, whose rival interests they served.

Similar generic relationships may have existed in the case of other settlements. Proof, however, has been impossible to assemble from the available sources. Several possibilities emerge from further consideration of the nearest neighbour structures themselves. Thirteen of the possible parent settlements appear to have founded only one daughter each (Fig. 57). Eight old settlements may have established two satellites, whilst only one or two may have apawned three new settlements. Limberdon may have founded five new communities, excluding Mavrovoumi and Marathonisi, whilst Karioupolis, a much older settlement (Table 9), may have produced seven daughters. All these probable developments seem in line with point 2) of the initial hypothesis.

Over most of the peninsula, possible daughter settlements were rarely founded more than 1.0 kilometres from their presumed parent (Pig.56), thus supporting the initial suggestion of in-filling. The patterns of possible foundations from 4 settlements in Maini tmima may allow the suggestion to be taken further for they may indicate the initial establishment of towers either to blockade rival settlements or to protect the founding community's own land. These possibilities



Figure 54: View of Limeni from the South, 1963

will be discussed later.

In the north-eastern area (Fig. 57), three different patterns of foundation may be advanced, but not proved. Some of the new settlements may have been founded from such old-established centres across the "traditional" border of the Mani as Malitsina (known from c.1618) and Arkhondiko (first known c.1700). A second pattern appears to be roughly circular around Karioupolis and Limberdon, and gives the impression that much of the recolonisation of the surrounding areas took place without the hindrance of rival claimants to the land. The third pattern appears to involve the foundation of new settlements in the mountain fringes from Siderokastro and Tumbra, which were identified in the same terrain from at least c.1618.

later, but the nearest neighbour patterns and the other evidence seem to harmonise with the hypothesis advanced at the beginning of the subsection, though they do not prove it. New foundations were largely made around and between already existing settlements, often close to them. Generally, only one or two daughter settlements were founded by each parent, but three or more satellites may have been established in the exceptional conditions of the north-east, where there was much empty space. However, the existence of deviant cases shows that daughter settlements might be established at a long distance from the parent. In several cases, the parent has not been discovered and future work might concentrate upon the collection of foundation stories from Maniat settlements.

Towers

(31.8 per cent) were transformed in about a decade into settlements sufficiently large to merit government recognition as independent communities. The recognition of this development may be a step in isolating a process operative before the War of Independence. Caution, however, must be exercised since the Mani underwent considerable social and economic change after Greek Independence, and settlement genesis may have been modified.

Field study of 48 out of the 57 settlements apparently founded in the study region after c.1700 (84.2 per cent) produced information relevant to the problem (Fig.59). Forty of the sample settlements contained one or more towers and only 7, or possibly 8, did not produce any traces of these characteristic structures. Where towers did exist, though, there was no way of dating them. They might have predated the rest of the settlement. Some of them, though, could have been built after Independence, possibly by nouveeux riches.

class. They, therefore, had great influence upon the morphological development of the settlements where they are found. Their generic relationship, however, is not always clear, even in the set of six settlements which may have schieved their maximum populations c.1850 and, a priori, may be presumed to have experienced least morphological change, since the early mineteenth century. Examination of the internal structure of nine settlements of the total set under discussion was nonetheless revealing. It showed quite clearly that either the whole settlement, or its component quarters, had grown up around a central tower, or adjacent to a dominant tower.

At this stage in the argument, the origins of isolated towers must be outlined. A few may have been built for coastal defence. Some, particularly in the north, were built as strongholds for powerful individuals and clans. Others, especially in Mesa Mani, were erected for the related

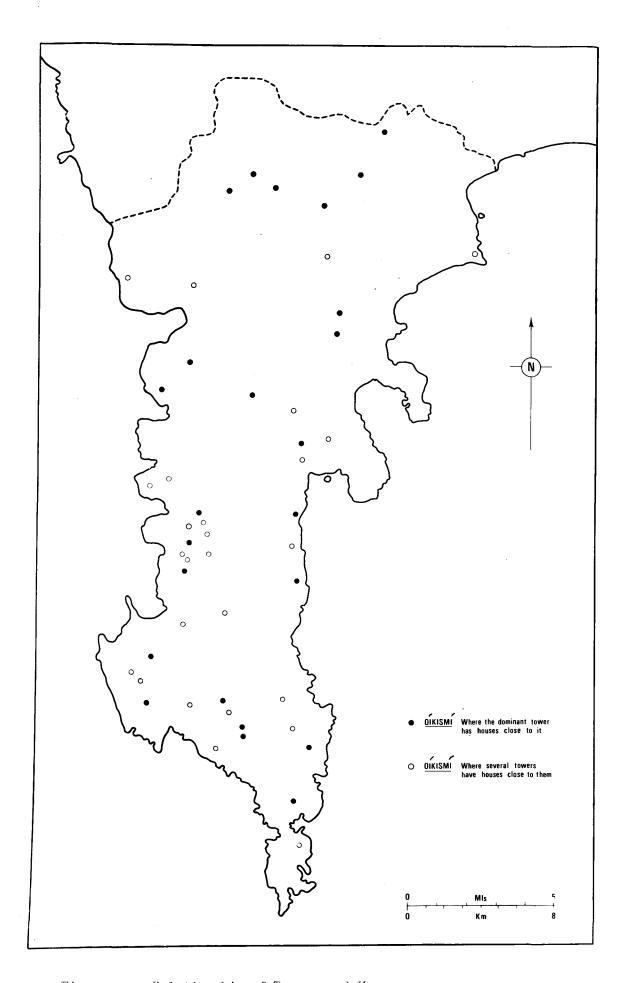


Figure 59: Relationship of Towers and Houses

purposes of defending clan land or blockading hostile settlements, and this was often apparent from their distribution as shown on the Commission's map (Fig. 50). Growth from an isolated tower, built for one or more of these purposes, into a nucleated settlement might have been accomplished in two related ways. The occupying family may have expanded in size by natural increase, unrelieved by emigration. Traditions of clan loyalty and patrilocal residence could mean that additional houses would have to be built near, or around, the original 2010 stronghold. The alternative means of development might be described as crystallisation or accretion. As Lord Carnarvon recognised in the 1830s, the mere fact of a family head deciding to build a tower could be sufficient reason for his kinsmen to gather around him. 12 The natural tendency operative in a clan society would be strengthened if construction threatened the existing power structure of a community, or the territory of another settlement. Crystallization about an isolated tower might also have resulted from the expulsion of a clan from its original home, as a consequence of defeat in war.

Crystallization of settlements around isolated towers may be paralleled by the growth of small, secular settlements around three of the monasteries known from the early mineteenth century. 'Unless these can be regarded as clan property, like the secular churches, the reasons for collecting around a monastery might be slightly different to those for accretion about a tower. Some settlements may have originated in this way between c.1618 and c.1830, but it is difficult to prove.

Causes (Fig. 60)

Possible mechanisms of change at work on settlement patterns between c.1618 and c.1830 are only part of the development process. Causes of change must also be sought. The tangled skein is difficult to unravel, but an obvious thread to start with exists in the form of population change, since population and settlements are so intimately connected.

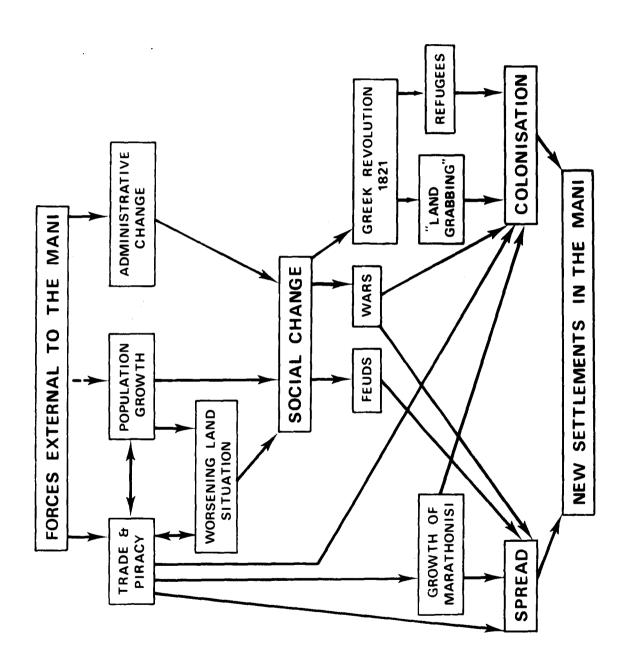


Figure 60: Causes of Changes in Settlement Patterns, c.1618-c.1830

Population (Table 5)

During the period c.1500 - c.1650 population seems to have grown throughout the Mediterranean lands 13 and the Mani might have shared in this. Between c.1618 and c.1700 the population of the study region increased by about 1,000 persons. This would give an annual rate of growth of 0.08 per cent, and would be equivalent to the provision over the period of 5.2 new settlements with populations of 191 people, that is, the average size of settlement in c. 1700. Population increased by about 3,000 people during the period c.1700 to c.1830, an average annual increase of 0.16 per cent. The rate of growth in this period would require the provision of 18.5 new settlements of the same size as the average in c.1830, that is, 162 people. The rates of increase are very low and although some immigration may have occurred. especially during the Venetian Period (1687-1715)15, they seem sufficiently small to have been largely the result of natural increase within the region. Low levels may have been maintained by relatively large scale emigration from Vitylos between 1670 and 1676 and by at least seasonal and short-term emigration from the Makavoulia during the early nineteenth century.

The slowly expanding population may have been accommodated to some extentin two ways. Fatrilocal residence itself would probably lead to the in-filling of spaces still existing within settlements and to some areal expansion. An alternative development may have been the establishment of "twin" settlements of the sort found in several places at the beginning of the nineteenth century and at Siderokastro about 1700. When population expanded still further, the two settlements may have coalesced, as in the case of six of the nine settlements discussed above in connection with towers, and which seem to have begun as two or more small separate entities. 18

At the same time as morphological solutions were being evolved, two other developments were taking place in the study region. The increase in the number of settlements over the period was larger than the number

theoretically required to accommodate the expanding population - perhaps 24 in theory, compared with 68 in actuality. Chi-squared testing of the relationship between the numbers of new settlements found in each of the early nineteenth century taimata and the numbers occurring in the same units c.1618 shows that there is more than a 99 per cent chance that the increases were not proportionate to the base number. In other words. more settlements were founded than we might have reasonably expected. The second development, which becomes apparent over the period, is a decline in the population size of the average settlement. On the basis of available figures, the average settlement contained about 229 persons c.1618. By c.1700 population had fallen to about 191 persons and c.1830 it had dropped to about 162. Decline over a period when the regional population appears to have been increasing seems odd. Taken with the evidence for what appears to be a disproportionate and unexpected increase in the number of settlements, it may be interpreted as indicating that the new settlements founded between the early seventeenth century and the early mineteenth century were very small, and could indeed have begun as single towers.

A third population-related development was also in train during the period, and may contain the key to the whole process of change. This was a probable worsening of the family/land ratio. There are no figures for the cultivated area at either c.1618 or c.1850, but, with reservations, some calculations can be attempted on the basis of 1961 statistics. In 1961 and perhaps around 1830, a total of 134,600 stremata (13,460 hectares) were cultivated. This would give a ratio of 37.2 stremmata per rural family of 4.75 persons in 1961. Using the same sort of calculation with the population figures for the early nineteenth century, the average family then may have possessed some 34.9 stremmata, though if it lived in later Yithion 'eparkhia it might have worked 39.3 stremmata and if it lived in Citilon 'eparkhia it would have possessed 29.2 stremmata. About 1618 the position may have been

better over the entire region, if we assume that the same total amount of cultivated land was in use, though under-enumeration may distort the picture. The average family in the region may have worked as much as 48.3 stremmata, though in later Yithion 'eparkhia, it may have possessed lll.8 stremmata, and in later Oit; lon 'eparkhia only 24.4 stremmata. The crude nature of the calculations needs little emphasis. However, they do suggest very strongly that the general land position deteriorated over the period.

Deterioration in the family/land situation may have had important consequences. In classical formulations, it may be regarded as producing the clan warfare evidenced towards the end of the seventeenth century and more clearly from c.1800. 21 Somewhat paradoxically, the land situation may also have been responsible for the proliferation of settlements. The foundation of daughter settlements could be regarded as an "adaptive mechanism". released to prevent the development of what the ancient Greeks called stasis, a situation destructive of all forms of community life. 22 Specifically, the land situation may have generated settlements in several ways. Clans may have been forced to protect their property by building towers, which became the crystallization points for later settlements. War over land led to the defeat of some clans and their expulsion from an existing settlement. These clans had to establish themselves elsewhere, and probably collected around an existing isolated tower or upon unclaimed territory. Shortage of land in Mesa Mani may have stimulated the recolonisation of the northeastern area, especially since the rate of settlement increase in Malevri tmima, for example, was considerably larger than might have been expected, and must have been at least partly sustained from elsewhere in the study region or beyond it.

Increase in the number of settlements was not the only solution available to the problems of a deteriorating land situation and impending social disaster. It is necessary, therefore, to discover

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why this particular solution appears to have been adopted on such an apparently large scale and whether or not other processes were at work. The timing is also important and must be constantly borne in mind. To answer these questions, the developing socio-economic situation within which the settlements existed must be examined.

Administration (Table 5)

The first point to emerge from an examination of the administrative history of the Mani since Roman times is the long-standing tradition of localism. The region was remote from the varying provincial capitals of the Morea and after c.1500 was often in revolt. Following the Orloff Rebellion, in which the Maniats played an important role, their region was formally, but not completely detached from the Pashalik of the Morea and allowed a degree of local autonomy, 23 such as it had probably not enjoyed since early Byzantine times. Two consequences of localism and semi-autonomy appear important for the settlement history of the study region.

Although the north-eastern corner may have remained a frontier area and a zone of strife" between the Christian Maniats and the Albanian Muslims of the Vardhounokhoria until the Revolution of 1821, no Turkish invasion was attempted through it between c.1776 and 1826. Indeed, after 1715, only one punitive expedition went through the area before Ibrahim Pash's final assault failed at Polyaravos, and that event took place at the end of the serious Orloff Rebellion. Freedom from major invasion and accompanying destruction may have removed one of the obstacles to extensive resettlement of the north-east, though other factors were also at work and will be outlined later.

A second effect of localism and the re-attainment of semi-autonomy may have been to allow the unbridled development of social traits perhaps already present in the study region. In particular, self-government may have allowed powerful men to pursue their economic and dynastic ambitions through local wars. secure in the knowledge that, unless they were mismanaged and affected vital Ottoman interests or involved foreign powers, Turkish intervention would be minimal and come only from the sea. At the same time, clan power may have been able to assert itself in a situation where agonistic relationships were normal and feuds were possibly exacerbated by a worsening land situation. Both developments affected settlements. Powerful men, like Mourtzines and Christea, and important clans, like the Grigoraki, 24 built towers and forts, as well as founded settlements, in the north-eastern area, no doubt from a need to strengthen, extend and defend their power. Isolated towers and possibly whole settlements may have been built in the same area, as well as in the Mesa Mani, in consequence of feuds and possibly to protect land or to provide a refuge in time of defeat.

Further changes resulted from the War of Independence.

The initial sporadic revolts, which gradually coalesced into the war, led to the flight of the Turkish population and the seizure of their land by the rebels. Indeed, such a desired result has been argued as one of the basic reasons why the Greek 'arkhontes launched the war in the first place. The Although Turkish estates were noted elsewhere in Lakonia by the observant Leake and probably formed most of the mulberry plantations still held by the state about 1840, as well as the 3,894 stremmata ceded to the Royal Phalanx between 1835 and 1840, 26 there is no direct evidence for their existence in the study region early in the nineteenth century. Local tradition is firmly against such a possibility, whilst the typical Turkish estate village recognised in northern Greece, the ciftlik, was absent. On the other hand, a

large Greek estate did exist in the Vardhounia valley and belonged to one of the Grigoraki, whose descendents own it today, and Lord Carmarvon noted in 1839 that "a considerable part" of the area near Marathonisi was "national property". 29 Other estates may have existed elsewhere in the valley and in neighbouring lowland tracts. The existence of a Muslim population in the Vardhounokhoria and Turkish official contacts with the Mani through Marathonisi, might suggest that some land must have been owned by Turks - a Turk being a term signifying a Muslim who was not an Albanian. It was certainly a Maniat complaint in the early seventeenth century that some of their land had been confiscated by the Turks. If these suggestions are correct, then it is possible that Turkish property was seized by land-hungry Maniats at an early stage in the War of Independence. Some settlements may have been founded as a result, perhaps growing from the kalyvia of squatters. 30 By contrast, refugee camps created in the vicinity of Marathonisi as a result of the depradations of the Egyptian army in 1825 and 182631 do not seem to have crystallised into permanent settlements.

Society (Table 5)

Several of the arguments for the processes of settlement genesis developed over the previous pages depend upon the character of Maniat society, as it has been revealed from sources clustering about the year 1800 or referring to "traditional", that is eighteenth-nineteenth century conditions. The important features were the role of clans in the socio-political structure of the region, the existence of social stratification, and the presence of an acute form of agon, expressed in vendettas, feuds and wars. 32

Zakythinos believed that these "traditional" features of Maniat society were already apparent by the early fifteenth century,

and other scholars have made similar assumptions.³³ However, hard and reliable evidence is lacking. The hypothesis has usually been supported from a few enigmatic hints in the limited source material, made plausible by arguments of a general kind. Two sets of arguments may be recognised.

The first of these, which may be called the development argument, turns upon the idea that Morean society as a whole became more bellicose during the Middle Ages and that the Mani shared in the general experience. While supporting this line of argument to some extent, Zakythinos also supported a second hypothesis, namely the preservation of primitive social forms in the Mani. Although Morean society in general may have changed during the medieval period, Zakythinos thought that the rugged terrain of the Mani, the exceptionally harsh conditions of life there and the neglect of the region by central government all contributed to the maintainance of primitive habits amongst its population, presumably from antiquity, 34 though he did not say so.

Neither the development nor the preservationist hypothesis can be successfully sustained. Preservationist arguments are particularly open to refutation. Such allegedly primitive characteristics as the clan and the vendetta were weakened by the emergence of the polis and the subsequent domination of the region by Sparta, but they were almost destroyed by the intrusion of Roman power into Greece. In fact, we can follow Bloch in seeing the evolution of feudal forms during the Middle Ages as possible partly because the bonds of kinship, in which the vendetta was important, had become so weak, though they did not disappear completely. Instead, as Bloch also argued apropos of western feudalism, kinship ties recovered their significance when state control over the landholding structure became loosened.

Development arguments look stronger and must be tested more carefully against the available medieval and modern evidence.

Evidence for the nature of Maniat society in the Middle Ages is not particularly good. That for the existence of clans and vendettas comes mainly from the two accounts of Manuel II's visit to Vitylo in 1415 and is not only poor in quality, but also highly suspect. Svidence for a semi-feudal structure in the region, by contrast, is more direct, more reliable and more convincing.

