

## Map 41 Pisae

Compiled by W.V. Harris, 1994

### Introduction

Much about the ancient hydrography of this region remains unknown, especially with regard to the mouth of the R. Arno and the coastal areas both to the north (as far as the area of the Lago di Massaciuccoli), and to the south. To show that further research is still needed, it is enough to point out that one geological account of the coastline near Pisa (Pasquinucci 1988, 138; cf. 1992, 540; 1995, 211) simply neglects the fact that in antiquity the R. Auser debouched into the Arno and not into the sea (still so at the time of Rutilius Namatianus 1.565-67). Moreover a further theory has never been properly argued—to the effect that, while the Auser joined the Arno at Pisa, another river called the Auserculum (a name not attested) more or less took the line of the modern Serchio (Menchelli 1987, 498-99). Two other coastal areas with particularly problematic morphology are the marshy district to the east of Populonia and the Prilius L., though the latter has now been studied with care (FormIt Vetulonia). There are additional problems inland, for instance in the area of the Lago di Biéntina (east of Luca), where archaeological finds have been sufficient to suggest that the district was already quite well drained in Etruscan times (ASAT 79-82). Indeed Etruscan and Roman drainage works of quite uncertain extent contribute notably to the problems of making the map; there is universal agreement that such works must eventually have come to exist on a large scale (the Fossae Papirianae, for example), but it is seldom possible to define their degree of success. In addition, the courses of rivers have undoubtedly undergone numerous minor realignments since Roman times, and some of these changes may well have escaped notice.

This region teems with settlements whose names must be of ancient origin, even though there is a lack both of ancient testimony and of significant archaeological remains. Often, they may have been single *fundi*, in some cases large ones, with names such as Gragnano (from \*Granianum) (Pieri 1919; 1969). Some names are of the type Vico Pancellorum or Vicopisano. All these are omitted in the absence of specific evidence for their importance as settlements. Most Etruscan place names are unknown, and in consequence a number of purely or mainly Etruscan sites appear under their modern names.

The region was an important source of metal ores in the first millennium B.C.; from the beginning of the Principate, large quantities of marble were also quarried. These activities are necessarily represented here in a very selective fashion; it should be borne in mind that on Elba, for example, there were many other mining sites besides those indicated.

A surprising amount of uncertainty persists about the placement of both roads and road stations, and the destruction of ancient remains by the modern economy is now helping to ensure that some of these problems will never be solved. Unlike Kiepert (FOA XXIII) and Fraccaro (1937), this map does not mark stations mentioned in the itineraries if their whereabouts are substantially in doubt. Rather, such places appear only as Unlocated Toponyms. Road courses shown as certain may either still be visible on the ground (a rare circumstance in this region), or they may be known from other sources; road courses known within a range of several hundred metres are also shown as certain.

Detecting centuriation seems easier than it is: thus recent authors have claimed to discover it in areas of Italy where it has left no real traces (Luna, for example), if it ever existed at all. The map therefore marks only those areas where there is actual evidence of centuriation. There are also some debatable cases which have not been marked, especially in the lower Val d'Elsa and around Empoli (cf. Ciampoltrini 1981, 48-49).

## Directory

All place names are in Italy unless otherwise noted

### Abbreviations

ASAT	M. Torelli (ed.), <i>Atlante dei siti archeologici della Toscana</i> , Florence and Rome, 1992
EA Lucca	A. Custer and N. Nieri (eds.), <i>Edizione archeologica della Carta d'Italia al 100.000. Foglio 105, Lucca</i> , Florence, 1958
EA Pisa	A. Neppi Modona (ed.), <i>Edizione archeologica della Carta d'Italia al 100.000. Foglio 104, Pisa</i> , 2 <sup>nd</sup> ed., Florence, 1956
FormIt Pisae	A. Neppi Modona, <i>Pisae</i> (regio VII, vol. 1), Rome, 1953
FormIt Vetulonia	C.B. Curri, <i>Vetulonia I</i> (regio VII, vol. 5), Florence, 1978
GAL Piemonte	G. Massari (with G.C. Manasse and M.P. Rossignani), <i>Piemonte, Valle d'Aosta, Liguria, Lombardia</i> (Guide archeologiche Laterza), Bari and Rome, 1982
ItalPontif III	P.F. Kehr, <i>Italia Pontificia</i> , vol. 3, Berlin, 1908
TIR Mediolanum	Tabula Imperii Romani L32, <i>Mediolanum–Aventicum–Brigantium</i> , Rome, 1966