The slight hints about the nature of society contained in generally more trustworthy sources from the period c.1500 to c.1800 support the idea of social change. They indicate, nowever, that the crucial period was much later than is often imagined. Equivocal evidence for the existence of clans in the Mani first appeared in a reliable source at the beginning of the seventeenth century, but increased in quality and certainty thereafter. Stratification also may be traced back more definitely to the early seventeenth century. 9 Vendettas are not evidenced until 170140 and then not very certainly. The impression gained is that the "traditional" aspects of Maniat society developed from about 1600 onwards. This could be illusory, since the quality and quantity of documentation also increases towards the early nineteenth century. However, a comparatively late date for the transformation from a semi-feudal society to a clan society, with all that the change means, is more consistent with the evidence than the alternatives of either a change complete by about 1600 and subsequent stagnation, or the preservation of social mores from very ancient times.

Transformation may have occurred, as Fermor and his major source, Dimitrakos-Mesisklis, have argued, because of the settling of various alien groups within an already inhabited region, especially after 1500. 41 Immigration, however, is unlikely to have been sufficiently

large scale for this to be the real explanation. An alternative explanation may be constructed which requires little in the way of injected stimulus. For as long as records exist, the relationships between Greek families have been agonistic. In conditions where population was increasing and the family/land ratio worsening, kinship bonds are likely to have tightened their hold and extended their range. Clans may have developed over several generations by the branching off of families which needed to retain relationships with each other for mutual support. Solidarity was required by the socio-economic situation, with the result that the friction generated in normal relationships between individuals increasingly must have involved groups and tended to escalate into feuds. Stratification would develop at the same time because of the inequalities of family size and cultivable land, perhaps especially when the hold of a foreign aristocracy had been removed. However, where equal inheritance was the norm, patrician clans could only maintain status by acquiring new territory or new revenues, perhaps every second or third generation. 43 This need could have formed a powerful additional force generating feuds and transforming them into local wars.

Vendettas and feuds are essentially judicial processes, suited to a context where neither the state nor the local community can sustain their authority. Whatever the situation in medieval times, there is no doubt that the severe crisis which afflicted the Ottoman Empire at the end of the sixteenth century resulted in a deterioration in the quality of administration at all levels and the exacerbation of centrifugal tendencies in the Empire's different regions. Local leadership and local systems of security and justice emerged to fill the developing vacuum, as ecclesiastical courts had earlier taken over secular jurisdiction because of the failure of the state courts to function adequately. The Mani probably shared in

these developments, but the granting of semi-autonomy in the 1770s allowed extreme adaptations to grow, producing in a relatively short time characteristics which are often thought of as "traditional" to the region.

Sconomy (Table 5)

The narrative quality and political or antiquarian concerns of many of the sources available for this study have meant that economic information is generally poor. Nonetheless, the material does show that the local economy retained two basic characteristics over a long period of time. It was underdeveloped and it was subservient to the needs of "imperialist" powers. The economic base lay in agriculture (Fig. 61), even though crops were grown in marginal and difficult conditions. There was also some export trade - in the Roman period, rare stone, but by about 1800 largely natural and agricultural products. Much of the trade was with adjacent places in the central Mediterranean region, tut from medieval times the region was linked firmly into a trading pattern dominated by Venice. However, final release from the stultifying effects of Venetian colonial policy, with the re-establishment of Turkish power in the region after 1715, may have proved partly responsible for an expansion of trade during the course of the eighteenth century. Growth was assisted by the rising demands of western Burope for industrial raw materials which the Mani was able to help satisfy (Table 18).

Table 18: Maniat and Morean Exports, 1794-9545

Commodity	Exported from Morea (including Máni)	Exported by the M áni	Maniat Exports as a percentage of Morean Total
Olive Oil	14 Cargoes	10 Cargoes	71.4
Valonia	15 Cargoes	8 Cargoes	53•3
Hides	10,000	3 ,0 00	30.0
Cotton Yarn	8 cargoes	2 Cargoes	25.0

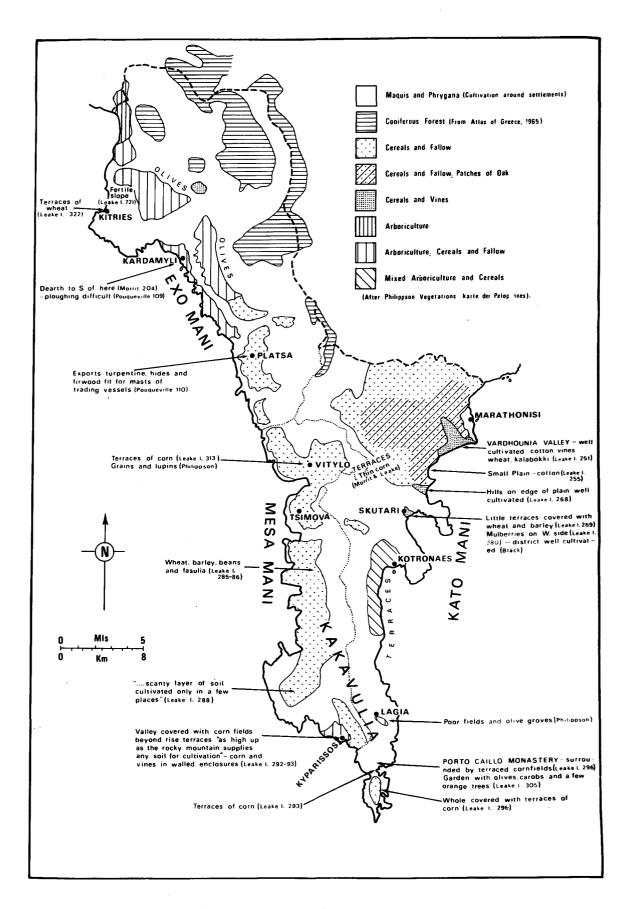


Figure 61: Maniat Economy, c.1800-30

Growth may have affected the various districts differently. The demand for valonia, much of which was shipped to Britain, may have been instrumental in the resettling of Malevri tmima where scattered oak trees still survive, and partly responsible for the growth of a port near the best available roadstead, in the vicinity of ancient Cythium. Marathonisi, however, acted as the outlet not only for its immediate hinterland but also for Mistra , in the vicinity of which 42.9 per cent of the natural silk exported from the Morea in 1794-95 was produced. 47 The expanding trade of Marathonisi probably helped to concentrate population into the growing settlement. Although little cultivation seems to have been carried on in the vicinity of the town itself and food was imported from Candia and Cerigo 18 supplies must increasingly have been brought in from at least the neighbouring valleys and plains, as they are today. A market for food, as well as raw materials, might further stimulate the reclamation of land in the north-east and provide a support for colonising settlements. Reclamation itself may have been made easier during the course of the eighteenth century by the end of the post-Roman phase of aggradation and the resumption of down-cutting. 49 The reclaimed land, too, might have been of better quality than that abandoned centuries before for, as Vita-Finzi has pointed out for similar areas, slopes would probably have become gentler, whilst soils would have had a more loamy quality; land would certainly have been much easier to drain. 50 These developments may be summarised as a reversal of the situation existing between the mid-sixth and mid-thirteenth centuries.

Districts with poorer resources were probably affected rather less. The expansion of trade might help to explain the slight increase in the proportion of settlements found within 0.5 kilometres of the coast between the early seventeenth century and the early nineteenth century. At the same time, the increasing semand for the products of the phrygana, such as valonia, gall-muts and wax, together

In the north-east, colonisation from mountain-fringe villages and to some extent from the Vardhounokhoria may have predominated, but there might also have been some colonisation from further south, especially from the congested area of the Kakavoulia. From a standpoint over 140 years later, the reoccupation of the north-east may be viewed as a reassertion of the attractions of this fertile and well-watered area, compared with other parts of the study region. Basic to this were probably the improvement of the valleys and plains by renewed down-cutting, the absence of invasion and the growth of Marathonisi as an export port. During the eighteenth century them, the catastrophe graph moved in the opposite direction to the path followed between c.A.D.174 and c.1618.

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References

- J. N. Andromedas, <u>The Inner Maniat Community Type: A Study of the Local Community's Changing Articulation with Society</u>, (Columbia Ph.D. Thesis, 1962; University Microfilms, Ann Arbor, 1967), pp.11-15, 58.
- 2. W.M.Leake, Travels in the Morea, (London, 1830), Vol. 1, pp.234-35, 252-54, 282, 312, 316.
- 3. F. Carabini and C. Vafa, <u>Quelques Faits historiques et veriters</u>

 concernans la <u>Province de Maina à dater du 1769</u>. (Athens, 1859),

 pp.5-6; Leake, <u>op.cit.</u>, p.253; J.B.S.Morritt, Account of a Journey

 through the District of Maina, in the Morea, in R.Walpole (ed.),

 Memories Relating to European and Asiatic Turkey, (2nd ed., London,

 1818), p.57; N. Νύβκος, <u>Μεγκλο βουνὸ βρίσκεται</u>

 'επάνω στο Μορία..., Line 51.
- 4. Morritt, op.cit., p.57; D. et N. Stephanopoli, <u>Voyage de Dimo et Nicolo stephanopoli en Grèce pendant les années V et VI</u> (1797 et 1798), (Paris, 1800), Vol. 1. p.226.
- 5. Carabini and Vafa, op.cit., p.3; Τ. Θ. Γριτο όπουλου, Τὰ Ορλιυθίκα,
 (Athens 1967) p.120.
- 6. Leake, op.cit. p.263.
- 7. A. Pacifico, Breve Descrizzione Corografica del Peloponneso o'

 Morea (Venice, 1700), p.69; I.E. Νουχάκη, Έλληνικη Χωρογραφία,

 (Athens, 1901) p.762.
- 8. Leake, op.cit., pp.313-14, 319-20; C.G.Pitcairn Jones (ed.),

 Piracy in the Levant. 1827-28. Selected from the Papers of Admiral

 Sir Edward Codrington, Publications of the Navy Records Society 72,

 (London, 1934) pp.47-82.
- 9. NouXák 7, op.cit., pp.754-55, 757-64, 770-71; F. Strong, Greece
 as a Kingdom, or, A Statistical Description of that Country from the
 Arrival of King Otho, in 1833, down to the Present Time, (London, 1842),
 pp.70-84

- 10. J. M. Wagsteff, House Types as an Index in Settlement Study: A

 Case Study from Greece, <u>Transactions of the Institute of British</u>

 <u>Geographers</u>, 37 (1965), pp.69-75.
- 11. i. Argilia: 2 parts, each dominated by a tower;
 - ii. Ay. Kiriaki : consists of a clan house and tower only;
 - iii. <u>Karvela</u>: 2 parts, each dominated by a tower, though a third tower also found;
 - iv. Konakia; 2 parts, each dominated by a tower:
 - v. Koutoumou (old settlement) : 2 parts, each with a tower;
 - vi. <u>Mavrovouni</u>: settlement grouped on hillside near ruined fort of Melissi; several towers;
 - vii. Neokhori : 2 parts, each dominated by a tower;
 - viii. <u>Pilala</u>: large clan house (or fort) on edge of settlement; ix. <u>Skyphianika</u>: 3 parts, each containing a tower.
- 12. Lord Carnarvoh, Reminiscences of Athens and Morea. (London, 1869), p.144.
- 13. F. Braudel, La Méditerranée et le Monde méditerranéen à l'Epoque de Philippe II, (2nd ed., Paris, 1966), pp.368-69.
- source, Document C, and population data (families and souls) of c.1702 published as an appendix by L. von Ranke, Die Venezianer in Morea 1685-1715, <u>Mistorische-politische Zeitschrift</u>, 2 (1833-36), p.502. The origin of the latter is commented on by P. Topping in W.A.McDonald and G.R.Rapp (eds.), <u>The Minnesota Messenia Expedition</u>:

 Reconstructing a Bronze Age Environment, (Minneapolis, 1972), p. 78.
- 15. The encouragement of immigration was official Venetian policy, Θ. Δ. Κριμπα,

 'Η Ένετοκρατουμένη Πελοπούνηση, 1685-1715, Πελοποννήσιακα, 1(4956), 10.316-46; 2(1957), 247-55;

 Von Ranke, op.cit., pp.405-502.

- 16. A synthesised but uncritical account of the late seventeenth century emigrations is provided by P.L. Fermor, Mani: Travels in the Southern Peloponnese, (London, 1958), pp.99-104. The migration of one group, the Stephanopoli, to Corsica has generated a large literature but one of the earliest accounts is H.F. Tozer, Vitylo and Cargese, Journal of Hellenic Studies, 3 (1881), pp.354-60.

 A contemporary reference to the migration is found in J. Spon, Vovage d'Italia, de Dalmatie, de Grèce, et au Levant, fait en anness 1675 et 1676, (2nd. ed., Amsterdam, 1679), Vol.1, pp.121-23.

 Nineteenth century emigration is referred to by W. Gell Marrative of a Journey in the Morea, (London, 1823), pp.268, 301 and in Σ. Β. Κουηεκ, Τοτορίκαι πηκί δία την Της μονίαν τη, Μάνη (1774-1821), πελοποννήσιακα, pp.60-136, Letters 1, 3, 9 and 10.
- 17. Pacifico, op.cit.
- 18. See Note 10 above.
- 19. B. Kayser and K. Thompson, Economic and Social Atlas of Greece, (Athens, 1964), 301.
- 20. The bases for the calculation are:
 - a. the population in 1961 minus the population of Yithion demos (to eliminate the urban component);
 - b. family size suggested by the <u>Commission Scientifique de Morée</u>.

 The figure of 4.75 is probably too high for 1961 since family size in Greece has declined (National Statistical Service of Greece, <u>Statistical Yearbook of Greece</u>, <u>1969</u>, Athens 1969, Table 2.9 p.23).
- 21. A.P.Vayda, Hypotheses about the Function of War, in M. Fried,
 M. Harris and R. Murphy, (eds.), <u>War: The Anthropology of Conflict</u>

 and Aggression. American Museum of Natural History, (New York, 1967)

 pp.85-91.
- 22. 1. Eibl-Eibesfeldt, Ethology. The Biology of Behaviour, (New York, 1970), p.341; M.L.Finley, Early Greece: The Bronze and Archaic Ages (London, 1970),

- 23. Kouyeas, op. cit.
- 24. Their activities are referred to in documents published by Kouyeks, op.cit.
- 25. C.M.Woodhouse, The Greek War of Independence: Its Historical Setting, (London, 1952), pp.35-36.
- 26. Strong, op.cit., pp.220, 228.
- 27. Interview with Mr. T. Tzortzakis, a local Maniat historian and a member of the Grigoraki clan.
- 28. Leake, op.cit., pp.243-44. He used the transliteration tifftlik.
- 29. Leake, op.cit., p.266; Carnarvon, op.cit., p.180.
- 30. Permission was refused to consult the necessary documents held by the Public Lands Directorate, Ministry of Finance.
- 31. A.B. Bariakakov, O Impoajn Evartior Tys Mary,

 (Athens, 1961); W. Black, Narrative of Cruises in the Mediterranean

 in H.M.S. Eurvalus and Chanticleer during the Greek War of Independence,

 1822-26, (Edinburgh, 1900), pp.253-54; T. Gordan, History of the Greek

 Revolution, (London, 1832), Vol.2, p.318; C. Swan, Journal of a Voyage

 up the Mediterranean, (London, 1826), Vol.2, pp.234-35.
- 32. The best study to date is Andromedas, <u>op.cit.</u> Some information on Maniat society is also given in R:Rodd, <u>The Customs and Lore of Modern Greece</u>, (London, 1892), pp.67-73. Details may be gleaned from travel accounts, especially those of Carnarvon, Leake and Morritt.
- 33. W. Miller, Latins in the Levant: A History of Frankish Greece
 (1204-1566). (Cambridge, 1908), p.392; D.A.Zakythinos, Le Despotat
 Grèc de Morée. Vol.2, (Athens, 1953), pp. 11-14, 210-11.
- Zakythinos, op.cit., pp.210-11. Supported by A. Mirambel, Blood

 Vengeance (Maina) in Southern Greece and among the Slavs, <u>Byzantion</u>.

 16 (1942-43), pp.381-92. A similar hypothesis has been used to explain allegedly primitive social forms elsewhere in the Balkans, see for example, G.W.Hoffman, The Balkans in Transition, (Princeton, 1963), pp.52-53 and M.A.Lefèvre, La Zadruga, <u>Annales de Geografinie</u>, 39(1930), pp.316-20

- 35. H.T. Rose, Primitive Culture in Greece, (London, 1925), pp.213-14.
- 36. N.Bloch, Feudal Society, trans. by L.A.Manyon, (2nd ed. London, 1962), pp.123-42, 224-27.
- Tαλαιολόγεια καὶ Πελοπονησιακά, vol.3, (Athens, 1926), pp.239-42. Priest-monk Isidore, Letter to Manuel II published in W. Regel, Analecta Byzantino-russica. (St. Petersburg, 1891), pp.65-66.
- Apparent from a wide selection of sources including Longnon and Topping, Document I, pp.19-29; Lurier; Sabbadini; Sathas, Vol.5, Vol.6, pp.148-88; Tafel and Thomas, Vol.3, Document 370, pp.159-281; Thomas and Predelli, Documents 72-88; Topping. Full citations may be found in the Bibliography under "Sources for the Middle Ages.1. Primary Sources".
- 39. Nevers' sources Letters III and IV. Documents published by Σ. Β. Κουγέως,

 Αναβορα των Βοιτυλιωτών πρός την Ένετικην Δημοκρατίαν

 (7'Απριλίου, 1690), πελοπονησιακα, 2(1957), pp. 426-30 and κ.Δ. Μερτηίου,

 ποτέ καὶ πως 'επευευ 'η Μάνη είς Χείρως των Τούρκων το 1715,

 Πελοπονησιακα, 3-4 (1958-54), pp. 276-87.
- 40. Report of Provveditore Generale Francesco Grimani. Δελτίον της Το τορικής καὶ Έρνολογικής Έταιρείας της Έλλαδος, 5(1900), pp.448-532.
 - The picture is supported by some remarks made by his predecessor, Giacomo Corner, Δελτίον..., ibid, 2 (1885-89), pp.282-317.
- 41. A.B. Agustokkov Meriokky, O' Nukkirus (Athens, 1949) p.71; Fermor, op.cit., pp.47. 87. Nevers' sources, Documents D and E, report that some of the early seventeenth century Maniats claimed to be descended from refugees who had fled to the region after the Turkish conquest of the Morea, c.1460-1500. A document of 1573 reports a subsequent influx of refugees from Kithira, V. Lamansky, Secrets d'Etat de Venise.

 Documents, etraits, notices et études. (St. Petersburg, 1884), p.607.

- 42. E. Friedl, <u>Vasilika: A Village in Modern Greece</u>, (New York, 1962), pp.75-91. Numerous instances can be given from ancient literature, but illustrative in different ways are Homer, <u>The Iliad</u> and Plato, <u>The Dialogues</u>
- 43. C.A.O. van Nieuwenhuiijze, The Near Eastern Village: A Profile, Middle East Journal, 16 (1962), pp.295-308.
- 44. Mirambel, op.cit.; J. Schneider, Frimitive Warfare: A Methodological Note, American Sociological Review, 15 (1950), pp.727-77, reprinted in L. Bramson and G.W.Goethals (eds.) <u>Mar: Studies from Psychology. Sociology and Anthropology</u>, (New York and London, 1964), pp.275-83.
- 45. X. Scrofani, <u>Vovege en Grèce de Mavier Scrofani. Sicilien. fait en 1794-1795</u>, trans. J.P.C. Branvillain, (Paris and Strasbourg, 1801), Table 10a.
- 46. Leake, op.cit., p.240; F.C.H.L. Pouqueville, <u>Travels in the Morea</u>, trans. Anne Plumetre, (London, 1813), Appendix III.
- 47. Scrofani, op.cit., which reports that 35,000 okes of natural silk were exported from the Morea, of which 15,000 okes came from Mistra.
- 48. J. Bransen, Travels in Egypt. Syria. The Morea. Greece. Italy. etc., (London, 1820), Vol.2, p.31.
- 49. The only date yet available for the resumption of down-cutting in the post-Roman period appears to be the "sixteenth century" for Etruria, S.Judson, Erosion and Deposition of Italian Stream Valleys during Historic Time, Science, 140 (1963), pp.848-49, quoted by C. Vita-Finzi, The Mediterranean Valleys: Geological Changes in Historical Times. (Cambridge, 1969), p.102.
- 50. Vita-Finzi, ibid., p.119.
- 51. Products mentioned by Leake, op.cit., p.242 and Pouqueville, op.cit.,
 Appendix III.

52. Case based on documents published by Kovyiks, 'Lotolika' Mykai...,
op.cit. and Beaufort, Choiseul-Gouffrier and Gell. The general
context is provided by G. Finlay, A History of Greece from its

Conquest by the Romans to the Present Time. B.C.146 to A.D.1864.
edited by H.F.Tozer, Vol.5, Greece under Othoman and Venetian

Domination, A.D.1453-1821, (Oxford, 1877), pp.265-66, 272-73;

H.A.Ormerod, Piracy in the Ancient World: An Essay in Mediterranean

History. (Liverpool, 1924), pp.26-28; N. Svoronos, Le Commerce de
Salonique au XVIIIe Siècle, (Paris, 1956), pp.128-33.

CHAPTER 8: MANIAT SETTLEMENTS AND THE STUDY OF GREEK RURAL SETTLEMENTS

Further Work on the Mani

The three preceding chapters have established the broad trends of development in settlement patterns in the Mani over a very long span of time and isolated some of the mechanisms involved. Attempts at causal explanation, however, have been confined largely to the formulation of a number of hypotheses. Although efforts have been made to weld these into a coherent whole, especially through the emphasis placed upon society and economy, as well as the physical determinants of livability, some of the hypotheses must be regarded as possible fragments of a wider whole, involving the socio-economic fortunes of Greece and the Mediterranean world.

Advance must now depend upon removing errors in the basic settlement data, and in tracing the development of patterns, or even the history of individual settlements, in finer detail than has been possible with the scale employed here. Special attention should clearly be given to the chronology of development and to the connectivity between parent and daughter settlements. Most scope lies in the period from the seventeenth century onwards. Locally produced documents of the period, such as those contained in the Grigoraki archives, can be expected to produce some information, when they become available to researchers. Searches must also be conducted in the Venetian archives because of the Republic's long and intimate connection with the region, whilst the Turkish archives are virtually untouched. A great deal might also be learnt from a sytematic collection of local traditions about settlement history and the origins of the founding fathers, before the oral sources disappear altogether. Sanders originally drew attention to the potentialities for such a study, whilst some fragmentary success has been achieved by the present writer in a few villages in northern Mani (p. 190) and the neighbouring 'Elos Plain. In addition,

No.

excavation of known prehistoric sites in the valley and plain areas may be expected to yield important, though probably mundane, information about the structure and economies of early settlements. A further and detailed archaeological survey, especially in the more difficult parts of the region, may produce a few more sites. Some attention must finally be given to physical conditions, especially to the evolution of valleys, such as the Vardhounia, which have been so important, negatively and positively, in settlement history.

The Study of Greek Rural Settlements

At this point in the study the Mani may appear to be an exceptional region. Not only is it a long, generally arid peninsula, but it also appears to have been less economically isolated than some landlocked mountain regions of Greece, and to have contained a "traditional" society in which traits found elsewhere in the country were perhaps taken to rare extremes. The drawing of conclusions applicable to the rest of Greece, therefore, might seem unwise. This is not the case. As stated at the beginning (pp. 6-7), the region has been widely supposed to have shared a retreat function with other districts, and it was the purpose of this study to examine the hypothesis. Moreover, the mountainous and peninsular character of the region is certainly repeated elsewhere in the country, and the culture has been in many respects extremely creek.

Systematic historical investigation of rural settlements does not appear to have been attempted before, and most recent attention has been diverted elsewhere. Many of the shortcomings of this study, especially in methodology, are perhaps characteristic of a pioneering work in which a reasonably secure factual base had to be laboriously established before transposition and geographical analysis could be attempted. Nonetheless, the study has indicated the sort of results which might be obtained in better documented regions of Greece. It is also possible to offer a number of conclusions, which might be tested as hypotheses

elsewhere or, at least, might provide a stimulus to additional work.

The first conclusion to be drawn is that the retreat function of the Mani has not been clearly demonstrated. Although settlement numbers increased over time, whilst patterns altered, the observed changes cannot be attributed to the immigration of large numbers of refugees to the region. Nor can the few refugees who found their way to the Nami be regarded as providing a necessary catalyst for change. Change is more adequately explained by indigenous mechanisms. The whole concept of a retreat of settlement might, therefore, be cast in doubt. Careful examination of other alleged retreat areas is clearly called for.

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Nonetheless, the abendonment of the valley and plain land of the north-eastern corner between the second and the seventeenth centuries might be interpreted as constituting a local retreat phase. The security considerations usually offered in explanation of such a process may apply here, but alternative explanations are more convincing. In particular, the effects of widespread erosion and aggradation in the Roman period and later seem of basic importance; but they must be tested elsewhere. Whatever the ultimate explanation of the radical changes in settlement patterns, it is clear that they took place in the Middle Ages, probably between the sixth and the thirteenth centuries. They were not the result of Turkish raids, or of the Turkish occupation, or even of the political chaos which preceded the Turkish triumph in the balkans. Re-examination of such accepted and facile explanations is required.

Similarly, it is clear that in the Mani the reoccupation of abandoned valley and plain land began in the eighteenth century and not, as is so often implied, after the War of Independence. The War may have simply quickened an established trend. If the timing of the recolonisation phase can be pushed tack for the Mani, then a pre-

Independence origin may be suggested for other districts of the Morea, where plains are more extensive and where the economic potential was so much greater. It is not without significance that a similar comparatively early trend may be seen in the neighbouring *Elos Plain. A crucial factor in reoccupation, however, must be the resumption of down-cutting, facilitating improved natural drainage, and making available extremely good arable land. The timing of this must be established. Reoccupation may have been preceded by the general upsurge of the Greek economy and the increase of population which can be established for the Second Turkish Period (1715-1821). Removal of the Turkish yoke may not have been so important as has sometimes been suggested.

Blouet has recently challenged the widely accepted view that the concentration of population in comparatively large settlements in the islands and coastal districts of the Mediterranean region was a consequence of defence needs in a situation of flourishing piracy. Re-examination of the same explanatory hypothesis apropos of deserted coastlines and inland patterns of settlement is also called for. The Maniat experience has shown that alternative and more basic explanations are more plausible than the piratical threat. For instance, the influence of a cliffed coast, the long sea distances involved in coastal movement around a peningula and the poor development of trade were important in the Mani. It should also be remembered that massive slave raids, such as those carried out by the Earbarossa brothers, were confined to a particular period of time and, even then, were rather exceptional. Coastal raids were made and captives were taken, but not all areas were equally exposed to the danger, nor was retreat from the coast the only possible response to the threat.

Revision of accepted ideas is similarly called for in the field of site choice. The occupation of elevated sites has often been attributed in Greece, as in the Mediterranean region generally, to defence

needs. The possibility cannot be entirely ruled out for the Mani, but the types of site chosen for occupation and their elevation has more to do with the type of terrain available than anything else, even where site choice was a deliberate act, as seems to be the case. Classic explanations of settlement siting have assumed the deterministic influence of water supply. Again, however, the study of Maniat settlements shows that the influence was not necessarily as great as earlier workers supposed, and that, if it was important at all, could have operated in the direction of a dispersed rather than an agglomerated settlement pattern.

Finally, the historical study of Maniat settlements has demonstrated that simulation models developed in Sweden and the United States are probably inapplicable in southern Greece. The data are so inaccurate in detail that sophisticated statistical manipulation of the required type would be largely futile, even for fairly recent periods. At the same time, the inequalities of the physical environment suggests that the patterns of settlement and the random processes revealed by the North American and Swedish work, are unlikely to occur in southern Greece, where clustering in the more favoured areas is probable. Even more important, Maniat socio-cultural experiences, whilst having much in common with the rest of Greece, have been vastly different from those of Sweden or the United States. As Grossman recently pointed out, the currently available models are probably inappropriate outside the particular cultural framework for which they were devised. In any case, model builders themselves admit that their constructs are descriptive, rather than causal.9

A different model must be formulated for Greece. This must fit a society in which kinship and agonistic relationships have been of long-standing importance. It should also take account of a distinctive settlement history. In the Mani, and probably in the rest of Greece, hudson's ecological mechanisms of colonisation, spread, and competition

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have not operated in the strict sequence envisaged, though their presence at different times is clear. Hudson conceded that two of the mechanisms might work simultaneously in the same region, but he did not apparently visualise the oscillations which have been seen in the Mani. The north-eastern area of that region experienced a phase of colonisation, followed by limited spread, but these were succeeded by phases of abandonment, desertion, and then recolonisation. A model based upon catastrophe theory was advanced in Chapter 6 as a simulation of the mechanism involved in the marked discontinuity which study of Meriat settlement history has revealed. The same model may be used to simulate the changes before, and after the break, as well as to indicate the essential continuity between two patterns. Catastrophe theory should be applicable to settlement studies in Greece and beyond. It has the great merit of uniting effects, mechanisms and causes in a single, logical, explanatory structure.

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References

- 1. I. T. Sanders, Rainbow in the Rock: The People of Rural Greece,

 (Cambridge, Mass, 1962), p.42; J.M.Wagstaff, Rural Settlement in the

 Helos Plain, Lakonia, Greece, Final Report (to NATO), (unpublished manuscript 1967), pp.81-87.
- 2. J.M.Wagstaff, The Study of Greek Rural Settlements: A Review of the Literature, Erdkunde, 23 (1969), pp.306-17
- 3. J.M. Wagstaff, Rural Settlements in the Helos Plain. op.cit., pp.80-89.
- 4. For example, A. Beuermann, Kalyvien-dőrfer im Peloponnes,

 Ergebnisse unde Probleme moderner geographische Forshung.

 Hans Nortensen zu seinem 60. Geburtstag. (Bremen, 1954), pp.229-38.
- 5. W.Blouet, Rural Settlement in Malta, Geography, 56 (1971), pp.112-18
- 6. P. Earle, Corsairs of Malta and Barbary, (London, 1970).
- 7. The general point made in A. Demangeon, La géographie le l'habitat rural, Annales de Géographie, 36 (1927), pp.1-23; W.G.Bast,

 An Histórical Geography of Europe (4th ed., London, 1956),
 p.95; A. Siegfried, The Mediterranean, (2nd impression, London, 1949),
 p.113. It is given Greek reference in Naval Intelligence Livision,
 Geographical Handbook Series, Greece, vol.2, (London, 1944), p.41;
 A.G.Ogilvie, Physiography and Settlements in Southern Macedonia,
 Geographical Review, 11 (1921), pp.172-87; H.A.Ormerod, Piracy in
 the Ancient World: An Essay in Mediterranean History (Liverpool, 1924).
- 8. D. Grossman, Do We Have a Theory for Settlement Geography?

 Professional Geographer, 23 (1971), pp.197-203.
- 9: D.W.Harvey, Models of the Evolution of Spatial Patterns in Human Geography, in R.J.Chorley and P. Haggett, (eds.), Models in Geography, (London, 1967), pp.549-608; C. Olsson, Complementary Models: A Study of Colonisation Maps, Geografiska Annaler, 50B (1968), pp.115-32.
- 10. J.C.Hudson, A Location T heory of Rural Settlement, <u>Annals of the Association of American Geographers</u>, 59 (1969) pp.365-81



APPENDICES

- I. Name Correspondence from Maps Published 1686-1717
- II. Name Correspondence from Maps Published
 1569-c.1630
- III. Identifications of Settlement Names in South-Central Peloponnisos, c.1618.
- IV. Site Categories
- V. Settlements and Fortresses Located in the Study Region and Mentioned in Medieval

 Documents The Sources for Table 9.

APPENDIX I: NAME CORRESPONDENCE FROM MAPS PUBLISHED 1686-1717

VAN KEULEN 1717 (3)		Aquia	Bordogna								
HOPMANO 1715? (2)	Agamico		Bordogna	Brasa	Brescla	Brodegní		Calbares + Camares		Cernisca	Chielefa
SANSON 1692	Agamice		Bordogna	Braza	2 Ke Ka	Brodegni				Cennfsca	Chielefa
VAIK 16907 (1)	Access to		Bordogna/ Thurfum	6 2 2 2	Brexa/ Pethnos	arodegn.		Calbares + Camares/ Taenarum			Chielefa
VISSCHER 1690			Bordogna		Brexa		Caenopolis				
RANDOL <i>PH</i> 1686?									Cardanila		Klfala
DE FEE 1686				Braza	,	Brodegní	Caenopolis + Canares				Chelle
No. of Names	gend	2	•	4	'n	O		හ	0	2	

VAN KEULEN 1717 (3)	Chlores		Colochina		Corolu									
номмано 17157 (2)	Chiores/Abea	Chirota	Colochina		Crostu		Durio	Elehero	Gadepoga	Germen		Mippole	Istechia	
SANSON 1692	Chlores		Forto de Colochina	Colocythia	Croslu	Cumastra/Helds		Elephero		Germen1a/ Germen		Hippola	Istechia/ Leuctra	1000
VAIK 16907 (1)	ann ann an t-ò-bhainn an		Colochina		Crosta				Gadaboga			Mippole	Istechia	
VISSCHER 1690	Chlores	Corsta	Colochina		Croslu	Cumastra			Cadeboga		Cytium	Hippole	Istechia	Las
RANDOLPH 1656 ?	?Cheteri		Colochina			Helos								
DE FER 1686	Chiores		Colochina						Gadepoga	Cermen			Istechia	
No. of Names	12	13	14	ង	91	17	82	61	20	21	22	23	24	22

								and in the control of		:			
VAN KEULEN 1717 (3)		ţ			Maina	Mains, Castri di		Pachana	Paghane		Passava		
HOMMANO 17157 (2)	Zena		Loyistulo	Maganea	Maina/Leuctrum	Maina, Castro	0et110	Pachana		Palaeopoli/ Gythium	Passava	Perrhichina	Petrina
SANSON 1692			Lovistota	Maganeo	Maina/Messe		Oct110/7t110	Paghane	Pagama/Pago di Cadepalon	Paleopolí/ Gythlum	Passava		
7777 70690 (1)			Loristate	FOLKS OF	Vaina/ Leuctrum	Mains, Gesti &	278			Palacopoli/ Gythium	SA CONTRACTOR OF SA CON	Perrichine	Petrina
VISSCHER 1690		Lago	Lovistolo		Maine		Utio	Paghana				Perhichina	Petrina
1686 ?					Maina				Pagena		?Pasucca		
DE FER 1686				OB THE STREET	Maine		9 84.10			Paleopolí	Passava		
No. of Names	26	72	28	52	30	33	32	88	z	S	36	5	38

V AN KEULEN 1717 (3)						Scopia/Teuthrone	Porto Side					
HOMMANO 17157 (2)		Pilo		Prestean/ Thalama	Prignicos/ Biandina	Scopia	Side			Vath1/Las	Vasolup	Virobo
SANSON 1692			Porto Misitra	Prestea		Scopia	Side	Teuthronia/ Teuthrone	Trinassus	Varhí	Vasolup	
VAIK 16907 (1)		Pilo		Prestean/ Thalame	Prignicos/ Biandina	Scopia/ Teuthrone				Vathi/Las	Vasolup	Virob
VISSCHER 1690	Pharís Laconica	Pilo		Prestea		Scopia		Teuthrone			Vasolup	Virob
RANDOLPH 1686 ?												
DE FER 1686				Prestea		Scopia	Side		And the second s	Varhi		
No. of Names	39	40	41	42	43	44	45	46	47	48	67	50

VAN KEULEN 1717 (3)	Vitulo			
HOMMANO 1715 ? (2)	Vitulo/Bityla			
SANSON 1692	Vitulo	Yakaria		Zeleniza
VALK 169 0? (1)	Vitulo/ Bityla	y with strain		Zeleniza
VISSCHER 1690	,			
RANDOL <i>P</i> H 1686 ?	Vitulo	Yakaria	Zarnata	
DE FER 1686	Vitulo			
No. of Names	51	52	53	54

* Vathi/Las indicates identification with an ancient settlement made by the cartographer.

- De Fer, La Morée et les Isles de Zante, Cefalonie, Ste. Maure,

 Cerigo ... (Paris, 1686).
- J.B. Homanno, Peloponnesus hodie Moreae Regnum ... (Paris, 1707).
- J. van Keulen, <u>Nieuwe Pascaard van t Tweede Gedeelte der</u>

 <u>Middelansch Zee, Tusschen t'I. Malta en Alexandretta;</u>

 <u>Paskaart vande Zee-Kusten van Cilicia, Calabria, Graetia</u>

 <u>en Morea; Archipelagusche Eylanden, (Nieuwnburg, 1717).</u>
- B. Randolph, Mores, olim Peloponnesus, (London, ? 1686).
- Sanson, <u>La Morée et les Isles de Zante, Céfalonie, Ste. Maure,</u>

 <u>Cerigo ...</u> (Paris, 1692).
- G. and L. Valk, Regnum Morae accuratissime divisum in provincias

 ... unà cum insulis Cephalonia, Zacyntho, Cythera, Aegina et

 Sidera, (Amsterdam, ? 1690).
- N. Visscher, Peloponnesus, hodie Morea ... (Amsterdam, 1690).
- 1. Gerard Val(c)k; 1650/51-1720; map engraver and publisher in Amsterdam (Bagrow, p. 276).
- 2. J.B. Homanno: 1663-1724; cartographer working in Nuremburg.
- Gerard van Keulen: fl. 1704-26; member of family firm of cartographers founded by his father, J. van Keulen (fl. 1678-96) (Bagrow, p. 254).