### Names

Grid	Name	Period	Modern Name / Location	Reference
C3	Ad Fines	L	at R. Fine	RE Pisae, col. 1766
E2	Ad Solaria	L	near Capalle	RE Solarium 1a
	Aethalia Ins. = Ilva Ins.			
D4	Alma fl.		Alma	RE 2
B1	<i>Ameilia</i>	CHR		GAL Piemonte 146-48
B1	Apuani	CH		Barigazzi 1991
B1	Arenaria? Ins.	RL	Palmarola	BTCGI XIII, 310-20
E5	Argentarius M.		Monte Argentario	RE 1
C4	'Argoos Limen'	ACHR	Portoferraio	RE 'Αργῶος λιμῆν
D2	Arnus fl.		Arno	RE 1
E5	Artemisia/ Dianium Ins.	RL	Giannutri	Bronson 1970, 205-207
E2	<i>Artimino</i>	ACH		ASAT 115-16
C1	'Aventia' fl.		Carrione	RE
C1	Auser fl.		Serchio	RE; Castagnoli 1948a; FormIt Pisae, xv
D3	<i>Belora</i>	A		Carafa 1993, 116
B1	Boacias § [Boron]	RL? L	Vezzano?	RE Boron 2; TIR Mediolanum 36
C2	<i>Bottino</i>	AR		EA Pisa 17
D3	Caecina fl.		Cecina	RE 1
E5	<i>Cala Maestra</i>	R		ASAT 590
B3	Caprasia Ins.		Capraia	RE Capraria 4
D3	<i>Castellina Marittima</i>	A		Carafa 1993, 116
C3	<i>Castiglioncello</i>	HR		ASAT 171-73
D3	<i>Cellole</i>	CH		ASAT 207
C1	<i>Colle delle Carbonaie</i>	H		ASAT 17
C1	<i>Colonnata</i>	R		Dolci 1980, 41-106
B5	Corsica/ Kyrnos Ins.		FRA	See Map 48
	Dianium Ins. = Artemisia Ins.			
E5	Domitiana	RL	Porto San Stefano?	ItMarit 499.8; ASAT 551
D3	Etruria			See Map 42
D4	Falesia	L	near Piombino	RE
C1	<i>Fantiscritti</i>	R		Dolci 1980, 114-19