APPENDIX II: NAME CORRESPONDENCE FROM MAPS FUBLISHED 1569-c.1630

															S
Anon. 1630?														Cesala	Chlores
Kaerius 1628?		Acria+							Bordagut	Braza	Calamata				Chiores
Mercator 1595	A1e	Acria	Aesculpay Templ.		Asopus		Betonia		Bordagut		Chalamata	,	Cenepolis		Chiores
Camotti 1571?						Bardogso									Chiores
Ducheto 1570		Acria		Amicle			•					Cardami la			
Camocio 1569								Bonfonica	Bordogut		Calamata				Chiores
No. of Names	-	7	ო	4	5	9	7	∞	6	10	11	12	13	14	15

No. of Names	Camocio 1569	Ducheto 1570	Camotti 1571?	Mercator 1595	Kaerius 1628?	Anon. 1630?
16	Colochina		Colochina	Colochina+	Cholochina+	Colochina
17	Cumestra		Cumostra	Cumastra		Cumastra
18		Cyparissia		Cyparissia		
19				Durio	Duri	
20		Fauxasini				And the second s
21		Fenestre				
22	Gadepoga		Gadepoga	Gadepoga		
23	Gardechi					
24	Gristo		A THE PROPERTY OF THE PROPERTY	Cristo	Cristo	Cristo
25		Gythium		Gythium		
26				Hippole		
27				Iain	Iaina	
28				Iria	Iría	
29			Istechia	Hechia	Istechia	
30						Kutghyn
31					Laconia	

Anon 1630?			er yezhoù andada fan fan da an	Harry Age and a second		Maina				Ormoas	Pagana	Paganici		Pasaua	
Kaerius 1628?	Las									Ormons					
Mercator 1595	Las	Laso		Maganaco	Maganico	Maina	Milozaes	Mistra+	Oenae	Ormoas			Porama		
Camotti 1571?			Leuno(?)	Maganca		Maina				Ormoas					
Ducheto 1570															
Camocio 1569				Mogenaco	Moganico	Maina	Milofaes			Ormoas			Parama*		Perila
No. of Names	32	33	34	35	36	37	38	39	40	41	42	43	777	45	46

Anon. 1630?										Sarasona		To the control of the		
Kaerius 1628?		Pidana	Pf.lo				C. Rapano							Tenara
Mercator 1595	Pharis Laconica		P110	Pirrhichna	Prestea	Psamala	C. Rapan	Sapico	Sarans	Sarasona	Sidarico			
Camotti 1571?					Prestea		C. Rapa			Sarasona				
Ducheto 1570	Phere											Sparta		Tenarum
Camocio 1569					Prestea		C. Rapano			Sarasona	Sidariso*		Tama	
No. of Names	47	48	49	50	.51	52	53	54	55	56	57	58	59	09

No. of Names	Camocio 1569	Ducheto 1570	Camotti 1571?	Mercator 1595	Kaerius 1628?	Anon. 1630?
61				Teuthronia		
62				The	Therapne	
63	Vasilocamo			Vasilocamo		
79						Vasolapus
65				Vidana		
99	Virobo		Verobo	Virobo	Virobo	
29	Vitilo		Vitilo	Vitulo		Vituio
89	Vondomia*					
69				Vtilo	Vtilo	Utilo
70	Zarnata			Zornata		
7.1				Zeleniza		

+ Symbol on the map suggesting greater relative importance.

equivalent of an ancient settlement.

^{*} Settlement identified by Giacomo di Castaldi as the modern (1560)

Anon., Morea una cum adjacentibus Insulis, Graecia et universo Archiplago, (? Augsburg ? 1630)

- G.F. Cammocio, Morea Peninsula, (Venice, 1569).
- G.F. Camotti, Morea (? Venice, ? 1571)
- C. Ducheto, Peloponnesus nunc Morea (? 1570).
- P. Kaerius, Morea olim Peloponnesus (Amsterdam, ? 1628).
- G. Mercator, Morea olim Peloponnesus, (? Duisberg, ? 1595).

APPENDIX III: IDENTIFICATIONS OF SETTLEMENT NAMES IN SOUTH-CENTRAL PELOPONNISOS,

c. 1618

(names arranged in the order of the Roman alphabet)

Index No.	Settlement Name c. 1618	Pacifico c.1700 (from Sauerwein)	Commission Scientifique c.1830	Modern
First List (1)	(1)			
~	Afungia di Cholochitia			
8	Agia Varnara		? H. Varvara	ochoblos Balla Balla
ന	Alica	Alica	Alika	ANIK
7	Altomira		Altomira	Αλτομιρά
S	Amigdalia			
9	Arachova		Arakhova	Apaxopa
7	Ardouvista		Androuvista	, X (50 &
60	Azomati			
S	Bragia di Nicliani		?? Tigani	
10	Brichi	Brichi	Briki	MTPIKIOV
11	Brinda da Gacizza		Brianda	
12	Castagna		Kastania	Kastavea

13	Castro di Cholochitia		? Katronaes	? Korawa,
14	Castro di Zarnate	Zarnata Portezza	Fort de Zarnate	~
15	Cavallo nel Purcho	Cauallo	Kavalos	(Ka 3axou) TT (201X0)
16	Celisti di Ardouvista		Selistia	Σελίτσης
17	Ceria di Ardouvista		Tseria	Toesia
18	Challouna di Nicliani	? Colgni	Kaloni	Καλονιοί
19	Chambros			
20	Charea	Carea	Karya	Καρέα
21	Charia	Carles	Keria	Xazia
22	Charignia	Carignù	Karinia	Kazovia
23	Chariopoli	Cariopolí	Karioupolis	Καρυούπολις
74	Charouda Chardiani		Karouda	Χαρούδα
25	Chaspotegni	? Chospontinus		
26	Chelefa	Chielefa Fortezza	Kelepha	Κενεφ«
27	Chiparizzo		M. Kyparissi	Κυπάρισσος
28	Chipoula	Cipoula	Kipoula	Kytożyk
29	Chita di Nicliani	Giata	Kita	Kítta / Koíta
		•	•	-

30	Chorio-Chorogona		? Korogonianika	; Koro Yoviavika
31	Chosea		? Khosiari	Y Wasa Solow
32	Chotrafi			Kotokplox
33	Chouloumia	Calumia	Kouloumi	Kahogui/Kouhoú niov
34	Chounon di Condestauli	Cumo	Kouno	Koūvos
35	Chouschougni		Kouskouni	(Kourkouvior) Ewiged
36	Chrio-nero	Crionerò	Kryo-Nero	K 200VÉ 210V
37	Cocha di Mantinea		? Mandinia	MIKON MANTÍVEIA
38	Crimignmo di Ardouvista			
39	Cutifariagni		Koutiphari	Oaka mai
05	Dolus, detto Chorio	Dolus da basso	Dolous	Δολοί
41	Dombra		Tumbra	(TOMEDO) Tropity, HAIOS
42	Dri di Condestauli	Dri	Dry	مر ۵
43	Driali di Cholochitia	Driuli	Driali	Δρυαλί
77	Drialo	Drialo	Dryalos	Δρυκλον
45	Erimo		Erimo	Erymos
94	Fichouriani		?? Phrankoulia	י איאליסאאמיץ:

47	Fourgniaten			? POUKANUTO
87	Gacizza-Megali		Megali-Gaïtsa	Xwpa Taitows
67	Gardinichia		Vardanitsa	Tans Evitora
20	Gianizza	Gianizza grande	Gianitsa	(FINVITON) EANIOX WOOD
51	Gianizza, Paglia		? Gianitzanika	(FLAVITONVINA) PAPAL
52	Giorgicio-Poulo di Cholochitia			
53	Gliaci-nova		Gliata	ר א ומידא
54	Gliaci-nova grande			
55	Gnifi	Niffi	Nymphí	"Egw Nougy
99	Gognia di Cholochitia		Gonea	ľ w véa
27	Griciagni			
28	Guio-chori		? Xerokhori	"Egw Xwarov
59	Guio-chori di Chosma	? Cosma		
09	Hachia		Arkhia	
19	Haitofoglia di Cholochitia		? Phlomokhori	? Propoxworov
62	Ismia			
63	Kambos di Zernata	4	Kambos	Комито

79	Laia di Chourchougliani	Laia	Lagia	٨٤٦١٨
65	Langada		Langada	AdyKába
99	Langada, Apano	,	Langada	Aaykasa
29	Lazona di Plazza		Loutsana	(Voová) #181/
89	Lentigni	Leftigni		Λεπτίνι
69	Lozariagni			
70	Mantinea		Mandinia	Mezady Martiveia
7.1	Mavro-Iagni			
72	Milea, Apano)	1. 1. W		Mysea
73	Milea, Chato)	11.11.065		1 KKTW XWOOX
74	Mina	Mina	Mina	Miva
75	Mizopangi		Pangia	Tagkia
9/	Mos Sabatiani		Somatiani	Σωματιανά
7.1	Mulaeron Nicliani, Apano	Bularu alto	Apano Boularious	"AVW MTTOUNAGOOL
78	Mulaeron, Chato	Bularu basso	Kato Boularious	Κάτω Μπουλαροί
19	Nericista di Gacizza		Nerinda	? Aratorikóv
80	Nikandria		Nikandro	N1Ka vSp 810V

81	Nio-chori		Neokhori	N20 X 6/2 10V
82	Nixovo di Ardouvista		Nikovos	2 Z a X a / 2106
83	Nomia di Nicliano	Nomia	Nomia	Νόμια
84	Nomiciagni		Nomitsa	Noperons
85	Orova di Zernata	Aroua	Horova	×5/000.
98	Ozia di Chorogou		Okhia	,0X1A
87	Palavista		Polovista	πολογείτσα
88	Panagia		?? Palaeo-Panagia	Talato Tavagía
68	Panayia di Gianizza		? Kato Gianitsa	
06	Panayia di Vacha			?P. Panayias
91	Pigadia		Pigadia	Tyzásia
92	Piondea	Biondes	Piondès	(TIGVTES) AKpoziaxion
93	Pirgon		Pyrgos	TT.0705
94	Pirgon	Pirgo	Pyrgos	Tocio porcos
95	Plazza grande		Platsa	Tratoa
96	Poliana di Sigo		Polyana	πολιανή
65	Poliazagni		Polyzaravo	No No Ko & Bos

86	Porastia di Rugusci			
66	Prastio		Prastion	Trocastion
100	Precista di Ardouvista		4.11.7.4	
101	San Constantino			
102	San Nicolo di Gardistia		P.H. Nikolaos	"Aquo NIKO'Xaog
103	Scala	Scala	Skala	$\Sigma \kappa_{lpha}^{\prime} \lambda_{lpha}$
104	Scalciotiagni		Skaltsotianika	ΣΚαλσοτιάνικα
105	Scurta di Cholochitia		? Skopa I.	
106	Selizza	Selisma	Selitsa	(Zéritor) Avw Bérya
107	Sella		? Selitsanika	2 (Zéhitou) Katu Bénga
108	Sidero-castro	Sidero Castro	Siderokastro	Σιδηρόκαστρου
109	Staurichious	Stabri	Stavri	Staupier
110	Stio Subatiani		? Somatiani	? Swammer wa
111	Tagariani di Plaza		Trakhéla	TOXXILA
112	Vacha		Vakho	$B_{\kappa} X_{\delta_{\zeta}}$
113	Vatas di Cholochitia	Vata	Vata	Báta
114	Vatia	Vatica	Vathia	Basera

13	Viglistico			
116	Villa della Madona di Chelmont		angless see a file	
117	Villa nuova in Gacizza		? Biliova-Gaïtsa	: KEUT, OU
118	Vitolo	Vitulo	Vytílo	Οϊτυλον
119	Voucholía di Cholochitia		? Loukadikha	? Nourabika
120	Zatena			
121	Zigarismeni	The state of the s		
122	Zimova		Tsimova	Αρεόπολις
123	Zinignani			
124	Zoloteria		Soloteri	Σολοτερίου
125	Zuchaglia	Zacag11a		Toikkkhiá
·				
Second List (2)	(2)			
126	Agia Paraschevi			
127	Agio Nicolo	San Nicola	H. Nikolaos	"ARIOS NIKÓDOS
128	Alevron		Alévrou	Άλευρου
129	Anavreti		Anavryti	'Avapouri
130	Anustazova	Anastasoua	Anastasova	Νέδουσα

131	Arna	Arua	Arna	"Asva
132	Bastan	Basta	Basta	(MTGOTR) TTARTÓ
E-1	Bisbardi	Bisbardi	Bisbardi	(voisopundium)
134	Calamata	Calamata Terra	Kalamata	Ka Yayuata
135	Castagnia	Castagna	Kastania	(Kaotavía) Kaotójselov
136	Chazziochono		Katsikova	Katolkosov
137	Chichalo-cori			
138	Chornousta	? Cumusa		? (Κουμουστά) πευταυλοί
139	Chrizzafa	Crisafà		Xpioago
140	Chuzuna	?? Curzaussi	Kourtchaouchi	
141	Chuzzava	Cuzzaua-Caruli	Koutsava Karveli	Kapseliou
142	Doracchi	Durachi	Dirakhi	Dyzyk X10v
143	Eulogiani			-
144	Gaiduro-Chori	Gaidurocori	Gaľdourokhori	Aproxwood.
145	Gliandina, Apano		**************************************	Mensmuch Kusunda
971	Gliandina, Chato)	י כודמסמודמ	t Nydonta	
147	Lapon			
				The state of the s

148	Londari detto Christianopoli	Leondari Fortezza	Leondari	Λεοντάριον
149	Longamicho	Longanigo	Longamicho	Λογκανίκος
150	Malcina	Malina		(Μαλιτοίνα) Μέλισσα
151	Manezzi			
152	Michrimani	Guzzucumani	Mkromani	MIKSOMORNY
153	Panagia	? Banagia-Loxa	? Panaiti	Pavairy
154	Prasinigo		Barsinikos	TEPZAUTKUKOL
155	Prizza	Brizza		(IT), TOK) TEXNESSYNOTY
156	Scala	Scala	Skála	Σκάλκ
157	Stenna		Sitenna	
158	Vlachozzotira	Villachiotti	Vlakhioti	BARKIUTY
159	Vriea	? Frizzala	? Fourtsala	
160	Zizzona		Sitsova	SOUGTIKVOI
161	Zotira	Sotira	Sotira	Zwijon

- Villagi da Calamata fin al Capo di Mayna et ritorno di Colochitia fin a Passava nel spradetto territorio ... (.... villages from Calamata as far as the Cape of Mayna, returning through Colochitia as far as Passava). freed •
- Villagi 38 chi sono vicini al Braccio di Mayna nelle montagne, sudditi al Turco, da are in the vicinity of Braccio di Mayna, in the mountains, under Turkish rule, from Passava et Bardugna castelli, fin a Londari detto Christianopoli (38 villages which Passava and Bardugna castles as far as Londari, called Christianopoli).
- 3. H = Haghios, a transliteration of $\alpha \gamma' \omega_{\gamma}$ ("saint")

M = monastery

P = pyrgos, a transliteration of $\pi \varphi_{\gamma} \gamma_{\gamma}$ ("tower").

APPENDIX V: SETTLEMENTS AND FORTRESSES LOCATED IN THE STUDY REGION AND MENTIONED IN MEDIEVAL DOCUMENTS - THE SOURCES FOR TABLE 14.1.

- Life of St. Philarete, cited by Za D.A. Zakythinos, <u>Le Despotate</u>
 grèc de Morée, Vol. 2 (Athens, 1953), p. 151.
- 2. List of dioceses in the Pelóponnisos, A. Bon, <u>Le Péloponnèse</u>
 byzantin jusqu'en 1204 (Paris, 1951), Appendix III.
- 3. List of dioceses in the Peloponnisos, Bon, ibib.
- Benedict of Peterborough, <u>Gesta Regis Ricardi</u>, edited by W. Stubbs, <u>Rerum Britannicarum Medii Aevi Scriptores</u>, No. 49 (London, 1867),
 Vol. 2, p. 199.
- 5. Chronicle of the Morea, see Appendix I.
- 6. Portolan of Petrus Vesconte, K. Kretschmer, <u>Die italienischen</u>

 <u>Portolane des Mittelalters</u>, Veröffentlichungen des Instituts für Meerskunde und des geographischen Instituts an der Universität Berlin, 13 (Berlin, 1909, reprinted 1962), p. 635.
- Venetian petitions to the Emperor of the Romans, 1319-20,
 G.M. Thomas and R. Predelli, <u>Diplomatarium Veneto-Levantinum...</u>
 Vol. 1 (Venice, 1880), Document 72, p. 127.
- 8. Grant of 1336 to Nicolo Acciaiuoli, J. Longnon and P. Topping,

 Documents sur le régime des terres dans la Principauté de Morée

 au XIV siècle (Paris and The Hague, 1969), Document I, pp. 19-29.
- 9. Catalan Portolan, Kretschmer, op. cit., p. 635; A.E. Nordenskiöld,

 Periplus. An Essay on the Early History of Charts and Sailing

 Directions, trans. by F.A. Bather (Stockholm, 1897), pp. 25-44.
- 10. List of feus drawn up for Prince Amedee of Savoy, A. Bon,

 La Morée franque. Recherches historiques, topographiques et

 archéologiques sur la Principauté d'Achaïe (1205-1430), (Paris,

 1969), Appendix A; R. Rodd, The Princes of Achaïa (London, 1907),

 Vol. 2, pp. 294-96.

- 11. F. Bonnardot and A. Longnon (eds), Le saint voyage de

 Jherusalem du Seigneur d'Anglure, 1395 (Paris, 1878), p. 96.
- 12. R. Sabbadini, Ciriaco d'Ancona e la sus descrizione autografa
 del Peloponneso trasmessa da Leonardo Bottà, in <u>Classici e</u>

 <u>Umanisti da Codici Ambrosiani, Fontes Ambrosiani II,</u>

 (Florence 1933), pp. 25-30.
- 13. Venetian list of gains and losses, C. Hopf, Chroniques grecoromanes inédites ou peu connues (Berlin, 1873), pp. 202-03.
- 14. <u>Ibid.</u>, Dispatches of Jacomo Barbarigo, dated 24 August and 25 November, 1465, C.N. Sathas, <u>Documents inedits relatifs à l'histoire de la Grèce au moyen âge</u>, Vol. 6 (Paris, 1884), pp. 38, 65.
- 15. Venetian list, Hopf, op. cit., pp. 205-06.
- 16. Dichierasione di Tutta la Norce fata nel 1471, quoted by A. Buchon, Le Livre de la Conqueste de la Horés (Paris, 1840), pp. 64-65.
- 17. History of Stafano Magno, Sathas, op. cit., p. 227.
- 18. Portolan of Bernardino Rizo, Kratschmer, op. cit., p. 508.
- 19. Δ.Β. Βαγιακάκου, 'Αρχαία και μεσαιωνικά Τοπωυύμια 'εκ Μάνης,

 Τ, Τελοπουνησιακά, 2 (1957), ρ. 315.
- 20. Pertolans I, II and III in A. Delatte(ed.), Les Portulans grècs (Liege and Paris, 1947), pp. 57, 214-15, 268.

BIBLIOGRAPHY

The following list classifies material used in the thesis according to its relationship to different subjects and periods. The aim is to distinguish source material from methodological and background studies, and to separate primary sources and secondary material. The list does not include every citation made at the end of each chapter, but is confined to the more important items.

SETTLEMENT STUDY - GENERAL

- BAKER, A.R.H., Distance between farmstead and field in some nineteenth century French communes, Geography, 56 (1971), pp. 293-98.
- BIRCH, B.P., a. Farmstead settlement in the North American Corn Belt, Southampton Research Series in Geography, 3 (1966), pp. 25-57.
 - b. On a theory for rural settlement, Annals of the Association of American Geographers, 60 (1970), pp.610-14.
- BLOUET, W., Rural settlement in Malta, Geography, 56 (1971), pp. 112-18.
- BYLUND, E., Theoretical considerations regarding the distribution of settlement in inner North Sweden, <u>Geografiska Annaler</u>, 42 (1960), pp. 225-31.
- CHISHOLM, M., Rural Settlement and Land Use: An Essay in Location, (London, 1962).
- GROSSMAN, D., Do we have a theory for settlement geography?

 Professional Geographer, 23 (1971), pp. 197-203.
- HARVEY, D.W., Models of the evolution of spatial patterns in human geography, in CHORLEY, R.J. and HAGGETT, P., (eds.), Models in Geography, (London, 1967), pp. 549-608.
- HOUSTON, J.M., A Social Geography of Europe, (London, 1953).
- HUDSON, J.C., A location theory of rural settlement, Annals of the Association of American Geographers, 59 (1969), pp.365-81.
- HURNS, F.R., Town-building in History, (London, 1956).
- JORDAN, T.G., On the nature of settlement geography, <u>Professional</u>

 Geographer, 18 (1966), pp. 26-28.
- KOHN, C.F., Settlement geography, in JAMES, P.E. and JONES, C.F. (eds.), American Geography: Inventory and Prospect, (Association of American Geographers, 1954), pp. 125-41.

- OLSSON, G., Complementary models: a study of colonisation maps, Geografiska Annaler, 50B (1968), pp. 115-32.
- PRICE, E.T., Viterbo. Landscape of an Italian city, Annals of the Association of American Geographers. 54 (1964), pp. 242-75.
- STONE, K.H. a. The development of a focus for the geography of settlement, Economic Geography, 41 (1965), pp.346-55.
 - b. Multiple-scale classifications for rural settlement geography, Acta Geographica (Finland), 20 (1968), pp. 305-28.

SETTLEMENT STUDY - GREECE

- ANTONIADIS-BIBICOU, H., Villages désertés en Grèce un bilan provisoire, in ECOLE PRATIIQUE DES HAUTES ETUDES VIE SECTION, CENTRE DE RECHERCHES HISTORIQUES, LES HOMMES ET LA TERRE, X1, Villages Désertés et Histoire Economique X1e-XVIIIe Siècles, (Paris, 1965), pp. 343-417.
- BEUERMANN, A., a. Kalyvien-dörfer im Peloponnes, Ergebnisse und

 Probleme moderner geographischer Forschung. Hans Mortensen

 zu seinem 60. Geburtstag, (Bremen, 1954), pp.229-38.
 - b. Strukturwandel ländlicher Siedlungen in Griechenland, <u>Verhandlungen des Deutschen Geographentages</u>, <u>Hamburg 1955, Tagungsbericht und Wissenschaftliche Abhandlungen</u>, (Wiesbaden, 1957), pp. 409-15.
 - c. Typen ländlicher Siedlungen in Griechenland,
 Petermanns Geographische Mitteilungen, 100 (1956), pp.278-85.
- BOMBART, J.P., CHRISTRAS, A. AND GLEIZER, M., Margariti, village d'Epire, (Dijon, 1964).
- BURGEL, G., Pobia: Etude géographique d'un village crétois, Centre des Sciences Sociales, (Athens, 1965).

- COMMON, R., a. Some recent developments in Greece, <u>Tijdschrift</u>

 voor <u>Economische en Sociale Geografie</u>, 49 (1958), pp.253-66.
- COMMON, R., & b. PRENTICE, A., Some observations on the lowland

 Macedonian village, Tijdschrift voor Economische en Sociale

 Geografie, 47 (1956), pp. 223-27.
- CREUTZBURG, N., Die landlichen Siedlungen in der insel Kreta, in KLUTE, F. (ed.), Die landlichen Siedlungen in verschiedenen Klimazonen (Breslau, 1933), pp. 55-66.
- CVIJIĆ, J., <u>La Péninsule balkanique: géographie humaine</u>, (Paris, 1918).
- EDEN, W.A., The plan of Mesta, Chios, Annual of the British School at Athens, 45 (1950), pp. 16-20.
- HOPE, J., Lindos, Isle of Rhodes, Ekistics, 23 (1967), pp.246-51.
- KAYSER, B., a. Margariti (Epire). L'échec d'une colonisation spontanée, Etudes Rurales, 11 (1963), pp. 65-101.
 - b. <u>Géographie humaine de la Grèce</u>, Centre des Sciences Sociales, (Athens, 1964).
- ΛΑΜΠΑΚΙΣ, Α. καὶ ΜΠΟΥΡΑΣ, Χ., Τὰ μεσαιωνικά Χωρία
 Τῆς Χῖου, in ΜΙΧΕΛΗΣ, Π.Α. (ed.), Τὸ Έλληνικὸ
 Λαϊκο Σπίτι (Athens, 1960).
- LEE SMITH, D., RICH, P., AND MORGAN, J., A study of the architecture of Lindos, Rhodes, Ekistics, 22 (1966), pp. 182-87.
- LEHMANN, H., a. Zur Flüchtlingsiedlung in Griechenland, Zeitschrift der Gesellschaft für Erdkunde zu Berlin, 1929, pp.113-22.
 - b. Die Siedlungsräume ostkretas im Wandel zeiten, Geographische Zeitschrift, 45 (1939), pp. 212-28.
- KIRSTEN, E., Die griechische polis als historisch-geographisches Problem des Mittelmeerräumes, Colloquium Geographicum (Bonn), 5 (1956), pp. 15-25.
- MENDRAS, H., <u>Six Villages d'Epire</u>, Raports de Missions No. 11 (UNESCO, 1961).

- MICHAELIDES, C.E., Hydra: A Greek Island Town Its Growth and Form, Chicago, 1968).
- MIGLIORINI, E., Richerche antropogeografiche eseguite nelle isole italiane dell'Egeo, <u>Viaggi di Studio, Promossi dalla</u>

 Fundazione Volta, 4 (Reale Accadamia d'Italia, 1938), pp. 5-27.
- MITARACHI, P.J. AND ERNEST, R., Mykonos and Patmos, <u>Perspecta:</u>
 The Yale Architectural Journal, 6 (1960), pp. 78-87.
- OGILVIE, A.G., Physiography and settlements in southern

 Macedonia, Geographical Review, 11 (1921), pp. 172-87.
- PAPAS, C., <u>Urbanisme et architecture populaire dans les</u>
 Cyclades, (Paris, 1957).
- PAPENHAUSEN, F., Die Neubesiedlung Griechenlands, Zeitschrift der Gesellschaft für Erdkunde zu Berlin, 1933, pp. 34-51.
- SCHULTZE, J.H., a. Greek colonisation in Thrace and Macedonia,
 Scottish Geographical Magazine, 53 (1937), pp.81-89.
 - b. <u>Neugriechenland</u>. <u>Eine Landeskunde Ostmakedoniens</u> und Westthrakiens mit besonderer Berücksichtigung der Geomorphologie, Kolonistensidelung und Wirtschaftsgeographie, (Gotha, 1937).
- SIBBLES, P.L., Ano Vlasia; analyse van een bergdorp in de Peloponnesos, <u>Tijdschrift van het Koninklijk Nederlandsch</u>

 Aardrijkskundig Genootschap, 77 (1960), pp. 177-200.
- SIBBLES, P.L. AND SCHRIJVERS, A.J., Vryena; analyse van een bergdorp in Midden-Griekenland, <u>Tijdschrift van het Koninklijk</u>

 Nederlandsch Aardrijkskundig Genootschap, 79 (1962), pp.315-32.
- SMITH, A.C., The Architecture of Chios, edited by P.P. Argenti, (London, 1962).
- TYRWHITT, J., Order out of Chios, Architectural Review, 139 (1966), pp. 475-78.

- VOOYS, A.C. DE, AND PIKET, J.J.C., A geographical analysis of two villages in the Peloponnisos, <u>Tijdschrift van het Koninklijk</u>

 <u>Nederlandsch Aardrijkskundig Genootschap</u>, 75 (1958), pp. 30-55.
- WACE, A. AND DAWKINS, R.M., The towns and houses of the Archipelago, Burlington Magazine, 26 (1914-15), pp. 99-107.
- WAGSTAFF, J.M., a. House types as an index in settlement study:

 a case study from Greece, <u>Transactions of the Institute of</u>

 British Geographers, 37 (1965), pp. 69-75.
 - b. Anonymous settlement planning in the Máni Peninsula, <u>Ekistics</u>, 22 (1966), pp. 196-98.
 - c. Rural Settlements in the Helos Plain, Lakonia,

 Greece. Final Report to N.A.T.O., (unpublished manuscript,

 1967).
 - d. The study of Greek rural settlements: a review of the literature, Erdkunde, 23 (1969), pp. 306-17.

METHODOLOGY

- BAKER, A.R.H., a. A note on the retrogressive and retrospective approaches in historical geography, Erdkunde, 22 (1968), pp. 243-44.
 - b. Etablissements ruraux sur la marge sud-ouest du bassin parisien dans les premieres années du XIXe siècle: description analytique des types, Norois, 60 (1968), pp. 481-92.
- BAKER, A.R.H., HAMSHERE, J.D. AND LANGTON, J. (eds.), Geographical

 Interpretations of Historical Sources, (Newton Abbot, 1970).
- BERRY, B.J.L., City size distributions and economic development,

 Economic Development and Cultural Change, 9 (1961),

 pp. 263-82.
- BLOCH, M., The Historian's Craft, (Manchester, 1954).
- BRUNHES, J., Human Geography, abridged by M. Jean-Brunhes Delmarre

- and P. Deffontaines, translated by E.F. Row, (London, 1952).
- CLARK, P.J., Groupings in spatial distributions, Science, 123 (1956), pp. 373-4.
- CLARK, P.J., AND EVANS, F.C., Distance to nearest neighbour as a measure of spatial relationships in populations, <u>Ecology</u>, 35 (1954), pp. 443-53.
- COLE, J.P. AND KING, C.A.M., Quantitative Geography. Techniques and Theories in Geography, (London, 1968).
- DACEY, M.F., Analysis of central place and point patterns by a nearest neighbour method, in NORBORG, K. (ed.), <u>Proceedings</u> of the IGU Symposium in Urban Geography, Lund 1960, (Lund, 1962), pp. 55-75.
- DEMANGEON, A., a. La géographie de l'habitat rural, Annales de Géographie, 36 (1927), pp. 1-23, 97-114.
 - b. Problemes de Géographie humaine, (Paris, 1942).
- FISCHER, D.H., <u>Historians' Fallacies. Towards a Logic of</u>

 <u>Historical Thought</u>, (London, 1971).
- GULLEY, J.L.M., The retrospective approach in historical geography, <u>Erdkunde</u>, 15 (1961), pp. 306-309.
- HARVEY, D.W., Geographical processes and the analysis of point patterns: testing models of diffusion by quadrat sampling,

 Transactions of the Institute of British Geographers, 40

 (1966), pp. 81-96.
- HOCKETT, H.C., The Critical Method in Historical Research and Writing, (New York, 1955).
- KING, L.K., A quantitative expression of the patterns of urban settlements in selected areas of the United States,

 Lijdscrift voor Economische en Sociale Geografie, 53

 (1962), pp. 1-7.
- KITSON CLARK, G., The Critical Historian, (London, 1967).

- LEONTIEF, W., When should history be written backwards?,

 Economic History Review, n.s., 16 (1963), pp. 1-8.
- PINDER, D.A. AND WITHERICK, M.E., The principles, practice and pitfalls of nearest neighbour analysis, <u>Geography</u>, 57 (1972), pp. 277-88.
- PRINCE, H.C., Real, imagined and abstract worlds of the past,
 in BOARD, C., CHORLEY, R.J., HAGGETT, P. AND STODDART, D.R.

 (eds.), Progress in Geography. International Reviews
 of Current Research, Vol. 3, (London, 1971), pp.1-86.
- RAISZ, E. AND HENRY, J., An Average slope map of southern New England, Geographical Review, 27 (1937), pp. 467-72, quoted by MONKHOUSE, F.J. AND WILKINSON, H.R., Maps and Diagrams: Their Compilation and Construction, (1st ed., London, 1952), pp. 78-82.
- THOM, R., Topological models in Biology, <u>Topology</u>, 8 (1969), pp. 313-35.
- VIDAL DE LA BLACHE, P., <u>Principles of Human Geography</u>, edited by E. de Martonne, translated by M.T. Bingham, (London, 1926, reprinted 1959).
- ZEEMAN, E.C., The Geometry of Catastrophe, <u>Times Literary</u>

 <u>Supplement</u>, 10 December, 1971.

THE MANI

- A full bibliography down to 1958 was given by D.W. Vagiakakos in his article on the Mani in H Meyali Ellynky

 Eykukl offaiblia, Tomas I', Teuxos 159, (Athens, c.1960), p.619.

 The following publications have appeared since Vagiakakos compiled his list or are frequently referred to in the text of the thesis.
- ANDROMEDAS, J.N., The Inner Maniat Community Type: A Study of the Local Community's Articulation with Society,

(Columbia University Ph.D., 1962; University Microfilms, Ann Arbor, 1967).

ΒΑΓΙΑΚΑΚΟΥ, Δ. Β., α. Ο : Πύρχοι της Μώνης, Πελοπονυμοιακή
Τρυτοχρονία, 3 (1959), pp. 41-45.

b. O Imporque Evantion Tres Mangs, (Athens, 1961)

c. Mávy Kai Zákuvog, Actes du IIIª

Congress Panionien, (Athens, 1967).

d. Or Mariatal Tys Koporkys, 2 wols, (Athens, 1940).

ΔΗΜΗΤΡΑΚΟΥ-ΜΕΣΙΣΚΛΗ, Δ.Β., <u>Οι Νυκλιάνοι</u>, (Athens, 1949).

ΔΡΑΝΔΑΚΗ, Ν.Β., <u>Βυζαντιναὶ Τοιχοχοαβιάι της Μέσα Μάνης</u> (Athens, 1964).

FERMOR, P.L., a. Towers of the Mani, <u>Geographical Magazine</u>

31 (1958), pp. 386-95.

b. Mani: Travels in the Southern Peloponnese, (London, 1958).

ΓΡΙΤΞΟπογλογ, Τ. Α., Τὰ ὑρλωβίκα, (Athens, 1967).

ΖΕΡΛΕΝΙΗ, Τ., Οι Νυκλιάναι της Μάνης, 'Αθηνά, 28(1916),

Μ275-84.

KATZIKATOY, N., H BENTETTA 'EN MÁNYS, (Athens, 1933).
KOYTZINIEPEZ, A.T., Tapishik "EOJUK TÝS MÁNYS,

<u>NKOROKÁJÁ</u>, 19(1960), pp. 159-82.

METTIZIOY, Κ. Δ., α. Ποτέ και Τως "ετεσεν η Μάνη
είς Χείρας των Τούρκων, <u>Πελοπονησιακα</u>, 3-4 (1958-59),
11. 276-87.

b. H 'EKKAPSIK TWO MAVIATUR TOPS TOU, 'EVETOUS KATE TOS KAPUSIR TOU TOUDKO-EVETIKOU TOLEHOU, ('ICHOUGOICS TOU 1715), TELOTOURANTERA, 3-4 (1958-59), PP. 401-04.

MIRAMBEL, A., Blood vengeance (Maina) in southern Greece and among the Slavs, Byzantion, 16 (1942-43), pp.381-92.

PTEPHS, Γ, Τὸ ΕΙΚΟΟΙ Ένα καὶ ή Μάνη, Τελοπονογικκή

Τρωτοχρονία, 8(1464), 19. 36-39.

WAGSTAFF, J.M., a. An outline of the agriculture in the Mani region of southern Greece, Tijdschrift van het

- Koninklijk Nederlandsch Aardrijkskundig Genootschap, 82 (1965), pp. 270-80.
- b. House types as an index in settlement study:

 a case study from Greece, <u>Transactions of the Institute</u>

 of British Geographers, 37 (1965), pp. 69-75.
- c. The economy of the Mani peninsula (Greece) in the eighteenth century, <u>Balkan Studies</u>, 6 (1965), pp. 293-304.
- d. A small coastal town in southern Greece: its evolution and present condition, <u>Town Planning Review</u> 37 (1967), pp. 255-70.

SOCIO-ECONOMIC BACKGROUND

- BALFOUR, M.C., Malaria studies in Greece. Measurements of malaria, 1930-1933, American Journal of Tropical

 Medicine, 15 (1935), pp. 301-330.
- BAXEVANIS, J., Population, internal migration and urbanisation in Greece, Balkan Studies, 6 (1965), pp. 83-98.
- BLOCH, M., Feudal Society, translated by L.A. Morgan, (2nd ed., London, 1962).
- BLUM, R. and F., The Dangerous Hour: The Lore of Crisis and
 Mystery in Rural Greece, (London, 1970).
- BROWNING, R., Medieval and Modern Greek, (London, 1969).
- CAMPBELL, J.K., Honour, Family and Patronage. A Study of

 Institutions and Moral Values in a Greek Mountain

 Community, (Oxford, 1964).
- CARTER, F.W., Population movement to Greater Athens,

 <u>Tijdschrift voor Economische en Sociale Geografie</u>,

 59 (1968), pp. 100-105.
- COMITE INTERNATIONALE DE LA CROIX ROUGE, Ravitaillement de la Grèce pendant l'Occupation 1941-44 ..., (Athens, 1949).