Grid	Name	Period	Modern Name / Location	Reference
C2	Fossae Papirianae	RL	near Massarosa	EA Pisa 16
C1	Frigidus fl.	RL	Frigido	Banti 1937, 71
C1	Friniates	CHR	in Garfagnana until 187 B.C., later around Frignano	RE; Barigazzi 1991
D3	<i>La Fucinaia</i>	AH		ASAT 284-85
C4	Fufluna/ Populonium	AC/ ACHRL	Populonia and mine	BTCGI XIV, 199-249
E3	Gallunianum	L	Galognano	von Hessen 1977
A4	Gorgon Ins. = Urgo Ins. Gouola fl.		FRA	See Map 48
D2	Hellana	L	near Agliana	Lopes Pegna 1950, 426
D5	Igilium	HRL	settlement and villa at Giglio Porto	Bronson 1970, 204-205; BTCGI VIII, 123-32
D5	Igilium Ins.		Giglio	BTCGI VIII, 123-32
C4	Ilva/ Aethalia Ins.		Elba	RE
E5	Incitaria? Inferum Mare = Tyrrhenum Mare	L	in Cala Grande?	ItMarit 499.8
C2	<i>Isola del Migliarino</i>	ACHRL		Menchelli 1987
B1	<i>Isola del Tinetto</i>	L		GAL Piemonte 142
	Kyrnos Ins. = Corsica Ins.			
D4	<i>Lago dell' Accesa</i>	AC		Levi 1933
C1	<i>Levigliani</i>	HR?		ASAT 23
C1	Liguria			See Map 39
A4	Lourinon?		FRA	See Map 48
C2	Luca	HRL	Lucca	EA Lucca 30-35
C1	Luna	HRL	Luni	Frova 1973
B1	Macra fl.	RL	Magra	RE
A4	Mantinon		FRA	See Map 48
C4	<i>Marciana Marina</i>	ACH		Zecchini 1978, 198
B4	Mariana		FRA	See Map 48
C2	<i>Massaciuccoli</i>	H?R		Ciampoltrini 1994
D3	<i>Miemo</i>	A		Carafa 1993, 116
C4	<i>Monte Castello</i>	HR	Procchio, Elba	ASAT 411
C4	<i>Monte Serra</i>	ACH		Zecchini 1978, 198
D3	<i>Montecatini Val de Cécina</i>	A		Carafa 1993, 116
C5	Oglasa Ins.		Montecristo	RE
E5	<i>Orbetello</i>	ACH		ASAT 551
B4	Ouagon Akron		FRA	See Map 48
D2	<i>Pescia</i>	R		ASAT 72-74
D3	<i>La Pieve</i>	R		ASAT 278; Terrenato 1998, 99
C2	Pisae	CHRL	Pisa	FormIt Pisae; BTCGI XIII, 591-660
D2	Pistoriae	RL	Pistoia	ASAT 68-71
C4	Planasia Ins.	HRL	Pianosa	BTCGI XIII, 535-46
E4	<i>Poggio Pellicia</i>	AC		BTCGI XIV, 66-69
D2	<i>Ponte a Moriano</i>	CH		ASAT 72-73
C2	<i>Ponte alle Conche</i> Populonium = Fufluna	AR		EA Pisa 32-33
E5	Portus Herculis	HRL	Port' Ercole	RE Herculis portus 4
C2	Portus Pisanus?	RL	San Piero a Grado?	EA Pisa 65-66
B1	Portus Veneris	RL	Portovenere	BTCGI XIV, 288-300
E4	Prile fl.		Bruna	Pliny, <i>NH</i> 3.51

Grid	Name	Period	Modern Name / Location	Reference
D4	Prilius L.		Padule di Castiglione della Pescaia	FormIt Vetulonia 49
B1	Pullion	L	Pugliola, near Lerici	TIR Mediolanum 111
D4	<i>Puntone Vecchio</i>	R		ASAT 434
A3	Sacrum Pr.		FRA	See Map 48
D4	Salebro?	HRL	Castiglione della Pescaia	FormIt Vetulonia 172-81
C3	<i>S. Gaetano di Vada</i>	RL		Pasquinucci 1994
C4	<i>S. Giovanni</i>	ACH	Elba	Zecchini 1978, 198
E5	<i>S. Liberata</i>	R		ASAT 552
C2	<i>S. Maria del Giudice</i>	CH		ASAT 80
C2	<i>S. Rocchino</i>	ACHRL		Cristofani 1975; Paribeni 1990, 69-96
C3	<i>S. Vincenzino</i>	RL		ASAT 277
D4	<i>Scarlino</i>	CH		Francovich 1985, 14
C1	<i>Sponda</i>	R		Dolci 1980, 136-40
C1	Taberna Frigida	L	S. Leonardo in Frigido	De Santis Alvisi 1977, 4
E4	Telamon	ACHRL	Talamonaccio	ASAT 539-42
D2	<i>Tempagnano</i>	AC		Ciampoltrini 1990, 415
D3	<i>Terriccio</i>	A		Carafa 1993, 116
B2	Tyrrhenum/ Inferum Mare			See Map 1
E4	Umbro fl.		Ombrone	Nissen II, 308; RE
B3	Urgo/ Gorgon Ins.		Gorgona	RE Gorgon 1
C3	Vada Volaterrana	HRL	Vada	Pasquinucci 1987, 116-18
D2	Valvata	L	Cáscina?	RE
A4	Vanacini		FRA	See Map 48
D4	Vatl/ Vetulonia	ACH/ ACHRL	Vetulonia	FormIt Vetulonia
D3	Velathri/ Volaterrae Vetulonia = Vatl	ACH/ ACHRL	Volterra	ASAT 187-97
D2	Viae <i>Virle</i> Volaterrae = Velathri	AC	near Marliana	See Roads ASAT 67