- COMMON, R., Some recent developments in Greece, <u>Tijdschrift</u>

 voor Economische en Sociale Geografie, 49 (1958),

 pp. 253-66.
- EIBL-EIBESFELDT, I., Ethology. The Biology of Behaviour, (New York, 1970).
- FAIRCHILD, H.P., Greek Immigration to the United States,
 (New Haven, Connect., 1911).
- FRIEDL, E., Vasilika: A Village in Modern Greece, (New York, 1962).
- KAYSER, B., a. Geographie humaine de la Grèce, (Paris, 1964.
 - b. et alii, <u>L'emigration rurale et le pouvoir</u> d'attraction des villes en Grèce, (Paris, 1967).
- KRIESIS, A., Greek Town Building, (Athens, 1965).
- MEGAS, G.A., The Greek House, Its Evolution and Its Relation to the Houses of the Other Balkan Peoples, (Athens, 1951).
- MEIER, R.L., A Communications Theory of Urban Growth, (Cambridge, Mass., 1962).
- NIEUWENHUIJZE, C.A.O. VAN, The Near Eastern village: a profile,

 Middle East Journal, 19 (1962), pp. 295-308.
- OGILVIE, A.G., Population density in Greece, Geographical Journal, 101 (1943), pp. 251-601.
- PHOTIADES, J.D., The Position of the coffee house in the social structure of the Greek village, <u>Sociologia Ruralis</u>, 5 (1965), pp. 43-56.
- RAPOPORT, A., House Form and Culture, (Englewood Cliffs, N.J., 1969).
- RODD, R., The Customs and Lore of Modern Greece, (London, 1892).
- SALOUTAS, T., They Remember America, (Berkley, 1956).
- SANDERS, I.T., Rainbow in the Rock: The People of Rural Greece, (Cambridge, Mass., 1962).
- SCHNEIDER, J., Primitive warfare: a methodological note, American

 Sociological Review, 15 (1950), pp. 772-77, reprinted in

- Psychology, Sociology and Anthropology, (New York and London, 1964), pp. 275-83.
- VACALOPOULOS, A.E., La retraite des populations greques vers les régions eloignées et montagneuse pendant la domination turque, Balkan Studies, 4 (1963), pp. 263-76.
- VALOURAS, V.G., A reconstruction of the demographic history of modern Greece, Milbank Memorial Fund Quarterly, 38 (1960), pp. 114-37.
- VAYDA, A.P., Hypotheses about the functions of war, in FRIED,M.,

 HARRIS, M., and MURPHY, R. (eds.), War: The Anthropology

 of Armed Conflict and Aggression, American Museum of

 Natural History, (New York, 1967), pp. 85-91.
- WAGSTAFF, J.M., a. Traditional houses in modern Greece, Geography, 50 (1965), pp. 58-64.
 - b. Rural migration in Greece, Geography, 53 (1968), pp. 175-79.
- WARD, B., <u>Greek Regional Development</u>, Research Monograph

 Series, No. 4, Centre of Economic Research, (Athens, 1962).

GENERAL REFERENCE WORKS

- Biographie Universelle (Michaud), Ancienne et Moderne, (Nouvelle edition, Paris, 1843-65).
- ΔΗΜΗΤΡΑΚΟΥ, Δ., Μέγα Λεξικού τής Ελληνίκη Γλώσση, (Athens, 1953).
- Dictionary of National Biography, (London, 1885-1900).
- Dictionnaire de Biographie Française, (Paris, 1933-).
- FRESNE, CARLO DU, DOMINO DE CANGE, Glossarium de Scriptores

 Mediae et Infirmae Graecitatis, (Paris, 1688; repression
 du Collège de France, 1943).
- LIDDELL H.G. AND SCOTT, R., An Intermediate Greek-English
 Lexicon, (Oxford, 1889); 1955 impression).

- MOSTO, A. DA, L'Archivio di Stato di Venezia, indice generale,

 storico, descrittivo ed anditico, Bibiothèque des "Annales

 Institutorum", Vol. 5, Part 1, (Rome, 1937), Part 2,

 (Rome, 1940).
- Nouvelle Biographie Générale Depuis les Temps les plus seculés jusqu'a 1850-60, (Paris, 1857-66).
- PAULY-WISSOVA-KROLL, Real Encyclopadie der Klassischen Altertumswissenschaft, (Stuttgart, 1894-1963).
- PERVANOGLU, J., A Dictionary of the Greek and English Languages, (2nd ed., Athens, 1900).
- POLUMIN, O. AND HUXLEY, A., Flowers of the Mediterranean, (London, 1965).
- REYCHMAN, J. AND ZAJACZKOWSKI, A., Handbook of Ottoman-Turkish Diplomatics, (Paris and The Hague, 1968).
- THOMAS, D.H. AND CASE, L.M., (eds.), <u>Guide to the Diplomatic</u>

 Archives of Western Europe, (Philadelphia, 1959).
- WEBBER, S.H., Voyages and Travels in Greece, the Near East and

 Adjacent Regions made Previous to the Year 1801, Catalogues of the Gennadius Library II, The American School of Classical Studies at Athens, (Princeton, N.J., 1953).
- GENERAL SOURCE MATERIAL (used for more than one period)
- ADMIRALTY, HYDROGRAPHIC DEPARTMENT, a. Chart 1685, Venetico I. to Spetsai I., (London, 1902, corrections to 1952).
 - b. Chart 3372, Gulf of Lakonia, (London, 1902, corrections to 1960).
 - c. Mediterranean Pilot, Vol. 3, (8th ed., London 1957); Vol. 4, (8th ed., London, 1955).
- AMERICAN EMBASSY, A General Economic Map of Greece, 1:200,000, (Athens, 1947).

ANATTAINTHE, F., TO KOUTHPANAIKO TZAKI, (Kalamata, 1958).

BATIAKAKOY, A.B., a. Maviatai Eig Zakúvoou. H OIKOJEVEK NIKZWU-NIKZIKVWY, 1554-1458. 129 KVEKSOTA

Έρη ραβά του Αρχείου Ζακύνθου, <u>Επετήρίς</u> του Αρχείου Ίστορίας Ελληνικου Δικαίου, 5 (1954), pp. 1-96.

b. Αχαία και Μεσαιωνικά τοπωνύμια εκ Μάνης,

Τ, πελοπονήσιακα, 2 (1957), PP. 302-34.

- BAGROW, L., <u>History of Cartography</u>, revised and enlarged by R.A. Skelton, (London, 1964).
- BRITISH STAFF, Greece, 1:100,000, (1st ed., London, 1944),
 Sheets M7 Yithion and N7 Tainaron.
- KAYSER, B. AND THOMPSON, K., Economic and Social Atlas of Greece, (Athens, 1964).
- KOYTEAS, 5. B., IOOpikai TIAJai Six TAU TENOVIAU TAS

 MÁNAS (1774-1821), TENOTTONNÁ TAKA, 5 (1962), pp. 60 136.
- METEOROLOGICAL OFFICE, <u>Tables of Temperature</u>, <u>Relative Humidity</u>

 and <u>Precipitation for the World</u>, <u>Part III</u>, <u>Europe and the</u>

 Atlantic Ocean North of 35° N., (London, 1958).
- MISTARDIS, G.G., Sur le drainage karstique dans les régions côtières de la Grèce méridionale, <u>Premier Congrès</u>

 <u>International de Spéléologie, Actes du Congrès</u>, Vol. 2, (Paris, 1953), pp. 247-50.
- NATIONAL STATISTICAL SERVICE OF GREECE, a. <u>Statistical Yearbooks</u> of Greece, (Athens, 1961-69).

b. Λεξικόν των Δημών, Κοινοτητών καὶ Συνοικισμών τῆς Ελλαδος, (Ατμεπς, 1961).

Οιτύλου κακ Δύμους, Κοινότητας και Οικισμούς Άπογραφαί 1920, 1926, 1940 και 1951.

(Population abstract prepared by the National Statistical Service of Greece for the author in 1962. Manuscript).

d. Population de la Grèce au recensement du 19 mars,

- 1961, (Athens, 1962).
 - e. Atlas of Greece, 1:200,000, (Athens, 1965).
- NAVAL INTELLIGENCE DIVISION, Geographical Handbooks, Greece, 3 Vols, London 1945).

NOYXAKH, I. E., 'Ελληνική Χωρογραφία, (Athens, 1901).

OIKONOMAKOY, π., Χαρτης της Μάνης, 1:100,000, (Athens, 1925).

PETROCHILOS, J., Sur l'histoire du Quarternaire de la presqu'île de Mani (Péloponnèse), Premier Congrès International de Spéléologie, Actes du Congrès, Vol. 2 (Paris, 1953), pp. 257-60.

- PHILIPPSON, A., a. Geologische Karte der Peloponnes, (Berlin, 1891).
 - b. Der Peloponnes, (Berlin, 1892).
 - c. Zur Vegetationskarte der Peloponnes,

 <u>Petermanns Geographische Meitteilungen</u>, 41 (1895),

 pp. 273-79 and map.
 - d. Das Klima Griechenlands, (Bonn, 1948).
- RENZ, C., LIATSIKAS, N., AND PARASEVAIDES, L. Geologic Map of Greece,
 Institute of Geology and Subsurface Research, (Athens, 1954).
- ΣΚΟΠΕΤΕΑ, Σ. Χ., Έγγραζα βιωτικά Έκ Δ. Μάνης

 Τῶν "ετων 1947-1430, Επετήρις των Αρχείον

 Τοτορίκι Ελληνικου Δικκαίου, 3 (1450), ρρ. 60-117.

 ZVORYKIN, I.A. AND SFORGIANNIS, G.R., Soil Map of the Peloponne-

SOURCES FOR THE EARLY NINETEENTH CENTURY

sus, 1:300,000, (Athens, 1958).

1. Primary Sources

BARBIE DU BOCAGE, J.D., <u>Carte de la Morée dresée et gravée au Dépôt Géneral de la Guerre par ordre du Government en 1807</u>, (Paris, 1814.

- BEAUFORT, F., Karamania, or, a Brief Description of the South

 Coast of Asia Minor and of the Remains of Antiquity,

 (London, 1817).
- BELLIN, LE SIEUR, <u>Description Géographique du Golfe de Venise</u> et de la <u>Morée</u>, (Paris, 1771).
- BLACK, W., Narrative of Cruises in the Mediterranean in H.M.S.

 Euryalus and Chanticleer during the Greek War of Independence, 1822-26, (Edinburgh, 1900).
- BORY DE SAINT-VINCENT, J.B.G.M., Relations du Voyage de la Commission Scientifique de Morée, 2 Vols., (Paris and Strasbourg, 1836).
- BRANSEN, J., Travels in Egypt, Syria, Cyprus, the Morea, Greece, Italy, Etc., 2 Vols., (London, 1820).
- CARNARVON, LORD, Reminiscences of Athens and Morea, (London, 1869).
- CHOISEUL-GOUFFRIER, LE COMTE DE, <u>Voyage Pittoresque de la Grèce</u>,

 2 Vols., (Paris, 1782 and 1809).
- COMMISSION SCIENTIFIQUE DE MOREE, a. Triangulation et Levées de la Grèce par l'Etat-major Français, 3 Vols., (Paris and Strasbourg, 1830-35).
 - b. <u>Relations du Voyage de la Commission Scientifique</u>
 <u>de Morée</u>, Vol. 2, Part 1, Géographie, (Paris and Strasbourg, 1834).
 - c. Atlas, le serie, Cartes (Paris and Strasbourg, 1835).
- ETON, W., A Survey of the Turkish Empire, (1st ed., London, 1798).
- FELIX DE BEAUJOUR, L.A., <u>Voyage Militaire dans l'Empire Othoman</u>, ou <u>Description de ses Frontières et de ses Principal es</u> <u>Defénses, soit Naturelles, soit Artificielles, 2 Vols.</u>, (Paris, 1829).
- GALT, J., a. <u>Voyages and Travels in the Years 1809, 1810 and</u>
 1811 ..., (London, 1812).

- b. Letters from the Levant, (London, 1813).
- GELL, W., a. Itinerary of the Morea, being a Description of the Routes of that Peninsula, (London, 1817).
 - b. Narrative of a Journey in the Morea, (London, 1823).
- ΚΟΥΓΕΑ, Σ. Β., Ιστορικαί Πηγαί διά την ηγεμονίαν της Μάνης (1774-1821), Πελοποννήσιακα, 5 (1962), pp. 60-136.
- LEAKE, W.M., a. Travels in the Morea, 3 Vols., (London, 1830).
 - b. Peloponnesiaca: A Supplement to the Travels in the Morea, (London, 1846).
- MARINDIN, G.E. (ed.), The Letters of John B.S. Morritt of Rokeby, (London, 1914).
- PITCAIRN JONES, C.G., Piracy in the Levant, 1827-28. Selected

 from the Papers of Admiral Sir Edward Codrington, Publications of the Navy Record Society, 72, (London, 1934.
- POUQUEVILLE, F.C.H.L., a. <u>Voyage en Morée à Constantinople</u>, 3 Vols., (Paris, 1805).
 - b. <u>Travels in the Morea, Etc.</u>, translated by Anne Plumpetre, (London, 1813).
- SCROFANI, X., Voyage en Grèce de Xavier Scrofani, Sicilien, fait

 en 1794-1795, translated from the Italian by J.P.C.Branvillain,

 3 Vols., (Paris and Strasbourg, 1801).
- SEVIN, L'ABBE, Lettres sur Constantinople, (Paris, 1802).
- STEPHANOPOLI, D. AND N., <u>Voyage de Dimo et Nicolo Stephanopoli en</u>

 <u>Grèce pendant les Années V et VI (1797-1798)</u>, 2 Vols.,

 (Paris, 1800).
- STRONG, F., Greece as a Kingdom, or A Statistical Description of that Country from the Arrival of King Otho, in 1833, down to the Present Time, (London, 1842).
- SWAN, C., Journal of a Voyage up the Mediterranean, Principally

 Among the Islands of the Archipelago, and in Asia Minor,

 2 Vols, (London, 1826).

WALPOLE, R. (ed.), Memoirs Relating to European and Asiatic

Turkey and Other Countries of the East; Cited from

Manuscript Journals, (2nd ed., London, 1818).

- ANDREADES, A., L'administration financière de la Grèce sous la domination turque, <u>Révue des Etudes Greques</u>, 14 (1902), pp. 4-471.
- BAΓΙΑΚΑΚΟΥ, Δ.Β., α. Συμβολή είς τα περί Νίκλων-Νικλιώνων τῆς Μάνης, <u>'Αθηνά</u>, 53 (1947), πρ. 147-94. b. <u>O 'Ιμβρα</u>ήμ Έναντίον τῆς Μάνης, (Athens, 1961).
- BEES, N.A., Morea, in HOUTSMA, M.T., WENSINCK, A.J., LEVIPROVENÇAL, E., GIBB, H.A.R., AND HEFFENING, W., (eds.),
 The Encyclopedia of Islam, Vol. 3 (1st ed., Leiden and
 London, 1936), pp. 566-77.
- BOΓΑΤΖΙΔΙΣ, Ι., περ. ΝΙΚλικνων καὶ βαμέγιων της Μάνης, <u>Άθηνα</u>, 18 (1906), pp. 59-62.
- BOTSFORD, J.B., English Society in the Eighteenth Century as
 Influenced from Overseas, (New York, 1924).
- BROWN, W.C., a. The Popularity of English Travel Books about the Near East, 1775-1825, Philological Quarterly, 15 (1936), pp. 70-80.
 - b. Byron and the English Interest in the Near East, Studies in Philology, 34 (1937), pp. 55-64.
- CARABINI, F. AND VAFA, C., Quelques Faits historiques et veriters concernans la Province de Maina à dater du 1769, (Athens, 1859).
- COPPOLANI, J., Le Réseau Urbain de la France, (Paris, 1959).
- CUST, L. AND COLVIN, S., <u>History of the Society of the Dilettanti</u>, (London, 1898; reissued 1914).
- FEDDEN, R., English Travellers in the Near East, Writers and their Work No.97, (London, 1958).

- FRAZEE, C.A., The Orthodox Church and Independent Greece, 1821-1852, (Cambridge, 1969).
- HARRIS, S., Some notes on field systems in Mediterranean lands and in the Atlantic coastlands of south-western Europe, Reports of the Commission on Types of Rural Settlement, International Geographical Union, 1 (1928), pp. 81-96.
- GORDAN, T., History of the Greek Revolution, 2 Vols., (Edinburgh and London, 1832).
- ΚΑΦΙΛΗ, Γ., 'Η Βαρδύνια καὶ Ο΄ Τουρκο βαρδουνιῶίες, Τελοπονησιακα, 2 (1957), pp. 91-140.
- OMONT, H., Missions Archéologiques françaises en Orient aux XVIIe et XVIIIe siècles, (Paris, 1902).
- OSBORNE, J.M., Travel literature and the rise of Neo-hellenism in England, <u>Bulletin of the New York Public Library</u>, 67 (1963), pp. 279-300.
- PINCHEMEL, P., Géographie de la France, Vol. 2, (Paris, 1964).
- ΠογΛογ, Ι.Χ., Πολιτικά τής Πελοπουήσου 'Σπι "ΟΘωνος, <u>Πελοποννήσιακα</u>, 2(1957), pp. 33-57.
- RUSHDY, M.R., English Travellers in Egypt During the Reign of

 Mohammad Ali (1805-1847), (unpublished Ph.D. thesis, Leeds,

 1950).
- RUNCIMAN, S., The Great Church in Captivity. A Study of the

 Patriarchate of Constantinople from the Eve of the Turkish

 Conquest to the Greek War of Independence, (Cambridge, 1968).
- SEMPLE, E.C., Pirate Coasts of the Mediterranean Sea, Geographical

 Review, 2 (1916), pp. 134-51; reprinted in The Geography

 of the Mediterranean Region: Its Relation to Ancient

 History, (London, 1932), pp. 638-59.
- STOIANOVICH, T., Land tenure and related sectors of the Balkan economy, 1600-1800, Journal of Economic History, 13 (1953),

- pp. 398-411.
- WOODHOUSE, C.M., The Greek War of Independence: Its Historical Setting, (London, 1952).
- SOURCES FOR THE TURKO-VENETIAN PERIODS, c.1460-1500, 1685-1821
- ANDREWS, K., Castles of the Morea, Gennadion Monograph IV,
 American School of Classical Studies at Athens,
 (Princeton, 1953).
- CRESSEY, E.S., <u>History of the Ottoman Turks; From the Beginning</u> of their Empire (2nd ed., London, 1878).
- FINLAY, G., A History of Greece from its Conquest by the Romans to the Present Time, B.C.146 to A.D. 1864, edited by N.F. Tozer, Vol. 5, Greece Under Othoman and Venetian Domination, A.D. 1453-1821, (Oxford, 1877).
- GIBB, H.A.R. AND BOWEN, H., <u>Islamic Society and the West</u>, Vol. 1,

 <u>Islamic Society in the Eighteenth Century</u>, Part 1,

 (London, 1950).
- HAMMER-FURGSTALL, J. VON, <u>Mistoire de l'Empire Ottoman, depuis</u>

 <u>son Origine jusqu'a nos jours</u>, traduit de l'Allemande par

 J.T. Hellert, Vols. 8, 12 and 13 (Paris, 1837, 1838 and

 1839).
- MILLER, W., a. Greece under the Turks, Westminster Review, 162 (1904), pp. 195-210, 304-20.
 - b. The Venetian Revival in Greece, 1684-1715, in Essays on the Latin Orient, (Cambridge, 1921), pp.403-27.
- PANTAZOPOULOS, N.J., Church and Law in the Balkan Peninsula during the Ottoman Rule, Institute for Blakan Studies, No.92, (Thessaloniki, 1967).
- STAVRIANCS, L.S., The Balkans since 1453, (London and New York, 1963).

- [421, (Athens, 1869).
- VISVISS, J., L'administration communale des Grecs pendants la domination turque, 1453-1953. Le Cinq-Centieme Anniversaire le la Prise de Constantinople, L'Hellenisme Contemporaine, (Athens, 1953), pp. 217-38.

SOURCES FOR THE LATE SEVENTEENTH CENTURY

1. Cartographic

- FER, F. DE, <u>La Morée et les Isles de Zante, Céfalonie, Ste.Maure</u>, Cerigo, ... (Paris, 1686).
- HOMMANO, J.B., Peloponnesus hodie Moreae Regnum ..., (Paris, 1707).
- KEULEN, J. VAN, <u>Nieuwe Pascaard van t Tweede Gedeelte der</u>

 <u>Middelansch Zee, Tusschen t' I. Malta en Alexandretta;</u>

 <u>Paskaart vande Zee-Kusten van Cilicia, Calabria, Graetia</u>

 en Morea; Archipelagusche Eylanden, (Nieuwenburg, 1717).
- RANDOLPH, B. Morea, olim Peloponnesus, (London, ?1686).
- SANSON, La Morée et les Iles de Zante, Céfalonie, Ste. Maure, Cerigo..., (Paris, 1692).
- VALK, G. AND L., Regnum Morae accuratissime divisum in Provincias
 ... una cum insulis Cephalonia, Zacyntho, Cythera, Aegina
 et Sidera, (Amsterdam, ? 1690).
- VISSCHER, N., <u>Peloponnesus</u>, hodie Morea ..., (Amsterdam, 1690).

 2. Non-Cartographic Sources
- ALBRIZZI, G., Esatta Notitia del Peloponneso, volgarmente

 Peninsola della Morea, (Venice, 1687).
- BRENT, J.T. (Ed.), Early voyages and travels in the Levant. II.

 Dr. Covel's diary, Hakluyt Society, 87 (1893), pp.99-287.
- BRUE, B., Journal de la Campagne que le Grand Vézir Ali Pacha à faite en 1715 pour la Conquête de la Morée, (Paris, 1870).

- Mores, Negropont, and the Maritime Places as far as

 Thessalonica. Englished by R.W., (London, 1687).
- EWLIYĀ ČELEBI, <u>Seyāhātnāme</u>, edited by K.R. Bilge, Books 7 and 8, (Istanbul, 1928).
- GRITTI, DOMENICO, Relationze dell'eccelmo signor Domenico Gritti, ritornato della carica di Sindico e Catasticator del regno di Moreas letta nel eccelmo Senato l'anno 1692, published in XINTHE, T., ENNOYMOI KÚSIOI EVUTÁKTAI TOO PINÍOTOSOS, PINÍOTOS PINÍOTOSOS, PINÍOTOSOS PINÍOTOS PINÍ
- GUILLETIERE, LE SIEUR DE LA, (GUILLET, A.G.), a. Athènes ancienne et moderne (Paris, 1675).
 - b. <u>Lacédémone ancienne et nouvelle</u>, 2 vols., (Paris, 1676).
- HAMMER, J. VON, Narrative of Travels in Europe, Asia and Africa
 in the Seventeenth Century by Evliyá Efendi, Oriental
 Translation Fund of Great Britain and Ireland, Vol. 1
 (London, 1834), Vol. 2 (London, 1850).
- IORGA, N., Chronique de l'Expedition des Turcs en Morée 1715, attribuée à Constantin Dioikétès, (Bucarest, 1913).
- ΚΟΥΓΕΑΣ, Σ.Β., 'Αναβορά των Βοιτυλιωτών πρός την Ενετικήν Δημοκρατίαν (7 'Απριλίου 1640), Τελοπουνήσιακα, 2 (1957), pp. 426-30.
- MEPT Z10Y, K. Δ. α. Ποτέ καὶ τιώς 'επεσευ ή Μάνη 'εις
 Χείρας τῶυ Τούρκων το 1715, Πελοπουνήσιακα,
 3-4 (1956-59), PP. 276-87.
 - b. H 'εκκλησις τωυ Μανικτών Πρός Τοῦς
 Ένετοῦς κατὰ τῷυ Κῆρυξιν τοῦ Τουρκο- Ένετικοῦ Πολέμου ('Ικνονάριος του '715), Πελοποννήσικκα,
 3-4 (1954-59), ρρ. 401-04.

- PACIFICO, A., <u>Breve Descrizzione Corografica del Peloponneso</u>
 o'Morea, (Venice, 1700 and 1704).
- RANDOLPH, B., The Present State of the Morea, called anciently Peloponnesus, (3rd ed., London, 1689).
- REPORTS of Venetian Governors and Officials in the Morea, 1690-1715:
 - ΛΑΜΠΡΟΥ, Σ. Π., Δελτίον της Ιστορικής καὶ Έρυολογικής Έτσιρείας της Έλλαδος, νοι. 2 (1885-89), pp. 282-317; νοι. 5 (1900), pp. 228-51, 425-47, 533-67, 605-706, 715-823.
- SPON, J., Voyage d'Italie, de Dalmatie, de Grèce, et du Levant fait en 1675 et 1676, 2 Vols., (2nd ed., Amsterdam, 1679).
- WHEELER, G., A Journey into Greece, by G.W. Esq., in Company with Dr. Spon of Lyons, (London, 1682).

- ARMAO, E., Vincenzo Coronelli; cenni sull' uomo la sua vita, (Florence, 1944).
- BARKAN, Ö.L., Daftar-i Khákáni, in LEWIS, B., PELLART, C., AND SCHACHT, J., (eds), The Encyclopedia of Islam, Vol. 2 (new ed., Leiden and London, 1965), pp. 81-83.
- BROWN, H.F., The commercial and fiscal policy of the Venetian Republic, in his <u>Studies in the History of Venice</u>, Vol. 1, (London, 1907), pp. 335-66.
- ΚΡΙΜΠΑ, Θ. Δ., Ή Ένετοκρατουμένη Πελοπόννησος, 1685-1715, <u>Πελοποννήσιακα</u>, 1 (1956), pp. 315-46; 2 (1957), pp. 247-55.
- MORDTMANN, J.H. (DUDA, H.W.), Ewliya Čelebi, in LEWIS, B.,

 PELLART, C. AND SCHACHT, J. (eds.), The Encyclopedia of

 Islam, Vol. 2, (new ed., Leiden and London, 1965),

 pp. 717-20.

- PALLIS, A., In the Days of the Janissaries: Old Turkish Life

 as Depicted in the 'Travel-book' of Evliyá Chelebí,

 (London, 1951).
- PATON, J.M., Chapters on Medieval and Renaissance Visitors to

 Greek Lands, Gennadion Monographs III, The American School

 of Classical Studies at Athens (Princeton, 1951).
- RANKE, L. VON, Die Venezianer in Morea 1685-1715, <u>Historisch</u> politische Zeitschrift (Berlin), 2 (1833-36), pp.405-502.
- SAUERWEIN, F., Das Siedlungsbild der Peloponnes um das Jahr 1700, Erdkunde, 23 (1969), pp. 237-44.
- SPINI, G., Italy after the Thirty Years War, in CARSTEN, F.L. (ed.), The Ascendancy of France, 1648-88, The New Cambridge Modern History, Vol. 5, (Cambridge, 1961), pp. 458-73.

SOURCES FOR THE EARLY SEVENTEENTH CENTURY

1. Cartographic

ANON., Morea una cum Adjacentibus Insulis, Graecia et Universo Archipelago, (? Augsburg, ? 1630).

CAMOCIO, G.F., Morea Peninsula, (Venice, 1569).

CAMOTTI, G.F., Morea, (Venice, ? 1571).

DUCHETO, C., Peloponnesus nunc Morea, (? 1570).

KAERIUS, P., Morea olim Peloponnesus, (Amsterdam, ? 1628).

MERCATOR, G., Morea olim Peloponnesus, (? Duisberg, 1595).

2. Non-cartographic Sources

- BERNARD, G., <u>Description</u> de <u>la Mer Méditerranée</u>, (Amsterdam, 1599).
- BLAEU, W.J., The Light of Navigation, (Amsterdam, 1612).
- BUCHON, J.A., <u>Nouvelles Recherches Historiques sur la Principauté</u>

 Française de Morée et ses Hautes Baronies à la Suite de la Quatrième Croisade, Vol. 1 (Paris, 1843).

XIVREY, J.B. DE, Mémoire sur une tentative d'insurrection dans la Magne de 1612 à 1619 au nom du duc de Nevers comme hériter des droits des Paléologues, <u>Mémoires de l'Academie des Inscriptions et Belles-Lettres</u>, 15 (1841), pp. 304-335.

- ARGENTI, P.P., The Expedition of the Florentines to Chios, 1599, (London, 1934).
- AYMARD, M., Venise, Raguse et le Commerce du Blé pendant la Seconde Moitié du XVIe Siècle, (Paris, 1966).
- BARKAN, O.L., a. Essai sur les données statistiques de régistres de recensement dans l'Empire Ottoman aux XVe et XVIe siècles, Journal of the Economic and Social History of the Orient, 1 (1957), pp. 9-36.
 - b. Research on the Ottoman Fiscal Surveys, in COOK, M.A. (ed.), Studies in the Economic History of the Middle East from the Rise of Islam to the Present Day, (London, 1970), pp. 163-71.
- BRADFORD, E., The Great Siege: Malta 1565, (London, 1961).
- BRAUDEL, F., <u>La Méditerranée et le Monde méditerranéen à</u>

 l'Epoque de Philippe II, 2 Vols., (2nd ed., Paris, 1966).
- BRUNSTEIN, P., Le commerce du fer à Venise au XVe siècle, Studi Veneziant, 8 (1966), pp. 267-302.
- CLARK, G., The Barbary Corsairs in the seventeenth century, in his War and Society in the Seventeenth Century, (Cambridge, 1958), pp. 105-29.
- COPPOLANI, J., Cargèse Essai sur la géographie humaine d'un village corse, Revue de Géographie Alpine, 37 (1949), pp. 70-108.
- CRONE, G.R., Maps and their Makers, (3rd ed., London, 1966).
- EARLE, P., Corsairs of Malta and Barbary, (London, 1970).
- HUXLEY, A., Grey Eminence. A Study in Religion and Politics,

- First Collected Edition of Aldous Huxley's Works, (London, 1956).
- ΛΑΜΠΡΥΝΙΔΗ, Μ.Γ., Ο΄ Μέδικοι Έν Έλλαδι (ἰστορικὰ μελέτη), <u>Εθνικόν Ήμερολόγικον Κωνστ. β. Σκόκου,</u>
 15 (1900). pp. 356-66.
- ΛΑΣΚΑΡΙ, Μ. Θ., ΈΚΚλησεις του επισκόπου Μάνης Νεοφύτου Πρός τους Ίσπανους (1612-13) διὰ τῆν απελευθέρωσιν τῆς πελοποννήσου, <u>Έλληνιάκα</u>, 15 (1957), pp. 293-310.
 - LYBYER, A.H., The Government of the Ottoman Empire in the Time of Suleiman the Magnificent, (Cambridge, Mass., 1913).
 - NORDENSKIÖLD, A.E., Periplus. An Essay on the Early History of

 Charts and Sailing Directions, translated from the Swedish
 by F.A. Bather, (Stockholm, 1897).
- ΠΑΠΑΔΟΠΟΥΛΟΥ, Ξ. Ι., Η Κίνηση του Δούκα του Νεκέρ Καρόλου Γουβάγα για την άπελευθέρωση των Βαλκανικών Λαών (1603-1625), Institute for Balkan Studies, (Thessaloniki, 1966).
- PARRY, V.J., The Ottoman Empire, 1566-1617, in WERNHAM, R.B. (ed.), The Counter-Reformation and the Price Revolution, 1559-1610, The New Cambridge Modern History, Vol. 3, (Cambridge, 1968), pp. 347-76.
- RUSSELL, J.C., Late Medieval Balkan and Asia Minor Population,

 Journal of the Economic and Social History of the Orient,

 3 (1960), pp. 265-74.
- istics with a Descriptive List of those belonging to the

 Hispanic Society of America, Publications of the Hispanic
 Society of America, No. 82, (New York, 1911).
- SVORONOS, N., Portulans grècs, <u>Revue des Etudes Grecques</u>, 62 (1949), pp. 237-40.
- TENENTI, A., Piracy and the Decline of Venice, 1580-1615, translated by J. and B. Pullan, (London, 1967).

- TOZER, H.F., Vitylo and Cargese, <u>Journal of Hellenic Studies</u>, 3 (1881), pp. 354-60.
- VOLNEY, C.F., Travels through Syria and Egypt, 2 Vols., (London, 1787).
- VRETO, M.P., Tenative d'insurrection dans le Magne au XVIIe siècle, <u>Mélanges Néohelleniques</u>, (Athens, 1856), pp.11-20.
- WARE, T., Eustratios Argenti. A Study of the Greek Church under
 Turkish Rule, (Oxford, 1964).
- WEDGEWOOD, C.V., The Thirty Years War, (Pelican ed., Harmondsworth, 1957).
- WITTEK, P., The Rise of the Ottoman Empire, Royal Asiatic Society
 Monographs 23, (London, 1938).
- ZAKYTHINOS, D.A., Corsairs et Pirates dans les Mers grecques au

 Temps de la Domination turque, L'Hellenisme Contemporaine,

 (Athens, 1939).

SOURCES FOR THE MIDDLE AGES

1. Primary Sources

- ΒΑΓΙΑΚΑΚΟΥ, Δ. Β., α. 'Αρχαία καὶ μεσαιωνικά τοπωνύμια

 'εκ Μάνης, Ι. <u>Έλληνικά</u>, 15 (1957), ρρ. 203-19; 2. <u>Πελοποννήνακα</u>,
 2 (1957), ρρ. 302-334; 3. <u>Πελοποννήσιακα</u>, 5 (1962), ρρ. 161-79.

 6. Βυζαντινά 'ονόμα καὶ 'επώνυμα 'εκ Μάνης, <u>Πελοποννήνιακα</u>,
 3-4 (1954-59), ρρ. 185-221.

 c. <u>Μάνη (Μέσχ Μάνη). 'Ο Τόπος, δί Βυζαντινοι</u>
 Ναοί, δί πύργοι καὶ το Μοιρολόγοι, (Ατάκας, 1964).
- BENEDICT OF PETERBOROUGH, Gesta Regis Ricardi, edited by W.Stubbs,
 in Rerum Britannicarum Medii Aevi Scriptores, No. 49,
 (London, 1869), Vol. 2.
- BONNARDOT, Fr. AND LONGNON, A., (eds.), Le Saint Voyage de

 Jherusalem du Seigneur d'Anglure, 1395, (Paris, 1878).

 BUCHON, J.A., Le Livre de la Conqueste de Morée, (Paris, 1826).

- CHRYSOLORAS, DEMETRIUS, Eulogy of Manuel II, in ΛΑΜΠΡογ, Σ.Π.,

 Παλαιολόγεια καὶ Πελοποιογοιατά, Vol. 3, (Athens,

 1926), pp. 239-42.
- DOROTHEOS OF MONEMVASIA, Βιρλίου Ίστορικόν Περιέχον εν Συνόψει Διαφόρους καὶ Εξόχως Ίστορίας, (Venice, 1637).
- ΔΡΑΝΔΑΚΗ, Ν.Β., α. Βυζαντιναί τοιχος ραφίαι της Μέσα

 Μάνης, (Athens, 1964).

 b. 'Ανασπαφή είς το Τιγόνι της Μάνης, Πρακτικά της
 Έλληνικής 'Ανορωπολοτικής Εταιρείας, 1964, πρ. 121-35.

 EUSEBIUS, Ecclesiastic al History
- HALICER, J., The distribution of place-names, Geography, 22 (1937), pp. 199-204.
- GEORGACAS, D.J. AND MCDONALD, W.A., <u>Place Names of Southwest</u>
 Peloponnesus, (Minneapolis, 1967).
- HOPF, C., Chroniques Greco-Romanes Inédites ou Peu Connues, (Berlin, 1873).
- ISIDORE, THE METROPOLITAN, Letter to Manuel II, in REGEL, W.,

 Analecta Byzantino-russica, (St. Petersburg, 1891),

 pp. 65-66.
- JOINVILLE AND VILLEHARDOUIN, Chronicles of the Crusades, translated by M.R.B. Shaw, (Harmondsworth, 1963).
- KRETSCHMER, K., <u>Die italienischen Portolane des Mittelalters</u>,

 Veröffentlichungen des Instituts für Meerskunde und des

 Geog. Instituts an der Univ. Berlin, 13, (Berlin, 1909).
- LONGNON, J., Chronique de Moreé (1204-1303), (Paris, 1911).
- LONGNON, J. AND TOPPING, P., <u>Documents sur le Régime des Terres</u>

 dans la Principauté de Morée au XIVe Siècle, (Paris and
 The Hague, 1969).
- LURIER, H.E., Crusaders as Conquerors. The Chronicle of the Morea,
 translated from the Greek, with notes and introduction,
 (New York and London, 1964).
- MEGAW, H., Byzantine architecture in Mani, Annual of the British

- School at Athens, 33 (1932-33), pp. 137-62.
- MORAVCSIK, G. AND JENKINS, R.J.H., Constantine Porphyrogenitus,

 De Administrando Imperio, (Budapest, 1950).
- ORTHODOX LITURGY, Being the Divine Liturgy of S. John Chrysostom

 and S. Basil the Great, Fellowship of SS. Alban and Sergius,

 (London, 1939).
- PIRI RE'IS, a. ...Kitabi Bahriye ..., (Istanbul, 1935).
 - b. Bahrije. Das türkische Segelhandbuch für das

 Mittelandische Meer vom Jahre 1521, edited by P. Kahle,

 Vol. 1, (Berlin and Leipzig, 1926).
- PROCOPIUS, The Histories
- SABBADI, R., Ciriaco d'Ancona e la sua descrizione autografa del Peloponneso trasmessa a Leonardo Botta, in his <u>Classici e Umanisti da Codici Ambrosiani</u>, <u>Fontes Ambrosiani II</u>, (Florence, 1933), pp. 23-30.
- SATHAS. C.N., <u>Documents Inédits Relatifs à l'Histoire de la Grèce</u>
 au Moyen Age, 9 vols., (Paris, 1880-1890).
- SCHMITT, J., (ed.), The Chronicle of the Morea, (London, 1904).
- TAFEL, G.L.F. AND THOMAS, G.M., <u>Urkunden zur älteren Handels-und</u>

 <u>Staatsgeschichte der Republik Venedig mit besonderer</u>

 <u>Beziehung auf Byzanz und die Levante</u>, Fontes Rerum

 Austriacarum, II, Diplomataria et Acta, XII-XIV, 3 vols,

 (Vienna, 1856-57).
- THIRIET, F., Régestes des Délibérations du Sénat de Venise concernant la Romanie, 3 Vols., (Paris, 1958-59).
- THOMAS, G.M. AND PREDELLI, R., <u>Diplomatarium Veneto-Levantinum</u>, 2 Vols., (Venice, 1880-89).
- TOPPING, P.W., Feudal Institutions as Revealed in the Assises of Romania, (Philadelphia, 1949).
- TRAQUAIR, R., a. Laconia I. Medieval fortresses, Annual of the

 British School at Athens, 12 (1905-06), pp. 259-76.