### Aqueduct

Grid	Location	Period	Reference
C2	Pisae, at Caldaccoli	RL?	ASAT 49

### Bridges

Grid	Location	Period	Reference
C3	at Calignaia, NW Vada Volaterrana	L	Mosca 1995, 43
C3	near Antignano	L	Mosca 1995, 43
E4	Telamon	RL	Mosca 1995, 42-43

**Centuriation**

Grid	Location	Period	Reference
C2	SE Taberna Frigida	HR	De Santis Alvisi 1977
C2	Pisae	R	Fraccaro 1939
D2	Luca	HR	Castagnoli 1948a
E2	Ad Solaria	HR	Castagnoli 1948

**Quarry**

Grid	Location	Period	Material	Reference
C4	Ilva		Gr	Monaco 1976, 106-109; Lazzarini 1992, 64-65

**Monasteries**

Grid	Location	Period	Reference
B3	Caprasia	L	RE Capraria 4
B3	Urgo	L	RE Gorgon 1
C5	Oglasa	L	ItalPontif III, 276

**Roads**

Grid	Name / Itinerary	Period	Reference
C1	Via Aemilia Scauri/ Via Aurelia	HRL	Fentress 1984
D2	Via *Quinctia	HR?	Mosca 1992; 1994, 182-84
	Luca → Pistoriae → Florentia	RL	ItMiller 288-89
	N Castiglioncello	RL	Schmiedt 1972; FA 28-29 (1973-74), no. 8532
	N Luca	RL	ASAT 71
	N Pistoriae	RL	Rauty 1992
	W Velathri	HRL	ASAT 193

**Villa**

Grid	Location	Period	Reference
D5	Igilium Ins.	HR	Bronson 1970, 204-205

**Unlocated Toponyms**

<b>Name</b>	<b>Period</b>	<b>Probable Location</b>	<b>Reference</b>
Ad Herculem	RL	road station between Vada Volaterrana and Pisae	RE Herculem 1
Ad Martis Aquae Populoniae	L	road station near Montecatini settlement near Populonium	RE 2 Maggiani 1978
Barpana Ins.	R	in Tyrrhenian Sea	Pliny, <i>NH</i> 3.81
Birakellon	R	inland town in N Etruria	Ptol. 3.1.43
Bondelia	R	inland town in N Etruria	Ptol. 3.1.43
Boron	L	road station N Luna	TIR Mediolanum 38
Bullia	L	settlement between Vada Volaterrana and Pisae	GeogRav 4.32.15.8
Columbaria Ins.	RL	in Tyrrhenian Sea	RE
Hasta	L	road station between Telamon and R. Umbro	RE 4
Herakleous Hieron	R	on coast between Luna and Arnus fl.	Ptol. 3.1.4
In Portu	L	road station between Florentia and Pisae	ItMiller 293
Kelsilon	L	settlement between Vada Volaterrana and Pisae	RE
Manliana	RL	road station between Salebro? and Populonium	RE 1
Menaria Ins.	R	in Tyrrhenian Sea	Pliny, <i>NH</i> 3.81
Piscinae	L	road station between Ad Fines and Pisae	RE Piscinas
Scabris	RL	coastal settlement between Falesia and Umbro fl.	RE
Traianos Limen	R	between Populonium and Telamon	Ptol. 3.1.4
Triturrita	L	coastal settlement near Pisae	RE
Turrita	L	road station near Pisae	RE Triturrita
Velinae	L	road station on Via Aemilia Scauri	ItMiller 243
Venaria/ Oinarea Ins.	HR	in Tyrrhenian Sea	Harris 1971, 118
Vesidia fl.	RL	between Arnus and Umbro	ItMiller 384

**False Toponyms**

<b>Name</b>	<b>Reference</b>	<b>Comment</b>
Eryx	interpolated in Ptol. 3.1.3 (see TIR Mediolanum 64)	Lérici
Lingeus fl.	RE	in Liguria

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