- b. Laconia III. The churches of western Mani,

 Annual of the British School at Athens, 15 (1908-09),

 pp. 177-213.
- VASMER, M., <u>Die Slaven in Griechenland</u>, Abhandlungen der Preussischen Akademie der Wissenschaften. Philosphischhistorische Klasse, Nr. 12 (Berlin, 1941).
- VITA SANCTI NICONIS METANOITAE MONACHI, translated by J. Sirmondo, in MARTENE, E. AND DURAND, U., Veterum Scriptorum et

 Monumentum ... Amplissima Collectio, Vol. 6, (Paris, 1729), pp. 838-86.
- ZIO, D. AND VENETI, F., Opera nova chiamata portolano laqual narra tutte le terre e porti de Levante cominciando a Venetia, andado per tutta la Schiavonia fin a Corfu co tutta la Grecia, la Morea ..., (? 1520).

- Ashmole, B., Cyriac of Ancona, <u>Proceedings of the British Academy</u>, 45, (1959), pp. 25-41.
- BARKER, J.M., Manuel II Palaeologus (1391-1425): A Study in Late

 Byzantine Statesmanship, (New Brunswick, 1969).
- BABINGER, F., Notes on Cyriac of Ancona and some of his friends,

 Journal of the Warburg and Courtould Institutes, 25 (1962),

 pp. 321-23.
- BON, A. a. Le Péloponnèse byzantin jusqu'en 1204, (Paris, 1951).

 b. La Morée franque. Recherches historiques, topographiques et archéologiques sur la Principauté d'Achaie

 (1205-1430), (Paris, 1969).
- BRADFORD, E. The Great Betrayal. Constantinople 1204, (London, 1967).
- CHAMBERS, D.S., The Imperial Age of Venice, 1380-1580, (London, 1970).
- CHARANIS, P., a. On the social structure of the later Roman Empire,

- Bysantion, 17 (1946), pp. 39-57.
- b. Piracy in the Aegean during the reign of Michael
 VIII Palaeologus, Annuaire de l'Institute de Philologie et
 d'Histoire Orientales et Slaves, 10 (1950), pp. 127-36.
- c. The Chronicle of Monemvasia and the question of Slavonic settlements in Greece, <u>Dumbarton Oaks Papers</u>, 5 (1950), pp. 141-66.
- d. On the social structure and economic organisation of the Byzantine Empire in the thirteenth century and later, Byzantino-slavica, 12 (1951), pp. 94-153.
- Byzantine Empire, Comparative Studies in Society and History, 3 (1961), pp. 140-54.
- f. Observations on the History of Greece during the early Middle Ages, <u>Balkan Studies</u>, 11 (1970), pp. 1-34.
- DAVIES, J.G., The Origin and Development of Early Christian Church Architecture, (London, 1952).
- DUCELLIER, A., Les Albanais dans les colonies vénitiennes au XVe siècle, <u>Studi Veneziani</u>, 10 (1968), pp. 47-60.
- DUJČEV, I., Contribution à l'étude des praktikà, in <u>Etudes</u>

 <u>Historiques a l'Occasion du Ier Congrès International des</u>

 <u>Etudes Balkaniques et Sud-est Européennes Sofia</u>, (Sofia, 1966), Vol. 3, pp. 111-23.
- GEANAKOPLOS, D.J., Emperor Michael Palaeologus and the West, (Cambridge, Mass., 1959).
- GEORGACAS, D.J., The mediaeval names Melingi and Ezeritae of Slavic groups in the Peloponnese, <u>Byzantinische Zeitschrift</u>, 43 (1950). pp. 301-35.
- GILL, J., <u>Personalities of the Council of Florence</u>, (Blackwell, Oxford, 1964).
- GUILLAND, R., Etudes sur l'histoire administrative de l'empire

- byzantin: Le Despote, $\Delta zo \pi i \tau_{ij}$, Revue des Etudes Byzantines, 17 (1959), pp. 52-89.
- HROCHOVÁ, V., Le commerce vénitien et les changements dans l'importance des centres de commerce en Grèce du 13e au 15e siècles, <u>Studi Veneziani</u>, 9 (1967), pp. 3-34.
- HUSSEY, J.M., The Cambridge Medieval History, Vol. 4, The Byzantine Empire, 2 parts, (Cambridge, 1967).
- JACOBY, D., Phénomènes de démographie rurale à Byzance aux XIIIe, XIVe et XVe siècles, <u>Etudes Rurales</u>, 5-6 (1962-63), pp. 161-86.
- ΚΟΥΓΕΑ, Σ., Τέρι των Μελιγκών του Ταϋγέτου 'εξ Αθορμής 'Ανεκδότου Βυλαντινής Επιγραφής 'εκ Λακωνίας, (Athens, 1950).
- LAURENT, V. Isidore de Kiev et la Métropole de Monembasie, Revue des Etudes Byzantines, 17 (1957), pp. 150-57.
- LEMERLE, P., La chronique improprement dite de Monemvasie:

 le contente historique et légendaire, Revue des Etudes

 Byzantines, 21 (1963), pp. 8-11.
- LONGNON, J., a. L'Empire Latin de Constantinople et la Principauté de Morée, (Paris, 1949).
 - b. La vie rurale dans la Grèce franque, <u>Journal</u> des Savants, troisième centenaire 1665-1965, 1965, pp. 343-57.
- LOPEZ, R.S., Silk industry in the Byzantine Empire, Speculum, 20 (1945), pp. 1-42.
- LOSSKY, V., The Mystical Theology of the Eastern Church, (London, 1957).
- MARKL, O., Ortsnamen Griechenlands in 'frankischer' Zeit, (Vienna, 1966).
- MILLER, W., Latins in the Levant. A History of Frankish Greece (1204-1566), (Cambridge, 1908, reprinted 1964).

- OPAANDOY, A.K., Τὰ Παλάτια καὶ τὰ σπίτια τοῦ Μυστρά,
 Αρχείου τῶν Βυλαντινῶν Μημείων της Ελλάνος, 3 (1937), pp. 3-114.
- OSTROGORSKY, G.A., a. <u>Pour l'Histoire de la Feodalité</u>

 <u>Byzantine</u>, Corpus Bruxellense Histoirae Byzantinae,

 Subsidia 1, (Brussels, 1954).
 - b. Quelques Problèmes d'Histoire de la Paysannerie

 Byzantine, Corpus Bruxellense Historiae Byzantinae,

 Subsidia 2, (Brussels, 1956).
- PHILIPPSON, A., Zur ethnographie der Peloponnes, <u>Petermanns</u>

 <u>Geographische Mitteilungen</u>, 36 (1890), pp. 1-11, 33-46.
- RINVOLUCRI, M., Anatomy of a Church: Greek Orthodoxy Today, (London, 1966).
- RUNCIMAN, S., a. The Sicilian Vespers: A History of the

 Mediterranean World in the Later Thirteenth Century,

 (Penguin ed., Harmondsworth, 1961).
 - b. <u>Byzantine Civilisation</u>, (University Paperback, London, 1961).
 - c. The Fall of Constantinople, 1453, (Cambridge, 1965).
- SABBADINI, R., Ciriaco, in Enciclopedia Italiana, Vol. 10, (Rome, 1931), p. 438.
- SETTON, K.M., On the importance of land tenure and agrarian taxation in the Byzantine Empire, American Journal of Philology, 74 (1953), pp. 225-59.
- THIRIET, F., La Romanie Venitienne au Moyen Age. Le Developpement et l'Exploitation du Domaine Colonial Venitien (XIIe-XVe Siècles), (Paris, 1959).
- TOPPING, P.W., a. The formation of the Assises of Romania, Byzantion, 17 (1944-45), pp. 304-14.
 - b. Le régime agraire dans le Péloponnèse latin au XIVe siècle, <u>L'Hellenisme Contemporain</u>, 10 (1956) pp. 255-95.

TOZER, H.F., The Franks in the Peloponnese, <u>Journal of</u>
Hellenic Studies, 4 (1883), pp. 186-236.

VASILIEV, A.A., a. On the question of Byzantine feudalism, Byzantion, 8 (1933), pp. 584-604.

b. <u>History of the Byzantine Empire</u>, 324-1453,
2 Vols. (Madison and Milwaukee, 1964).

WARE, T., The Orthodox Church, (Harmondsworth, 1963).

ZAKYTHINOS, D.A., a. La population de la Moree byzantine,

L'Hellenisme Contemporain, 3 (1949), pp. 7-25, 107-32.

b. Le Despotat Grèc de Moree, Vol. 1 (Paris,

SOURCES FOR THE SECOND CENTURY

1932), Vol. 2, (Athens, 1953).

1. Ancient Authors

BAKER, E. (ed.), The Politics of Aristotle, (Oxford, 1948).

BURY, R.G., (ed.), Plato, The Laws, (London, 1926).

FRAZER, J.G., Pausanias's Description of Greece, 6 Wols., (London, 1898).

JONES, H.L. (ed.), The Geography of Strabo, (London, 1949).

KLAUSEN, R.H. (ed.), <u>Hecataei Milesii Fragmenta - Scylacis</u>
Caryandensis, (Berlin, 1831).

LIVY, The Histories

PLINY THE ELDER, Natural History

PLUTARCH, Lives

POLYBIUS, The Histories

PROCOPIUS, History of the Wars.

THEOPHRASTUS, On Plants

THUCYDIDES, The Peloponnesian War

VITRUVIUS, De Architectura

XENOPHON, Hellenica

2. Inscriptions and Coins

- BOECHHIUS, A. (ed.), Corpus Inscriptiones Graecarum, Vol. 1, (Berlin, 1828).
- COLLITZ, H. and BECHTEL, F. (eds.), Sammlung der griechischen

 Dialekt-Inscriften, Vol. 3, Part 2, (Berlin, 1900).
- DITTENBERGER, G. (ed.), <u>Inscriptiones Graecae</u>, Vol. 3, Part 1, (Berlin, 1878).
- GARDNER, P., Peloponnesus (excluding Corinth), in POOLE, R.S. (ed.), Catalogue of Greek Coins in the British Museum, (London, 1887).
- KOLBE, G. (ed.), <u>Inscriptiones Graecae</u>, Vol. 5, Part 1, (Berlin, 1913).
- ROEHL, H. (ed.) <u>Inscriptiones Graecae Antiquissimae</u>, (Berlin, 1882).

3. Archaeological Exploration

- FORSTER, E.S., a. South-western Laconia. Sites, Annual of the British School at Athens, 10 (1903-04), pp. 158-66.
 - b. Gythium and the north-west coast of the Laconian Gulf, Annual of the British School at Athens, 13 (1906-07), pp. 219-37.
- LE BAS, P. AND WADDINGTON, W.H., Voyage Archéologique en Grèce et en Asie Mineure fait par ordre du Government française pendants les années 1843 et 1844, Vol. 1, (Paris, 1847).
- LE BAS, P. AND LANDRON, <u>Voyage Archeologique en Grèce et en Asie</u>

 <u>Mineure. Architecture</u>, (Paris, 1847).
- Hellenique, 85 (1961), pp. 206-35.
 - b. Lakonika II, <u>Bulletin de Correspondance Hellenique</u>, 89 (1965), pp. 358-82.
- TRAQUAIR, R., Laconia II. Excavations at Sparta, 1906, No. 12.

 The Roman stoa and the late fortifications, Annual of the

- British School at Athens, 12 (1905-06), pp. 414-30.
- WOODWARD, A.M., Taenarum and southern Maina, Annual of the

 British School at Athens, 13 (1906-07), pp. 238-67.

- BAGROW, L., The origin of Ptolemy's "Geographica", Geografiska
 Annaler, 27 (1945), pp. 318-87.
- BRICE, W.C. and BALCI, A.N., The history of forestry in Turkey,

 Orman Fakultesi Dergisi, İstanbul Üniversitesi, 5 (1955),

 pp. 19-42.
- BROMHEAD, C.E.N., The early history of water supply, Geographical Journal, 99 (1942), pp. 142-51, 183-93.
- CAPPENTER, R., <u>Discontinuity in Greek Civilisation</u>, (Cambridge, 1966).
- CARY, M., The Geographic Background of Greek and Roman History, (Oxford, 1949).
- CARY, M. ET ALII, The Oxford Classical Dictionary, (Oxford, 1949).
- CHRIMES, K.M.T., Ancient Sparta: A Relexamination of the Evidence, (Manchester, 1949).
- COOK, S.A., ADCOCK, F.E. AND CHARLESWORTH, M.P., (eds.), The

 Cambridge Ancient History, Vols. 9, 9 and 10, (Cambridge, 1930-34).
- DAVIES, O., Roman Mines in Europe, (Oxford, 1935).
- DOWNIE, R.A., Frazer and the Golden Bough, (London, 1970).
- DOXIADIS, C.A., Ancient Greek settlements, <u>Ekistics</u>, 31 (1971), pp. 4-21.
- DUBOIS, M., Examen de la Geographie de Strabon. Etude Critique de la Methode et des Sources, (Paris, 1891).
- EHRENBURG, V., The Greek City, (Blackwell, Oxford, 1960).
- EISMA, D., Beach ridges near Selçuk, Turkey, <u>Tijdschrift van het</u>

 <u>Koniklijk Nederlandsch Aardrijskundig Genootschap</u>, 79

 (1962), pp. 234-46.

- FINLAY, G., Greece under the Romans, 146 B.C. to A.D. 716, (Oxford, 1844).
- FORREST, W.G., A History of Sparta, 950-192 B.C., (London, 1968).
- FOWLER, W.W., The City State of the Greeks and Romans, (reprint, London, 1910).
- FUSTEL DE COULANGES, N.D., The Ancient City: A Study in the

 Religion, Laws and Institutions of Greece and Rome, translated
 by W. Small, (Anchor Paperback, New York, 1956).
- ΓΙΑΝΝΑΚΟΠΟΥΛΟΥ, π.Ε., Το Γυθειου, (Athens, 1966).
- GLOTZ, G., The Greek City and its Institutions, translated by N. Mallinson, (London, 1929).
- GOMME, A.W., An Historical Commentary on Thucydides, Vols. 1-4, (Oxford, 1945-70).
- HARVEY, P. (ed.), The Oxford Companion to Classical Literature, (5th ed., Oxford, 1955).
- HOLLAND ROSE, J., The Mediterranean in the Ancient World, (Cambridge, 1933).
- JONES, A.H.M., a. The Greek City from Alexander to Justinian, (Oxford, 1940).
 - b. The Decline of the Ancient World, (London, 1966).
- KERENYI, C., The Gods of the Greeks, (2nd ed., Harmondsworth, 1958).
- KIEPERT, H., Atlas Antiquus, (12th ed., Berlin, 1898).
- LARSEN, J.A.O., a. <u>Greek Federal States: Their Institutions and</u>
 History, (Oxford, 1968).
 - b. Roman Greece, in FRANK, T. (ed.), An Economic

 History of Ancient Rome, Vol. 4, (Baltimore, 1938), pp.

 259-498.
- MITCHELL, H., Sparta, (Cambridge, 1964).
- MOMMSEN, T., The Provinces of the Roman Empire from Caesar to

 Diocletian, translated by W.P. Dickdon, 2 Vols., (London, 1909).
- NILSSON, M.P., Greek Folk Religion, (Harper Torchbooks,

- New York, 1961).
- ORMEROD, H.A., Piracy in the Ancient World: An Essay in Mediterranean History, (Liverpool, 1924).
- PARKE, H.W., Greek Mercenary Soldiers from the Earliest Times to the Battle of Ipsus, (London, 1933).
- POUNDS, N.J.G., The urbanisation of the classical world, Annals of the Association of American Geographers, 59 (1969), pp. 135-57.
- ROSE, H.T., Primitive Culture in Greece, (London, 1925).
- ROSTOVTZEFF, M.I., The Social and Economic History of the Hellenistic World, 3 Vols., (Oxford, 1941).
- RUSSELL, J.C., Late ancient and medieval population, <u>Transactions</u>
 of the American Philosphical Society, N.S., 48 (1958),
 Part 3.
- RUSSELL, R.J., Alluvial morphology of Anatolian rivers, Annals of the Association of American Geographers, 44 (1954), pp. 363-91.
- SCULLY, V., The Earth, the Temple and the Gods, (Yale, 1962).
- SEEBOHM, H.E., The Structure of Greek Tribal Society, (London, 1895).
- SEMPLE, E.C., The Geography of the Mediterranean Region: Its

 Relation to Ancient History, (London, 1932).
- SMITH, W., (ed.), <u>Dictionary of Greek and Roman Geography</u>, 2 Vols., (London, 1856).
- &TEVENSON, G.H., Roman Provincial Administration till the Age of the Antonines, (2nd ed., Blackwell, Oxford, 1949).
- TOYNBEE, A., Some Problems of Greek History, (Oxford, 1969).
- VITA-FINZI, C., The Mediterranean Valleys, Geological Changes in Historical Times, (Cambridge, 1969).
- WALBANK, F.W., A Historical Commentary on Polybius, 2 Wols., (Oxford, 1957-67).

WILLETTS, R.F., Ancient Crete: A Social History from Early

Times until the Roman Conquest, (London, 1965).

SOURCES FOR THE PREHISTORIC PERIOD

- ARCHAEOLOGY IN GREECE, ARCHAEOLOGICAL REPORTS, 1959-60 to
 1970-71, Society for the Promotion of Hellenic Studies
 and the British School of Archaeology at Athens, (London,
 1960-72).
- HOPE SIMPSON, R. AND LAZENBY, J.F., The Catalogue of Ships in Homer's ILIAD, (Oxford, 1970).
- FINLEY, M.I., a. The World of Odysseus, (Harmondsworth, 1962).

 b. Early Greece: The Bronze and Archaic Ages,

 (London, 1970).
- HUTCHINSON, R.W., Prehistoric Crete, (Harmondsworth, 1962).
- JELGERSMA, S., Sea-level changes during the last 10,000 years, in ROYAL METEOROLOGICAL SOCIETY, World Climate from 8000 to 0 B.C., (London, 1966), pp. 54-69.
- KIRK, G.S., Objective dating criteria in Homer, Museum

 Helveticum, 17 (1960), pp. 189-205, reprinted in KIRK, G.S.

 (ed.), The Language and Background of Homer, (Heffer,

 Cambridge, 1964), pp. 174-90.
- LORIMER, H.L., Homer and the Monuments, (London, 1950).
- PAGE, D.L., History and the Homeric Iliad, (Berkley, 1959).
- VERMULE, E., Greece in the Bronze Age, (Chicago, 1965).
- WARREN, P., Minoan Stone Vases, (Cambridge, 1969).
- WATERHOUSE, H. AND HOPE SIMPSON, R., Prehistoric Laconia,

 Annual of the British School at Athens, 55 (1960),

 pp. 67-108, 56 (1961), pp. 114-78.
- WEBSTER, T.B.L., From Mycenae to Homer, (London, 1958).